



MP HUSKY™
CABLE TRAY & CABLE BUS



CABLE TRAY SYSTEMS

Engineered to Support Powerful Reputations

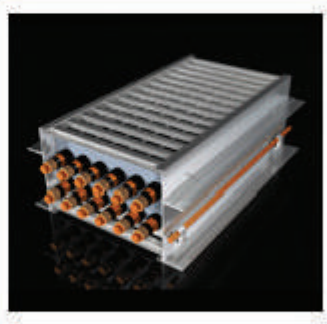
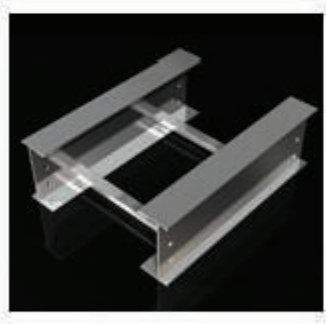
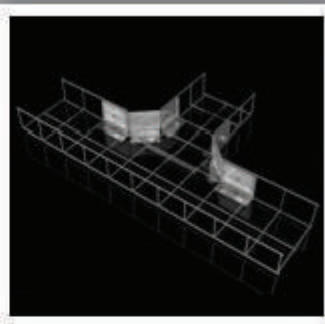


CABLE TRAY SYSTEMS

Engineered to Support Powerful Reputations

MP Husky was founded in 1952 and originally began operations as Husky Products. Over the following 50+ years of leadership and service, MP Husky has gone through several transformations and mergers, including Husky/Burndy and Metal Products, thus leading to what is today MP Husky—***America's leading manufacturer of Cable Tray and Cable Bus Power Distribution Systems.***

Throughout these changes, one thing has remained constant—the “Husky” drive to be the most reliable, highest quality, cost effective and innovative manufacturer of Cable Support Systems and Cable Bus Power Distribution Systems. We have an unsurpassed commitment to customer satisfaction and service, and we are eager to earn your loyalty and trust. As we continue to build and strengthen our partnerships with our customers, we look forward to the next years of service and support.



Aluminum Stainless Steel Galvannealed Fiberglass
Mill Galvanized Zinc Plate Hot Dipped

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Introduction

Decade after decade, for nearly 60 years, MP Husky continues to be the trusted and proven name in Cable Tray. With more systems installed in more industries and environments than any other manufacturer, you can rest assured MP Husky has the experience and capability to meet your most demanding requirements. As we begin another decade, MP Husky is stronger than ever and positioned to lead the industry with the latest innovations, eco-friendly products, and engineering and manufacturing technologies. Our focus continues to remain on providing unmatched customer support, investing in our people, protecting the environment, and providing the most technologically advanced and engineered systems. *MP Husky - Engineered to Support Powerful Reputations.*



Description and Selection

Cable Tray systems provide rigid structural support for cables in a variety of commercial and industrial applications. The basic styles of cable tray are: Ladder, Trough, Center Rail, Wire Basket and Channel. For a more comprehensive description of the construction and utilization of these types of tray, turn to Sections 2, 3, 4, 5, 6, 7, 8, 9, 14, 15 and 16 in this catalog.

Husky Ladder

Ladder consists of two longitudinal side members connected by individual traverse members. It is intended for use primarily for power cable or control cable support and excels in heavy loading and longer span applications. It is available in I-Beam, Flange-In and Flange-Out designs.



Husky Trough

Trough has a corrugated solid or ventilated bottom, 4" rung spacing or flat bottom pan design which is contained within longitudinal side members. It is especially appropriate for control and instrumentation cables.



Husky Channel

Channel is a one piece support with either ventilated or solid bottom sections. These sections are used with power cables, multiple control, or signal circuit cables.





Technical Information

Description and Selection

Husky Wire Basket

Techtray is a wire mesh cable tray system that utilizes high mechanical strength steel wire that is welded into a 2" x 2" grid system. Typically used to carry data communication and fiber optic cables, with a high degree of flexibility during installation due to capability and ease of fabricating fittings in the field.



Husky Pan Tray

Husky Way straight sections are one piece formed pan that provides a smooth flat bottom and a fill depth that is almost the same as the outside height of the tray. With a cover it provides complete protection of your cables. (Cover sold separately)

Husky EMI Tray is another option available to our customers (See Section 8 of this catalog).



Since Cable Tray is used in a wide variety of applications and under widely varying conditions, it is important that you gain an understanding of material specifications and structural design and apply that knowledge when selecting trays and specifying fittings, parts, and accessories. Some of the considerations are:

1. NEMA Class / CSA Class

Using the charts on the next page, determine the correct class of tray as it relates to your desired loading capacity per foot and support span. You will also need to know the weight of the cable and at what span it will be supported.

2. Material

MP Husky cable tray is available in aluminum, stainless steel and hot dip galvanized after fabrication or pre-galvanized steel, zinc plated, galvanized and fiberglass.

3. Tray Depth

A loading depth from 2" to 10" is available, this varies by tray type.

4. Tray Width

Standard widths are 6", 9", 12", 18", 24", 30" and 36". (Many other widths available on Wire Basket Tray)

5. Tray Type

Nine types of tray are available: Ladder, Trough, Channel, I-Beam, Center Spline, Fiberglass, Pan Tray, EMI and Wire Mesh. Ladder is available with either 6", 9", 12" or 18" rung spacing. Both Channel and Trough are available with either solid, non-ventilated or ventilated bottoms.

6. Radius of Fittings

All fittings normally come with a 12", 24" or 36" radius in styles and material to match any tray selection.





Technical Information

Description and Selection

NEMA LOAD CLASSIFICATION

The National Electrical Manufacturers Association (NEMA) has standardized the classification of cable tray based on the load to be carried per foot, and the distance between span supports. The load per foot should include not only the cable, but additional load factors for wind, snow, ice, etc. For more information on loading, see page 14 in this section.

NEMA CLASS	SUPPORT SPAN (feet/meters)	LOAD (lbs./ft.) / (kg/m)
5AA	5/1.5	25/37
5A	5/1.5	50/74
8AA	8/2.4	25/37
8A	8/2.4	50/74
8B	8/2.4	75/112
8C	8/2.4	100/149
10AA	10/3.0	25/37
10A	10/3.0	50/74
12AA	12/3.7	25/37
12A	12/3.7	50/74
12B	12/3.7	75/112
12C	12/3.7	100/149
16A	16/4.9	50/74
16B	16/4.9	75/112
20AA	20/6.0	25/37
20A	20/6.0	50/74
20B	20/6.0	75/112
20C	20/6.0	100/149

MP Husky manufactures Cable Tray in accordance with the latest NEMA Standards Publication VE1 and CSA Standard C22.2 No. 126.1



CSA LOAD CLASSIFICATION

Maximum Design Load for Maximum Associated Support Spacing				
Class	Design Load		Design Support Spacing	
	lbs./ft.	kg/m	Feet	Meters
A	25	37kg/m	10	3m
C	65	97kg/m	10	3m
D	120	179kg/m	10	3m
D	45	67kg/m	20	6m
E	200	299kg/m	10	3m
E	75	112kg/m	20	6m

MP Husky is a charter member of NEMA and the Cable Tray Institute.



Our Quality Policy

At MP Husky we are committed to producing only the highest quality products that meet or exceed our customers' expectations and requirements. Our goal is to achieve 100% customer satisfaction by delivering the best products and services on time and defect free. We will achieve this individually and corporately through tested and proven processes and controls, in our Quality System, and with a constant focus and effort on continuous improvement.

Item	Standards
MP Husky Quality Program	• ANSI / ASQC Q9001-2000 (ISO 9001 Compliant) • ASME NQA-1-2004 • ANSI N45.2
-Quality Assurance -Manufacturing Standards	ISO9001 National Electric Code, National Electrical Manufacturers Association VE-1, Canadian Standards Association, American Welding Society, American Society for Testing and Materials
Certification	CSA Certified UL Classified for use and an equipment ground conductor
Load Test Standards	NEMA VE-1/CSA Tray Standards
Cable Tray Standard	NEMA VE-2
Grounding	UL, CSA, NEC
Welding	• AWS D1.1 (American Welding Society Structural Welding Code: Steel) • AWS D1.3/D1.2: (American Welding Society Structural Welding Code: Aluminum) • AWS C1.1/ANSI American Welding Society Recommended Practices for Resistance Welding • ASME QW 100.1 American Society of Mechanical Engineers • Welding Procedure Specifications (Procedure Qualifications Record) • Certified Welding Inspector—QC1-96 (On Staff) • 100% of MP Husky welders are AWS Certified.
Nuclear	• Audited every three years since 1977 in conformance with 10 CFR50 Appendix B - Nuclear Standards (U.S. Nuclear Regulatory Commission)



Nuclear Program

MP Husky is audited in conformance with 10 CFR50 Appendix B - Nuclear Standards by the U.S. Nuclear Regulatory Commission. Appendix B to Part 50--Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants - This appendix establishes quality assurance requirements for the design, manufacture, construction, and operation of those structures, systems, and components. The pertinent requirements of this appendix apply to all activities affecting the safety related functions of those structures, systems, and components; these activities include designing, purchasing, fabricating, handling, shipping, storing, cleaning, erecting, installing, inspecting, testing, operating, maintaining, repairing, refueling, and modifying.



- We have and continue to serve over thirty Nuclear plants around the world.
- MP Husky has been compliant for over 45 years.
- We are the ONLY Cable Tray manufacturer to be 10CFR50 Appendix B compliant.
- We are audited every three years by members of the Nuclear Procurement Issues Committee using the Nuclear Procurement Issues Committee Audit Checklist (NUPIC Audit Checklist).
- The scope of the audit is to ensure that our Quality Assurance Program (QAP) is compliant with ANSI N45.2 and 10CFR50 Appendix B.

Nuclear Clients & Partners

Duke Energy
 Duquesne Light Company
 Florida Power & Light
 Cincinnati Gas & Electric Company
 Gulf States Utilities
 PA Power & Light Company
 Consumer Power Company
 Long Island Lighting Company
 Illinois Power Company
 WA Public Power Supply Systems
 Commission Fed De Electricidad Mex
 Carolina Power & Light Company
 Texas Utilities
 Florida Power & Light Company
 Iowa Electric & Power Company
 Louisiana Power & Light Company
 Northern States Power Company
 Taiwan Power Company
 Public Service Electric & Gas
 Puerto Rico Water Res.
 Pacific Gas & Electric

SCANA
 Southern California Edison
 Southern Nuclear (Southern Company)
 Wisconsin Public Service
 Detroit Edison
 Baltimore Gas & Electric Company
 National Power Corporation
 Public Service of New Hampshire
 Florida Power Corporation
 Cleveland Electric Illuminating
 Boston Edison Company
 Georgia Power Company
 Houston Lighting & Power Company
 Jersey Central Power & Light
 Mississippi Power & Light Company
 Ohio Edison Company
 Power Authority of State of New York
 Public Service of Indiana, Inc.
 Public Service Company of Oklahoma
 Tennessee Valley Authority (TVA)

Materials & Construction

Cable tray systems are commonly fabricated from a corrosion-resistant metal or from a metal with a corrosion-resistant finish. The selection of the proper material is essentially an economic consideration.

Every cable tray installation places requirements on the mechanical properties of the material from which it is fabricated. These properties influence the spacing frequency of supporting members, and the ease of installation. The selection of the material may also be dependent upon electrical (conductivity), physical (appearance), or chemical (corrosion resistance) properties, according to the demands of the specific installation. Although there are numerous metals available which could satisfy the basic requirements, certain wrought aluminum alloys and low carbon steels meet these requirements most economically.



Wrought Aluminum Alloys

Pure aluminum is soft and ductile. However, most commercial uses require greater strength than pure aluminum affords. This strength is achieved by the addition of other elements to produce alloys which singly, or in combination, impart strength to the metal. These alloys have been classified into seven categories according to their chemical composition, and have been given numerical designations for each series of alloys of 1000 through 7000 by the Aluminum Assoc. In addition to alloying the pure aluminum, further strengthening is possible by heat treating.

Heat-Treatable Alloys—the initial strength of alloys in this group is enhanced by the addition of such alloying elements as copper, magnesium, zinc and silicon, and are designated as 2000, 6000, and 7000 series. Since these alloys singly, or in various combinations, show increasing solid solubility in aluminum with increasing temperature, it is possible to subject them to thermal treatments which will impart pronounced strengthening.

Non-Heat-Treatable Alloys—the initial strength of alloys in this group depends upon the hardening effect of elements such as manganese, silicon, iron and magnesium, singly or in various combinations.

The non-heat treatable alloys are designated as 1000, 3000, 4000, and 5000 series. As these alloys are work-hardenable, further strengthening is made possible by various degrees of cold working, denoted by the "H" series of tempers. Alloys containing appreciable amounts of magnesium when supplied in strain-hardened tempers are usually given a final elevated temperature "stabilizing" to insure stability of properties.

In determining the proper aluminum alloy for structural applications, such as ventilated cable tray systems, the design engineer should recognize the advantages inherent in using alloys that are heat-treatable and of being able to fabricate the structure from materials possessing known minimum values of yield strength.

Cable tray products are most widely formed from the 6000 series alloys. Alloys in this group contain silicon and magnesium in approximate proportions to form magnesium silicide, thus making them capable of being heat-treated. Major alloys in this series are 6061 and 6063, which are among the most versatile of the heat-treatable alloys. Though not as strong as most 2000 or 7000 alloys, the magnesium-silicon (or magnesium silicide) alloys possess good formability and corrosion resistance.

Basic structural members of aluminum cable tray systems can be made from 6063-T6 aluminum extrusions, a material which economically meets the requirements of the majority of installations. The 6063-T6 alloy has adequate strength and good corrosion resistance. It is light weight, maintenance-free, and because of the non-magnetic properties of aluminum, keeps electrical losses to a minimum.

MP Husky manufactures Cable Tray in accordance with the latest edition of NEMA Standards Publication VE1 and CSA Standard C22.2 No. 126.1.



Materials & Construction

Steel

Steel cable trays are used principally in environments which are relatively free from corrosive attack. They are available with various types of corrosion-resistant finishes; usually hot-dip galvanized. The main advantages of using steel in cable tray fabrication are its high strength and low cost. Its disadvantages are increased structural weight, poor corrosion-resistance, and low electrical conductivity.

The idea that all steels are the same, except for chemical disposition is false. Carbon steels may be produced with chemical compositions (carbon, manganese, phosphorus, sulphur and silicon) within the specified limits of a given grade and still have characteristics that are widely dissimilar. Each grade and quality variation has a useful place, depending upon the end use and the methods of fabrication.

Basic components of steel cable trays are normally fabricated from either hot or cold rolled steel strips of commercial quality. Steels in this category are ASTM A-1011 CS Type B (formerly ASTM A-569) and ASTM A-1008 CS Type B (formerly A-366). Pre-galvanized steel conforms to ASTM A-653.

Stainless Steel

Today, hundreds of different alloy combinations exist for the endless variety of applications which utilize stainless and heat resisting steels. The primary elements added to obtain the various properties required in the steels include chromium, nickel, manganese, silicon, molybdenum, and the stabilizing elements of titanium columbium and tantalum.

Stainless steel contains at least 10 percent chromium, along with other elements to develop specific properties. Depending on the quality of the elements present in a stainless alloy, it will have a metallurgical structure which will be characteristic of the basic stainless steel groups. Metallurgists refer to these groups as the martensitic, ferritic, austenitic and precipitation hardening stainless steels. All standard austenitic alloys are given numbers in the "200" and "300" series, while the martensitic and ferritic alloys are numbered in the "400" series.

MP Husky offers cable trays and accessories in both the 304 and 316 series. These austenitic alloys are remarkable in several respects. Unlike the other two classes, they contain nickel in quantities from 4 to 22 percent, while the percentage of carbon is kept relatively low. When chromium is increased for improved corrosion resistance, nickel must also be increased to retain the austenitic structure.

304 stainless steel has chromium and nickel increased and carbon lowered to reduce carbide precipitation and increase corrosion resistance. Lowering the carbon content also makes welding easier.

316 stainless steel has molybdenum added to improve corrosion resistance and high temperature strength. The carbon content is also lowered to improve welding performance.



If your job calls for stainless steel, please contact the MP Husky factory for assistance in determining the correct type for your specific application.

Materials & Construction

Typical Applications include:

Type 304	Type 316
Beer Barrels	Chemical Processing Equip
Chemical Equipment	Chemical Storage and Transportation tanks
Coal Hopper Linings	Food Processing Equip
Cryogenic Vessels and Components	Steam Cooking Kettles
Dairy Equipment	Oil Refining Equipment
Evaporators	Paper Pulp Digesters and Evaporators
Food Handling Equipment	Petroleum Refining Equip
Milking Machines	Pharm. Processing Equipment
Nuclear Vessels and Comp	Scrubbers and Environmental
Oil Well Filter Screens	Soap and Photographic Handling Equipment
Pressure Vessels	General apps in Textile Ind.
Sanitary Fittings and Valves	
Shipping Drums	
Steel Tubes	
Textile Dyeing Equipment	
Hypodermic Needles	
Feedwater Tubing	

Galvannealed

Galvannealed or Galvanneal, is the result from the combined process of galvanizing and annealing the steel. The galvanization is made through the hot-dipping (hot-dip galvanizing) process and gives a very fine grayish matte finish. Galvanneal does not flake off its galvanized coating when formed, stamped, and bent. The very fine matte finish acts like a primer and paint easily adheres to the tray. It is very rust proof, only white to dark grey marks appear if it comes in contact with water. Galvanneal sheets offers good paintability, weldability, corrosion resistance, and formability. It is extensively used in the automotive, signage, electric equipment, and other industries requiring good paintability and long reliable service life.

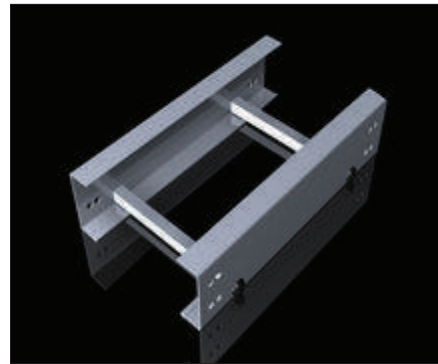
Husky Way is available in the galvanneal finish.



Fiberglass

MP Husky's Fiberglass Cable Tray systems are manufactured from glass fiber-reinforced plastic shapes and provides the load capacity of steel, plus the inherent characteristics afforded by our Pultrusion Technology: non-conductive, non-magnetic and corrosion-resistant. Although light in weight, the strength to weight ratio surpasses that of equivalent steel products. MP Husky's Fiberglass Cable Tray will not rust, nor does it ever require painting. It is available in both polyester and vinylester resin systems, manufactured to meet ASTM E-84, Class 1 Flame Rating and self-extinguishing requirements of ASTM D-635. MP Husky's Fiberglass Cable Tray comes in gray or blue (polyester resin) and beige (vinylester resin) but is available in custom colors upon request.

For more than 30 years, MP Husky's Fiberglass Cable Tray systems have been tested and proven in the harsh environment of the offshore oil and gas industry. Our tray has stood up to the test of being exposed to the corrosive conditions inherent in petroleum products, plus the daily punishment of exposure to wind, weather and salt water.



Husky Fiberglass Cable Tray is the perfect choice for harsh environments.





Corrosion Resistance

The underlying causes of corrosion are the same for all metals, all stemming from electrochemical phenomena. But the ways in which corrosion manifests itself are characteristic of each particular metal. Steel corrodes in the atmosphere with the formation of rust, which develops very rapidly on unprotected surfaces. In a clean atmosphere, aluminum slowly develops a white or silver grey patina.

Aluminum surfaces weather by a characteristic of pitting, and corrosion rates are often assessed by measuring the depth of the pits. The rate of pitting falls off after the first year or two, moving gradually to a standstill.

The strong, heat-treatable alloys of aluminum, with copper as one of the chief alloy elements, or certain fully heat-treated alloys with magnesium and silicon as major alloying elements, may manifest another type of attack, inter-crystalline in nature, which may cause more pronounced loss of strength if allowed to continue. Such materials may require protection by painting, cladding, or metal spraying, depending on the environment.

Several characteristic modes of corrosive attack may be distinguished as follows:

Simple Chemical Attack—the solution of a metal by an acid is an obvious example of simple chemical attack. Simple chemical attack occurs when sulfides are in contact with steel or copper. Ordinarily, aluminum is not subject to such attack. A classic example of such chemical attack is sludge retaining rainwater in the bottom of guttering. In this case, a corrosive solution is held in constant contact with the metal, and rapid attack may follow.

Electrochemical Corrosion—corrosion of a metal accelerated through contact with another metal in moist or wet conditions is known as bimetallic or electrolytic corrosion. This corrosion is due to the action of a simple voltaic cell. The presence of a conducting solution is essential to this phenomenon but the presence of dissimilar metals is not essential provided that a difference of potential exists.

In addition to the nature of the two metals, the extent of galvanic attack depends upon many other factors. Among these are:

- Nature of ions present in the electrolyte
- Polarization effects
- Effect of stable surface films on the metal
- Relative areas of anode and cathode
- The physical nature of the corrosion product
- Temperature variations

Each of these factors can influence the total resistance of the circuit. The following table is a compilation of solution potentials of metals and alloys with respect to a calomel electrode. It provides an initial guide to the possible effects of bi-metallic contact.

Galvanic Potential

Corroded End (Anodic or Least Noble)

- Magnesium
- Magnesium Alloys
- Zinc
 - Galvanized Steel or Galvanized Iron
- Aluminum Alloy 5052-H
- Aluminum Alloy 3004-S
- Aluminum Alloy 3003-S
 - Aluminum Alloy 1100-S
- Aluminum Alloy 6053-T
- Alclad
 - Cadmium
- Aluminum Alloy 2117-T
 - Aluminum Alloy 2017-T
 - Aluminum Alloy 2024-T
- Mild Steel
 - Wrought Iron
 - Cast Iron
 - Nickel Cast Iron
- Lead-Tin Solders
 - Lead
 - Tin
 - Brass
 - Copper
 - Bronze
- Copper-Nickel Alloys
 - Monel
 - Silver Solder
 - Nickel
 - Iconel
 - Chromium Iron
- 18-8 Stainless Steel
 - Type 304 (passive)
 - Type 316 (passive)
 - Hastelloy C
 - Silver
 - Graphite
 - Gold

Protected End (Cathodic or Most Noble)

Corrosion Resistance

The composition of the base metals has no measurable effect on the life of zinc coatings. However, the composition of the base metals is the major factor in the years to perforation.

The corrosion rate of zinc varies more with the type of atmosphere (marine, industrial) than does that of steel or iron.

The chloride content of sea air apparently has an accelerating effect on the corrosion of zinc coating.

Rainfall removes about 75% of the corrosion products from zinc surfaces if the results of tests in rural, industrial and marine exposures are averaged together. The residual corrosion products remaining on the surface become basic in character and exert a retarding influence on corrosion. In highly industrialized or polluted atmospheres, this basic film may not exist, a fact which helps explain the more rapid attack experienced in such atmospheres.

Indoor atmospheres correspond in a general way to that prevailing outside in a given locality. Variations in humidity and temperature are somewhat less extreme and there is no rainfall indoors to dissolve and remove soluble corrosion products. In general, it may be assumed that the protective life of zinc coatings indoors is at least five times greater than that of coatings of the same thickness exposed to the outdoor atmosphere in the same locality.

The indoor corrosion of zinc may be severe when moisture condensation is frequent and air circulation is restricted. This effect is particularly bad in humid, tropical locations with nightly condensation.

These conclusions indicate zinc coatings will in any event have an acceptable service life expectancy regardless of how the end point of failure is defined. However, it should be noted that whenever maintenance, such as painting, is neglected, it is unreasonable to expect galvanized steel to last indefinitely.

Finishes

Metallic

Cable trays fabricated of steel can be protected from corrosion by coating with another metal using one of the following methods:

- **Continuous Hot-Rolled Galvanizing**

ASTM Designation A653 Specifications for Zinc Coated Galvanized Iron or Steel Sheets, Coils, and Cut Lengths—This process applies a zinc coating to sheet steel prior to fabrication of the product (pre-galvanized cable tray) by passing the metal downward through a molten ammonium chloride flux bath, and then into the zinc and out again by means of rolls.

The MP Husky standard zinc coating designation is G90, which has an average zinc coating weight of 1.25 ounces per square foot of steel for an average coating on both surfaces of 1.06 mils.

- **Hot Dipped Galvanizing After Fabrication**

ASTM Designation A123 Specification for Zinc Coating (Hot Dip) on Assembled Steel Products—This process is used to apply a zinc coating to an already fabricated product. The product is first cleaned in a caustic bath, then further cleaned by a pickling acid bath. The article is then thoroughly rinsed and dipped in a bath of molten zinc. The nature and thickness of the coating depend largely on the immersion rate, temperature of the bath, immersion period, and withdrawal rate. The resulting coating consists of an outer layer of relatively pure zinc, and lower layers of iron-zinc compounds.

Generally, hot dip coatings are highly non-uniform, except on very simple shapes and are usually thickest at small recesses (unless these remain uncoated altogether). The advantage of this method is that the zinc applied is thicker than when applied by other processes. However, the protective characteristics of zinc coating under atmospheric conditions have been found to be equal, regardless of process: i.e. zinc coatings of the same weight have approximately the same service life.

- **Galvannealed**

Galvannealed or Galvanneal, is the result from the combined process of galvanizing and annealing the steel. The galvanization is made through the hot-dipping (hot-dip galvanizing) process and gives a very fine grayish matte finish. Galvanneal does not flake off its galvanized coating when formed, stamped, and bent.



Corrosion Resistance

The corrosive nature of sea water and of coastal environments is partly due to the low electrical resistance of salt solution. Similarly, the bad effects of industrial atmospheres on metals arise largely from the sulphur compounds, sulphurous and sulfuric acids, which are largely formed as a result of burning coal, and which dissolve in the moisture in the air or in the rain as it falls, or in films of condensed water on the metal.

To summarize, the extent and type of moisture is an important factor in determining the severity of galvanic attack. For indoor service, where wetting is infrequent, galvanic corrosion normally is no problem. Outdoors, attack may be relatively rapid in sea coast and industrial environments, where contamination, hence conductivity, of rain and condensed moisture is high. Several general rules can be applied in selecting metal combinations for use in corrosive environments. These are:

Select metals as close together in the galvanic series as possible. For the anodic protection of steel, metals above steel in the series should be selected, or the steel should be galvanized or otherwise protective-coated. Avoid combinations having a smaller area of the more anodic metal than of the cathodic, to avoid excessive current density on the anodic areas. Insulate dissimilar metals wherever possible to minimize galvanic corrosion.

Aluminum Alloys

The corrosion-resistance of aluminum alloys is due to the presence on the surface of a very thin protective film of aluminum oxide which has strong self-healing properties when damaged. The oxide film begins to form immediately on the surface of the bare metal exposed to air and grows rapidly for several days, then slowly for a month, when it reaches a thickness of approximately 0.0000002". Corrosion of aluminum can only occur when the oxide film is damaged or removed and conditions prevent its formation.

Substances which may come in contact with aluminum can be divided into three groups:

Those substances which attack the oxide film. These are most strong alkalis, mercurial compounds, and most strong acids.

Substances which cause localized breakdown of the oxide film (pitting) - and for which aluminum is suitable only under certain conditions, such as some natural fresh waters and aqueous solutions containing traces of mercury, copper, or other heavy metals.

Substances which do not attack the oxide film. The majority of substances fall in this group, including many industrial chemicals.

The majority of aluminum installations give perfectly satisfactory service, free from corrosion, and only in exceptional cases do problems occur. When problems do occur, they can be attributed to one or more of the following causes:

- Wrong choice of alloy
- Exposure conditions
- A bimetallic joint which causes galvanic corrosion
- Crevices
- Unwise location of the aluminum assembly, resulting in deposition corrosion
- Contact with aggressive chemicals

Among the heat-treatable alloys, the 6000 series has good resistance to industrial and marine atmospheres.

With the exception of certain corrosive chemicals, no corrosion at all will occur if water is not present. Thus, indoor installations that are not in actual contact with water or installations which are maintained in dry conditions, will not corrode.

Steel with Zinc Coatings

The data from which comparative performance of different types of zinc coating can be inferred, are generally obtained from comprehensive exposure tests in various atmospheres, such as those conducted since 1926 by the American Society of Testing Materials. From the results of these tests, the following conclusions can be made:

The corrosion rate of zinc on galvanized sheets is practically linear in industrial or rural atmospheres, and in a marine atmosphere that is polluted with industrial contaminants. Thus, in these atmospheres, a sheet with double the weight of coating than that of another sheet can be expected to last twice as long before rusting of the base metal occurs.



Loading

This section presents guidelines for classification of design conditions with respect to weather factors, methods of determination and application of various types of loadings encountered, maximum allowable working stresses and other pertinent considerations. This information will assist the designer in evaluating materials and product catalog information so that he can design a system which will achieve the desired strength and rigidity at the lowest possible installed cost.

Load Classification

Loads on structures are usually divided into three types:

- **Dead loads** that do not change their magnitude or their position during the life of the structure.
- **Live loads** that change their magnitude, their position and/or their direction during the life of the structure.
- **Dynamic loads** that are caused by the motion of the live load, or the movement of the structure.

Because of their general nature, these load classifications can be used for any structure. However, for the purpose of establishing a practical load classification for cable tray system design, it is necessary to create additional subdivisions and provide a guide for assumption of specific loads.

Thus, for cable tray system design, the three basic load types are also considered as follows:

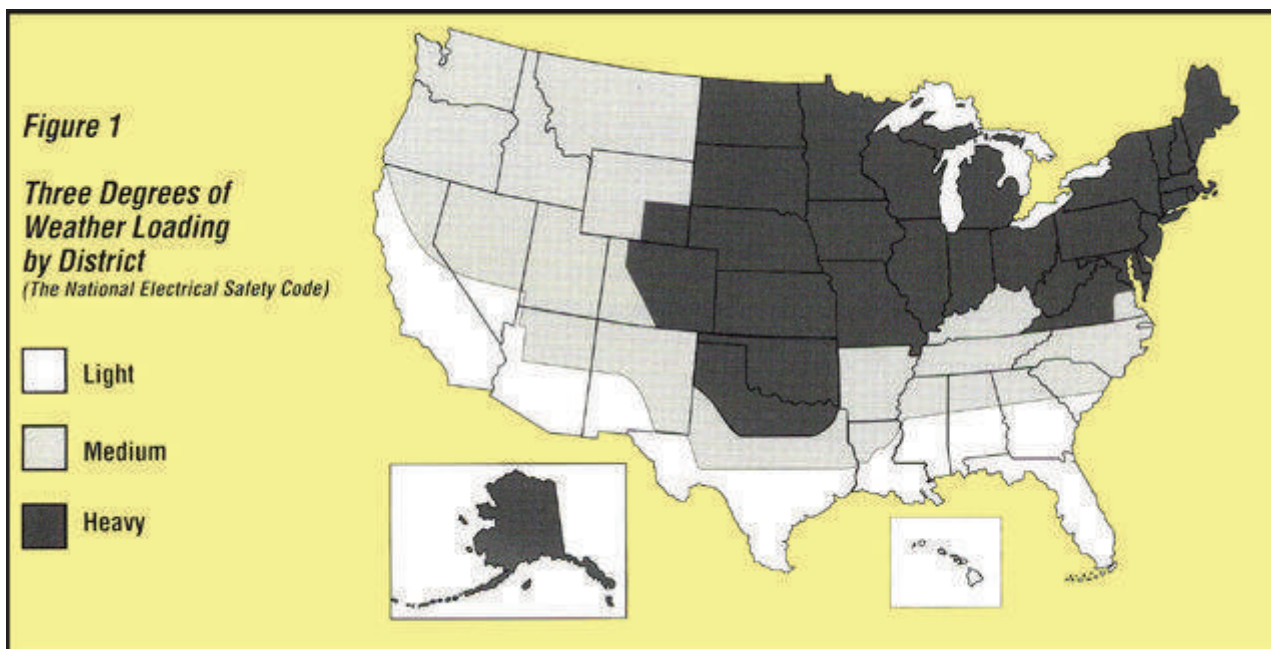
Dead Loads

Since dead loads are the weight of the members that make up a tray or tray support, they have a known value. A summation of the weights of the individual members is all that is required to calculate the dead load.

Live Loads

In cable tray design, dynamic loads are considered to be as follows:

- The design load is the weight of cables, cable tray accessories, and sometimes workers (which vary in both magnitude and position). Cable only design loads can be determined by adding the component weights of the system. Any provision for workers will require an assumption of magnitude and position—for practical purposes, an assigned weight acting at mid span of the tray.
- Parasitic loads such as ice, snow, wind, traction, and electromagnetic forces exist only because the tray exist. They are the most difficult to determine, and different assumptions can be made about their effect on the overall loadings. The following information will provide a general guide.





Loading

Three general degrees of loading due to weather conditions are recognized in the National Electrical Safety Code, and are designated as heavy, medium and light loading.

Districts in the United States in which these loadings are normally applicable are indicated in Figure 1. Values used in determining conductor loadings under these conditions for ice, wind and temperature are given in the Table 1—Degrees of Loading Due to Weather. However, modifications of these values are necessary when applied to cable tray systems, since the NESC is concerned primarily with the construction of overhead supply and communication lines. These modifications are:

Ice Loading

The NESC loading of 1/2" thickness is applied to both cables and cable tray. In applying loadings to interlocked armored cables, and bare stranded conductors or suspension cables, the coating of ice is considered as a hollow cylinder with an inside diameter equal to the outside diameter of the cable or strand. Ice is assumed to weigh 57 lbs. per cubic foot.

Snow Loading

The NESC does not consider snow loading, and in general this also applies to cable tray systems. However, in the case of a solid cover on a tray, the minimum load of 5lbs. per square foot should be used for outdoor installations where snow is a factor.

Wind Loading

The NESC loadings are modified as follows, in order to provide adequate protection against the maximum wind velocities encountered with consideration of the shapes of the various structures (not considered by NESC).

Wind velocity—in the loading tables, wind means horizontal wind. Wind velocity should be considered to be true wind speed, corrected for instrumentation errors. Any variation of velocity with height is not considered. All structures will be under 100 feet in height, and 100% of the ground velocity is assumed to be adequate.

Wind loads—the exteriors of all structures, with the exception of cylindrical structures, should be loaded with a wind pressure normal to the surface, having an intensity given by the formula:

$$W_p = C V_p$$

W_p = wind pressure in pounds per square foot

C = coefficient depending upon the size, shape, and position of the structure in the wind and having values specified in Table 2, Shape Factors

V_p = impact pressure = $0.00256V^2$ where V = the design velocity. Values of V_p may be obtained from Table 3, Impact Pressures

Wind direction and distribution—the allowance for wind pressure shall be made assuming the wind from any possible direction to be critical. Wind loads shall be considered uniformly distributed. Average annual tornado frequency, average wind velocities for different areas of the U.S. are shown in Figs. 2 and 3.

Traction Forces

Traction forces are caused by the cables starting and stopping during the cable installation period and they vary in magnitude and direction. They are of such nature, therefore, that no general assumptions can be made to provide for them. However, the safety factors selected for the basic design stresses should be conservative enough to provide for these forces when they do occur.

Table 1

Degrees of Loading Due to Weather National Electrical Safety Code Values			
	Loading District		
Condition	Heavy	Medium	Light
Radial thickness of ice (ins.)	0.50	0.25	0.00
Horizontal wind pressure (lbs./sq.ft.)	4	4	9
Temperature (degrees F)	0	15	30

Table 2

Shape Factors	
Structure	Shape Factor "C"
Isolated Structural Shapes	2.0
Trusses, Towers, Etc.	2.0
Wires, Cables, Etc.	1.2
Pipe Supports, Poles, Etc.	1.0

For trusses and towers the wind load is assumed to be acting on the projected area of the windward face only. For structures with circular cross sections, the affected area is the area projected on a vertical plane.

Loading

Electromagnetic Forces

These forces, caused by short-circuit current during a cable fault, vary in magnitude and position. It is impractical to make an assumption providing for them. Ordinarily, the safety factors selected for the basic design stresses will be adequate. However, in installations where these forces are of such magnitude that they become a factor in the design of the cable tray system, adequate provision must be made so that the design stresses are not exceeded.

(The Average Annual Number of Days with Thunderstorms for various areas of the United States are shown in Figure 4).

Dynamic Loads

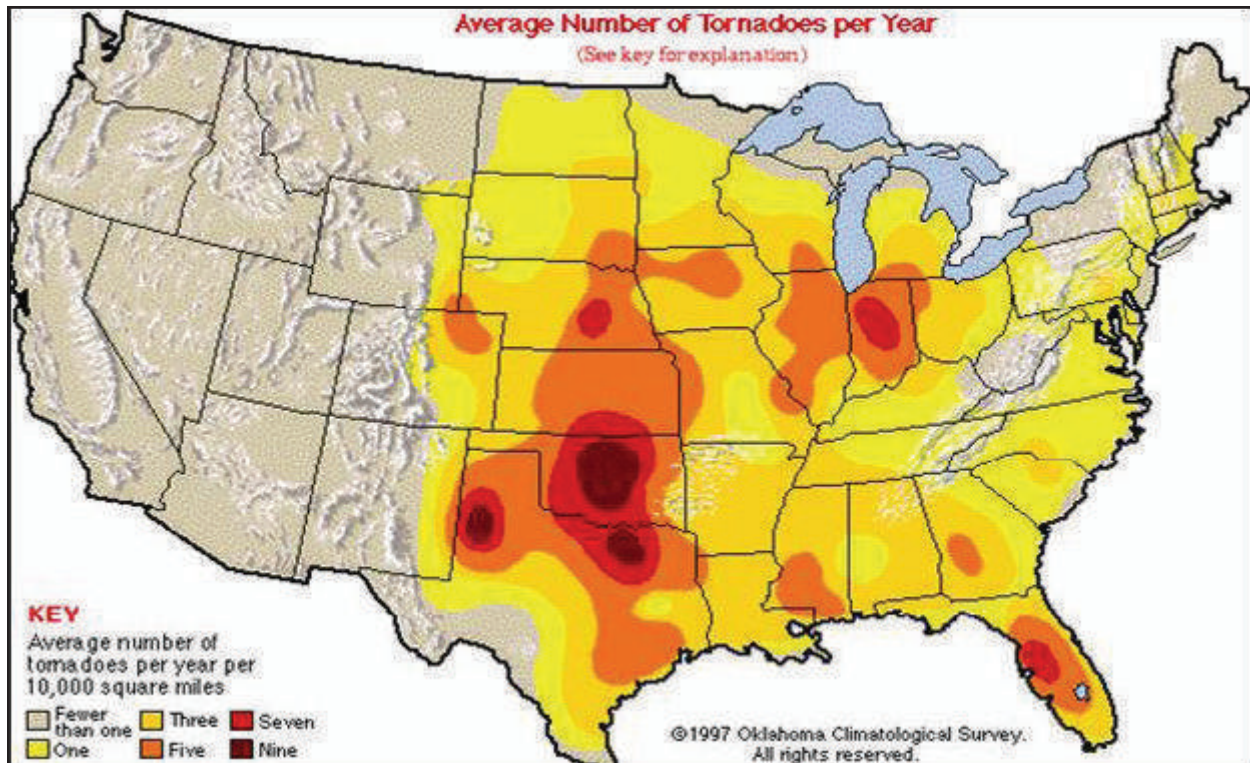
Impact loads which result because the live load is in motion, are loads in addition to the static weight of the live load. Such loads could be caused by cables being dropped onto it, or by workmen walking on it or climbing up or down a ladder leaning against it. These loads are provided for in the same manner as traction forces—the safety factors selected for the basic design stresses should be conservative enough to provide for these forces if they occur.

Table 3

V (mph)	Vp (psf)	V (mph)	Vp (psf)
15	0.58	85	18.5
20	1.02	90	20.7
25	1.60	95	23.1
30	2.30	100	25.6
35	3.13	105	28.2
40	4.09	110	30.9
45	5.18	115	33.8
50	6.39	120	36.8
55	7.73	125	40.0
60	9.21	130	43.3
65	10.80	135	46.6
70	12.50	140	50.1
75	14.40	145	53.8
80	16.40	150	57.6

These values are for an air density of 0.07651 lbs. per cu. ft. corresponding to a temperature of 60°F and barometric pressure of 14.7 lbs. per sq. in.

Figure 2





Loading

Inertia loads

Inertia loads are caused when the structure itself is in motion, such as may occur during an earthquake. It is usually considered that an earthquake gives the structure a horizontal acceleration, and the resulting acceleration and deceleration cause forces proportional to the mass and to the acceleration and deceleration. These loads represent special design requirements, and the design loading should be in accordance with the ASA's "American Standard Building Code Requirements for Minimum Design Loads in Buildings and Other Structures" or other suitable specifications. Seismic probability for various areas in the United States is given in Fig. 5.

Design Loadings

Basic cable trays are designed on the basis of maximum allowable stress for a certain section and material. Therefore, the allowable cable load will vary with span, type and width of tray. The design loadings for cable tray are given in the form of load tables. These tables appear in another section of the catalog.

The design loadings are to be used for designing standard supports, which necessitates assuming design loadings for the cable trays to be supported. If the design loadings of the cable trays exceed those listed, or if the assumptions for the loading of the open area or frame type supports exceed the conditions herein, standard supports cannot be used. Special supports must be designed on the basis of data for actual conditions.

Application of Loads

The application of all loads shall be to "conventional" or "simple" framing (unrestrained, free-ended), which assumes that the ends of the members are connected for shear only and are free to rotate under load.

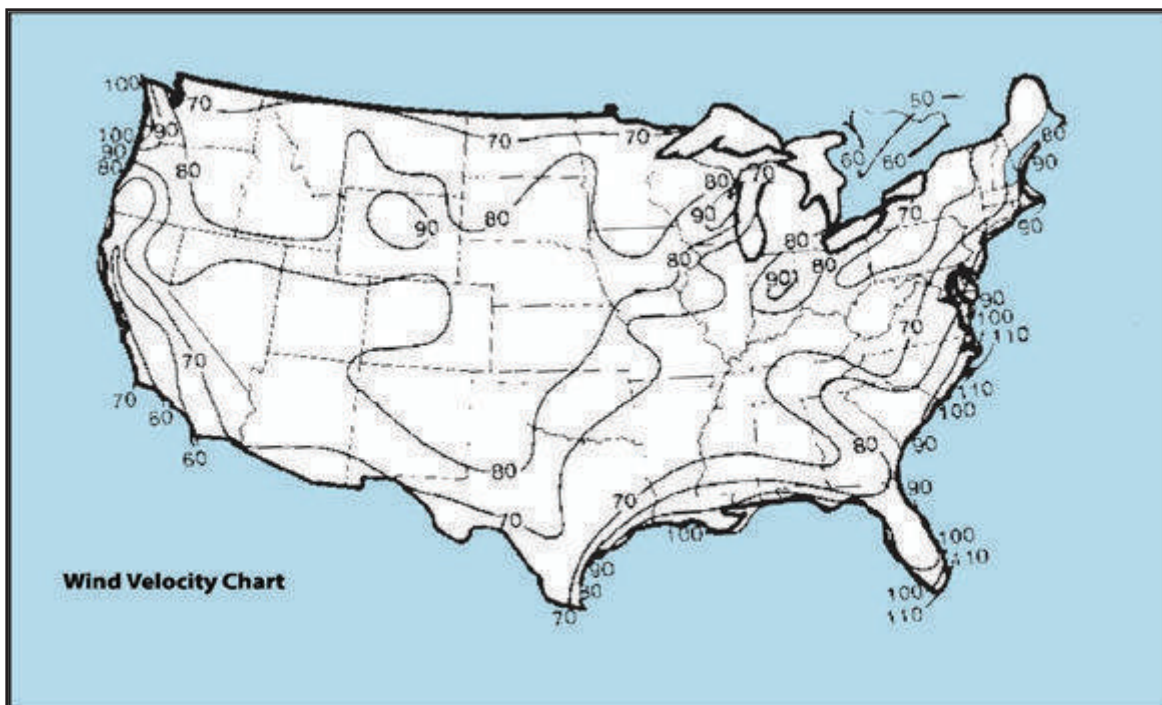
When calculating lateral strength, the lateral and vertical design loads shall be taken as acting simultaneously. It is assumed that maximum ice loads and maximum wind loads do not occur simultaneously.

When calculating longitudinal strength, the longitudinal design loads shall be taken without consideration of the vertical and lateral design.

When latticed structures are concerned, the actual exposed area of one lateral face shall be used in computing lateral and longitudinal loading.

Where a change of direction or suspension cables occurs, the loading upon the structure, including workmen, shall be assumed to be a resultant load equal to the vector sum of the lateral wind load and the resultant load imposed by the suspension cables due to their change in direction. In order to obtain these loadings, a wind direction shall be assumed which will give the maximum resultant load.

Figure 3





Loading

It is recognized that deformation, deflection, or displacement of parts of the structure, will in some cases change the effects of the loads assumed. In the calculations of stresses, however, no allowance shall be made for such deformation, deflection, or displacement of supporting structures.

Members subject to stresses produced by a combination of wind and other loads may be proportioned for unit stresses 33.3% greater than those specified for dead and live load stresses provided the section thus required is not less than that required for the combination of dead load, live load, and impact (if any). A corresponding increase may be applied to the allowable unit stresses in their connecting rivets, bolts, or welds.

Members subject to stresses produced by the assumed Class 1 tray lateral loading may be proportioned as specified for wind loads.

Determination of Design Loadings

The following procedures and values for design loadings have been established by MP Husky. The data is based on test results under various installation conditions, and the experience of practical application in the design of components and systems.

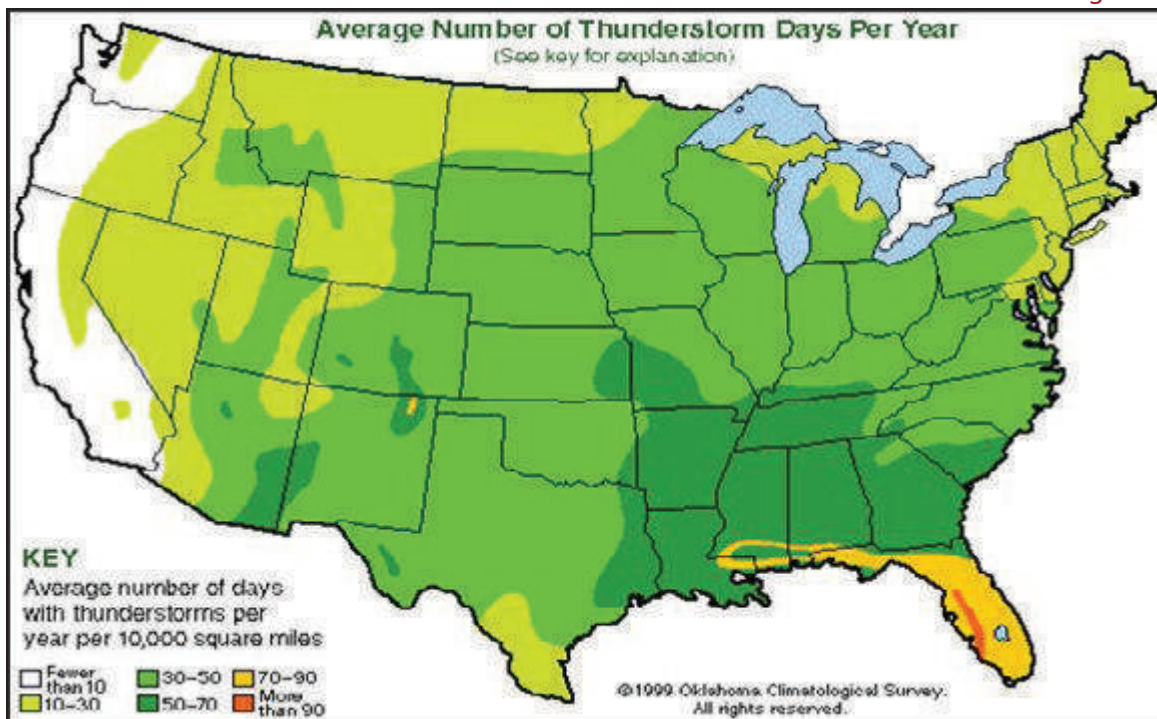
In each instance, the loadings are given for three classes of design conditions as shown in Table 4, Design Conditions.

These classifications have been established from modifications of the National Electrical Safety Code's "Degrees of Loading Due to Weather Conditions".

Table 4

Design Conditions			
Location	Class 1 Indoor	Class 2 Outdoor	Class 3 Outdoor
Wind Velocity (mph)	0	25.0	100.0
Wind Pressure (psf)	0	1.6	25.6
Ice (in)	0	0.5	0.5

Figure 4





Loading

Cable Tray Loading (tray in horizontal position)

Vertical Design Loading

CLASS 1

The loading shall be a uniformly distributed load of 40 lbs. per foot, equivalent to the vertical load per foot of the cables, tray and accessories.

CLASS 2

The loading shall be a uniformly distributed load of 52 lbs. per foot, equivalent to the vertical load per foot of ice-covered cables and tray. The weight of ice computed on the basis of 1/2 inch thickness and 57 lbs. per cubic foot density.

CLASS 3

Same as for Class 2. Values established for the above (lbs. per linear foot)

Class 1: 40 Class 2: 52 Class 3: 52

Lateral Design Loading

CLASS 1

The loading shall be a uniformly distributed load of 120 divided by span length (in feet) lbs. per foot, equivalent to a 50lb ladder leaning against the tray at an angle of 75° with horizontal plane and 200 lbs man at mid span. (A position of the man on the ladder shall be assumed which will give the maximum resultant loading on the tray.

CLASS 2

The loading shall be lateral, horizontal wind pressure of 1.6 lbs. per square foot upon the projected area of a 4 inch deep ice-covered tray multiplied by a shape factor of 2.0, or the design loading for Class 1 if it is greater.

CLASS 3

The loading shall be a lateral, horizontal wind pressure of 25.6 lbs. per square foot upon the projected area of a 4 inch deep tray without ice-coating multiplied by a shape factor of 2.0. Values established for the above (in pounds per linear foot)

¹²⁰
Class 1: $\frac{120}{sp}$ Class 2: 1.33 Class 3: 17

Longitudinal Design Loading

CLASS 1

Same as Class 3.

CLASS 2

Same as Class 3.

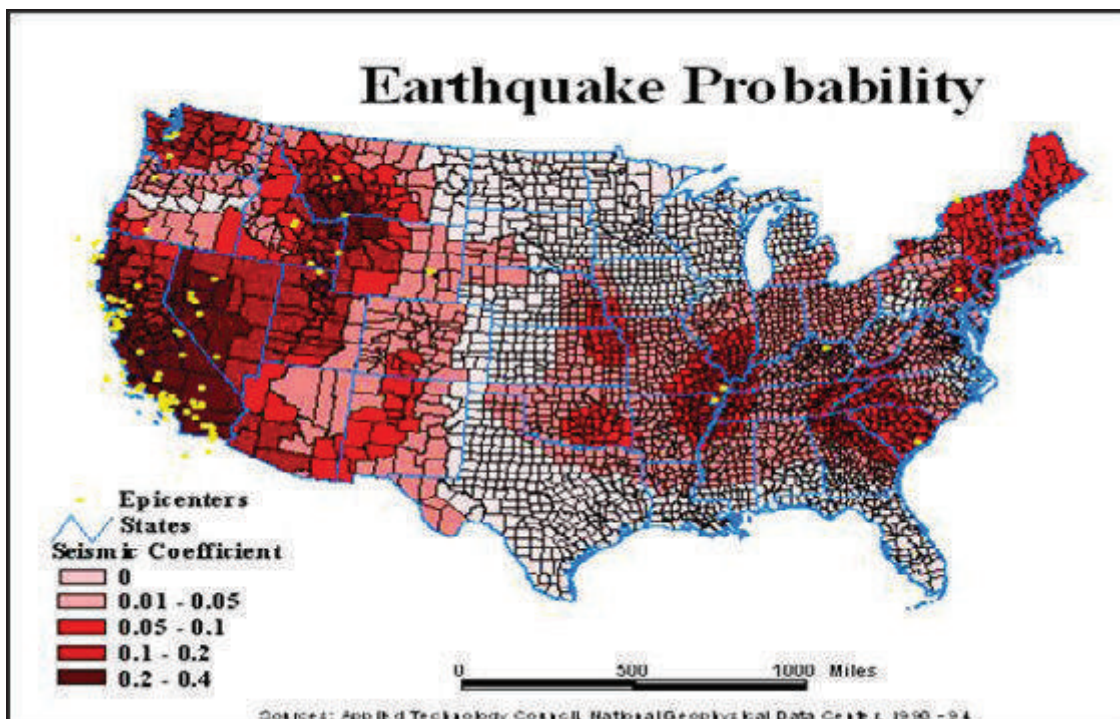
CLASS 3

The loading shall be a lateral, horizontal wind acting against the tray at an angle of 45° to the longitudinal axis and on the projected area of a 4 in. deep tray (without ice-coating) with a pressure of 25.6 lbs. per square foot multiplied by the shape factor of 2.0. Longitudinal design Loading as above will insure adequate provision for traction forces when they occur.

Values established for the above (lbs. per linear foot)

Class 1: 12 Class 2: 12 Class 3: 12

Figure 5





Loading

The concept of “**Cables in Free Air**” for power distribution and control cables has been adopted primarily for economic reasons. Cable tray support systems should be designed, whenever possible, for minimum installed cost. In order to achieve this objective, the engineer must bear in mind that the general design rules established for aluminum and steel structures are not always compatible with design rules for a cable tray system. This is particularly applicable in the case of restrictions on deflection.

Since the most economical cable tray system uses heat treated aluminum alloys, or high strength steels with long spans, any limitation on deflection which will not permit the best utilization of material and design will increase the cost. By limiting the maximum fiber and shear stress used in the design the adequacy and safety of the structure is assured.

Why Limit Deflection?

The primary reason to limit deflection in cable tray systems is appearance. Engineers and owners take pride in the appearance of their installations. So rigid restrictions on deflection of cable trays installed at eye level or in a prominent location are common. However, it is neither economical nor good engineering practice to restrict deflection of a cable tray system in less prominent areas.

Methods of Decreasing Deflection

There are various ways to limit deflection of a cable tray. If the objective is minimal installed cost, they should be considered in this order:

- **Decreasing stress by decreasing the bending moment.** This can be accomplished by introducing restraining moments at the end of a span in the form of a rigid support. The deflection in a continuous beam, with negative bending moments at the intermediate support points, is only a fraction of the deflection in a simple beam.
- **Increasing depth of the tray.** Deflection in any location can be reduced by increasing the depth of the load-carrying side members and/or by adding to their cross-sectional area. Adding to the depth generally utilizes the material most economically.
- **Increasing modulus of elasticity.** Since the modulus of elasticity of steel is 29×10^6 psi, and that of aluminum alloys is only 10×10^6 psi, greater deformation of aluminum alloy trays is to be expected at any given stress level. Under its own weight, an aluminum beam will deflect the same amount as an identical steel beam, since not only the weight, but also the modulus of elasticity is only one-third that of steel. However, under the same applied load (disregarding the beam's own weight), aluminum will deflect almost three times as much as steel.

- Therefore, consideration must be given to the choice of material for any one location, for an isolated run or for an entire installation.
- **Decreasing span length.** For economic reasons, this method of reducing deflection should be a last resort, since it increases field labor considerably. However, it can be an effective means to improve the appearance of an installation when the number of spans to be reduced is small in comparison to the number in the entire installation.

Deflection Criteria Applied to Cable Tray

Design rules and specifications developed for steel should not be applied to aluminum alloys since this would not permit the most economical use of these materials. Deflection criteria which apply only to steel, and should not be used when the most economical system is desired include:

- **Span-deflection ratio** - Example: Deflection is limited to $1/300$ of the span by the National Electrical Manufacturers Association specifications for structures supporting air switches. While very important in that instance, as even slight deflection could cause misalignment in the operating mechanism and result in binding and difficult switch operation, the application of this specification to a cable tray is uneconomical and not recommended.
- **Depth to span ratio** - Example: The American Institute of Steel Construction, in the specifications for buildings, specifies the depths of beams and girders in floors to be not less than $1/24$ of the span, or not less than $1/20$ of the span where shock or vibration may be encountered. This specification ensures a certain rigidity and levelness of the structure which is important in that instance, but cannot be justified for cable tray systems because of the higher cost involved.
- **Deflection constant** - Example: Deflection is limited to a certain amount by an engineering company for a tray system. While such specifications might make a system using 8-foot spans look better, it prohibits the use of more economical designs with longer spans which have a much greater deflection and still look acceptable. Such a specification increases the cost of the tray system unnecessarily, especially if the trays are to be installed well above eye level.

Summary

As a guide, a span-deflection ratio of around $1/200$ satisfies most owners. This ratio provides an allowable deflection of 0.6" in a 10-foot span, 0.72" in a 12-foot span, and 1.20" in a 20-foot span under the actual loads encountered. Data for calculating deflection is presented in Table 5, **Constants for Beam Deflections**.



Deflection

Table 5



Constants for Beam Deflection

		2 Span	3 Span			4 Span		5 Span			
r	Free Beam	Span 1 Span 2	Span 1 Span 3	Span 2	Span 1 Span 4	Span 2 Span 3	Span 1 Span 5	Span 2 Span 4	Span 3	Fixed Beam	r
0	0	0	0	0	0	0	0	0	0	0	12
1	2.94	1.490	1.800	-0.363	1.680	-0.155	1.71	0.251	0.337	0.190	11
2	5.79	2.780	3.360	-0.311	3.180	0.078	3.24	0.389	0.804	0.691	10
3	8.03	3.970	4.640	-0.078	4.400	0.544	4.37	1.710	1.810	1.23	9
4	9.75	4.450	5.500	-0.181	5.220	1.020	5.10	2.570	2.200	1.77	8
5	10.88	4.570	*5.910	-0.389	5.530	1.350	5.65	3.130	2.450	2.14	7
6	11.31	4.490	5.860	-0.449	5.470	1.620	5.56	4.150	2.720	2.25	6
7	10.88	3.980	5.360	-0.389	4.970	1.640	4.88	3.320	2.450	2.14	5
8	9.75	3.160	4.480	-0.181	4.110	1.360	4.19	3.200	2.200	1.77	4
9	8.03	2.080	3.270	-0.078	2.930	1.030	3.01	2.590	1.810	1.23	3
10	5.79	1.180	2.090	-0.311	1.830	0.640	1.89	1.850	0.804	0.691	2
11	2.94	0.285	0.804	-0.363	0.657	0.147	0.70	0.838	0.337	0.190	1
12	0	0	0	0	0	0	0	0	0	0	0

*Maximum Deflection for Continuous Beams up to and including 5 spans.

$$\Delta = C \frac{W_c l^4}{EI} \quad \text{where}$$

Δ = Deflection (inches)
 W_c = Carrier Load (lbs/ft)
 l = Span Length
 E = Modulus of Elasticity (psi)
 I = Moment of Intertia of Carrier Stringer (in⁴)
 C = Values shown in table

Example: A cable tray with specified load has a simple beam deflection of 1.92 inches at mid-span. Find the deflection for the fifth span of the 5-span installation. From the table above, the maximum constant in the free beam columns is 11.31. Note that this is the center of the span. For the 5-span installation, the maximum constant in the 5-span column is 5.65, which is not in the center, but 7/12 of the span length from the support between spans 4 and 5. The maximum deflection of this fifth span is given by:

$$\Delta = 1.92 \times \frac{5.65}{11.31} = 0.96 \text{ inches}$$

Electrical Equipment & Grounding

A cable tray system must provide protection to life and property against faults caused by electrical disturbances, lightning, failures which are a part of the system, and the failure of equipment that is connected to the system. For this reason, all metal enclosures of the system, as well as non-current carrying or neutral conductors, should be tied together and reduced to a common earth potential.

This includes the structural steel of a building, all piping for water, gas, steam, and sewers, tanks, well casings, down spouts, gutters, siding and roofing. There are two distinct divisions to the grounding problem:

System grounding and Equipment grounding.



Electrical Design & Grounding

The following explanation gives the reasons for grounding, and how to provide for it.

System Grounding

The purpose of system grounding is to drain off any excessively high voltages that may accidentally come on the tray system. If the system is properly grounded by means of a low-resistance conductor of sufficient capacity, the current will be carried off to earth immediately with a minimum danger of fire or shock. In a grounded system, an accidental grounding of one of the current carrying conductors will result in a short circuit, and cause a fuse or circuit breaker to open.

Equipment Grounding

Equipment grounding means the connection to earth of all exposed, non-current carrying metallic parts of the components of the distribution system. The purpose of this ground is to prevent a voltage higher than earth potential on cable tray or equipment. Grounding thus reduces the danger of shock or fire in the event a live conductor comes in contact with these conductive parts.

Methods of Grounding

Effective grounding must be permanent and continuous, and have ample capacity to safely conduct any current likely to be imposed on it. It should also have impedance sufficiently low to limit the potential above ground and to facilitate operation of over-current devices in the circuit. A continuous, underground metallic water supply system is acknowledged to be the best electrical ground. Other suitable methods of grounding include continuous metallic steam and gas piping systems, the grounded metal framing of the building,

or an artificial electrode such as a driven steel pipe, galvanized or otherwise protected from corrosion, or a buried metallic plate.

The tray system and equipment ground connections should be made to the same electrode at the service entrance, on the supply side of the equipment used for disconnecting the service. Equipment should be solidly tied in with the system ground. It is also important, that wherever multiple grounds are used, they be tied together in order to avoid any difference of potential between the various parts of the tray system.

Complete rules for grounding are contained in Article 250 of the National Electric Code.

Electrical Properties of Cable Tray

MP Husky has always recognized the importance of electrical design, as well as structural design, to provide positive, safe protection to personnel, facility and equipment. Thorough testing has proven that the cable support system must be electrically designed for maximum carrying capacity, in that: power cables may have short circuit capacity from 5000 to 150,000 amperes, and the division of fault current places considerable burden on the support system, even though adequate grounding has been provided. Table 6 shows the division of fault current determined by tests of an aluminum and a steel interlocked armored 3-conductor 4/0 cable on a MP Husky aluminum cable ladder.

It is not the purpose or intent that the support system be used for a continuous ground, but to provide extremely high one second current carrying capacity as a safety feature. The entire system should be grounded at periodic intervals to keep the potential at or below 100 volts in case of a cable fault. MP Husky cable trays are classified by Underwriters Laboratories® as to their suitability as an equipment grounding conductor only.

Division of Fault Currents

Table 6

	Steel	Armored	Cable	Aluminum	Armored	Cable
Fault Current Path	% through armor	% through ground wire	% through ladder	% through armor	% through ground wire	% through ladder
Armor and Ladder	50	--	50	23	--	77
Armor, External Ground Wire and Ladder	50	23	27	17	37	46
Armor, Internal Ground Wire and Ladder	5	74	21	9	54	37



Electrical Design & Grounding

UL Grounding

Table 7

Electrical Properties of Cable Trays						
Product			Resistance Across One Foot of Rail (Microhms/ft)	Resistance Across Splice (Microhms)	Resistance of 12ft. Length with Splices (Microhms)	Copper Equivalent (MCM)
SHA	S()HA		234	57	1461	83
SJ2	S()J2	S()B2	230	68	1448	94
SKC	S()KC	S()FC	163	69	1047	108
SY	S()Y	S()C	144	59	923	160
SY1	S()Y1	S()C1	103	40	658	222
SYA	S()YA	S()CA	182	58	1150	129
SYD	S()YD	S()CD	163	75	1053	143
SM61	S()M61	S()P61	110	40	700	128
SM14	S()M14	S()P14	89	31	565	160
SMC	S()MC	S()PC	108	39	687	110
SMD4	S()MD4	S()PD4	124	38	782	133
SX	S()X	S()E	116	44	740	203
SX1	S()X1	S()E1	88	43	571	283
SXB	S()XB	S()EB	111	35	701	155
SXC	S()XC	S()EC	98	35	623	193
SXD	S()XD	S()ED	93	32	590	215
AJA	A()JA	A()BA	27	12	174	712
AJB	A()JB	A()BB	27	12	174	712
AY	A()Y	A()C	19	11	125	1024
AY1	A()Y1	A()C1	18	11	119	1305
AYA2	A()YA2	A()CA2	31	12	206	819
AMC	A()MC	A()PC	23	8	146	944
AX	A()X	A()E	18	8	116	1268
AX1	A()X1	A()E1	14	7	91	1499
AXA	A()XA	A()EA	26	13	169	981
AIXB	A()IXB	A()IEB	19	16	130	1282
AIXC	A()IXC	A()IEC	17	11	113	1539
		A()I6	15	6	96	1835
SG-4			121	50	776	160
SG-6			68	33	441	203
AG-4			26	22	178	1024
AG-6			24	9	153	1268

Note:

For electrical properties of pre-galvanized cable trays, refer to the electrical properties given above for hot dipped galvanized cable trays of the same style.

Example: For electrical properties of PHA cable tray, refer to SHA in the above table.

Sizing

Sizing Trays for Multiple-Conductor Cables

Section 392.2 lists the requirements for installing multiple-conductor cables in ladder, ventilated trough, solid-bottom, or ventilated channel type trays.

For ladder or ventilated trough trays, the diameter of all cables No. 4/0 and larger must be added together and the total must not exceed the width of the cable tray. Cables must be placed side by side. Table 392.9, Column 1 is used for cables less than 4/0. These cables do not have to be placed side by side. Table 392.9, Column 2 is used for a combination of cables rated larger than 4/0 and smaller than 4/0.

The total cross-sectional areas of the cables in trays with an inside depth of 6" or less, containing control and/or signal cables must not exceed 50% of the cross-sectional area of the tray.

For solid bottom trays, the diameter of all cables No. 4/0 and larger must not exceed 90% of the cable tray width. Table 392.9, Column 3 is used for cables smaller than 4/0. Table 392.9, Column 4 is used for a combination of cables rated 4/0 or larger, or less than 4/0.

For trays with an inside depth of 6 inches or less, containing control and/or signal cables, the total cross-sectional areas of the cables must not exceed 40% of the cross-sectional area of the tray.

For ventilated channel type trays, the total cross-sectional areas of all cables must not exceed 2.5 square inches for 3 inch wide trays or 3.8 square inches for 6 inch wide trays.

Sizing Trays for Single Conductor Cables

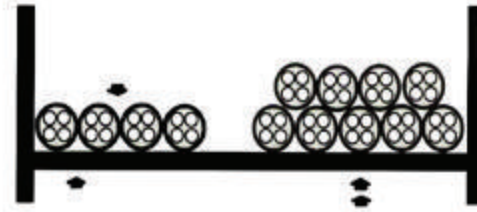
For ladder or ventilated trough trays, the total diameter of all cables 1000MCM and larger must not exceed the width of the cable tray. Table 392.10, Column 1 is used for cables smaller than 1000MCM. Tables 392.10, Column 2 is used for a combination of cables rated 1000MCM and larger, and smaller than 1000MCM.

For ventilated channel type trays, the total diameter of all cables must not exceed the inside width of 4" or 6" wide trays.

Problem:

What size ladder-type cable tray is required for nine multi-conductor smaller than 4/0 and four multi-conductors larger than 4/0? The total diameter (in inches) for the 4/0 and larger cables is 12.6" and the total area for cables rated less than 4/0 is 22 sq. in.

Cable tray width must be selected from Table 392.9 and be based on the calculation in Column 2.



Note: Square inch area of cables obtained from manufacturer.

Step 1: 392.9 (a) (3)

Sq. in. of cables smaller than 4/0 = 22 sq. in.

Diameter of cables larger than 4/0 = 12.6 in.

Step 2: Table 392.9

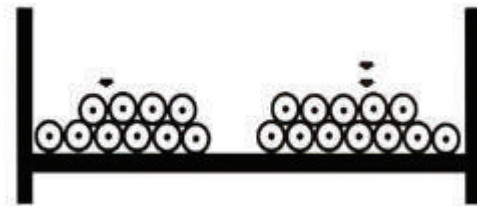
22 sq. in. + (12.6 x 1.2) = 37.12 sq in.

A 36" tray has 42 sq. in. area

Answer: The inside width of the cable tray must be equal to 36".

Problem:

What size tray is required for ten No. 250 MCM RHH RHW copper conductors and twelve No. 750 MCM RHH RHW copper conductors laid in a ladder-type tray?



Cable tray must be selected from Table 392.10, Column 1 based on square inch area.

Step 1: 250 MCM = .554 sq. in.

750 MCM = 1.286 sq. in.

Step 2: Table 392.10 (a) (2) Table 392.10, Column 1

.554 x 10 = 5.54 sq. in. + 1.286 x 12 = 15.43 sq. in. = 20.97 sq. in.

Step 3: Table 392.10, Column 1

18" wide tray = 19.5 sq. in.

24" wide tray = 26.0 sq. in.

Answer: The inside width of the cable tray must be equal to 24".



Formulas & Conversions

Convert a Concentrated Load to Pounds per Linear Foot:

$$\text{Formula: } W_e = \frac{2 \times (\text{Concentrated Load})}{\text{Span (Ft)}}$$

Where

Concentrated Load = 200 pounds

Span = 20 feet

W_e = Converted Load in pounds per linear foot

$$\text{Calc: } \frac{2 \times 200}{20} = 20 \text{ lbs/ft}$$

Formula: Concentrated Load times 2 divided by the support span.

Example: A 200 pound concentrated load on a 20 foot span would be a load of 20 additional pounds per linear foot. This load can be added to the uniform cable load for a total load and compared to a load shown in a load deflection table.

Convert a Load with a 1.5 Safety Factor to a Load with a 2.0 Safety Factor:

$$\text{Formula: } W_k \times \text{Multiplier}$$

Where

W_k = 100 pounds per foot

Safety Factor = 1.5

Multiplier 0.75 for 2.0 safety factor, 0.60 for 2.5 S.F.

$$\text{Calc: } 100 \times 0.75 = 75 \text{ lbs/ft}$$

Formula: Multiply the load shown with a 1.5 safety factor by 0.75 to convert the load to a 2.0 safety factor.

Example: A load of 100 pounds per foot with a 1.5 safety factor would be 75 pounds per foot with a 2.0 safety factor. The multiplier for a 2.5 safety factor would be 0.60.

Obtain a Deflection for a Load that is smaller than a Load Shown in a Load Deflection Table:

$$\text{Formula: } D_2 = \frac{W_2}{W_1} \times D_1$$

Where

D_2 = Calculated Deflection with smaller load

W_2 = 150 lbs/ft Smaller Desired Load

W_1 = 200 lbs/ft load in load table

D_1 = 1.5" Deflection for 200 lb load in table

S = 12 Foot Span in Deflection Table

$$\text{Calc: } \frac{150}{200} = 0.75 \times 1.5" = 1.125"$$

Formula: Divide the desired load by the load shown in the load deflection table and multiply the answer times the deflection shown for the known load in the load deflection table.

Example: If the load table shows 200 pounds per foot on a 12 foot span with 1.5 inches of deflection and you want to know the deflection for a 150 pounds per foot on the 12 foot span you would divide the load desired (150) by the load known (200) and multiply the answer (0.75) times the known deflection (1.5"). The answer would be 1.125" deflection at 150 pounds per foot on a 12 foot span.

Formulas & Conversions

Calculate a Load for a Shorter Span that is not shown in a Load Deflection Table:

Formula: $W_2 = W_1 \times L_1^2 / L_2^2$

Where
 W_2 = Calculated load for the 10' span
 W_1 = Tested 100 lb/ft load or load in load table
 L_1 = Tested 12' span or span in load table
 L_2 = Shorter 10 ft span not tested or in load table

Calc: $\frac{100 \times 12^2}{10^2} = 144 \text{ lbs/ft on } 10'$

Formula: Take the load of a known span times the span length squared and divide by the span desired squared.

Example: The load table shows 100 pounds per foot on a 12 foot span with a deflection of 1.5 inches. To find the load for a 10 foot span that is not in the table you take the load known (100) pounds times the span (12) foot squared then divide the answer (14,400) by the span desired (10) foot squared. The result is 144 pounds per foot on a 10 foot span. Do not calculate longer spans with this formula.

Part 2 Calculate the deflection for the new load of 144 pounds per foot on a 10 foot span:

Formula: $D_2 = \frac{W_1}{W_2} \times D_1$

Where
 D_2 = Calculated deflection for new load
 W_2 = 144 lbs/ft new 10' span desired load
 W_1 = 100 lbs/ft load in load table
 D_1 = 1.5" Deflection for 12' span 100 lb/ft load in table
 S = 12 Foot Span in Deflection Table

Calc: $\frac{100}{144} = 0.6944 \times 1.5" = 1.0416"$

Formula: Divide the new desired load for the 10 foot span by the known load for the 12 foot span and multiply the answer times the deflection for the known load on the 12 foot span.

Example: Take the load on the known span (100) pounds and divide by the new desired load (144) pounds. Take the result (0.6944) times the known span deflection (1.5) inches to get 1.0416 inches. The 144 pound load on a 10 foot span would have a deflection of 1.0416 inches. Catalog Deflections are based on simple beam support spans.



Request for Quote

For a working estimate, please provide the information requested below, along with a sketch of your system (optional) and fax both to MP Husky at (864) 234-4822. You will be contacted if more information is required. A completed estimate and proposal will be returned as soon as possible.

From: _____ **Project Name** _____
Name _____ **Engineer** _____
Company _____ **Contact** _____
Address _____ **Location** _____
Phone # _____ **Bid Due Date** _____
Fax # _____ **Quotation No.** _____
Email: _____ **Agency Name** _____
Delivery Date _____

Required Information

Type of Tray	Type of Material	Radius of Fittings	Side-rail Height	Tray Width
☐ Husky Ladder (Flange Out)	☐ Aluminum	☐ 12 in.	☐ 3 in.	☐ 6 in.
☐ 9 ☐ 12 ☐ 18 Rung Spacing	☐ Pregalvanized	☐ 24 in.	☐ 4 in.	☐ 9 in.
☐ Husky Ladder (Flange In)	☐ HDGAF	☐ 36 in.	☐ 6 in.	☐ 12 in.
☐ 6 ☐ 9 ☐ 12 Rung Spacing	☐ Stainless 304		☐ 7 in.	☐ 18 in.
☐ Husky Trough	☐ Stainless 316		☐ 8 in.	☐ 24 in.
☐ Solid or ☐ Ventilated Bottom	☐ Galvannealed		☐ 10 in.	☐ 30 in.
☐ Husky Channel ☐ 4" Wide ☐ 6" Wide				☐ 36 in.
☐ Solid or ☐ Ventilated Bottom				
☐ Husky Techtray ☐ Husky Centray Depth _____ Centray—Bottom or Top Rung? _____ Rung Spacing ☐ 3 ☐ 6 ☐ 9 ☐ 12 ☐ 18	☐ Husky Way ☐ EMI			

Support Span	Safety Factor	Covers	Other Specs
☐ 6 ft.	☐ 1.5 (Standard)	☐ Aluminum	NEMA Class _____ lbs./linear foot
☐ 8 ft.	☐ 2.0	☐ Steel	CSA Class _____ kg/mm
☐ 10 ft.		☐ Pregalv, HDGAF, Stainless (Circle One)	
☐ 12 ft.		☐ Flat	Load _____ lbs./linear foot
☐ 16 ft.		☐ Flanged	Conc. Load _____ lbs.
☐ 20 ft.		☐ Louvered	Deflection _____ in. with _____ lbs. loaded
☐ 24 ft.		☐ Hat Shaped	
☐ 30 ft.		☐ Peaked	



MP HUSKY[™]
CABLE TRAY & CABLE BUS

Husky Ladder Flange-Out

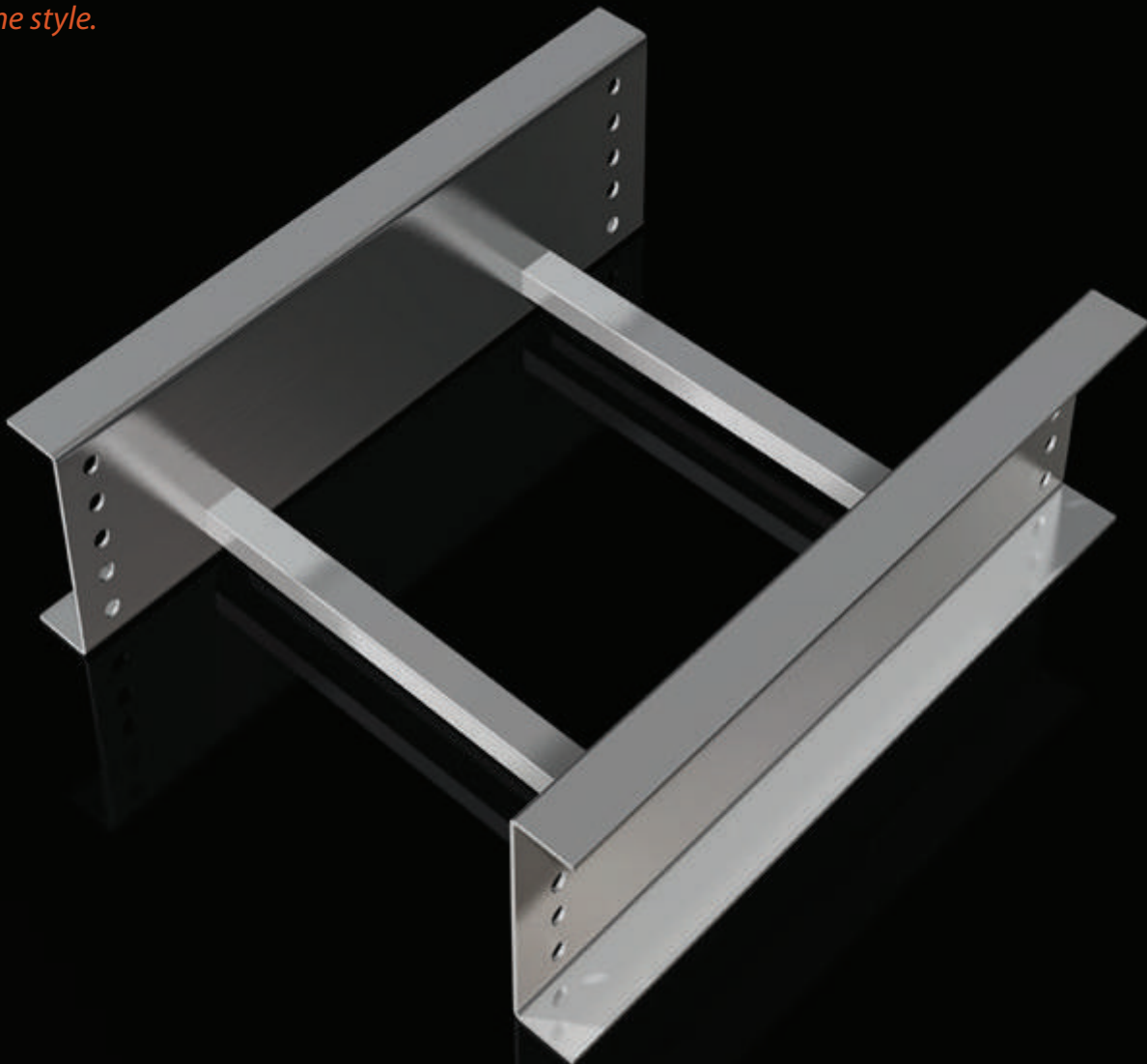
In Aluminum, Steel

Selection Tables Pg. 29

Numbering System..... Pg. 30

Loading Tables..... Pgs. 31-35

The upper flange may have an extruded lip, a bent lip, or no lip at all depending on the style.





Selection Tables (For actual loading capacity see Load Tables in this section)

2-FLANGE OUT
LADDER

NEMA Class	Load (lbs.)/ Span (ft.)	Aluminum				Steel			
		Siderail Height (in.)	Load Depth	Top Flange Width	Prefix	Siderail Height (in.)	Load Depth	Top Flange Width	Prefix
8A	50/8	4.50 6.00	3.50 5.00	.75 1.00	A()BB A()PB1	4.00 6.00	3.00 5.00	1.25 1.00	S()B2 S()P61
8B	75/8	4.50 6.00	3.50 5.00	.75 1.00	A()BB A()PB1	4.00 6.00	3.00 5.00	1.25 1.00	S()B2 S()P61
8C	100/8	4.50 6.00	3.50 5.00	.75 1.00	A()BB A()PB1	4.00 6.00	3.00 5.00	1.25 1.00	S()B2 S()P61
12A	50/12	4.50 6.00	3.50 5.00	.75 1.00	A()BB A()PB1	4.00 6.00	3.00 5.00	1.25 1.00	S()B2 S()P61
12B	75/12	4.50 6.00	3.50 5.00	.75 1.00	A()BB A()PB1	4.00 6.00	3.00 5.00	1.25 1.00	S()B2 S()P61
12C	100/12	4.50 6.00	3.50 5.00	1.50 1.00	A()CA2 A()PB1	4.50 6.00 7.00	3.50 5.00 6.00	1.25 1.00 .75	S()FC S()P61 S()PD7
12C+	100+/12	6.00	5.00	1.25	A()PC	4.50 6.00 7.00	3.50 5.00 6.00	1.25 1.00 0.75	S()FC S()P61 S()PD74
16A	50/16	4.50 6.00	3.50 5.00	1.50 1.75	A()CA2 A()EA	4.50 6.25	3.50 5.25	1.75 1.75	S()CD S()EB
16B	75/16	4.50 6.00	3.50 5.00	1.50 1.75	A()CA2 A()EA	4.50 6.25	3.50 5.25	1.75 1.75	S()CD S()EB
16C	100/16	6.00 7.00	5.00 6.00	1.75 1.75	A()E A()E7	6.25 7.00	5.25 6.00	1.75 1.75	S()EB S()EB7
20A	50/20	4.50 6.00 7.00	3.50 5.00 6.00	1.50 1.75 1.75	A()CA2 A()EA A()E7	4.50 6.25 7.00	3.50 5.25 6.00	1.75 1.75 1.75	S()CD S()EB S()EB7
20B	75/20	6.00 7.00	5.00 6.00	1.75 1.75	A()E A()E7	6.25 7.00	5.25 6.00	1.75 1.75	S()EB S()EB7
20C	100/20	6.00 7.00	5.00 6.00	1.75 1.75	A()E1 A()E71	6.25 7.00	5.25 6.00	1.75 1.75	S()ED S()EB7
20C+	100+/20	6.00 7.00	5.00 6.00	1.75 1.75	A()E1 A()E71	6.25 7.00	5.25 6.00	1.75 1.75	S()ED S()EB7
24B+	75/24					6.25 7.00	5.25 6.00	1.75 1.75	S()ED S()EB7

Husky Flange-Out Ladder has the exclusive Thru-Weld construction—this completely welds rungs to the outside of the rails for optimum structural integrity and reduced side rail rotation.



Numbering System

A9BB-24-144				
A	9	BB-	24-	144
Material	Rung Spacing	Tray Type	Width in Inches	Length in Inches
Materials: A =Aluminum S =HDGAF Steel	Rung Spacing: 6" 9" 12" 18"	Tray Types: Aluminum BB,CA2,EA,PB1,PC, E,E1,E7,E71 Steel B2,FC,CD,EB,EC,ED, P61,PD4,PD7, PD74,EB7,	Widths: 6" 9" 12" 18" 24" 30" 36"	Lengths: BB,PB1,PC,B2,FC, P61,PD4, PD7,PD74 are available in 10' (120") or 12' (144"). All others available in 10' (120"), 12' (144"), 20' (240") & 24' (288")

2-FLANGE OUT LADDER

Other Technical Data


Depth:

4, 6, and 7

Fittings:

12, 24, or 36 inch standard radii (See Section 10 for details)

Splice Plates:

Straight sections and fittings are supplied with splice plates and hardware. (See Section 11 for details)

Safety Factor:

1.5 NEMA Standard

Rung Options:

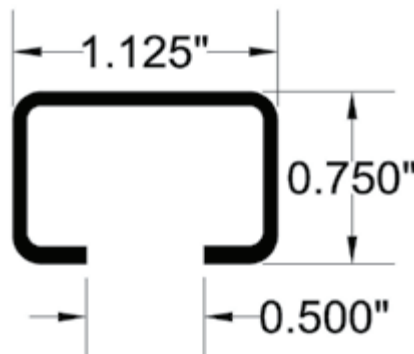
Flange-Out tray can be supplied with optional slotted rungs for ease of securing cables with tie wraps or accessories.

(For other tray sizes or specifications, please consult the factory)



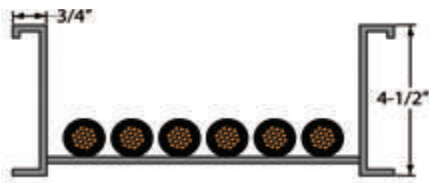
To ensure data available is most current, please visit www.MPHUSKY.com

Rung Dimensions



A () BB

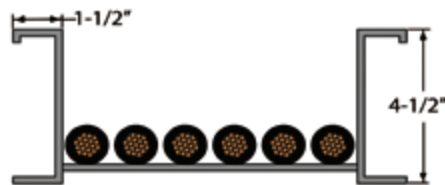
Use ALBB fittings

NEMA 12B/CSA C


Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	675	0.14	300	0.32	169	0.57	108	0.89	75	1.28
9	662*	0.14	300	0.32	169	0.57	108	0.89	75	1.28
12	497*	0.10	300	0.32	169	0.57	108	0.89	75	1.28
18	331*	0.07	300	0.32	169	0.57	108	0.89	75	1.28
24	248*	0.05	248*	0.27	169	0.57	108	0.89	75	1.28
30	199*	0.04	199*	0.21	169	0.57	108	0.89	75	1.28
36	166*	0.03	166*	0.18	166*	0.56	108	0.89	75	1.28

A () CA2

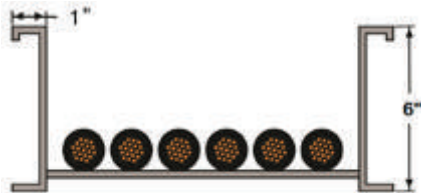
Use ALCA2 fittings

NEMA 20A, 16B, 12C+


Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	139	1.63	102	2.22	78	2.90	62	3.67	50	4.53
9	139	1.63	102	2.22	78	2.90	62	3.67	50	4.53
12	139	1.63	102	2.22	78	2.90	62	3.67	50	4.53
18	139	1.63	102	2.22	78	2.90	62	3.67	50	4.53
24	139	1.63	102	2.22	78	2.90	62	3.67	50	4.53
30	139	1.63	102	2.22	78	2.90	62	3.67	50	4.53
36	139	1.63	102	2.22	78	2.90	62	3.67	50	4.53

A () PB1

Use ALPB1 fittings

NEMA 12C


Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	981	0.09	436	0.20	245	0.36	157	0.56	109	0.80
9	662*	0.06	436	0.20	245	0.36	157	0.56	109	0.80
12	497*	0.05	436	0.20	245	0.36	157	0.56	109	0.80
18	331*	0.04	331*	0.15	245	0.36	157	0.56	109	0.80
24	248*	0.03	248*	0.11	245	0.36	157	0.56	109	0.80
30	199*	0.02	199*	0.09	199*	0.27	157	0.56	109	0.80
36	166*	0.02	166*	0.07	166*	0.55	157	0.56	109	0.80

A () PC

Use ALPC fittings

NEMA 12C+


Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	1143	0.10	508	0.22	286	0.39	183	0.61	127	0.87
9	662*	0.06	508	0.22	286	0.39	183	0.61	127	0.87
12	497*	0.04	508	0.22	286	0.39	183	0.61	127	0.87
18	331*	0.03	331*	0.14	286	0.39	183	0.61	127	0.87
24	248*	0.02	248*	0.11	286	0.39	183	0.61	127	0.87
30	199*	0.02	199*	0.09	199*	0.27	183	0.61	127	0.87
36	166*	0.02	166*	0.07	166*	0.55	166*	0.56	127	0.87

NOTE: Span length is indicated in feet. All other dimensions are in inches.

* Indicates that the load is limited by the load carrying capacity of the transverse member (rung).

A () EA

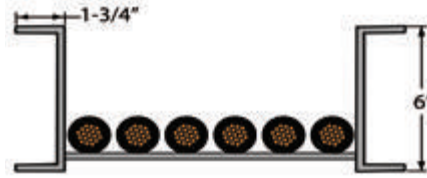
Use ALE fittings

NEMA 20A+, 16C, 12C+/CSA D

Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	167	0.72	122	0.97	94	1.28	74	1.62	60	1.99
9	167	0.72	122	0.97	94	1.28	74	1.62	60	1.99
12	167	0.72	122	0.97	94	1.28	74	1.62	60	1.99
18	167	0.72	122	0.97	94	1.28	74	1.62	60	1.99
24	167	0.72	122	0.97	94	1.28	74	1.62	60	1.99
30	167	0.72	122	0.97	94	1.28	74	1.62	60	1.99
36	166*	0.72	122	0.97	94	1.28	74	1.62	60	1.99

A () E

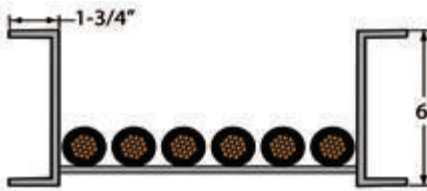
Use ALE fittings

NEMA 20B+, 16C+/CSA E

Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	236	1.05	174	1.42	132	1.87	105	2.35	85	2.90
9	236	1.05	174	1.42	132	1.87	105	2.35	85	2.90
12	236	1.05	174	1.42	132	1.87	105	2.35	85	2.90
18	236	1.05	174	1.42	132	1.87	105	2.35	85	2.90
24	236	1.05	174	1.42	132	1.87	105	2.35	85	2.90
30	199*	0.89	174	1.42	132	1.87	105	2.35	85	2.90
36	166*	0.74	166*	1.36	132	1.87	105	2.35	85	2.90

A () E1

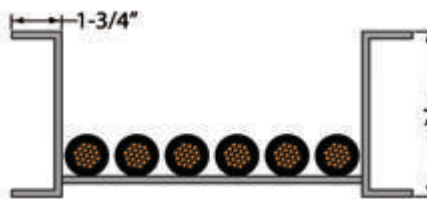
Use ALE fittings

NEMA 20C+, 16C, 12C

Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	314	1.27	231	1.73	177	2.26	140	2.86	113	3.53
9	314	1.27	231	1.73	177	2.26	140	2.86	113	3.53
12	314	1.27	231	1.73	177	2.26	140	2.86	113	3.53
18	314	1.27	231	1.73	177	2.26	140	2.86	113	3.53
24	248*	1.00	231	1.73	177	2.26	140	2.86	113	3.53
30	199*	0.81	199*	1.49	177	2.26	140	2.86	113	3.53
36	166*	0.67	166*	1.24	166*	2.12	140	2.86	113	3.53

A () E7

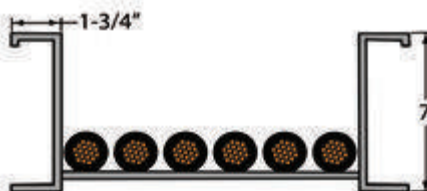
Use ALE7 fittings

NEMA 20B+, 16C+, 12C+

Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	261	0.74	192	1.00	147	1.30	116	1.65	94	2.04
9	261	0.74	192	1.00	147	1.30	116	1.65	94	2.04
12	261	0.74	192	1.00	147	1.30	116	1.65	94	2.04
18	261	0.74	192	1.00	147	1.30	116	1.65	94	2.04
24	248*	0.56	192	1.00	147	1.30	116	1.65	94	2.04
30	199*	0.56	192	1.00	147	1.30	116	1.65	94	2.04
36	166*	0.47	166*	0.87	147	1.30	116	1.65	94	2.04

A () E71

Use ALE7 fittings

NEMA 20C+, 16C+, 12C+

Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	317	0.79	233	1.07	178	1.40	141	1.77	114	2.19
9	317	0.79	233	1.07	178	1.40	141	1.77	114	2.19
12	317	0.79	233	1.07	178	1.40	141	1.77	114	2.19
18	317	0.79	233	1.07	178	1.40	141	1.77	114	2.19
24	248*	0.62	233	1.07	178	1.40	141	1.77	114	2.19
30	199*	0.50	199*	0.91	178	1.40	141	1.77	114	2.19
36	166*	0.41	166*	0.76	166*	1.20	141	1.77	114	2.19

NOTE: Span length is indicated in feet. All other dimensions are in inches.

* Indicates that the load is limited by the load carrying capacity of the transverse member (rung).

S () B2

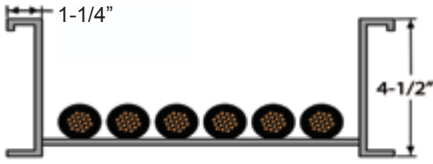
Use SLB2 fittings

NEMA 12B+


Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	810	0.09	360	0.20	203	0.35	130	0.55	90	0.71
9	749*	0.08	360	0.20	203	0.35	130	0.55	90	0.71
12	562*	0.06	360	0.20	203	0.35	130	0.55	90	0.71
18	375*	0.04	360	0.20	203	0.35	130	0.55	90	0.71
24	281*	0.03	281*	0.16	203	0.35	130	0.55	90	0.71
30	225*	0.03	225*	0.13	203	0.35	130	0.65	90	0.71
36	187*	0.02	187*	0.10	187*	0.32	130	0.65	90	0.71

S () FC

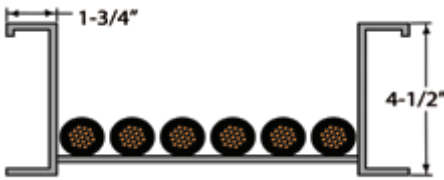
Use SLFC fittings

NEMA 12C+


Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	1124*	0.09	580	0.23	326	0.40	209	0.63	145	0.90
9	749*	0.06	580	0.23	326	0.40	209	0.63	145	0.90
12	562*	0.05	562*	0.22	326	0.40	209	0.63	145	0.90
18	375*	0.03	375*	0.15	326	0.40	209	0.63	145	0.90
24	281*	0.02	281*	0.11	248	0.42	209	0.63	145	0.90
30	225*	0.02	225*	0.09	225*	0.29	209	0.63	145	0.90
36	187*	0.02	187*	0.07	187*	0.23	187*	0.56	145	0.90

S () CD

Use SLCD fittings

NEMA 20A, 16B, 12C+


Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	147	0.77	108	1.05	83	1.37	65	1.74	53	2.15
9	147	0.77	108	1.05	83	1.37	65	1.74	53	2.15
12	147	0.77	108	1.05	83	1.37	65	1.74	53	2.15
18	147	0.77	108	1.05	83	1.37	65	1.74	53	2.15
24	147	0.77	108	1.05	83	1.37	65	1.74	53	2.15
30	147	0.77	108	1.05	83	1.37	65	1.74	53	2.15
36	147	0.77	108	1.05	83	1.37	65	1.74	53	2.15

S () P61

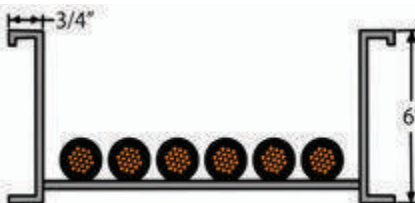
Use SLP61 fittings

NEMA 12C+


Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	1124*	0.05	520	0.12	293	0.21	187	0.33	130	0.48
9	749*	0.03	520	0.12	293	0.21	187	0.33	130	0.48
12	562*	0.03	520	0.12	293	0.21	187	0.33	130	0.48
18	375*	0.02	375*	0.09	293	0.21	187	0.33	130	0.48
24	281*	0.01	281*	0.07	196	0.17	187	0.33	130	0.48
30	225*	0.01	225*	0.05	196	0.17	187	0.33	130	0.48
36	187*	0.01	187*	0.04	187*	0.13	187	0.33	130	0.48

S () PD4

Use SLPD4 fittings

NEMA 12C+


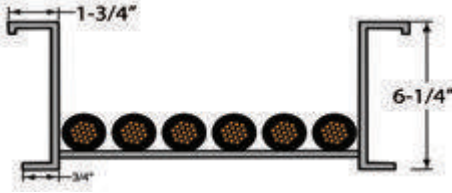
Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	1124*	0.04	800	0.17	450	0.30	288	0.47	200	0.67
9	749*	0.03	749*	0.16	450	0.30	288	0.47	200	0.67
12	562*	0.02	562*	0.12	450	0.30	288	0.47	200	0.67
18	375*	0.01	375*	0.08	375*	0.25	288	0.47	200	0.67
24	281*	0.01	281*	0.06	281*	0.19	281*	0.46	200	0.67
30	225*	0.01	225*	0.05	225*	0.15	225*	0.37	200	0.67
36	187*	0.01	187*	0.04	187*	0.13	187*	0.31	187*	0.31

NOTE: Span length is indicated in feet. All other dimensions are in inches.

* Indicates that the load is limited by the load carrying capacity of the transverse member (rung).

S () EB

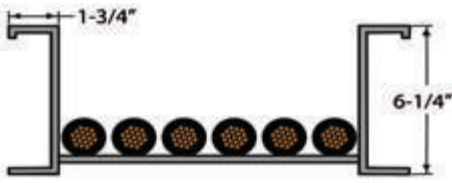
Use SLEB fittings

NEMA 20B+, 16C+, 12C+/CSA D

Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	236	0.71	173	0.97	133	1.27	105	1.61	85	1.99
9	236	0.71	173	0.97	133	1.27	105	1.61	85	1.99
12	236	0.71	173	0.97	133	1.27	105	1.61	85	1.99
18	236	0.71	173	0.97	133	1.27	105	1.61	85	1.99
24	236	0.71	173	0.97	133	1.27	105	1.61	85	1.99
30	225*	0.68	173	0.97	133	1.27	105	1.61	85	1.99
36	187*	0.56	173	0.97	133	1.27	105	1.61	85	1.99

S () ED

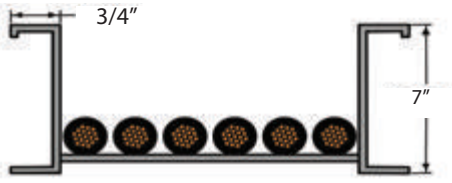
Use SLED fittings

NEMA 24B+, 20C

Span (ft.)	12		16		20		22		24	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	376	0.74	212	1.30	135	2.05	112	2.47	94	2.94
9	376	0.74	212	1.30	135	2.05	112	2.47	94	2.94
12	376	0.74	212	1.30	135	2.05	112	2.47	94	2.94
18	375*	0.74	212	1.30	135	2.05	112	2.47	94	2.94
24	281*	0.55	212	1.30	135	2.05	112	2.47	94	2.94
30	225*	0.44	212	1.30	135	2.05	112	2.47	94	2.94
36	187*	0.37	187*	1.15	135	2.05	112	2.47	94	2.94

S () PD7

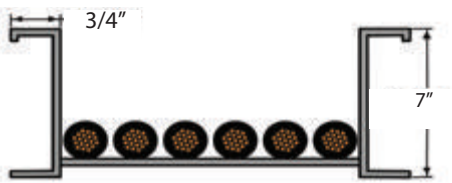
Use SLPD7 fittings

NEMA 12C

Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	900	0.03	400	0.07	225	0.12	144	0.19	100	0.28
9	749*	0.05	400	0.07	225	0.12	144	0.19	100	0.28
12	562*	0.02	400	0.07	225	0.12	144	0.19	100	0.28
18	375*	0.01	375*	0.07	225	0.12	144	0.19	100	0.28
24	281*	0.01	281*	0.07	225	0.12	144	0.19	100	0.28
30	225*	0.01	225*	0.05	225	0.12	144	0.19	100	0.28
36	187*	0.01	187*	0.05	187*	0.10	144	0.19	100	0.28

S () PD74

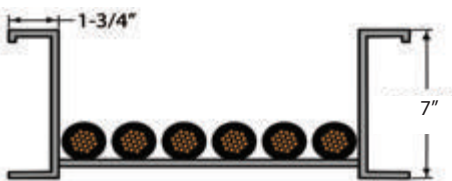
Use SLPD74 fittings

NEMA 12C+

Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	1124*	0.04	840	0.12	473	0.21	302	0.33	210	0.47
9	749*	0.03	749*	0.11	473	0.21	302	0.33	210	0.47
12	562*	0.02	562*	0.08	473	0.21	302	0.33	210	0.47
18	375*	0.01	375*	0.05	375*	0.17	302	0.33	210	0.47
24	281*	0.01	281*	0.04	281*	0.13	281*	0.31	210	0.47
30	225*	0.01	225*	0.03	225*	0.10	225*	0.25	210	0.47
36	187*	0.01	187*	0.03	187*	0.08	187*	0.20	187*	0.42

S () EB7

Use SLEB7 fittings

NEMA 24B+, 20C+

Span (ft.)	12		16		20		22		24	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	380	0.67	214	1.19	137	1.86	103	2.05	86	2.44
9	380	0.67	214	1.19	137	1.86	103	2.05	86	2.44
12	380	0.67	214	1.19	137	1.86	103	2.05	86	2.44
18	375*	0.66	214	1.19	137	1.86	103	2.05	86	2.44
24	281*	0.50	214	1.19	137	1.86	103	2.05	86	2.44
30	225*	0.40	214	1.19	137	1.86	103	2.05	86	2.44
36	187*	0.33	187*	1.04	137	1.86	103	2.05	86	2.44

NOTE: Span length is indicated in feet. All other dimensions are in inches.

* Indicates that the load is limited by the load carrying capacity of the transverse member (rung).



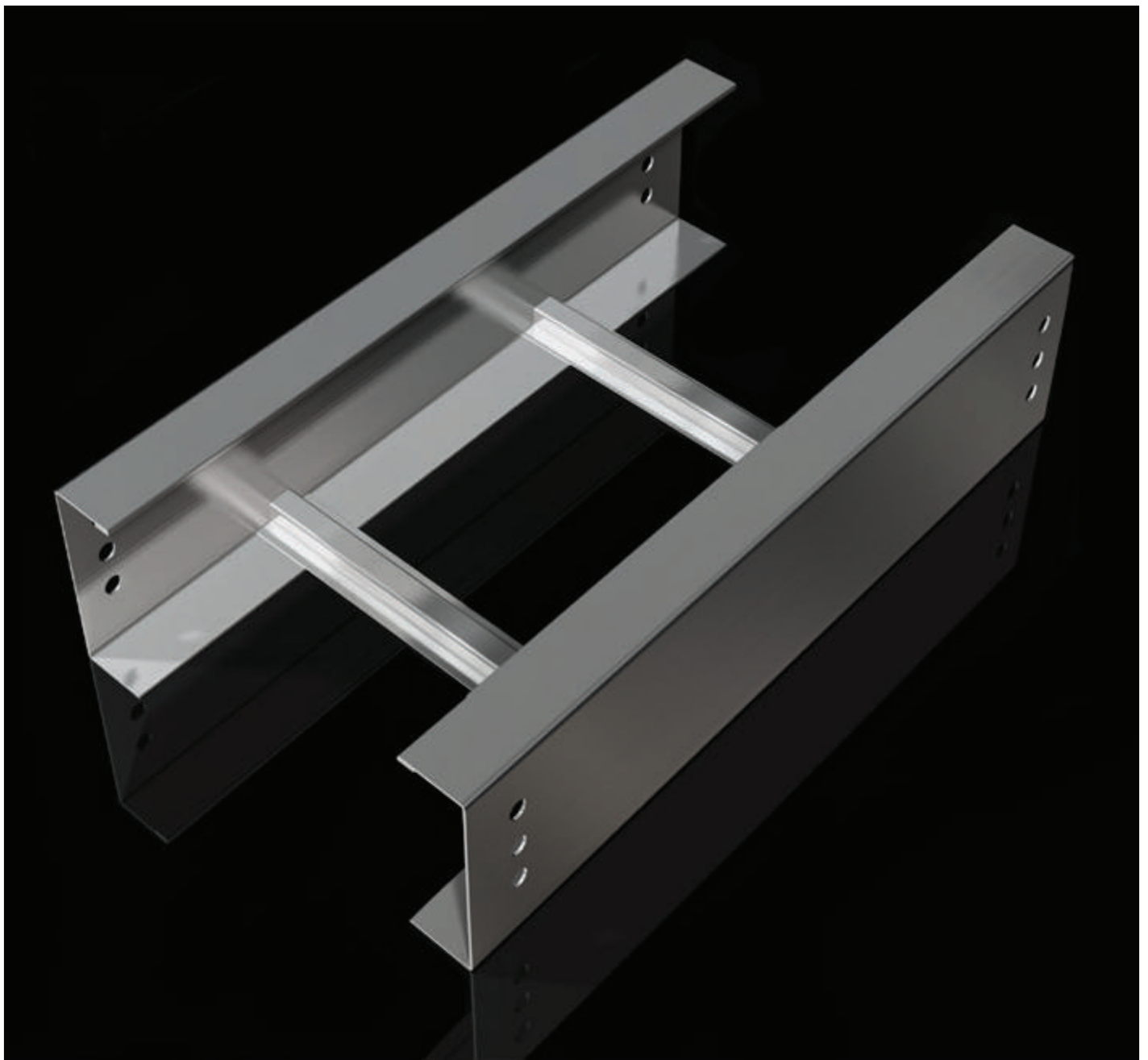


MP HUSKY[™]
CABLE TRAY & CABLE BUS

Husky Ladder Flange-In

In Steel & Aluminum

Selection Tables	Pg. 37
Numbering System.....	Pg. 38
Loading Tables.....	Pgs. 39-45





Selection Tables (For actual loading capacity see Load Tables in this section)

3-FLANGE IN
LADDER

NEMA Class	NEMA Load (lbs.) /Span (ft.)	Tray Height	Load Depth	Top Flange Width	Prefix	Tray Height	Load Depth	Top Flange Width	Prefix HDGAF	Prefix Mill-Galv
8A	50/8	4.50 6.00	3.50 5.00	.75 1.00	A()JA A()MB1	3.375 4.00 6.00	2.82 3.00 5.00	1.25 1.25 1.00	S()HA S()J2 S()M61	P()HA P()J2 P()M61
8B	75/8	4.50 6.00	3.50 5.00	.75 1.00	A()JA A()MB1	3.375 4.00 6.00	2.82 3.00 5.00	1.25 1.25 1.00	S()HA S()J2 S()M61	P()HA P()J2 P()M61
8C	100/8	4.50 6.00	3.50 5.00	.75 1.00	A()JA A()MB1	3.375 4.00 6.00	2.82 3.00 5.00	1.25 1.25 1.00	S()HA S()J2 S()M61	P()HA P()J2 P()M61
12A	50/12	4.50 6.00	3.50 5.00	.75 1.00	A()JA A()MB1	3.375 4.00 6.00	2.82 3.00 5.00	1.25 1.25 1.00	S()HA S()J2 S()M61	P()HA P()J2 P()M61
12B	75/12	4.50 6.00	3.50 5.00	.75 1.00	A()JB A()MB1	4.00 6.00	3.00 5.00	1.25 1.00	S()J2 S()M61	P()J2 P()M61
12C	100/12	4.50 6.00	3.50 5.00	1.50 1.00	A()YA2 A()MB1	4.50 6.00 7.00	3.50 5.00 6.00	1.25 .75 .75	S()KC S()MD4 S()MD7	P()KC P()MD4 P()MD7
12C+	100+/12	4.50 6.00	3.50 5.00	1.50 1.25	A()YA2 A()MC	4.50 6.00 7.00	3.50 5.00 6.00	1.75 .75 .75	S()YD S()MD4 S()MD74	S()YD P()MD4 P()MD74
16A	50/16	4.50 6.00	3.50 5.00	1.50 1.75	A()YA2 A()XA	4.50 6.25	3.50 5.25	1.75 1.75	S()YD S()XB	P()YD P()XB
16B	75/16	4.50 6.00	3.50 5.00	1.50 1.75	A()YA2 A()XA	4.50 6.25	3.50 5.25	1.75 1.75	S()YD S()XB	P()YD P()XB
16C	100/16	6.00	5.00	1.75	A()XA	6.25 7.00	5.25 6.00	1.75 1.75	S()XB S()XA7	P()XB P()XA7
20A	50/20	4.50 6.00	3.50 5.00	1.50 1.75	A()YA2 A()XA	4.50 6.25 7.00	3.50 5.25 6.00	1.75 1.75 1.75	S()YD S()XB S()XA7	P()YD P()XB P()XA7
20B	75/20	6.00 7.00	5.00 6.00	1.75 1.75	A()X A()X7	6.25 7.00	5.25 6.00	1.75 1.75	S()XB S()XB7	P()XB P()XB7
20C	100/20	6.00 7.00 8.00 10.00	5.00 6.00 7.00 9.00	1.75 1.75 1.75 1.75	A()X1 A()X71 A()L1 A()D1	6.25 7.00	5.25 6.00	1.75 1.75	S()XC S()XC7	P()XC P()XC7
20C+	100+/20	6.00 8.00 10.00	5.00 7.00 9.00	1.75 1.75 1.75	A()X1M A()L1 A()D1	6.25 7.00	5.25 6.00	1.75 1.75	S()XD S()XB7	P()XD P()XB7
24A	50/24					6.25 7.00	5.25 6.00	1.75 1.75	S()XD S()XB7	P()XD P()XB7
24B	75/24					6.25 7.00	5.25 6.00	1.75 1.75	S()XD S()XB7	P()XD P()XB7
24C	100/24					7.00	6.00	1.75	S()XD7	P()XD7

Since it accommodates the most cable in the least space, Flange-In Husky Ladder is typically used in applications where strength and reliability are important, but space is limited.

Numbering System

A9JA-24-144				
A	9	JA-	24-	144
Material	Rung Spacing	Tray Type	Width in Inches	Length in Inches
Materials: A =Aluminum S =HDGAF Steel P =Mill-Galvanized Steel 4 =Stainless Steel 304 6 =Stainless Steel 316	Rung Spacing: 6" 9" 12"	Tray Types: Aluminum JA, JB, MB1, MC, YA2, XA, X, X1, X7, X71, L1, D1 Steel HA, J2, KC, M61, MD4, YD, XA, XB, XC, XD, MD7, MD74, XA7, XB7, XC7, XD7	Widths: 6" 9" 12" 18" 24" 30" 36"	Lengths: JA,JB,MB1,MC,MD4,HA,J2, KC,M61,MD4,MD7, and MD74 available in 10' (120") & 12' (144") only All others available in 10' (120"), 12' (144"), 20' (240") & 24' (288")

3-FLANGE IN LADDER

Other Technical Data



Depth:

3-3/8, 4, 6, 7, 8, and 10 inches nominal

Fittings:

12, 24, or 36 inch standard radii

(See the Fittings Section 10 of this catalog for more information).

Splice Plates:

Straight sections and fittings are supplied with splice plates and hardware.

(See Section 11 for details)

Safety Factor:

1.5 NEMA Standard

Rung Options:

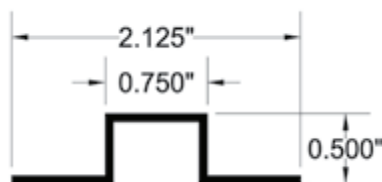
Flange-In tray can be supplied with optional slotted or strut type rungs for ease of securing cables with tie wraps, strut clamps or accessories.

(For other tray sizes or specifications, please consult the factory)

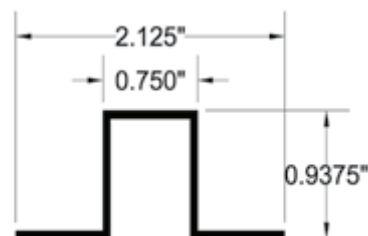


To ensure data available is most current, please visit www.MPHUSKY.com

Rung Dimensions



6"-24" Wide Aluminum Ladder
 6"-24" Wide Steel Ladder
 30"-36" Wide Steel "HA" Style Ladder



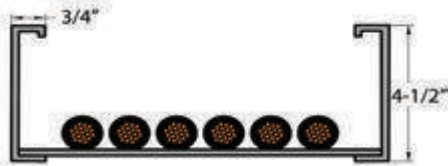
30"-36" Wide Steel & Aluminum Ladder
 (Optional Steel Rung)



A () JA

Use ALJA fittings

NEMA 12A

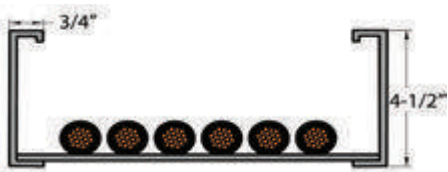


Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	540	0.15	240	0.34	135	0.61	86	0.96	60	1.38
9	540	0.15	240	0.34	135	0.61	86	0.96	60	1.38
12	405*	0.11	240	0.34	135	0.61	86	0.96	60	1.38
18	270*	0.08	240	0.34	135	0.61	86	0.96	60	1.38
24	202*	0.06	202*	0.29	135	0.61	86	0.96	60	1.38
**30	376*	0.10	240	0.34	135	0.61	86	0.96	60	1.38
**36	313*	0.09	240	0.34	135	0.61	86	0.96	60	1.38

A () JB

Use ALJB fittings

NEMA 12B+/CSA C

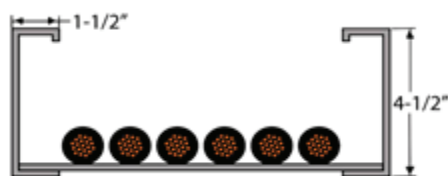


Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	735	0.16	327	0.35	184	0.62	118	0.97	82	1.40
9	540*	0.11	327	0.35	184	0.62	118	0.97	82	1.40
12	405*	0.08	327	0.35	184	0.62	118	0.97	82	1.40
18	270*	0.06	270*	0.29	184	0.62	118	0.97	82	1.40
24	202*	0.04	202*	0.22	184	0.62	118	0.97	82	1.40
**30	376*	0.08	327	0.35	184	0.62	118	0.97	82	1.40
**36	313*	0.07	313*	0.34	184	0.62	118	0.97	82	1.40

A () YA2

Use ALYA2 fittings

NEMA 20A, 16B, 12C+



Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	139	1.63	102	2.22	78	2.90	62	3.67	50	4.53
9	139	1.63	102	2.22	78	2.90	62	3.67	50	4.53
12	139	1.63	102	2.22	78	2.90	62	3.67	50	4.53
18	139	1.63	102	2.22	78	2.90	62	3.67	50	4.53
24	139	1.63	102	2.22	78	2.90	62	3.67	50	4.53
**30	139	1.63	102	2.22	78	2.90	62	3.67	50	4.53
**36	139	1.63	102	2.22	78	2.90	62	3.67	50	4.53

A () MB1

Use ALMB1 fittings

NEMA 12C, 12B+

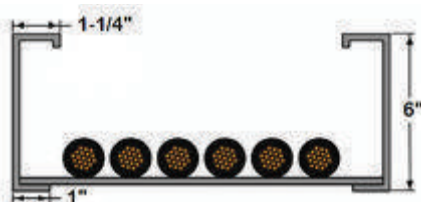


Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	810*	0.09	436	0.20	245	0.36	157	0.56	109	0.80
9	540*	0.06	436	0.20	245	0.36	157	0.56	109	0.80
12	405*	0.04	405*	0.19	245	0.36	157	0.56	109	0.80
18	270*	0.03	270*	0.12	245	0.36	157	0.56	109	0.80
24	202*	0.02	202*	0.09	202*	0.30	157	0.56	109	0.80
**30	376*	0.04	376*	0.17	245	0.36	157	0.56	109	0.80
**36	313*	0.03	313*	0.14	245	0.36	157	0.56	109	0.80

A () MC

Use ALMC fittings

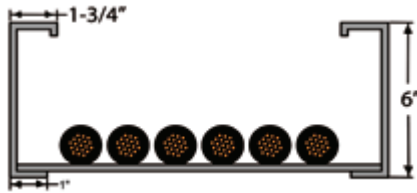
NEMA 12C+



Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	810*	0.08	508	0.22	286	0.39	183	0.61	127	0.87
9	540*	0.05	508	0.22	286	0.39	183	0.61	127	0.87
12	405*	0.04	405*	0.18	286	0.39	183	0.61	127	0.87
18	270*	0.03	270*	0.12	270*	0.37	183	0.61	127	0.87
24	202*	0.02	202*	0.09	202*	0.28	183	0.61	127	0.87
**30	376*	0.04	376*	0.16	286	0.39	183	0.61	127	0.87
**36	313*	0.03	313*	0.14	286	0.39	183	0.61	127	0.87

A () XA

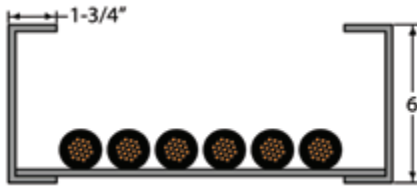
Use ALX fittings

NEMA 20A+, 16C, 12C+

Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	192	0.83	141	1.12	108	1.47	85	1.86	69	2.29
9	192	0.83	141	1.12	108	1.47	85	1.86	69	2.29
12	192	0.83	141	1.12	108	1.47	85	1.86	69	2.29
18	192	0.83	141	1.12	108	1.47	85	1.86	69	2.29
24	192	0.83	141	1.12	108	1.47	85	1.86	69	2.29
**30	192	0.83	141	1.12	108	1.47	85	1.86	69	2.29
**36	192	0.83	141	1.12	108	1.47	85	1.86	69	2.29

A () X

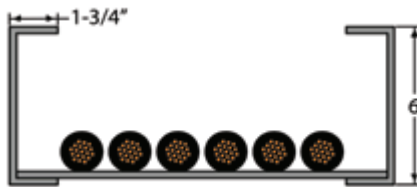
Use ALX fittings

NEMA 20B, 16C+

Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	208	0.92	153	1.26	117	1.64	93	2.08	75	2.56
9	208	0.92	153	1.26	117	1.64	93	2.08	75	2.56
12	208	0.92	153	1.26	117	1.64	93	2.08	75	2.56
18	208	0.92	153	1.26	117	1.64	93	2.08	75	2.56
24	202*	0.89	153	1.26	117	1.64	93	2.08	75	2.56
**30	208	0.92	153	1.26	117	1.64	93	2.08	75	2.56
**36	208	0.92	153	1.26	117	1.64	93	2.08	75	2.56

A () X1

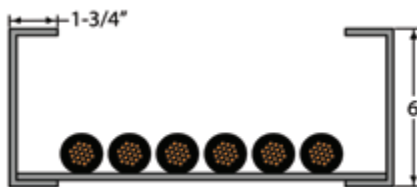
Use ALX1 fittings

NEMA 20C, 16C+

Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	278	1.13	204	1.53	156	2.00	123	2.53	100	3.13
9	278	1.13	204	1.53	156	2.00	123	2.53	100	3.13
12	278	1.13	204	1.53	156	2.00	123	2.53	100	3.13
18	270*	1.10	204	1.53	156	2.00	123	2.53	100	3.13
24	202*	0.82	202*	1.51	156	2.00	123	2.53	100	3.13
**30	278	1.13	204	1.53	156	2.00	123	2.53	100	3.13
**36	278	1.13	204	1.53	156	2.00	123	2.53	100	3.13

A () X1M

Use ALX1 fittings

NEMA 20C+, 16C+

Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	328	1.24	241	1.68	184	2.20	146	2.78	118	3.44
9	328	1.24	241	1.68	184	2.20	146	2.78	118	3.44
12	328	1.24	241	1.68	184	2.20	146	2.78	118	3.44
18	270*	1.02	241	1.68	184	2.20	146	2.78	118	3.44
24	202*	0.76	202*	1.41	184	2.20	146	2.78	118	3.44
**30	328	1.24	241	1.68	184	2.20	146	2.78	118	3.44
**36	313*	1.18	241	1.68	184	2.20	146	2.78	118	3.44

Example:

Part # A9X1-24-144				
A	9	X1-	24-	144
Material	Rung Spacing in Inches	Tray Type	Width in Inches	Length in Inches

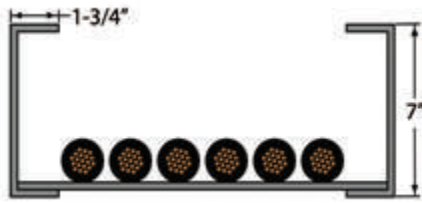
* = Load limit is limited by the load carrying capacity of the transverse member (rung).

**= Indicates the transverse member is a 15/16" high hat-shaped rung.

USE COLOR CODING TO ASSEMBLE PART NUMBER

A () X7

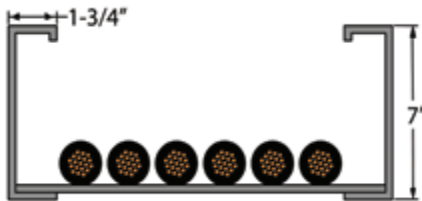
Use ALX7 fittings

NEMA 20B+, 16C+, 12C+


Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	247	0.69	182	0.94	139	1.22	110	1.55	89	1.93
9	247	0.69	182	0.94	139	1.22	110	1.55	89	1.93
12	247	0.69	182	0.94	139	1.22	110	1.55	89	1.93
18	247	0.69	182	0.94	139	1.22	110	1.55	89	1.93
24	202*	0.56	182	0.94	139	1.22	110	1.55	89	1.93
**30	247	0.69	182	0.94	139	1.22	110	1.55	89	1.93
**36	247	0.69	182	0.94	139	1.22	110	1.55	89	1.93

A () X71

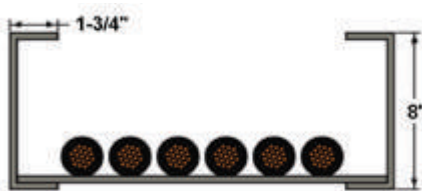
Use ALX7 fittings

NEMA 20C+, 16C+


Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	344	0.86	253	1.17	194	1.52	153	1.93	124	2.38
9	344	0.86	253	1.17	194	1.52	153	1.93	124	2.38
12	344	0.86	253	1.17	194	1.52	153	1.93	124	2.38
18	270*	0.68	253	1.17	194	1.52	153	1.93	124	2.38
24	202*	0.51	202*	0.93	194	1.52	153	1.93	124	2.38
**30	344	0.86	253	1.17	194	1.52	153	1.93	124	2.38
**36	313*	0.78	253	1.17	194	1.52	153	1.93	124	2.38

A () L1

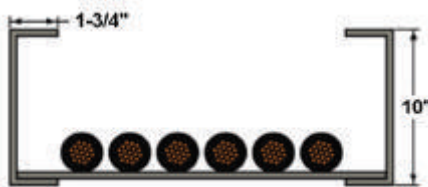
Use ALL1 fittings

NEMA 20C+, 16C+


Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	367	0.75	269	1.02	206	1.33	163	1.68	132	2.07
9	367	0.75	269	1.02	206	1.33	163	1.68	132	2.07
12	367	0.75	269	1.02	206	1.33	163	1.68	132	2.07
18	270*	0.55	269	1.02	206	1.33	163	1.68	132	2.07
24	202*	0.41	202*	0.77	202*	1.30	163	1.68	132	2.07
**30	367	0.75	269	1.02	206	1.33	163	1.68	132	2.07
**36	313*	0.64	269	1.02	206	1.33	163	1.68	132	2.07

A () D1

Use ALD1 fittings

NEMA 20C+, 16C+


Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	397	0.46	292	0.62	223	0.81	177	1.03	143	1.27
9	397	0.46	292	0.62	223	0.81	177	1.03	143	1.27
12	397	0.46	292	0.62	223	0.81	177	1.03	143	1.27
18	270*	0.31	270*	0.57	223	0.81	177	1.03	143	1.27
24	202*	0.23	202*	0.43	202*	0.73	177	1.03	143	1.27
**30	376*	0.44	292	0.62	223	0.81	177	1.03	143	1.27
**36	313*	0.36	292	0.62	223	0.81	177	1.03	143	1.27

Hot Dip Galvanized After Fabrication

S () HA

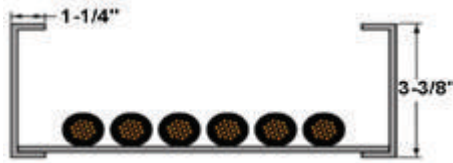
Use SLHA fittings

Mill-Galvanized

P () HA

Use PLHA fittings

NEMA 12A+



Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	585	0.10	260	0.22	146	0.40	94	0.62	65	0.89
9	573*	0.10	260	0.22	146	0.40	94	0.62	65	0.89
12	430*	0.07	260	0.22	146	0.40	94	0.62	65	0.89
18	287*	0.05	260	0.22	146	0.40	94	0.62	65	0.89
24	215*	0.04	215*	0.18	146	0.40	94	0.62	65	0.89
30	172*	0.03	172*	0.15	146	0.40	94	0.62	65	0.89
36	143*	0.02	143*	0.12	143*	0.39	94	0.62	65	0.89

Hot Dip Galvanized After Fabrication

S () J2

Use SLJ2 fittings

Mill-Galvanized

P () J2

Use PLJ2 fittings

NEMA 12B+



Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	729	0.09	324	0.19	182	0.33	117	0.52	81	0.75
9	573*	0.07	324	0.19	182	0.33	117	0.52	81	0.75
12	430*	0.05	324	0.19	182	0.33	117	0.52	81	0.75
18	287*	0.03	287*	0.17	182	0.33	117	0.52	81	0.75
24	215*	0.03	215*	0.13	182	0.33	117	0.52	81	0.75
**30	503*	0.06	324	0.19	182	0.33	117	0.52	81	0.75
**36	419*	0.05	324	0.19	182	0.33	117	0.52	81	0.75

Hot Dip Galvanized After Fabrication

S () KC

Use SLKC fittings

Mill-Galvanized

P () KC

Use PLKC fittings

NEMA 12C+



Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	860*	0.07	488	0.20	275	0.35	176	0.55	122	0.80
9	573*	0.05	488	0.20	275	0.35	176	0.55	122	0.80
12	430*	0.04	430*	0.18	275	0.35	176	0.55	122	0.80
18	287*	0.02	287*	0.12	275	0.35	176	0.55	122	0.80
24	215*	0.02	215*	0.09	215*	0.27	176	0.55	122	0.80
**30	503*	0.05	488	0.20	275	0.35	176	0.55	122	0.80
**36	419*	0.04	419*	0.17	275	0.35	176	0.55	122	0.80

Hot Dip Galvanized After Fabrication

S () YD

Use SLYD fittings

Mill-Galvanized

P () YD

Use PLYD fittings

NEMA 20A, 16B+, 12C+



Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	147	0.77	108	1.05	83	1.37	65	1.74	53	2.15
9	147	0.77	108	1.05	83	1.37	65	1.74	53	2.15
12	147	0.77	108	1.05	83	1.37	65	1.74	53	2.15
18	147	0.77	108	1.05	83	1.37	65	1.74	53	2.15
24	147	0.77	108	1.05	83	1.37	65	1.74	53	2.15
**30	147	0.77	108	1.05	83	1.37	65	1.74	53	2.15
**36	147	0.77	108	1.05	83	1.37	65	1.74	53	2.15

Hot Dip Galvanized After Fabrication

S () M61

Use SLM61 fittings

Mill-Galvanized

P () M61

Use PLM61 fittings

NEMA 12B+



Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	855	0.05	380	0.11	214	0.19	137	0.29	95	0.42
9	573*	0.03	380	0.11	214	0.19	137	0.29	95	0.42
12	430*	0.03	380	0.11	214	0.19	137	0.29	95	0.42
18	287*	0.02	287*	0.08	214	0.19	137	0.29	95	0.42
24	215*	0.01	215*	0.06	214	0.19	137	0.29	95	0.42
**30	503*	0.05	380	0.11	214	0.19	137	0.29	95	0.42
**36	419*	0.04	380	0.11	214	0.19	137	0.29	95	0.42

Hot Dip Galvanized After Fabrication

S () MD4

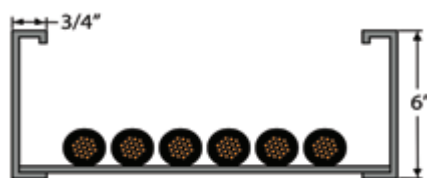
Use SLMD4 fittings

Mill-Galvanized

P () MD4

Use PLMD4 fittings

NEMA 12C+



Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	860*	0.02	520	0.11	293	0.19	187	0.30	130	0.44
9	573*	0.01	520	0.11	293	0.19	187	0.30	130	0.44
12	430*	0.01	430*	0.09	293	0.19	187	0.30	130	0.44
18	287*	0.01	287*	0.06	287*	0.19	187	0.30	130	0.44
24	215*	0.01	215*	0.05	215*	0.14	187	0.30	130	0.44
**30	503*	0.02	503*	0.11	293	0.19	187	0.30	130	0.44
**36	419*	0.02	419*	0.09	293	0.19	187	0.30	130	0.44

Hot Dip Galvanized After Fabrication

S () XB

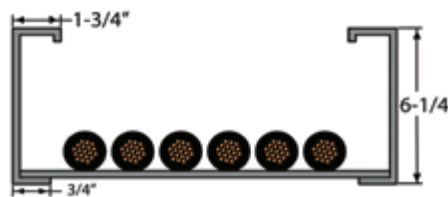
Use SLXB fittings

Mill-Galvanized

P () XB

Use PLXB fittings

NEMA 20B, 16C+, 12C+



Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	208	0.64	153	0.86	117	1.40	93	1.42	75	1.76
9	208	0.64	153	0.86	117	1.40	93	1.42	75	1.76
12	208	0.64	153	0.86	117	1.40	93	1.42	75	1.76
18	208	0.64	153	0.86	117	1.40	93	1.42	75	1.76
24	208	0.64	153	0.86	117	1.40	93	1.42	75	1.76
**30	208	0.64	153	0.86	117	1.40	93	1.42	75	1.76
**36	208	0.64	153	0.86	117	1.40	93	1.42	75	1.76

Hot Dip Galvanized After Fabrication

S () XC

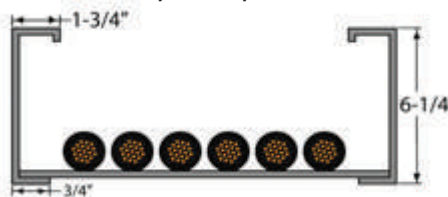
Use SLXC fittings

Mill-Galvanized

P () XC

Use PLXC fittings

NEMA 20C+, 16C+, 12C+



Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	328	0.80	241	1.04	184	1.43	146	1.81	118	2.24
9	328	0.80	241	1.04	184	1.43	146	1.81	118	2.24
12	328	0.80	241	1.04	184	1.43	146	1.81	118	2.24
18	287*	0.70	241	1.04	184	1.43	146	1.81	118	2.24
24	215*	0.52	215*	0.93	184	1.43	146	1.81	118	2.24
**30	328	0.80	241	1.04	184	1.43	146	1.81	118	2.24
**36	328	0.80	241	1.04	184	1.43	146	1.81	118	2.24

Hot Dip Galvanized After Fabrication

S () XD

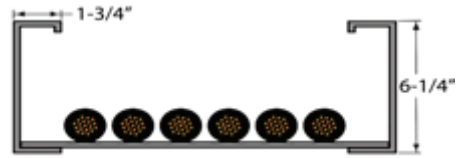
Use SLXD fittings

Mill-Galvanized

P () XD

Use PLXD fittings

NEMA 24B+, 20C+



Span (ft.)	12		16		20		22		24	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	376	0.74	212	1.30	135	2.05	119	2.32	94	2.94
9	376	0.74	212	1.30	135	2.05	119	2.32	94	2.94
12	376	0.74	212	1.30	135	2.05	119	2.32	94	2.94
18	287*	0.57	212	1.30	135	2.05	119	2.32	94	2.94
24	215*	0.42	212	1.30	135	2.05	119	2.32	94	2.94
**30	376	0.74	212	1.30	135	2.05	119	2.32	94	2.94
**36	376	0.74	212	1.30	135	2.05	119	2.32	94	2.94

Hot Dip Galvanized After Fabrication

S () MD7

Use SLMD7 fittings

Mill-Galvanized

P () MD7

Use PLMD7 fittings

NEMA 12C



Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	860*	0.03	400	0.07	225	0.12	144	0.19	100	0.28
9	573*	0.02	400	0.07	225	0.12	144	0.19	100	0.28
12	430*	0.02	400	0.07	225	0.12	144	0.19	100	0.28
18	287*	0.01	287*	0.05	225	0.12	144	0.19	100	0.28
24	215*	0.01	215*	0.04	215*	0.12	144	0.19	100	0.28
**30	503*	0.02	400	0.07	225	0.12	144	0.19	100	0.28
**36	419*	0.01	400	0.07	225	0.12	144	0.19	100	0.28

Hot Dip Galvanized After Fabrication

S () MD74

Use SLMD74 fittings

Mill-Galvanized

P () MD74

Use PLMD74 fittings

NEMA 12C+



Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	860*	0.03	840	0.12	473	0.21	302	0.33	210	0.47
9	573*	0.02	573*	0.08	473	0.21	302	0.33	210	0.47
12	430*	0.02	430*	0.06	430*	0.19	302	0.33	210	0.47
18	287*	0.01	287*	0.04	287*	0.13	287*	0.31	210	0.47
24	215*	0.01	215*	0.03	215*	0.12	215*	0.24	210	0.47
**30	503*	0.02	503*	0.07	473	0.21	302	0.33	210	0.47
**36	419*	0.01	419*	0.06	419*	0.19	302	0.33	210	0.47

Hot Dip Galvanized After Fabrication

S () XA7

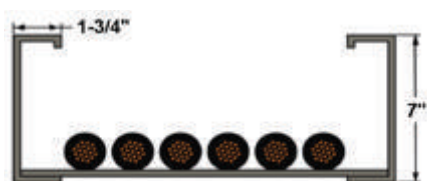
Use SLXA7 fittings

Mill-Galvanized

P () XA7

Use PLXA7 fittings

NEMA 20A+



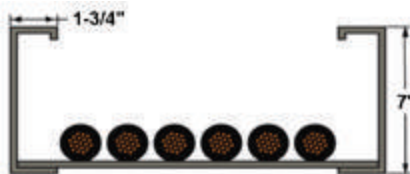
Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	192	1.22	141	1.66	108	2.16	85	2.73	69	3.38
9	192	1.22	141	1.66	108	2.16	85	2.73	69	3.38
12	192	1.22	141	1.66	108	2.16	85	2.73	69	3.38
18	192	1.22	141	1.66	108	2.16	85	2.73	69	3.38
24	192	1.22	141	1.66	108	2.16	85	2.73	69	3.38
**30	192	1.22	141	1.66	108	2.16	85	2.73	69	3.38
**36	192	1.22	141	1.66	108	2.16	85	2.73	69	3.38

Hot Dip Galvanized After Fabrication

S () XB7 Use SLXB7 fittings

Mill-Galvanized

P () XB7 Use PLXB7 fittings

NEMA 24B+, 20C+


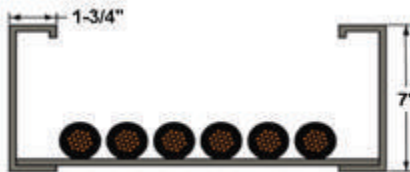
Span (ft.)	12		16		20		22		24	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	380	0.67	214	1.19	137	1.86	103	2.05	86	2.44
9	380	0.67	214	1.19	137	1.86	103	2.05	86	2.44
12	380	0.67	214	1.19	137	1.86	103	2.05	86	2.44
18	287*	0.51	214	1.19	137	1.86	103	2.05	86	2.44
24	215*	0.38	214	1.19	137	1.86	103	2.05	86	2.44
**30	380	0.67	214	1.19	137	1.86	103	2.05	86	2.44
**36	380	0.67	214	1.19	137	1.86	103	2.05	86	2.44

Hot Dip Galvanized After Fabrication

S () XC7 Use SLXC7 fittings

Mill-Galvanized

P () XC7 Use PLXC7 fittings

NEMA 20C, 20B+


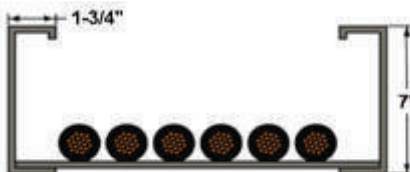
Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	292	0.44	214	0.59	164	0.77	130	0.98	105	1.21
9	292	0.44	214	0.59	164	0.77	130	0.98	105	1.21
12	292	0.44	214	0.59	164	0.77	130	0.98	105	1.21
18	287*	0.43	214	0.59	164	0.77	130	0.98	105	1.21
24	215*	0.32	214	0.59	164	0.77	130	0.98	105	1.21
**30	292	0.44	214	0.59	164	0.77	130	0.98	105	1.21
**36	292	0.44	214	0.59	164	0.77	130	0.98	105	1.21

Hot Dip Galvanized After Fabrication

S () XD7 Use SLXD7 fittings

Mill-Galvanized

P () XD7 Use PLXD7 fittings

NEMA 24C


Span (ft.)	12		14		16		20		24	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	427	0.64	314	0.87	240	1.13	154	1.77	100	2.39
9	427	0.64	314	0.87	240	1.13	154	1.77	100	2.39
12	427	0.64	314	0.87	240	1.13	154	1.77	100	2.39
18	287*	0.43	287*	0.80	240	1.13	154	1.77	100	2.39
24	215*	0.32	215*	0.60	215*	1.01	154	1.77	100	2.39
**30	427	0.64	314	0.87	240	1.13	154	1.77	100	2.39
**36	419*	0.63	314	0.87	240	1.13	154	1.77	100	2.39

Example:

Part # S9XB7-24-144				
S	9	XB7-	24-	144
Material	Rung Spacing in Inches	Tray Type	Width in Inches	Length in Inches

* = Load limit is limited by the load carrying capacity of the transverse member (rung).

** = Indicates the transverse member is a 15/16" hat shaped rung.

USE COLOR CODING TO ASSEMBLE PART NUMBER

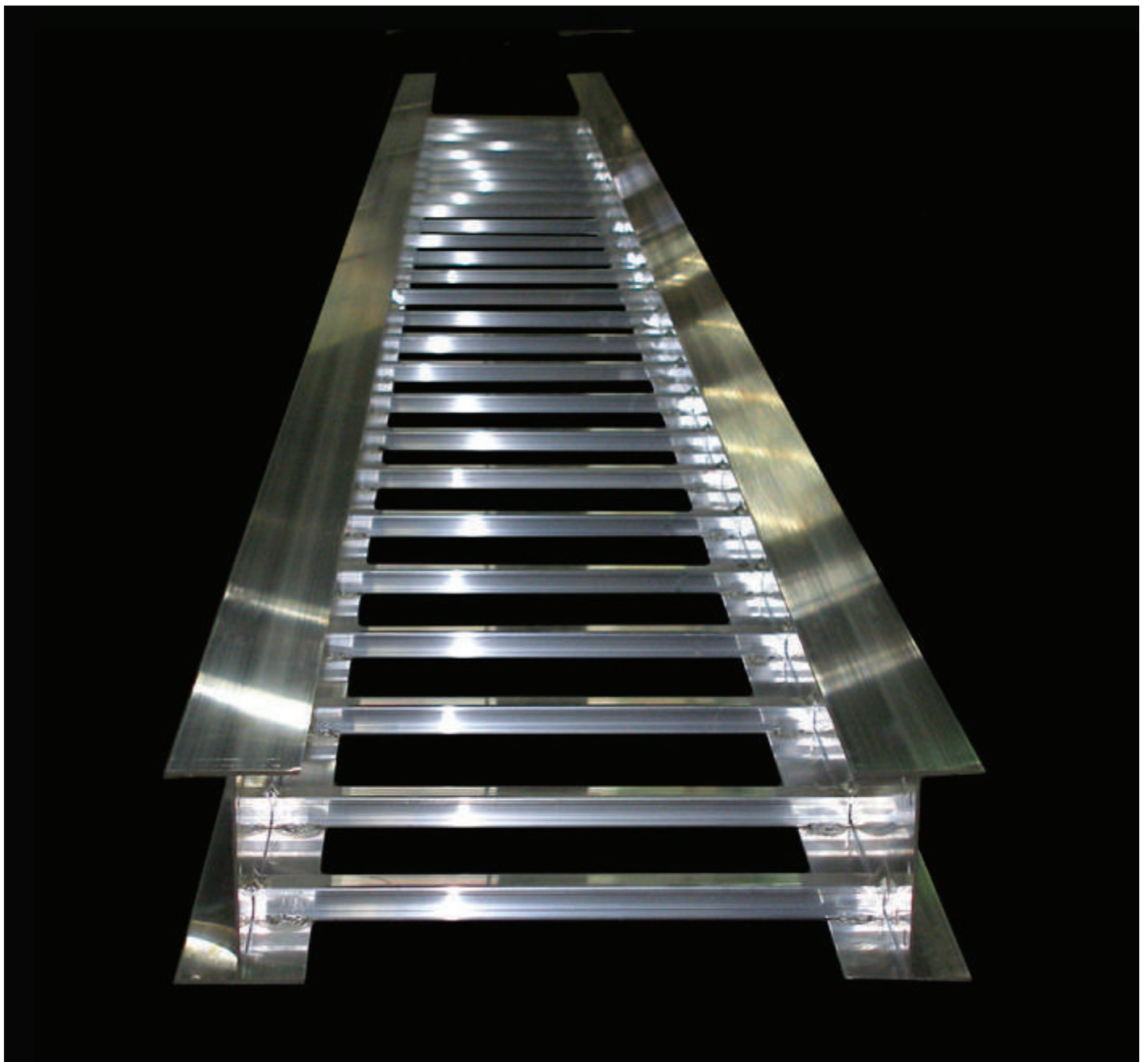


MP HUSKY[™]
CABLE TRAY & CABLE BUS

Husky I-Beam

Aluminum

Selection Tables	Pg. 47
Numbering System.....	Pg. 48
Loading Tables.....	Pgs. 49-52



Selection Tables (For actual loading capacity see Load Tables in this section)

Aluminum I-Beam Tray					
NEMA Class	NEMA Load (lbs.)/Span (ft.)	Tray Height (in)	Load Depth (in)	Top Flange Width (in)	Prefix
12A	50/12	4-1/2 6	3-1/2 5	1-1/4 2	A()IJA A()IMB
12B	75/12	4-1/2 6	3-1/2 5	1-1/4 2	A()IJB A()IMB
12C	100/12	4-1/2 6	3-1/2 5	1-1/4 2	A()IJC A()IMC
12C+	100+/12	6	5	2	A()IMD
20A	50/20	4-1/2 4-1/2 6	3-1/2 3-1/2 5	2 2 2	A()IYA A()IYB A()IXA
20B	75/20	4-1/2 6	3-1/2 5	2 2	A()IYB A()IXB
20C	100/20	4-1/2 6 7	3-1/2 5 6	2 2 2	A()IYC A()IXC A()IXD7
20C+	100+/20	6 7	5 6	2 2	A()IXD A()IXD7
24B+	75+/24	7	6	2	AIXD7
24C+	100+/24	6	5	3-1/2	A()I6
30C+	100+/30	8	7	3	A()I8

Note: See load tables for actual load information.

MP Husky now offers I-Beam style trays for customers that prefer the I-Beam style tray design or for those that want to add to existing I-Beam tray installations.





Numbering System

A9IMC-24-144				
A	9	IMC-	24-	144
Material	Rung Spacing	Tray Type	Width in Inches	Length in Inches
Materials: A= Aluminum	Rung Spacing: 6" 9" 12" 18"	Tray Types: IJA, IJB, IJC, IYA, IYB, IYC, IMB, IMC, IMD, IXA, IXB, IXC, IXD, I6, IXD7, I8	Widths: 6" 9" 12" 18" 24" 30" 36"	Lengths: IJA, IJB, IJC, IMB, IMC and IMD available in 10' (120") & 12' (144") Only All others available in 10' (120"), 12' (144"), 20' (240") & 24' (288") I8 is also available in 30' (360")

Other Technical Data


Depth:

4-1/2, 6, 7 & 8 inches

Fittings:

12, 24 & 36 inch radius

(See the Fittings Section 10 of this catalog for more information)

Splice Plates:

Bolted splice connectors (See Section 11 for details)

Safety Factor: 1.5

Rung Options:

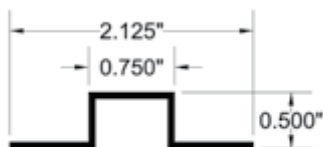
I-Beam tray can be supplied with optional slotted or strut type rungs for ease of securing cables with tie wraps, strut clamps or accessories.



(For other tray sizes or specifications, please consult the factory)

To ensure data available is most current, please visit www.MPHUSKY.com

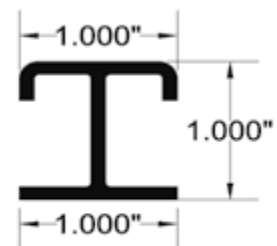
Rung Dimensions



6"-24" Wide Aluminum Ladder
Except I6 & I8



30"-36" Wide Aluminum Ladder
Except I6 & I8

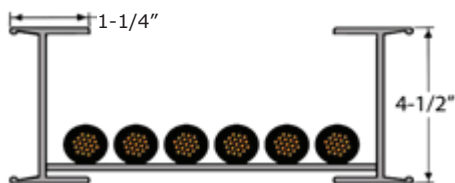


Rung used on
A()I6 & A()I8

A () IJA

Use ALIJA fittings

NEMA 12A

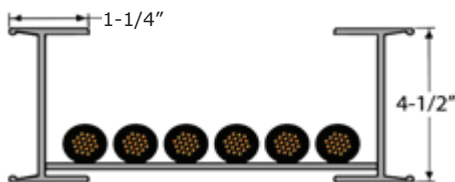


Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	513	0.09	228	0.19	128	0.34	82	0.53	57	0.77
9	513	0.09	228	0.19	128	0.34	82	0.53	57	0.77
12	405*	0.09	228	0.19	128	0.34	82	0.53	57	0.77
18	270*	0.09	228	0.19	128	0.34	82	0.53	57	0.77
24	202*	0.09	202*	0.17	128	0.34	82	0.53	57	0.77
**30	376*	0.09	228	0.19	128	0.34	82	0.53	57	0.77
**36	313*	0.09	228	0.19	128	0.34	82	0.53	57	0.77

A () IJB

Use ALIJB fittings

NEMA 12B+

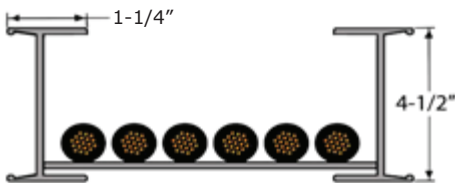


Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	810*	0.14	372	0.32	209	0.56	134	0.87	93	1.26
9	540*	0.09	372	0.32	209	0.56	134	0.87	93	1.26
12	405*	0.07	372	0.32	209	0.56	134	0.87	93	1.26
18	270*	0.05	270*	0.23	209	0.56	134	0.87	93	1.26
24	202*	0.03	202*	0.17	202*	0.54	134	0.87	93	1.26
**30	376*	0.07	372	0.32	209	0.56	134	0.87	93	1.26
**36	313*	0.05	313*	0.27	209	0.56	134	0.87	93	1.26

A () IJC

Use ALIJC fittings

NEMA 12C

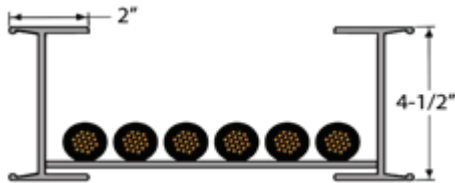


Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	810*	0.12	400	0.29	225	0.52	144	0.82	100	1.18
9	540*	0.08	400	0.29	225	0.52	144	0.82	100	1.18
12	405*	0.06	400	0.29	225	0.52	144	0.82	100	1.18
18	270*	0.04	270*	0.20	225	0.52	144	0.82	100	1.18
24	202*	0.03	202*	0.15	202*	0.47	144	0.82	100	1.18
**30	376*	0.06	376*	0.28	225	0.52	144	0.82	100	1.18
**36	313*	0.05	313*	0.23	225	0.52	144	0.82	100	1.18

A () IYA

Use ALIYA fittings

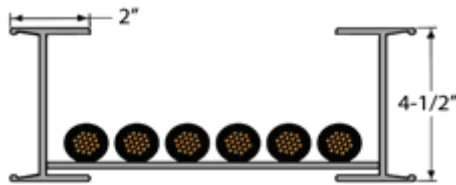
NEMA 20A+, 16C, 12C+



Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	194	1.53	143	2.09	109	2.72	86	3.45	70	4.26
9	194	1.53	143	2.09	109	2.72	86	3.45	70	4.26
12	194	1.53	143	2.09	109	2.72	86	3.45	70	4.26
18	194	1.53	143	2.09	109	2.72	86	3.45	70	4.26
24	194	1.53	143	2.09	109	2.72	86	3.45	70	4.26
**30	194	1.53	143	2.09	109	2.72	86	3.45	70	4.26
**36	194	1.53	143	2.09	109	2.72	86	3.45	70	4.26

A () IYB

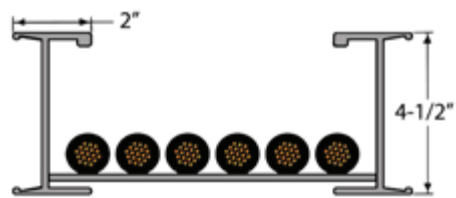
Use ALIYB fittings

NEMA 20B, 16C

Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	208	1.64	153	2.23	117	2.92	93	3.69	75	4.56
9	208	1.64	153	2.23	117	2.92	93	3.69	75	4.56
12	208	1.64	153	2.23	117	2.92	93	3.69	75	4.56
18	208	1.64	153	2.23	117	2.92	93	3.69	75	4.56
24	202*	1.59	153	2.23	117	2.92	93	3.69	75	4.56
**30	208	1.64	153	2.23	117	2.92	93	3.69	75	4.56
**36	208	1.64	153	2.23	117	2.92	93	3.69	75	4.56

A () IYC

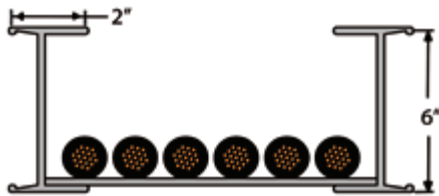
Use ALIYC fittings

NEMA 20C, 16C+

Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	278	1.99	204	2.70	156	3.53	123	4.47	100	5.52
9	278	1.99	204	2.70	156	3.53	123	4.47	100	5.52
12	278	1.99	204	2.70	156	3.53	123	4.47	100	5.52
18	270*	1.93	204	2.70	156	3.53	123	4.47	100	5.52
24	202*	1.45	202*	2.67	156	3.53	123	4.47	100	5.52
**30	278	1.99	204	2.70	156	3.53	123	4.47	100	5.52
**36	278	1.99	204	2.70	156	3.53	123	4.47	100	5.52

A () IMB

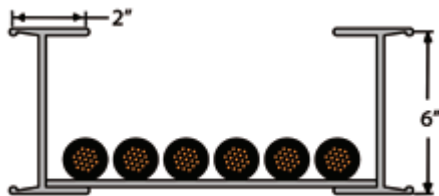
Use ALIMB fittings

NEMA 12B+

Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	747	0.05	332	0.12	187	0.21	120	0.33	83	0.47
9	540*	0.04	332	0.12	187	0.21	120	0.33	83	0.47
12	405*	0.03	332	0.12	187	0.21	120	0.33	83	0.47
18	270*	0.02	270*	0.10	187	0.21	120	0.33	83	0.47
24	202*	0.01	202*	0.07	187	0.21	120	0.33	83	0.47
**30	376*	0.03	332	0.12	187	0.21	120	0.33	83	0.47
**36	313*	0.02	313*	0.11	187	0.21	120	0.33	83	0.47

A () IMC

Use ALIMC fittings

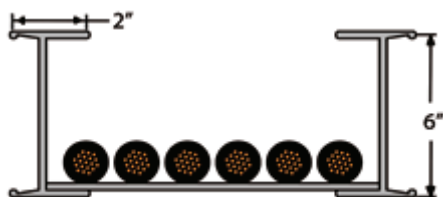
NEMA 12C

Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	810*	0.08	424	0.15	239	0.27	153	0.42	106	0.60
9	540*	0.05	424	0.15	239	0.27	153	0.42	106	0.60
12	405*	0.04	405*	0.14	239	0.27	153	0.42	106	0.60
18	270*	0.03	270*	0.10	239	0.27	153	0.42	106	0.60
24	202*	0.02	202*	0.07	202*	0.19	153	0.42	106	0.60
**30	376*	0.04	376*	0.13	239	0.27	153	0.42	106	0.60
**36	313*	0.03	313*	0.11	239	0.27	153	0.42	106	0.60

A () IMD

Use ALIMD fittings

NEMA 12C+

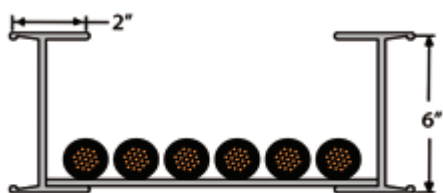


Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	810*	0.06	540	0.19	304	0.34	194	0.53	135	0.76
9	540*	0.04	540	0.19	304	0.34	194	0.53	135	0.76
12	405*	0.03	405*	0.14	304	0.34	194	0.53	135	0.76
18	270*	0.02	270*	0.10	270*	0.30	194	0.53	135	0.76
24	202*	0.02	202*	0.07	202*	0.23	194	0.53	135	0.76
**30	376*	0.03	376*	0.13	304	0.34	194	0.53	135	0.76
**36	313*	0.02	313*	0.11	304	0.34	194	0.53	135	0.76

A () IXA

Use ALIXA fittings

NEMA 20A, 16C

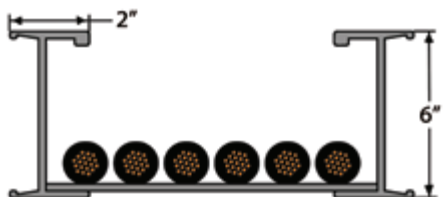


Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	192	0.83	141	1.12	108	1.47	85	1.86	69	2.29
9	192	0.83	141	1.12	108	1.47	85	1.86	69	2.29
12	192	0.83	141	1.12	108	1.47	85	1.86	69	2.29
18	192	0.83	141	1.12	108	1.47	85	1.86	69	2.29
24	192	0.83	141	1.12	108	1.47	85	1.86	69	2.29
**30	192	0.83	141	1.12	108	1.47	85	1.86	69	2.29
**36	192	0.83	141	1.12	108	1.47	85	1.86	69	2.29

A () IXB

Use ALIXB fittings

NEMA 20B+, 16C+

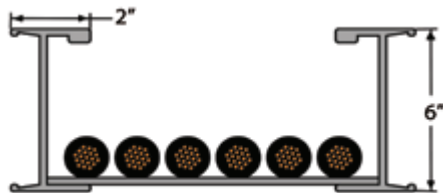


Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	264	1.11	194	1.51	148	1.97	117	2.50	95	3.08
9	264	1.11	194	1.51	148	1.97	117	2.50	95	3.08
12	264	1.11	194	1.51	148	1.97	117	2.50	95	3.08
18	264	1.11	194	1.51	148	1.97	117	2.50	95	3.08
24	202*	1.02	194	1.51	148	1.97	117	2.50	95	3.08
**30	264	1.11	194	1.51	148	1.97	117	2.50	95	3.08
**36	264	1.11	194	1.51	148	1.97	117	2.50	95	3.08

A () IXC

Use ALIXC fittings

NEMA 20C, 16C+



Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	289	1.11	212	1.51	163	1.97	128	2.49	104	3.08
9	289	1.11	212	1.51	163	1.97	128	2.49	104	3.08
12	289	1.11	212	1.51	163	1.97	128	2.49	104	3.08
18	270*	0.80	212	1.51	163	1.97	128	2.49	104	3.08
24	202*	0.78	202*	1.44	163	1.97	128	2.49	104	3.08
**30	289	1.11	212	1.51	163	1.97	128	2.49	104	3.08
**36	289	1.11	212	1.51	163	1.97	128	2.49	104	3.08

Example:

Part # A9IXC-24-144				
A	9	IXC-	24-	144
Material	Rung Spacing in Inches	Tray Type	Width in Inches	Length in Inches

USE COLOR CODING TO ASSEMBLE PART NUMBER

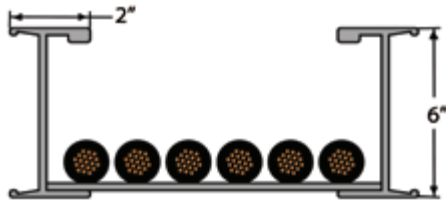
* Indicates load limit is limited by the load carrying capacity of the transverse member (rung)
 ** Indicates the transverse member is a 15/16" hat shaped rung



A () IXD

Use ALIXD fittings

NEMA 20C+

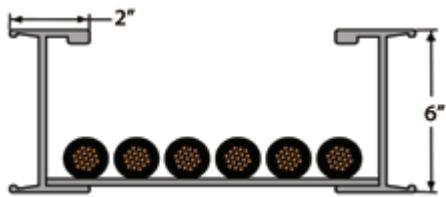


Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	314	1.20	231	1.64	177	2.14	140	2.70	113	3.34
9	314	1.20	231	1.64	177	2.14	140	2.70	113	3.34
12	314	1.20	231	1.64	177	2.14	140	2.70	113	3.34
18	270*	1.03	231	1.64	177	2.14	140	2.70	113	3.34
24	202*	0.77	202*	1.43	177	2.14	140	2.70	113	3.34
**30	314	1.20	231	1.64	177	2.14	140	2.70	113	3.34
**36	313*	1.20	231	1.64	177	2.14	140	2.70	113	3.34

A () IXM

Use ALIXM fittings
STRUT RUNG

NEMA 20C

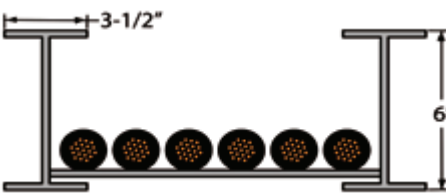


Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	297	1.14	218	1.55	167	2.03	132	2.56	107	3.16
9	297	1.14	218	1.55	167	2.03	132	2.56	107	3.16
12	297	1.14	218	1.55	167	2.03	132	2.56	107	3.16
18	270*	1.04	218	1.55	167	2.03	132	2.56	107	3.16
24	202*	0.78	202*	1.44	167	2.03	132	2.56	107	3.16
**30	297	1.14	218	1.55	167	2.03	132	2.56	107	3.16
**36	297	1.14	218	1.55	167	2.03	132	2.56	107	3.16

A () I6

Use ALI6 fittings

NEMA 24C+

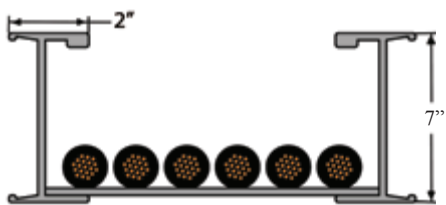


Span (ft.)	12		16		20		22		24	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
9	492	1.26	277	2.25	177	3.52	146	4.26	123	5.07
12	492	1.26	277	2.25	177	3.52	146	4.26	123	5.07
18	492	1.26	277	2.25	177	3.52	146	4.26	123	5.07
24	492	1.26	277	2.25	177	3.52	146	4.26	123	5.07
**30	461*	1.18	277	2.25	177	3.52	146	4.26	123	5.07
**36	384*	0.98	277	2.25	177	3.52	146	4.26	123	5.07

A () IXD7

Use ALIXD7 fittings

NEMA 24B+, 20C+

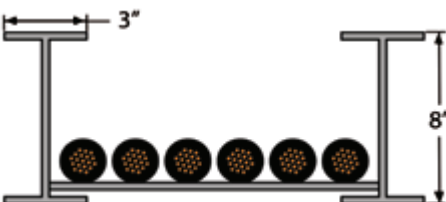


Span (ft.)	12		16		20		22		24	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	356	0.88	200	1.56	128	2.44	106	2.95	89	3.52
9	356	0.88	200	1.56	128	2.44	106	2.95	89	3.52
12	356	0.88	200	1.56	128	2.44	106	2.95	89	3.52
18	270*	0.67	200	1.56	128	2.44	106	2.95	89	3.52
24	202*	0.50	200	1.56	128	2.44	106	2.95	89	3.52
**30	356	0.88	200	1.56	128	2.44	106	2.95	89	3.52
**36	313*	0.77	200	1.56	128	2.44	106	2.95	89	3.52

A () I8

Use ALI8 fittings

NEMA 30C+, 24C+



Span (ft.)	12		16		20		24		30	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
9	732	0.66	411	1.17	263	1.82	183	2.62	117	4.10
12	732	0.66	411	1.17	263	1.82	183	2.62	117	4.10
18	732	0.66	411	1.17	263	1.82	183	2.62	117	4.10
24	576*	0.52	411	1.17	263	1.82	183	2.62	117	4.10
**30	461*	0.42	411	1.17	263	1.82	183	2.62	117	4.10
**36	384*	0.35	384*	1.09	263	1.82	183	2.62	117	4.10



MP HUSKY™
CABLE TRAY & CABLE BUS

Husky Trough Flange-In

In Steel & Aluminum

Selection Tables	Pg. 55
Alum. Vent. Numbering System	Pg. 56
Alum. Vent. Loading Tables	Pgs. 57-59
Alum. Solid Numbering System	Pg. 60
Alum. Solid Loading Tables	Pgs. 61-63
Steel Vent. Numbering System	Pg. 64
Steel Vent. Loading Tables	Pgs. 65-69
Steel Solid Numbering System	Pg. 70
Steel Solid Loading Tables	Pgs. 71-75

Husky Trough matches Husky Flange-In Ladder in most respects, except it has a continuous bottom or 4" rung spacing.





Selection Tables (For actual loading capacity see Load Tables in this section)

5-TROUGH

NEMA Class	NEMA Load (lbs./Span ft.)	Aluminum					Steel				
		Tray Height	Load Depth	Top Flange Width	Prefix Vent Bottom	Prefix Solid Bottom	Tray Height	Load Depth	Top Flange Width	Prefix Vent Bottom	Prefix Solid Bottom
8A	50/8	4.50 6.00	3.50 5.00	.75 1.00	AJA AMB1	ASJA ASMB1	3.375 4.00 6.00	2.94 3.00 5.00	1.25 1.25 1.00	SHA,PHA SJ2,PJ2 SM61,PM61	SSHA,PSHA SSJ2,PSJ2 SSM61,PSM61
8B	75/8	4.50 6.00	3.50 5.00	.75 1.00	AJA AMB1	ASJA ASMB1	3.375 4.00 6.00	2.94 3.00 5.00	1.25 1.25 1.00	SHA,PHA SJ2,PJ2 SM61,PM61	SSHA,PSHA SSJ2,PSJ2 SSM61,PSM61
8C	100/8	4.50 6.00	3.50 5.00	.75 1.00	AJA AMB1	ASJA ASMB1	3.375 4.00 6.00	2.94 3.00 5.00	1.25 1.25 1.00	SHA,PHA SJ2,PJ2 SM61,PM61	SSHA,PSHA SSJ2,PSJ2 SSM61,PSM61
12A	50/12	4.50 6.00	3.50 5.00	.75 1.00	AJA AMB1	ASJA ASMB1	3.375 4.00 6.00	2.94 3.00 5.00	1.25 1.25 1.00	SHA,PHA SJ2,PJ2 SM61,PM61	SSHA,PSHA SSJ2,PSJ2 SSM61,PSM61
12B	75/12	4.50 6.00	3.50 5.00	.75 1.00	AJB AMB1	ASJB ASMB1	3.75 4.00 6.00	2.94 3.00 5.00	1.25 1.25 1.00	SHA,PHA SJ2,PJ2 SM61,PM61	SSHA,PSHA SSJ2,PSJ2 SSM61,PSM61
12C	100/12	4.50 6.00	3.50 5.00	1.50 1.00	AYA2 AMB1	ASYA2 ASMB1	4.50 6.00 6.00 7.00	3.50 5.00 5.00 6.00	1.25 1.00 .75 .75	SKC,PKC SM61,PM61 SMD4,PMD4 SMD7,PMD7	SSKC,PSKC SSM61,PSM61 SSMD4,PSMD4 SSMD7,PSMD7
12C+	100+/12	4.50 6.00	3.50 5.00	1.50 1.25	AYA2 AMC	ASYA2 ASMC	6.00 7.00 7.00	5.00 6.00 6.00	.75 .75 .75	SMD4,PMD4 SMD7,PMD7 SMD74,PMD74	SSMD4,PSMD4 SSMD7,PSMD7 SSMD74,PSMD74
16A	50/16	4.50 6.00	3.50 5.25	1.50 1.75	AYA2 AXA	ASYA2 ASXA	4.50 6.25 7.00	3.50 5.25 6.00	1.75 1.75 1.75	SYD,PYD SXB,PXB SXB7,PXB7	SSYD,PSYD SSXB,PSXB SSXB7,PSXB7
16B	75/16	4.50 6.00	3.50 5.25	1.50 1.75	AYA2 AXA	ASYA2 ASXA	4.50 6.25 7.00	3.50 5.25 6.00	1.75 1.75 1.75	SYD,PYD SXB,PXB SXB7,PXB7	SSYD,PSYD SSXB,PSXB SSXB7,PSXB7
16C	100/16	6.00	5.00	1.75	AXA	ASXA	6.25 7.00	5.25 6.00	1.75 1.75	SXB,PXB SXB7,PXB7	SSXB,PSXB SSXB7,PSXB7
20A	50/20	4.50 6.00	3.50 5.00	1.50 1.75	AYA2 AXA	ASYA2 ASXA	4.50 6.25 7.00	3.50 5.25 6.00	1.75 1.75 1.75	SYD,PYD SXB,PXB SXB7,PXB7	SSYD,PSYD SSXB,PSXB SSXB7,PSXB7
20B	75/20	6.00 7.00	5.00 6.00	1.75 1.75	AX AX7	ASX ASX7	6.25 7.00	5.25 6.00	1.75 1.75	SXB,PXB SXB7,PXB7	SSXB,PSXB SSXB7,PSXB7
20C	100/20	6.00 7.00 8.00 10.00	5.00 6.00 7.00 9.00	1.75 1.75 1.75 1.75	AX1 AX71 AL1 AD1	ASX1 ASX71 ASL1 ASD1	6.25 7.00	5.25 6.00	1.75 1.75	SXC,PXC SXB7,PXB7	SSXC,PSXC SSXB7,PSXB7
20C+	100+/20						6.25 7.00	5.25 6.00	1.75 1.75	SXD,PXD SXB7,PXB7	SSXD,PSXD SSXB7,PSXB7
24A	50/24						6.25	5.25	1.75	SXD,PXD	SSXD,PSXD
24B	75/24						6.25 7.00	5.25 6.00	1.75 1.75	SXD,PXD SXB7,PXB7	SSXD,PSXD SSXB7,PSXB7



Aluminum Ventilated Trough Numbering System

AJA-24-144				
A	()	JA-	24-	144
Material	Bottom	Tray Type	Width in Inches	Length in Inches
Materials: A=Aluminum	Bottom Leave this space blank for 6"-24" Wide Ventilated Trough Insert "4" for 4" Rung Spacing 30" & 36" wide Ventilated Trough	Tray Types: Aluminum JA, JB, MB1, MC, YA2, XA, X, X1, X7, X71, L1, D1	Widths: 6" 9" 12" 18" 24" 30" 36"	Lengths: JA, JB, MB1, MC available in 10' (120") & 12' (144") only All others available in 10' (120"), 12' (144"), 20' (240") & 24' (288")

S-TROUGH

Other Technical Data


Depth:

4-1/2, 6, 7, 8, & 10 inches nominal

Fittings:

12, 24, or 36 inch standard radii (See the Fittings Section 10 of this catalog)

Trough Bottoms:

All troughs 6" - 24" wide have corrugated ventilated bottoms. 30" and 36" wide have 4" rung spacing.

Splice Plates:

Straight sections and fittings are supplied with splice plates and hardware. (See Section 11 for details)

Safety Factor:

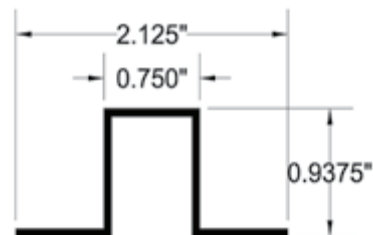
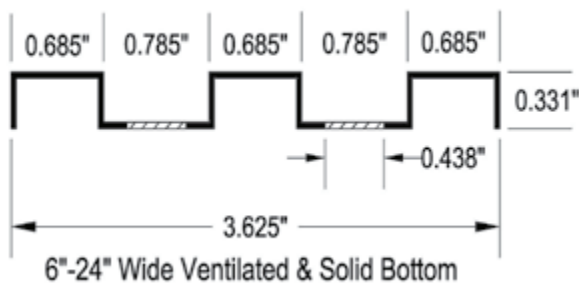
1.5 NEMA Standard

(For other tray sizes or specifications, please consult the factory)



To ensure data available is most current, please visit www.MPHUSKY.com

Bottom Dimensions



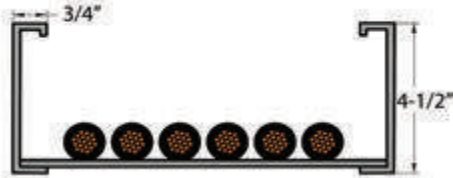
4" Rung Spacing in Steel & Aluminum

A JA

 6"-24" only
Use AJA fitting

A 4 JA

 30" & 36" only
Use A4JA fittings

NEMA 12A/CSA C


Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	540	0.15	240	0.34	135	0.61	86	0.96	60	1.38
9	540	0.15	240	0.34	135	0.61	86	0.96	60	1.38
12	457*	0.13	240	0.34	135	0.61	86	0.96	60	1.38
18	305*	0.09	240	0.34	135	0.61	86	0.96	60	1.38
24	229*	0.07	229*	0.32	135	0.61	86	0.96	60	1.38
30	540	0.15	240	0.34	135	0.61	86	0.96	60	1.38
36	540	0.15	240	0.34	135	0.61	86	0.96	60	1.38

Blue = Corrugated Bottom

Red = 4" Rung Spacing

A JB

 6"-24" only
Use AJB fitting

A 4 JB

 30" & 36" only
Use A4JB fittings

NEMA 12B/CSA C


Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	675	0.14	300	0.32	169	0.57	108	0.89	75	1.28
9	610*	0.13	300	0.32	169	0.57	108	0.89	75	1.28
12	457*	0.10	300	0.32	169	0.57	108	0.89	75	1.28
18	305*	0.06	300	0.32	169	0.57	108	0.89	75	1.28
24	229*	0.05	229*	0.24	169	0.57	108	0.89	75	1.28
30	675	0.14	300	0.32	169	0.57	108	0.89	75	1.28
36	675	0.14	300	0.32	169	0.57	108	0.89	75	1.28

Blue = Corrugated Bottom

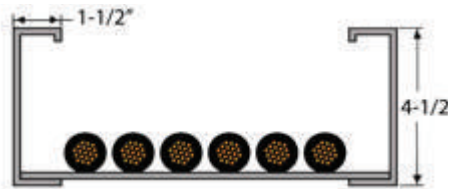
Red = 4" Rung Spacing

A YA2

 6"-24" only
Use AYA2 fitting

A 4 YA2

 30" & 36" only
Use A4YA2 fittings

NEMA 20A, 16B, 12C+


Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	139	1.63	102	2.22	78	2.90	62	3.67	50	4.53
9	139	1.63	102	2.22	78	2.90	62	3.67	50	4.53
12	139	1.63	102	2.22	78	2.90	62	3.67	50	4.53
18	139	1.63	102	2.22	78	2.90	62	3.67	50	4.53
24	139	1.63	102	2.22	78	2.90	62	3.67	50	4.53
30	139	1.63	102	2.22	78	2.90	62	3.67	50	4.53
36	139	1.63	102	2.22	78	2.90	62	3.67	50	4.53

Blue = Corrugated Bottom

Red = 4" Rung Spacing

A MB1

 6"-24" only
Use AMB1 fitting

A 4 MB1

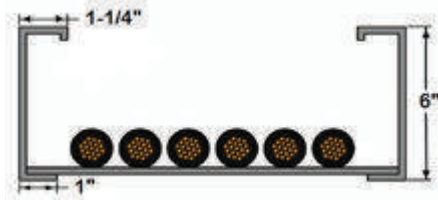
 30" & 36" only
Use A4MB1 fittings

NEMA 12C, 12B


Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	916*	0.10	436	0.20	245	0.36	157	0.56	109	0.80
9	610*	0.07	436	0.20	245	0.36	157	0.56	109	0.80
12	457*	0.05	436	0.20	245	0.36	157	0.56	109	0.80
18	305*	0.03	305*	0.14	245	0.36	157	0.56	109	0.80
24	229*	0.03	229*	0.11	229*	0.34	157	0.56	109	0.80
30	981	0.09	436	0.20	245	0.36	157	0.56	109	0.80
36	940*	0.09	436	0.20	245	0.36	157	0.56	109	0.80

Blue = Corrugated Bottom

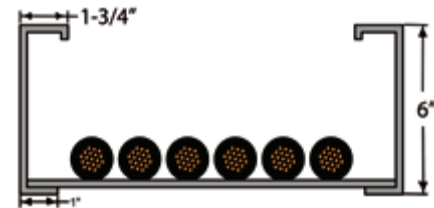
Red = 4" Rung Spacing

**A MC**6"-24" only
Use AMC fitting**A 4 MC**30" & 36" only
Use A4MC fittings**NEMA 12C+**

Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	916*	0.08	508	0.22	286	0.39	183	0.61	127	0.87
9	610*	0.05	508	0.22	286	0.39	183	0.61	127	0.87
12	457*	0.04	457*	0.20	286	0.39	183	0.61	127	0.87
18	305*	0.03	305*	0.13	286	0.39	183	0.61	127	0.87
24	229*	0.02	229*	0.10	229*	0.10	183	0.61	127	0.87
30	1128*	0.06	508	0.22	286	0.39	183	0.61	127	0.87
36	940*	0.06	508	0.22	286	0.39	183	0.61	127	0.87

Blue = Corrugated Bottom

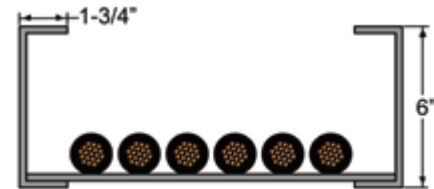
Red = 4" Rung Spacing

A XA6"-24" only
Use AXA fitting**A 4 XA**30" & 36" only
Use A4XA fittings**NEMA 20A, 16C, 12C**

Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	192	0.83	141	1.12	108	1.47	85	1.86	69	2.29
9	192	0.83	141	1.12	108	1.47	85	1.86	69	2.29
12	192	0.83	141	1.12	108	1.47	85	1.86	69	2.29
18	192	0.83	141	1.12	108	1.47	85	1.86	69	2.29
24	192	0.83	141	1.12	108	1.47	85	1.86	69	2.29
30	192	0.83	141	1.12	108	1.47	85	1.86	69	2.29
36	192	0.83	141	1.12	108	1.47	85	1.86	69	2.29

Blue = Corrugated Bottom

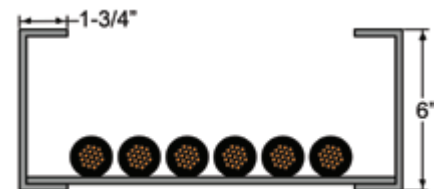
Red = 4" Rung Spacing

A X6"-24" only
Use AX fitting**A 4 X**30" & 36" only
Use A4X fittings**NEMA 20B, 16C, 12C**

Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	208	0.92	153	1.26	117	1.64	93	2.08	75	2.56
9	208	0.92	153	1.26	117	1.64	93	2.08	75	2.56
12	208	0.92	153	1.26	117	1.64	93	2.08	75	2.56
18	208	0.92	153	1.26	117	1.64	93	2.08	75	2.56
24	208	0.92	153	1.26	117	1.64	93	2.08	75	2.56
30	208	0.92	153	1.26	117	1.64	93	2.08	75	2.56
36	208	0.92	153	1.26	117	1.64	93	2.08	75	2.56

Blue = Corrugated Bottom

Red = 4" Rung Spacing

A X16"-24" only
Use AX fitting**A 4 X1**30" & 36" only
Use A4X1 fittings**NEMA 20C, 16C, 12C**

Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	278	1.13	204	1.53	156	2.00	123	2.53	100	3.13
9	278	1.13	204	1.53	156	2.00	123	2.53	100	3.13
12	278	1.13	204	1.53	156	2.00	123	2.53	100	3.13
18	278	1.13	204	1.53	156	2.00	123	2.53	100	3.13
24	229*	0.93	204	1.53	156	2.00	123	2.53	100	3.13
30	278	1.13	204	1.53	156	2.00	123	2.53	100	3.13
36	278	1.13	204	1.53	156	2.00	123	2.53	100	3.13

Blue = Corrugated Bottom

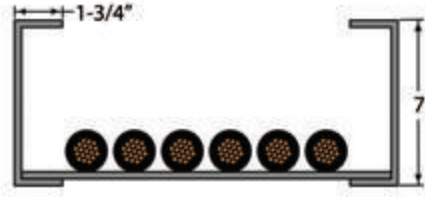
Red = 4" Rung Spacing

A X7

 6"-24" only
Use AX7 fitting

A 4 X7

 30" & 36" only
Use A4X7 fittings

NEMA 20B+, 16C, 12C


Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	247	0.69	182	0.94	139	1.22	110	1.55	89	1.93
9	247	0.69	182	0.94	139	1.22	110	1.55	89	1.93
12	247	0.69	182	0.94	139	1.22	110	1.55	89	1.93
18	247	0.69	182	0.94	139	1.22	110	1.55	89	1.93
24	229*	0.64	182	0.94	139	1.22	110	1.55	89	1.93
30	247	0.69	182	0.94	139	1.22	110	1.55	89	1.93
36	247	0.69	182	0.94	139	1.22	110	1.55	89	1.93

Blue = Corrugated Bottom

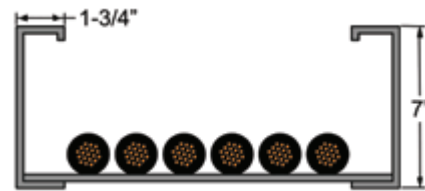
Red = 4" Rung Spacing

A X71

 6"-24" only
Use AX7 fitting

A 4 X71

 30" & 36" only
Use A4X7 fittings

NEMA 20C, 16C


Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	278	0.69	204	0.94	156	1.23	123	1.56	100	1.92
9	278	0.69	204	0.94	156	1.23	123	1.56	100	1.92
12	278	0.69	204	0.94	156	1.23	123	1.56	100	1.92
18	278	0.69	204	0.94	156	1.23	123	1.56	100	1.92
24	229*	0.57	204	0.94	156	1.23	123	1.56	100	1.92
30	278	0.69	204	0.94	156	1.23	123	1.56	100	1.92
36	278	0.69	204	0.94	156	1.23	123	1.56	100	1.92

Blue = Corrugated Bottom

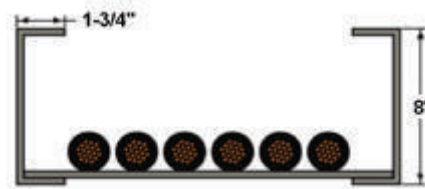
Red = 4" Rung Spacing

A L1

 6"-24" only
Use AL1 fitting

A 4 L1

 30" & 36" only
Use A4L1 fittings

NEMA 20C+, 16C+, 12C


Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	367	0.75	269	1.02	206	1.33	163	1.68	132	2.07
9	367	0.75	269	1.02	206	1.33	163	1.68	132	2.07
12	367	0.75	269	1.02	206	1.33	163	1.68	132	2.07
18	305*	0.62	269	1.02	206	1.33	163	1.68	132	2.07
24	229*	0.47	229*	0.87	206	1.33	163	1.68	132	2.07
30	367	0.75	269	1.02	206	1.33	163	1.68	132	2.07
36	367	0.75	269	1.02	206	1.33	163	1.68	132	2.07

Blue = Corrugated Bottom

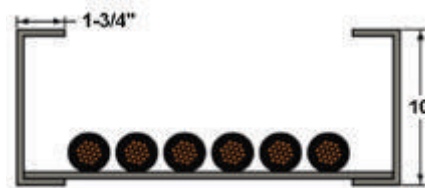
Red = 4" Rung Spacing

A D1

 6"-24" only
Use AD1 fitting

A 4 D1

 30" & 36" only
Use A4D1 fittings

NEMA 20C+, 16C+, 12C


Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	397	0.46	292	0.62	223	0.81	177	1.03	143	1.27
9	397	0.46	292	0.62	223	0.81	177	1.03	143	1.27
12	397	0.46	292	0.62	223	0.81	177	1.03	143	1.27
18	305*	0.35	292	0.62	223	0.81	177	1.03	143	1.27
24	229*	0.27	229*	0.49	223	0.81	177	1.03	143	1.27
30	397	0.46	292	0.62	223	0.81	177	1.03	143	1.27
36	397	0.46	292	0.62	223	0.81	177	1.03	143	1.27

Blue = Corrugated Bottom

Red = 4" Rung Spacing



Aluminum Solid Bottom Trough Numbering System

ASJA-30-144				
A	S	JA-	30-	144
Material	Bottom Type	Tray Type	Width in Inches	Length in Inches
Materials: A=Aluminum	Bottom S= Solid Bottom	Tray Types: Aluminum JA, JB, MB1, MC, YA2, XA, X, X1, X7, X71, L1, D1	Widths: 6" 9" 12" 18" 24" 30" 36"	Lengths: JA, JB, MB1, MC available in 10' (120") & 12' (144") only All others available in 10' (120"), 12' (144"), 20' (240") & 24' (288")

S-TROUGH

Other Technical Data



Depth:

4-1/2, 6, 7, 8, & 10 inches nominal

Fittings:

12, 24, or 36 inch standard radii
(See the Fittings Section 10 of this catalog)

Trough Bottoms:

All troughs 6" - 24" wide have solid corrugated bottoms. 30" and 36" wide have (-06C) solid bottom.

Splice Plates:

Straight sections and fittings are supplied with splice plates and hardware. (See Section 11 for details)

Safety Factor:

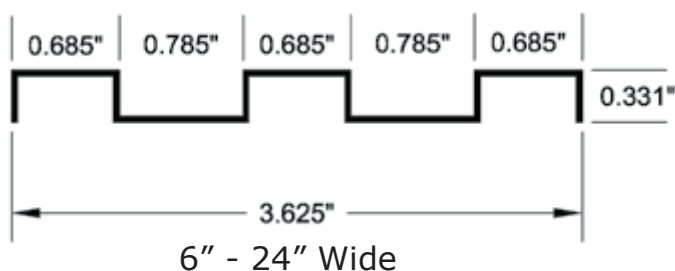
1.5 NEMA Standard



(For other tray sizes or specifications, please consult the factory)

To ensure data available is most current, please visit www.MPHUSKY.com

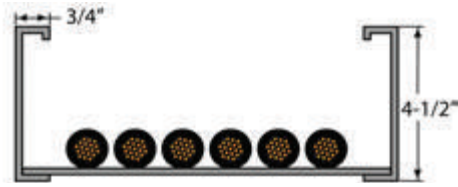
Bottom Dimensions



A S JA

Use ASJA fittings

NEMA 12A/CSA C



Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	540	0.15	240	0.34	135	0.61	86	0.96	60	1.38
9	540	0.15	240	0.34	135	0.61	86	0.96	60	1.38
12	540	0.15	240	0.34	135	0.61	86	0.96	60	1.38
18	464*	0.13	240	0.34	135	0.61	86	0.96	60	1.38
24	348*	0.10	240	0.34	135	0.61	86	0.96	60	1.38
**30	540	0.15	240	0.34	135	0.61	86	0.96	60	1.38
**36	540	0.15	240	0.34	135	0.61	86	0.96	60	1.38

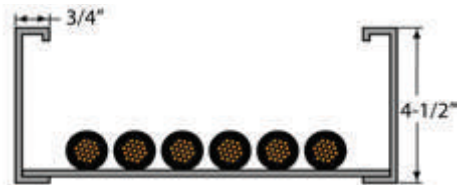
Blue = Corrugated Bottom

Red = -06C Corrugated Bottom

A S JB

Use ASJB fittings

NEMA 12B/CSA C



Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	675	0.14	300	0.32	169	0.57	108	0.89	75	1.28
9	675	0.14	300	0.32	169	0.57	108	0.89	75	1.28
12	675	0.14	300	0.32	169	0.57	108	0.89	75	1.28
18	464*	0.10	300	0.32	169	0.57	108	0.89	75	1.28
24	348*	0.07	300	0.32	169	0.57	108	0.89	75	1.28
**30	675	0.14	300	0.32	169	0.57	108	0.89	75	1.28
**36	675	0.14	300	0.32	169	0.57	108	0.89	75	1.28

Blue = Corrugated Bottom

Red = -06C Corrugated Bottom

A S YA2

Use ASYA2 fittings

NEMA 20A, 16B, 12C



Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	139	1.63	102	2.22	78	2.90	62	3.67	50	4.53
9	139	1.63	102	2.22	78	2.90	62	3.67	50	4.53
12	139	1.63	102	2.22	78	2.90	62	3.67	50	4.53
18	139	1.63	102	2.22	78	2.90	62	3.67	50	4.53
24	139	1.63	102	2.22	78	2.90	62	3.67	50	4.53
**30	139	1.63	102	2.22	78	2.90	62	3.67	50	4.53
**36	139	1.63	102	2.22	78	2.90	62	3.67	50	4.53

Blue = Corrugated Bottom

Red = -06C Corrugated Bottom

A S MB1

Use ASMB1 fittings

NEMA 12C, 12B+



Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	981	0.09	436	0.20	245	0.36	157	0.56	109	0.80
9	929*	0.09	436	0.20	245	0.36	157	0.56	109	0.80
12	697*	0.06	436	0.20	245	0.36	157	0.56	109	0.80
18	464*	0.04	436	0.20	245	0.36	157	0.56	109	0.80
24	348*	0.03	348*	0.16	245	0.36	157	0.56	109	0.80
**30	835*	0.08	436	0.20	245	0.36	157	0.56	109	0.80
**36	696*	0.06	436	0.20	245	0.36	157	0.56	109	0.80

Blue = Corrugated Bottom

Red = -06C Corrugated Bottom

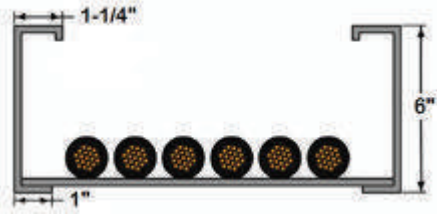
Example:

Part # ASMC-24-144				
A	S	MC-	24-	144
Material	Solid Bottom	Tray Type	Width in Inches	Length in Inches

USE COLOR CODING TO ASSEMBLE PART NUMBER

**A S MC**

Use ASMC fittings

NEMA 12C+

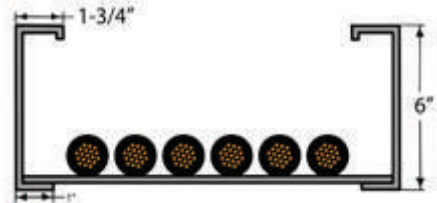
**Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	1143	0.10	508	0.22	286	0.39	183	0.61	127	0.87
9	929*	0.08	508	0.22	286	0.39	183	0.61	127	0.87
12	697*	0.06	508	0.22	286	0.39	183	0.61	127	0.87
18	464*	0.04	464*	0.20	286	0.39	183	0.61	127	0.87
24	348*	0.03	348*	0.15	286	0.39	183	0.61	127	0.87
**30	835*	0.07	508	0.22	286	0.39	183	0.61	127	0.87
**36	696*	0.06	508	0.22	286	0.39	183	0.61	127	0.87

Blue = Corrugated Bottom

Red = -06C Corrugated Bottom

A S XA

Use ASX fittings

NEMA 20A, 16C, 12C

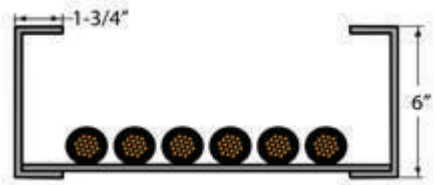
Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	192	0.83	141	1.12	108	1.47	85	1.86	69	2.29
9	192	0.83	141	1.12	108	1.47	85	1.86	69	2.29
12	192	0.83	141	1.12	108	1.47	85	1.86	69	2.29
18	192	0.83	141	1.12	108	1.47	85	1.86	69	2.29
24	192	0.83	141	1.12	108	1.47	85	1.86	69	2.29
**30	192	0.83	141	1.12	108	1.47	85	1.86	69	2.29
**36	192	0.83	141	1.12	108	1.47	85	1.86	69	2.29

Blue = Corrugated Bottom

Red = -06C Corrugated Bottom

A S X

Use ASX fittings

NEMA 20B, 16C, 12C

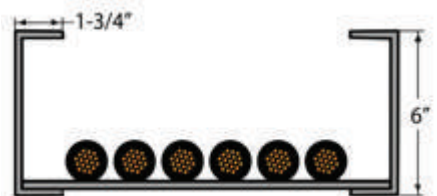
Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	208	0.92	153	1.26	117	1.64	93	2.08	75	2.56
9	208	0.92	153	1.26	117	1.64	93	2.08	75	2.56
12	208	0.92	153	1.26	117	1.64	93	2.08	75	2.56
18	208	0.92	153	1.26	117	1.64	93	2.08	75	2.56
24	208	0.92	153	1.26	117	1.64	93	2.08	75	2.56
**30	208	0.92	153	1.26	117	1.64	93	2.08	75	2.56
**36	208	0.92	153	1.26	117	1.64	93	2.08	75	2.56

Blue = Corrugated Bottom

Red = -06C Corrugated Bottom

A S X1

Use ASX fittings

NEMA 20C, 16C, 12C

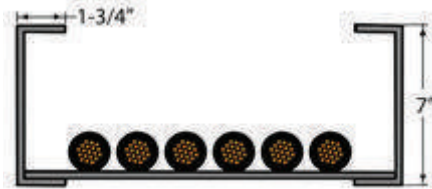
Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	278	1.13	204	1.53	156	2.00	123	2.53	100	3.13
9	278	1.13	204	1.53	156	2.00	123	2.53	100	3.13
12	278	1.13	204	1.53	156	2.00	123	2.53	100	3.13
18	278	1.13	204	1.53	156	2.00	123	2.53	100	3.13
24	278	1.13	204	1.53	156	2.00	123	2.53	100	3.13
**30	278	1.13	204	1.53	156	2.00	123	2.53	100	3.13
**36	278	1.13	204	1.53	156	2.00	123	2.53	100	3.13

Blue = Corrugated Bottom

Red = -06C Corrugated Bottom

A S X7

Use ASX7 fittings

NEMA 20B+, 16C+, 12C


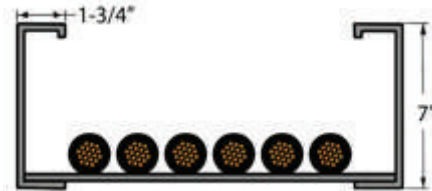
Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	247	0.69	182	0.94	139	1.22	110	1.55	89	1.93
9	247	0.69	182	0.94	139	1.22	110	1.55	89	1.93
12	247	0.69	182	0.94	139	1.22	110	1.55	89	1.93
18	247	0.69	182	0.94	139	1.22	110	1.55	89	1.93
24	247	0.69	182	0.94	139	1.22	110	1.55	89	1.93
**30	247	0.69	182	0.94	139	1.22	110	1.55	89	1.93
**36	247	0.69	182	0.94	139	1.22	110	1.55	89	1.93

Blue = Corrugated Bottom

Red = -06C Corrugated Bottom

A S X71

Use ASX7 fittings

NEMA 20C 16C+, 12C


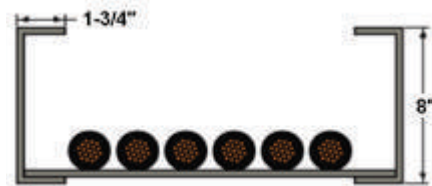
Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	278	0.69	204	0.94	156	1.23	123	1.56	100	1.92
9	278	0.69	204	0.94	156	1.23	123	1.56	100	1.92
12	278	0.69	204	0.94	156	1.23	123	1.56	100	1.92
18	278	0.69	204	0.94	156	1.23	123	1.56	100	1.92
24	278	0.69	204	0.94	156	1.23	123	1.56	100	1.92
**30	278	0.69	204	0.94	156	1.23	123	1.56	100	1.92
**36	278	0.69	204	0.94	156	1.23	123	1.56	100	1.92

Blue = Corrugated Bottom

Red = -06C Corrugated Bottom

A S L1

Use ASL1 fittings

NEMA 20C+, 16C+, 12C


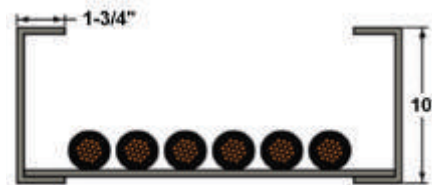
Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	367	0.75	269	1.02	206	1.33	163	1.68	132	2.07
9	367	0.75	269	1.02	206	1.33	163	1.68	132	2.07
12	367	0.75	269	1.02	206	1.33	163	1.68	132	2.07
18	367	0.75	269	1.02	206	1.33	163	1.68	132	2.07
24	367	0.75	269	1.02	206	1.33	163	1.68	132	2.07
**30	367	0.75	269	1.02	206	1.33	163	1.68	132	2.07
**36	367	0.75	269	1.02	206	1.33	163	1.68	132	2.07

Blue = Corrugated Bottom

Red = -06C Corrugated Bottom

A S D1

Use ASD1 fittings

NEMA 20C+ 16C+, 12C


Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	397	0.46	292	0.62	223	0.81	177	1.03	143	1.27
9	397	0.46	292	0.62	223	0.81	177	1.03	143	1.27
12	397	0.46	292	0.62	223	0.81	177	1.03	143	1.27
18	397	0.46	292	0.62	223	0.81	177	1.03	143	1.27
24	397	0.46	292	0.62	223	0.81	177	1.03	143	1.27
**30	397	0.46	292	0.62	223	0.81	177	1.03	143	1.27
**36	397	0.46	292	0.62	223	0.81	177	1.03	143	1.27

Blue = Corrugated Bottom

Red = -06C Corrugated Bottom



Steel Ventilated Trough Numbering System

SJ2-24-144				
S	()	J2-	24-	144
Material	Bottom	Tray Type	Width in Inches	Length in Inches
Materials: S =HDGAF Steel P =Mill Galv. Steel	Bottom Leave this space blank for 6"-24" Wide Ventilated Trough Insert "4" for 4" Rung Spacing 30" & 36" Wide Ventilated Trough	Tray Types: Steel HA, J2, KC, M61, MD4, YD, XB, XB7, XC, XD, MD7, MD74	Widths: 6" 9" 12" 18" 24" 30" 36"	Lengths: HA, J2, KC, M61, MD4, MD7, and MD74 available in 10' (120") & 12' (144") only All others available in 10' (120"), 12' (144"), 20' (240") & 24' (288")

S-TROUGH

Other Technical Data



Depth:

3-3/8, 4, 6 & 7 inches nominal

Fittings:

12, 24, or 36 inch standard radii (See the Fittings Section 10 of this catalog)

Trough Bottoms:

All troughs 6" - 24" wide have ventilated corrugated bottoms. 30" and 36" wide have 4" rung spacing.

Splice Plates:

Straight sections and fittings are supplied with splice plates and hardware. (See Section 11 for details)

Safety Factor:

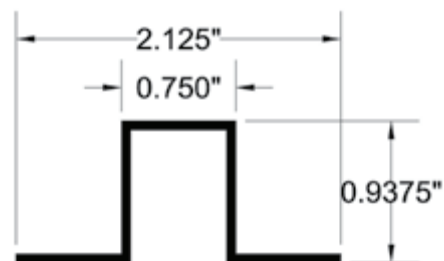
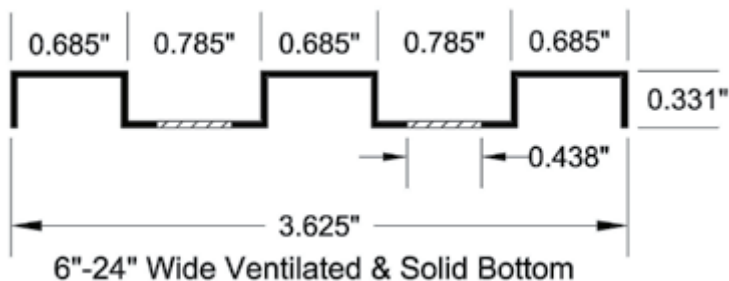
1.5 NEMA Standard

(For other tray sizes or specifications, please consult the factory)



To ensure data available is most current, please visit www.MPHUSKY.com

Bottom Dimensions



Hot Dip Galvanized After Fabrication
S HA

Use SHA fittings

S 4 HA

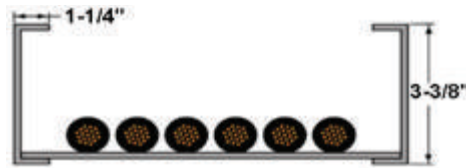
Use S4HA fittings

Mill-Galvanized
P HA

Use PHA fittings

P 4 HA

Use P4HA fittings

NEMA 12A+


Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	585	0.10	260	0.22	146	0.40	94	0.62	65	0.89
9	585	0.10	260	0.22	146	0.40	94	0.62	65	0.89
12	585	0.10	260	0.22	146	0.40	94	0.62	65	0.89
18	490*	0.08	260	0.22	146	0.40	94	0.62	65	0.89
24	367*	0.06	260	0.22	146	0.40	94	0.62	65	0.89
30	585	0.10	260	0.22	146	0.40	94	0.62	65	0.89
36	585	0.10	260	0.22	146	0.40	94	0.62	65	0.89

Blue = Corrugated Bottom

Red = 4" Rung Spacing

Hot Dip Galvanized After Fabrication
S J2

Use SJ2 fittings

S 4 J2

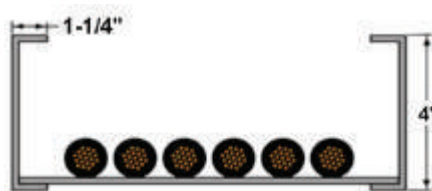
Use S4J2 fittings

Mill-Galvanized
P J2

Use PJ2 fittings

P 4 J2

Use P4J2 fittings

NEMA 12B+


Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	729	0.09	324	0.19	182	0.33	117	0.52	81	0.75
9	729	0.09	324	0.19	182	0.33	117	0.52	81	0.75
12	729	0.09	324	0.19	182	0.33	117	0.52	81	0.75
18	490*	0.07	324	0.19	182	0.33	117	0.52	81	0.75
24	367*	0.05	324	0.19	182	0.33	117	0.52	81	0.75
30	729	0.09	324	0.19	182	0.33	117	0.52	81	0.75
36	729	0.09	324	0.19	182	0.33	117	0.52	81	0.75

Blue = Corrugated Bottom

Red = 4" Rung Spacing

Hot Dip Galvanized After Fabrication
S KC

Use SKC fittings

S 4 KC

Use S4KC fittings

Mill-Galvanized
P KC

Use PKC fittings

P 4 KC

Use P4KC fittings

NEMA 12C+


Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	1098	0.09	488	0.20	275	0.35	176	0.55	122	0.80
9	980*	0.08	488	0.20	275	0.35	176	0.55	122	0.80
12	735*	0.06	488	0.20	275	0.35	176	0.55	122	0.80
18	490*	0.04	488	0.20	275	0.35	176	0.55	122	0.80
24	367*	0.03	367*	0.15	275	0.35	176	0.55	122	0.80
30	1098	0.09	488	0.20	275	0.35	176	0.55	122	0.80
36	1098	0.09	430*	0.18	275	0.35	176	0.55	122	0.80

Blue = Corrugated Bottom

Red = 4" Rung Spacing

Hot Dip Galvanized After Fabrication**S YD**

Use SYD fittings

S 4 YD

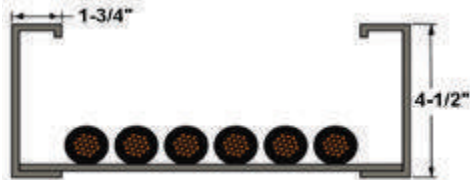
Use S4YD fittings

Mill-Galvanized**P YD**

Use PYD fittings

P 4 YD

Use P4YD fittings

NEMA 20A, 16B+, 12C+

Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	147	0.77	108	1.05	83	1.37	65	1.74	53	2.15
9	147	0.77	108	1.05	83	1.37	65	1.74	53	2.15
12	147	0.77	108	1.05	83	1.37	65	1.74	53	2.15
18	147	0.77	108	1.05	83	1.37	65	1.74	53	2.15
24	147	0.77	108	1.05	83	1.37	65	1.74	53	2.15
30	147	0.77	108	1.05	83	1.37	65	1.74	53	2.15
36	147	0.77	108	1.05	83	1.37	65	1.74	53	2.15

Blue = Corrugated Bottom

Red = 4" Rung Spacing

Hot Dip Galvanized After Fabrication**S M61**

Use SM61 fittings

S 4 M61

Use S4M61 fittings

Mill-Galvanized**P M61**

Use PM61 fittings

P 4 M61

Use P4M61 fittings

NEMA 12B+

Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	855	0.05	380	0.11	214	0.19	137	0.29	95	0.42
9	855	0.05	380	0.11	214	0.19	137	0.29	95	0.42
12	735*	0.04	380	0.11	214	0.19	137	0.29	95	0.42
18	490*	0.03	380	0.11	214	0.19	137	0.29	95	0.42
24	367*	0.02	367*	0.10	214	0.19	137	0.29	95	0.42
30	855	0.05	380	0.11	214	0.19	137	0.29	95	0.42
36	855	0.05	380	0.11	214	0.19	137	0.29	95	0.42

Blue = Corrugated Bottom

Red = 4" Rung Spacing

Hot Dip Galvanized After Fabrication**S MD4**

Use SMD4 fittings

S 4 MD4

Use S4MD4 fittings

Mill-Galvanized**P MD4**

Use PMD4 fittings

P 4 MD4

Use P4MD4 fittings

NEMA 12C+

Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	1170	0.05	520	0.11	293	0.19	187	0.30	130	0.44
9	980*	0.04	520	0.11	293	0.19	187	0.30	130	0.44
12	735*	0.03	520	0.11	293	0.19	187	0.30	130	0.44
18	490*	0.02	490*	0.10	293	0.19	187	0.30	130	0.44
24	367*	0.02	367*	0.08	293	0.19	187	0.30	130	0.44
30	1170	0.05	520	0.11	293	0.19	187	0.30	130	0.44
36	1170	0.05	520	0.11	293	0.19	187	0.30	130	0.44

Blue = Corrugated Bottom

Red = 4" Rung Spacing

Hot Dip Galvanized After Fabrication
S XB

Use SXB fittings

S 4 XB

Use S4XB fittings

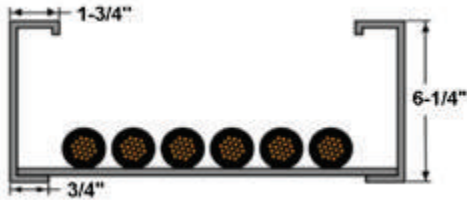
Mill-Galvanized

P XB

Use PXB fittings

P 4 XB

Use P4XB fittings

NEMA 20B, 16C+


Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	208	0.64	153	0.86	117	1.40	93	1.42	75	1.76
9	208	0.64	153	0.86	117	1.40	93	1.42	75	1.76
12	208	0.64	153	0.86	117	1.40	93	1.42	75	1.76
18	208	0.64	153	0.86	117	1.40	93	1.42	75	1.76
24	208	0.64	153	0.86	117	1.40	93	1.42	75	1.76
30	208	0.64	153	0.86	117	1.40	93	1.42	75	1.76
36	208	0.64	153	0.86	117	1.40	93	1.42	75	1.76

Blue = Corrugated Bottom

Red = 4" Rung Spacing

Hot Dip Galvanized After Fabrication
S XC

Use SXC fittings

S 4 XC

Use S4XC fittings

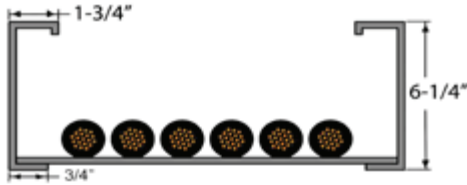
Mill-Galvanized

P XC

Use PXC fittings

P 4 XC

Use P4XC fittings

NEMA 20C+, 16C+


Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	328	0.80	241	1.09	184	1.43	146	1.81	118	2.24
9	328	0.80	241	1.09	184	1.43	146	1.81	118	2.24
12	328	0.80	241	1.09	184	1.43	146	1.81	118	2.24
18	328	0.80	241	1.09	184	1.43	146	1.81	118	2.24
24	328	0.80	241	1.09	184	1.43	146	1.81	118	2.24
30	328	0.80	241	1.09	184	1.43	146	1.81	118	2.24
36	328	0.80	241	1.09	184	1.43	146	1.81	118	2.24

Blue = Corrugated Bottom

Red = 4" Rung Spacing

Hot Dip Galvanized After Fabrication
S XD

Use SXD fittings

S 4 XD

Use S4XD fittings

Mill-Galvanized

P XD

Use PXD fittings

P 4 XD

Use P4XD fittings

NEMA 24B, 20C+


Span (ft.)	12		16		20		22		24	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	376	0.74	212	1.30	135	2.05	119	2.32	94	2.94
9	376	0.74	212	1.30	135	2.05	119	2.32	94	2.94
12	376	0.74	212	1.30	135	2.05	119	2.32	94	2.94
18	376	0.74	212	1.30	135	2.05	119	2.32	94	2.94
24	367*	0.72	212	1.30	135	2.05	119	2.32	94	2.94
30	376	0.74	212	1.30	135	2.05	119	2.32	94	2.94
36	376	0.74	212	1.30	135	2.05	119	2.32	94	2.94

Blue = Corrugated Bottom

Red = 4" Rung Spacing

**Hot Dip Galvanized After Fabrication****S MD7**

Use SMD7 fittings

S 4 MD7

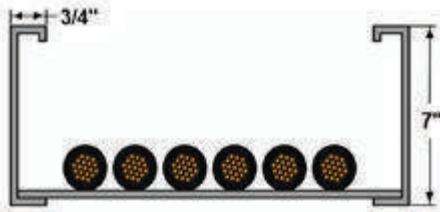
Use S4MD7 fittings

Mill-Galvanized**P MD7**

Use PMD7 fittings

P 4 MD7

Use P4MD7 fittings

NEMA 12C

Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	900	0.03	400	0.07	225	0.12	144	0.19	100	0.28
9	900	0.03	400	0.07	225	0.12	144	0.19	100	0.28
12	735*	0.03	400	0.07	225	0.12	144	0.19	100	0.28
18	490*	0.02	400	0.07	225	0.12	144	0.19	100	0.28
24	367*	0.01	367*	0.06	225	0.12	144	0.19	100	0.28
30	900	0.03	400	0.07	225	0.12	144	0.19	100	0.28
36	900	0.03	400	0.07	225	0.12	144	0.19	100	0.28

Blue = Corrugated Bottom

Red = 4" Rung Spacing

5-TROUGH

Hot Dip Galvanized After Fabrication**S MD74**

Use SMD74 fittings

S 4 MD74

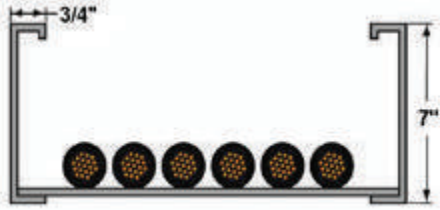
Use S4MD74 fittings

Mill-Galvanized**P MD74**

Use PMD74 fittings

P 4 MD74

Use P4MD74 fittings

NEMA 12C+

Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	1469*	0.07	840	0.12	473	0.21	302	0.33	210	0.47
9	980*	0.05	840	0.12	473	0.21	302	0.33	210	0.47
12	735*	0.04	735*	0.11	473	0.21	302	0.33	210	0.47
18	490*	0.02	490*	0.07	473	0.21	302	0.33	210	0.47
24	367*	0.02	367*	0.05	367*	0.16	302	0.33	210	0.47
30	1813*	0.09	840	0.12	473	0.21	302	0.33	210	0.47
36	1511*	0.07	840	0.12	473	0.21	302	0.33	210	0.47

Blue = Corrugated Bottom

Red = 4" Rung Spacing

Hot Dip Galvanized After Fabrication**S XB7**

Use SXB7 fittings

S 4 XB7

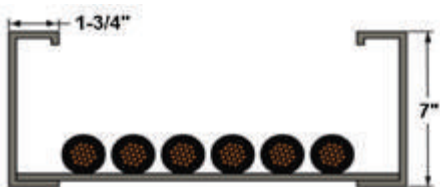
Use S4XB7 fittings

Mill-Galvanized**P XB7**

Use PXB7 fittings

P 4 XB7

Use P4XB7 fittings

NEMA 24B+, 20C+

Span (ft.)	12		16		20		22		24	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	380	0.67	214	1.19	137	1.86	103	2.05	86	2.44
9	380	0.67	214	1.19	137	1.86	103	2.05	86	2.44
12	380	0.67	214	1.19	137	1.86	103	2.05	86	2.44
18	380	0.67	214	1.19	137	1.86	103	2.05	86	2.44
24	367*	0.65	214	1.19	137	1.86	103	2.05	86	2.44
30	380	0.67	214	1.19	137	1.86	103	2.05	86	2.44
36	380	0.67	214	1.19	137	1.86	103	2.05	86	2.44

Blue = Corrugated Bottom

Red = 4" Rung Spacing



Steel Solid Bottom Trough Numbering System

SSJ2-24-144				
S	S	J2-	24-	144
Material	Bottom	Tray Type	Width in Inches	Length in Inches
Materials: S =HDGAF Steel P =Mill-Galv. Steel	Bottom S = Solid Bottom	Tray Types: Steel HA, J2, KC, M61, MD4, YD, XB, XB7, XC, XD, MD7, MD74	Widths: 6" 9" 12" 18" 24" 30" 36"	Lengths: HA, J2, KC, M61, MD4, and MD74 available in 10' (120") & 12' (144") only All others available in 10' (120"), 12' (144"), 20' (240") & 24' (288")

S-TROUGH

Other Technical Data


Depth:

3-3/8, 4, 6 and 7 inches nominal

Fittings:

12, 24, or 36 inch standard radii (See the Fittings Section 10 of this catalog)

Trough Bottoms:

All troughs 6" - 24" wide have solid corrugated bottoms. 30" and 36" wide have (-06C) solid bottom.

Splice Plates:

Straight sections and fittings are supplied with splice plates and hardware. (See Section 11 for details)

Safety Factor:

1.5 NEMA Standard

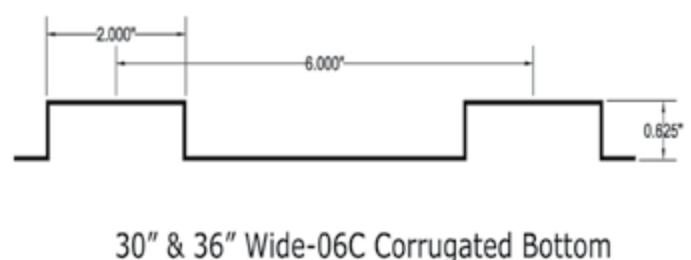
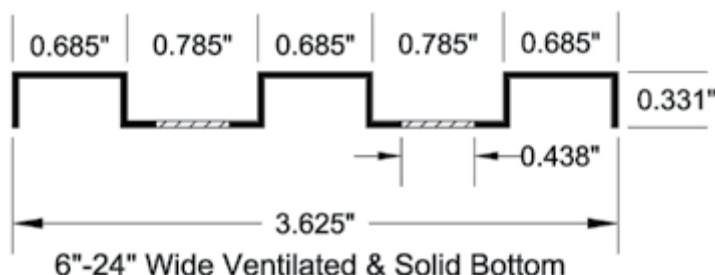


(For other tray sizes or specifications, please consult the factory)

Please see Section 7 (Husky Way) for our other solid bottom tray designs.

To ensure data available is most current, please visit www.MPHUSKY.com

Bottom Dimensions



Hot Dip Galvanized After Fabrication
S S HA

Use SSHA fittings

Mill-Galvanized

P S HA

Use PSHA fittings

NEMA 12A


Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	585	0.10	260	0.22	146	0.40	94	0.62	65	0.89
9	585	0.10	260	0.22	146	0.40	94	0.62	65	0.89
12	585	0.10	260	0.22	146	0.40	94	0.62	65	0.89
18	585	0.10	260	0.22	146	0.40	94	0.62	65	0.89
24	547*	0.09	260	0.22	146	0.40	94	0.62	65	0.89
30	585	0.10	260	0.22	146	0.40	94	0.62	65	0.89
36	585	0.10	260	0.22	146	0.40	94	0.62	65	0.89

Blue = Corrugated Bottom

Red = (-06C) Corrugated Bottom

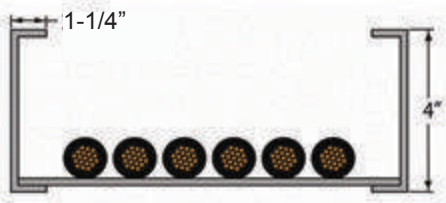
Hot Dip Galvanized After Fabrication
S S J2

Use SSJ2 fittings

Mill-Galvanized

P S J2

Use PSJ2 fittings

NEMA 12B+


Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	729	0.09	324	0.19	182	0.33	117	0.52	81	0.75
9	729	0.09	324	0.19	182	0.33	117	0.52	81	0.75
12	729	0.09	324	0.19	182	0.33	117	0.52	81	0.75
18	729	0.09	324	0.19	182	0.33	117	0.52	81	0.75
24	547*	0.07	324	0.19	182	0.33	117	0.52	81	0.75
30	729	0.09	324	0.19	182	0.33	117	0.52	81	0.75
36	729	0.09	324	0.19	182	0.33	117	0.52	81	0.75

Blue = Corrugated Bottom

Red = (-06C) Corrugated Bottom

Hot Dip Galvanized After Fabrication
S S KC

Use SSKC fittings

Mill-Galvanized

P S KC

Use PSKC fittings

NEMA 12C+


Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	1098	0.09	488	0.20	275	0.35	176	0.55	122	0.80
9	1098	0.09	488	0.20	275	0.35	176	0.55	122	0.80
12	1094*	0.09	488	0.20	275	0.35	176	0.55	122	0.80
18	729*	0.06	488	0.20	275	0.35	176	0.55	122	0.80
24	547*	0.05	488	0.20	275	0.35	176	0.55	122	0.80
30	1098	0.09	488	0.20	275	0.35	176	0.55	122	0.80
36	1044*	0.09	488	0.20	275	0.35	176	0.55	122	0.80

Blue = Corrugated Bottom

Red = (-06C) Corrugated Bottom



Hot Dip Galvanized After Fabrication

SS YD

Use SSYD fittings

Mill-Galvanized

PS YD

Use PSYD fittings

NEMA 20A, 16B, 12C



Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	147	0.77	108	1.05	83	1.37	65	1.74	53	2.15
9	147	0.77	108	1.05	83	1.37	65	1.74	53	2.15
12	147	0.77	108	1.05	83	1.37	65	1.74	53	2.15
18	147	0.77	108	1.05	83	1.37	65	1.74	53	2.15
24	147	0.77	108	1.05	83	1.37	65	1.74	53	2.15
30	147	0.77	108	1.05	83	1.37	65	1.74	53	2.15
36	147	0.77	108	1.05	83	1.37	65	1.74	53	2.15

Blue = Corrugated Bottom

Red = (-06C) Corrugated Bottom

5-TROUGH

Hot Dip Galvanized After Fabrication

SS M61

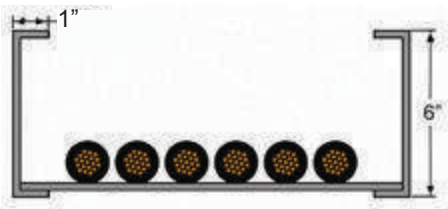
Use SSM61 fittings

Mill-Galvanized

PS M61

Use PSM61 fittings

NEMA 12B+



Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	855	0.05	380	0.11	214	0.19	137	0.29	95	0.42
9	855	0.05	380	0.11	214	0.19	137	0.29	95	0.42
12	855	0.05	380	0.11	214	0.19	137	0.29	95	0.42
18	729*	0.04	380	0.11	214	0.19	137	0.29	95	0.42
24	547*	0.03	380	0.11	214	0.19	137	0.29	95	0.42
30	855	0.05	380	0.11	214	0.19	137	0.29	95	0.42
36	855	0.05	380	0.11	214	0.19	137	0.29	95	0.42

Blue = Corrugated Bottom

Red = (-06C) Corrugated Bottom

Hot Dip Galvanized After Fabrication

SS MD4

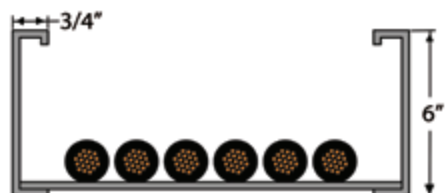
Use SSMD4 fittings

Mill-Galvanized

PS MD4

Use PSMD4 fittings

NEMA 12C+



Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	1170	0.05	520	0.11	293	0.19	187	0.30	130	0.44
9	1170	0.05	520	0.11	293	0.19	187	0.30	130	0.44
12	1094*	0.05	520	0.11	293	0.19	187	0.30	130	0.44
18	729*	0.03	520	0.11	293	0.19	187	0.30	130	0.44
24	547*	0.02	520	0.11	293	0.19	187	0.30	130	0.44
30	1170	0.05	520	0.11	293	0.19	187	0.30	130	0.44
36	1044*	0.05	520	0.11	293	0.19	187	0.30	130	0.44

Blue = Corrugated Bottom

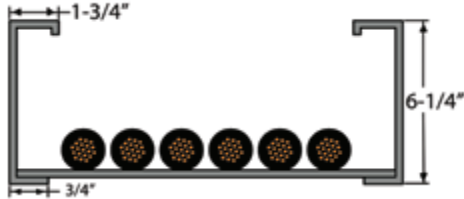
Red = (-06C) Corrugated Bottom

Hot Dip Galvanized After Fabrication
S S XB

Use SSXB fittings

Mill-Galvanized
P S XB

Use PSXB fittings

NEMA 20B, 16C+


Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	208	0.64	153	0.86	117	1.40	93	1.42	75	1.76
9	208	0.64	153	0.86	117	1.40	93	1.42	75	1.76
12	208	0.64	153	0.86	117	1.40	93	1.42	75	1.76
18	208	0.64	153	0.86	117	1.40	93	1.42	75	1.76
24	208	0.64	153	0.86	117	1.40	93	1.42	75	1.76
30	208	0.64	153	0.86	117	1.40	93	1.42	75	1.76
36	208	0.64	153	0.86	117	1.40	93	1.42	75	1.76

Blue = Corrugated Bottom

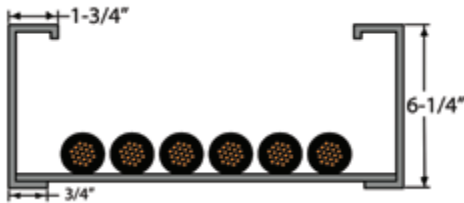
Red = (-06C) Corrugated Bottom

Hot Dip Galvanized After Fabrication
S S XC

Use SSXC fittings

Mill-Galvanized
P S XC

Use PSXC fittings

NEMA 20C+, 16C+


Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	328	0.80	241	1.09	184	1.43	146	1.81	118	2.24
9	328	0.80	241	1.09	184	1.43	146	1.81	118	2.24
12	328	0.80	241	1.09	184	1.43	146	1.81	118	2.24
18	328	0.80	241	1.09	184	1.43	146	1.81	118	2.24
24	328	0.80	241	1.09	184	1.43	146	1.81	118	2.24
30	328	0.80	241	1.09	184	1.43	146	1.81	118	2.24
36	328	0.80	241	1.09	184	1.43	146	1.81	118	2.24

Blue = Corrugated Bottom

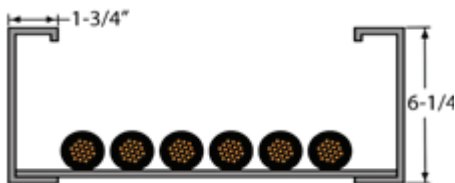
Red = (-06C) Corrugated Bottom

Hot Dip Galvanized After Fabrication
S S XD

Use SSXD fittings

Mill-Galvanized
P S XD

Use PSXD fittings

NEMA 24B+, 20C+


Span (ft.)	12		16		20		22		24	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	376	0.74	212	1.30	135	2.05	119	2.32	94	2.94
9	376	0.74	212	1.30	135	2.05	119	2.32	94	2.94
12	376	0.74	212	1.30	135	2.05	119	2.32	94	2.94
18	376	0.74	212	1.30	135	2.05	119	2.32	94	2.94
24	376	0.74	212	1.30	135	2.05	119	2.32	94	2.94
30	376	0.74	212	1.30	135	2.05	119	2.32	94	2.94
36	376	0.74	212	1.30	135	2.05	119	2.32	94	2.94

Blue = Corrugated Bottom

Red = (-06C) Corrugated Bottom



Hot Dip Galvanized After Fabrication

S S MD7

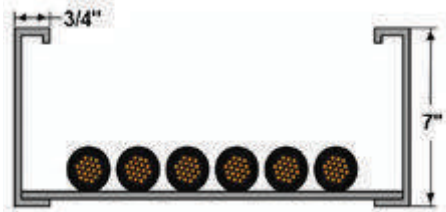
Use SSMD7 fittings

Mill-Galvanized

P S MD7

Use PSMD7 fittings

NEMA 12C



Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	900	0.03	400	0.07	225	0.12	144	0.19	100	0.28
9	900	0.03	400	0.07	225	0.12	144	0.19	100	0.28
12	900	0.03	400	0.07	225	0.12	144	0.19	100	0.28
18	729*	0.02	400	0.07	225	0.12	144	0.19	100	0.28
24	547*	0.02	400	0.07	225	0.12	144	0.19	100	0.28
30	900	0.03	400	0.07	225	0.12	144	0.19	100	0.28
36	900	0.03	400	0.07	225	0.12	144	0.19	100	0.28

Blue = Corrugated Bottom

Red = (-06C) Corrugated Bottom

5-TROUGH

Hot Dip Galvanized After Fabrication

S S MD74

Use SSMD74 fittings

Mill-Galvanized

P S MD74

Use PSMD74 fittings

NEMA 12C+



Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	1890	0.02	840	0.12	473	0.21	302	0.33	210	0.47
9	1459*	0.02	840	0.12	473	0.21	302	0.33	210	0.47
12	1094*	0.01	840	0.12	473	0.21	302	0.33	210	0.47
18	729*	0.01	729*	0.10	473	0.21	302	0.33	210	0.47
24	547*	0.01	547*	0.08	473	0.21	302	0.33	210	0.47
30	1252*	0.01	840	0.12	473	0.21	302	0.33	210	0.47
36	1044*	0.01	840	0.12	473	0.21	302	0.33	210	0.47

Blue = Corrugated Bottom

Red = (-06C) Corrugated Bottom

Hot Dip Galvanized After Fabrication

S S XB7

Use SSXB7 fittings

Mill-Galvanized

P S XB7

Use PSXB7 fittings

NEMA 24B+, 20C+



Span (ft.)	12		16		20		22		24	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	380	0.67	214	1.19	137	1.86	103	2.05	86	2.44
9	380	0.67	214	1.19	137	1.86	103	2.05	86	2.44
12	380	0.67	214	1.19	137	1.86	103	2.05	86	2.44
18	380	0.67	214	1.19	137	1.86	103	2.05	86	2.44
24	380	0.67	214	1.19	137	1.86	103	2.05	86	2.44
30	380	0.67	214	1.19	137	1.86	103	2.05	86	2.44
36	380	0.67	214	1.19	137	1.86	103	2.05	86	2.44

Blue = Corrugated Bottom

Red = (-06C) Corrugated Bottom





MP HUSKY[™]
CABLE TRAY & CABLE BUS

Husky I-Beam Ventilated and Solid Bottom Trough

Aluminum

Selection Tables	Pg. 77
Alum. Vent. Numbering System	Pg. 78
Alum. Vent. Loading Tables	Pgs. 79-82
Alum. Solid Numbering System	Pg. 83
Alum. Solid Loading Tables	Pgs. 84-87



Selection Tables (For actual loading capacity see Load Tables in this section)

Aluminum I-Beam Tray						
NEMA Class	NEMA Load(lbs.)/Span (ft.)	Tray Height	Load Depth	Top Flange Width	Prefix Vent Bottom	Prefix Solid Bottom
12A	50/12	4-1/2" 6"	3-1/2" 5"	1-1/4" 2"	AIJA AIMB	ASIJA ASIMB
12B	75/12	4-1/2" 6"	3-1/2" 5"	1-1/4" 2"	AIJB AIMB	ASIBJ ASIMB
12C	100/12	4-1/2" 6"	3-1/2" 5"	1-1/4" 2"	AIJC AIMC	ASIJC ASIMC
12C+	100+/12	6"	5"	2"	AIMD	ASIMD
16C	100/16	4-1/2" 6"	3-1/2" 5"	2" 2"	AIYA AIXA	ASIYA ASIXA
20A	50/20	4-1/2" 6"	3-1/2" 5"	2" 2"	AIYA AIXA	ASIYA ASIXA
20B	75/20	4-1/2" 6"	3-1/2" 5"	2" 2"	AIYB AIXB	ASIYB ASIXB
20B+	75+/20	7"	6"	2"	AIXD7	ASIXD7
20C	100/20	4-1/2" 6" 7"	3-1/2" 5" 6"	2" 2" 2"	AIYC AIXC AIXD7	ASIYC ASIXC ASIXD7
20C+	100+/20	6" 6" 7"	5" 5" 6"	2" 3-1/2" 2"	AIXD AI6 AIXD7	ASIXD ASI6 ASIXD7
24B	75/24	7"	6"	2"	AIXD7	ASIXD7
24C+	100+/24	6"	5"	3-1/2"	AI6	ASI6
30C+	100+/30	8"	7"	3"	AI8	ASI8
20B+	75+/20	4-1/2" 6" 7"	3-1/2" 5" 6"	2" 2" 2"	AIYC AIXC AIXD7	ASIYC ASIXC ASIXD7

With a corrugated bottom that is 3 times stronger and 21 times stiffer than 14 GA. flat sheet bottoms.

Husky I-Beam Trough is the tray of choice for instrumentation, data transmission, and control cables.





Numbering System

Aluminum Ventilated Trough Numbering System

A4I8-36-288				
A	()	I8-	36-	288
Material	Bottom	Tray Type	Width in Inches	Length in Inches
Materials: A=Aluminum	Bottom 4 (4" Rung Spacing) Leave blank for 6-24" wide ventilated trough Insert "4" for 4" rung spacing	Tray Types: IJA, IJB, IJC IMB, IMC, IMD IYC, IYB IXA, IXB, IXC IXD, IXD7 I6 I8	Widths: 6 9 12 18 24 30 36	Lengths: IJA, IJB, IJC, IMB, IMC and IMD available in 10' (120") & 12' (144") only All others available in 10' (120"), 12' (144"), 20' (240") & 24' (288") I8 only available 30' (360")

6-I BEAM
TROUGH

Other Technical Data



Depth:

4-1/2, 6, 7 & 8

Fittings:

12, 24 & 36 inch radius (See the Fittings Section 10 of this catalog)

Trough Bottoms:

Corrugation on 6-24 inch wide, 4 inch rung spacing on 30 & 36 inch wide

Splice Plates:

Bolted Splice Plates (See Section 11 for details)

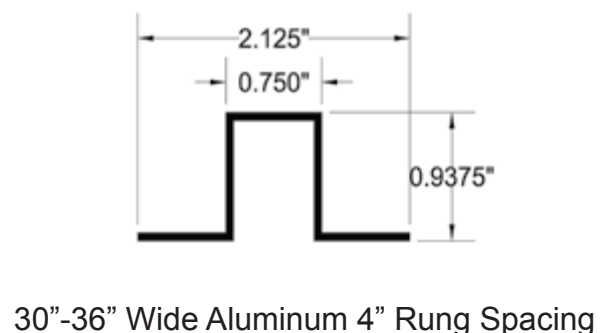
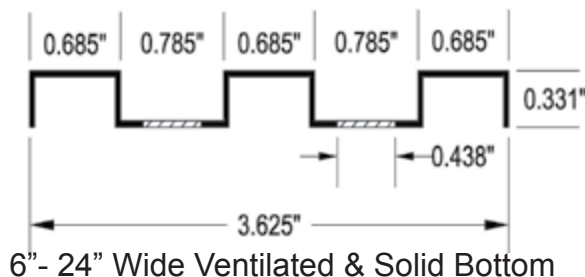
Safety Factor: 1.5

(For other tray sizes or specifications, please consult the factory)

To ensure data available is most current, please visit www.MPHUSKY.com



Bottom Dimensions

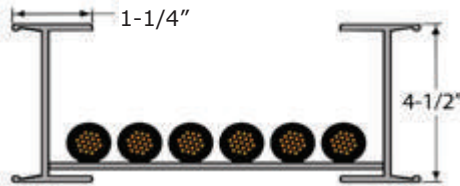


A IJA

 6-24 in only
Use AIJA fittings

A 4 IJA

 30 & 36 in only
Use A4IJA fittings

NEMA 12A


Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	513	0.09	228	0.19	128	0.34	82	0.53	57	0.77
9	513	0.09	228	0.19	128	0.34	82	0.53	57	0.77
12	457*	0.08	228	0.19	128	0.34	82	0.53	57	0.77
18	305*	0.05	228	0.19	128	0.34	82	0.53	57	0.77
24	229*	0.04	228	0.19	128	0.34	82	0.53	57	0.77
30	513	0.09	228	0.19	128	0.34	82	0.53	57	0.77
36	513	0.09	228	0.19	128	0.34	82	0.53	57	0.77

Blue = Corrugated Bottom

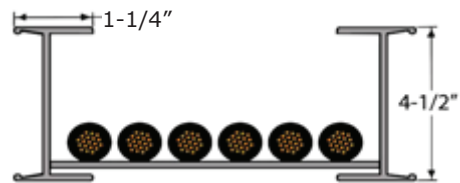
Red = 4" Rung Spacing

A IJB

 6-24 in only
Use AIJB fittings

A 4 IJB

 30 & 36 in only
Use A4IJB fittings

NEMA 12B+


Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	837	0.14	372	0.32	209	0.56	134	0.87	93	1.26
9	610*	0.10	372	0.32	209	0.56	134	0.87	93	1.26
12	457*	0.08	372	0.32	209	0.56	134	0.87	93	1.26
18	305*	0.05	305*	0.26	209	0.56	134	0.87	93	1.26
24	229*	0.04	229*	0.20	209	0.56	134	0.87	93	1.26
30	837	0.14	372	0.32	209	0.56	134	0.87	93	1.26
36	837	0.14	372	0.32	209	0.56	134	0.87	93	1.26

Blue = Corrugated Bottom

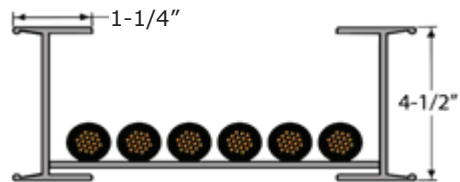
Red = 4" Rung Spacing

A IJC

 6-24 in only
Use AIJC fittings

A 4 IJC

 30 & 36 in only
Use A4IJC fittings

NEMA 12C


Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	900	0.13	400	0.29	225	0.52	144	0.82	100	1.18
9	610*	0.09	400	0.29	225	0.52	144	0.82	100	1.18
12	457*	0.08	400	0.29	225	0.52	144	0.82	100	1.18
18	305*	0.05	305*	0.22	225	0.52	144	0.82	100	1.18
24	229*	0.03	229*	0.17	225	0.52	144	0.82	100	1.18
30	900	0.13	400	0.29	225	0.52	144	0.82	100	1.18
36	900	0.13	400	0.29	225	0.52	144	0.82	100	1.18

Blue = Corrugated Bottom

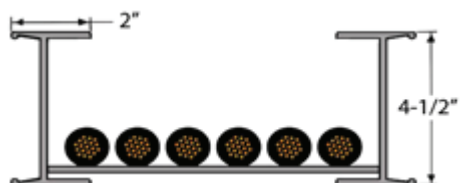
Red = 4" Rung Spacing

A IYA

 6-24 in only
Use AIYA fittings

A 4 IYA

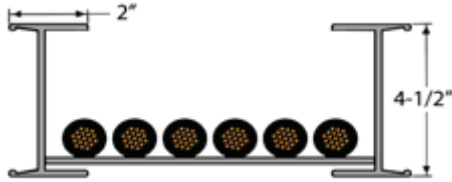
 30 & 36 in only
Use A4IYA fittings

NEMA 20A+


Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	194	1.53	143	2.09	109	2.72	86	3.45	70	4.26
9	194	1.53	143	2.09	109	2.72	86	3.45	70	4.26
12	194	1.53	143	2.09	109	2.72	86	3.45	70	4.26
18	194	1.53	143	2.09	109	2.72	86	3.45	70	4.26
24	194	1.53	143	2.09	109	2.72	86	3.45	70	4.26
30	194	1.53	143	2.09	109	2.72	86	3.45	70	4.26
36	194	1.53	143	2.09	109	2.72	86	3.45	70	4.26

Blue = Corrugated Bottom

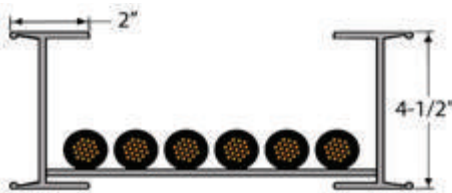
Red = 4" Rung Spacing

**A IYB**6-24 in only
Use AIYB fittings**A 4 IYB**30 & 36 in only
Use A4IYB fittings**NEMA 20B**

Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	208	1.64	153	2.23	117	2.92	93	3.69	75	4.56
9	208	1.64	153	2.23	117	2.92	93	3.69	75	4.56
12	208	1.64	153	2.23	117	2.92	93	3.69	75	4.56
18	208	1.64	153	2.23	117	2.92	93	3.69	75	4.56
24	208	1.64	153	2.23	117	2.92	93	3.69	75	4.56
30	208	1.64	153	2.23	117	2.92	93	3.69	75	4.56
36	208	1.64	153	2.23	117	2.92	93	3.69	75	4.56

Blue = Corrugated Bottom

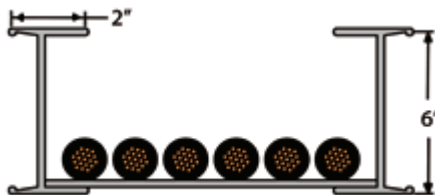
Red = 4" Rung Spacing

A IYC6-24 in only
Use AIYC fittings**A 4 IYC**30 & 36 in only
Use A4IYC fittings**NEMA 20C, 20B+, 16C+**

Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	278	1.99	204	2.70	156	3.53	123	4.47	100	5.52
9	278	1.99	204	2.70	156	3.53	123	4.47	100	5.52
12	278	1.99	204	2.70	156	3.53	123	4.47	100	5.52
18	278	1.99	204	2.70	156	3.53	123	4.47	100	5.52
24	229*	1.64	204	2.70	156	3.53	123	4.47	100	5.52
30	278	1.99	204	2.70	156	3.53	123	4.47	100	5.52
36	278	1.99	204	2.70	156	3.53	123	4.47	100	5.52

Blue = Corrugated Bottom

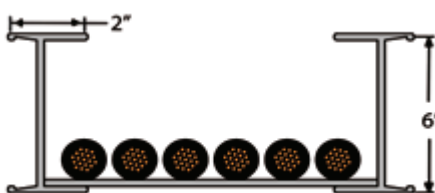
Red = 4" Rung Spacing

A IMB6-24 in only
Use AIMB fittings**A 4 IMB**30 & 36 in only
Use A4IMB fittings**NEMA 12B+**

Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	747	0.05	332	0.12	187	0.21	120	0.33	83	0.47
9	610*	0.04	332	0.12	187	0.21	120	0.33	83	0.47
12	457*	0.03	332	0.12	187	0.21	120	0.33	83	0.47
18	305*	0.02	305*	0.11	187	0.21	120	0.33	83	0.47
24	229*	0.02	229*	0.08	187	0.21	120	0.33	83	0.47
30	747	0.05	332	0.12	187	0.21	120	0.33	83	0.47
36	747	0.05	332	0.12	187	0.21	120	0.33	83	0.47

Blue = Corrugated Bottom

Red = 4" Rung Spacing

A IMC6-24 in only
Use AIMC fittings**A 4 IMC**30 & 36 in only
Use A4IMC fittings**NEMA 12C**

Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	916*	0.07	424	0.15	239	0.27	153	0.42	106	0.60
9	610*	0.05	424	0.15	239	0.27	153	0.42	106	0.60
12	457*	0.04	424	0.15	239	0.27	153	0.42	106	0.60
18	305*	0.02	305*	0.11	239	0.27	153	0.42	106	0.60
24	229*	0.02	229*	0.08	229*	0.26	153	0.42	106	0.60
30	954	0.07	424	0.15	239	0.27	153	0.42	106	0.60
36	940*	0.07	424	0.15	239	0.27	153	0.42	106	0.60

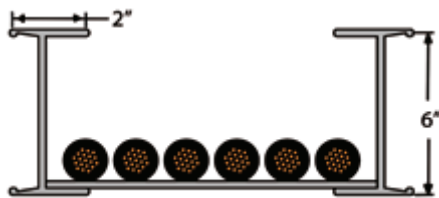
Blue = Corrugated Bottom

Red = 4" Rung Spacing

A IMD

 6-24 in only
Use AIMD fittings

A 4 IMD
NEMA 12C+

 30 & 36 in only
Use A4IMD fittings


Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	916*	0.07	540	0.19	304	0.34	194	0.53	135	0.76
9	610*	0.05	540	0.19	304	0.34	194	0.53	135	0.76
12	457*	0.04	457*	0.16	304	0.34	194	0.53	135	0.76
18	305*	0.02	305*	0.11	304	0.34	194	0.53	135	0.76
24	229*	0.02	229*	0.08	229*	0.26	194	0.53	135	0.76
30	1128*	0.08	540	0.19	304	0.34	194	0.53	135	0.76
36	940*	0.07	540	0.19	304	0.34	194	0.53	135	0.76

Blue = Corrugated Bottom

Red = 4" Rung Spacing

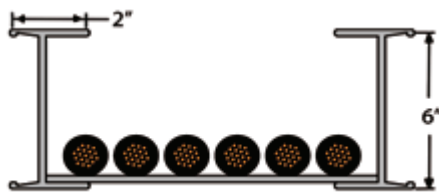
A IXA

 6-24 in only
Use AIXA fittings

A 4 IXA

 30 & 36 in only
Use A4IXA fittings

NEMA 20B, 20A+, 16C+



Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	211	0.96	155	1.31	119	1.72	94	2.17	76	2.68
9	211	0.96	155	1.31	119	1.72	94	2.17	76	2.68
12	211	0.96	155	1.31	119	1.72	94	2.17	76	2.68
18	211	0.96	155	1.31	119	1.72	94	2.17	76	2.68
24	211	0.96	155	1.31	119	1.72	94	2.17	76	2.68
30	211	0.96	155	1.31	119	1.72	94	2.17	76	2.68
36	211	0.96	155	1.31	119	1.72	94	2.17	76	2.68

Blue = Corrugated Bottom

Red = 4" Rung Spacing

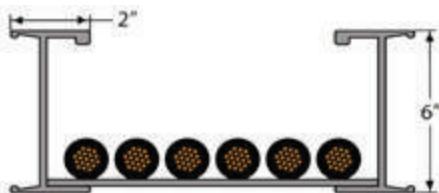
A IXB

 6-24 in only
Use AIXB fittings

A 4 IXB

 30 & 36 in only
Use A4IXB fittings

NEMA 20B+, 16C+



Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	264	1.11	194	1.51	148	1.97	117	2.50	95	3.08
9	264	1.11	194	1.51	148	1.97	117	2.50	95	3.08
12	264	1.11	194	1.51	148	1.97	117	2.50	95	3.08
18	264	1.11	194	1.51	148	1.97	117	2.50	95	3.08
24	264	1.11	194	1.51	148	1.97	117	2.50	95	3.08
30	264	1.11	194	1.51	148	1.97	117	2.50	95	3.08
36	264	1.11	194	1.51	148	1.97	117	2.50	95	3.08

Blue = Corrugated Bottom

Red = 4" Rung Spacing

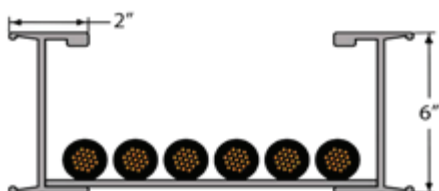
A IXC

 6-24 in only
Use AIXC fittings

A 4 IXC

 30 & 36 in only
Use A4IXC fittings

NEMA 20C, 16C+, 12C+



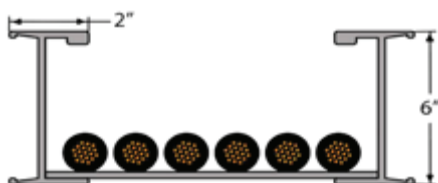
Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	289	1.11	212	1.51	163	1.97	128	2.49	104	3.08
9	289	1.11	212	1.51	163	1.97	128	2.49	104	3.08
12	289	1.11	212	1.51	163	1.97	128	2.49	104	3.08
18	289	1.11	212	1.51	163	1.97	128	2.49	104	3.08
24	229*	0.88	212	1.51	163	1.97	128	2.49	104	3.08
30	289	1.11	212	1.51	163	1.97	128	2.49	104	3.08
36	289	1.11	212	1.51	163	1.97	128	2.49	104	3.08

Blue = Corrugated Bottom

Red = 4" Rung Spacing

**A IxD**6-24 in only
Use AIXD fittings**A 4 IxD**30 & 36 in only
Use A4IXD fittings

NEMA 20C+



Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	314	1.20	231	1.64	177	2.14	140	2.70	113	3.34
9	314	1.20	231	1.64	177	2.14	140	2.70	113	3.34
12	314	1.20	231	1.64	177	2.14	140	2.70	113	3.34
18	305*	1.17	231	1.64	177	2.14	140	2.70	113	3.34
24	229*	0.88	229*	1.63	177	2.14	140	2.70	113	3.34
30	314	1.20	231	1.64	177	2.14	140	2.70	113	3.34
36	314	1.20	231	1.64	177	2.14	140	2.70	113	3.34

Blue = Corrugated Bottom

Red = 4" Rung Spacing

A I66-24 in only
Use AI6 fittings**A 4 I6**30 & 36 in only
Use A4I6 fittings

NEMA 24C+, 20C+



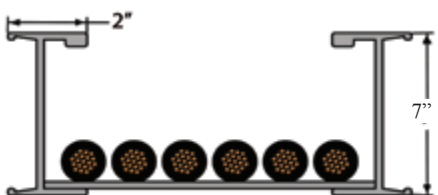
Span (ft.)	12		16		20		22		24	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
9	492	1.27	277	2.25	177	3.52	146	4.26	123	5.07
12	457*	1.18	277	2.25	177	3.52	146	4.26	123	5.07
18	305*	0.79	277	2.25	177	3.52	146	4.26	123	5.07
24	229*	0.59	229*	1.86	177	3.52	146	4.26	123	5.07
30	492	1.27	277	2.25	177	3.52	146	4.26	123	5.07
36	492	1.27	277	2.25	177	3.52	146	4.26	123	5.07

Blue = Corrugated Bottom

Red = 4" Rung Spacing

A IxD76-24 in only
Use AIXD7 fittings**A 4 IxD7**30 & 36 in only
Use A4IXD7 fittings

NEMA 20C



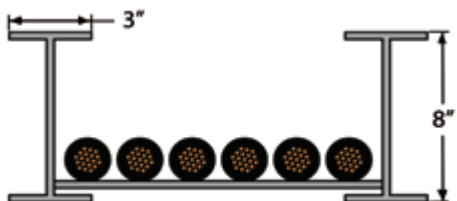
Span (ft.)	12		16		20		22		24	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	356	0.88	200	1.56	128	2.44	106	2.95	89	3.52
9	356	0.88	200	1.56	128	2.44	106	2.95	89	3.52
12	356	0.88	200	1.56	128	2.44	106	2.95	89	3.52
18	305*	0.75	200	1.56	128	2.44	106	2.95	89	3.52
24	229*	0.57	200	1.56	128	2.44	106	2.95	89	3.52
30	356	0.88	200	1.56	128	2.44	106	2.95	89	3.52
36	356	0.88	200	1.56	128	2.44	106	2.95	89	3.52

Blue = Corrugated Bottom

Red = 4" Rung Spacing

A I86-24 in only
Use AI8 fittings**A 4 I8**30 & 36 in only
Use A4I8 fittings

NEMA 30C+, 24C+



Span (ft.)	12		16		20		24		30	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
9	610*	0.55	411	1.17	263	1.82	183	2.62	117	4.10
12	457*	0.41	411	1.17	263	1.82	183	2.62	117	4.10
18	305*	0.28	305*	0.87	263	1.82	183	2.62	117	4.10
24	229*	0.21	229*	0.65	229*	1.59	183	2.62	117	4.10
30	732	0.66	411	1.17	263	1.82	183	2.62	117	4.10
36	732	0.66	411	1.17	263	1.82	183	2.62	117	4.10

Blue = Corrugated Bottom

Red = 4" Rung Spacing



Aluminum Solid Bottom Trough Numbering System

ASIMC-18-144				
A	S	IMC-	18-	144
Material	Bottom	Tray Type	Width in Inches	Length in Inches
Materials: A=Aluminum	Bottom S= Solid Bottom	Tray Types: IJA, IJB, IJC, IMB, IMC, IMD, IYC, IYB IXA, IXB, IXC IXD, IXD7, I6, I8	Widths: 6 9 12 18 24 30 36	Lengths: IJA,IJB,IJC,IMB,IMC and IMD available in 10' (120") & 12' (144") only All others available in 10' (120"), 12' (144"), 20' (240") & 24' (288") I8 only available 30' (360")

6-I BEAM TROUGH

Other Technical Data



Depth:

4-1/2", 6", 7" & 8"

Fittings:

12", 24" & 36" Radius

(See the Fittings Section 10 of this catalog)

Trough Bottoms:

Corrugated Solid Bottom

Splice-Plates

Bolted Splice Connectors (See Section 11 for details)

Safety Factor: 1.5

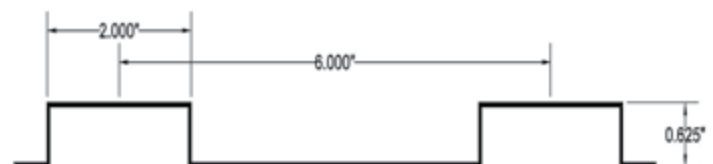
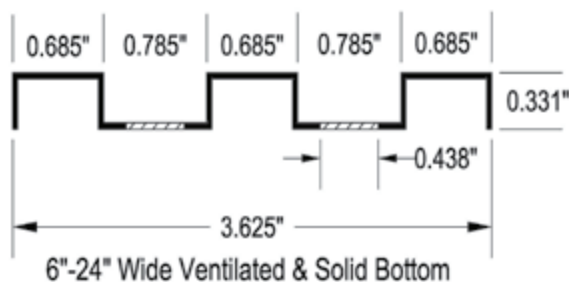


(For other tray sizes or specifications, please consult the factory)

Please see Section 7 (Husky Way) for our other solid bottom tray design.

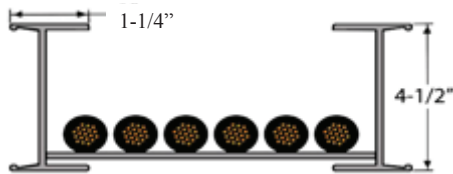
To ensure data available is most current, please visit www.MPHUSKY.com

Bottom Dimensions



**A S IJA**

Use ASIJA fittings

NEMA 12A

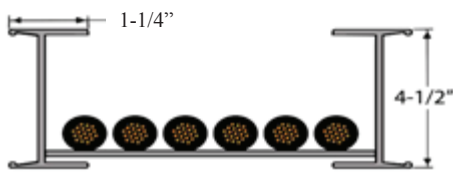
Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	513	0.09	228	0.19	128	0.34	82	0.53	57	0.77
9	513	0.09	228	0.19	128	0.34	82	0.53	57	0.77
12	513	0.09	228	0.19	128	0.34	82	0.53	57	0.77
18	464*	0.08	228	0.19	128	0.34	82	0.53	57	0.77
24	348*	0.06	228	0.19	128	0.34	82	0.53	57	0.77
30	513	0.09	228	0.19	128	0.34	82	0.53	57	0.77
36	513	0.09	228	0.19	128	0.34	82	0.53	57	0.77

Blue = Corrugated Bottom

Red = (-06C) Corrugated Bottom

A S IJB

Use ASIJB fittings

NEMA 12B+

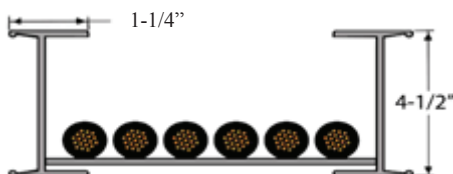
Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	837	0.14	372	0.32	209	0.56	134	0.87	93	1.26
9	837	0.14	372	0.32	209	0.56	134	0.87	93	1.26
12	697*	0.12	372	0.32	209	0.56	134	0.87	93	1.26
18	464*	0.08	372	0.32	209	0.56	134	0.87	93	1.26
24	348*	0.06	348*	0.25	209	0.56	134	0.87	93	1.26
30	835*	0.14	372	0.32	209	0.56	134	0.87	93	1.26
36	696*	0.12	372	0.32	209	0.56	134	0.87	93	1.26

Blue = Corrugated Bottom

Red = (-06C) Corrugated Bottom

A S IJC

Use ASIJC fittings

NEMA 12C

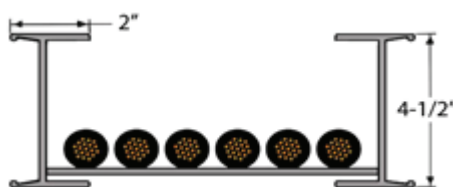
Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	900	0.13	400	0.29	225	0.52	144	0.82	100	1.18
9	900	0.13	400	0.29	225	0.52	144	0.82	100	1.18
12	697*	0.10	400	0.29	225	0.52	144	0.82	100	1.18
18	464*	0.07	400	0.29	225	0.52	144	0.82	100	1.18
24	348*	0.05	348*	0.25	225	0.52	144	0.82	100	1.18
30	835*	0.12	400	0.29	225	0.52	144	0.82	100	1.18
36	696*	0.10	400	0.29	225	0.52	144	0.82	100	1.18

Blue = Corrugated Bottom

Red = (-06C) Corrugated Bottom

A S IYA

Use ASIYA fittings

NEMA 20A+

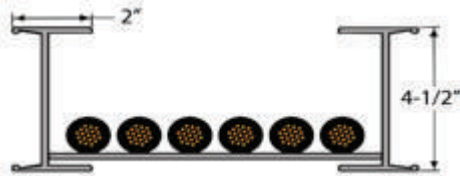
Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	194	1.53	143	2.09	109	2.72	86	3.45	70	4.26
9	194	1.53	143	2.09	109	2.72	86	3.45	70	4.26
12	194	1.53	143	2.09	109	2.72	86	3.45	70	4.26
18	194	1.53	143	2.09	109	2.72	86	3.45	70	4.26
24	194	1.53	143	2.09	109	2.72	86	3.45	70	4.26
30	194	1.53	143	2.09	109	2.72	86	3.45	70	4.26
36	194	1.53	143	2.09	109	2.72	86	3.45	70	4.26

Blue = Corrugated Bottom

Red = (-06C) Corrugated Bottom

A S IYB

Use ASIYB fittings

NEMA 20B


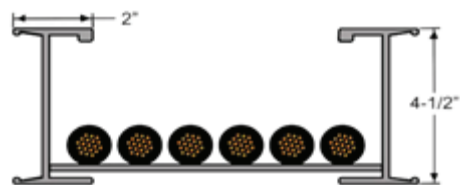
Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	208	1.64	153	2.23	117	2.92	93	3.69	75	4.56
9	208	1.64	153	2.23	117	2.92	93	3.69	75	4.56
12	208	1.64	153	2.23	117	2.92	93	3.69	75	4.56
18	208	1.64	153	2.23	117	2.92	93	3.69	75	4.56
24	208	1.64	153	2.23	117	2.92	93	3.69	75	4.56
30	208	1.64	153	2.23	117	2.92	93	3.69	75	4.56
36	208	1.64	153	2.23	117	2.92	93	3.69	75	4.56

Blue = Corrugated Bottom

Red = (-06C) Corrugated Bottom

A S IYC

Use ASIYC fittings

NEMA 20C, 16C, 12C


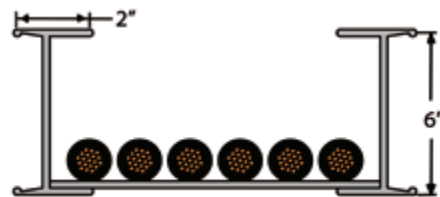
Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
9	278	1.99	204	2.70	156	3.53	123	4.47	100	5.52
12	278	1.99	204	2.70	156	3.53	123	4.47	100	5.52
18	278	1.99	204	2.70	156	3.53	123	4.47	100	5.52
24	278	1.99	204	2.70	156	3.53	123	4.47	100	5.52
30	278	1.99	204	2.70	156	3.53	123	4.47	100	5.52
36	278	1.99	204	2.70	156	3.53	123	4.47	100	5.52

Blue = Corrugated Bottom

Red = (-06C) Corrugated Bottom

A S IMB

Use ASIMB fittings

NEMA 12B+


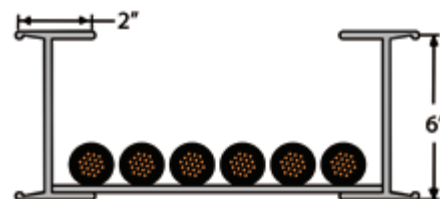
Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	747	0.05	332	0.12	187	0.21	120	0.33	83	0.47
9	747	0.05	332	0.12	187	0.21	120	0.33	83	0.47
12	697*	0.05	332	0.12	187	0.21	120	0.33	83	0.47
18	464*	0.03	332	0.12	187	0.21	120	0.33	83	0.47
24	348*	0.02	332	0.12	187	0.21	120	0.33	83	0.47
30	747	0.05	332	0.12	187	0.21	120	0.33	83	0.47
36	696*	0.05	332	0.12	187	0.21	120	0.33	83	0.47

Blue = Corrugated Bottom

Red = (-06C) Corrugated Bottom

A S IMC

Use ASIMC fittings

NEMA 12C+


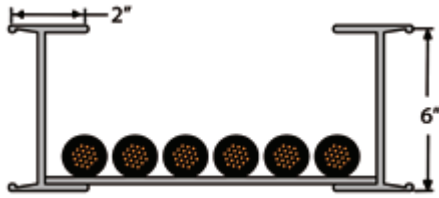
Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	954	0.07	424	0.15	239	0.27	153	0.42	106	0.06
9	929*	0.07	424	0.15	239	0.27	153	0.42	106	0.06
12	697*	0.05	424	0.15	239	0.27	153	0.42	106	0.06
18	464*	0.03	424	0.15	239	0.27	153	0.42	106	0.06
24	348*	0.03	348*	0.12	239	0.27	153	0.42	106	0.06
30	835*	0.06	424	0.15	239	0.27	153	0.42	106	0.06
36	696*	0.05	424	0.15	239	0.27	153	0.42	106	0.06

Blue = Corrugated Bottom

Red = (-06C) Corrugated Bottom

A S IMD

Use ASIMD fittings

NEMA 12C+

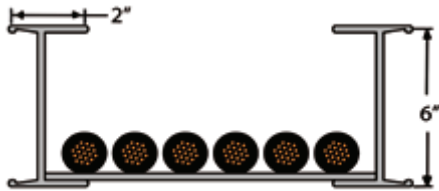
Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	1215	0.08	540	0.19	304	0.34	194	0.53	135	0.76
9	929*	0.06	540	0.19	304	0.34	194	0.53	135	0.76
12	697*	0.05	540	0.19	304	0.34	194	0.53	135	0.76
18	464*	0.03	464*	0.16	304	0.34	194	0.53	135	0.76
24	348*	0.02	348*	0.12	304	0.34	194	0.53	135	0.76
30	835*	0.06	540	0.19	304	0.34	194	0.53	135	0.76
36	696*	0.05	540	0.19	304	0.34	194	0.53	135	0.76

Blue = Corrugated Bottom

Red = (-06C) Corrugated Bottom

A S IXA

Use ASIXA fittings

NEMA 20B, 20A, 16C

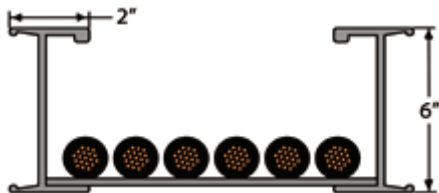
Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	211	0.96	155	1.31	119	1.72	94	2.17	76	2.68
9	211	0.96	155	1.31	119	1.72	94	2.17	76	2.68
12	211	0.96	155	1.31	119	1.72	94	2.17	76	2.68
18	211	0.96	155	1.31	119	1.72	94	2.17	76	2.68
24	211	0.96	155	1.31	119	1.72	94	2.17	76	2.68
30	211	0.96	155	1.31	119	1.72	94	2.17	76	2.68
36	211	0.96	155	1.31	119	1.72	94	2.17	76	2.68

Blue = Corrugated Bottom

Red = (-06C) Corrugated Bottom

A S IXB

Use ASIXB fittings

NEMA 20B+

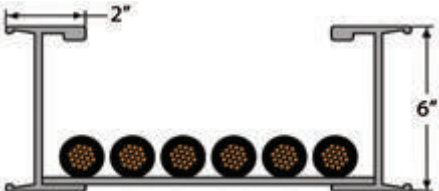
Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	264	1.11	194	1.51	148	1.97	117	2.50	95	3.08
9	264	1.11	194	1.51	148	1.97	117	2.50	95	3.08
12	264	1.11	194	1.51	148	1.97	117	2.50	95	3.08
18	264	1.11	194	1.51	148	1.97	117	2.50	95	3.08
24	264	1.11	194	1.51	148	1.97	117	2.50	95	3.08
30	264	1.11	194	1.51	148	1.97	117	2.50	95	3.08
36	264	1.11	194	1.51	148	1.97	117	2.50	95	3.08

Blue = Corrugated Bottom

Red = (-06C) Corrugated Bottom

A S IXC

Use ASIXC fittings

NEMA 20C

Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	289	1.11	212	1.51	163	1.97	128	2.49	104	3.08
9	289	1.11	212	1.51	163	1.97	128	2.49	104	3.08
12	289	1.11	212	1.51	163	1.97	128	2.49	104	3.08
18	289	1.11	212	1.51	163	1.97	128	2.49	104	3.08
24	289	1.11	212	1.51	163	1.97	128	2.49	104	3.08
30	289	1.11	212	1.51	163	1.97	128	2.49	104	3.08
36	289	1.11	212	1.51	163	1.97	128	2.49	104	3.08

Blue = Corrugated Bottom

Red = (-06C) Corrugated Bottom

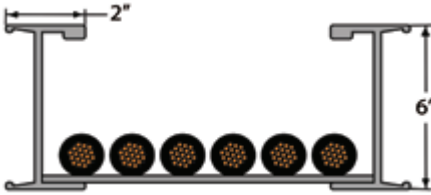
Example:

USE COLOR
CODING TO
ASSEMBLE
PART NUMBER

Part # ASIXC-24-144				
A	S	IXC-	24-	144
Material	Bottom	Tray Type	Width in Inches	Length in Inches

A S IXD

Use ASIXD fittings

NEMA 20C+


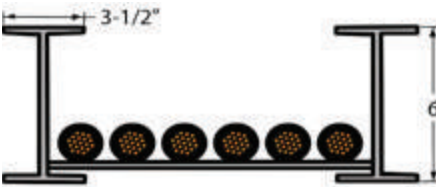
Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	314	1.20	231	1.64	177	2.14	140	2.70	113	3.34
9	314	1.20	231	1.64	177	2.14	140	2.70	113	3.34
12	314	1.20	231	1.64	177	2.14	140	2.70	113	3.34
18	314	1.20	231	1.64	177	2.14	140	2.70	113	3.34
24	314	1.20	231	1.64	177	2.14	140	2.70	113	3.34
30	314	1.20	231	1.64	177	2.14	140	2.70	113	3.34
36	314	1.20	231	1.64	177	2.14	140	2.70	113	3.34

Blue = Corrugated Bottom

Red = (-06C) Corrugated Bottom

A S I6

Use ASI6 fittings

NEMA 24C+, 20C+


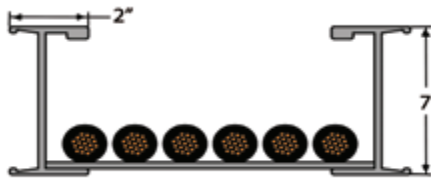
Span (ft.)	12		16		20		22		24	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
9	492	1.27	277	2.25	177	3.52	146	4.26	123	5.07
12	492	1.27	277	2.25	177	3.52	146	4.26	123	5.07
18	464*	1.20	277	2.25	177	3.52	146	4.26	123	5.07
24	348*	0.90	277	2.25	177	3.52	146	4.26	123	5.07
30	492	1.27	277	2.25	177	3.52	146	4.26	123	5.07
36	492	1.27	277	2.25	177	3.52	146	4.26	123	5.07

Blue = Corrugated Bottom

Red = (-06C) Corrugated Bottom

A S IXD7

Use ASIXD7 fittings

NEMA 24B+, 20C+


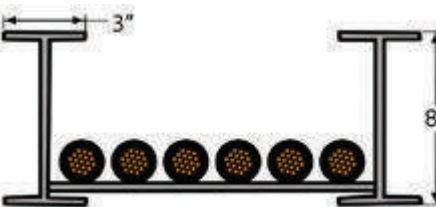
Span (ft.)	12		16		20		22		24	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	356	0.88	200	1.56	128	2.44	106	2.95	89	3.52
9	356	0.88	200	1.56	128	2.44	106	2.95	89	3.52
12	356	0.88	200	1.56	128	2.44	106	2.95	89	3.52
18	356	0.88	200	1.56	128	2.44	106	2.95	89	3.52
24	348*	0.86	200	1.56	128	2.44	106	2.95	89	3.52
30	356	0.88	200	1.56	128	2.44	106	2.95	89	3.52
36	356	0.88	200	1.56	128	2.44	106	2.95	89	3.52

Blue = Corrugated Bottom

Red = (-06C) Corrugated Bottom

A S I8

Use ASI8 fittings

NEMA 30C+, 24C+


Span (ft.)	12		16		20		24		30	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
9	731	0.66	411	1.17	263	1.82	183	2.62	117	4.10
12	697*	0.63	411	1.17	263	1.82	183	2.62	117	4.10
18	464*	0.42	411	1.17	263	1.82	183	2.62	117	4.10
24	348*	0.31	348*	0.99	263	1.82	183	2.62	117	4.10
30	731	0.66	411	1.17	263	1.82	183	2.62	117	4.10
36	731	0.66	411	1.17	263	1.82	183	2.62	117	4.10

Blue = Corrugated Bottom

Red = (-06C) Corrugated Bottom



MP HUSKY[™]
CABLE TRAY & CABLE BUS

Husky Way

*In Aluminum, Mill-Galvanized
Steel, Galvannealed Steel,
304 and 316 Stainless Steel*

Description of Husky Way	Pg. 89
Selection Tables	Pg. 90
Numbering System	Pg. 91
Loading Tables	Pgs. 92-95



Husky Way

Solid Bottom Tray System

For most widths of tray, Husky Way is a one piece formed pan that provides a flat bottom and a fill depth that is almost the same as the outside height of the tray. Husky Way is available in 3-3/8", 4" and 6" deep styles and can be manufactured from Aluminum, Mill-Galvanized, Galvannealed, 304 or 316 Stainless Steel Material.



The solid bottom design provides total support for cables adding protection. Husky Way can be totally enclosed by adding covers (sold separately) to protect cables from damage, aid in shielding or just for a clean appearance. Husky Way is available in widths from 6" wide through 36" wide.

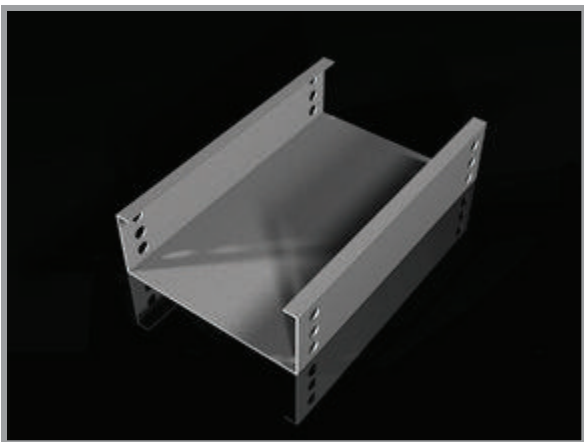
Aluminum—light weight, maintenance free and non-magnetic. Electrical losses are kept to a minimum with this material, but it does not provide shielding for cables from magnetic fields.

Mill-Galvanized Steel—economical, offering good corrosion resistance, and providing shielding from magnetic fields in an enclosed solid bottom system with cover.

Galvannealed Steel—offers the features shown above, plus it is well suited to painting. Galvannealed trays can be painted to match the building color scheme so that it blends in with its surroundings. This system also provides electromagnetic shielding.

Stainless Steel—this material is ideal for corrosive areas, however, because of its non-magnetic feature, it will not provide shielding for sensitive instrument and control or data cables.

We offer a complete line of fittings, covers, accessories, and support items for the Husky Way System to aid in installation and routing.



*An Economical & Easy to Use Cable
Tray from **MP Husky**— the Leader in
Cable Tray Systems*

Selection Tables (For actual loading capacity see Load Tables in this section)

Aluminum					
Load	Support Span	Siderail Height (in.)	Load Depth (in.)	Tray Width (in.)	Prefix
100lbs/ft	10ft	3.38	3.31	6,9,12,18,24,30,36	ASH6
100lbs/ft	10ft	4	3.94	6,9,12,18,24,30,36	ASJ6
100lbs/ft	10ft	6	5.94	6,9,12,18,24,30,36	ASM6

Galvannealed					
Load	Support Span	Siderail Height (in.)	Load Depth (in.)	Tray Width (in.)	Prefix
100lbs/ft	10ft	3.38	3.35	6,9,12,18,24,30,36	NSH0
100lbs/ft	10ft	4	3.96	6,9,12,18,24,30,36	NSJ0
100lbs/ft	10ft	6	5.96	6,9,12,18,24,30,36	NSM0

Mill-Galvanized Steel					
Load	Support Span	Siderail Height (in.)	Load Depth (in.)	Tray Width (in.)	Prefix
100lbs/ft	10ft	3.38	3.35	6,9,12,18,24,30,36	PSH0
100lbs/ft	10ft	4	3.96	6,9,12,18,24,30,36	PSJ0
100lbs/ft	10ft	6	5.96	6,9,12,18,24,30,36	PSM0

304 Stainless Steel					
Load	Support Span	Siderail Height (in.)	Load Depth (in.)	Tray Width (in.)	Prefix
100lbs/ft	10ft	3.38	3.35	6,9,12,18,24,30,36	4SH0
100lbs/ft	10ft	4	3.96	6,9,12,18,24,30,36	4SJ0
100lbs/ft	10ft	6	5.96	6,9,12,18,24,30,36	4SM0

316 Stainless Steel					
Load	Support Span	Siderail Height (in.)	Load Depth (in.)	Tray Width (in.)	Prefix
100lbs/ft	10ft	3.38	3.35	6,9,12,18,24,30,36	6SH0
100lbs/ft	10ft	4	3.96	6,9,12,18,24,30,36	6SJ0
100lbs/ft	10ft	6	5.96	6,9,12,18,24,30,36	6SM0

Numbering System

ASH6-12-120-BF					
A	S	H6-	12-	120	-BF
Material	Bottom Type	Side Wall Height	Width in Inches	Length in Inches	Brake Form
Materials: A =Aluminum N =Galvannealed P =Mill-Galvanized 4 =Stainless Steel 304 6 =Stainless Steel 316	Bottom Type: S =Solid Bottom	Side Wall Height: H0 = 3-3/8" steel H6 =3-3/8" alum J0 =4" steel J6 =4" alum M0 =6" steel M6 =6" alum	Widths: 6" 9" 12" 18" 24" 30" 36"	Lengths: 10' (120")	Tray Type: Brake Form Pan

7-HUSKY WAY

Other Technical Data



Depth:

3-3/8, 4, 6

Fittings:

12, 24 or 36 inch standard radii

(See the Fittings Section 10 of this catalog for more information).

Splice Plates:

Straight sections and fittings are supplied with splice plates and hardware.
(See Section 11 for details)

Safety Factor:

Husky Way is manufactured and tested in accordance with NEMA VE-1.
The tables on the following pages have a 1.5 safety factor.

(For other tray sizes or specifications, please consult the factory)

To ensure data available is most current, please visit www.MPHUSKY.com

NOTE: Cover sold separately



**A S H6**

Use ASH6 fittings



Span (ft.)	5		6		8		10	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	464	0.10	322	0.15	181	0.26	116	0.41
9	464	0.10	322	0.15	181	0.26	116	0.41
12	464	0.10	322	0.15	181	0.26	116	0.41
18	464	0.10	322	0.15	181	0.26	116	0.41
24	464	0.10	322	0.15	181	0.26	116	0.41
30	464	0.10	322	0.15	181	0.26	116	0.41
36	464	0.10	322	0.15	181	0.26	116	0.41

A S J6

Use ASJ6 fittings



Span (ft.)	5		6		8		10	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	464	0.10	322	0.15	181	0.26	116	0.41
9	464	0.10	322	0.15	181	0.26	116	0.41
12	464	0.10	322	0.15	181	0.26	116	0.41
18	464	0.10	322	0.15	181	0.26	116	0.41
24	464	0.10	322	0.15	181	0.26	116	0.41
30	464	0.10	322	0.15	181	0.26	116	0.41
36	464	0.10	322	0.15	181	0.26	116	0.41

A S M6

Use ASM6 fittings



Span (ft.)	5		6		8		10	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	500	0.08	347	0.12	195	0.22	125	0.35
9	500	0.08	347	0.12	195	0.22	125	0.35
12	500	0.08	347	0.12	195	0.22	125	0.35
18	500	0.08	347	0.12	195	0.22	125	0.35
24	500	0.08	347	0.12	195	0.22	125	0.35
30	500	0.08	347	0.12	195	0.22	125	0.35
36	500	0.08	347	0.12	195	0.22	125	0.35

Loading Tables for **Galvannealed Husky Way****N S H0**

Use NSH0 fittings



Span (ft.)	5		6		8		10	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	432	0.07	300	0.10	169	0.18	108	0.28
9	432	0.07	300	0.10	169	0.18	108	0.28
12	432	0.07	300	0.10	169	0.18	108	0.28
18	432	0.07	300	0.10	169	0.18	108	0.28
24	432	0.07	300	0.10	169	0.18	108	0.28
30	432	0.07	300	0.10	169	0.18	108	0.28
36	432	0.07	300	0.10	169	0.18	108	0.28

N S JO

Use NSJO fittings



Span (ft.)	5		6		8		10	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	416	0.08	289	0.12	163	0.21	104	0.33
9	416	0.08	289	0.12	163	0.21	104	0.33
12	416	0.08	289	0.12	163	0.21	104	0.33
18	416	0.08	289	0.12	163	0.21	104	0.33
24	416	0.08	289	0.12	163	0.21	104	0.33
30	416	0.08	289	0.12	163	0.21	104	0.33
36	416	0.08	289	0.12	163	0.21	104	0.33

N S MO

Use NSMO fittings



Span (ft.)	5		6		8		10	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	400	0.08	278	0.12	156	0.21	100	0.33
9	400	0.08	278	0.12	156	0.21	100	0.33
12	400	0.08	278	0.12	156	0.21	100	0.33
18	400	0.08	278	0.12	156	0.21	100	0.33
24	400	0.08	278	0.12	156	0.21	100	0.33
30	400	0.08	278	0.12	156	0.21	100	0.33
36	400	0.08	278	0.12	156	0.21	100	0.33

Loading Tables for **Mill-Galv Husky Way**
P S HO

Use PSHO fittings



Span (ft.)	5		6		8		10	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	432	0.07	300	0.10	169	0.18	108	0.28
9	432	0.07	300	0.10	169	0.18	108	0.28
12	432	0.07	300	0.10	169	0.18	108	0.28
18	432	0.07	300	0.10	169	0.18	108	0.28
24	432	0.07	300	0.10	169	0.18	108	0.28
30	432	0.07	300	0.10	169	0.18	108	0.28
36	432	0.07	300	0.10	169	0.18	108	0.28

P S JO

Use PSJO fittings



Span (ft.)	5		6		8		10	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	416	0.08	289	0.12	163	0.21	104	0.33
9	416	0.08	289	0.12	163	0.21	104	0.33
12	416	0.08	289	0.12	163	0.21	104	0.33
18	416	0.08	289	0.12	163	0.21	104	0.33
24	416	0.08	289	0.12	163	0.21	104	0.33
30	416	0.08	289	0.12	163	0.21	104	0.33
36	416	0.08	289	0.12	163	0.21	104	0.33

P S M0

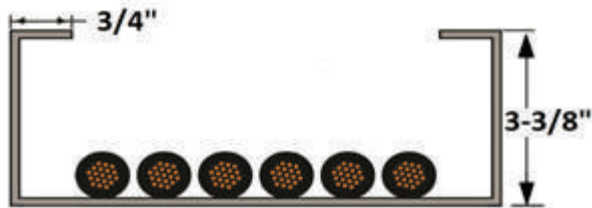
Use PSM0 fittings



Span (ft.)	5		6		8		10	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	400	0.08	278	0.12	156	0.21	100	0.33
9	400	0.08	278	0.12	156	0.21	100	0.33
12	400	0.08	278	0.12	156	0.21	100	0.33
18	400	0.08	278	0.12	156	0.21	100	0.33
24	400	0.08	278	0.12	156	0.21	100	0.33
30	400	0.08	278	0.12	156	0.21	100	0.33
36	400	0.08	278	0.12	156	0.21	100	0.33

Loading Tables for **304 SS Husky Way****4 S H0**

Use 4SH0 fittings



Span (ft.)	5		6		8		10	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	432	0.07	300	0.10	169	0.18	108	0.28
9	432	0.07	300	0.10	169	0.18	108	0.28
12	432	0.07	300	0.10	169	0.18	108	0.28
18	432	0.07	300	0.10	169	0.18	108	0.28
24	432	0.07	300	0.10	169	0.18	108	0.28
30	432	0.07	300	0.10	169	0.18	108	0.28
36	432	0.07	300	0.10	169	0.18	108	0.28

4 S J0

Use 4SJ0 fittings



Span (ft.)	5		6		8		10	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	416	0.08	289	0.12	163	0.21	104	0.33
9	416	0.08	289	0.12	163	0.21	104	0.33
12	416	0.08	289	0.12	163	0.21	104	0.33
18	416	0.08	289	0.12	163	0.21	104	0.33
24	416	0.08	289	0.12	163	0.21	104	0.33
30	416	0.08	289	0.12	163	0.21	104	0.33
36	416	0.08	289	0.12	163	0.21	104	0.33

4 S M0

Use 4SM0 fittings

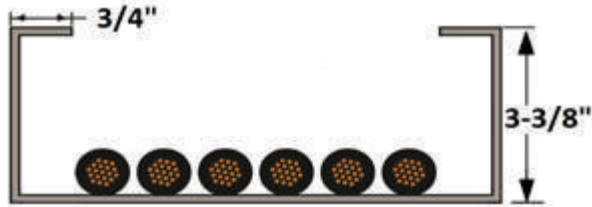


Span (ft.)	5		6		8		10	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	400	0.08	278	0.12	156	0.21	100	0.33
9	400	0.08	278	0.12	156	0.21	100	0.33
12	400	0.08	278	0.12	156	0.21	100	0.33
18	400	0.08	278	0.12	156	0.21	100	0.33
24	400	0.08	278	0.12	156	0.21	100	0.33
30	400	0.08	278	0.12	156	0.21	100	0.33
36	400	0.08	278	0.12	156	0.21	100	0.33



6 S H0

Use 6SH0 fittings



Span (ft.)	5		6		8		10	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	432	0.07	300	0.10	169	0.18	108	0.28
9	432	0.07	300	0.10	169	0.18	108	0.28
12	432	0.07	300	0.10	169	0.18	108	0.28
18	432	0.07	300	0.10	169	0.18	108	0.28
24	432	0.07	300	0.10	169	0.18	108	0.28
30	432	0.07	300	0.10	169	0.18	108	0.28
36	432	0.07	300	0.10	169	0.18	108	0.28

6 S J0

Use 6SJ0 fittings



Span (ft.)	5		6		8		10	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	416	0.08	289	0.12	163	0.21	104	0.33
9	416	0.08	289	0.12	163	0.21	104	0.33
12	416	0.08	289	0.12	163	0.21	104	0.33
18	416	0.08	289	0.12	163	0.21	104	0.33
24	416	0.08	289	0.12	163	0.21	104	0.33
30	416	0.08	289	0.12	163	0.21	104	0.33
36	416	0.08	289	0.12	163	0.21	104	0.33

6 S M0

Use 6SM0 fittings



Span (ft.)	5		6		8		10	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	400	0.08	278	0.12	156	0.21	100	0.33
9	400	0.08	278	0.12	156	0.21	100	0.33
12	400	0.08	278	0.12	156	0.21	100	0.33
18	400	0.08	278	0.12	156	0.21	100	0.33
24	400	0.08	278	0.12	156	0.21	100	0.33
30	400	0.08	278	0.12	156	0.21	100	0.33
36	400	0.08	278	0.12	156	0.21	100	0.33



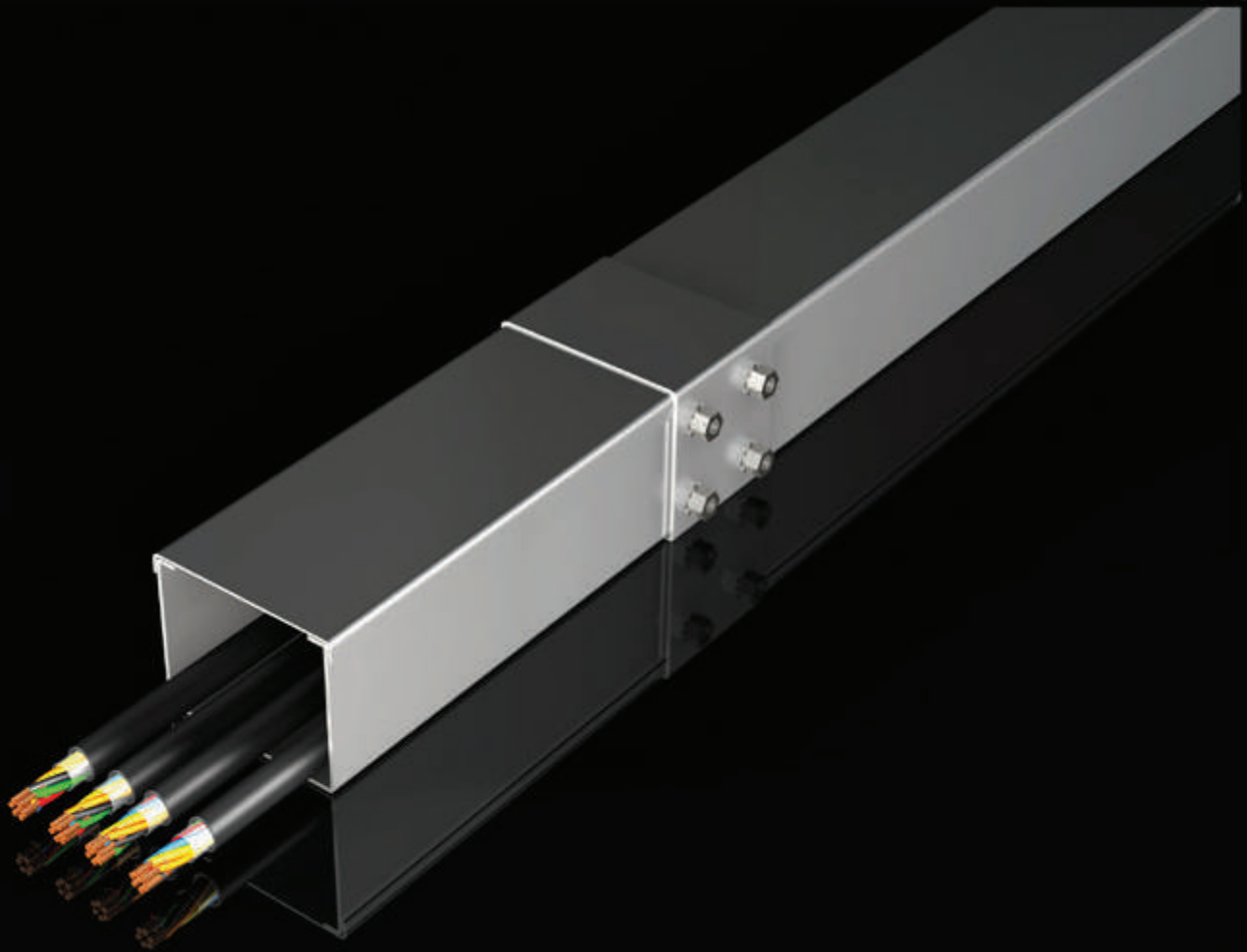
MP HUSKY™
CABLE TRAY & CABLE BUS

Husky EMI Tray

*Electromagnetic
Interference Protection*

Description of Husky EMI Tray	Pg. 97
Technical Information.....	Pgs. 98-99
Testing Charts	Pg. 100
Installation Instructions /Specs	Pgs. 101-102
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*Electromagnetic Interference Protection
for Process Control Cable and HV Switchyard
Control Cable*





Husky EMI Enclosed Tray

EMI - Electromagnetic Interference Protection

With the widespread use of computerized processing equipment in industrial facilities, the minimization of interference induced in the communication link between the in-plant transducers or primary elements and controllers is critical. Depending upon the installation, this link, in most cases a pair of electrical conductors, may be very short, or run for several hundred feet. The longer the control signal cable, the more susceptible it is to induced electrical noise. Shielding these cables with a copper braid or metallic tape will protect them from each other, but for long runs a better method of shielding is necessary for protection against external interferences. To shield these cables individually is impractical because of the large number used in a complex industrial control system. Numerous control signal cables can be protected from interference by using a properly designed and shielded enclosure.

Undesirable voltage can be induced into the control signal cables by five methods:

- 1. Electrostatic Fields**
- 2. Electromagnetic Fields**
- 3. Plane Wave Radiation**
- 4. Cross Talk**
- 5. Common Mode**

Cross talk and common mode interference are functions of the control circuits themselves and must be handled through the proper selection of cable and grounding methods. Plane wave radiation, which is of concern at very high frequencies (30MHz), is generally not a problem in the typical industrial or utility environments.

Electrostatic and Electromagnetic fields are important and directly influence the selection of shield cable enclosures.

Electrostatic interference is caused by stray capacitance between the control signal cable and other conductors and machinery in the area. This stray capacitance can be reduced by completely enclosing the control signal cable in a shielded enclosure which is a good electrical conductor. The measure of electrical effectiveness in this situation is the electrostatic attenuation. This attenuation is determined by measuring the undesirable induced voltage in the control signal cable within the shielded cable enclosure. The enclosure must be properly grounded if it is to act as an electrostatic field.



EMI - Electromagnetic Interference Protection

Electromagnetic interference is caused by the mutual inductance between the control signal cables and other surrounding power cables and machinery. This mutual inductance can be reduced (shielding the control cable) if the control signal cable is completely enclosed in a good magnetic material. An electromagnetic attenuation parameter can be defined in the same manner as the electrostatic attenuation. Unfortunately, good electrical conductors are not effective magnetic (high permeability) materials. The converse is also true. In most industrial installations, shielding must be provided against both electrostatic and electromagnetic fields. Thus a compromise must be made.

The attenuation parameters (electrostatic and electromagnetic) may be measured under laboratory conditions. A test setup is used to create the proper type of field, and the induced voltage "e¹" in a control signal cable is measured with the cable suspended in free air. Then the test is repeated with the control signal cable enclosed in the shielded enclosure and the induced voltage "e¹" is measured. The shielding effectiveness is given by the ratio of these voltages.

$$S = \frac{e^1}{e}$$

The greater the ratio, the better the shield. Due to the wide dynamic range of "S" for different types of shields, the attenuation is usually expressed as twenty times the logarithm to the base ten of "S".

$$A = 20 \log_{10} S$$

or

$$A = 20 \log_{10} \frac{e^1}{e}$$

The attenuation parameters are both functions of frequency and therefore are usually shown by a graphical display of "A_s". (Electrostatic Attenuation) and "A_m" (Electromagnetic Attenuation) plotted versus frequency.

Protection of Process Control and Instrumentation Cable

The type of signal transmitted by the primary element to the controller determines how sensitive the signal is to extraneous electrical interference. For example, the lower the voltage the higher the impedance and the more susceptible the circuit is to interference.

Since most process type primary elements operate at low voltages and amperes, care must be taken when electing shielding requirements. Typical levels of operation range between less than 100MV to 5V on voltage type elements and 1MA to 50MA on current systems.

Many companies who utilize automated process control find that high additional costs are incurred in eliminating interference in systems, not in the installation, but rather in the check-out and start-up stages of construction.

Protection of Process Control and Instrumentation Cable

Most of the additional cost can be eliminated in the engineering stages by proper selection of cable and EMI enclosures. The following guidelines will ensure the most acceptable method of installing instrumentation:

- A. Use twisted parallel pairs - shielded and grounded.**
- B. Separate control wires by frequency and voltage level.**
- C. Route control circuits to avoid power cables and machinery.**
- D. Install control cable in a Husky EMI enclosure.**
- E. Ground the shielded EMI enclosure.**

Husky EMI enclosures offer excellent attenuation characteristics while providing a low cost economical installation that allows for additional control cables, check-out and re-wiring. (See Figures 1 and 2 on the following page)

High Voltage Station Switchyard Control Cable Protection

For switchyards with primary system voltages of 230KV and above, control and instrumentation cables must be protected from induced voltages that can cause control cable insulation breakdown and damage to control components. This problem becomes more acute when solid state devices, which are even more susceptible to damage by over-voltage, are used on new installations.

The interfering induced voltages are caused by surge voltages which are either continuous wave or impulse wave types. The over voltages are present due to periodic transients, switching surges, circuit breaker or GAP flashover. Typically, induced voltages on the control cables can be in the order of 10-15KV if not adequately shielded. A shielded control cable enclosed in an EMI enclosure offers the best overall protection and provides economies in cable installation. EMI enclosures facilitate the placement of control cables above ground where rewiring or additions can be added without the high costs and corrosion problems associated with underground methods.

Tests conducted at a special high voltage test facility demonstrated that Husky's EMI enclosures offer exceptional protection by attenuating the high surge voltages to acceptable levels.

	Without Enclosure*		With EMI Enclosure **	
Surge Voltage	Type A	Type B	Type A	Type B
600 KV	7.3 KV	2.9 KV	51 Volts	17 Volts
1000 KV	16.9 KV	10.4 KV	53 Volts	26 Volts
1400 KV	24.8 KV	16.0 KV	113 Volts	23 Volts

Type A - Control cable with copper tape and drain wire

Type B - Control cable with lead shield

*Shield floating

**Shield grounded at both ends

ELECTROMAGNETIC TEST - Variable Frequency and Constant Field Intensity

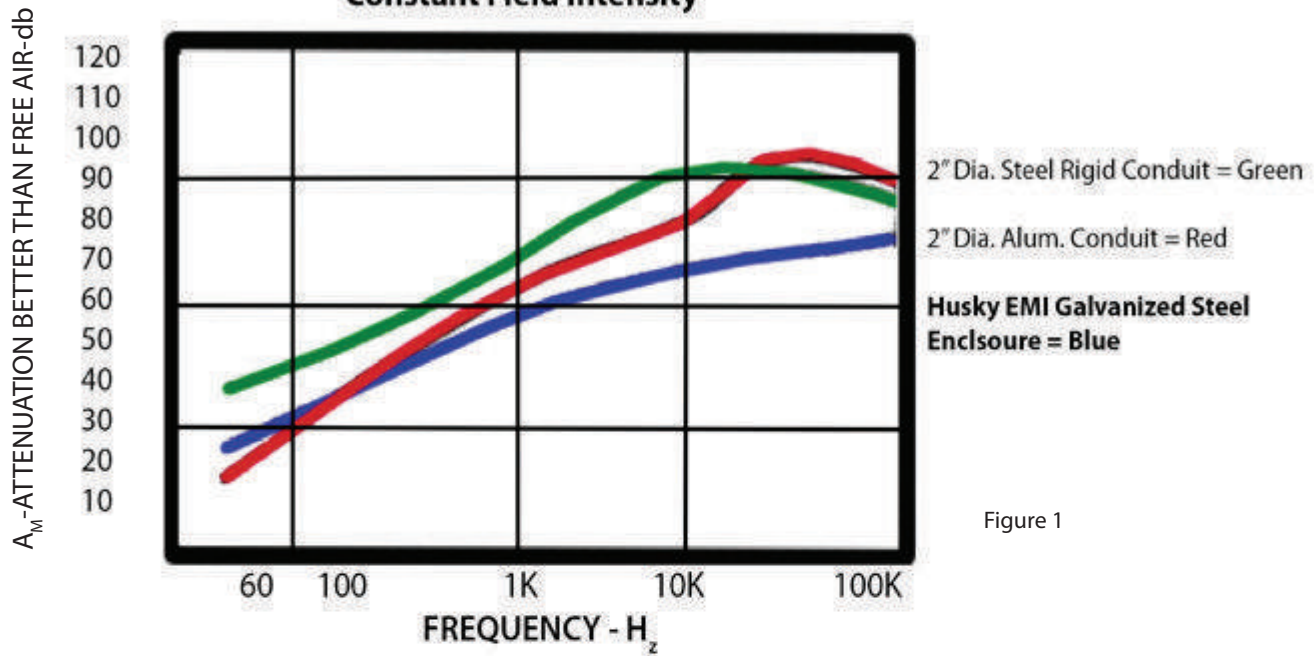


Figure 1

ELECTROSTATIC TEST - Variable Frequency and Constant Voltage

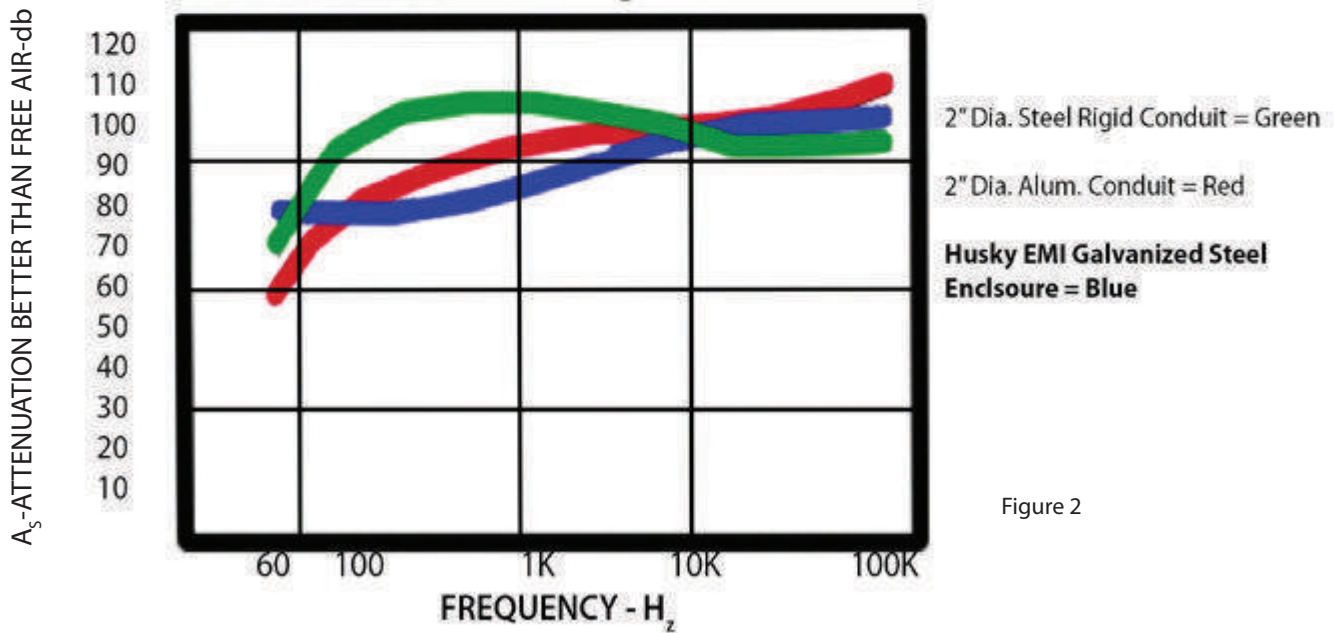


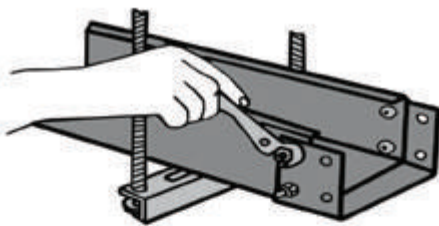
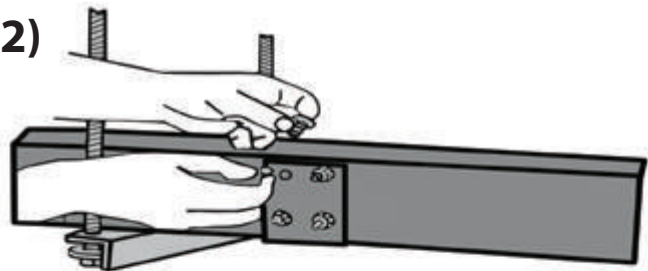
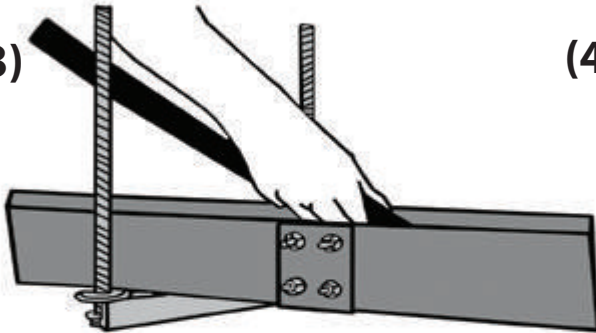
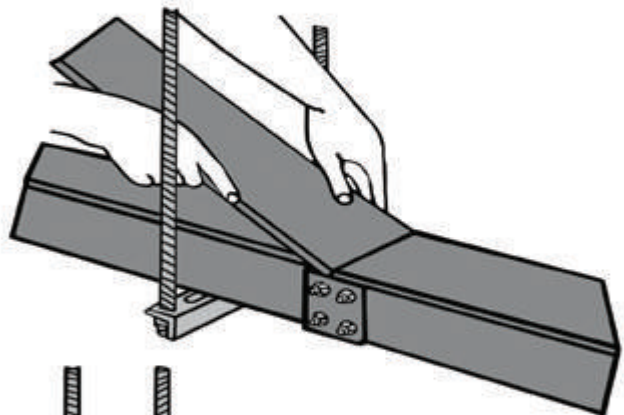
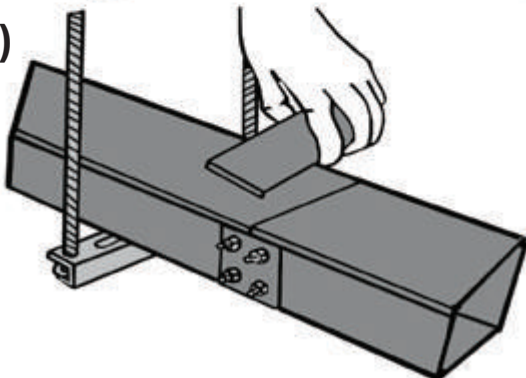
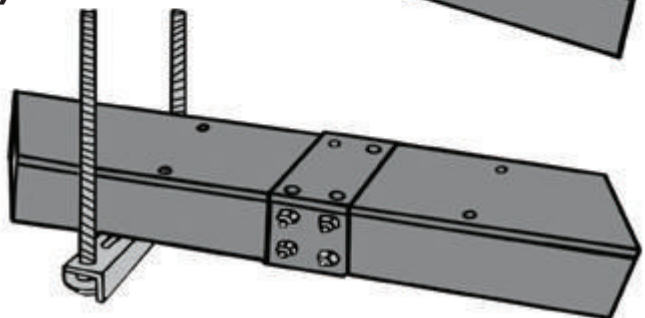
Figure 2



Installation Instructions

Husky EMI enclosures can be installed using the same conventional practices and supports associated with standard cable tray.

1. After the support material is in place, clamp the EMI enclosure to the support structure.
2. When joining sections of EMI enclosures use the lower half of the two piece wrap-around splice to connect the sections (1) and (2).
3. After all cables have been installed in the EMI enclosures (3), fasten covers in place (4), making sure that the upper half (or cover) for the wrap-around splice is placed over and secured to the butting enclosure covers (5).
4. EMI enclosure covers should be fastened down on two foot centers to maintain the Husky recommended attenuation (6). By decreasing the cover hold-down centers to one foot, an increase in attenuation of 2db would be realized across the frequency spectrum.

(1)**(2)****(3)****(4)****(5)****(6)**

Specification for Husky EMI Enclosures

1.0 General

1.01 Scope

This specification shall include all the necessary materials to provide an EMI enclosure system with a high degree of electrostatic and electromagnetic shielding for low level control circuits. The enclosures shall be designed and constructed to equal or better the EM-shielding attributes herein specified, over the frequency range of 60 H_z to 100 KH_z.

1.02 Basic Design

To meet the requirements of this specification the cable tray and cover must totally enclose the specified cables, circuits, and/or devices with metal. Non-metallic materials are not acceptable for this purpose.

2.0 Attenuation Requirements

2.01 Electrostatic Attenuation

The minimum acceptable electrostatic (electric field) shielding efficiency for the enclosure to be supplied for this installation shall be 86 db in the range of 60H_z to 100 KH_z.

2.02 Electromagnetic Attenuation

The minimum magnetic field shielding efficiency shall increase from 9 db to 55 db over the frequency range of 60 H_z through 100 KH_z.

2.03 Certification

The enclosure manufacturer shall certify in writing that the EMI enclosure to be provided will, in fact, equal or better the shielding efficiency of Paragraphs 2.01 and 2.02. Such certification will consist of a report of evaluation tests performed by the manufacturer or by an independent testing laboratory. The report will describe the enclosure, the test methods used to evaluate the product and technical data (graphics, charts, etc.) supporting the shielding performance claims for the product.

3.0 Additional Requirements

3.01 General

In addition to the above attenuation requirements, it is intended that the completed EMI enclosure system be readily accessible for installation, re-arrangement, and inspection of cables supported. Additionally, the enclosure provided shall meet the following electrical and mechanical requirements.

3.02 Electrical Continuity and Grounding

All components of the enclosure system shall be thoroughly grounded to conform with the grounding requirements of the N.E.C. A bare copper bonding cable shall be installed in the enclosure to provide adequate grounding continuity. Each section of the enclosure and all fittings shall be securely bonded to the ground bus in the enclosure with suitable grounding fitting to ascertain continuity to ground throughout the enclosure system.

3.03 Material Specifications

All members of the enclosure system, unless specifically stated herein, shall be made from ASTM A653-G90 Steel, and all EMI enclosures shall be hot-dip mill galvanized. Application of design rules and fabrication shall be in accordance with ASTM Specifications and A.W.S. Standards. The hot-dip galvanize protective covering shall conform to ASTM Standards.

3.04 Approval of EMI Enclosure

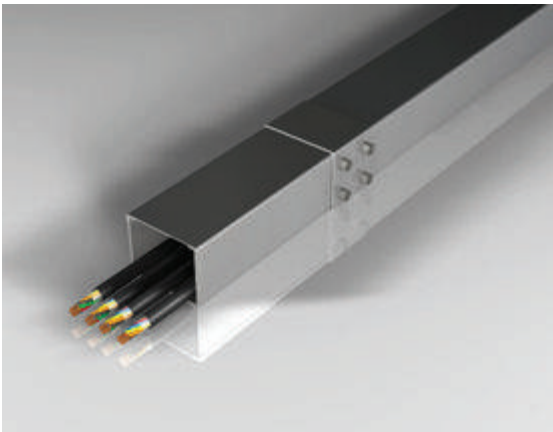
The Contractor shall submit for approval, as soon as practical and within thirty days after the award of contract and before the purchase of material, a complete schedule of the materials and equipment proposed for installation, including the specified data. Data to be submitted for approval shall consist of the Manufacturers name and the following items for each type of enclosure to be furnished: Typical Sample, Certified Attenuation Data .

Numbering / Ordering Information

EM4-12-144			
EM	(D)-	(W)-	144
Tray Type	Depth	Width	Length
Tray Type: EMI Enclosure	Depth: 4" 6"	Width: 6" 9" 12" 18" 24"	Length: 12' (144")

8-HUSKY EMI
TRAY

Other Technical Data



Material:

ASTM-A653 G90 Steel

Standard Finish:

Hot-dip mill-galvanized. (Other finishes available upon request)

Parts Included:

Each straight includes cover, wrap-around splice, hardware and self-drilling cover screws.

Other:

EMI is manufactured and tested in accordance with NEMA VE-1 and is installed in accordance with NEMA VE-2 "Cable Tray Installation Guidelines".

(For other tray sizes or specifications, please consult the factory)



		SPAN FEET							
		6		8		10		12	
(D) Depth (inches)	(W) Width (inches)	Load	Deflection	Load	Deflection	Load	Deflection	Load	Deflection
4	24	222*	.17	130	.32	83	.50	58	.72
	18	230	.18	130	.32	83	.50	58	.72
	12	230	.18	130	.32	83	.50	58	.72
	9	230	.18	130	.32	83	.50	58	.72
	6	230	.18	130	.32	83	.50	58	.72
6	24	221*	.06	185	.16	118	.25	82	.36
	18	296*	.08	185	.16	118	.25	82	.36
	12	328	.09	185	.16	118	.25	82	.36
	9	328	.09	185	.16	118	.25	82	.36
	6	328	.09	185	.16	118	.25	82	.36

*Indicates allowable load is limited by the load carrying capacity of the transverse member.

Cover Holding Devices

Catalog No. B-26 (Phillips Head)
Catalog No. B-55 (Hex Head)

All holding devices should be located on 2 foot centers, or less.

Standard - Self drilling sheet metal screws.



Clamps

Permit the easy removal of cover and access to cable. Reusable.

Length	Catalog Number
4"	JCC
6"	MCC



Optional Holding Devices

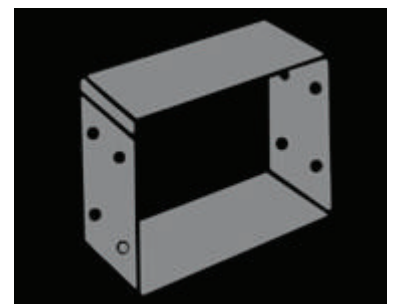
Banding - Available in 302 Stainless Steel, is an economical way of securing the cover to the enclosure.

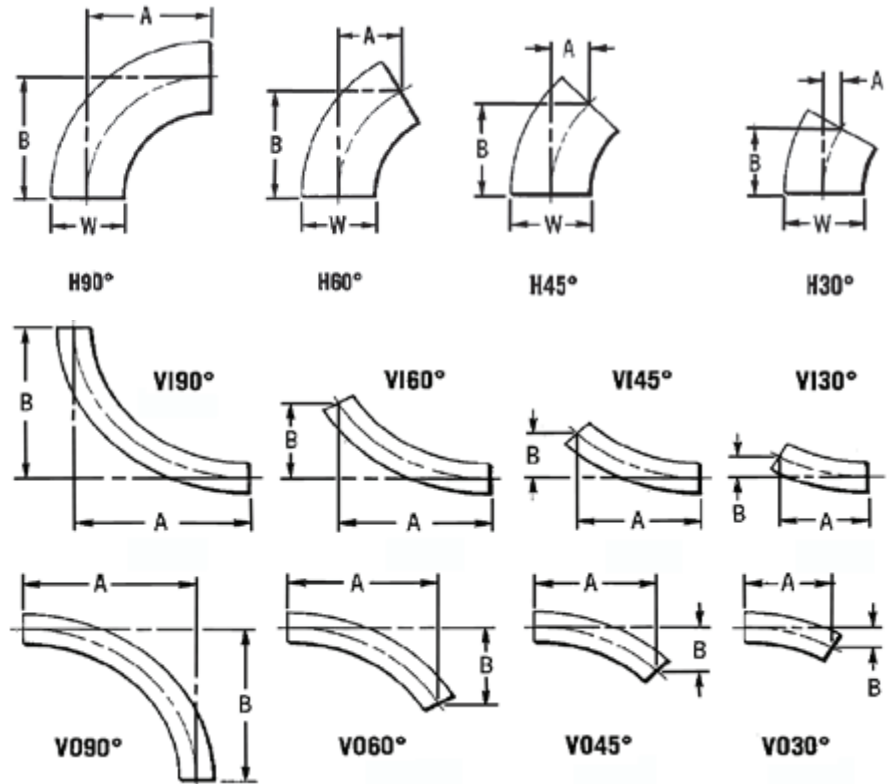
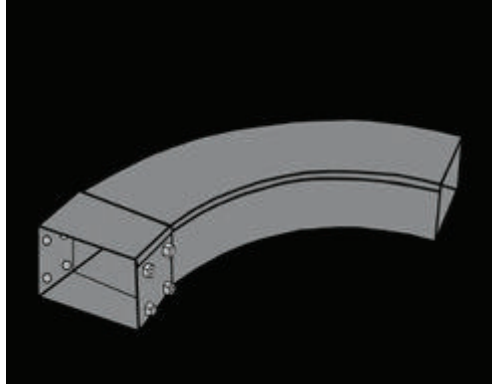
Item	Catalog Number
100' roll 1/2" wide	SCCB-100
Clips - 1/2" wide	SCCB-C
Strapping Tool	CCB-T

Wrap-Around Splice

Catalog No. EMS(D)-(W)

Specify size of splice by inserting depth & width in place of "D" and "W". The splice is supplied with all necessary hardware.





Horizontal Bend

		90 Degree		60 Degree		45 Degree		30 Degree	
(W) Width (inches)	(R) Radius (inches)	A	B	A	B	A	B	A	B
	24	36	36	18	31-3/16	10-9/16	25-7/16	4-13/16	18
24	12	24	24	12	20-3/4	7	17	3-1/4	12
	24	33	33	16-1/2	28-9/16	9-11/16	23-5/16	4-7/16	16-1/2
18	12	21	21	10-1/2	18-3/16	6-1/8	14-7/8	2-13/16	10-1/2
	24	30	30	15	26	8-13/16	21-3/16	4	15
12	12	18	18	9	15-9/16	5-1/4	12-3/4	2-7/16	9
	24	28-1/2	28-1/2	14-1/4	24-11/16	8-3/8	20-11/16	3-13/16	14-1/4
9	12	16-1/2	16-1/2	8-1/4	14-5/16	4-13/16	11-11/16	2-3/16	8-1/4
	24	27	27	13-1/2	23-3/8	7-15/16	19-1/16	3-5/8	13-1/2
6	12	15	15	7-1/2	13	4-3/8	10-5/8	2	7-1/2

Vertical Inside and Outside Bend

		90 Degree		60 Degree		45 Degree		30 Degree	
Tray Depth (inches)	(R) Radius (inches)	A	B	A	B	A	B	A	B
	24	26	26	22-1/2	13	18-3/8	7-5/8	13	3-1/2
4	12	14	14	12-1/8	7	9-7/8	4-1/8	7	1-7/8
	24	27	27	23-3/8	13-1/2	19-1/16	7-15/16	13-1/2	3-5/8
6	12	15	15	13	7-1/2	10-5/8	4-3/8	7-1/2	2



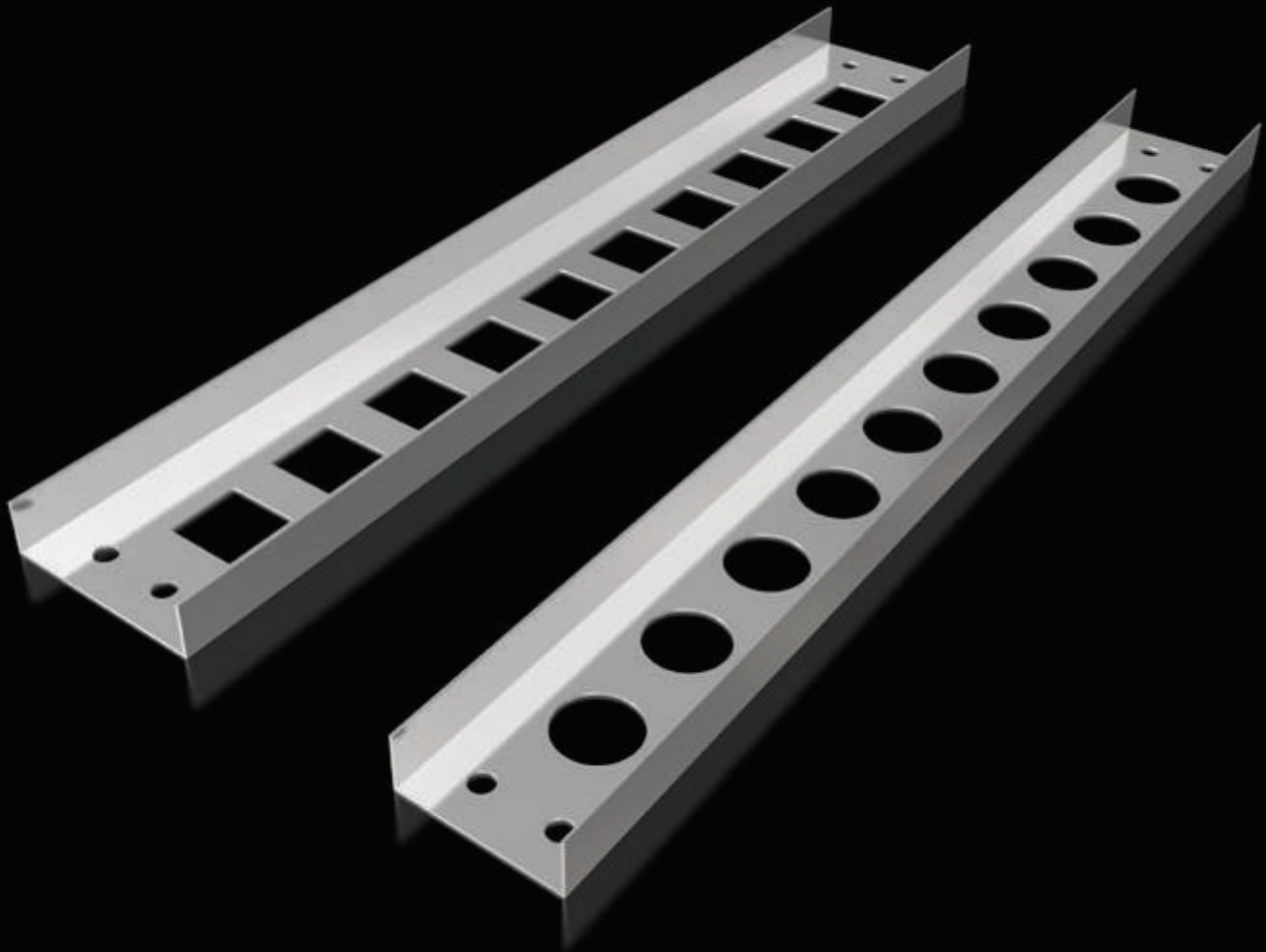
MP HUSKY[™]
CABLE TRAY & CABLE BUS

Husky Channel

4" and 6"

Numbering System.....	Pg. 107
Horizontal Bends	Pg. 108
Vertical Inside Bends	Pg. 109
Vertical Outside Bends	Pg. 110
Horizontal Crosses & Tees.....	Pg. 111

The compact size of Husky Channel Tray makes it easier to position around and connect to equipment.





Channel Numbering System

SSG-6-144				
P R E F I X				
S	S	G-	6-	144
Material	Solid Bottom	Tray Type	Width in Inches	Length in Inches

Materials:

A=Aluminum
S=HDGAF Steel
P=Mill Galv Steel
4=Stainless Steel 304
6=Stainless Steel 316

Bottom

Indicates solid bottom channel
 Omit this "S" if you do **not** require solid bottom tray

Tray Types:

Aluminum
 AG, ASG
Steel
 SG, SSG, PG, PSG, 4G, 4SG, 6G, 6SG

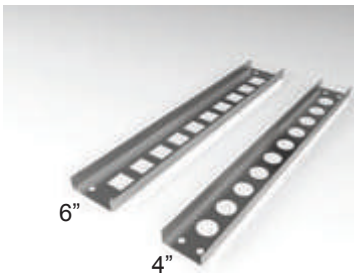
Widths:

4"
6"

Lengths:

12' (144")
 24' (288")

Other Technical Data


Depth:

1-3/4 inches outside with a loading depth of 1-5/8 inches inside.

Fittings:

12, 24, or 36 inch standard radii (See this section of this catalog).

Channel Bottoms:

All channels have flat bottoms and are available with or without ventilation holes. All fittings are non-ventilated.

Splice Plates:

Straight sections and fittings are supplied with splice plates and hardware.

Safety Factor:

1.5 NEMA Standard



To ensure data available is most current, please visit www.MPHUSKY.com

Straight Sections & Fittings

Table 6.1

Basic Catalog Number							
Type Prefix						Width (in inches)	Length (in inches)
Bottom	Stainless Steel 304	Stainless Steel 316	HDGAF Steel	Mill-Galv Steel	Aluminum		
Ventilated	4G-	6G-	SG-	PG-	AG-	4", 6"	144", 288"
Solid	4SG-	6SG-	SSG-	PSG-	ASG-	4", 6"	144", 288"

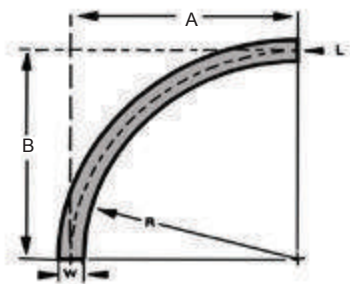
Loading Tables

Table 6.2

			Span (Feet)									
	Width (In.)	Approx. Weight (lbs./ft.)	6		8		10		12		14	
			Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
Steel	4	1.30	---	---	22.5	.57	14.4	.89	10.0	1.29	7.35	1.75
	6	1.43	---	---	23.5	.54	15.0	.86	10.4	1.23	7.70	1.68
Aluminum	4	.68	---	---	22.4	1.10	14.3	1.72	10.0	2.47	7.30	3.37
	6	.74	---	---	23.4	1.05	15.0	1.65	10.4	2.37	7.60	3.23



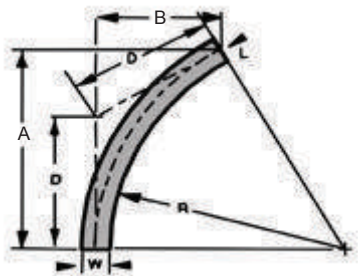
90° Horizontal Bend



Catalog No.

Width	Radius	Prefix	Basic	R	A	B	L
6	36	See Table 6.1	6H90-36	34-5/8"	37-1/2"	37-1/2"	58-15/16"
	24		6H90-24	22-1/2"	25-1/2"	25-1/2"	40-1/16"
	12		6H90-12	11-7/8"	14-7/8"	14-7/8"	23-3/8"
4	36		4H90-36	34-1/2"	36-1/2"	36-1/2"	57-5/16"
	24		4H90-24	22-1/2"	24-1/2"	24-1/2"	38-1/2"
	12		4H90-12	11-7/8"	13-7/8"	13-7/8"	21-3/4"

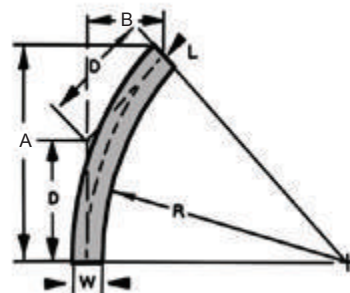
60° Horizontal Bend



Catalog No.

Width	Radius	Prefix	Basic	R	A	B	L	D
6	36	See Table 6.1	6H60-36	34-5/8"	32-1/2"	18-3/4"	21-5/8"	39-1/4"
	24		6H60-24	22-1/2"	22-1/16"	12-3/4"	14-3/4"	26-11/16"
	12		6H60-12	11-7/8"	12-7/8"	7-7/16"	8-9/16"	15-9/16"
4	36		4H60-36	34-1/2"	31-5/8"	18-1/4"	21-1/16"	38-1/4"
	24		4H60-24	22-1/2"	21-3/16"	12-1/4"	14-1/8"	25-11/16"
	12		4H60-12	11-7/8"	12"	6-15/16"	8"	14-1/2"

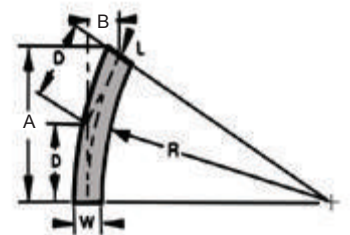
45° Horizontal Bend



Catalog No.

Width	Radius	Prefix	Basic	R	A	B	L	D
6	36	See Table 6.1	6H45-36	34-5/8"	26-1/2"	11"	15-9/16"	29-7/16"
	24		6H45-24	22-1/2"	18"	7-1/2"	10-9/16"	20"
	12		6H45-12	11-7/8"	10-1/2"	4-3/8"	6-3/16"	11-11/16"
4	36		4H45-36	34-1/2"	25-13/16"	10-11/16"	15-1/8"	28-11/16"
	24		4H45-24	22-1/2"	17-5/16"	7-3/16"	10-1/8"	19-1/4"
	12		4H45-12	11-7/8"	9-13/16"	4-1/16"	5-3/4"	10-7/8"

30° Horizontal Bend



Catalog No.

Width	Radius	Prefix	Basic	R	A	B	L	D
6	36	See Table 6.1	6H30-36	34-5/8"	18-3/4"	5"	10-1/16"	19-5/8"
	24		6H30-24	22-1/2"	12-3/4"	3-7/16"	6-13/16"	13-5/16"
	12		6H30-12	11-7/8"	11-7/8"	2"	4"	7-3/4"
4	36		4H30-36	34-1/2"	18-1/4"	4-7/8"	9-3/4"	19-1/8"
	24		4H30-24	22-1/2"	12-1/4"	3-5/16"	6-9/16"	12-13/16"
	12		4H30-12	11-7/8"	6-15/16"	1-7/8"	3-11/16"	7-1/4"

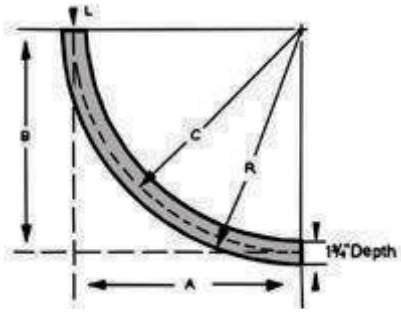
Sample Catalog Number
(Prefix + Basic)

ASG-

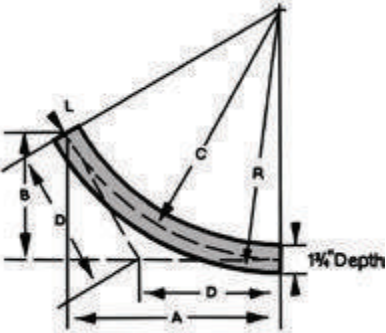
6H30-36

Aluminum Solid Bottom 30°
Horizontal Bend—6"W x 36" R

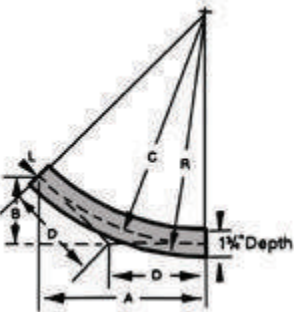
Note: All Channel fittings are non-ventilated

90° Vertical Inside Bend


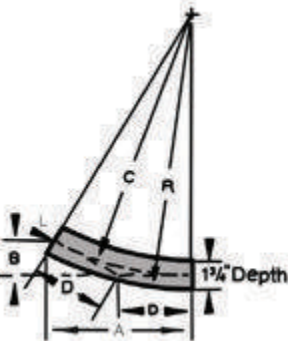
		Catalog No.		A	B	C	L
Width	Radius	Prefix	Basic				
6	36	See Table 6.1	6VI90-36	35-1/8"	35-1/8"	35-1/8"	55-3/16"
	24		6VI90-24	23-1/8"	23-1/8"	23-1/8"	36-5/16"
	12		6VI90-12	11-1/8"	11-1/8"	11-1/8"	17-1/2"
4	36		4VI90-36	35-1/8"	35-1/8"	35-1/8"	55-3/16"
	24		4VI90-24	23-1/8"	23-1/8"	23-1/8"	36-5/16"
	12		4VI90-12	11-1/8"	11-1/8"	11-1/8"	17-1/2"

60° Vertical Inside Bend


		Catalog No.		A	B	C	D	L
Width	Radius	Prefix	Basic					
6	36	See Table 6.1	6VI60-36	30-7/16"	17-5/8"	35-1/8"	20-5/16"	36-13/16"
	24		6VI60-24	20"	11-9/16"	23-1/8"	13-3/8"	24-3/16"
	12		6VI60-12	9-5/8"	5-9/16"	11-1/8"	6-7/16"	11-5/8"
4	36		4VI60-36	30-7/16"	17-5/8"	35-1/8"	20-5/16"	36-13/16"
	24		4VI60-24	20"	11-9/16"	23-1/8"	13-3/8"	24-3/16"
	12		4VI60-12	9-5/8"	5-9/16"	11-1/8"	6-7/16"	11-5/8"

45° Vertical Inside Bend


		Catalog No.		A	B	C	D	L
Width	Radius	Prefix	Basic					
6	36	See Table 6.1	6VI45-36	24-7/8"	10-5/16"	35-1/8"	14-9/16"	27-9/16"
	24		6VI45-24	16-3/8"	6-3/4"	23-1/8"	9-9/16"	18-3/16"
	12		6VI45-12	7-7/8"	3-1/4"	11-1/8"	4-5/8"	8-3/4"
4	36		4VI45-36	24-7/8"	10-5/16"	35-1/8"	14-9/16"	27-9/16"
	24		4VI45-24	16-3/8"	6-3/4"	23-1/8"	9-9/16"	18-3/16"
	12		4VI45-12	7-7/8"	3-1/4"	11-1/8"	4-5/8"	8-3/4"

30° Vertical Inside Bend


		Catalog No.		A	B	C	D	L
Width	Radius	Prefix	Basic					
6	36	See Table 6.1	6VI30-36	17-9/16"	4-3/4"	35-1/8"	9-7/16"	18-3/8"
	24		6VI30-24	11-9/16"	3-1/16"	23-1/8"	6-3/16"	12-1/8"
	12		6VI30-12	5-9/16"	1-1/2"	11-1/8"	3"	5-13/16"
4	36		4VI30-36	17-9/16"	4-3/4"	35-1/8"	9-7/16"	18-3/8"
	24		4VI30-24	11-9/16"	3-1/16"	23-1/8"	6-3/16"	12-1/8"
	12		4VI30-12	5-9/16"	1-1/2"	11-1/8"	3"	5-13/16"

**Sample Catalog Number
(Prefix + Basic)**

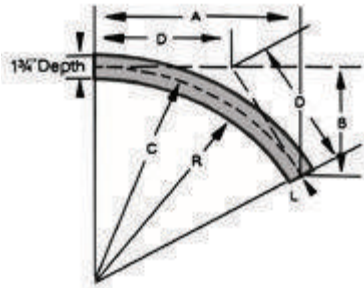
6SG-

6VI30-24

316 Stainless Steel Solid Bottom
30° Vertical Inside Bend-6"W x 24"R

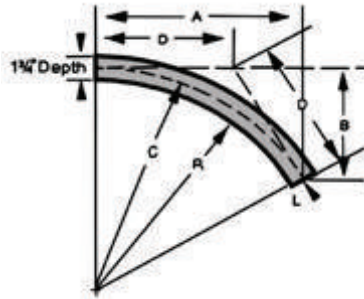
Note: All Channel fittings are non-ventilated

90° Vertical Outside Bend



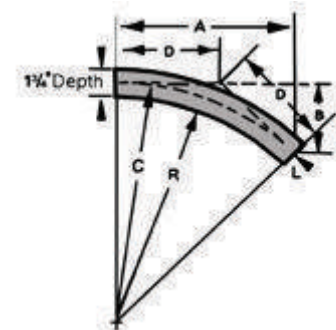
		Catalog No.					
Width	Radius	Prefix	Basic	A	B	C	L
6	36	See Table 6.1	6VO90-36	36-7/8"	36-7/8"	36-7/8"	57-15/16"
	24		6VO90-24	24-7/8"	24-7/8"	24-7/8"	39-1/16"
	12		6VO90-12	12-7/8"	12-7/8"	12-7/8"	20-1/4"
4	36		4VO90-36	36-7/8"	36-7/8"	36-7/8"	57-15/16"
	24		4VO90-24	24-7/8"	24-7/8"	24-7/8"	39-1/16"
	12		4VO90-12	12-7/8"	12-7/8"	12-7/8"	20-1/4"

60° Vertical Outside Bend



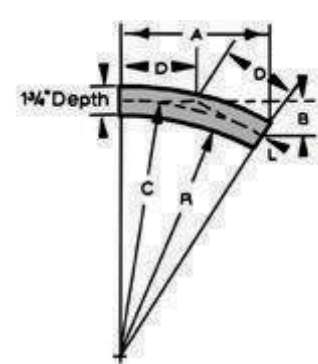
		Catalog No.						
Width	Radius	Prefix	Basic	A	B	C	D	L
6	36	See Table 6.1	6VO60-36	31-15/16"	18-7/16"	36-7/8"	21-5/16"	38-5/8"
	24		6VO60-24	21-9/16"	12-7/16"	24-7/8"	14-3/8"	26-1/16"
	12		6VO60-12	11-1/8"	6-7/16"	12-7/8"	7-7/16"	13-7/16"
4	36		4VO60-36	31-15/16"	18-7/16"	36-7/8"	21-5/16"	38-5/8"
	24		4VO60-24	21-9/16"	12-7/16"	24-7/8"	14-3/8"	26-1/16"
	12		4VO60-12	11-1/8"	6-7/16"	12-7/8"	7-7/16"	13-7/16"

45° Vertical Outside Bend



		Catalog No.						
Width	Radius	Prefix	Basic	A	B	C	D	L
6	36	See Table 6.1	6VO45-36	26-1/16"	10-3/4"	36-7/8"	15-1/4"	28-15/16"
	24		6VO45-24	17-9/16"	7-5/16"	24-7/8"	10-5/16"	19-9/16"
	12		6VO45-12	9-1/8"	3-3/4"	12-7/8"	5-5/16"	10-1/8"
4	36		4VO45-36	26-1/16"	10-3/4"	36-7/8"	15-1/4"	28-15/16"
	24		4VO45-24	17-9/16"	7-5/16"	24-7/8"	10-5/16"	19-9/16"
	12		4VO45-12	9-1/8"	3-3/4"	12-7/8"	5-5/16"	10-1/8"

30° Vertical Outside Bend



		Catalog No.						
Width	Radius	Prefix	Basic	A	B	C	D	L
6	36	See Table 6.1	6VO30-36	18-7/16"	4-15/16"	36-7/8"	9-7/8"	19-5/16"
	24		6VO30-24	12-7/16"	3-5/16"	24-7/8"	6-5/8"	13"
	12		6VO30-12	5-7/16"	1-3/4"	12-7/8"	3-7/16"	6-3/4"
4	36		4VO30-36	18-7/16"	4-15/16"	36-7/8"	9-7/8"	19-5/16"
	24		4VO30-24	12-7/16"	3-5/16"	24-7/8"	6-5/8"	13"
	12		4VO30-12	5-7/16"	1-3/4"	12-7/8"	3-7/16"	6-3/4"

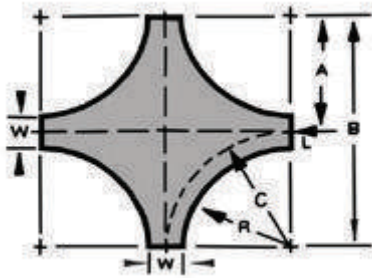
Sample Catalog Number
(Prefix + Basic)

SSG-

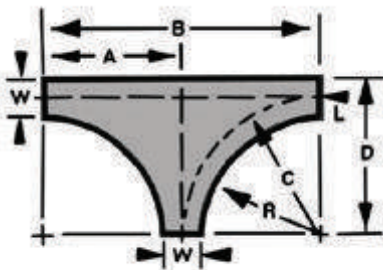
6VO45-12

HDGAF Steel Solid Bottom 45°
Vertical Outside Bend—6"W x 12" R

Note: All Channel fittings are non-ventilated

Horizontal Cross

Catalog No.

Width	Radius	Prefix	Basic	A	B	C	L
6	36	See Table 6.1	6X-36	39"	78"	39"	61-1/4"
	24		6X-24	27"	54"	27"	42-3/8"
	12		6X-12	15"	30"	15"	23-1/2"
4	36		4X-36	38"	76"	38"	59-11/16"
	24		4X-24	26"	52"	26"	40-13/16"
	12		4X-12	14"	28"	14"	21"

Horizontal Tee

Catalog No.

Width	Radius	Prefix	Basic	A	B	C	D	L
6	36	See Table 6.1	6T-36	39"	78"	39"	42"	61-1/4"
	24		6T-24	27"	54"	27"	30"	42-3/8"
	12		6T-12	15"	30"	15"	18"	23-1/2"
4	36		4T-36	38"	76"	38"	40"	59-11/16"
	24		4T-24	26"	52"	26"	28"	40-15/16"
	12		4T-12	14"	28"	14"	16"	21"

9-CHANNEL

**Sample Catalog Number
(Prefix + Basic)**
ASG-
6X-36

 Aluminum Solid Bottom—Horizontal
Cross—6"W x 36" R

Note: All Channel fittings are non-ventilated



MP HUSKY™
CABLE TRAY & CABLE BUS

Fittings

*For Husky Ladder, Husky
Trough & Husky Way*

Numbering System.....	Pgs. 113-116
Horizontal Crosses & Tees.....	Pgs. 117-124
Horizontal Bends	Pgs. 125-126
Vertical Bends	Pgs. 127-130
Vertical Supports & Tees.....	Pgs. 131-132
Reducers	Pg. 133
Reducing Splice Plates.....	Pg. 134





Numbering System

Example Fitting for S6YD, S9YD, S12YD



SLYD-24H90-24				
Prefix	Basic Part Number			
SLYD-	24	H	90-	24
Tray Fitting Prefix Prefix Determined By Chart Below and Based on Straight Tray Prefix	Tray Width 6", 9", 12", 18", 24", 30", 36"	Bend H=Horizontal VI=Vertical Inside VO=Vertical Outside T=Tee VT=Vertical Tee VTU=Upside-Down Vert. Tee VS=Vertical Support 90° X=Cross R=Straight Reducer RL=Left Hand Reducer RR=Right Hand Reducer	Degree of Bend 30°, 45°, 60°, or 90°	Fitting Radius 12", 24" or 36"

To Determine Fitting Catalog Number (Prefix + Basic Part Number):

1. Select prefix of type of Cable Tray required for your application from Catalog pages below:

Aluminum

Flange-In Ladder	Page 113
Flange-Out Ladder	Page 113
I-Beam Ladder	Page 113
Husky Way	Page 113
Trough	Page 114
I-Beam Trough	Page 114

Steel

Flange-In Ladder	Page 115-116
Flange-Out Ladder	Page 115-116
Trough	Page 115-116
Husky Way	Page 116
EMI	Page 116

2. Use selected Cable Tray prefix in the Fitting Prefix Selection Tables below to select the corresponding fitting prefix.
3. Go to Pages 117-134 in this section to find the desired fittings and select the Basic Part Numbers that correspond to the required fittings.
4. Add fitting prefix to basic part numbers to complete product catalog numbers (example above).

A L U M I N U M Fitting Prefix Selection Table

Husky Ladder - Flange-In			Husky Ladder - Flange-Out			Husky I-Beam Ladder		
Rail Height	Straight Tray	Fitting Prefix	Rail Height	Straight Tray	Fitting Prefix	Rail Height	Straight Tray	Fitting Prefix
4-1/2"	A6JA, A9JA, A12JA	ALJA				4-1/2"A	A6IJA, A9IJA, A12IJA	ALIJA
4-1/2"	A6JB, A9JB, A12JB	ALJB	4-1/2"	A9BB, A12BB, A18BB	ALBB	4-1/2"	A6IJB, A9IJB, A12IJB	ALIJB
4-1/2"	A6YA2, A9YA2, A12YA2	ALYA2	4-1/2"	A9CA2, A12CA2, A18CA2	ALCA2	4-1/2"	A6IJC, A9IJC, A12IJC	ALIJC
6"	A6MB1, A9MB1, A12MB1	ALMB1	6"	A6PB1, A9PB1, A12PB1	ALPB1	4-1/2"	A6IYA, A9IYA, A12IYA	ALIYA
6"	A6MC, A9MC, A12MC	ALMC	6"	A9PC, A12PC, A18PC	ALPC	4-1/2"	A6IYB, A9IYB, A12IYB	ALIYB
6"	A6XA, A9XA, A12XA	ALX	6"	A9EA, A12EA, A18EA	ALE	4-1/2"	A6IYC, A9IYC, A12IYC	ALIYC
6"	A6X, A9X, A12X	ALX	6"	A9E, A12E, A18E	ALE	6"	A6IMB, A9IMB, A12IMB	ALIMB
6"	A6X1, A9X1, A12X1	ALX	6"	A9E1, A12E1, A18E1	ALE	6"	A6IMC, A9IMC, A12IMC	ALIMC
6"	A9X1M, A12X1M, A18X1M	ALX1M	6"	A9E1M, A12E1M, A18E1M	ALE1M	6"	A6IMD, A9IMD, A12IMD	ALIMD
7"	A6X7, A9X7, A12X7	ALX7	7"	A9E7, A12E7, A18E7	ALE7	6"	A6IXA, A9IXA, A12IXA	ALIXA
7"	A6X71, A9X71, A12X71	ALX7	7"	A9E71, A12E71, A18E71	ALE7	6"	A6IXB, A9IXB, A12IXB	ALIXB
8"	A6L1, A9L1, A12L1	ALL1				6"	A6IXC, A9IXC, A12IXC	ALIXC
10"	A6D1, A9D1, A12D1	ALD1				6"	A6IXD, A9IXD, A12IXD	ALIXD
Aluminum Husky Way						6"	A9I6, A12I6, A18I6	ALI6
3-3/8"	ASH6	ASH6				7"	A6IXD7, A9IXD7, A12IXD7	ALIXD7
4"	ASJ6	ASJ6				8"	A9I8, A12I8, A18I8	ALI8
6"	ASM6	ASM6						



Numbering System (cont'd)

A L U M I N U M Fitting Prefix Selection Table							
Aluminum Husky Trough				Aluminum Husky I-Beam Trough			
Rail Height	Straight Tray	Ventilated Fitting Prefix	Solid Fitting Prefix	Rail Height	Straight Tray	Ventilated Fitting Prefix	Solid Fitting Prefix
4-1/2"	AJA/ASJA	AJA	ASJA	4-1/2"	AIJA/ASIJA	AIJA	ASIJA
4-1/2"	A4JA	A4JA		4-1/2"	A4IJA	A4IJA	
4-1/2"	AJB/ASJB	AJB	ASJB	4-1/2"	AIBJ/ASIJB	AIBJ	ASIJB
4-1/2"	A4JB	A4JB		4-1/2"	A4IJB	A4IJA	
4-1/2"	AYA2/ASYA2	AYA2	ASYA2	4-1/2"	AIJC/ASIJC	AIJC	ASIJC
4-1/2"	A4YA2	A4YA2		4-1/2"	A4IJC	A4IJC	
6"	AMB1/ASMB1	AMB1	ASMB1	4-1/2"	AIYA/ASIYA	AIYA	ASIYA
6"	A4MB1	A4MB1		4-1/2"	A4IYA	A4IYA	
6"	AMC/ASMC	AMC	ASMC	4-1/2"	AIYB/ASIYB	AIYB	ASIYB
6"	A4MC	A4MC		4-1/2"	A4IYB	A4IYB	
6"	AXA/ASXA	AX	ASX	4-1/2"	AIYC	AIYC	ASIYC
6"	A4XA	A4X		4-1/2"	A4IYC	A4IYC	
6"	AX/ASX	AX	ASX	6"	AIMB/ASIMB	AIMB	ASIMB
6"	A4X	A4X		6"	A4IMB	A4IMB	
6"	AX1/ASX1	AX	ASX	6"	AIMC/ASIMC	AIMC	ASIMC
6"	A4X1	A4X		6"	A4IMC	A4IMC	
6"	AX1M,ASX1M	AX1M	ASX1M	6"	AIMD/ASIMB	AIMD	ASIMD
6"	A4X1M	A4X1M		6"	A4IMD	A4IMD	
7"	AX7/ASX7	AX7	ASX7	6"	AIXA/ASIXA	AIXA	ASIXA
7"	A4X7	A4X7		6"	A4IXA	A4IXA	
7"	AX71/ASX71	AX7	ASX7	6"	AIXB/ASIXB	AIXB	ASIXB
7"	A4X71	A4X71		6"	A4IXB	A4IXB	
8"	AL1/ASL1	AL1	ASL1	6"	AIXC/ASIXC	AIXC	ASIXC
8"	A4L1	A4L1		6"	A4IXC	A4IXC	
10"	AD1/ASD1	AD1	ASD1	6"	AIXD/ASIXD	AIXD	ASIXD
10"	A4D1	A4D1		6"	A4IXD	A4IXD	
				6"	AI6, ASI6	AI6	ASI6
				6"	A4I6	A4I6	
				7"	AIXD7/ASIXD7	AIXD7	ASIXD7
				7"	A4IXD7	A4IXD7	
				8"	AI8/ASI8	AI8	ASI8
				8"	A4I8	A4I8	

10-FITTINGS

To ensure data available is most current, please visit www.MPHUSKY.com





Numbering System (cont'd)

S T E E L Fitting Prefix Selection Table

Husky Trough				Husky Ladder - Flange-In		Husky Ladder - Flange-Out	
Rail Height	Straight Tray	Ventilated Fitting Prefix	Solid Fitting Prefix	Straight Tray	Fitting Prefix	Straight Tray	Fitting Prefix
3-3/8"	SHA/SSHA	SHA	SSHA	S6HA, S9HA, S12HA	SLHA	————	——
3-3/8"	S4HA	S4HA					
3-3/8"	PHA/PSHA	PHA	PSHA	P6HA, P9HA, P12HA	PLHA	————	——
3-3/8"	P4HA	P4HA					
4"	SJ2/SSJ2	SJ2	SSJ2	S6J2, S9J2, S12J2	SLJ2	S9B2, S12B2, S18B2	SLB2
4"	S4J2	S4J2					
4"	PJ2/PSJ2	PJ2	PSJ2	P6J2, P9J2, P12J2	PLJ2	————	——
4"	P4J2	P4J2					
4-1/2"	SKC/SSKC	SKC	SSKC	S6KC, S9KC, S12KC	SLKC	S9FC, S12FC, S18FC	SLFC
4-1/2"	S4KC	S4KC					
4-1/2"	PKC/PSKC	PKC	PSKC	P6KC, P9KC, P12KC	PLKC	————	——
4-1/2"	P4KC	P4KC					
4-1/2"	SYD/SSYD	SYD	SSYD	S6YD, S9YD, S12YD	SLYD	S9CD, S12CD, S18CD	SLCD
4-1/2"	S4YD	S4YD					
4-1/2"	PYD/PSYD	PYD	PSYD	P6YD, P9YD, P12YD	PLYD	————	——
4-1/2"	P4YD	P4YD					
6"	SM61/SSM61	SM61	SSM61	S6M61, S9M61, S12M61	SLM61	S9P61, S12P61, S18P61	SLP61
6"	S4M61	S4M61					
6"	PM61/PSM	PM61	PSM61	P6M61, P9M61, P12M61	PLM61	————	——
6"	P4M61	P4M61					
6"	SMD4/SSMD4	SMD4	SSMD4	S6MD4, S9MD4, S12MD4	SLMD4	S9PD4, S12PD4, S18PD4	SLPD4
6"	S4MD4	S4MD4					
6"	PMD4/PSMD4	PMD4	PSMD4	P6MD4, P9MD4, P12MD4	PLMD4	————	——
6"	P4MD4	P4MD4					
6-1/4"	SXB/SSXB	SXB	SSXB	S6XB, S9XB, S12XB	SLXB	S9EB, S12EB, S18EB	SLEB
6-1/4"	S4XB	S4XB					
6-1/4"	PXB/PSXB	PXB	PSXB	P6XB, P9XB, P12XB	PLXB	————	——
6-1/4"	P4XB	P4XB					
6-1/4"	SXC/SSXC	SXC	SSXC	S6XC, S9XC, S12XC	SLXC	S9EC, S12EC, S18EC	SLEC
6-1/4"	S4XC	S4XC					
6-1/4"	PXC/PSXC	PXC	PSXC	P6XC, P9XC, P12XC	PLXC	————	——
6-1/4"	P4XC	P4XC					
6-1/4"	SXD/SSXD	SXD	SSXD	S6XD, S9XD, S12XD	SLXD	S9ED, S12ED, S18ED	SLED
6-1/4"	S4XD	S4XD					
6-1/4"	PXD/PSXD	PXD	PSXD	P6XD, P9XD, P12XD	PLXD	————	——
6-1/4"	P4XD	P4XD					

10-FITTINGS



Numbering System (cont'd)

Numbering System

Insert the Fitting Prefix—Each cable tray has a corresponding prefix which is used to determine the complete fitting part number. Use this table to locate the correct prefix. To assemble the part number select prefix and then add Basic number from charts on following pages.

S T E E L Fitting Prefix Selection Table							
Husky Trough				Husky Ladder - Flange-In		Husky Ladder - Flange-Out	
Rail Height	Straight Tray	Ventilated Fitting Prefix	Solid Fitting Prefix	Straight Tray	Fitting Prefix	Straight Tray	Fitting Prefix
7"	SMD7/SSMD7	SMD7	SSMD7	S6MD7, S9MD7, S12MD7	SLMD7	S9PD7, S12PD7, S18PD7	SLPD7
7"	S4MD7	S4MD7					
7"	PMD7/PSMD7	PMD7	PSMD7	P6MD7, P9MD7, P12MD7	PLMD7	—————	———
7"	P4MD7	P4MD7					
7"	SMD74/SSMD74	SMD74	SSMD74	S6MD74, S9MD74, S12MD74	SLMD74	S9PD74, S12PD74, S18PD74	SLPD74
7"	S4MD74	S4MD74					
7"	PMD74/PSMD74	PMD74	PSMD74	P6MD74, P9MD74, P12MD74	PLMD74		
7"	P4MD74	P4MD74					
7"	SXA7/SSXA7	SXA7	SSXA7	S6XA7, S9XA7, S12XA7	SLXA7		
7"	S4XA7	S4XA7					
7"	PXA7/PSXA7	PXA7	PSXA7	P6XA7, P9XA7, P12XA7	PLXA7		
7"	P4XA7	P4XA7					
7"	SXB7/SSXB7	SXB7	SSXB7	S6XB7, S9XB7, S12XB7	SLXB7	S9EB7, S12EB7, S18EB7	SLEB7
7"	S4XB7	S4XB7					
7"	PXB7/PSXB7	PXB7	PSXB7	P6XB7, P9XB7, P12XB7	PLXB7		
7"	P4XB7	P4XB7					
7"	SXC7/SSXC7	SXC7	SSXC7	S6XC7, S9XC7, S12XC7	SLXC7	S9EC7, S12EC7, S18EC7	SLEC7
7"	S4XC7	S4XC7					
7"	PXC7/PSXC7	PXC7	PSXC7	P6XC7, P9XC7, P12XC7	PLXC7		
7"	P4XC7	P4XC7					
7"	SXD7/SSXD7	SXD7	SSXD7	S6XD7, S9XD7, S12XD7	SLXD7		
7"	S4XD7	S4XD7					
7"	PXD7/PSXD7	PXD7	PSXD7	P6XD7, P9XD7, P12XD7	PLXD7		
7"	P4XD7	P4XD7					
Steel Husky Way				Steel EMI Tray			
3-3/8"	PSH0	PSH0					
4"	PSJ0	PSJ0		EM4	EM4		
6"	PSM0	PSM0		EM6	EM6		
3-3/8"	NSH0	NSH0					
4"	NSJ0	NSJ0					
6"	NSM0	NSM0					
3-3/8"	4SH0	4SH0					
4"	4SJ0	4SJ0					
6"	4SM0	4SM0					
3-3/8"	6SH0	6SH0					
4"	6SJ0	6SJ0					
6"	6SM0	6SM0					

To ensure data available is most current, please visit www.MPHUSKY.com

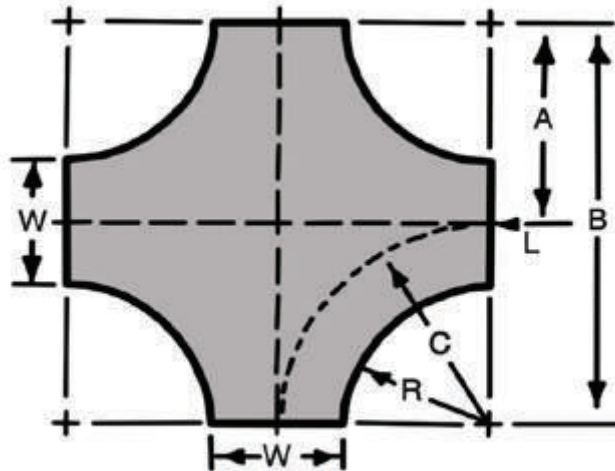
Horizontal Cross

(All Except I6 & I8)

Sample Cross Catalog No.
(Prefix + Basic)

ALBB- 24X-12

Husky Ladder—Flange-Out
24"W x 12"R Horizontal Cross



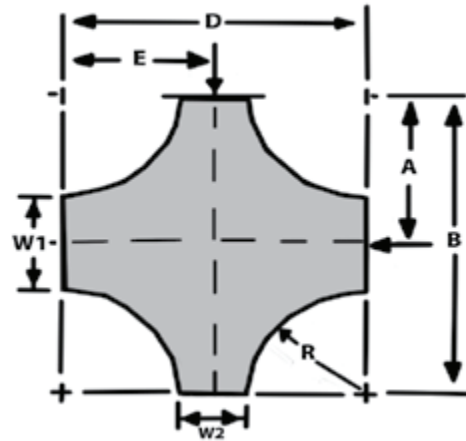
Note: Chart based on standard fittings without tangents. Contact factory for fittings with tangents.

Catalog Number				Fitting Dimensions			
Width	Radius	Prefix	Basic	A	B	C	L
36	36	See Tables on Pages 113-116	36X-36	54"	108"	54"	84-13/16"
	24		36X-24	42"	84"	42"	66"
	12		36X-12	30"	60"	30"	47-1/8"
30	36		30X-36	51"	102"	51"	80-1/8"
	24		30X-24	39"	78"	39"	61-1/4"
	12		30X-12	27"	54"	27"	42-7/16"
24	36		24X-36	48"	96"	48"	75-7/16"
	24		24X-24	36"	72"	36"	59-9/16"
	12		24X-12	24"	48"	24"	37-11/16"
18	36		18X-36	45"	90"	45"	70-11/16"
	24		18X-24	33"	66"	33"	51-13/16"
	12		18X-12	21"	42"	21"	33"
12	36		12X-36	42"	84"	42"	66"
	24		12X-24	30"	60"	30"	47-1/8"
	12		12X-12	18"	36"	18"	28-1/4"
9	36		9X-36	40-1/2"	81"	40-1/2"	63-5/8"
	24		9X-24	28-1/2"	57"	28-1/2"	44-3/4"
	12		9X-12	16-1/2"	33"	16-1/2"	25-7/8"
6	36		6X-36	39"	78"	39"	61-1/4"
	24		6X-24	27"	54"	27"	42-3/8"
	12		6X-12	15"	30"	15"	23-9/16"



Horizontal Reducing Cross

(All Except I6 & I8)



**Sample Reducing Cross Catalog No.
(Prefix + Basic)**

ALBB- 24X12-12

Husky Ladder—Flange-Out
24"W to 12" W x 12"R Horizontal
Reducing Cross

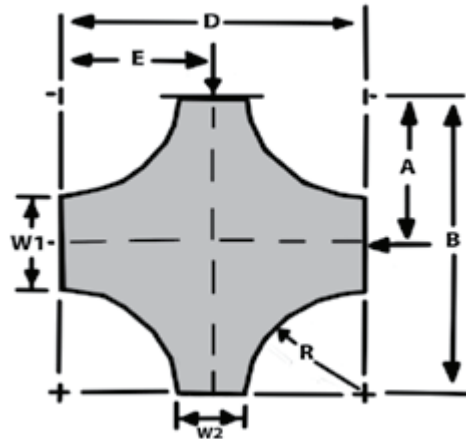
Note: Chart based on standard fittings without tangents. Contact factory for fittings with tangents.

Catalog Number					Fitting Dimensions			
Width 1	Width 2	Radius	Prefix	Basic	A	B	D	E
36	30	36	See Tables on Pages 113-116	36X30-36	54"	108"	102"	51"
		24		36X30-24	42"	84"	78"	39"
		12		36X30-12	30"	60"	54"	27"
36	24	36		36X24-36	54"	108"	96"	48"
		24		36X24-24	42"	84"	72"	36"
		12		36X24-12	30"	60"	48"	24"
36	18	36		36X18-36	54"	108"	90"	45"
		24		36X18-24	42"	84"	66"	33"
		12		36X18-12	30"	60"	42"	21"
36	12	36		36X12-36	54"	108"	84"	42"
		24		36X12-24	42"	84"	60"	30"
		12		36X12-12	30"	60"	36"	18"
36	9	36		36X9-36	54"	108"	81"	40-1/2"
		24		36X9-24	42"	84"	57"	28-1/2"
		12		36X9-12	30"	60"	33"	16-1/2"
36	6	36		36X6-36	54"	108"	78"	39"
		24		36X6-24	42"	84"	54"	27"
		12		36X6-12	30"	60"	30"	15"
30	24	36		30X24-36	51"	102"	96"	48"
		24		30X24-24	39"	78"	72"	36"
		12		30X24-12	27"	54"	48"	24"
30	18	36		30X18-36	51"	102"	90"	42"
		24		30X18-24	39"	78"	66"	30"
		12		30X18-12	27"	54"	42"	18"
30	12	36		30X12-36	51"	102"	84"	45"
		24		30X12-24	39"	78"	60"	33"
		12		30X12-12	27"	54"	36"	21"
30	9	36		30X9-36	51"	102"	81"	40-1/2"
		24		30X9-24	39"	78"	57"	28-1/2"
		12		30X9-12	27"	54"	33"	16-1/2"
30	6	36		30X6-36	51"	102"	78"	39"
		24		30X6-24	39"	78"	54"	27"
		12		30X6-12	27"	54"	30"	15"



Horizontal Reducing Cross

(All Except I6 & I8)



**Sample Reducing Cross Catalog No.
(Prefix + Basic)**

ALBB- 24X12-12

Husky Ladder—Flange-Out
24"W to 12" W x 12"R Horizontal
Reducing Cross

Note: Chart based on standard fittings without tangents. Contact factory for fittings with tangents.

10-FITTINGS

Catalog Number					Fitting Dimensions			
Width 1	Width 2	Radius	Prefix	Basic	A	B	D	E
24	18	36	See Tables on Pages 113-116	24X18-36	48"	96"	90"	45"
		24		24X18-24	36"	72"	66"	33"
		12		24X18-12	24"	48"	42"	21"
24	12	36		24X12-36	48"	96"	84"	42"
		24		24X12-24	36"	72"	60"	30"
		12		24X12-12	24"	48"	36"	18"
24	9	36		24X9-36	48"	96"	81"	40-1/2"
		24		24X9-24	36"	72"	57"	28-1/2"
		12		24X9-12	24"	48"	33"	16-1/2"
24	6	36		24X6-36	48"	96"	78"	39"
		24		24X6-24	36"	72"	54"	27"
		12		24X6-12	24"	48"	30"	15"
18	12	36		18X12-36	45"	90"	84"	42"
		24		18X12-24	33"	66"	60"	30"
		12		18X12-12	21"	42"	36"	18"
18	9	36		18X9-36	45"	90"	81"	40-1/2"
		24		18X9-24	33"	66"	57"	28-1/2"
		12		18X9-12	21"	42"	33"	16-1/2"
18	6	36		18X6-36	45"	90"	78"	39"
		24		18X6-24	33"	66"	54"	27"
		12		18X6-12	21"	42"	39"	15"
12	9	36		12X9-36	42"	84"	81"	40-1/2"
		24		12X9-24	30"	60"	57"	28-1/2"
		12		12X9-12	18"	36"	33"	16-1/2"
12	6	36		12X6-36	42"	84"	78"	39"
		24		12X6-24	30"	60"	54"	27"
		12		12X6-12	18"	36"	30"	15"
9	6	36		9X6-36	40-1/2"	81"	78"	39"
		24		9X6-24	28-1/2"	57"	54"	27"
		12		9X6-12	16-1/2"	33"	30"	15"

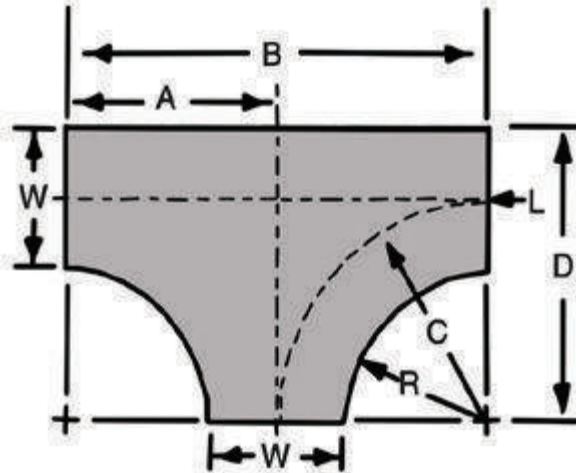
Horizontal Tee

(All Except I6 & I8)

Sample Tee Catalog No.
(Prefix + Basic)

SLHA- 24T-12

Husky Ladder—Flange-In
24"W x 12"R Horizontal Tee

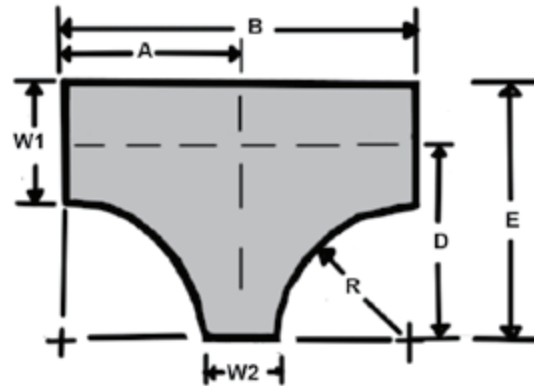


Note: Chart based on standard fittings without tangents. Contact factory for fittings with tangents.

Catalog Number				Fitting Dimensions				
Width	Radius	Prefix	Basic	A	B	C	D	L
36	36	See Tables on Pages 113-116	36T-36	54"	108"	54"	72"	84-13/16"
	24		36T-24	42"	84"	42"	68"	66"
	12		36T-12	30"	60"	30"	48"	47-1/8"
30	36		30T-36	51"	102"	51"	66"	80-1/8"
	24		30T-24	39"	78"	39"	54"	61-1/4"
	12		30T-12	27"	54"	27"	42"	42-7/16"
24	36		24T-36	48"	96"	48"	60"	75-7/16"
	24		24T-24	36"	72"	36"	48"	59-9/16"
	12		24T-12	24"	48"	24"	36"	37-11/16"
18	36		18T-36	45"	90"	45"	54"	70-11/16"
	24		18T-24	33"	66"	33"	42"	51-13/16"
	12		18T-12	21"	42"	21"	30"	33"
12	36		12T-36	42"	84"	42"	48"	66"
	24		12T-24	30"	60"	30"	36"	47-1/8"
	12		12T-12	18"	36"	18"	24"	28-1/4"
9	36		9T-36	40-1/2"	81"	40-1/2"	45"	63-5/8"
	24		9T-24	28-1/2"	57"	28-1/2"	33"	44-3/4"
	12		9T-12	16-1/2"	33"	16-1/2"	21"	25-15/16"
6	36		6T-36	39"	78"	39"	42"	61-1/4"
	24		6T-24	27"	54"	27"	30"	42-3/8"
	12		6T-12	15"	30"	15"	18"	23-9/16"

Horizontal Reducing Tee

(All Except I6 & I8)



Sample Reducing Tee Catalog No.
(Prefix + Basic)

SLHA- 24T12-12

Husky Ladder—Flange-In
24"W to 12" W x 12"R Horizontal
Reducing Tee

Note: Chart based on standard fittings without tangents. Contact factory for fittings with tangents.

10-FITTINGS

Catalog Number					Fitting Dimensions			
Width 1	Width 2	Radius	Prefix	Basic	A	B	D	E
36	30	36	See Tables on Pages 113-116	36T30-36	51"	102"	54"	72"
		24		36T30-24	39"	78"	42"	60"
		12		36T30-12	27"	54"	30"	48"
36	24	36		36T24-36	48"	96"	54"	72"
		24		36T24-24	36"	72"	42"	60"
		12		36T24-12	24"	48"	30"	48"
36	18	36		36T18-36	45"	90"	54"	72"
		24		36T18-24	33"	66"	42"	60"
		12		36T18-12	21"	42"	30"	48"
36	12	36		36T12-36	42"	84"	54"	72"
		24		36T12-24	30"	60"	42"	60"
		12		36T12-12	18"	36"	30"	48"
36	9	36		36T9-36	40-1/2"	81"	54"	72"
		24		36T9-24	28-1/2"	57"	42"	60"
		12		36T9-12	16-1/2"	33"	30"	48"
36	6	36		36T6-36	39"	78"	54"	72"
		24		36T6-24	27"	54"	42"	60"
		12		36T6-12	15"	30"	30"	48"
30	24	36		30T24-36	48"	96"	51"	66"
		24		30T24-24	36"	72"	39"	54"
		12		30T24-12	24"	48"	27"	42"
30	18	36		30T18-36	45"	90"	51"	66"
		24		30T18-24	33"	66"	39"	54"
		12		30T18-12	21"	42"	27"	42"
30	12	36		30T12-36	42"	84"	51"	66"
		24		30T12-24	30"	60"	39"	54"
		12		30T12-12	18"	36"	27"	42"
30	9	36		30T9-36	40-1/2"	81"	51"	66"
		24		30T9-24	28-1/2"	57"	39"	54"
		12		30T9-12	16-1/2"	33"	27"	42"
30	6	36		30T6-36	39"	78"	51"	66"
		24		30T6-24	27"	54"	39"	54"
		12		30T6-12	15"	30"	27"	42"



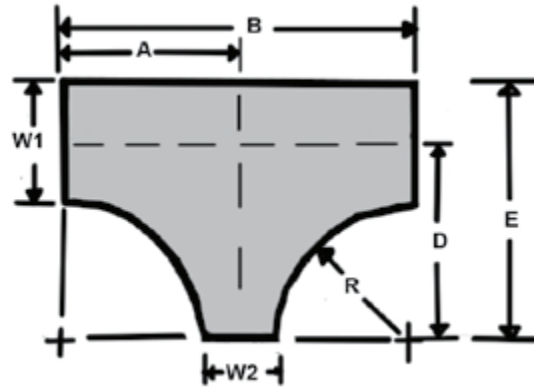
Horizontal Reducing Tee

(All Except I6 & I8)

Sample Reducing Tee Catalog No.
(Prefix + Basic)

SLHA- 24T12-12

Husky Ladder—Flange-In
24"W to 12" W x 12"R Horizontal
Reducing Tee



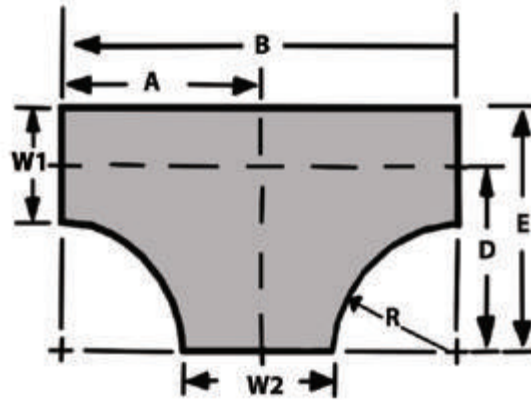
Note: Chart based on standard fittings without tangents. Contact factory for fittings with tangents.

Catalog Number					Fitting Dimensions			
Width 1	Width 2	Radius	Prefix	Basic	A	B	D	E
24	18	36	See Tables on Pages 113-116	24T18-36	45"	90"	48"	60"
		24		24T18-24	33"	66"	36"	48"
		12		24T18-12	21"	42"	24"	36"
24	12	36		24T12-36	42"	84"	48"	60"
		24		24T12-24	30"	60"	36"	48"
		12		24T12-12	18"	36"	24"	36"
24	9	36		24T9-36	40-1/2"	81"	48"	60"
		24		24T9-24	28-1/2"	57"	36"	48"
		12		24T9-12	16-1/2"	33"	24"	36"
24	6	36		24T6-36	39"	78"	48"	60"
		24		24T6-24	27"	54"	36"	48"
		12		24T6-12	15"	30"	24"	36"
18	12	36		18T12-36	42"	84"	45"	54"
		24		18T12-24	30"	60"	33"	42"
		12		18T12-12	18"	36"	21"	30"
18	9	36		18T9-36	40-1/2"	81"	45"	54"
		24		18T9-24	28-1/2"	57"	33"	42"
		12		18T9-12	16-1/2"	33"	21"	30"
18	6	36		18T6-36	39"	78"	45"	54"
		24		18T6-24	27"	54"	33"	42"
		12		18T6-12	15"	30"	21"	30"
12	9	36		12T9-36	40-1/2"	81"	42"	48"
		24		12T9-24	28-1/2"	57"	30"	36"
		12		12T9-12	16-1/2"	33"	18"	24"
12	6	36		12T6-36	39"	78"	42"	48"
		24		12T6-24	27"	54"	30"	36"
		12		12T6-12	15"	30"	18"	24"
9	6	36		9T6-36	39"	78"	40-1/2"	45"
		24		9T6-24	27"	54"	28-1/2"	33"
		12		9T6-12	15"	30"	16-1/2"	21"



Horizontal Enlarging Tee

(All Except I6 & I8)



**Sample Enlarging Tee Catalog No.
(Prefix + Basic)**

SLHA- 12T24-12

Husky Ladder—Flange-In
12"W to 24" W x 12"R Horizontal
Enlarging Tee

Note: Chart based on standard fittings without tangents. Contact factory for fittings with tangents.

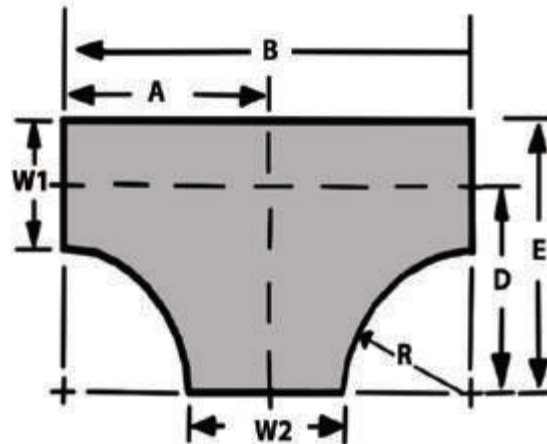
10-FITTINGS

Catalog Number					Fitting Dimensions			
Width 1	Width 2	Radius	Prefix	Basic	A	B	D	E
6	36	36	See Tables on Pages 113-116	6T36-36	54"	108"	39"	42"
		24		6T36-24	42"	84"	27"	30"
		12		6T36-12	30"	60"	15"	18"
6	30	36		6T30-36	51"	102"	39"	42"
		24		6T30-24	39"	78"	27"	30"
		12		6T30-12	27"	54"	15"	18"
6	24	36		6T24-36	48"	96"	39"	42"
		24		6T24-24	36"	72"	27"	30"
		12		6T24-12	24"	48"	15"	18"
6	18	36		6T18-36	45"	90"	39"	42"
		24		6T18-24	33"	66"	27"	30"
		12		6T18-12	21"	42"	15"	18"
6	12	36		6T12-36	42"	84"	39"	42"
		24		6T12-24	30"	60"	27"	30"
		12		6T12-12	18"	36"	15"	18"
6	9	36		6T9-36	40-1/2"	81"	39"	42"
		24		6T9-24	28-1/2"	57"	27"	30"
		12		6T9-12	16-1/2"	33"	15"	18"
9	36	36		9T36-36	54"	108"	40-1/2"	45"
		24		9T36-24	42"	84"	28-1/2"	33"
		12		9T36-12	30"	60"	16-1/2"	21"
9	30	36		9T30-36	51"	102"	40-1/2"	45"
		24		9T30-24	39"	78"	28-1/2"	33"
		12		9T30-12	27"	54"	16-1/2"	21"
9	24	36		9T24-36	48"	96"	40-1/2"	45"
		24		9T24-24	36"	72"	28-1/2"	33"
		12		9T24-12	24"	48"	16-1/2"	21"
9	18	36		9T18-36	45"	90"	40-1/2"	45"
		24		9T18-24	33"	66"	28-1/2"	33"
		12		9T18-12	21"	42"	16-1/2"	21"
9	12	36		9T12-36	42"	84"	40-1/2"	45"
		24		9T12-24	30"	60"	28-1/2"	33"
		12		9T12-12	18"	36"	16-1/2"	21"



Horizontal Enlarging Tee

(All Except I6 & I8)



Sample Enlarging Tee Catalog No.
(Prefix + Basic)

SLHA- 12T24-12

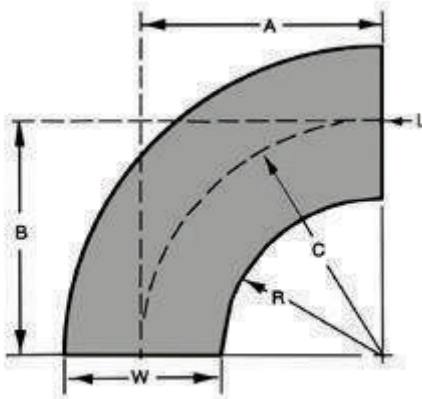
Husky Ladder—Flange-In
12"W to 24" W x 12"R Horizontal En-
larging Tee

Note: Chart based on standard fittings without tangents. Contact factory for fittings with tangents.

Catalog Number					Fitting Dimensions			
Width 1	Width 2	Radius	Prefix	Basic	A	B	D	E
12	36	36	See Tables on Pages 113-116	12T36-36	54"	108"	42"	48"
		24		12T36-24	42"	84"	30"	36"
		12		12T36-12	30"	60"	18"	24"
12	30	36		12T30-36	51"	102"	42"	48"
		24		12T30-24	39"	78"	30"	36"
		12		12T30-12	27"	54"	18"	24"
12	24	36		12T24-36	48"	96"	42"	48"
		24		12T24-24	36"	72"	30"	36"
		12		12T24-12	24"	48"	18"	24"
12	18	36		12T18-36	45"	90"	42"	48"
		24		12T18-24	33"	66"	30"	36"
		12		12T18-12	21"	42"	18"	24"
18	36	36		18T36-36	54"	108"	45"	54"
		24		18T36-24	42"	84"	33"	42"
		12		18T36-12	30"	60"	21"	30"
18	30	36		18T30-36	51"	102"	45"	54"
		24		18T30-24	39"	78"	33"	42"
		12		18T30-12	27"	54"	21"	30"
18	24	36		18T24-36	48"	96"	45"	54"
		24		18T24-24	36"	72"	33"	42"
		12		18T24-12	24"	48"	21"	30"
24	36	36		24T36-36	54"	108"	48"	60"
		24		24T36-24	42"	84"	36"	48"
		12		24T36-12	30"	60"	24"	36"
24	30	36		24T30-36	51"	102"	48"	60"
		24		24T30-24	39"	78"	36"	48"
		12		24T30-12	27"	54"	24"	36"
30	36	36		30T36-36	54"	108"	51"	60"
		24		30T36-24	42"	84"	39"	48"
		12		30T36-12	30"	60"	27"	36"

90° Horizontal Bend

(All except I6 & I8)



Sample Catalog No.
(Prefix + Basic)

ALYA2- 36H90-24

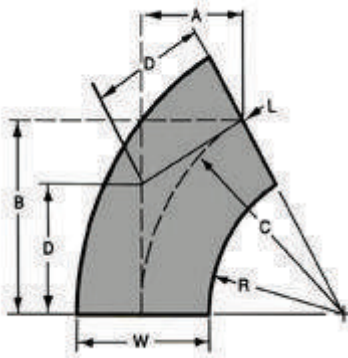
Husky Ladder—Flange-In
36"W x 24"R
90° Horizontal Bend

Catalog Number				Fitting Dimensions			
Width	Radius	Prefix	Basic	A	B	C	L
36	36	See Tables on Pages 113-116	36H90-36	54"	54"	54"	84-13/16"
	24		36H90-24	42"	42"	42"	66"
	12		36H90-12	30"	30"	30"	47-1/8"
30	36		30H90-36	51"	51"	51"	80-1/8"
	24		30H90-24	39"	39"	39"	61-1/4"
	12		30H90-12	27"	27"	27"	42-7/16"
24	36		24H90-36	48"	48"	48"	75-7/16"
	24		24H90-24	36"	36"	36"	56-9/16"
	12		24H90-12	24"	24"	24"	37-11/16"
18	36		18H90-36	45"	45"	45"	70-11/16"
	24		18H90-24	33"	33"	33"	51-13/16"
	12		18H90-12	21"	21"	21"	33"
12	36		12H90-36	42"	42"	42"	66"
	24		12H90-24	30"	30"	30"	47-1/8"
	12		12H90-12	18"	18"	18"	28-1/4"
9	36		9H90-36	40-1/2"	40-1/2"	40-1/2"	63-5/8"
	24		9H90-24	28-1/2"	28-1/2"	28-1/2"	44-3/4"
	12		9H90-12	16-1/2"	16-1/2"	16-1/2"	25-7/8"
6	36		6H90-36	39"	39"	39"	61-1/4"
	24		6H90-24	27"	27"	27"	42-3/4"
	12		6H90-12	15"	15"	15"	23-9/16"

Note: Chart based on standard fittings without tangents. Contact factory for fittings with tangents.

60° Horizontal Bend

(All except I6 & I8)



Sample Catalog No.
(Prefix + Basic)

ALE- 36H60-24

Husky Ladder—Flange-Out
36"W x 24"R
60° Horizontal Bend

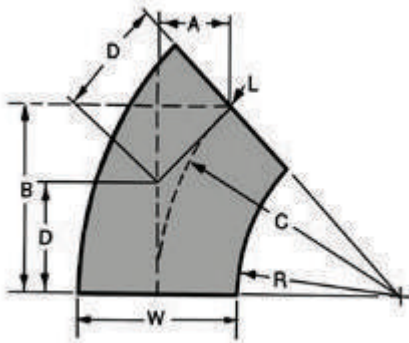
Catalog Number				Fitting Dimensions				
Width	Radius	Prefix	Basic	A	B	C	D	L
36	36	See Tables on Pages 113-116	36H60-36	27"	46-3/4"	54"	31-3/16"	56-9/16"
	24		36H60-24	21"	36-3/8"	42"	24-1/4"	44"
	12		36H60-12	15"	26"	30"	17-5/16"	31-7/16"
30	36		30H60-36	25-1/2"	44-3/16"	51"	29-7/16"	53-3/8"
	24		30H60-24	19-1/2"	33-3/4"	39"	22-1/2"	40-13/16"
	12		30H60-12	13-1/2"	23-3/8"	27"	15-9/16"	28-1/4"
24	36		24H60-36	24"	41-9/16"	48"	27-11/16"	50-1/4"
	24		24H60-24	18"	31-3/16"	36"	20-13/16"	37-11/16"
	12		24H60-12	12"	20-3/4"	24"	13-7/8"	25-1/8"
18	36		18H60-36	22-1/2"	39"	45"	26"	47-1/8"
	24		18H60-24	16-1/2"	28-9/16"	33"	19-1/16"	34-9/16"
	12		18H60-12	10-1/2"	18-3/16"	21"	12-1/8"	22"
12	36		12H60-36	21"	36-3/8"	42"	24-1/4"	44"
	24		12H60-24	15"	26"	30"	17-5/16"	31-7/16"
	12		12H60-12	9"	15-9/16"	18"	10-3/8"	18-7/8"
9	36		9H60-36	20-1/4"	36-1/16"	40-1/2"	23-3/8"	42-3/8"
	24		9H60-24	14-1/4"	24-11/16"	28-1/2"	16-7/16"	29-13/16"
	12		9H60-12	8-1/4"	14-5/16"	16-1/2"	9-1/2"	17-1/4"
6	36		6H60-36	19-1/2"	33-3/4"	39"	22-1/2"	40-13/16"
	24		6H60-24	13-1/2"	23-3/8"	27"	15-9/16"	28-1/4"
	12		6H60-12	7-1/2"	13"	15"	8-11/16"	15-11/16"

Note: Chart based on standard fittings without tangents. Contact factory for fittings with tangents.



45° Horizontal Bend

(All except I6 & I8)



Sample Catalog No.
(Prefix + Basic)

SLM61- 30H45-36

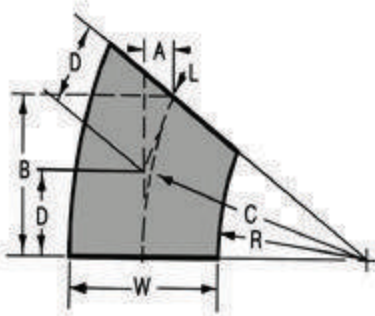
Husky Ladder—Flange-In
30"W x 36"R
45° Horizontal Bend

Note: Chart based on standard fittings without tangents. Contact factory for fittings with tangents.

Catalog Number				Fitting Dimensions				
Width	Radius	Prefix	Basic	A	B	C	D	L
36	36	See Tables on Pages 113-116	36H45-36	15-13/16"	38-3/16"	54"	20-11/16"	42-7/16"
	24		36H45-24	12-5/16"	29-11/16"	42"	17-3/8"	33"
	12		36H45-12	8-7/8"	21-3/16"	30"	12-7/16"	23-9/16"
30	36		30H45-36	14-15/16"	36-1/16"	51"	21-1/8"	40-1/16"
	24		30H45-24	11-7/16"	27-5/8"	39"	16-3/16"	30-5/8"
	12		30H45-12	7-7/8"	19-1/8"	27"	11-3/16"	21-3/16"
24	36		24H45-36	14-1/16"	33-15/16"	48"	19-7/8"	37-11/16"
	24		24H45-24	10-9/16"	25-7/16"	36"	14-15/16"	28-1/4"
	12		24H45-12	7"	17"	24"	9-15/16"	18-7/8"
18	36		18H45-36	13-3/16"	31-13/16"	45"	18-5/8"	35-5/16"
	24		18H45-24	9-11/16"	23-5/16"	33"	13-11/16"	25-15/16"
	12		18H45-12	6-1/8"	14-7/8"	21"	8-11/16"	16-1/2"
12	36		12H45-36	12-5/16"	29-11/16"	42"	17-3/8"	33"
	24		12H45-24	8-13/16"	21-3/16"	30"	12-7/16"	23-9/16"
	12		12H45-12	5-1/4"	12-3/4"	18"	7-7/16"	14-1/8"
9	36		9H45-36	11-7/8"	28-5/8"	40-1/2"	16-3/4"	31-13/16"
	24		9H45-24	8-3/8"	20-11/16"	28-1/2"	11-13/16"	22-3/8"
	12		9H45-12	4-13/16"	11-11/16"	16-1/2"	6-13/16"	12-15/16"
6	36		6H45-36	11-7/16"	27-9/16"	39"	16-1/8"	30-5/8"
	24		6H45-24	7-15/16"	19-1/16"	27"	11-3/16"	21-3/16"
	12		6H45-12	4-3/8"	10-5/8"	15"	6-3/16"	11-3/4"

30° Horizontal Bend

(All except I6 & I8)



Sample Catalog No.
(Prefix + Basic)

ALBB- 18H30-24

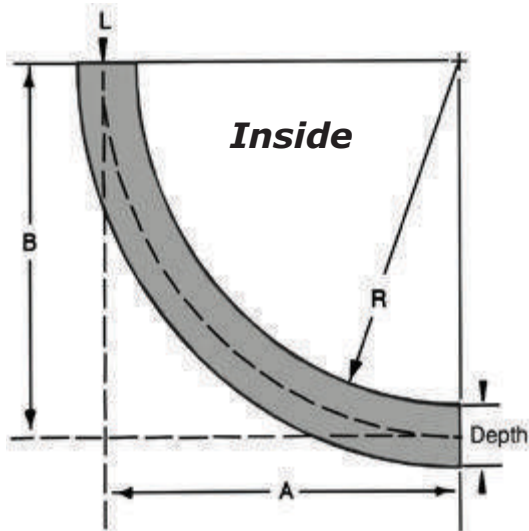
Husky Ladder—Flange-Out
18"W x 24"R
30° Horizontal Bend

Note: Chart based on standard fittings without tangents. Contact factory for fittings with tangents.

Catalog Number				Fitting Dimensions				
Width	Radius	Prefix	Basic	A	B	C	D	L
36	36	See Tables on Pages 113-116	36H30-36	7-1/4"	27"	54"	14-1/2"	28-1/4"
	24		36H30-24	5-5/8"	21"	42"	11-1/4"	22"
	12		36H30-12	4"	15"	30"	8"	15-11/16"
30	36		30H30-36	6-13/16"	25-1/2"	51"	13-11/16"	26-3/4"
	24		30H30-24	5-1/4"	19-1/2"	39"	10-7/16"	20-7/16"
	12		30H30-12	3-5/8"	13-1/2"	27"	7-1/4"	14-1/8"
24	36		24H30-36	6-7/16"	24"	48"	12-7/8"	25-1/8"
	24		24H30-24	4-13/16"	18"	36"	9-5/8"	18-7/8"
	12		24H30-12	3-3/16"	12"	24"	6-7/16"	12-9/16"
18	36		18H30-36	6"	22-1/2"	45"	12-1/16"	23-9/16"
	24		18H30-24	4-7/16"	16-1/2"	33"	8-13/16"	17-1/4"
	12		18H30-12	2-13/16"	10-1/2"	21"	5-5/8"	11"
12	36		12H30-36	5-5/8"	21"	42"	11-1/4"	22"
	24		12H30-24	4"	15"	30"	8-1/16"	15-11/16"
	12		12H30-12	2-7/16"	9"	18"	4-13/16"	9-7/16"
9	36		9H30-36	5-7/16"	20-1/4"	40-1/2"	10-7/8"	21-1/4"
	24		9H30-24	3-13/16"	14-1/4"	28-1/2"	7-5/8"	14-7/8"
	12		9H30-12	2-3/16"	8-1/4"	16-1/2"	4-7/16"	8-5/8"
6	36		6H30-36	5-1/4"	19-1/2"	39"	10-7/16"	20-7/8"
	24		6H30-24	3-5/8"	13-1/2"	27"	7-1/4"	14-1/8"
	12		6H30-12	2"	7-1/2"	15"	4"	7-7/8"

90° Vertical Bend

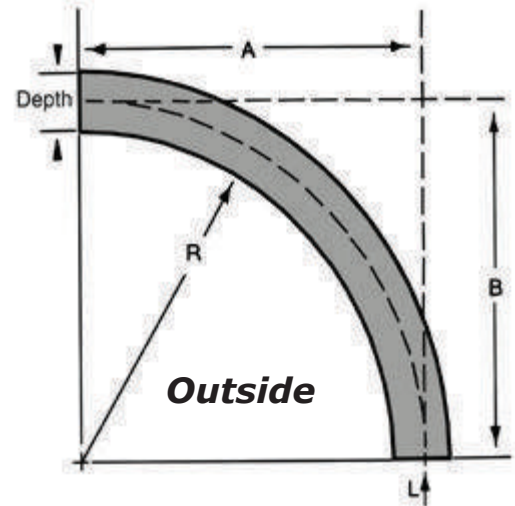
(All except I6 & I8)



Sample Catalog No.
(Prefix + Basic)

PLHA- 9VI90-12

Husky Ladder—Flange-In
9"W x 12"R
90° Vertical Inside Bend



Note: Chart based on standard fittings without tangents. Contact factory for fittings with tangents.

10-FITTINGS

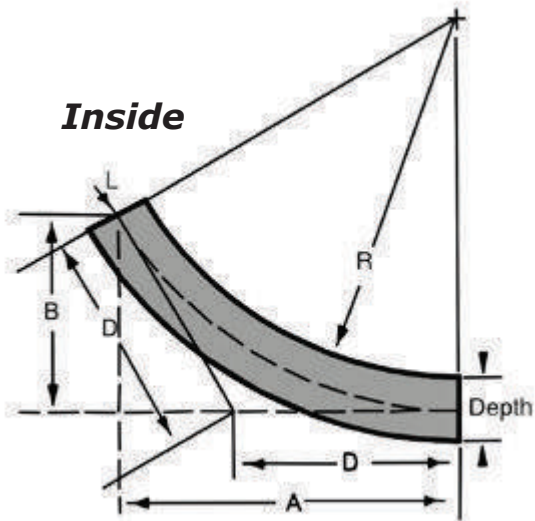
Catalog Number				
Width	Radius	Prefix	Basic VI90	Basic VO90
36	36	See Tables on Pages 113-116	36VI90-36	36VO90-36
	24		36VI90-24	36VO90-24
	12		36VI90-12	36VO90-12
30	36		30VI90-36	30VO90-36
	24		30VI90-24	30VO90-24
	12		30VI90-12	30VO90-12
24	36		24VI90-36	24VO90-36
	24		24VI90-24	24VO90-24
	12		24VI90-12	24VO90-12
18	36		18VI90-36	18VO90-36
	24		18VI90-24	18VO90-24
	12		18VI90-12	18VO90-12
12	36		12VI90-36	12VO90-36
	24		12VI90-24	12VO90-24
	12		12VI90-12	12VO90-12
9	36		9VI90-36	9VO90-36
	24		9VI90-24	9VO90-24
	12		9VI90-12	9VO90-12
6	36		6VI90-36	6VO90-36
	24		6VI90-24	6VO90-24
	12		6VI90-12	6VO90-12

Fitting Dimensions				
Radius	R	A	B	L
For All 3-3/8" High Tray				
36"	34-1/2"	36-3/16"	36-3/16"	56-13/16"
24"	22-1/2"	24-3/16"	24-3/16"	38"
12"	11-7/8"	13-9/16"	13-9/16"	21-5/16"
For All 4" High Tray				
36"	34-1/2"	36-1/2"	36-1/2"	57-5/16"
24"	22-1/2"	24-1/2"	24-1/2"	38-1/2"
12"	11-7/8"	13-7/8"	13-7/8"	21-3/4"
For All 4-1/2" High Tray				
36"	34-1/2"	36-3/4"	36-3/4"	57-3/4"
24"	22-1/2"	24-3/4"	24-3/4"	38-7/8"
12"	11-7/8"	14-1/8"	14-1/8"	22-3/16"
For All 6" High Tray				
36"	34-1/2"	37-1/2"	37-1/2"	58-15/16"
24"	22-1/2"	25-1/2"	25-1/2"	40-1/16"
12"	11-7/8"	14-7/8"	14-7/8"	23-3/8"
For All 6-1/4" High Tray				
36"	34-1/2"	37-5/8"	37-5/8"	59-1/8"
24"	22-1/2"	25-5/8"	25-5/8"	40-1/4"
12"	11-7/8"	15"	15"	23-9/16"
For All 7" High Tray				
36"	34-1/2"	38"	38"	59-11/16"
24"	22-1/2"	26"	26"	40-7/8"
12"	11-7/8"	15-3/8"	15-3/8"	24-5/32"
For All 8" High Tray				
36"	34-5/8"	38-5/8"	38-5/8"	60-11/16"
24"	22-1/2"	26-1/2"	26-1/2"	41-5/8"
12"	11-7/8"	15-7/8"	15-7/8"	24-15/16"
For All 10" High Tray				
36"	34-5/8"	39-5/8"	39-5/8"	62-1/4"
24"	22-1/2"	27-1/2"	27-1/2"	43-3/16"
12"	11-7/8"	16-7/8"	16-7/8"	26-1/2"



60° Vertical Bend

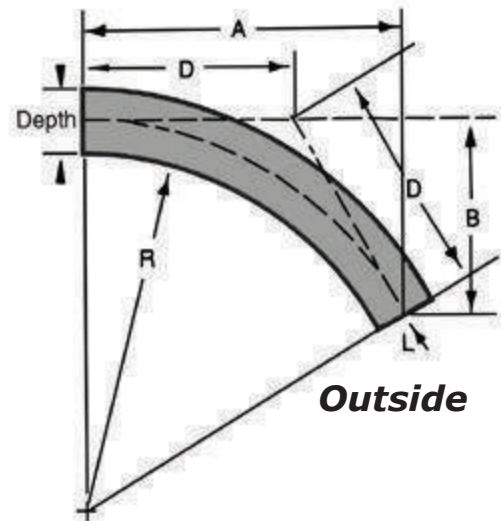
(All except I6 & I8)



Sample Catalog No.
(Prefix + Basic)

ALMC- 36VI60-36

Husky Ladder—Flange-In
36"W x 36"R
60° Vertical Inside Bend



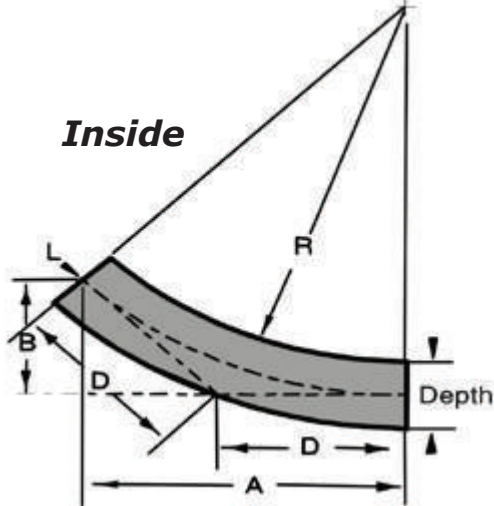
Note: Chart based on standard fittings without tangents. Contact factory for fittings with tangents.

Catalog Number				
Width	Radius	Prefix	Basic VI90	Basic VO90
36	36	See Tables on Pages 113-116	36VI60-36	36VO60-36
	24		36VI60-24	36VO60-24
	12		36VI60-12	36VO60-12
30	36		30VI60-36	30VO60-36
	24		30VI60-24	30VO60-24
	12		30VI60-12	30VO60-12
24	36		24VI60-36	24VO60-36
	24		24VI60-24	24VO60-24
	12		24VI60-12	24VO60-12
18	36		18VI60-36	18VO60-36
	24		18VI60-24	18VO60-24
	12		18VI60-12	18VO60-12
12	36		12VI60-36	12VO60-36
	24		12VI60-24	12VO60-24
	12		12VI60-12	12VO60-12
9	36		9VI60-36	9VO60-36
	24		9VI60-24	9VO60-24
	12		9VI60-12	9VO60-12
6	36		6VI60-36	6VO60-36
	24		6VI60-24	6VO60-24
	12		6VI60-12	6VO60-12

Fitting Dimensions					
Radius	R	A	B	D	L
For All 3-3/8" High Tray					
36"	34-1/2"	31-5/16"	18-1/16"	37-7/8"	20-7/8"
24"	22-1/2"	20-15/16"	12-1/16"	25-5/16"	13-15/16"
12"	11-7/8"	11-3/4"	6-3/4"	14-3/16"	7-13/16"
For All 4" High Tray					
36"	34-1/2"	31-5/8"	18-1/4"	21-1/16"	38-1/4"
24"	22-1/2"	21-3/16"	12-1/4"	14-1/8"	25-11/16"
12"	11-7/8"	12"	6-15/16"	8"	14-1/2"
For All 4-1/2" High Tray					
36"	34-1/2"	31-13/16"	18-3/8"	21-3/16"	38-1/2"
24"	22-1/2"	21-7/16"	12-3/8"	14-5/16"	25-15/16"
12"	11-7/8"	12-1/4"	7-1/16"	8-1/8"	14-13/16"
For All 6" High Tray					
36"	34-1/2"	32-1/2"	18-3/4"	21-5/8"	39-1/4"
24"	22-1/2"	22-1/16"	12-3/4"	14-3/4"	26-11/16"
12"	11-7/8"	12-7/8"	7-7/16"	8-9/16"	15-9/16"
For All 6-1/4" High Tray					
36"	34-1/2"	32-9/16"	18-13/16"	21-3/4"	39-3/8"
24"	22-1/2"	22-3/16"	12-13/16"	14-13/16"	26-13/16"
12"	11-7/8"	13"	7-1/2"	8-11/16"	15-11/16"
For All 7" High Tray					
36"	34-1/2"	32-15/16"	19"	21-15/16"	39-13/16"
24"	22-1/2"	22-1/2"	13"	15"	27-1/4"
12"	11-7/8"	13-5/16"	7-11/16"	7-7/8"	16-1/8"
For All 8" High Tray					
36"	34-5/8"	33-7/16"	19-5/16"	22-5/16"	40-7/16"
24"	22-1/2"	22-15/16"	13-1/16"	15-5/16"	27-3/4"
12"	11-7/8"	13-3/4"	7-15/16"	9-5/32"	16-5/8"
For All 10" High Tray					
36"	34-5/8"	34-5/16"	19-13/16"	22-7/8"	41-1/2"
24"	22-1/2"	23-13/16"	13-3/4"	15-7/8"	28-13/16"
12"	11-7/8"	15-5/8"	8-7/16"	9-3/4"	17-11/16"

45° Vertical Bend

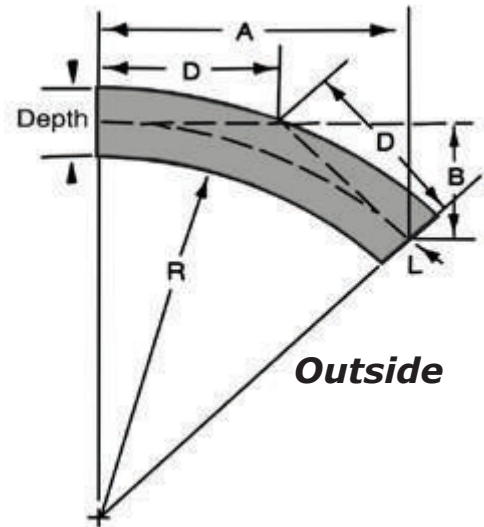
(All except I6 & I8)



Sample Catalog No.
(Prefix + Basic)

PLHA- 6VI45-24

Husky Ladder—Flange-In
6"W x 24"R
45° Vertical Inside Bend



Note: Chart based on standard fittings without tangents. Contact factory for fittings with tangents.

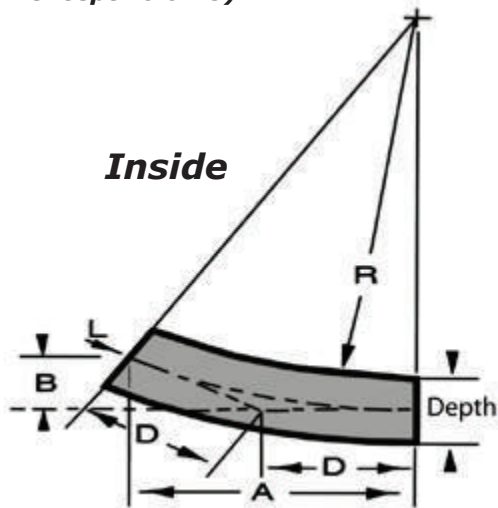
10-FITTINGS

Catalog Number				
Width	Radius	Prefix	Basic VI90	Basic VO90
36	36	See Tables on Pages 113-116	36VI45-36	36VO45-36
	24		36VI45-24	36VO45-24
	12		36VI45-12	36VO45-12
30	36		30VI45-36	30VO45-36
	24		30VI45-24	30VO45-24
	12		30VI45-12	30VO45-12
24	36		24VI45-36	24VO45-36
	24		24VI45-24	24VO45-24
	12		24VI45-12	24VO45-12
18	36		18VI45-36	18VO45-36
	24		18VI45-24	18VO45-24
	12		18VI45-12	18VO45-12
12	36		12VI45-36	12VO45-36
	24		12VI45-24	12VO45-24
	12		12VI45-12	12VO45-12
9	36		9VI45-36	9VO45-36
	24		9VI45-24	9VO45-24
	12		9VI45-12	9VO45-12
6	36		6VI45-36	6VO45-36
	24		6VI45-24	6VO45-24
	12		6VI45-12	6VO45-12

Fitting Dimensions					
Radius	R	A	B	D	L
For All 3-3/8" High Tray					
36"	34-1/2"	25-9/16"	10-5/8"	28-7/16"	15"
24"	22-1/2"	17"	7-3/16"	19"	10"
12"	11-7/8"	9-9/16"	4"	10-5/8"	5-5/8"
For All 4" High Tray					
36"	34-1/2"	25-3/16"	10-11/16"	15-1/8"	28-11/16"
24"	22-1/2"	17-5/16"	7-3/16"	10-1/8"	19-1/4"
12"	11-7/8"	9-13/16"	4-1/16"	5-3/4"	10-7/8"
For All 4-1/2" High Tray					
36"	34-1/2"	26"	10-3/4"	15-1/4"	28-7/8"
24"	22-1/2"	17-1/2"	7-1/4"	10-1/4"	19-7/16"
12"	11-7/8"	10"	4-1/8"	5-7/8"	11-1/8"
For All 6" High Tray					
36"	34-1/2"	26-1/2"	11"	15-9/16"	29-7/16"
24"	22-1/2"	18"	7-1/2"	10-9/16"	20"
12"	11-7/8"	10-1/2"	4-3/8"	6-3/16"	11-11/16"
For All 6-1/4" High Tray					
36"	34-1/2"	26-5/8"	11"	15-9/16"	29-9/16"
24"	22-1/2"	18-1/8"	7-1/2"	10-5/8"	20-1/8"
12"	11-7/8"	10-5/8"	4-3/8"	6-3/16"	11-3/4"
For All 7" High Tray					
36"	34-1/2"	26-7/8"	11-1/8"	15-3/4"	29-13/16"
24"	22-1/2"	18-3/8"	7-5/8"	10-3/4"	20-7/16"
12"	11-7/8"	10-7/8"	4-1/2"	6-3/8"	12-1/16"
For All 8" High Tray					
36"	34-1/2"	27-5/16"	11-5/16"	16"	30-5/16"
24"	22-1/2"	18-3/4"	7-3/4"	10-31/32"	20-13/16"
12"	11-7/8"	11-7/32"	4-21/32"	6-9/16"	12-15/32"
For All 10" High Tray					
36"	34-1/2"	28-1/32"	11-19/32"	16-13/32"	31-1/8"
24"	22-1/2"	19-7/16"	8-1/16"	11-13/32"	21-19/32"
12"	11-7/8"	11-15/16"	4-15/16"	7"	13-1/4"

30° Vertical Bend

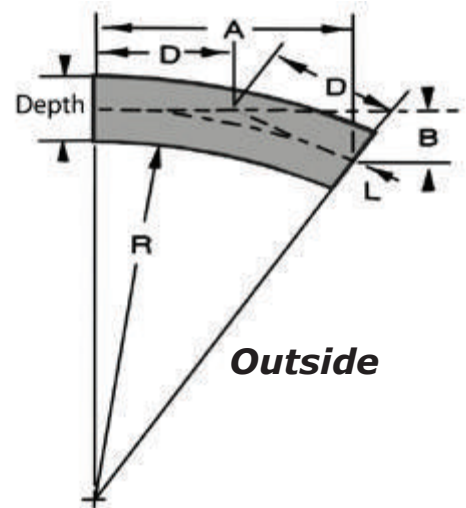
(All except I6 & I8)



Sample Catalog No.
(Prefix + Basic)

ALBB- 24VI30-24

Husky Ladder—Flange-Out
24"W x 24"R
30° Vertical Inside Bend



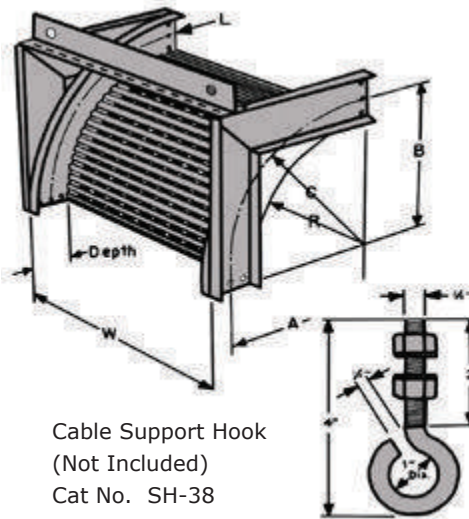
Note: Chart based on standard fittings without tangents. Contact factory for fittings with tangents.

Catalog Number				
Width	Radius	Prefix	Basic VI90	Basic VO90
36	36	See Tables on Pages 113-116	36VI30-36	36VO30-36
	24		36VI30-24	36VO30-24
	12		36VI30-12	36VO30-12
30	36		30VI30-36	30VO30-36
	24		30VI30-24	30VO30-24
	12		30VI30-12	30VO30-12
24	36		24VI30-36	24VO30-36
	24		24VI30-24	24VO30-24
	12		24VI30-12	24VO30-12
18	36		18VI30-36	18VO30-36
	24		18VI30-24	18VO30-24
	12		18VI30-12	18VO30-12
12	36		12VI30-36	12VO30-36
	24		12VI30-24	12VO30-24
	12		12VI30-12	12VO30-12
9	36		9VI30-36	9VO30-36
	24		9VI30-24	9VO30-24
	12		9VI30-12	9VO30-12
6	36		6VI30-36	6VO30-36
	24		6VI30-24	6VO30-24
	12		6VI30-12	6VO30-12

Fitting Dimensions					
Radius	R	A	B	D	L
For All 3-3/8" High Tray					
36"	34-1/2"	18-1/16"	4-7/8"	18-15/16"	9-11/16"
24"	22-1/2"	12-1/16"	3-1/4"	12-11/16"	6-1/2"
12"	11-7/8"	6-3/4"	1-13/16"	7-1/8"	3-5/8"
For All 4" High Tray					
36"	34-1/2"	18-1/4"	4-7/8"	9-3/4"	19-1/8"
24"	22-1/2"	12-1/4"	3-15/16"	6-9/16"	12-13/16"
12"	11-7/8"	6-15/16"	1-7/8"	3-11/16"	7-1/4"
For All 4-1/2" High Tray					
36"	34-1/2"	18-3/8"	4-15/16"	9-7/8"	19-1/4"
24"	22-1/2"	12-3/8"	3-5/16"	6-5/8"	12-15/16"
12"	11-7/8"	7-1/16"	1-7/8"	3-13/16"	7-3/8"
For All 6" High Tray					
36"	34-1/2"	18-3/4"	5"	10-1/16"	19-5/8"
24"	22-1/2"	12-3/4"	3-7/16"	6-13/16"	13-5/16"
12"	11-7/8"	7-7/16"	2"	4"	7-3/4"
For All 6-1/4" High Tray					
36"	34-1/2"	18-13/16"	5-1/16"	10-1/16"	19-11/16"
24"	22-1/2"	12-13/16"	3-7/16"	6-7/8"	13-7/16"
12"	11-7/8"	7-1/2"	2"	4"	7-13/16"
For All 7" High Tray					
36"	34-1/2"	19"	5-1/8"	10-3/16"	19-7/8"
24"	22-1/2"	13"	3-1/2"	7"	13-5/8"
12"	11-7/8"	7-11/16"	2-1/16"	4-1/8"	8-1/16"
For All 8" High Tray					
36"	34-1/2"	19-5/16"	5-3/16"	10-11/32"	20-1/4"
24"	22-1/2"	13-1/4"	3-9/16"	7-3/32"	13-7/8"
12"	11-7/8"	7-15/16"	2-1/8"	4-1/4"	8-5/16"
For All 10" High Tray					
36"	34-1/2"	19-13/16"	5-5/16"	10-5/8"	20-3/4"
24"	22-1/2"	13-3/4"	3-11/16"	7-3/8"	14-3/8"
12"	11-7/8"	8-7/16"	2-1/4"	4-17/32"	8-13/16"

Vertical Cable Supports

(All except I6 & I8)



Cable Support Hook
(Not Included)
Cat No. SH-38

Sample Catalog No.
(Prefix + Basic)

ALMC- 36VS-36

Husky Ladder Flange-In
36"W x 36"R
Vertical Cable Supports

Note: Chart based on standard fittings without tangents. Contact factory for fittings with tangents.

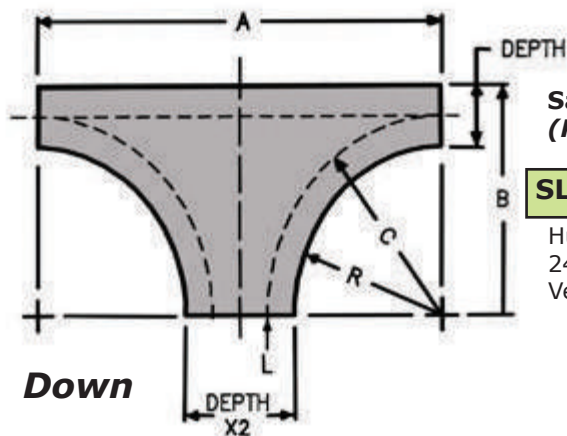
10-FITTINGS

Catalog Number			
Width	Radius	Prefix	Basic
36	36	See Tables on Pages 113-116	36VS-36
	24		36VS-24
	12		36VS-12
30	36		30VS-36
	24		30VS-24
	12		30VS-12
24	36		24VS-36
	24		24VS-24
	12		24VS-12
18	36		18VS-36
	24		18VS-24
	12		18VS-12
12	36		12VS-36
	24		12VS-24
	12		12VS-12
9	36		9VS-36
	24		9VS-24
	12		9VS-12
6	36		6VS-36
	24		6VS-24
	12		6VS-12

Fitting Dimensions				
Radius	R	A	B/C	L
For All 3-3/8" High Tray				
36"	34-1/2"	36-3/16"	36-3/16"	56-13/16"
24"	22-1/2"	24-3/16"	24-3/16"	38"
12"	11-7/8"	13-9/16"	13-9/16"	21-5/16"
For All 4" High Tray				
36"	34-1/2"	36-1/2"	36-1/2"	57-5/16"
24"	22-1/2"	24-1/2"	24-1/2"	38-1/2"
12"	11-7/8"	13-7/8"	13-7/8"	21-3/4"
For All 4-1/2" High Tray				
36"	34-1/2"	36-3/4"	36-3/4"	57-3/4"
24"	22-1/2"	24-3/4"	24-3/4"	38-7/8"
12"	11-7/8"	14-1/8"	14-1/8"	22-3/16"
For All 6" High Tray				
36"	34-1/2"	37-1/2"	37-1/2"	58-15/16"
24"	22-1/2"	25-1/2"	25-1/2"	40-1/16"
12"	11-7/8"	14-7/8"	14-7/8"	23-3/8"
For All 6-1/4" High Tray				
36"	34-1/2"	37-5/8"	37-5/8"	59-1/8"
24"	22-1/2"	25-5/8"	25-5/8"	40-1/4"
12"	11-7/8"	15"	15"	23-9/16"
For All 7" High Tray				
36"	34-1/2"	38"	38"	59-11/16"
24"	22-1/2"	26"	26"	40-7/8"
12"	11-7/8"	15-3/8"	15-3/8"	24-5/32"
For All 8" High Tray				
36"	34-1/2"	38-5/8"	38-5/8"	60-11/16"
24"	22-1/2"	26-1/2"	26-1/2"	41-5/8"
12"	11-7/8"	15-7/8"	15-7/8"	24-15/16"
For All 10" High Tray				
36"	34-1/2"	39-5/8"	39-5/8"	62-1/4"
24"	22-1/2"	27-1/2"	27-1/2"	43-3/16"
12"	11-7/8"	16-7/8"	16-7/8"	26-1/2"

Vertical Tees

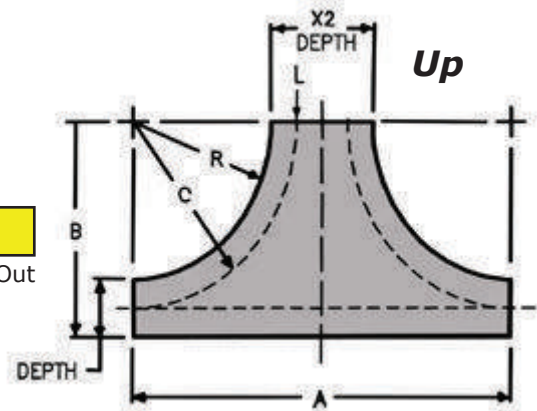
(All except I6 & I8)



Sample Catalog No.
(Prefix + Basic)

SLPD4- 24VT-12

Husky Ladder—Flange-Out
24"W x 12"R
Vertical Tee Down



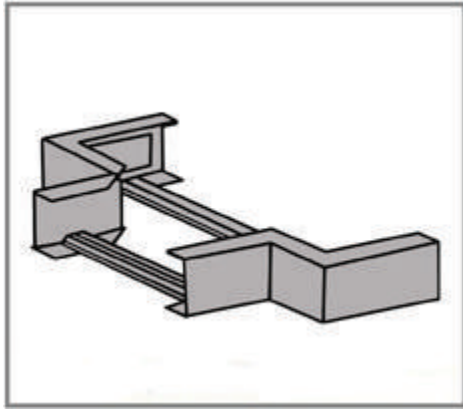
Note: Chart based on standard fittings without tangents. Contact factory for fittings with tangents.

Catalog Number				
Width	Radius	Prefix	Basic # Down	Basic # Up
36	36	See Tables on Pages 113-116	36VT-36	36VTU-36
	24		36VT-24	36VTU-24
	12		36VT-12	36VTU-12
30	36		30VT-36	30VTU-36
	24		30VT-24	30VTU-24
	12		30VT-12	30VTU-12
24	36		24VT-36	24VTU-36
	24		24VT-24	24VTU-24
	12		24VT-12	24VTU-12
18	36		18VT-36	18VTU-36
	24		18VT-24	18VTU-24
	12		18VT-12	18VTU-12
12	36		12VT-36	12VTU-36
	24		12VT-24	12VTU-24
	12		12VT-12	12VTU-12
9	36		9VT-36	9VTU-36
	24		9VT-24	9VTU-24
	12		9VT-12	9VTU-12
6	36		6VT-36	6VTU-36
	24		6VT-24	6VTU-24
	12		6VT-12	6VTU-12

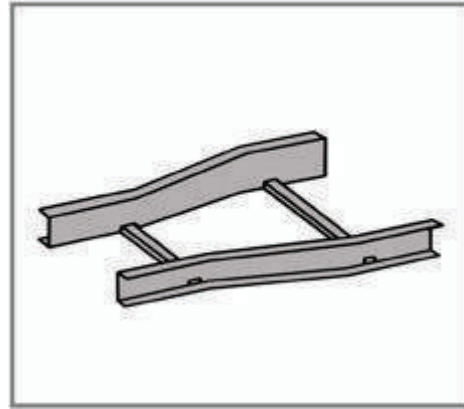
Fitting Dimensions					
Radius	R	A	B	L	C
For All 3-3/8" High Tray					
36"	34-1/2"	75-3/4"	37-7/8"	56-13/16"	36-3/16"
24"	22-1/2"	51-3/4"	25-7/8"	38"	24-3/16"
12"	11-7/8"	30-1/2"	15-1/4"	21-5/16"	13-9/16"
For All 4" High Tray					
36"	34-1/2"	77"	38-1/2"	57-5/16"	36-1/2"
24"	22-1/2"	53"	26-1/2"	38-1/2"	24-1/2"
12"	11-7/8"	31-3/4"	15-7/8"	21-3/4"	13-7/8"
For All 4-1/2" High Tray					
36"	34-1/2"	78"	39"	57-3/4"	36-3/4"
24"	22-1/2"	54"	27"	38-7/8"	24-3/4"
12"	11-7/8"	32-3/4"	16-3/8"	22-3/16"	14-1/8"
For All 6" High Tray					
36"	34-1/2"	81"	40-1/2"	58-15/16"	37-1/2"
24"	22-1/2"	57"	28-1/2"	40-1/16"	25-1/2"
12"	11-7/8"	35-3/4"	17-7/8"	23-3/4"	14-7/8"
For All 6-1/4" High Tray					
36"	34-1/2"	81-1/2"	40-3/4"	59-1/8"	37-5/8"
24"	22-1/2"	57-1/2"	28-3/4"	40-1/4"	25-5/8"
12"	11-7/8"	36-1/4"	18-1/8"	23-9/16"	15"
For All 7" High Tray					
36"	34-1/2"	83"	41-1/2"	59-11/16"	38"
24"	22-1/2"	59"	29-1/2"	40-7/8"	26"
12"	11-7/8"	37-3/4"	18-7/8"	24-5/32"	15-3/8"
For All 8" High Tray					
36"	34-1/2"	85"	46-5/8"	60-11/16"	38-5/8"
24"	22-1/2"	61"	32-1/2"	41-5/8"	26-1/2"
12"	11-7/8"	39-3/4"	21-7/8"	24-15/16"	15-7/8"
For All 10" High Tray					
36"	34-1/2"	89"	49-5/8"	62-1/4"	39-5/8"
24"	22-1/2"	65"	37-1/2"	43-3/16"	27-1/2"
12"	11-7/8"	43-3/4"	26-7/8"	26-1/2"	16-7/8"



Electray, Ventray/Ventrib Reducers



Husky Ladder Reducer—Flange-In

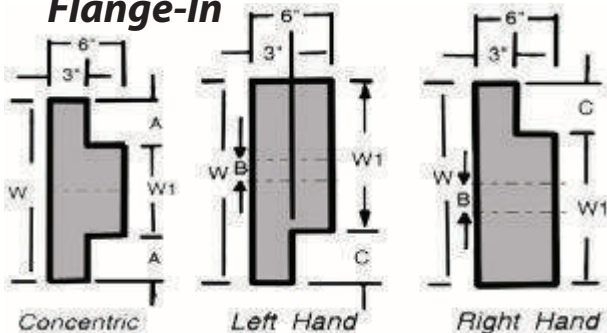


Husky Ladder Reducer—Flange-Out

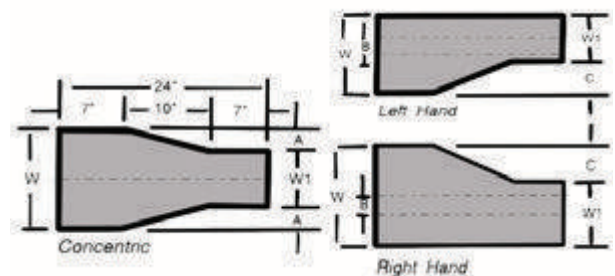
Note: Chart based on standard fittings without tangents. Contact factory for fittings with tangents.

Reducers for Husky Ladder Trays									
Width		Concentric Catalog No.		Left Hand Catalog No.		Right Hand Catalog No.			
W	W1	Prefix	Basic	Prefix	Basic	Prefix	Basic	A/B	C
36	30	See Tables on Pages 113-116	36R30	See Tables on Pages 113-116	36RL30	See Tables on Pages 113-116	36RR30	3"	6"
	24		36R24		36RL24		36RR24	6"	12"
	18		36R18		36RL18		36RR18	9"	18"
	12		36R12		36RL12		36RR12	12"	24"
	9		36R9		36RL9		36RR9	13-1/2"	27"
	6		36R6		36RL6		36RR6	15"	30"
30	24		30R24		30RL24		30RR24	3"	6"
	18		30R18		30RL18		30RR18	6"	12"
	12		30R12		30RL12		30RR12	9"	18"
	9		30R9		30RL9		30RR9	10-1/2"	21"
	6		30R6		30RL6		30RR6	12"	24"
24	18		24R18		24RL18		24RR18	3"	6"
	12		24R12		24RL12		24RR12	6"	12"
	9		24R9		24RL9		24RR9	7-1/2"	15"
	6		24R6		24RL6		24RR6	9"	18"
18	12		18R12		18RL12		18RR12	3"	6"
	9		18R9		18RL9		18RR9	4-1/2"	9"
	6		18R6		18RL6		18RR6	6"	12"
12	9		12R9		12RL9		12RR9	1-1/2"	3"
	6		12R6		12RL6		12RR6	3"	6"
9	6		9R6		9RL6		9RR6	1-1/2"	3"

Flange-In



Flange-Out





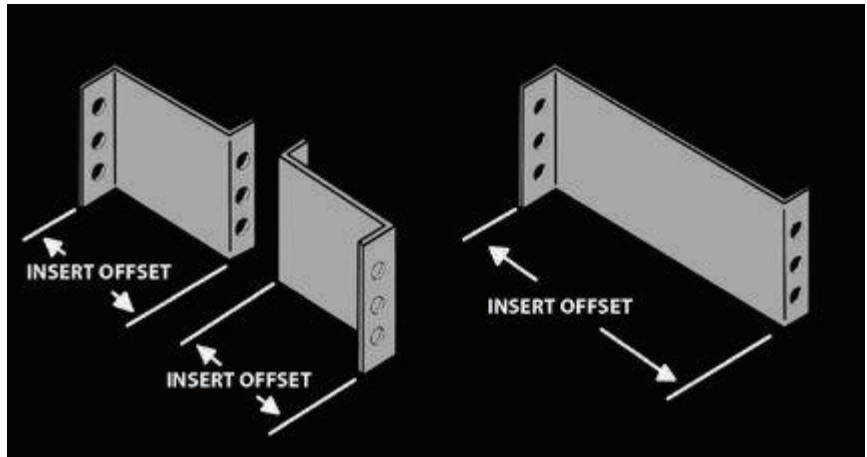
Reducing Splice Plates

Offset Splice Plates for Concentric and Eccentric Reductions

Reducing splice plates are used instead of reducer fittings and offer better versatility and economy since they are less expensive and do not require covers.

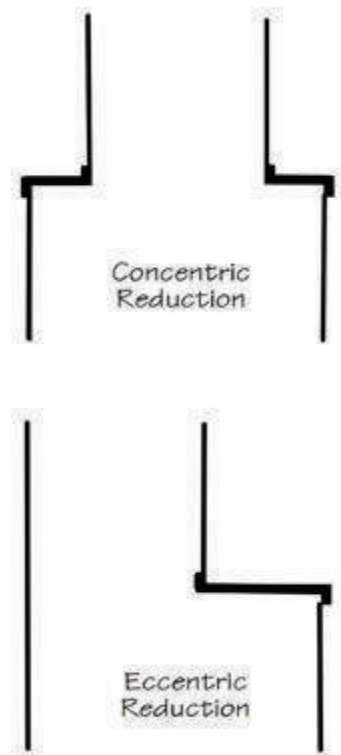
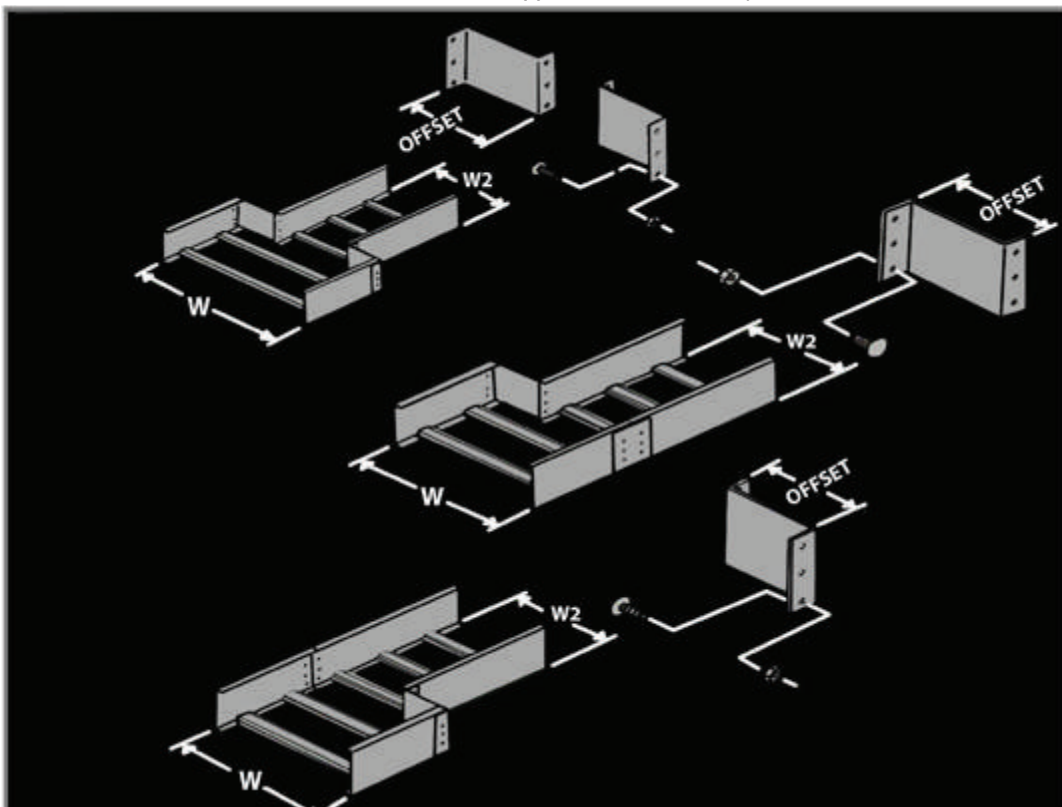
(Hardware is included)

For concentric reductions, two plates of equal offset are used. For eccentric reductions, one plate is used along with a standard splice connector (not included).



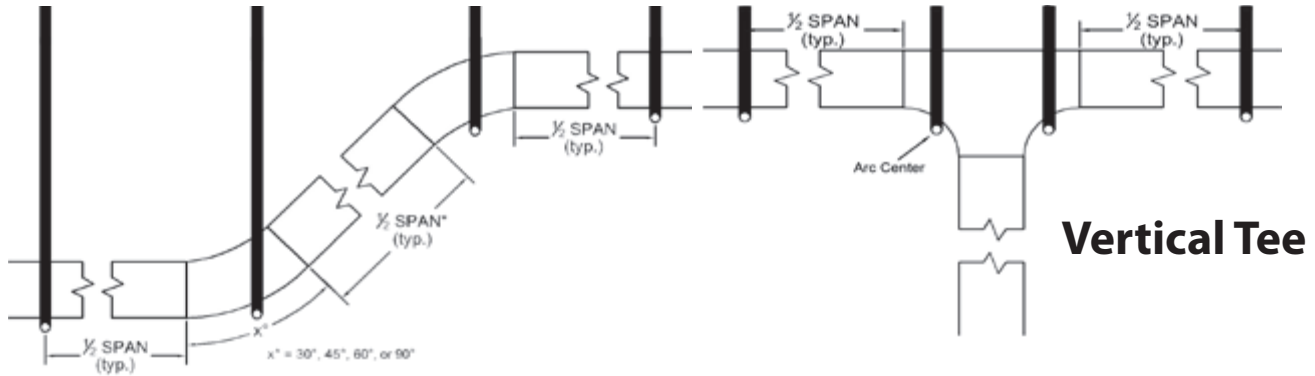
Tray Depth	Aluminum	HDGAF Steel	Stainless Steel 304	Stainless Steel 316	Galvannealed (Husky Way)
3-3/8", 4", 4-1/2"	ASP-HOR-()	SSP-HOR-()	4SP-HOR-()	6SP-HOR-()	NSP-HOR-()
6" & 7" (Except I6)	ASP-XOR-()	SSP-XOR-()	4SP-XOR-()	6SP-XOR-()	NSP-XOR-()
I6	ASP-I6OR-()	--	--	--	--
8" (Except I8)	ASP-L1OR-()	SSP-L1OR-()	4SP-L1OR-()	6SP-L1OR-()	NSP-L1OR-()
I8	ASP-I8OR-()	--	--	--	--
10"	ASP-D1OR-()	SSP-D1OR-()	4SP-D1OR-()	6SP-D1OR-()	NSP-D1OR-()

() = Insert offset of plate in inches.



Alternate Fitting Support Locations

Diagrammed below are fitting support locations as tested with specially constructed NEMA 20C cable tray fittings as an alternative to the support locations diagrammed in NEMA VE-2. Please consult the factory prior to ordering if you intend to support the cable tray in this manner.

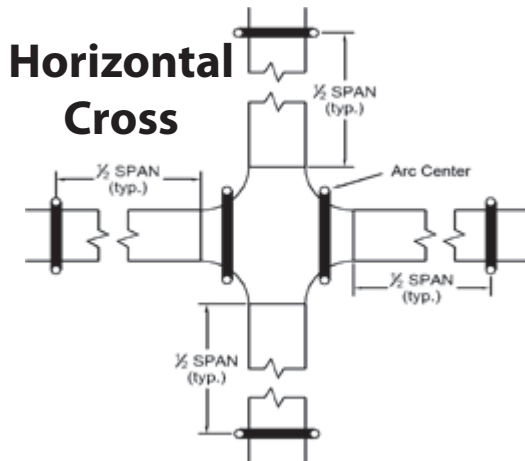


Vertical Tee

Vertical Elbow

*Maximum span without additional support

Horizontal Reducer

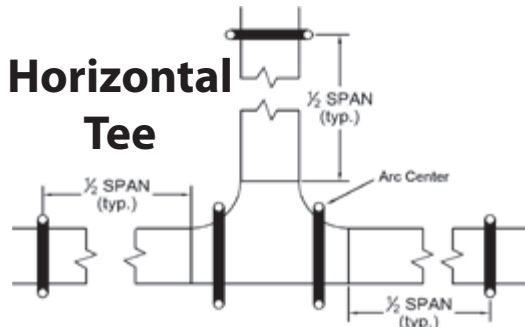


Horizontal Cross

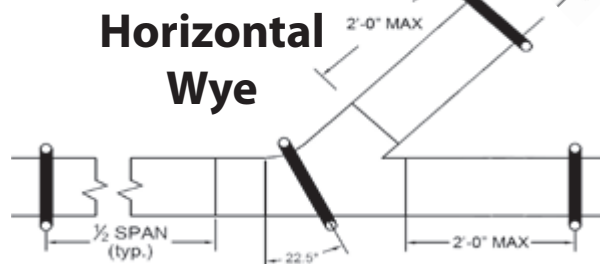
Horizontal Elbow



Horizontal Offset Reducer



Horizontal Tee



Horizontal Wye

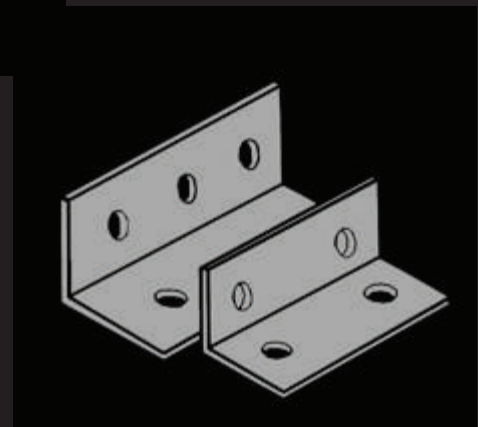
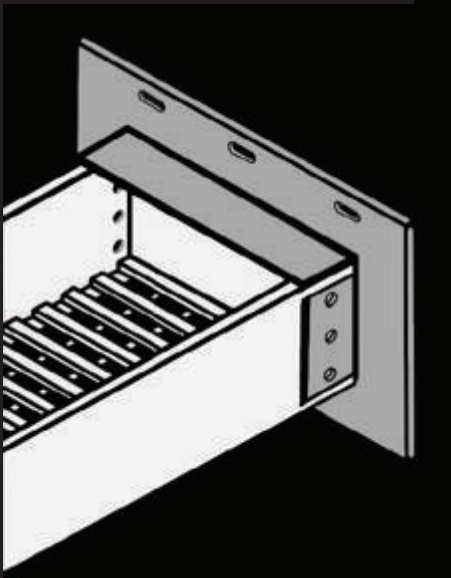
To ensure data available is most current, please visit www.MPHUSKY.com



MP HUSKY™
CABLE TRAY & CABLE BUS

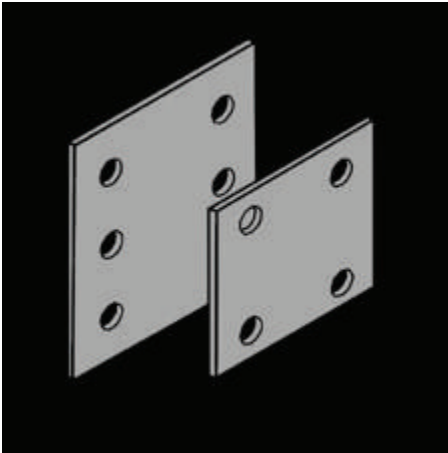
Accessories, Splices and Connectors

Splices and Connectors.....	Pgs. 137-142
Misc. Accessories	Pg. 143
Ground Connectors	Pgs. 143-144
Separators	Pgs. 145-147



Universal Splice Connectors for All Straight Sections and Fittings

These connectors are furnished with trays and are also available to purchase separately, if required for field cuts. Sold as EACH. (Hardware included)

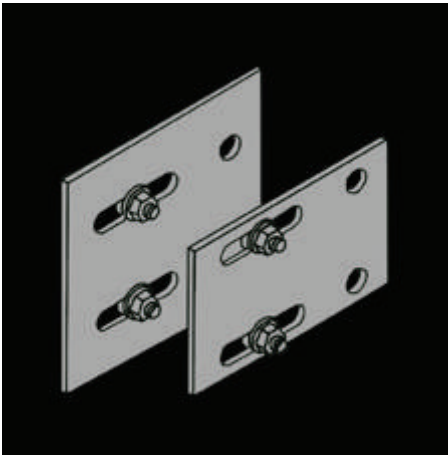


Note: Add 1B to the catalog number for a splice plate with MP Husky hole pattern on one side and a blank side for field drilling to match another make tray system.

Tray Height	Alum.	HDGAF Steel	SS 304	SS 316	Galvannealed (Husky Way)
3-3/8", 4", 4-1/2"	ASP-H2	SSP-H2	4SP-H2	6SP-H2	NSP-H2
6", 6-1/4", 7"	ASP-M2	SSP-M2	4SP-M2	6SP-M2	NSP-M2
I6 (10 Bolt)	ASP-E2	---	---	---	---
I8 (10 Bolt)	ASP-I8	---	---	---	---
8" (Except I8)	ASP-L1				
10"	ASP-D1				
WITH (1) BLANK SIDE					
3-3/8", 4", 4-1/2"	ASP-H2-1B	SSP-H2-1B	4SP-H2-1B	6SP-H2-1B	NSP-H2-1B
6", 6-1/4", 7" (Except I6)	ASP-M2-1B	SSP-M2-1B	4SP-M2-1B	6SP-M2-1B	NSP-M2-1B
8" (Except I8)	ASP-L1-1B				
10"	ASP-D1-1B				

Expansion Joint Splice Plates

Expansion splice plates for Ladder or Trough are designed to allow 1-1/2" free movement between adjacent straight lengths. When using expansion splices, it is important that the straight run be fixed permanently to its support at the approximate center between expansion joints whenever possible, and that all other points be supported in a manner that the longitudinal expansion is not restricted. Supports should be provided within one foot on each side of an expansion joint to ensure its proper functioning. Sold as EACH. (Hardware included)

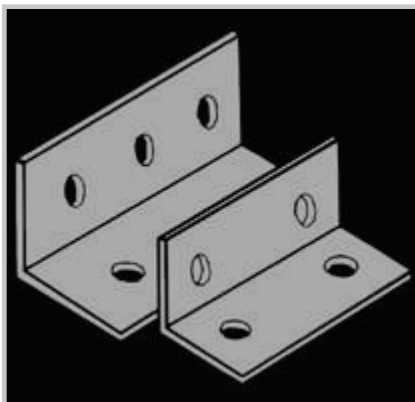


TIP: See NEMA VE-2 for proper installation instructions regarding frequency of use and setting the gap during installation. **Bonding jumpers required.**

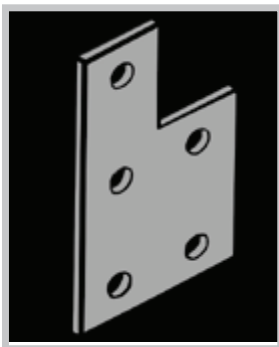
Tray Height Or Type	Alum.	HDGAF	SS 304	SS 316	Galvannealed (Husky Way)
3-3/8", 4", 4-1/2", G4	ASP-4-EX	SSP-4-EX	4SP-4-EX	6SP-4-EX	NSP-4-EX
6", 6-1/4", 7", G6	ASP-6-EX	SSP-6-EX	4SP-6-EX	6SP-6-EX	NSP-6-EX
I6	ASP-I6-EX	---	---	---	---
I8	ASP-I8-EX	---	---	---	---
8" (Except I8)	ASP-8-EX	---	---	---	---
10"	ASP-10-EX	---	---	---	---

90° Splices for Trough, Ladder and Channel

These splices are used for field cut tees if there is no room for bends or fittings. Also used for attachment to metal enclosures. Sold as EACH. (Hardware included)



Tray Height Or Type	Alum.	HDGAF	SS 304	SS 316	Galvannealed (Husky Way)
3-3/8", 4", 4-1/2", G4	ASP-4-90	SSP-4-90	4SP-4-90	6SP-4-90	NSP-4-90
6", 6-1/4", 7", G6	ASP-6-90	SSP-6-90	4SP-6-90	6SP-6-90	NSP-6-90
I6	ASP-I6-90	---	---	---	---
I8	ASP-I8-90	---	---	---	---
8" (Except I8)	ASP-8-90	---	---	---	---
10"	ASP-10-90	---	---	---	---

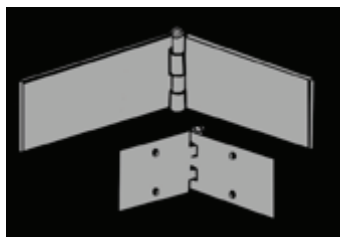
**Step Down Splice**

Used to connect 6"-7" tray to 3-3/8"- 4-1/2" tray (Except I6).
(Hardware included)

Alum.	HDGAF	SS 304	SS 316	Galvannealed (Husky Way)
ASP-MH2	SSP-MH2	4SP-MH2	6SP-MH2	NSP-MH2

Hinged Splices

Horizontal and vertical hinged splices offer field flexibility to go around pipes, ducts, and other obstacles that occur during installation. Electrical continuity is maintained by using bonding jumpers such as AFS-C, which are purchased separately. Hinged splices for Ladder or Trough come in sets of two. Hinged splices for 4" and 6" Channel come as single units. Horizontal hinged splices require field drilling of the long hinge member and all hinged splices require additional supports, as they are not considered to be full strength mechanical splices. Sold in PAIRS. (Hardware included)

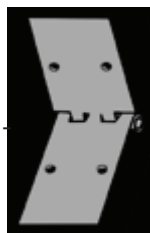
Horizontal

NOTE: Only for use with
an angle of 30° or less

Channel ---

**Vertical**

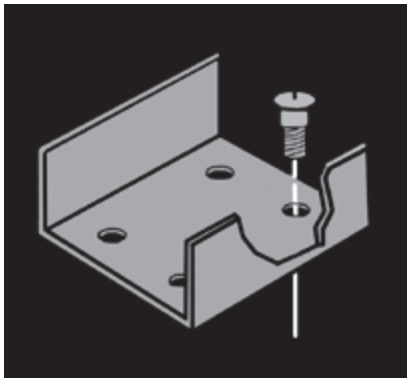
Channel ---



Tray Depth or Type	Alum.	Mill Galv.	SS 304	SS 316	HDGAF	Galvan. (Husky Way)
3-3/8", 4", 4-1/2"	AFS-H4	SFS-H4	4FS-H4	6FS-H4	n/a	NSF-H4
6", 6-1/4", 7" (Except I6 & I8)	AFS-H6	SFS-H6	4FS-H6	6FS-H6	n/a	NSF-H6
I6	AFS-HI6	---	---	---	---	---
I8	AFS-HI8	---	---	---	---	---
8" (Except I8)	AFS-H8	---	---	---	---	---
10"	AFS-H10	---	---	---	---	---
4" CHANNEL(G4)	AFS-H4G	SFS-H4G	4FS-H4G	6FS-H4G	GFS-H4G	---
6" CHANNEL(G6)	AFS-H6G	SFS-H6G	4FS-H6G	6FS-H6G	GFS-H6G	---

Tray Depth or Type	Alum.	Mill Galv.	SS 304	SS 316	HDGAF	Galvan. (Husky Way)
3-3/8", 4", 4-1/2"	AFS-V4	SFS-V4	4FS-V4	6FS-V4	GFS-V4	NSF-V4
6", 6-1/4", 7" (Except I6 & I8)	AFS-V6	SFS-V6	4FS-V6	6FS-V6	GFS-V6	NSF-V6
I6	AFS-VI6	---	---	---	---	---
I8	AFS-VI8	---	---	---	---	---
8" (Except I8)	AFS-V8	---	---	---	---	---
10"	AFS-V10	---	---	---	---	---
4" CHANNEL(G4)	AFS-V4G	SFS-V4G	4FS-V4G	6FS-V4G	n/a	---
6" CHANNEL(G6)	AFS-V6G	SFS-V6G	4FS-V6G	6FS-V6G	n/a	---

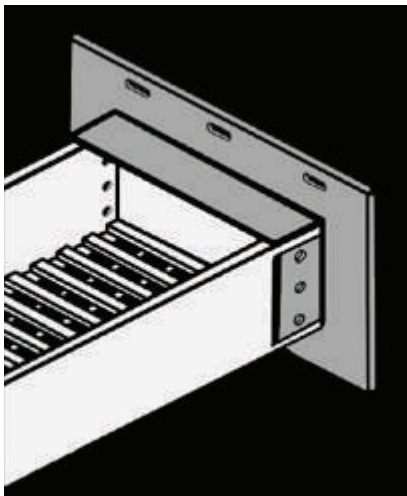
***Above part numbers are for 1 pair (with the exception of G4 & G6—they are 1 ea). Hardware is included with the above items.**



Channel Splice Plates

Husky 4" and 6" wide Channel systems are supplied with the following wrap-around splice plates and hardware. Additional splice plates for field cuts can be ordered by the following catalog numbers. (Hardware included)

Type	Width	Alum.	HDGAF	SS 304	SS 316
4" G4 Channel	4	ASP-Y2	SSP-Y2	4SP-Y2	6SP-Y2
6" G6 Channel	6	ASP-X2	SSP-X2	4SP-X2	6SP-X2



Box Connectors for Ladder and Trough

Box connectors terminate Ladder or Trough at Switchgear housings or other metal structures. (Splice hardware included)

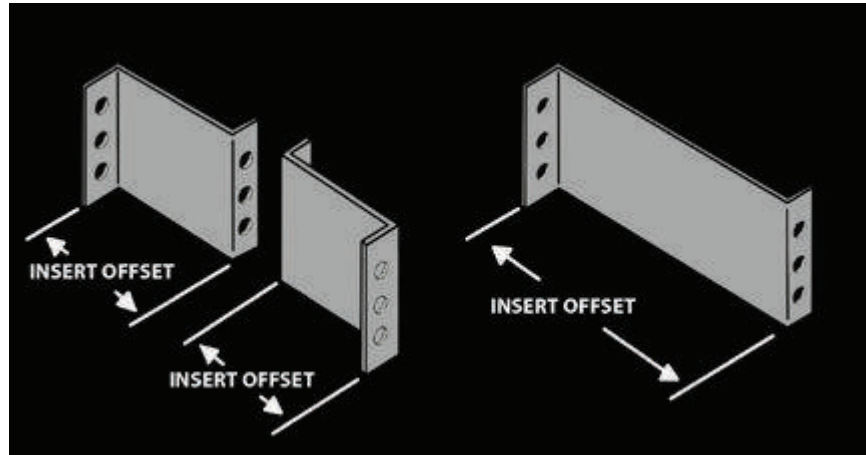


Tray Type	Alum.	Mill Galv.	HDGAF	SS 304	SS 316	Galvannealed (Husky Way)
HA, ASH6, PSH0, NSH0	AVBC-()-3-3/8	VBC-()-3-3/8	GBC-()-3-3/8	4VBC-()-3-3/8	6VBC-()-3-3/8	NVBC-()-3-3/8
J2, NSJ0, PSJ0, ASJ6	AVBC-()-4	VBC-()-4	GBC-()-4	4VBC-()-4	6VBC-()-4	NVBC-()-4
JA, JB, KC, YA2, YD, IJA, IJB, IJC, IYA, IYB, IYC	AVBC-()-4-1/2	VBC-()-4-1/2	GBC-()-4-1/2	4VBC-()-4-1/2	6VBC-()-4-1/2	---
M61, MB1, MC, MD4, X, X1, X1M, XA, PSM0, NSM0, ASM6, IMB, IMC, IMD, IXA, IXB, IXC, IXD	AVBC-()-6	VBC-()-6	GBC-()-6	4VBC-()-6	6VBC-()-6	NVBC-()-6
XB, XC, XD	AVBC-()-6-1/4	VBC-()-6-1/4	GBC-()-6-1/4	4VBC-()-6-1/4	6VBC-()-6-1/4	---
X7, X71, IXD7, MD7, MD74, XA7, XB7, XC7, XD7	AVBC-()-7	VBC-()-7	GBC-()-7	4VBC-()-7	6VBC-()-7	---
B2	---	SBC-()-4	GSBC-()-4	4SBC-()-4	6SBC-()-4	---
BB, FC, CA2, CD	ABC-()-4-1/2	SBC-()-4-1/2	GSBC-()-4-1/2	4SBC-()-4-1/2	6SBC-()-4-1/2	---
P61, PB1, PC, PD, EA, E, E1	ABC-()-6	SBC-()-6	GSBC-()-6	4SBC-()-6	6SBC-()-6	---
EB, EC, ED	ABC-()-6-1/4	SBC-()-6-1/4	GSBC-()-6-1/4	4SBC-()-6-1/4	6SBC-()-6-1/4	---
E7, E71, PD7, PD74, EB7, EC7	ABC-()-7	---	---	---	---	---
I6	ABC-()-I6	---	---	---	---	---
I8	ABC-()-I8	---	---	---	---	---
L1	AVBC-()-L1	---	---	---	---	---
D1	AVBC-()-D1	---	---	---	---	---

() = Insert Tray Width

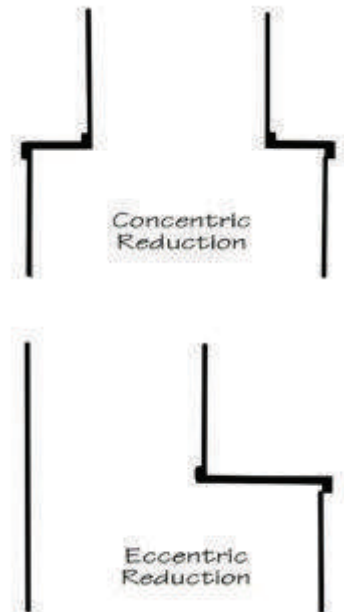
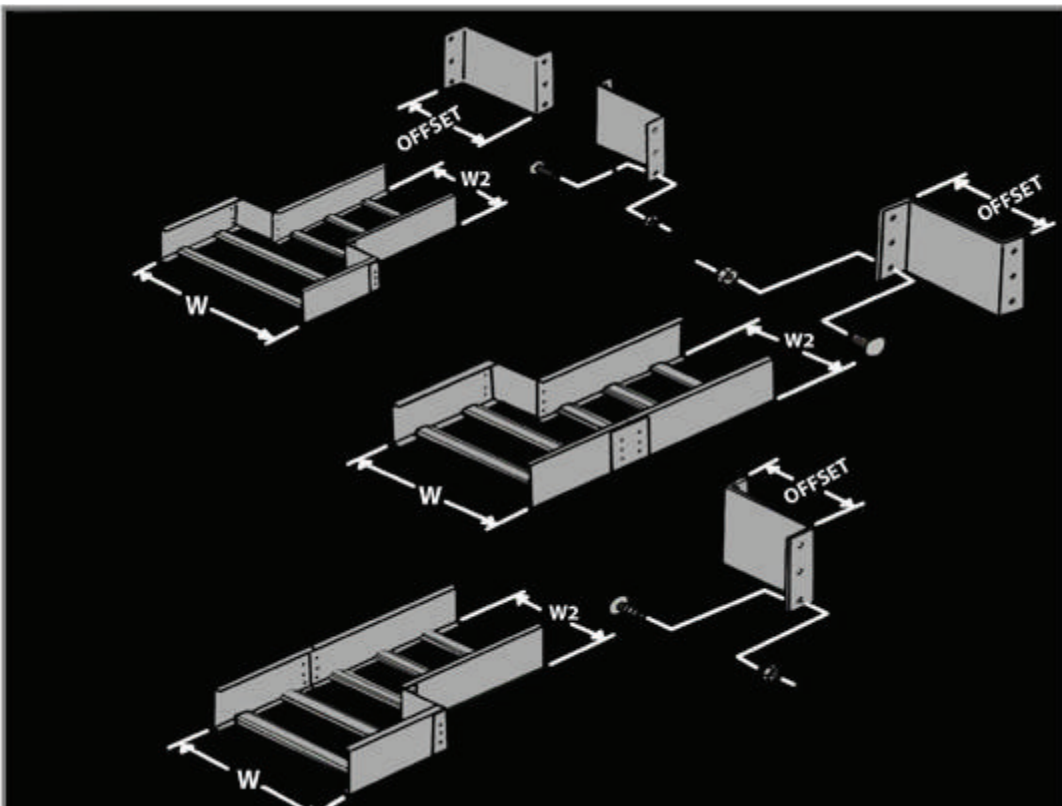
Offset Splice Plates for Concentric and Eccentric Reductions

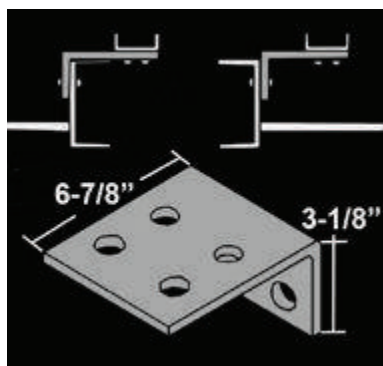
Reducing splice plates are used instead of reducer fittings and offer better versatility and economy since they are less expensive and do not require covers. For concentric reductions, two plates of equal offset are used. For eccentric reductions, one plate is used along with a standard splice connector, not included. (Splice hardware is included)



Tray Depth	Aluminum	HDGAF Steel	Stainless Steel 304	Stainless Steel 316	Galvannealed (Husky Way)
3-3/8", 4", 4-1/2"	ASP-HOR-()	SSP-HOR-()	4SP-HOR-()	6SP-HOR-()	NSP-HOR-()
6" & 7" (Except I6)	ASP-XOR-()	SSP-XOR-()	4SP-XOR-()	6SP-XOR-()	NSP-XOR-()
I6	ASP-I6OR-()	--	--	--	--
8" (Except I8)	ASP-L1OR-()	SSP-L1OR-()	4SP-L1OR-()	6SP-L1OR-()	NSP-L1OR-()
I8	ASP-I8OR-()	--	--	--	--
10"	ASP-D1OR-()	SSP-D1OR-()	4SP-D1OR-()	6SP-D1OR-()	NSP-D1OR-()

() = Insert offset of plate in inches.

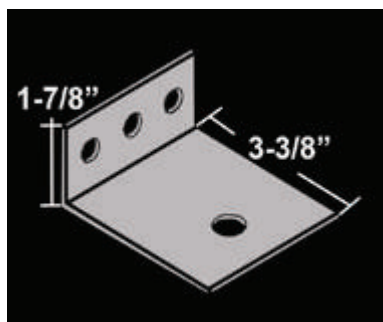




Trough and Ladder to Single Channel Connectors For All Trays

These connectors take a single Channel off a Ladder or Trough sideways or downward. (Hardware included)

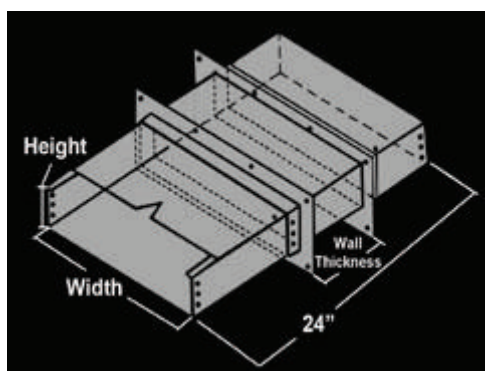
Channel Type	Alum.	HDGAF	SS 304	SS 316	Galvannealed (Husky Way)
G4, G6	ACC-GU	SCC-GU	4CC-GU	6CC-GU	NCC-GU



Structural Connector For Ladders and Trough

Structural connectors terminate Ladder or Trough on top of concrete floors. Tray hardware is included. Use 1/2\" hardware at floor connection.

Channel Type	Alum.	HDGAF	SS 304	SS 316	Galvannealed (Husky Way)
All Trays	ASC-U	SSC-U	4SC-U	6SC-U	NSC-U



Wall Penetration Sleeve

The wall penetration sleeve is a 24\" long pan with wall flanges, cover & cover screws, that allows tray to be connected on both sides of the wall. Gaskets and sealants (not included), may be applied in the field.

(W)=insert Width
(D)=insert Depth

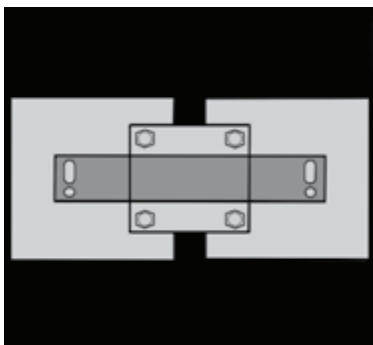
Channel Type	Alum.	Mill-Galv.	HDGAF	SS 304	SS 316	Galvannealed (Husky Way)
All Trays	AWPS-(W)-(D)	PWPS-(W)-(D)	SWPS-(W)-(D)	4WPS-(W)-(D)	6WPS-(W)-(D)	NWPS-(W)-(D)



Hardware for Splice Connectors

Splice hardware is offered in standard zinc plated steel finish, or in 316 stainless steel to withstand corrosive attack under many atmospheric conditions.

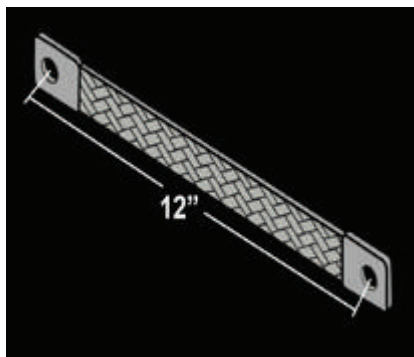
Hardware Item	Plated Steel	SS 316
3/8\" Splice Bolt	B-100	B-100-6S
Splice Nut/Washer Comb.	N-100	N-100-6S

**Bonding Jumpers**

Bonding jumpers are available to maintain electrical continuity across hinged and expansion splices. The aluminum jumpers are used with oxidation inhibitor under the contact points. The short circuit rating is 600 Amperes. Hardware included. Sold as each.

Catalog Number

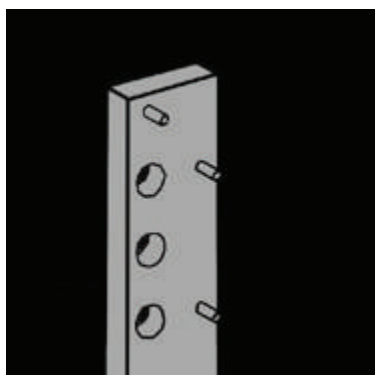
AFS-C

**Bonding Jumper/Grounding Strap**

Tin plated braided copper. 12" long hole to hole.

Hardware Included

Tray Type	Catalog Number	
All Trays Except Husky Centray	AFS-CT-600 (600 amps)	#1 AWG
	AFS-CT-1000 (1000 amps)	#2 / 0
	AFS-CT-1200 (1200 amps)	#3 / 0
	AFS-CT-1600 (1600 amps)	#4 / 0
	AFS-CT-2000 (2000 amps)	250 KCMIL
Husky Centray Center Spine & Wall Mount	AFS-CT-600-CR (600amps)	#1 AWG
	AFS-CT-1000-CR (1000 amps)	#2 / 0
	AFS-CT-1600-CR (1600 amps)	#4 / 0

**Drill Jigs**

Using drill jigs on field-cut ends ensures the proper alignment of holes, allowing full design strength of the splice. A splice plate can also be clamped to the side rail and used as a template for a small quantity of field cuts.

Tray Depth	Catalog No.
3-3/8"	VDJ
4"	JDJ
4-1/2"	KDJ
6"	MDJ
6-1/4"	XBDJ
7"	MDDJ
8"	L1DJ
10"	D1DJ

Note: These drill jigs are for C-Channel rails and will not work on I-Beam type trays.

11-ACCESSORIES

**Oxidation Inhibitor**

An oxidation inhibitor is used where permanent electrical continuity is important. For best results, clean connecting surfaces from dirt and oil by wiping clean and removing oxide coating by abrasion once over with emery cloth. Apply a thin coat of oxidation inhibitor on the cleaned surfaces and make connection immediately. Each container of compound is sufficient to effect approximately eighty splices.

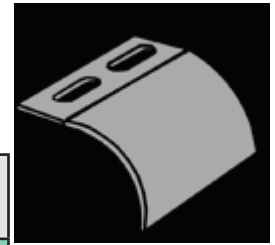
Catalog Number

OI

*Above part numbers are for 1 each.

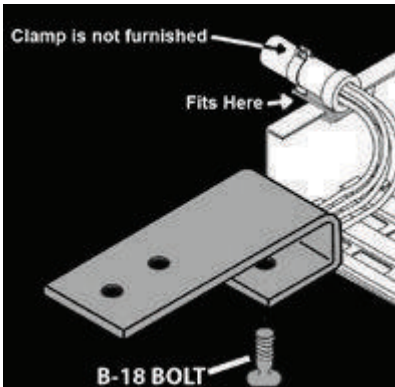
End Dropout

This dropout is used at the end of a cable tray system, or to provide a smooth drop off for small cables or any point between the rungs in the ladder system. It can be used in pairs, where dropping cable from both directions, or singly, when dropping cable in one direction. Hardware Included.



Tray Type	Alum.	Mill-Galv.	SS 304	SS 316	HDGAF	Galvann. (Husky Way)
JA,JB,MD4,XB,XC,IJA,IJB,IJCMD7,MD74	AVD-()	SVD-()	4VD-()	6VD-()	GVD-()	N/A
MB1,M61,XA	AVD-()-XA	SVD-()-XA	4VD-()-XA	6VD-()-XA	GVD-()-XA	N/A
HA,J2,MC,KC	AVD-()-HA	SVD-()-HA	4VD-()-HA	6VD-()-HA	GVD-()-HA	N/A
YA2,I8,IYA,IYB,IYC,IMB,IMC,IMD,IXA,IXB,IXC,IXD7	AVD-()-YA	SVD-()-YA	4VD-()-YA	6VD-()-YA	GVD-()-YA	N/A
XD,YD,X,X1,X1M,X7,X71,I6,XA,XB7,XC7,XD7	AVD-()-X	SVD-()-X	4VD-()-X	6VD-()-X	GVD-()-X	N/A
All Electray & Husky Way	ABD-()	SBD-()	4BD-()	6BD-()	GBD-()	NBD-()

()=insert width
Hardware included.
Part # is for 1 each.

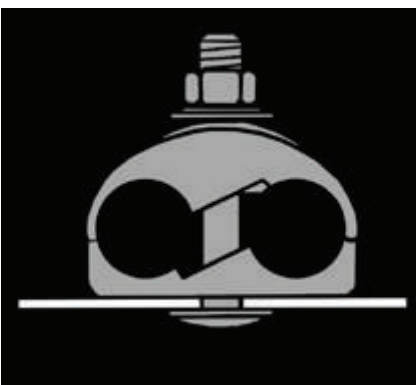


Conduit Side Type Dropouts

The conduit side type dropout is a bracket used to secure a conduit clamp (not included), to the side rail of the tray, allowing cables to exit the tray into conduit drops to the equipment.

Tray Type	Zinc Plated	SS 304	SS 316	HDGAF
All Trays	VDS-U	4VDS-U	6VDS-U	GVDS-U

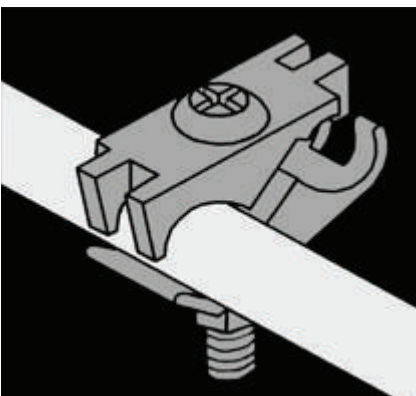
Part # is for 1 ea.

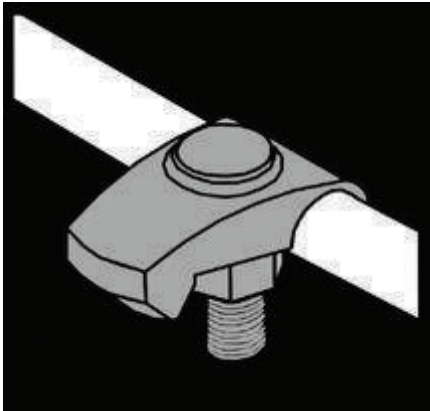
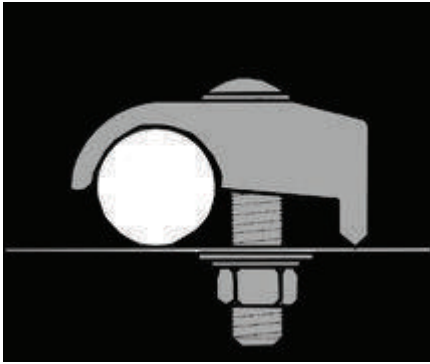


Grounding Connectors

Type GC Connectors hold a single through cable and a tap cable while separating the ground conductor from the cable tray surface. Note that the bolt head is mounted on the inside wall of the cable tray to avoid damage to the cable insulation. Grounding connectors may be used with aluminum or galvanized steel cable trays and aluminum or copper conductors. When mounted horizontally, the bolt may be used to replace one of the bolts in a splice plate, eliminating the need to drill the tray. When used on aluminum conductors the cable must be scratch brushed and Oxidation Inhibitor (OI) must be used on the cable and connector. Clamps are tin plated.

Conductor	Catalog No.
#6(SOL),#4,#3,#2,#1 & 1/0 STR (.162-.372 Dia)	GC-2525-CT
#2 Sol, #1, 1/0 & 2/0 STR (.258-.419 Dia)	GC-2626-CT
2/0 (STR),3/0, 4/0, 250KCMIL (.414-.575 Dia)	GC-2929-CT





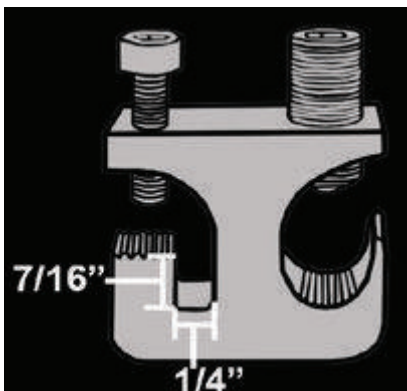
Grounding Clamps

Type GBM high copper alloy Clamps hold a single through cable directly on the cable tray surface. One wrench installation and UL467 listed. Copper alloy cast body with Durium bolts, nuts and washers.

GB style clamps have a back piece that separates the cable from the tray surface. GB style not shown.

Conductor	GBM Catalog No.	GB Catalog No.
#4 (SOL), #3, #2, #1, 1/0 & 2/0 Str	GBM-26G3	GB-26G3
2/0 (SOL), 3/0, 4/0 & 250MCM	GBM-29G3	GB-29G3
300, 350, 400 & 500MCM	GBM-34G3	GB-34G3
550-750MCM	GBM-39G3	GB-39G3

These copper clamps are furnished in copper alloy, however tin plating is available as an option.



Grounding Clamp (NEW)

Ground Clamp for fastening ground wire to Cable Tray or Cable Bus. Clamp is tin plated extruded aluminum with Zinc Electroplated Steel hardware. Use for aluminum or copper conductors. Clamp has serrations to bite through insulating oxides on aluminum tray and grip the tray. Screws tighten with 1/4" hex wrench.

Third Party Certification:

UL Listed E-24264

CSA Certified LR9795 (for copper conductors only)

Applicable Third Party standards:

UL Standard 467

CSA Standard C22.2 No. 41

NEC 250.77 and 392.6

Conductor	Catalog No.
#6, #4, #3, #2, #1, 1/0, 2/0, 3/0, 4/0 AWG to 250KCMIL	HP-CTGC



Double Grounding Clamp (NEW)

This zinc plated Double Grounding Clamp is used to clamp ground wire to the tray or structure. The hole is 5/16".

Cable Size	Catalog No.
5/16"	HCM-28
3/8"	HCM-29
1/2"	HCM-30

Cable Separators / Divider Strips

Cable separators (divider strips) are available for all tray types in aluminum, HDGAF, mill-galvanized, galvanized and 304 or 316 stainless steel. Separators come in either 3", 5", 6", 7", 8", or 10" heights and are slotted at regular intervals for ease of installation without field drilling. Each separator is furnished with all necessary splice clips and the required number of nuts, bolts, and captive lock washers. Separator Rung Fasteners must be ordered separately for attachment to Ladder rungs without drilling. One (CSS) separator splice included with each.

Straight Lengths: Standard length is 10 or 12 feet. HDGAF will be provided in lengths no longer than 72". The grouping of slots is designed to fit the hole pattern of MP Husky corrugated ventilated Troughs and Ladder Rungs.

Sep Hgt	Tray Hgt	Alum.	Mill-Galv.	SS 304	SS 316	HDGAF	Galvann. (Husky Way)
2-3/4"	3-3/8"-4-1/2"	A3S-144	S3S-144	43S-144	63S-144	G3S-72	N3S-144
4-3/4"	6"-6-1/4"	A5S-144	S5S-144	45S-144	65S-144	G5S-72	N5S-144
5-3/4"	7"	A6S-144	S6S-144	46S-144	66S-144	G6S-72	---
6-3/4"	8"	A7S-144	---	---	---	---	---
8-3/4"	10"	A9S-144	---	---	---	---	---

For 10 ft lengths, change the -144 to -120 on the end of the part number.

For 6 ft. lengths, use -72

For 5 ft. lengths, use -60

Horizontal Bends: Standard length is 6 feet. Each piece is punched and slotted for easy field adjustment to any degree of radius curvature. Sections may be field cut or continued along a straight run. One (CSS) separator splice included with each.

Sep Hgt	Alum.	Mill-Galv.	SS 304	SS 316	HDGAF	Galvannealed (Husky Way)
2-3/4"	A3S-HA	S3S-HA	43S-HA	63S-HA	G3S-HA	N3S-HA
4-3/4"	A5S-HA	S5S-HA	45S-HA	65S-HA	G5S-HA	N5S-HA
5-3/4"	A6S-HA	S6S-HA	46S-HA	66S-HA	G6S-HA	---
6-3/4"	A7S-HA	---	---	---	---	---
8-3/4"	A9S-HA	---	---	---	---	---

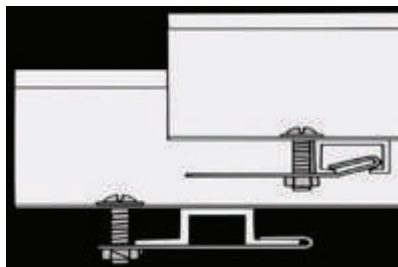
For Vertical Bends: Vertical separators must be factory formed to the proper radius needed. Vertical separators can be ordered to the degree of bend or the customer can order all 90° separators and field cut them to the proper degree bends. One (CSS) separator splice included with each.

The following information is required at the time of order:

1. Inside or outside bend
2. Type of material
3. Degree of bend
4. Radius of bend
5. Separator height

Example: A3V-VI45-24

Sep Hgt	Alum.	Mill-Galv.	SS 304	SS 316	HDGAF	Galvannealed (Husky Way)
2-3/4"	A3V-()	S3V-()	43V-()	63V-()	G3V-()	N3V-()
4-3/4"	A5V-()	S5V-()	45V-()	65V-()	G5V-()	N5V-()
5-3/4"	A6V-()	S6V-()	46V-()	66V-()	G6V-()	---
6-3/4"	A7V-()	---	---	---	---	---
8-3/4"	A9V-()	---	---	---	---	---



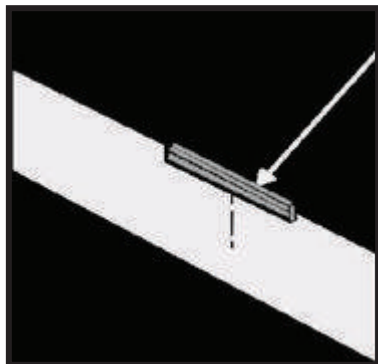
Separator Fasteners for Ladders

Separator fasteners allow attachment of separators to Ladder rungs without drilling the rungs (except I6 & I8). Order 4 per straight section, 3 per horizontal fitting and 2 per vertical fitting. Rung fasteners are stainless steel.

Part number is for one each.

Catalog Number

SSUSC-U



Separator Splice

Our CSS Separator Splice (sold separately) is applied to ensure a smooth transition between barrier strips.

Catalog Number

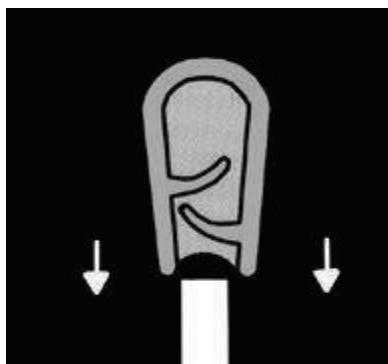
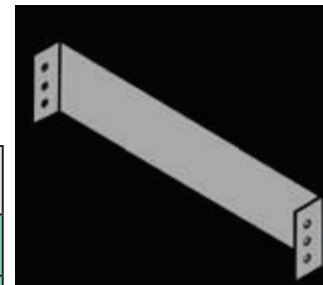
CSS

End Plates

Blind end plates are available for all tray types and are furnished with mounting hardware.

() = Insert Tray Width Hardware included.

Siderail Height	Alum.	Mill-Galv.	SS 304	SS 316	HDGAF	Galvan. (Husky Way)
3-3/8"	AEP-()-3-3/8	SEP-()-3-3/8	4EP-()-3-3/8	6EP-()-3-3/8	GEP-()-3-3/8	NEP-()-3-3/8
4"	AEP-()-4	SEP-()-4	4EP-()-4	6EP-()-4	GEP-()-4	NEP-()-4
4-1/2"	AEP-()-4-1/2	SEP-()-4-1/2	4EP-()-4-1/2	6EP-()-4-1/2	GEP-()-4-1/2	---
6", I6	AEP-()-6	SEP-()-6	4EP-()-6	6EP-()-6	GEP-()-6	NEP-()-6
6-1/4"	AEP-()-6-1/4	SEP-()-6-1/4	4EP-()-6-1/4	6EP-()-6-1/4	GEP-()-6-1/4	---
7"	AEP-()-7	SEP-()-7	4EP-()-7	6EP-()-7	GEP-()-7	---
8", I8	AEP-()-8	---	---	---	---	---
10"	AEP-()-10	---	---	---	---	---



Mini Trim

Mini trim can be used as a protective edging to protect cables from sharp surfaces that cables may contact. Mini trim is a vinyl embossed extrusion with a segmented metal core that can be cut with a knife between the metal core segments. It will grip edges from .010" to .050" thick, and is supplied in 100 ft. and 250 ft. rolls in black.

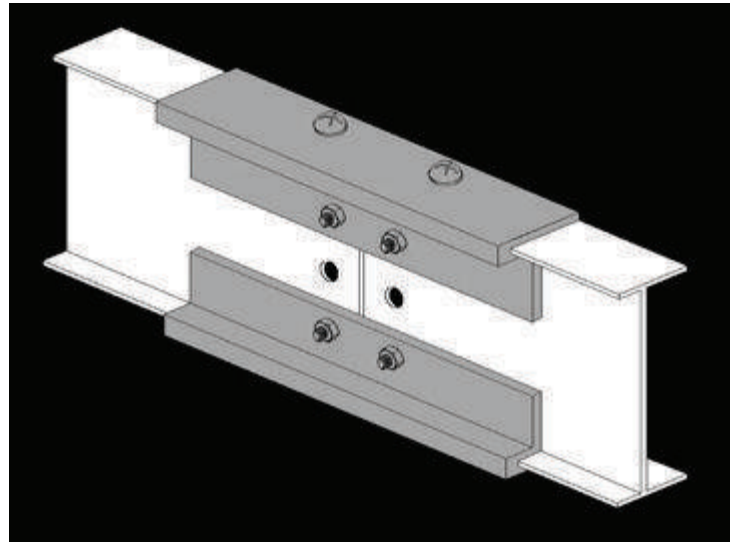
Length	Catalog Number
100 ft.	MINI TRIM-100
250 ft.	MINI TRIM-250

MP Husky Mid-Span Splice (NEW)

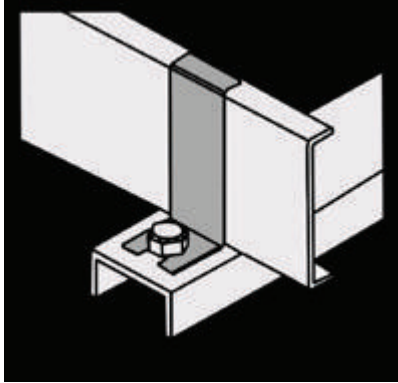
MP Husky's Mid-Span Splice option provides the ability to place a splice at any point within the support span without diminishing the load rating of certain tray types based on an installation of 3 spans or more. Requires some field drilling. (Hardware Included)

Catalog Number
ASP-MS-()

() = insert tray height

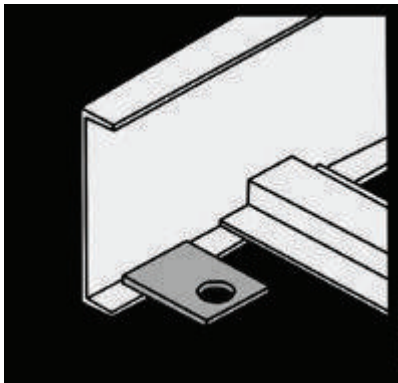


NOTE: Please contact manufacturer for list of approved tray types


Single Hold Down/Expansion Clips for Flange-In Trough or Ladder

This clip holds flange-in trays securely to a lower support channel or bracket and can also be used as an expansion guide with a W-12 washer placed under the base. (W-12 washer sold separately) Use 1/2" hardware.

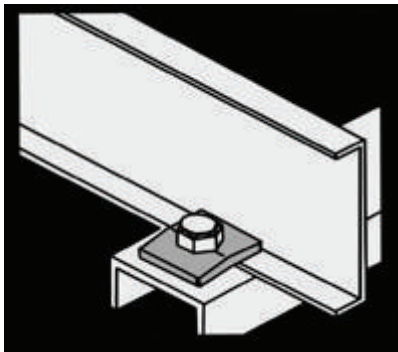
Siderail Height	Tray Type	Mill-Galv.	SS 304	SS 316	HDGAF	Galvann. (Husky Way)
3-3/8"	HA,NSH0,PSH0,ASH6	HB-2	4HB-2	6HB-2	GHB-2	NHB-2
4"	J2,NSJ0,PSJ0,ASJ6	JB-2	4JB-2	6JB-2	GJB-2	NJB-2
4-1/2"	JA,JB,KC,YA2,YD	KB-2	4KB-2	6KB-2	GKB-2	N/A
6"	M61,MB1,MC,MD4,X,X1,X1M XA,NSM0,PSM0,ASM6	MB-2	4MB-2	6MB-2	GMB-2	NMB-2
6-1/4"	XB,XC,XD	XCB-2	4XCB-2	6XC-2	GXCB-2	N/A
7"	MD7,MD74,X7,X71, XA7,XB7,XC7	X7B-2	4X7B-2	6X7B-2	GX7B-2	N/A
8"	L1	L1B-2	4L1B-2	6L1B-2	GL1B-2	N/A
10"	D1	D1B-2	4D1B-2	6D1B-2	GD1B-2	N/A


Single Hold Down Clips for Flange-In

This clip holds all Husky ladders to a support channel or bracket.

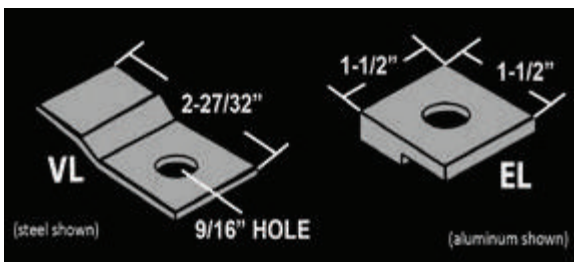
Tray Type	Zinc Plated	SS 304	SS 316	HDGAF
Flange-In 3/8" Hdw	SHDC-V	4HDC-V	6HDC-V	GHDC-V
Flange-In 1/2" Hdw	SHDC-V-1/2	4HDC-V-1/2	6HDC-V-1/2	GHDC-V-1/2

Hardware not included.


Single Hold Down Clips for Flange-Out or I-Beam Ladder

This clip holds Husky Ladder trays securely to a lower support channel or bracket. Use 1/2" hardware.

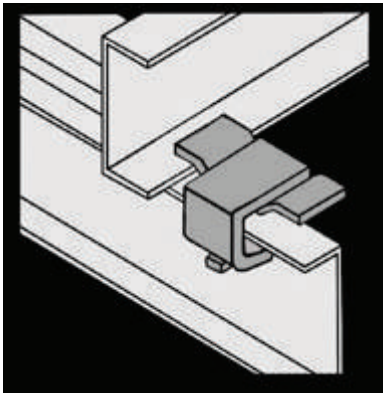
Tray Type	Aluminum	Zinc Plated	SS 304	SS 316	HDGAF
All Flange-Out	AHDC-A	SHDC-A	4HDC-A	6HDC-A	GHDC-A


Guides for Ladder

Expansion guides are used to secure ladder style trays, while guiding the tray during movement during thermal expansion. For expansion guide recommendations, please refer to NEMA VE-2.

Tray Type	Alum.	Zinc Plated	SS 304	SS 316	HDGAF
All Flange-In Ladder	AEXG-VL	SEXG-VL	4EXG-VL	6EXG-VL	GEXG-VL
All Flange-Out & I-Beam Husky Tray	AEXG-EL	SEXG-EL	4EXG-EL	6EXG-EL	GEXG-EL

***All part numbers are for 1 each.**

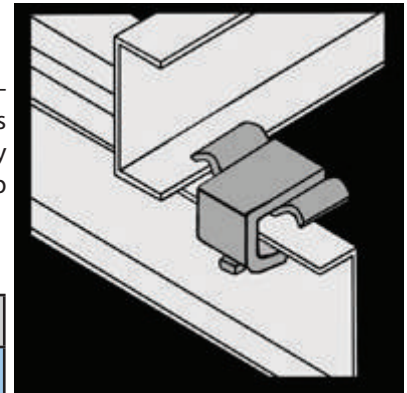


Expansion Guide

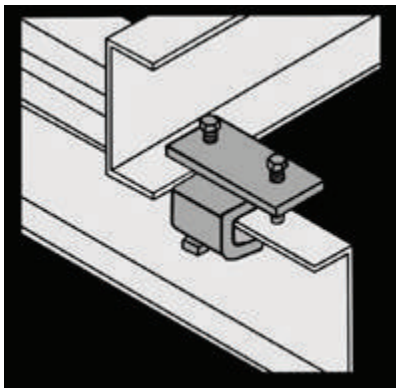
Hold Down/Expansion Guide for All Ladder Types

These special heavy duty tray hold down clamps and expansion guides are ideal for fastening tray to C-Channels and beams, such as those found on bridges. They are easy to install and reduce field labor costs since the beam clamp set screw eliminates the need to drill the C-Channel.

All Ladder	Zinc Plated	HDGAF
Hold Down Clamp	ZCC-HDC	GCC-HDC
Expansion Guide	ZCC-EXC	GCC-EXC



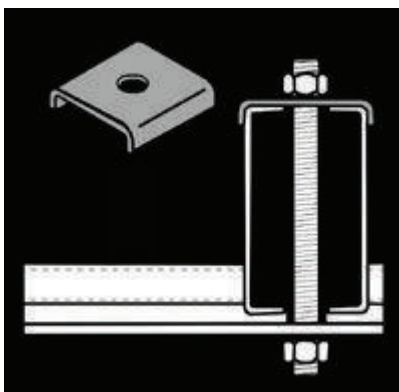
Hold Down



Hold Down/Expansion Guide for Flange-Out Ladder

These special heavy duty tray hold down clamps and expansion guides are ideal for fastening tray to C-Channels, such as those found on bridges. They are easy to install and reduce field labor costs since the beam clamp set screw eliminates the need to drill the C-Channel.

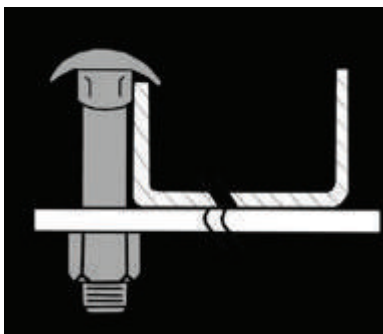
All Flange-Out Ladders	Zinc Plated	HDGAF
Hold Down Clamp	HP-514A-PW	GHP-514A-PW
Expansion Guide	HP-514A-PWO	GHP-514A-PWO



Double Hold Down Clips for Ladder and Trough

Double hold down clips allow two side by side trays to be fastened to the support with one clip and less hardware. It is also used as a double hanger. Use 1/2" hardware (Sold Separately).

Tray Top Flange Width	Alum.	Zinc Plated	SS 304	SS 316	HDGAF
3/4"	AHDC-2A	SHDC-2A	4HDC-2A	6HDC-2A	GHDC-2A
1"	AHDC-2P61	SHDC-2P61	4HDC-2P61	6HDC-2P61	GHDC-2P61
1-1/4"	AHDC-2FC	SHDC-2FC	4HDC-2FC	6HDC-2FC	GHDC-2FC
1-1/2"	AHDC-2CA	SHDC-2CA	4HDC-2CA	6HDC-2CA	GHDC-2CA
1-3/4"	AHDC-2C	SHDC-2C	4HDC-2C	6HDC-2C	GHDC-2C
2"	AHDC-2IMB	SHDC-2IMB	4HDC-2IMB	6HDC-2IMB	GHDC-2IMB

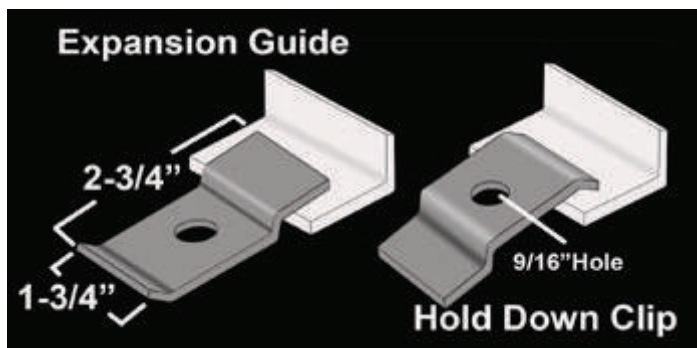


Hold Down Bolts for Channel

Special 3/8" bolts are used to fasten 4" & 6" wide Husky channels to channel hangers and other supports.

	Zinc Plated	HDGAF
Catalog Number	HB-10	GHB-10

***All part numbers are for 1 each.**



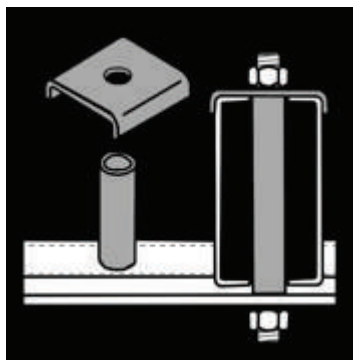
Heavy Duty Combination Hold Down Clip/ Expansion Guide for Flange-Out and I-Beam Style Tray **(NEW)**

These heavy duty Combination Hold Down Clips/Expansion Guides can be used in one orientation as a Hold Down Clip and flipped upside down to use as an Expansion Guide, eliminating the need to determine the exact number needed of each type before ordering. Hardware is not included.

Tray Type	Alum.	Zinc Plated	SS 304	SS 316	HDGAF
All Flange-Out & I-Beam	AHDEC	SHDEC	4HDEC	6HDEC	GHDEC

Expansion Guides for Double Ladder and Trough

These expansion guides are used to retain two side by side trays, while allowing tray movement due to thermal expansion. Use 1/2" hardware. (Sold Separately)



Tray	Alum.	Zinc Plated	SS 304	SS 316	HDGAF
HA	AG-2HA-EX	SG-2HA-EX	4G-2HA-EX	6G-2HA-EX	GSG-2HA-EX
NSH0,PSH0,ASH6	AG-2H-EX	SG-2H-EX	4G-2H-EX	6G-2H-EX	GSG-2H-EX
J2,B2	AG-2B2-EX	SG-2B2-EX	4G-2B2-EX	6G-2B2-EX	GSG-2B2-EX
NSJ0,PSJ0,ASJ6	AG-2B-EX	SG-2B-EX	4G-2B-EX	6G-2B-EX	GSG-2B-EX
JA,JB,BB	AG-2KB-EX	SG-2KB-EX	4G-2KB-EX	6G-2KB-EX	GSG-2KB-EX
KC,FC	AG-2FC-EX	SG-2FC-EX	4G-2FC-EX	6G-2FC-EX	GSG-2FC-EX
MB1,M61,P61,PB1	AG-2P61-EX	SG-2P61-EX	4G-2P61-EX	6G-2P61-EX	GSG-2P61-EX
YA2,CA2	AG-2CA-EX	SG-2CA-EX	4G-2CA-EX	6G-2CA-EX	GSG-2CA-EX
YD,CD	AG-2CD-EX	SG-2CD-EX	4G-2CD-EX	6G-2CD-EX	GSG-2CD-EX
MD4,PD4 NSMO,PSMO,ASM6,E1M	AG-2PD4-EX	SG-2PD4-EX	4G-2PD4-EX	6G-2PD4-EX	GSG-2PD4-EX
X,X1,X1M,E,E1,EA,XA,E1M	AG-2X-EX	SG-2X-EX	4G-2X-EX	6G-2X-EX	GSG-2X-EX
XB,XC,XD,EB,EC,ED	AG-2EB-EX	SG-2EB-EX	4G-2EB-EX	6G-2EB-EX	GSG-2EB-EX
X7,E7,X71,E71, XA7,XB7,XC7,EB7,EC7	AG-2E71-EX	SG-2E71-EX	4G-2E71-EX	6G-2E71-EX	GSG-2E71-EX
MD7,MD74,PD7,PD74	AG-2MD7-EX	SG-2MD7-EX	4G-2MD7-EX	6G-2MD7-EX	GSG-2MD7-EX

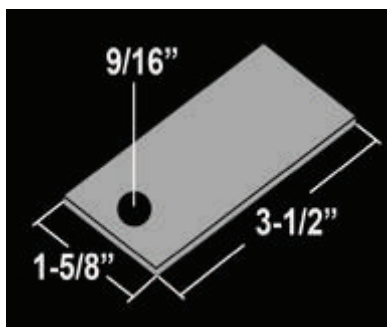
12-SUPPORT MATERIAL



Heavy Duty Hold Down Clamp **(NEW)**

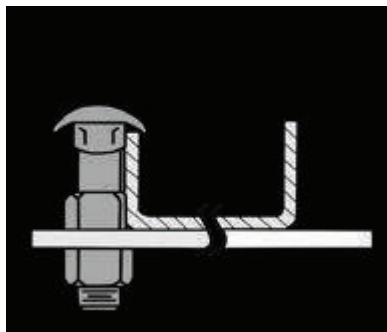
These 3" wide heavy duty hold down clamps can be used to attach the cable tray to most surfaces by field drilling holes into the side of the tray and the mounting surface. Hardware for attaching to tray is included.

Alum.	Zinc Plated	SS 304	SS 316	HDGAF
AHDC-HV	SHDC-HV	4HDC-HV	6HDC-HV	GHDC-HV

**Nylon Pad**

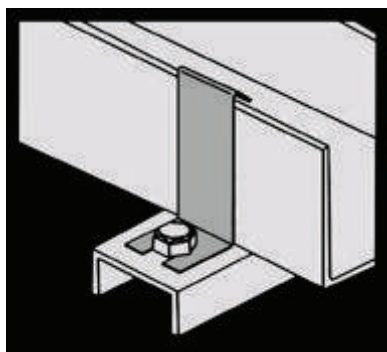
Used for insulating hold-downs and for insulating tray.

Catalog # **INSL-VE**

**Expansion Guide Bolts for Channel**

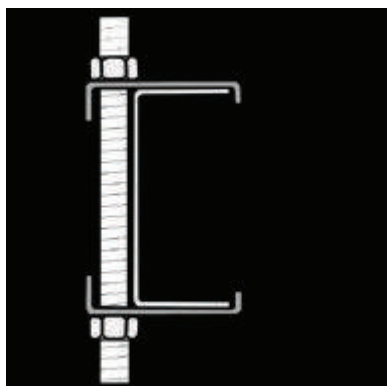
These 3/8" guide bolts are used to retain 4" and 6" wide Husky Channel to the support, while allowing thermal expansion movement.

	Zinc Plated	HDGAF
Catalog No.	SGB-GU	GSGB-GU

**Hold Down Clips/Expansion Guides for Channel**

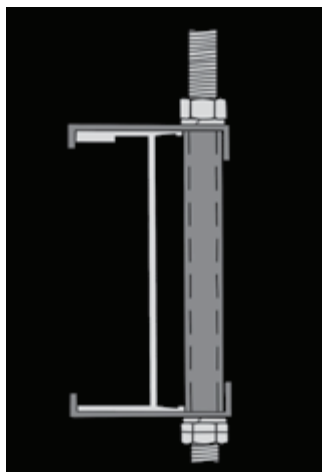
These clips hold 4" and 6" wide Husky Channel to a lower support channel or bracket and can be used as an expansion guide with a W-5 washer placed under the base. (W-5 washers sold separately) Use 3/8" hardware.

Tray Type	Mill Galv.	SS 304	SS 316	HDGAF
All Channel	SHDC-GU	4HDC-GU	6HDC-GU	GHDC-GU

**Hanger Clip Set for Flange-In Trays**

The two-piece Husky Trough and Husky Ladder hanger is used in conjunction with the 1/2" hanger rod and eliminates the need for separate horizontal support members and hold down clips. (Part # is for one top and bottom set—not for use on Husky way).

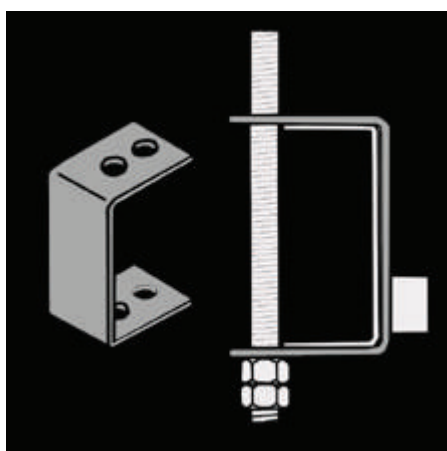
Tray Type	Zinc Plated	SS 304	SS 316	HDGAF
JA,JB,MD4,MD7,MD74	SHC-M	4HC-M	6HC-M	GSHC-M
MB1,M61	SHC-100	4HC-100	6HC-100	GSHC-100
HA,J2,KC	SHC-125	4HC-125	6HC-125	GSHC-125
MC	SHC-MC	4HC-MC	6HC-MC	GSHC-MC
YA2	SHC-YA	4HC-YA	6HC-YA	GSHC-YA
XA	SHC-XA	4HC-XA	6HC-XA	GSHC-XA
XB,XC	SHC-XB	4HC-XB	6HC-XB	GSHC-XB
XA7,X,X1,XC7,XD,XB7,YD, X1M,X71,X7,L1,D1	SHC-YX	4HC-YX	6HC-YX	GSHC-YX



I-Beam Tray Hanger

Tray hanger for 1-1/4" and 2" flange I-Beam Trays (not for I6 & I8). Includes top and bottom clamps and spacer. Use with 1/2" hanger rod. Hanger rod, washers and hex nuts purchased separately. Sold as each.

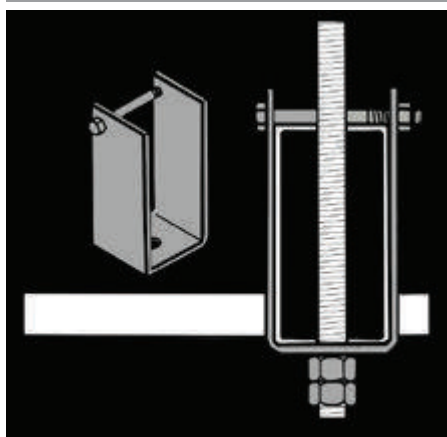
Tray Type	Zinc Plated	SS 304	SS 316	HDGAF
IJA,IJB,IJC	SHC-IJA	4HC-IJA	6HC-IJA	GSHC-IJA
IYA,IYB,IYC	SHC-IYC	4HC-IYC	6HC-IYC	GSHC-IYC
IMB,IMC,IMD,IXA,IXB,IXC,IXD	SHC-IXB	4HC-IXB	6HC-IXB	GSHC-IXB
IXD7	SHC-IXD7	4HC-IXD7	6HC-IXD7	GSHC-IXD7



Single Hanger Clips for Flange-Out Trays

Two inch wide single hanger clips are used with the 1/2" hanger rod to hold Husky Ladder firmly in place. Sold as each.

Tray Type	Alum.	Zinc Plated	SS 304	SS 316	HDGAF
B2	---	SHC-CB	4HC-CB	6HC-CB	GSHC-CB
BB	AHC-KB	SHC-KB	4HC-KB	6HC-KB	GSHC-KB
FC	AHC-FC	SHC-FC	4HC-FC	6HC-FC	GSHC-FC
CA2	AHC-CA2	SHC-CA	4HC-CA	6HC-CA	GSHC-CA
CD	---	SHC-CD	4HC-CD	6HC-CD	GSHC-CD
PD4,PC,E,EA,E1,E1M	AHC-EP	SHC-EP	4HC-EP	6HC-EP	GSHC-EP
PB1,P61	AHC-P61	SHC-P61	4HC-P61	6HC-P61	GSHC-P61
EB,EC,ED	AHC-EB	SHC-EB	4HC-EB	6HC-EB	GSHC-EB
E7,E71,EB7,EC7	AHC-E71	SHC-E71	4HC-E71	6HC-E71	GSHC-E71
PD7,PD74	----	SHC-PD7	4HC-PD7	6HC-PD7	GSHC-MD7



Double Hanger Clips

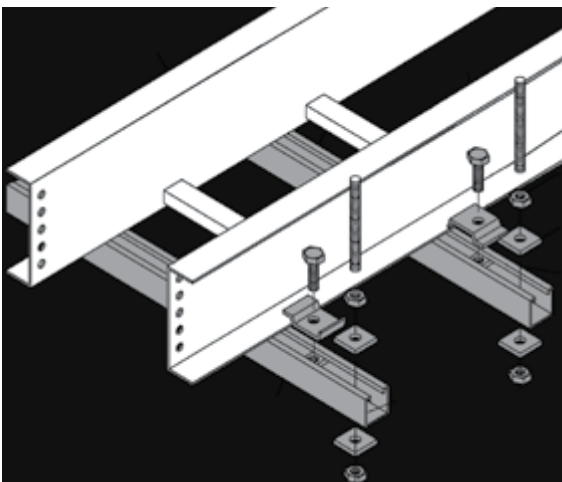
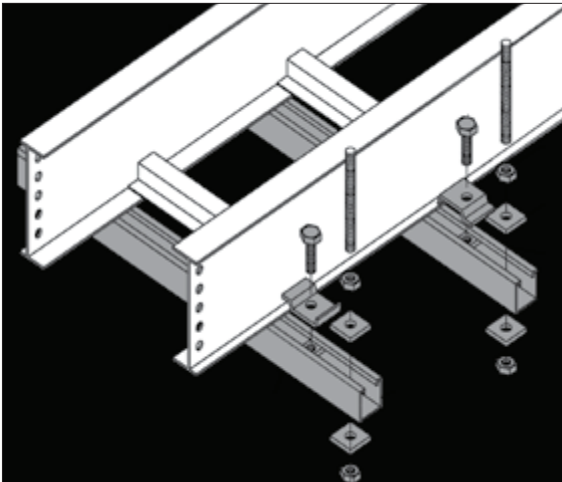
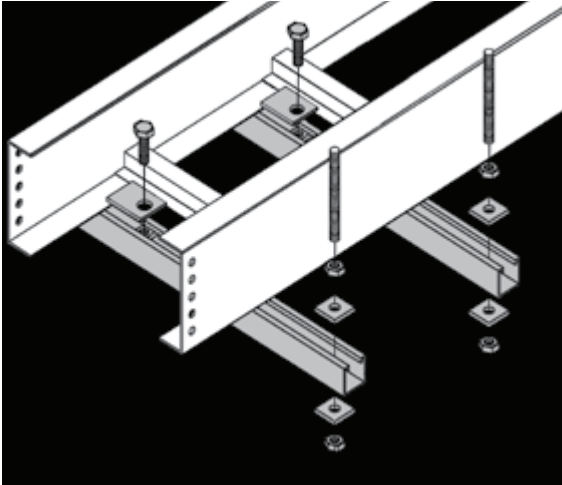
Double hanger clips are used in the center of two side by side ladders and help with a 1/2" hanger rod. The top bolt is included with each unit. Sold as each.

Tray Type	Alum.	Zinc Plated	SS 304	SS 316	HDGAF
B2	---	SHC-2B2	4HC-2B2	6HC-2B2	GSHC-2B2
FC	---	SHC-2FC	4HC-2FC	6HC-2FC	GSHC-2FC
BB	AHC-2KB	SHC-2KB	4HC-2KB	6HC-2KB	GSHC-2KB
CA2	AHC-2CA2	SHC-2CA	4HC-2CA	6HC-2CA	GSHC-2CA
CD	---	SHC-2CD	4HC-2CD	6HC-2CD	GSHC-2CD
PC	AHC-2P	SHC-2P	4HC-2P	6HC-2P	GSHC-2P
PB1,P61	AHC-2P61	SHC-2P61	4HC-2P61	6HC-2P61	GSHC-2P61
E,EA,E1,E1M	AHC-2E	SHC-2E	4HC-2E	6HC-2E	GSHC-2E
EB,EC,ED	AHC-2EB	SHC-2EB	4HC-2EB	6HC-2EB	GSHC-2EB
E7,E71,EB7,EC7	AHC-2E71	SHC-2E71	4HC-2E71	6HC-2E71	GSHC-2E71
PD7,PD74	---	SHC-2PD7	4HC-2PD7	6HC-2PD7	GSHC-2PD7

Trapeze Support Kits

These trapeze support kits include all the hardware needed to attach various types of trays to 1/2" threaded hanging rods (rods not included). Included with each kit is the strut, hold down clips with spring nuts and bolts, and washers and nuts needed to attach to threaded rod. There is also an option to use double strut, which is one piece of strut welded to the bottom of another for added strength.

Hanger Rods Not Included



Example: TSHP200- (insert tray width)-1

FLANGE-IN TRAPEZE SUPPORT

Single Strut	Double Strut	Trapeze Length
TSHP200-6-1	TSHP201-6-1	11"
TSHP200-9-1	TSHP201-9-1	14"
TSHP200-12-1	TSHP201-12-1	17"
TSHP200-18-1	TSHP201-18-1	23"
TSHP200-24-1	TSHP201-24-1	29"
TSHP200-30-1	TSHP201-30-1	35"
TSHP200-36-1	TSHP201-36-1	41"
TSHP200-42-1	TSHP201-42-1	47"
TSHP200-48-1	TSHP201-48-1	53"

I-BEAM TRAPEZE SUPPORT (EXCEPT I6 & I8)

Single Strut	Double Strut	Trapeze Length
TSHP200-6-2	TSHP201-6-2	16"
TSHP200-9-2	TSHP201-9-2	20"
TSHP200-12-2	TSHP201-12-2	22"
TSHP200-18-2	TSHP201-18-2	28"
TSHP200-24-2	TSHP201-24-2	34"
TSHP200-30-2	TSHP201-30-2	40"
TSHP200-36-2	TSHP201-36-2	46"
TSHP200-42-2	TSHP201-42-2	52"
TSHP200-48-2	TSHP201-48-2	58"

FLANGE-OUT TRAPEZE SUPPORT

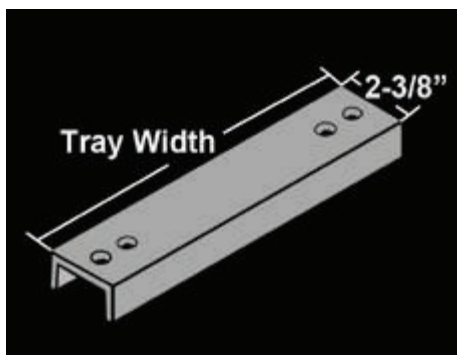
Single Strut	Double Strut	Trapeze Length
TSHP200-6-3	TSHP201-6-3	18"
TSHP200-9-3	TSHP201-9-3	22"
TSHP200-12-3	TSHP201-12-3	24"
TSHP200-18-3	TSHP201-18-3	30"
TSHP200-24-3	TSHP201-24-3	36"
TSHP200-30-3	TSHP201-30-3	42"
TSHP200-36-3	TSHP201-36-3	48"
TSHP200-42-3	TSHP201-42-3	54"
TSHP200-48-3	TSHP201-48-3	60"



Center Support

Center Support Channel is used with 1/2" hanger rod (not included). Trough style trays will require drilling holes for hanger rod to pass through.
() = insert width

Tray Type	Aluminum	HDGAF	SS 316
Ladder			
All Flange-In	VACS-()	VSCS-()	6VSCS-()
All Flange-Out	EACS-()	ESCS-()	6ESCS-()
Husky Trough			
HA	--	VSCS-()-H	6VSCS-()-H
J2	--	VSCS-()-J	6VSCS-()-J
JA,JB,KC,YA,MD7,MD74	VACS-()-K	VSCS-()-K	6VSCS-()-K
MD4,M61,MC,MB1	VACS-()-M	VSCS-()-M	6VSCS-()-M

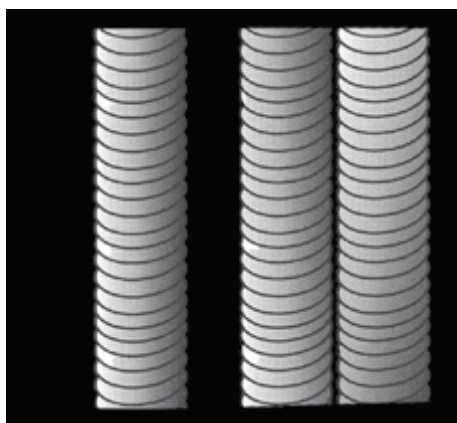


Trapeze Support Channels

Channels are used with 1/2" hanger rods (not included) to support ladder style trays where hanger clips cannot be utilized and for troughs with or without hold-down clips. When used with flange-in style tray, only HB-2, JB-2, etc. style hold-down clips can be used.

Tray Width	Aluminum	HDGAF	SS304	SS316
36"	ASC-36	SSC-36	4SC-36	6SC-36
30"	ASC-30	SSC-30	4SC-30	6SC-30
24"	ASC-24	SSC-24	4SC-24	6SC-24
18"	ASC-18	SSC-18	4SC-18	6SC-18
12"	ASC-12	SSC-12	4SC-12	6SC-12
9"	ASC-9	SSC-9	4SC-9	6SC-9
6"	ASC-6	SSC-6	4SC-6	6SC-6

Hanger Rods



1/2" diameter, 13 threads per inch hanger rods can be used with all tray support channels, angles and hanger clips. They have continuous threads and are furnished with 4 (N-12) nuts, 2 (W-9) lock-washers and 2 (W-12) flat washers.

Maximum allowable load:

Use for design, 1100 lbs., in combination with all standard suspension fittings, hanger clips, and couplings normally used. The safe load is much higher.

Item	Plated Steel	Stainless 316
10'0" Hanger Rod	HR-120G	6HR-120G
5'0" Hanger Rod	HR-60G	6HR-60G
2'-6" Hanger Rod	HR-30G	6HR-30G
Extra Hex Nuts	N-12	N-12-6S
Extra Lock Washers	W-9	W-9-6S
Extra Flat Washers	W-12	W-12-6S



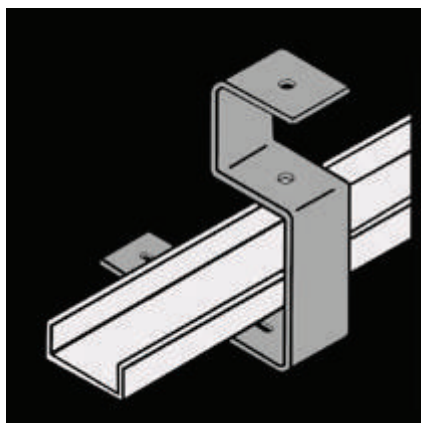
Trapeze Support Angles

Angles are continuously slotted to hold down Husky Trough using HB-1 bolts, and can be used to support all tray types with 1/2" hanger rod suspended from overhead.

Maximum allowable load:

Will safely support any loaded tray of the designated width within the load limits of the hanger rod.

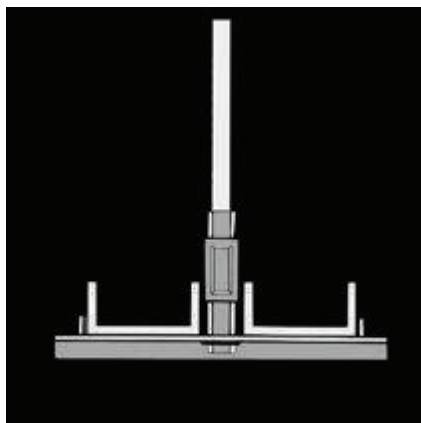
Tray Width	HDGAF
36"	STSA-36
30"	STSA-30
24"	STSA-24
18"	STSA-18
12"	STSA-12
9"	STSA-9
6"	STSA-6



Single Channel Hangers

Single channel hangers are used to support single 4" or 6" wide Husky Channels from 1/2" hanger rod. The bottom support member, on which the channel rests, is drilled to accommodate HB-10 hold-down bolts, or SGB-GU expansion guide bolts.

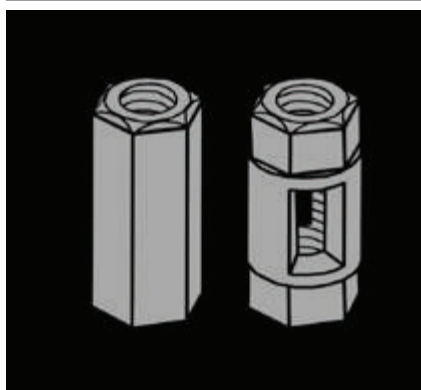
Channel Type	HDGAF	SS 304	SS 316
4",6"	SH-GU	4SH-GU	6SH-GU



Double Channel Hangers

Double hangers support double, 4" or 6" wide Husky Channels from 1/2" hanger rods. The support member, on which the channel rests, is drilled to accommodate HB-10 hold-down bolts, or SGB-GU expansion guide bolts.

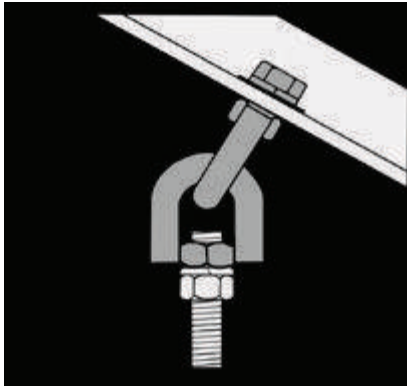
Channel Type	HDGAF	SS 304	SS 316
4"	SH-2G4	4SH-2G4	6SH-2G4
6"	SH-2G6	4SH-2G6	6SH-2G6



Hanger Rod Couplings

Couplings are used to connect hanger rods when lengths of more than 120" are encountered or to connect rods between trays that are hung one over the other. They also reduce field labor costs by extending new or existing hanger rods to support additional trays.

Item	Plated	SS 304	SS 316
1/2" Steel w/o Window	HRC	4HRC	6HRC
1/2" Malleable Iron with Window	HRC-G	--	--



Swivel Joints

Swivel joints allow 1/2" hanger rods to swing from an inclined clamp. They are furnished with or without a 1 inch stud assembly.

Item	Plated	SS 304	SS 316
Swivel Joint Only	SJ	4SJ	6SJ
Swivel Joint With Stud	SJS	4SJS	6SJS

Maximum allowable load:
1500 lbs.



Beam Clamps

Beam clamps have 1/2" holes to attach hanger rods to a beam flange or to support channels. Furnished in unfinished iron.

Maximum allowable load:
1000 lbs.

Flange Thickness	Catalog No.
7/8"	SC-503
2"	SC-508

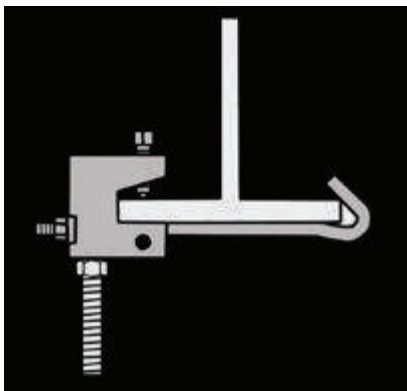


Beam C-Clamps

C-Clamps allow for the direct support of hanger rods on I-beams, wide flange beam sections and angles and are supplied in unfinished iron.

Maximum allowable load:
400 lbs.

Catalog No.
GC

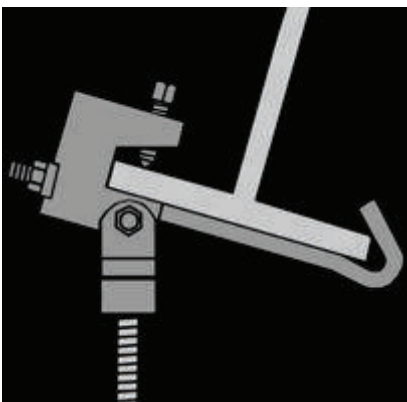


I-Beam Clamp

This wide-flanged clamp is furnished with or without a hook bolt in lengths to accommodate 6" through 12" wide beams up to 3/4" thick.

Maximum allowable load:
300 lbs.

Item	Plated Steel	SS 316
Clamp Only	PS-2622	6PS-2622
Clamp w/Hook Bolt Less than 6"	PS-2622-6	6PS-2622-6
6"-10"	PS-2622-10	6PS-2622-10
10"-12"	PS-2622-12	6PS-2622-12

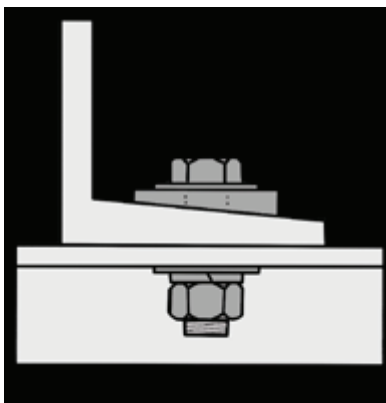


I-Beam Clamp w/Swivel

This is standard I-Beam Clamp with a hook bolt and swivel clevis.

Maximum allowable load:
300 lbs.

Item	Plated Steel	SS 316
Clamp Only	PS-2622SJ	6PS-2622SJ
Clamp w/Hook Bolt Less than 6"	PS-2622SJ-6	6PS-2622SJ-6
6"-10"	PS-2622SJ-10	6PS-2622SJ-10
10"-12"	PS-2622SJ-12	6PS-2622SJ-12

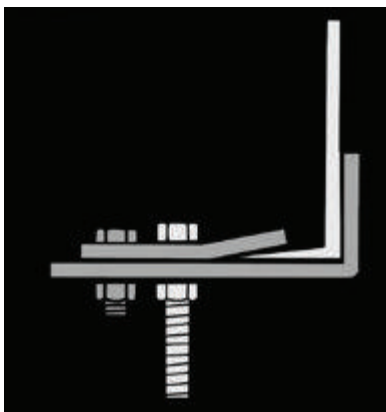


Bevel Washers

The standard size is 1-1/4" square with a 1/2" bevel and a 9/16" hole. Bolt and nut not included.

Catalog No.

W-11



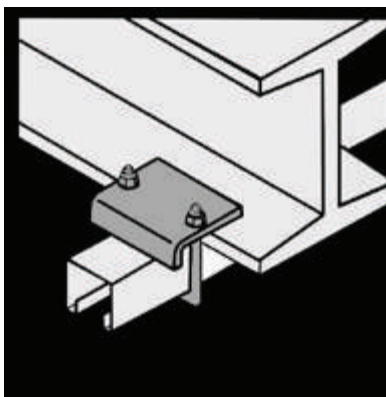
Channel Clamps

Channel clamp assemblies can be used on all American Standard channels with a flange width of 3-1/4" or less. They are furnished in zinc plated steel with or without a swivel joint.

Maximum allowable load:

500 lbs. with a safety factor of 5

Item	Zinc Plated Steel
Clamp Only	HP-177
Clamp w/Swivel Joint	HP-177SJ



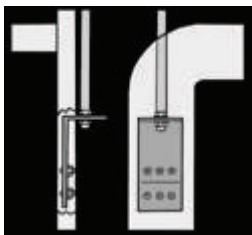
HP Channel Clamps

HP single and back to back strut type support channels are attached to structural beams with a 0.8" maximum flange thickness. Clamps are furnished with the required hardware.

Maximum allowable load:

1,275 lbs. with a safety factor of 5

Channel Type	Zinc Plated Steel
HP-200 Single Strut	HP-265A
HP-201 Double Strut	HP-265D



Vertical Hangers For Tray

TRAY	HDGAF	SS 316
All Tray Except I6,I8,8",10"	SH-VU	6SH-VU
I6,8",10"	SH-VU-I6	6SH-VU-I6
I8	SH-VU-I8	6SH-VU-I8

Vertical hangers support single-type vertical ladders or troughs from 1/2" hanger rods. Each is furnished with the required mounting hardware. The hanger is generally used to splice the vertical tray and VO90 together and support the tray. (Hanger rod not included)

Maximum allowable load:

250 lbs. per unit

Vertical Hangers For Channel

HDGAF	SH-VGU
SS 316	6SH-VGU



This hanger assembly for vertical channels accommodates either 4" or 6" wide channels and is furnished with all necessary hardware, except for the top 1/2" hanger rod to the building steel.

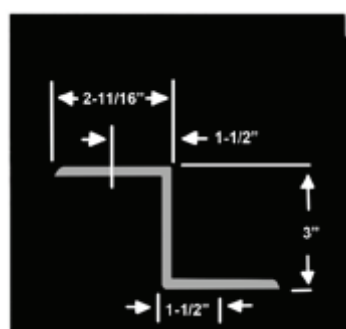
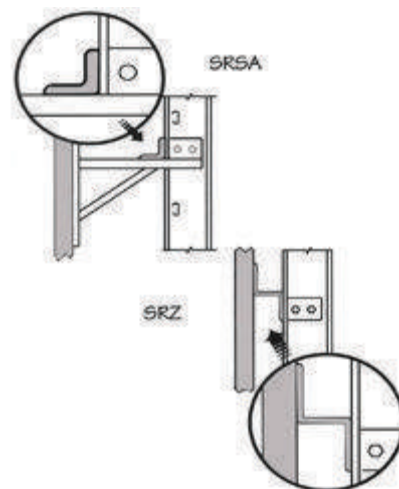
Maximum allowable load:

200 lbs.

There is a wide variation of vertical run supports possible, depending on the load, support spacing and distance of the run from the wall or supporting structure. It is recommended that support spacing for vertical runs be no less than six feet and no more than twelve feet. Brackets are available for spacing of 3, 12, 24 and 36 inches from the wall to accommodate the various radii bends that may be entering or leaving the supporting wall.

Vertical runs usually consist of either a Z-Bracket for a 3 inch distance from the wall only, or a pair of brackets with the necessary support angles and clips to fasten the tray to the support. Here are two typical installations:

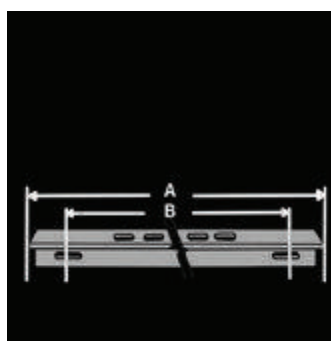
In addition to wall brackets, the proper support angle and number of bracket angle clips for the tray to be used must be determined. For each application, the actual load per bracket must be checked against the maximum allowable load on the bracket.



Z-Brackets

Z-Brackets support vertical runs at a distance of 3 inches from the wall. They have a slot pattern similar to that of bracket angles and are made from standard 7 gauge Z-shaped HDGAF steel.

Note: A & B dimension locations shown on bracket angle.

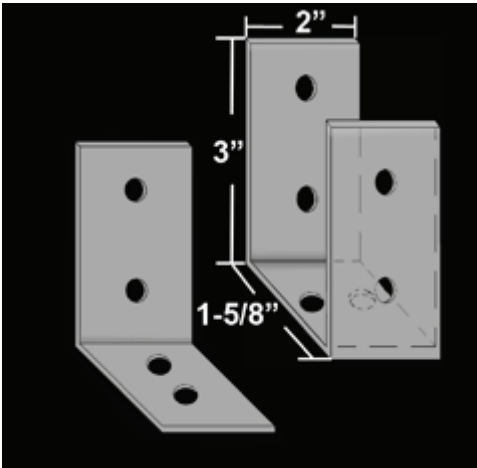


Bracket Angles

Bracket angles connect two wall brackets, which then serve as a support for vertical runs. Cable trays are then bolted to bracket angles with support angle clips. Bracket angles have a series of slots to allow the attachment of various types of tray of the same width to the same bracket angle. Fabricated from hot dip galvanized steel.

Tray Width	A	B	HDGAF
Single Z-Bracket			
30 inch	44	41-1/2	SRZ-30
24 inch	38	35-1/2	SRZ-24
18 inch	32	29-1/2	SRZ-18
12 inch	26	23-1/2	SRZ-12
9 inch	23	20-1/2	SRZ-9
6 inch	18	15-1/2	SRZ-6
Double Z-Bracket			
30 inch	74	71-1/2	DRZ-30
24 inch	62	59-1/2	DRZ-24
18 inch	50	47-1/2	DRZ-18
12 inch	38	35-1/2	DRZ-12
9 inch	32	29-1/2	DRZ-9
6 inch	26	23-1/2	DRZ-6
Double Z-Bracket (for U-type support angle clips)			
30 inch	76	73-1/2	DDZ-30
24 inch	64	61-1/2	DDZ-24
18 inch	52	49-1/2	DDZ-18
12 inch	40	37-1/2	DDZ-12
9 inch	36	31-1/2	DDZ-9
6 inch	33	25-1/2	DDZ-6

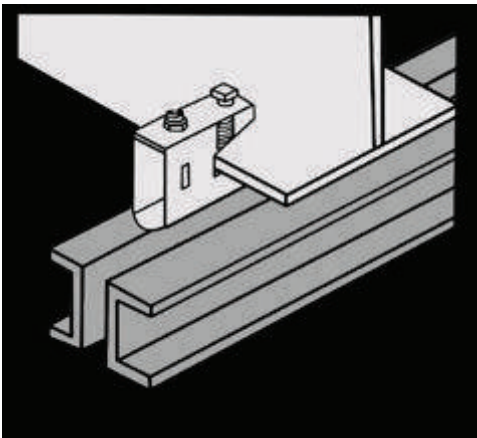
Tray Width	A	B	HDGAF
Single Bracket Angles			
30 inch	44	41-1/2	SRSA-30
24 inch	38	35-1/2	SRSA-24
18 inch	32	29-1/2	SRSA-18
12 inch	26	23-1/2	SRSA-12
9 inch	23	20-1/2	SRSA-9
6 inch	18	15-1/2	SRSA-6
Double Bracket Angles			
30 inch	74	71-1/2	DRSA-30
24 inch	62	59-1/2	DRSA-24
18 inch	50	47-1/2	DRSA-18
12 inch	38	35-1/2	DRSA-12
9 inch	32	29-1/2	DRSA-9
6 inch	26	23-1/2	DRSA-6
Double Bracket Angles (for U-type support angle clips)			
30 inch	76	73-1/2	DDSA-30
24 inch	64	61-1/2	DDSA-24
18 inch	52	49-1/2	DDSA-18
12 inch	40	37-1/2	DDSA-12
9 inch	36	31-1/2	DDSA-9
6 inch	33	25-1/2	DDSA-6



Support Angle Clips

Support Angle clips fasten a cable tray to a bracket angle or Z-Bracket. They come in single or double configurations ("L" or "U") and are furnished with the required hardware.

Item	HDGAF	SS 304	SS 316
Single Angle Clip (L type)	BKSA-C	4BKSA-C	6BKSA-C
Double Angle Clip (U type)	BKSA-DC	4BKSA-DC	6BKSA-DC

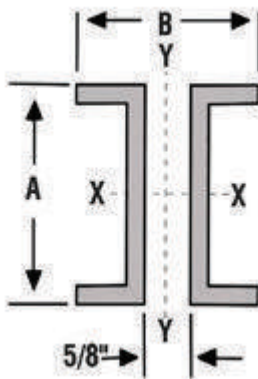


Spanner Channels

Four inch spanner channels are designed to span between beams up to 10 feet apart and give indirect support for 1/2" hanger rods from structural steel.

() = Insert Length in Inches

Item	HDGAF
Unfinished Steel	HP-904-()
HDGAF Steel	HP-904-()-G



Type	Area (in)	Wt/Ft (lbs)	X-Axis			Y-Axis			A	B
			I-in ⁴	S-in ³	R-in	I-in ⁴	S-in ³	R-in		
4 in	1.53	5.20	3.74	1.870	1.563	1.165	0.565	0.872	4	4-1/8



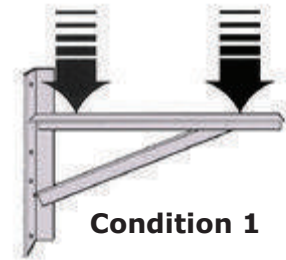
MP Husky offers a variety of wall brackets to support trays and channels from any wall or vertical support. The design of the brackets takes into consideration whether the trays or channels will be supported singly or two in parallel, on horizontal or vertical runs, the distance from the wall, bend radii, etc.

The allowable load of each type of bracket is given below:

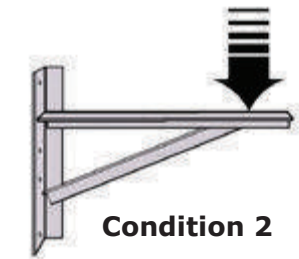
Condition 1—Where the load is applied at two points (ladders or troughs apart in width).

Condition 2—Where the load is applied as a single concentrated load at the end of the bracket (as when supporting vertical runs).

A minimum safety factor of 2 against yield has been used in determining the maximum allowable load. All calculations have been confirmed by testing. Brackets are most commonly used for single or double horizontal runs.



Condition 1



Condition 2

Low Headroom Brackets

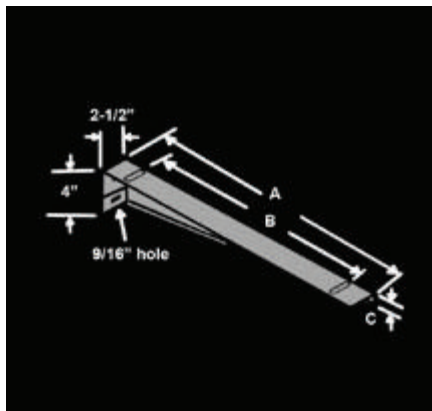
Low headroom brackets are designed to attach Husky Trough and Husky Flange-In Ladder to wall mounted strut type channel framing. Available in HDGAF.

Maximum allowable load:

Condition 1—500 lbs.

Condition 2—250 lbs.

A	B	C	HDGAF
25	21	1	VBK-24
19	15	1-3/4	VBK-18
13	9	2-1/2	VBK-12
10	6	2-13/16	VBK-9
7	3	3-3/16	VBK-6



12-SUPPORT
MATERIAL

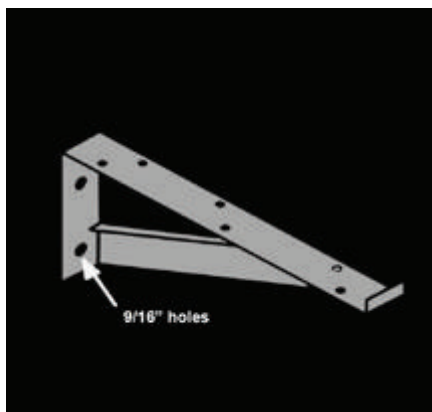
Channel Brackets

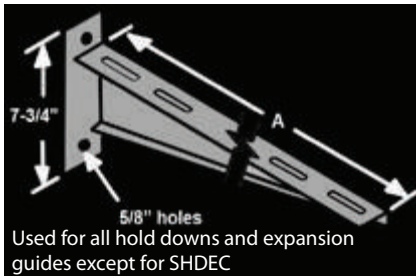
Channel brackets will accommodate single or double channel runs with pre-drilled holes for HB-10 Hold Down Bolts or SGB-GU expansion guides, purchased separately.

Maximum allowable load:

Twice the allowable load for the respective channel at a support spacing of 10 feet.

Item	HDGAF	SS 304	SS 316
Single for 4" Channel	SSBK-G	4SSBK-G	6SSBK-G
Double for 4" Channel	SDBK-G	4SDBK-G	6SDBK-G
Single for 6" Channel	SSBK-G6	4SSBK-G6	6SSBK-G6
Double for 6" Channel	SDBK-G6	4SDBK-G6	6SDBK-G6





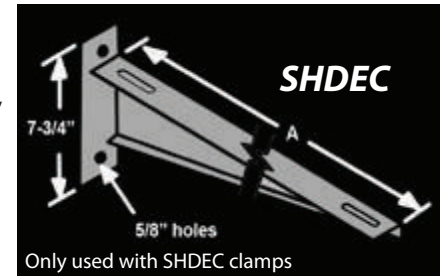
One Piece Universal Wall Bracket (NEW)

One piece, light duty brackets are made from 1/8" thick hot dip galvanized steel. Placing one bracket below another allows a minimum vertical spacing of cable trays of 8". Hold down clamps are not included.

Maximum allowable load:

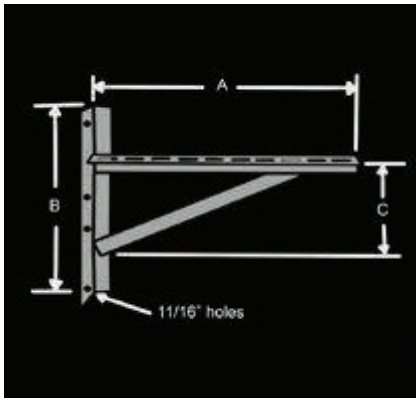
Condition 1—600 lbs.
Condition 2—300 lbs.

Tray Width	"A"	Catalog No.
24"	30.750"	WBK-24-U
18"	24.750"	WBK-18-U
12"	18.750"	WBK-12-U
9"	15.750"	WBK-9-U
6"	12.750"	WBK-6-U



Tray Width	"A"	Catalog No.
24"	32.625"	WBK-24-SHDEC
18"	26.625"	WBK-18-SHDEC
12"	20.625"	WBK-12-SHDEC
9"	17.625"	WBK-9-SHDEC
6"	14.625"	WBK-6-SHDEC

NOTE: SHDEC Clamps are only recommended for use with Flange-Out tray



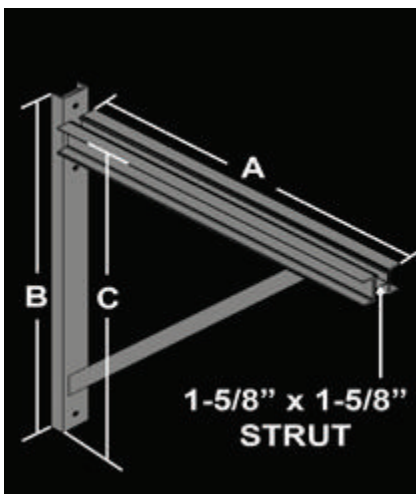
Medium Weight Brackets

Medium weight brackets are used primarily to support 2 ladders side by side or 2 ladders one over the other. They are made of 3/16" structural angle, welded and hot dip galvanized. The horizontal support angle is continuously slotted to increase the versatility of the bracket. Mounting holes are 9/16" x 1-1/2" and are spaced 2" on center.

Maximum allowable load:

Condition 1: 1200 lbs.
Condition 2: 600 lbs.

Type	A	B	C	Catalog No.
49"	49	31-1/2	25-1/2	WBK-49M
39"	39	26	20	WBK-39M
30"	31	21	15	WBK-30M
21"	21	18	12	WBK-21M



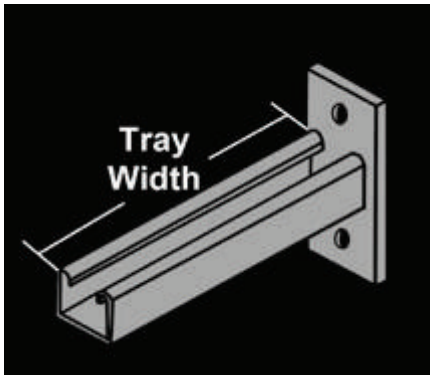
Heavy Weight Brackets

Heavy weight, channel type brackets are used to support long spans or multiple ladder or trough installations that exceed the load capacity of ordinary brackets. They are welded from 3" structural steel channel with 1-1/2" channel stiffening members and 1-5/8" x 1-5/8" strut and hot dip galvanized. To develop the full strength of the bracket, the (3) 1/2" diameter bolts for which the wall members are drilled must be used. Tray is attached to the bracket using spring nuts and hold down clips.

Maximum allowable load:

4,000 lbs. when applied as 2 equally concentrated loads, spaced at least 2'-4" apart on brackets five feet wide and under; or at least 4'-6" apart on brackets over five feet

Type	A	B	C	Catalog No.
66"	66	63	56	WBK-66C
60"	60	63	56	WBK-60C
54"	54	51	44	WBK-54C
48"	48	51	44	WBK-48C
42"	42	39	32	WBK-42C
36"	36	39	32	WBK-36C



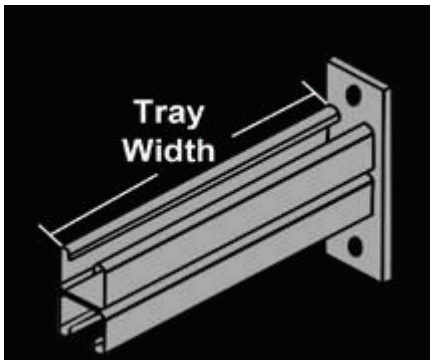
Single Strut Brackets

Designed primarily for use with strut framing, these brackets will work well in other applications. The uniform loads shown represent a 2.5 safety factor. Furnished in HDGAF steel.

Allowable concentrated end load:

One half the listed uniform load.

Tray Width	Uniform Load	Flange-In Flange-Out	Flange Out
24"	200lbs.	HP-S250-30	HP-S250-30
18"	500lbs.	HP-S250-24	HP-S250-24
12"	700lbs.	HP-S250-15	HP-S250-18
9"	700lbs.	HP-S250-12	HP-S250-15
6"	1000lbs.	HP-S250-9	HP-S250-12



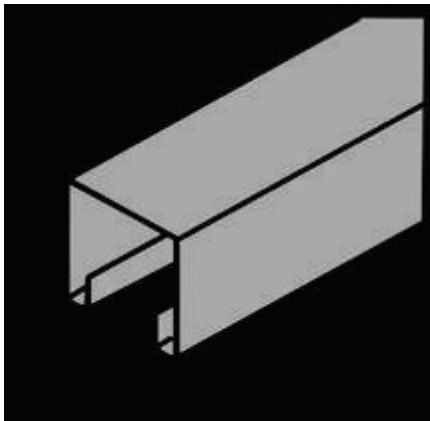
Double Strut Brackets

Similar to single strut brackets, but for wider trays and heavier loads. The uniform load shown represent a 2.5 safety factor. Furnished in HDGAF steel.

Allowable concentrated end load:

One half the listed uniform load.

Tray Width	Uniform Load	Flange-In Flange-Out	Flange Out
36"	400lbs.	HP-S251-42	HP-S251-42
30"	650lbs.	HP-S251-36	HP-S251-36
24"	800lbs.	HP-S251-30	HP-S251-30
18"	1000lbs.	HP-S251-24	HP-S251-24



Strut Type Support Channel

HP-type channels provide indirect support for hanger rods by spanning between available structural support beams and channels. The channel is supplied in 10' or 20' lengths and can easily be field cut to the length needed for use as a trapeze-type support. Available in single or double (back to back) configurations.

() = Length in Inches

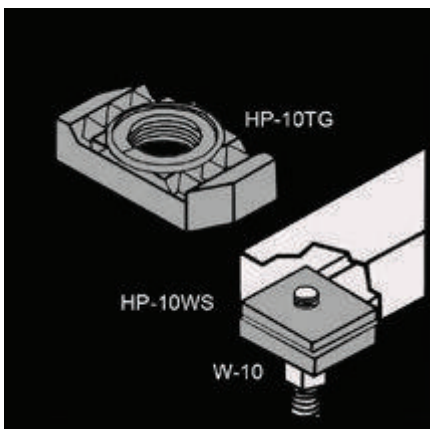
	Single	Double
Width	1-5/8"	1-5/8"
Depth	1-5/8"	3-1/4"
Weight/Foot	2 lbs.	4 lbs.
Black Steel	HP-200-()	HP-201-()
Mill Galvan.	HP-200-()-P	HP-201-()-P
HDGAF	HP-200-()-G	HP-201-()-G

add **-EH-** before length for 9/16" x 7/8" slotted holes, 2" on center

add **-H3-** before length for 9/16" round holes, 1-7/8" on center

EXAMPLE: **HP-200-EH-120-P**

Strut Hardware



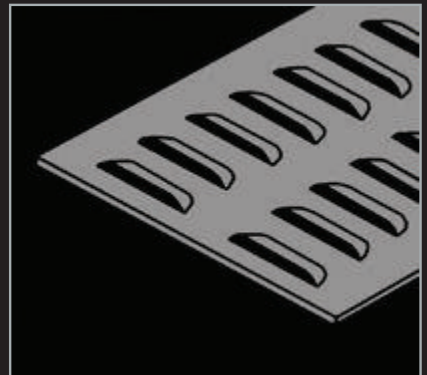
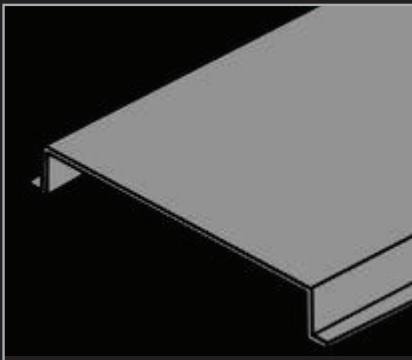
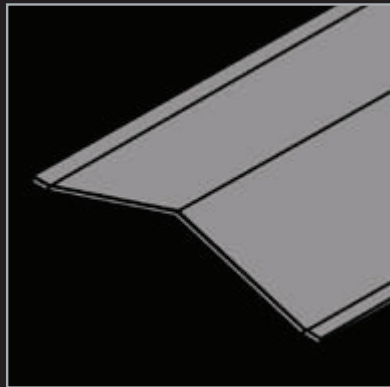
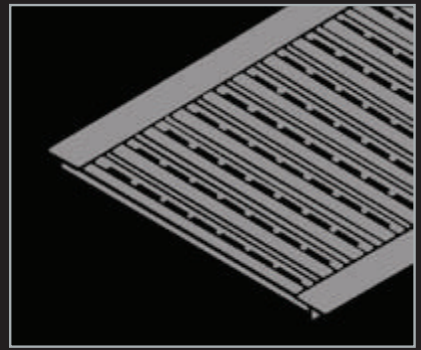
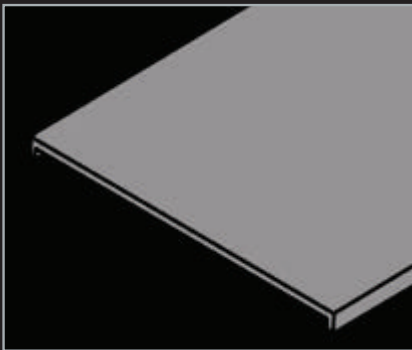
Item	Plated Steel	SS 304	SS 316
1/2" Spring Nut	HP-10TG	4HP-10TG	6HP-10TG
3/8" Spring Nut	HP-10TG-3/8	4HP-10TG-3/8	6HP-10TG-3/8
1/2" Square Blank Nut	HP-10WS	4HP-10WS	6HP-10WS
3/8" Square Blank Nut	HP-10WS-3/8	4HP-10WS-3/8	6HP-10WS-3/8
1-1/2" Square Washer, 9/16" Hole	W-10	W-10-4S	W-10-6S
1-1/2" Square Washer, 7/16" Hole	W-10-3/8	W-10-3/8-4S	W-10-3/8-6S
1/2" x 1-1/2" Hex Head Cap Screw	B-61	B-61-4S	B-61-6S
3/8" x 1-1/2" Hex Head Cap Screw	B-12	N/A	B-12-6S
1/2" Split Lock Washer	W-9	W-9-4S	W-9-6S
3/8" Split Lock Washer	W-17	N/A	W-17-6S
1/2" x 13 Hex Nut	N-12	N-12-4S	N-12-6S
3/8" x 16 Hex Nut	N-17	N/A	N-17-6S
1/2" Flat Washer	W-12	W-12-4S	W-12-6S
3/8" Flat Washer	W-24	W-24-4S	W-24-6S



MP HUSKY™
CABLE TRAY & CABLE BUS

Covers and Cover Fasteners

How to Order Covers.....	Pg. 165
Types of Covers	Pg. 166
Cover Fasteners.....	Pgs. 167-168
Stand-Off Clips and Support Blocks	Pg. 169



Covers

Cover Numbering System

MP Husky offers a wide variety of covers to provide protection for the cables contained within the system from sunlight, environmental elements, dirt, debris, and falling objects. All of the covers listed here are used for indoor as well as outdoor applications. Covers are fabricated from corrosion resistant aluminum, mill-galvanized steel, galvanized and 304 or 316 stainless steel. Although not recommended, covers can be supplied in HDGAF steel on request (some distortion may occur when dipping). Most covers are supplied in standard 12 foot lengths and are available in five or six foot lengths upon request. HDGAF covers are supplied in five or six foot lengths, and 18GA material is required.

Flat, Flanged and Corrugated Covers

Straight Sections

CS2F()-24-144							
C	S	2	F	()-	24-	144	Louvered
Indicates Cover	Material Type	Tray Type	Cover Type	Material Gauge	Width	Length (12ft)	-L at the end

Fittings

CS2F()-24H90-12						
C	S	2	F	()-	24H90-	12
Indicates Cover	Material Type	Tray Type	Cover Type	Material Gauge	Fitting Desig.	Radius

Hat Shaped or Peak Covers

COP-A2S()-W-144-15									
C	0	P-	A	2	S	()-	W-	144-	15
Indicates Cover	Cover Height	Cover Shape	Material Type	Tray Type	Cover Type	Thickness or Gauge	Width	Length	Degree of slope

Material Type

- (A) Aluminum
- (S) Mill-Galv Steel
- (G) HDGAF Steel
- (N) Galvanized
- (4) 304 Stainless
- (6) 316 Stainless

Tray Type

- (1) All Flange-In
- (2) 3/4" Flange-Out
- (3) 1-3/4" Flange-Out
- (4) 1-1/2" Flange-Out
- (5) 1-1/4" Flange-Out
- (6) 1/2" Flange out
- (7) 1" Flange out
- (G) AG & SG Channel

Cover Type

- Flat, Flanged & Corrugated**
- (C) Corrugated (non-ventilated)
- (V) Corrugated (ventilated)
- (S) Flat (non-ventilated)
- (F) Flat Flanged (non ventilated)
- Hat Shaped & Peaked**
- (S) Flat Solid (non-flanged)
- (F) Flanged

Material Thickness

- Standards are:**
- 22 Gauge Non-corrugated Steel
- .040" Non-corrugated Aluminum
- () Insert Optional Cover Gauge for Non-corrugated Covers**
- (2) 22 Gauge Standard Steel
- (0) 20 Gauge Steel (Optional)
- (8) 18 Gauge Steel (Optional)
- (6) 16 Gauge Steel or .063" Aluminum (Optional)

Cover Shape

Hat Shaped

- (S) Solid Top (non-ventilated)
- (V) Corrugated (Ventilated)

Peaked

- (P) Peaked (non-ventilated)

Cover Height

Hat Shaped

- (2) 2" High
- (4) 4" High

Peaked

- (0) 1/2" High Peak (If Degree of slope is omitted) By Degree if included

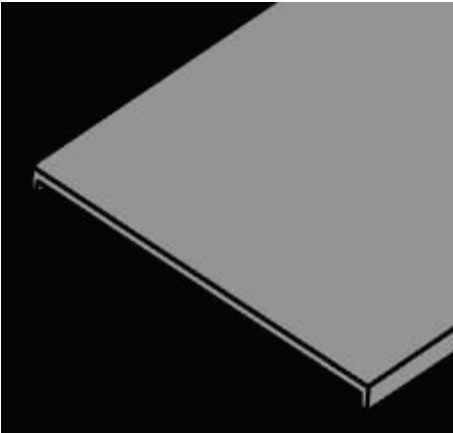
Length

- (144) 12 Ft Length
- (120) 10 Ft Length
- (72) 6 Ft Length
- (60) 5 Ft Length

For Louvered Flat, Flat Flanged and Hat-Shaped covers, add (-L) at the end of the catalog number on straights only.
Example: CA1F-24-144-L

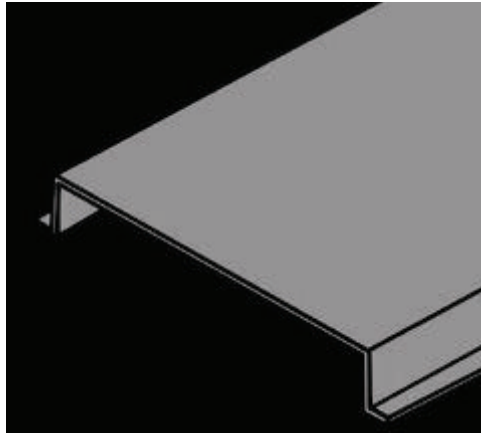
CAGF Aluminum Channel Cover
CSGF2 Steel Channel Cover

Types of Covers



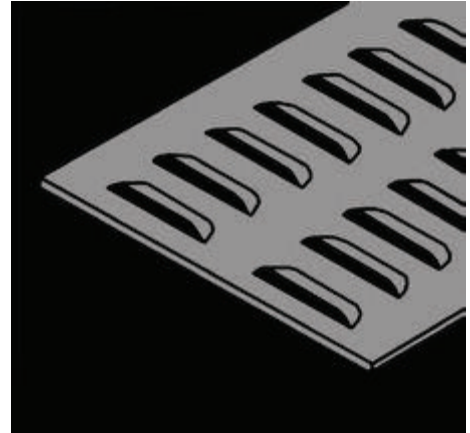
Flat and Flat Flanged

Flat covers are economical and available for all straight sections and fittings. These covers are available flat without flanges or flat with 3/8" flanges for Husky Trough, Husky Ladder, and Husky Way. Flat flanged covers should be used on all 4" and 6" wide channel applications requiring covers. Flat flanged shown.



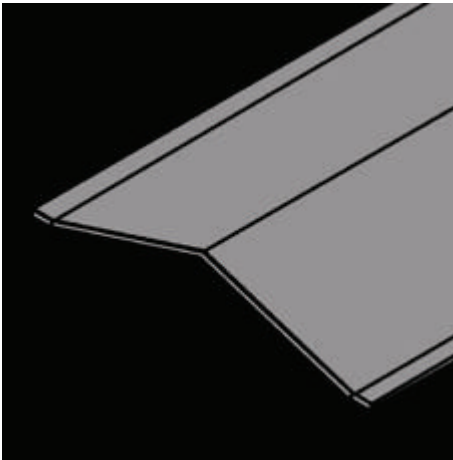
Hat-Shaped

Hat-shaped covers are designed to protect installations where the cables extend above the upper flanges of the tray. Hat-shaped covers are available with a flat solid top or a corrugated ventilated top and in 2" or 4" height. Non-ventilated shown.



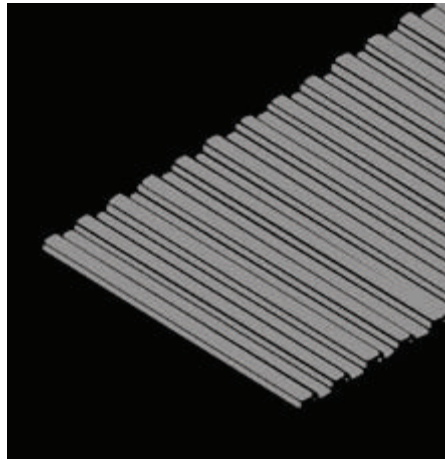
Louvered

Louvered covers are available for all straight sections and are available as Flat, Flat Flanged, or Hat Shaped. Flat Solid shown. (Fitting covers will be non-ventilated)



Peaked

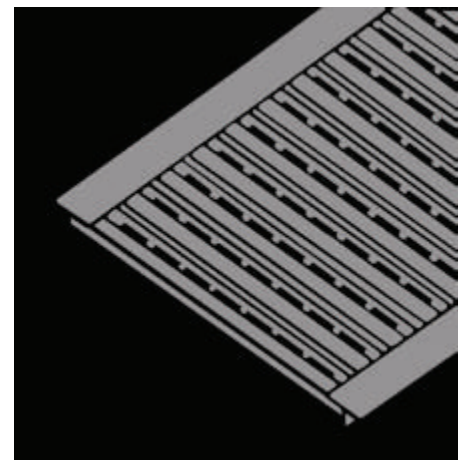
Peaked covers are available for straight sections only and are generally used to deflect falling objects or to prevent the accumulation of snow or other debris. Standard peak height is 1/2", however, higher peaks are available upon request. Non-flanged shown.



Corrugated

Corrugated covers are made of ventilated or non-ventilated corrugated sheets. Corrugated covers are rigid, lightweight and will readily form to vertical fittings, with the exception of Husky Ladder Flange-Out style. All covers for horizontal fittings are made of non-ventilated (solid) flat sheets without a flange.

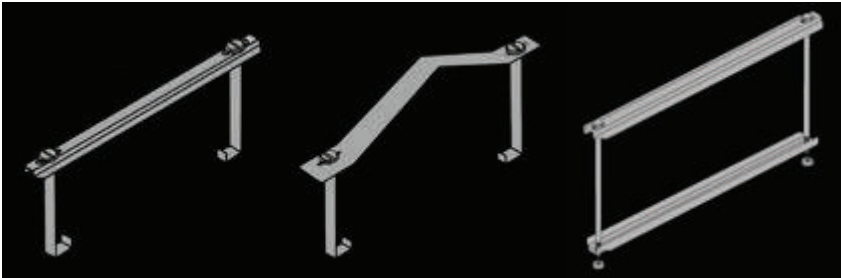
Space does not permit an illustration of every type of cover variation. For instance, corrugated covers are available either ventilated or non-ventilated in flat or hat-shaped configurations. If in doubt about the cover best suited to your application, please consult the factory.



Ventilated

Cover Fasteners

A complete line of fastening devices is available for both indoor and outdoor applications. Local conditions will dictate the selection of the proper fastening device. Cover fasteners must be ordered separately for the application and spacing desired. Clips can be used indoors, but clamps or screws should be used outdoors. The following quantities can be used for most conditions:



Flat Example: (material prefix)-(width)-HA

Peaked Example: (material prefix)-(peak height)P-(width)-HA

Hold Down Clamps for Husky Ladder and Husky Trough

These heavy duty cover fasteners are used for covers installed in high wind areas. They are furnished with necessary hardware. Clamps are not recommended for hat-shaped covers.

Preferred for outdoor use.

Bar Clamp Style:

- 3 per 10' or 12' straight cover
- 2 min. per horizontal or vertical 90° fitting
- 3 per Tee fitting
- 4 per Cross fitting

For all covers, insert the following material prefixes for the type of material you would like to order:

HC = Mill Galvanized^(shown)

AHC = Aluminum

6HC = Stainless Steel 316

4HC = Stainless Steel 304

GHC = HDGAF

Example:

For 24" wide, HDGAF, "HA" type tray, the cover clamp part number would be:

GHC-24-HA

13-COVERS

Tray Type	Flat Covers	Peaked Covers	Double Bar Covers
HA	(HC)-()-HA	(HC)-()P-()-HA	2(HC)-()-HA
J2	(HC)-()-J2	(HC)-()P-()-J2	2(HC)-()-J2
KC	(HC)-()-KC	(HC)-()P-()-KC	2(HC)-()-KC
JA,JB	(HC)-()-JB	(HC)-()P-()-JB	2(HC)-()-JB
YA2	(HC)-()-YA	(HC)-()P-()-YA	2(HC)-()-YA
IYC, IYB, IYA	(HC)-()-IYC	(HC)-()P-()-IYC	2(HC)-()-IYC
YD	(HC)-()-YD	(HC)-()P-()-YD	2(HC)-()-YD
XA	(HC)-()-XA	(HC)-()P-()-XA	2(HC)-()-XA
M61,MC,MB1	(HC)-()-M61	(HC)-()P-()-M61	2(HC)-()-M61
MD4,XB,XC,XM	(HC)-()-XB	(HC)-()P-()-XB	2(HC)-()-XB
MD7,MD74	(HC)-()-MD7	(HC)-()P-()-MD7	2(HC)-()-MD7
X,X1M,XD,X1	(HC)-()-X	(HC)-()P-()-X	2(HC)-()-X
IMC, IMB, IMD IXB, IXC, IXA, IXD, IXM	(HC)-()-IMC	(HC)-()P-()-X	2(HC)-()-X
X7,X71,XA7,XB7,XC7, XD7	(HC)-()-X71	(HC)-()P-()-X71	2(HC)-()-X71
B2	(HC)-()-B2	(HC)-()P-()-B2	2(HC)-()-B2
BB,FC	(HC)-()-BA	(HC)-()P-()-BA	2(HC)-()-BA
CA2	(HC)-()-CA	(HC)-()P-()-CA	2(HC)-()-CA
CD	(HC)-()-CD	(HC)-()P-()-CD	2(HC)-()-CD
PD4	(HC)-()-PD4	(HC)-()P-()-PD4	2(HC)-()-PD4
PD7,PD74	(HC)-()-PD7	(HC)-()P-()-PD7	2(HC)-()-PD7
E,E1,ED,E1M	(HC)-()-E	(HC)-()P-()-E	2(HC)-()-E
EA	(HC)-()-EA	(HC)-()P-()-EA	2(HC)-()-EA
P61,PC,PB1	(HC)-()-P61	(HC)-()P-()-P61	2(HC)-()-P61
EB,EC	(HC)-()-EB	(HC)-()P-()-EB	2(HC)-()-EB
E7,E71,EB7,EC7	(HC)-()-E71	(HC)-()P-()-E71	2(HC)-()-E71
I6	(HC)-()-I6	(HC)-()P-()-I6	2(HC)-()-I6
I8	(HC)-()-I8	(HC)-()P-()-I8	2(HC)-()-I8
IJA, IJB, IJC	(HC)-()-IJA	(HC)-()P-()-IJA	2(HC)-()-IJA
IXB7, IXC7	(HC)-()-IXB7	(HC)-()P-()-IXB7	2(HC)-()-IXB7
L1	(HC)-()-L1	(HC)-()P-()-L1	2(HC)-()-L1
D1	(HC)-()-D1	(HC)-()P-()-D1	2(HC)-()-D1

Husky Way & Channel	Double Bar Covers
3-3/8" Husky Way	2(HC)-()-H
4" Husky Way	2(HC)-()-J
6" Husky Way	2(HC)-()-M
G4/G6 Channel	2(HC)-()-AG
G4/G6 Channel	2(HC)-()-SG

Cover Fasteners



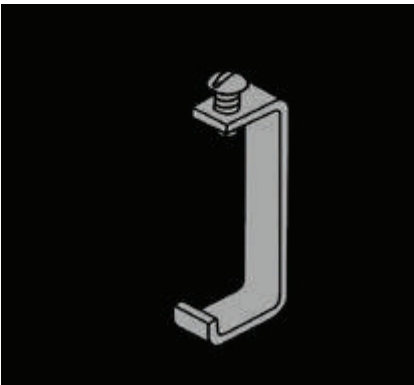
Cover Clips for Flange-Out Husky Ladder & I-Beam

This cover clip is designed to fasten the Electray covers (flange-out) shown in this section. Each clip is mill-galvanized steel and furnished with a thumb screw to facilitate inverted installation on flanged covers.

Clip Style:

- 8 per 12' of straight cover
- 4 min. per horizontal or vertical 90° fitting
- 6 per Tee fitting
- 8 per Cross fitting

Top Flange	Plated	Steel
3/4"	ECC	6ECC
All I-Beam (except I6 & I8)	ECC-IA	6ECC-IA
All Others	ECC-E	6ECC-E



Cover Clips for Flange-In Husky Ladder and Husky Trough

These clips fasten the Husky Trough and Husky Flange-In Ladder covers shown in this section to Husky Trough and Husky Flange-In Ladder.

NOTE: Not for use with Husky Way or any brake formed pan

Tray Type	Plated	SS304	SS 316
HA	HACC	4HACC	6HACC
J2	J2CC	4J2CC	6J2CC
JA, JB	KCC	4KCC	6KCC
KC	K2CC	4K2CC	6K2CC
YA2	YACC	4YACC	6YACC
YD	YDCC	4YDCC	6YDCC
MD4	MCC	4MCC	6MCC
X, X1, X1M	XCC	4XCC	6XCC
XB, XC	XBCC	4XBCC	6XBCC
MB1, M61, XA, MC	XACC	4XACC	6XACC
XD	XDCC	4XDCC	6XDCC
MD7,MD74	MD7CC	4MD7CC	6MD7CC
X7,X71,XB7,XC7	X71CC	4X71CC	6X71CC
IJA,IJB,IJC	IJACC	4IJACC	6IJACC
IYA,IYB,IYC	IYBCC	4IYBCC	6IYBCC
IMB,IMC,IMD, IXA,IXB,IXC,IXD	IXBCC	4IXBCC	6IXBCC
IXD7	IXD7CC	4IXD7CC	6IXD7CC
L1	L1CC	4L1CC	6L1CC
D1	D1CC	4D1CC	6D1CC



Banding, Banding Clips and Banding Tools

All covers, except peaked & hat-shaped may be secured with banding. Stainless steel banding is available with banding clips. Banding is 0.02" x 1/2" wide type 302 Stainless Steel strip. Clips are used to secure banding. Only a piece of wood and a pair of pliers are required to tighten and fasten in place, although a special banding tool is available for this purpose. The banding tool is used when a considerable amount of banding is to be done or when uniform tensioning of the banding is desirable. This tool has a built-in cut-off and extremely short (6") handles with aluminum knobs for use in tight quarters. The 36-tooth ratchet creates high tensioning power.

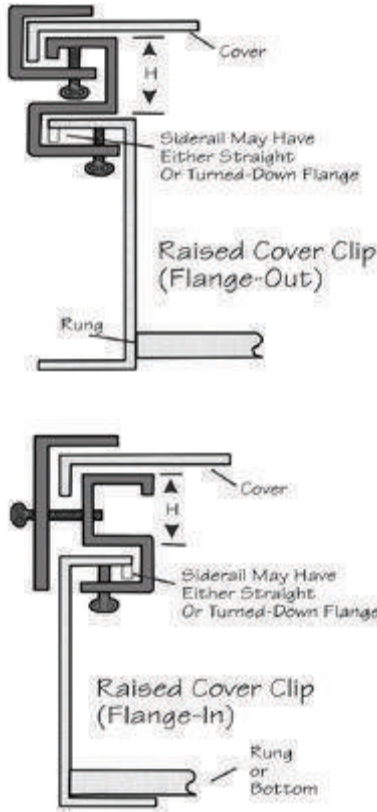
**Banding clips are each.*

Description	Catalog Number
100' Roll 1/2" Wide Banding	SCCB-100
Banding Clips 1/2" Wide	SCCB-C
Banding Tool	CCB-T



Cover Fasteners

Stand-Off Clips

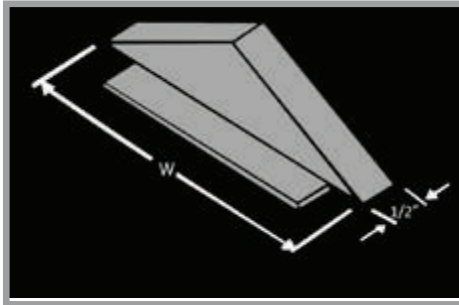


Cover stand-off clips provide a means to mount the cover above the tray side rail, allowing side ventilation. Cover stand-off clips should only be used with flanged covers and are available in various heights, offering a choice in the amount of open area for side ventilation. (Part # is for 1ea.)

() = Distance between tray flange & bottom of cover

Tray Type	Plated Steel	Stainless Steel 316
JA,JB,MD4,MD7,MD74,J2	RCC-J-()	6RCC-J-()
M61,MC,MB1	RCC-M61-()	6RCC-M61-()
HA,J2,KC,MC	RCC-KC-()	6RCC-KC-()
IJA,IJB,IJC	RCC-IJC-()	6RCC-IJC-()
X,X1,YD,XA,XB,XC,XD,X7,X71,XB7,XC7, X1M	RCC-X-()	6RCC-X-()
IMB,IMC,IMD,IYA,IYB,IYC,IXA,IXB,IXC,IXD,IXD7	RCC-IXD-()	6RCC-IXD-()
YA2	RCC-YA-()	6RCC-B-()
All Flange-Out Husky Ladder BB,CA2,PC,EA,E1,B2,FC,CD,P61,PD4,PB1,E, EB,EC,ED,E7,E71,I6,I8,EB7,EC7,PB7,PB74	RCC-E-()	6RCC-E-()

NOTE: Not recommended for outdoor use with high wind speeds



Peak Cover End Cap

Used to close the end of a peaked cover where it ends against a flat cover.

Catalog

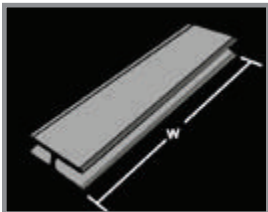
C(peak height)P-(material type*)(tray type*)-(width)-EC

(Optional: add "-(degree of slope)" to the end of part number for a specific degree of peak slope)

Example:

C2P-A1-24-EC

*Refer to page 165 for material and tray types



Cover Joint Strips

These are used to join covers for all tray types.

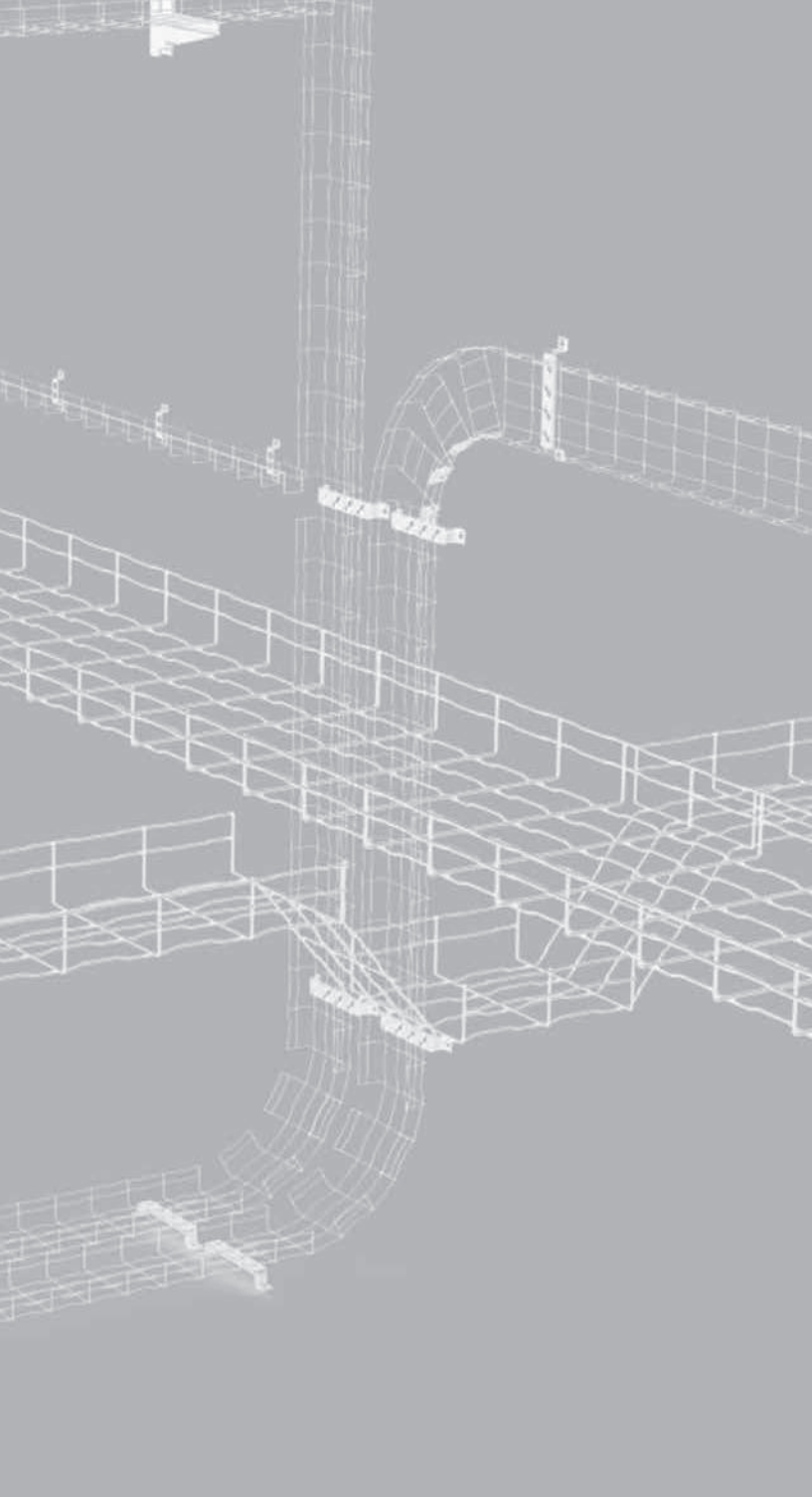


Cover Fastening Screws

All covers may be secured with self-drilling tapping sheet metal screws (B-26 shown).

Aluminum	Flange-In, I-Beam: ASP-VS-(Width) Flange-Out: ASP-ES-(Width)
Steel	Flange-In: SSP-VS-(Width) Flange-Out: SSP-ES-(Width)
Galvannealed	Husky Way: NSP-VS-(Width)

Description	Catalog #
#10 x 5/8" Hex Head Self Drilling Self Tapping Stainless Steel	B-55-SS
#6-20 x 3/8" Self Drilling Phillips Pan Head Sheet Metal Screw	B-26



Wire Basket Cable Trays



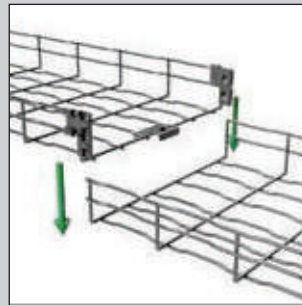
MP HUSKY™

WIRE MANAGEMENT BY **3E basor**



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- 1 Shipped with pre-attached splice plates, the BF2R Series offers a distinct advantage for installers. This system is designed for tool-less, quick installation.
- 2 The BF2R Series is UL Classified for use as an equipment ground conductor. No additional splice plates or bonding jumpers are required with pre-attached splice plates.
- 3 To avoid damage to cables or personnel, all MP Husky Wire Basket Cable Tray is manufactured with a safety edge.



CABLE CAPACITY (in ²)			
Width (in)	2" Deep	4" Deep	6" Deep
	Area (in ²)	Area (in ²)	Area (in ²)
2	3.57	-	-
4	7.29	-	-
6	11.63	-	-
8	15.81	28.83	44.33
12	24.34	45.11	68.2
16	32.86	61.38	92.07
20	41.39	77.66	115.94
24	49.91	93.93	139.81

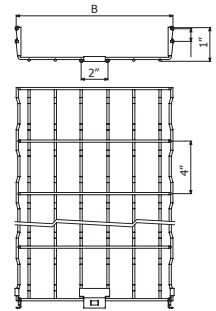
2" DEEP, BF2R SELF COUPLING SYSTEM



L = 10 FT / 3 m

Description	Width, B (in)	SWL (lbs/ft) L=5ft	Center Splices	EZ Part No.	Self Weight (lbs/ft)
2" Deep, 2" Wide	2	15	0	BF2R-02X2-EZ	0.38
2" Deep, 4" Wide	4	30	0	BF2R-04X2-EZ	0.54
2" Deep, 6" Wide	6	30	0	BF2R-06X2-EZ	0.57
2" Deep, 8" Wide	8	30	0	BF2R-08X2-EZ	0.74
2" Deep, 12" Wide	12	30	1	BF2R-12X2-EZ	1.08
2" Deep, 16" Wide	16	30	1	BF2R-16X2-EZ	1.32
2" Deep, 20" Wide	20	37	2	BF2R-20X2-EZ	1.84
2" Deep, 24" Wide	24	37	2	BF2R-24X2-EZ	2.12

1.) Safe Working Load (SWL) includes 1.5 safety factor.
 2.) BF2R available in electroplated zinc only.
 3.) Splice plates come pre-installed on tray.



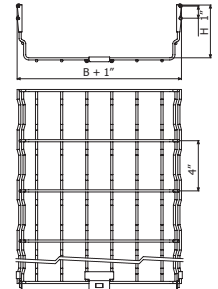
4" DEEP, BF2R SELF COUPLING SYSTEM



L = 10 FT / 3 m

Description	Width, B (in)	SWL (lbs/ft) L=5ft	Center Splices	EZ Part No.	Self Weight (lbs/ft)
4" Deep, 8" Wide	8	40	0	BF2R-08X4-EZ	1.08
4" Deep, 12" Wide	12	40	1	BF2R-12X4-EZ	1.31
4" Deep, 16" Wide	16	47	1	BF2R-16X4-EZ	1.84
4" Deep, 20" Wide	20	47	2	BF2R-20X4-EZ	2.11
4" Deep, 24" Wide	24	47	2	BF2R-24X4-EZ	2.39

1.) Safe Working Load (SWL) includes 1.5 safety factor.
 2.) BF2R available in electroplated zinc only.
 3.) Splice plates come pre-installed on tray.



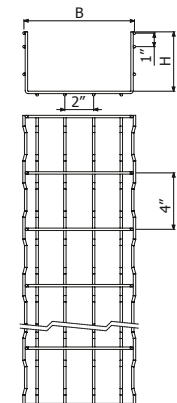
6" DEEP, BFR SYSTEM



L = 10 FT / 3 m

Description	Width, B (in)	SWL (lbs/ft) L=5ft	Center Splices Required (*)	EZ Part No.	Self Weight (lbs/ft)
6" Deep, 8" Wide	8	49	0	BFR-08X6-EZ	1.27
6" Deep, 12" Wide	12	49	1	BFR-12X6-EZ	1.65
6" Deep, 16" Wide	16	58	1	BFR-16X6-EZ	1.9
6" Deep, 20" Wide	20	58	2	BFR-20X6-EZ	2.14
6" Deep, 24" Wide	24	58	2	BFR-24X6-EZ	2.35

1.) Safe Working Load (SWL) includes 1.5 safety factor.
 2.) To splice trays together, two lateral union sets are required plus applicable number of Bolt-Staple Sets (*).



Wire Basket Cable Tray listed above are available in a Powder Coated finish. To order, use the first 10 characters (includes dashes), followed by:

- | | | |
|-----------------|------------------|--------------------|
| i. PCB (Black) | iv. PCO (Orange) | vii. PCGY (Gray) |
| ii. PCBU (Blue) | v. PCW (White) | viii. PCY (Yellow) |
| iii. PCR (Red) | vi. PCG (Green) | ix. PCP (Purple) |

Hot Dip Galvanized After Fabrication

Wire Basket



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- 1 The HDGAF BFR Series was designed to offer both optimal design and finish. MP Husky ensures that all HDGAF coatings are smooth and free of sharp edges that could cause harm to cables or installers.
- 2 The BFR Series is UL Classified for use as an equipment ground conductor.
- 3 To avoid damage to cables or personnel, all MP Husky Wire Basket Cable Tray is manufactured with a safety edge.



CABLE CAPACITY (in²)

Width (in)	2" Deep	4" Deep	6" Deep
	Area (in ²)	Area (in ²)	Area (in ²)
2	3.57	-	-
4	7.29	-	-
6	11.63	-	-
8	15.81	28.83	44.33
12	24.34	45.11	68.2
16	32.86	61.38	92.07
20	41.39	77.66	115.94
24	49.91	93.93	139.81

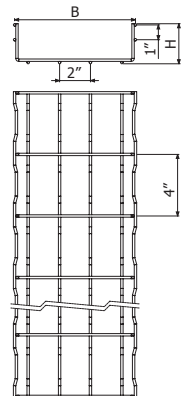
2" DEEP, BFR SYSTEM



L = 10 FT / 3 m

Description	Width, B (in)	SWL (lbs/ft) L=5ft	Center Splices Required (*)	HDGAF Part No.	Self Weight (lbs/ft)
2" Deep, 2" Wide	2	15	0	BFR-02X2-HDG	0.4
2" Deep, 4" Wide	4	30	0	BFR-04X2-HDG	0.56
2" Deep, 6" Wide	6	30	0	BFR-06X2-HDG	0.6
2" Deep, 8" Wide	8	30	0	BFR-08X2-HDG	0.77
2" Deep, 12" Wide	12	30	1	BFR-12X2-HDG	1.13
2" Deep, 16" Wide	16	30	1	BFR-16X2-HDG	1.37
2" Deep, 20" Wide	20	37	2	BFR-20X2-HDG	1.78
2" Deep, 24" Wide	24	37	2	BFR-24X2-HDG	2.04

1.) Safe Working Load (SWL) includes 1.5 safety factor.
2.) To splice trays together, two lateral union sets are required plus applicable number of Bolt-Staple Sets (*).



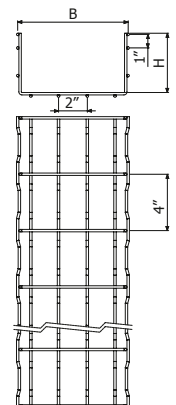
4" DEEP, BFR SYSTEM



L = 10 FT / 3 m

Description	Width, B (in)	SWL (lbs/ft) L=5ft	Center Splices Required (*)	HDGAF Part No.	Self Weight (lbs/ft)
4" Deep, 8" Wide	8	40	0	BFR-08X4-HDG	1.13
4" Deep, 12" Wide	12	40	1	BFR-12X4-HDG	1.37
4" Deep, 16" Wide	16	47	1	BFR-16X4-HDG	1.78
4" Deep, 20" Wide	20	47	2	BFR-20X4-HDG	2.04
4" Deep, 24" Wide	24	47	2	BFR-24X4-HDG	2.31

1.) Safe Working Load (SWL) includes 1.5 safety factor.
2.) To splice trays together, two lateral union sets are required plus applicable number of Bolt-Staple Sets (*).



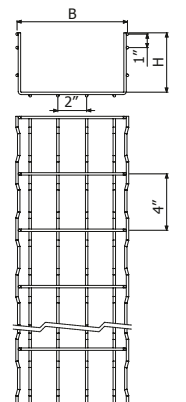
6" DEEP, BFR SYSTEM



L = 10 FT / 3 m

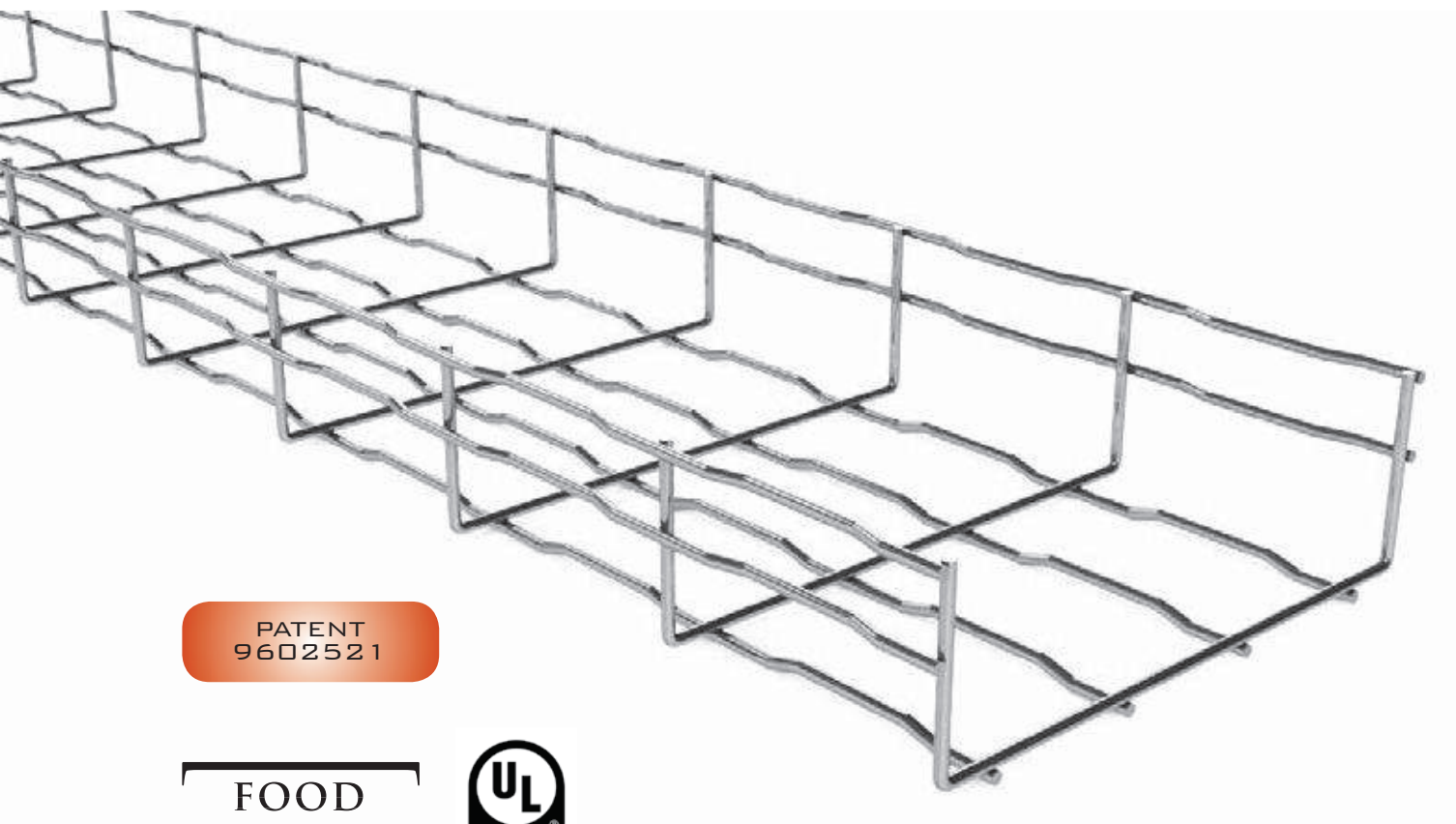
Description	Width, B (in)	SWL (lbs/ft) L=5ft	Center Splices Required (*)	HDGAF Part No.	Self Weight (lbs/ft)
6" Deep, 8" Wide	8	49	0	BFR-08X6-HDG	1.27
6" Deep, 12" Wide	12	49	1	BFR-12X6-HDG	1.65
6" Deep, 16" Wide	16	58	1	BFR-16X6-HDG	1.9
6" Deep, 20" Wide	20	58	2	BFR-20X6-HDG	2.14
6" Deep, 24" Wide	24	58	2	BFR-24X6-HDG	2.35

1.) Safe Working Load (SWL) includes 1.5 safety factor.
2.) To splice trays together, two lateral union sets are required plus applicable number of Bolt-Staple Sets (*).



Wire Basket Cable Tray listed above are available in a Powder Coated finish. To order, use the first 10 characters (includes dashes), followed by:

- | | | |
|-----------------|------------------|--------------------|
| i. PCB (Black) | iv. PCO (Orange) | vii. PCGY (Gray) |
| ii. PCBU (Blue) | v. PCW (White) | viii. PCY (Yellow) |
| iii. PCR (Red) | vi. PCG (Green) | ix. PCP (Purple) |



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FOOD
INDUSTRY
SAFETY



- 1 The Stainless Steel BFR Series was designed to offer both optimal design and finish.
- 2 To avoid damage to cables or personnel, all MP Husky Wire Basket Cable Tray is manufactured with a safety edge.



CABLE CAPACITY (in2)			
Width (in)	2" Deep	4" Deep	6" Deep
	Area (in2)	Area (in2)	Area (in2)
2	3.57	-	-
4	7.29	-	-
6	11.63	-	-
8	15.81	28.83	44.33
12	24.34	45.11	68.2
16	32.86	61.38	92.07
20	41.39	77.66	115.94
24	49.91	93.93	139.81

2" DEEP, BFR SYSTEM

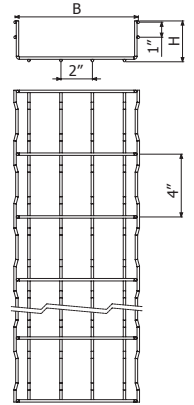


L = 10 FT / 3 m

Description	Width, B (in)	SWL (lbs/ft) L=5ft	Center Splices Required (*)	SS304 Part No.	Self Weight (lbs/ft)	SS306 Part No.	Self Weight (lbs/ft)
2" Deep, 2" Wide	2	21	0	BFR-02X2-4S	0.44	BFR-02X2-6S	0.44
2" Deep, 4" Wide	4	38	0	BFR-04X2-4S	0.64	BFR-04X2-6S	0.64
2" Deep, 6" Wide	6	38	0	BFR-06X2-4S	0.68	BFR-06X2-6S	0.68
2" Deep, 8" Wide	8	38	0	BFR-08X2-4S	0.88	BFR-08X2-6S	0.88
2" Deep, 12" Wide	12	38	1	BFR-12X2-4S	1.12	BFR-12X2-6S	1.12
2" Deep, 16" Wide	16	38	1	BFR-16X2-4S	1.36	BFR-16X2-6S	1.36
2" Deep, 20" Wide	20	43	2	BFR-20X2-4S	1.60	BFR-20X2-6S	1.60
2" Deep, 24" Wide	24	43	2	BFR-24X2-4S	1.85	BFR-24X2-6S	1.85

1.) Safe Working Load (SWL) includes 1.5 safety factor.

2.) To splice trays together, two lateral union sets are required plus applicable number of Bolt-Staple Sets (*).



L = 10 FT / 3 m

4" DEEP, BFR SYSTEM

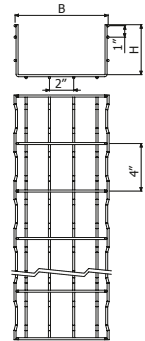


L = 10 FT / 3 m

Description	Width, B (in)	SWL (lbs/ft) L=5ft	Center Splices Required (*)	SS304 Part No.	Self Weight (lbs/ft)	SS306 Part No.	Self Weight (lbs/ft)
4" Deep, 8" Wide	8	51	0	BFR-08X4-4S	1.13	BFR-08X4-6S	1.13
4" Deep, 12" Wide	12	51	1	BFR-12X4-4S	1.37	BFR-12X4-6S	1.37
4" Deep, 16" Wide	16	55	1	BFR-16X4-4S	1.61	BFR-16X4-6S	1.61
4" Deep, 20" Wide	20	55	2	BFR-20X4-4S	1.85	BFR-20X4-6S	1.85
4" Deep, 24" Wide	24	55	2	BFR-24X4-4S	2.09	BFR-24X4-6S	2.09

1.) Safe Working Load (SWL) includes 1.5 safety factor.

2.) To splice trays together, two lateral union sets are required plus applicable number of Bolt-Staple Sets (*).



6" DEEP, BFR SYSTEM

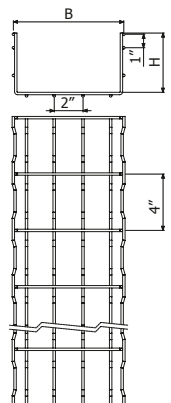


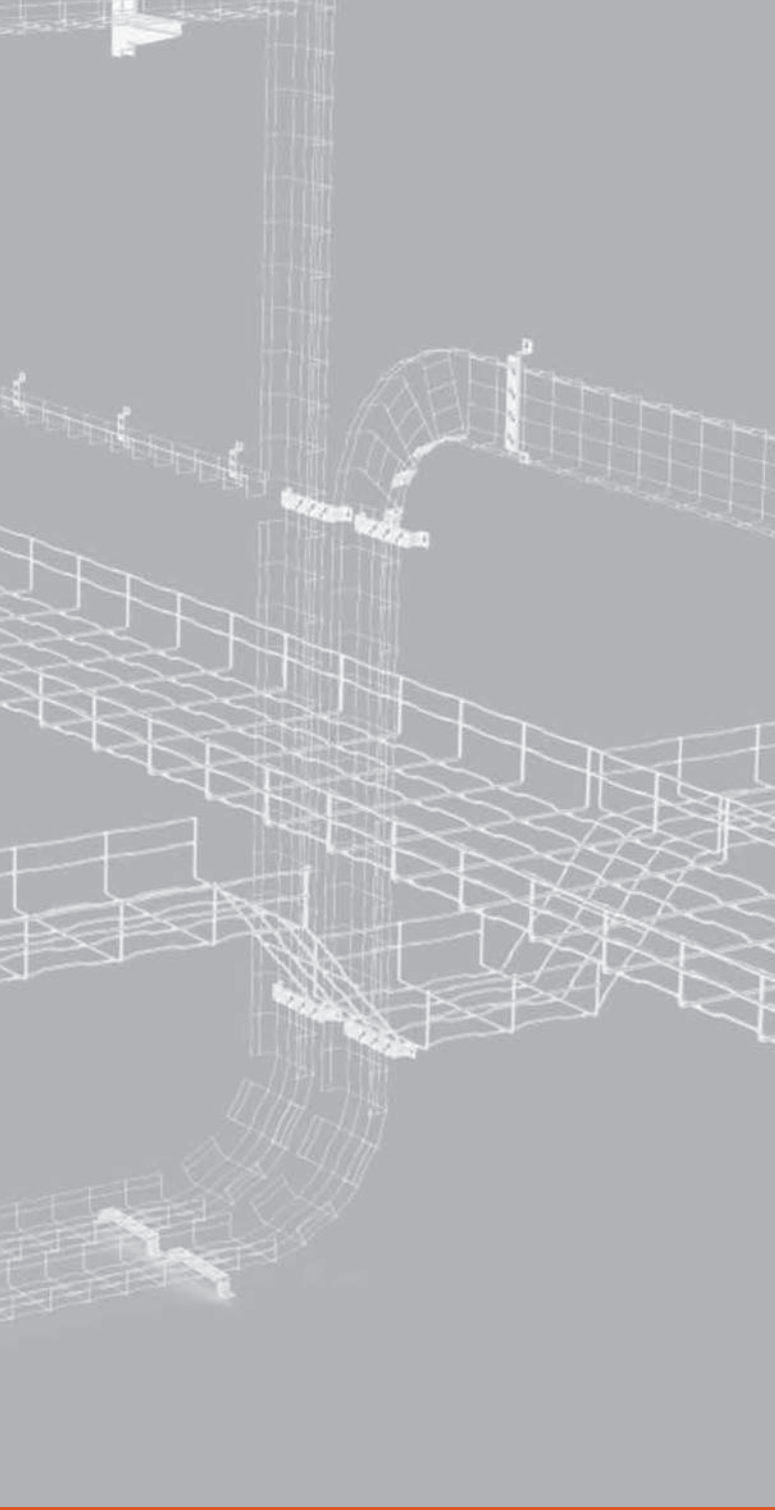
L = 10 FT / 3 m

Description	Width, B (in)	SWL (lbs/ft) L=5ft	Center Splices Required (*)	SS304 Part No.	Self Weight (lbs/ft)	SS306 Part No.	Self Weight (lbs/ft)
6" Deep, 8" Wide	8	51	0	BFR-08X6-4S	1.27	BFR-08X6-6S	1.27
6" Deep, 12" Wide	12	51	1	BFR-12X6-4S	1.65	BFR-12X6-6S	1.65
6" Deep, 16" Wide	16	55	1	BFR-16X6-4S	1.9	BFR-16X6-6S	1.9
6" Deep, 20" Wide	20	55	2	BFR-20X6-4S	2.14	BFR-20X6-6S	2.14
6" Deep, 24" Wide	24	55	2	BFR-24X6-4S	2.35	BFR-24X6-6S	2.35

1.) Safe Working Load (SWL) includes 1.5 safety factor.

2.) To splice trays together, two lateral union sets are required plus applicable number of Bolt-Staple Sets (*).





Fasteners & Accessories



MP HUSKY™

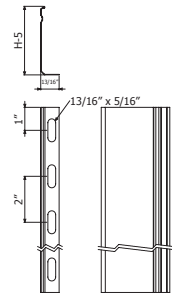
WIRE MANAGEMENT BY **3E basor**

DIVIDERS

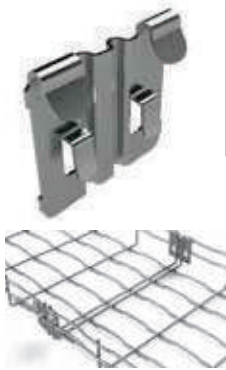


Description	EZ Part No.	Self Weight (lbs/ft)	HDGAF Part No.	Self Weight (lbs/ft)
2" Divider	PS-2-PG	0.23	PS-2-HDG	0.29
4" Divider	PS-4-PG	0.37	PS-4-HDG	0.51
6" Divider	PS-6-PG	0.5	PS-6-HDG	0.73

1.) MP Husky recommends that dividers be secured every 30".
 2.) To secure dividers, a B1 Bolt and BF Staple is required.

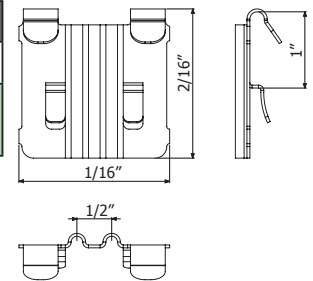


QUICK SPLICE



Description	EZ Part No.	Self Weight (lbs/ft)	HDGAF Part No.	Self Weight (lbs/ft)
Quick Splice Connector	QUICK-JOINT-EZ	0.066	QUICK-JOINT-HDG	0.066

1.) Quick connector for 2" deep and 4" deep BFR Series Cable Tray.
 2.) No hardware is required to secure Quick Splice Connector to tray.



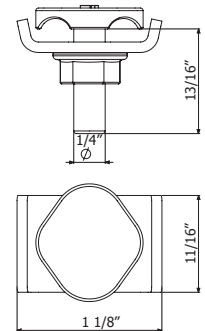
**FAST
COUPLING**

BOLT-STAPLE SET



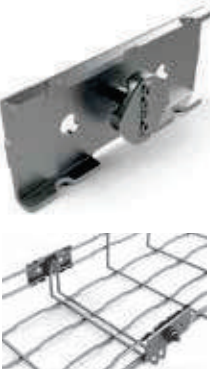
Description	EZ Part No.	Self Weight (lbs/ud)	HDGAF Part No.	Self Weight (lbs/ud)
Bolt-Staple Set	BOLT-STAPLE-SET-EZ	0.07	BOLT-STAPLE-SET-HDG	0.07

1.) Bolt-Staple Set includes BF Bolt Set and BF Staple.
 2.) Bolt-Staple Sets are shipped in quantities of 100.



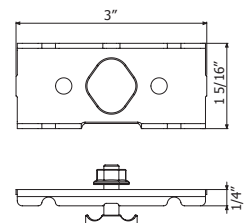
**PATENT
9602521**

LATERAL UNION SET



Description	EZ Part No.	Self Weight (lbs/ud)	HDGAF Part No.	Self Weight (lbs/ud)
Lateral Union Set	LATERAL-UNION-EZ	0.132	LATERAL-UNION-HDG	0.132

1.) The Lateral Union Set consists of a Lateral Union and a BF Bolt-Nut Set.
 2.) The Lateral Union Set is the recommended splice plate for BFR Series Wire Basket.
 3.) Lateral Union Sets are shipped in quantities of 100.

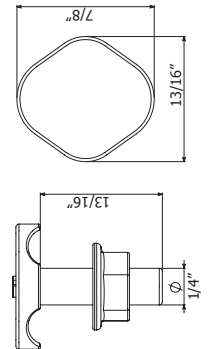


BOLT-NUT SET



Description	EZ Part No.	Self Weight (lbs/ud)	HDGAF Part No.	Self Weight (lbs/ud)
Bolt-Nut Set	BOLT-NUT-SET-EZ	0.044	BOLT-NUT-SET-HDG	0.044
1.) Bolt-Nut Set consists of BF Bolt and BF Nut. 2.) Bolt-Nut Sets are shipped in quantities of 100.				

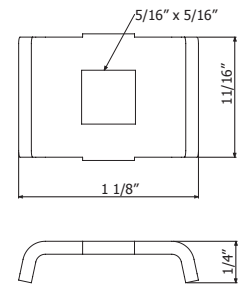
PATENT
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BF STAPLE



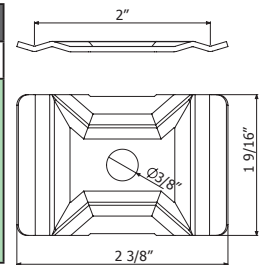
Description	EZ Part No.	Self Weight (lbs/ud)	HDGAF Part No.	Self Weight (lbs/ud)
BF Staple	BF-STAPLE-EZ	0.022	BF-STAPLE-HDG	0.022
1.) Combined with B1-EZ to mount PS-2, PS-4, and PS-6 separators. 2.) Shipped in quantities of 100.				



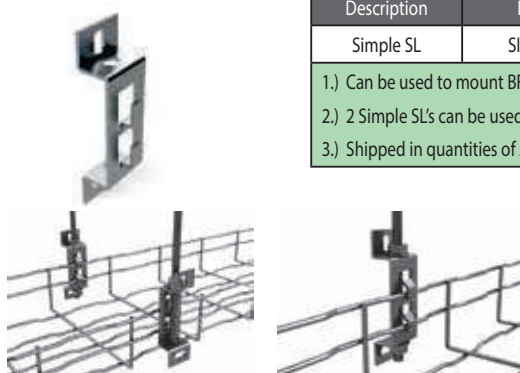
SSC HOLD DOWN



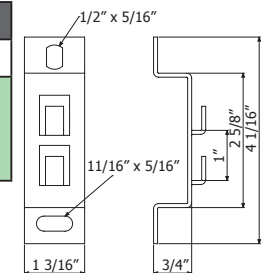
Description	EZ Part No.	Self Weight (lbs/ud)	HDGAF Part No.	Self Weight (lbs/ud)
SSC Hold Down	SSC-EZ	0.066	SSC-HDG	0.066
1.) Combined with one Bolt-Nut Set, two SSC Hold Downs can be used to create an adjustable horizontal fitting or small radius fitting. 2.) Combined with threaded rod and nuts, two SSC Hold Downs can be used as a center hanger support for 4", 6", and 8" widths. 3.) Combined with a spring nut and bolt, SSC Hold Downs can be used to secure wire basket to strut. 4.) Shipped in quantities of 50.				



SIMPLE SL



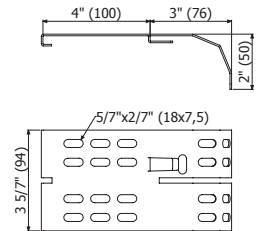
Description	PG Part No.	Self Weight (lbs/ud)	HDGAF Part No.	Self Weight (lbs/ud)
Simple SL	SIMPLE-SL-PG	0.11	SIMPLE-SL-HDG	0.11
1.) Can be used to mount BF2R/BFR-04X2 and BF2R/BFR-02X2 to wall. 2.) 2 Simple SL's can be used as side hanger supports for wire basket for 2", 4", 6" and 8" widths. 3.) Shipped in quantities of 20.				



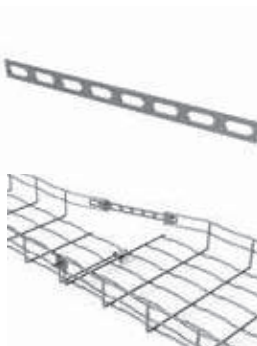
DROP-OUT PLATE



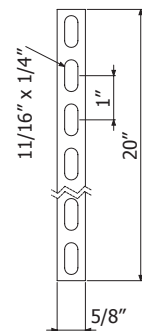
Description	PG Part No.	Self Weight (lbs/ud)	HDGAF Part No.	Self Weight (lbs/ud)
Drop-Out Plate	DROP-OUT-PG	0.4	DROP-OUT-HDG	0.4
1.) No hardware is required to secure Drop-Out Plate to wire basket. 2.) Drop-Out Plate is not compatible with 2" and 4" wide wire basket.				



MULTI-UNION JOINT



Description	PG Part No.	Self Weight (lb/ud)	HDGAF Part No.	Self Weight (lb/ud)
Multi Union Joint	MULTI-UNION-PG	0.11	MULTI-UNION-HDG	0.11
1.) Multi purpose bracket used to field fabricate fittings. 2.) Secured to wire basket using Bolt-Staple Sets 3.) Shipped in quantities of 10.				



HOLD DOWN CLIP



Description	PG Part No.
Hold Down Clip	CLIP-FIL-PG
1.) A quick and inexpensive option for securing wire basket to strut. 2.) Shipped in quantities of 100	

ZINC RICH PAINT



Description	Part No.
Zinc Rich Paint	ZRP-740
1.) For optimum protection against corrosion, field cut ends should be coated with zinc rich paint.	

CUTTING TOOL



Description	Part No.
Cutting Tool	WBCT
1.) Used for cutting wires for field modifications. 2.) This cutter is equipped with offset blades for more precise cutting. 3.) Handles are 17" long.	

COVERS

Description	Width (in)	Length (ft)	PG Part No.	Self Weight (lbs/ud)	HDGAF Part No.	Self Weight (lbs/ud)
Cover for BFR/BF2R 2"D,2"W	2	5	COVER-H2-02-PG	1.74	COVER-H2-02-HDG	2.58
Cover for BFR/BF2R 2"D,4"W	4	10	COVER-H2-04-PG	4.70	COVER-H2-04-HDG	6.96
Cover for BFR/BF2R 2"D,6"W	6	10	COVER-H2-06-PG	6.55	COVER-H2-06-HDG	9.69
Cover for BFR/BF2R 2"D,8"W	8	10	COVER-H2H6-08-PG	8.41	COVER-H2H6-08-HDG	12.45
Cover for BFR/BF2R 2"D,12"W	12	10	COVER-H2H6-12-PG	12.11	COVER-H2H6-12-HDG	17.92
Cover for BFR/BF2R 2"D,16"W	16	10	COVER-H2H6-16-PG	15.81	COVER-H2H6-16-HDG	23.40
Cover for BFR/BF2R 2"D,20"W	20	10	COVER-H2H6-20-PG	22.30	COVER-H2H6-20-HDG	33.00
Cover for BFR/BF2R 2"D,24"W	24	10	COVER-H2H6-24-PG	26.53	COVER-H2H6-24-HDG	39.26
Cover for BFR/BF2R 4"D,8"W	8	10	COVER-H4-08-PG	9.07	COVER-H4-08-HDG	13.42
Cover for BFR/BF2R 4"D,12"W	12	10	COVER-H4-12-PG	12.77	COVER-H4-12-HDG	18.90
Cover for BFR/BF2R 4"D,16"W	16	10	COVER-H4-16-PG	16.48	COVER-H4-16-HDG	24.39
Cover for BFR/BF2R 4"D,20"W	20	10	COVER-H4-20-PG	23.06	COVER-H4-20-HDG	34.13
Cover for BFR/BF2R 4"D,24"W	24	10	COVER-H4-24-PG	27.29	COVER-H4-24-HDG	40.39

1.) No hardware necessary to secure covers to wire basket. Covers are designed with tabs that are bent to secure cover to wire basket.



SOLID BOTTOM INSERTS

Description	PG Part No.	Self Weight (lbs/ft)	EZ Part No.	Self Weight (lbs/ft)
H2"/H6" Solid Bottom Inserts, 2" Wide	SB10SBI-02-3M	2.1	ZSB10SBI-02-3M	2.4
H2"/H6" Solid Bottom Inserts, 4" Wide	SB10SBI-04-3M	3.7	ZSB10SBI-04-3M	4
H2"/H6" Solid Bottom Inserts, 6" Wide	SB10SBI-06-3M	5.1	ZSB10SBI-06-3M	5.4
H2"/H6" Solid Bottom Inserts, 8" Wide	SB10SBI-08-3M	6.5	ZSB10SBI-08-3M	6.8
H2"/H6" Solid Bottom Inserts, 12" Wide	SB10SBI-12-3M	10.3	ZSB10SBI-12-3M	10.06
H2"/H6" Solid Bottom Inserts, 16" Wide	SB10SBI-16-3M	14.6	ZSB10SBI-16-3M	11.49
H2"/H6" Solid Bottom Inserts, 20" Wide	SB10SBI-20-3M	20.07	ZSB10SBI-20-3M	20.1
H2"/H6" Solid Bottom Inserts, 24" Wide	SB10SBI-24-3M	26.03	ZSB10SBI-24-3M	26.6
H4" Solid Bottom Inserts, 2" Wide	SB20SBI-02-3M	2.09	ZSB20SBI-02-3M	2.39
H4" Solid Bottom Inserts, 4" Wide	SB20SBI-04-3M	3.69	ZSB20SBI-04-3M	3.99
H4" Solid Bottom Inserts, 6" Wide	SB20SBI-06-3M	5.09	ZSB20SBI-06-3M	5.39
H4" Solid Bottom Inserts, 8" Wide	SB20SBI-08-3M	6.49	ZSB20SBI-08-3M	6.79
H4" Solid Bottom Inserts, 12" Wide	SB20SBI-12-3M	10.29	ZSB20SBI-12-3M	10.05
H4" Solid Bottom Inserts, 16" Wide	SB20SBI-16-3M	14.59	ZSB20SBI-16-3M	11.48
H4" Solid Bottom Inserts, 20" Wide	SB20SBI-20-3M	20.06	ZSB20SBI-20-3M	20.09
H4" Solid Bottom Inserts, 24" Wide	SB20SBI-24-3M	26.02	ZSB20SBI-24-3M	26.59

1.) Solid Bottom Inserts are secured to wire basket using 1 SSC-EZ and 1 B1-EZ at each hole location (2 holes).



VERTICAL SPLICE PLATES



Description	PG Part No.	Self Weight (lbs/ud)
Vertical Splice Plates	JUA-BFR-PG	0.24

- Two splice plates required to create vertical fitting.
- JUA-BFR includes the following hardware:
 - 2- B1-EZ
- Secured to wire basket using Bolt-Staple Sets.



WALL SUPPORT



Description	PG Part No.	Self Weight (lbs/ud)
Wall Support	WALL-SUPPORT-PG	0.53
1.) Attached to wire basket using two Bolt-Staple Sets..		



ADJUSTABLE SPLICES



Description	PG Part No.	Self Weight (lbs/ud)
Adjustable Splices	CU-BFR-PG	0.07
1.) Used for field fabrication of fittings. Splices are adjustable to allow for more flexibility. 2.) Shipped in quantities of 100.		



SIDE HANGER CLIP



Description	PG Part No.	Self Weight (lbs/ud)
Side Hanger Clip	SU-T-PG	0.07
1.) Acceptable for use on wire basket up to 8" width. 2.) Shipped in quantities of 25.		



END PLATES/REDUCERS



Description	PG Part No.	Self Weight (lbs/ud)
2" Deep, 2" Wide	REER-2X2-PG	0.09
2" Deep, 4" Wide	REER-4X2-PG	0.13
4" Deep, 2" Wide	REER-2X4-PG	0.15
4" Deep, 4" Wide	REER-4X4-PG	0.22
6" Deep, 2" Wide	REER-2X6-PG	0.22
6" Deep, 4" Wide	REER-4X6-PG	0.29
1.) REERs can be used as end plates or as reducers. 2.) 2 Bolt-Staple Sets are required to attach reducer/end plate to wire basket. 3.) REERs can be combined to create a larger width. If REERs are combined, a B1-EZ is required to attach REERs together. 4.) Shipped in quantities of 10.		



2"X 2" SUPPORT



Description	SS304 Part No.
2"X2" Support	PS-2X2-4S
1.) Used with 2" deep, 2" wide wire basket to allow for attachment of supports.	

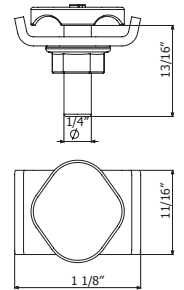


BOLT-STAPLE SET

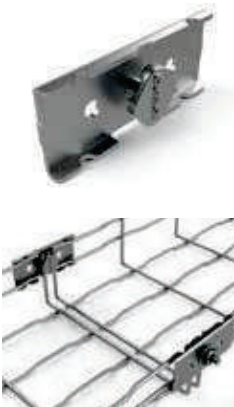


Description	SS304 Part No.	Self Weight (lbs/ud)	SS316 Part No.	Self Weight (lbs/ud)
Bolt-Staple Set	BOLT-STAPLE-SET-4S	0.05	BOLT-STAPLE-SET-6S	0.05
1.) Bolt-Staple Set includes BF Bolt Set and BF Staple. 2.) Bolt-Staple Sets are shipped in quantities of 100.				

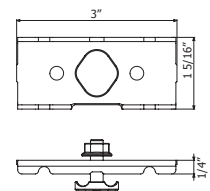
**PATENT
9602521**



LATERAL UNION SET



Description	SS304 Part No.	Self Weight (lbs/ud)	SS316 Part No.	Self Weight (lbs/ud)
Lateral Union Set	LATERAL-UNION-4S	0.12	LATERAL-UNION-6S	0.12
1.) The Lateral Union Set consists of a Lateral Union and a Bolt-Staple Set. 2.) The Lateral Union Set is the recommended splice plate for BFR Series Wire Basket. 3.) Lateral Union Sets are shipped in quantities of 100.				

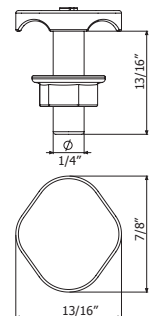


BOLT-NUT SET



Description	SS304 Part No.	Self Weight (lbs/ud)	SS316 Part No.	Self Weight (lbs/ud)
Bolt-Nut Set	BOLT-NUT-SET-4S	0.03	BOLT-NUT-SET-6S	0.03
1.) Bolt-Nut Set consists of BF Bolt and BF Nut. 2.) Bolt-Nut Sets are shipped in quantities of 100.				

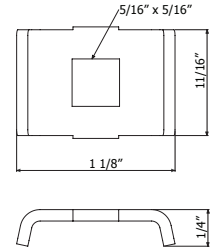
**PATENT
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BF STAPLE



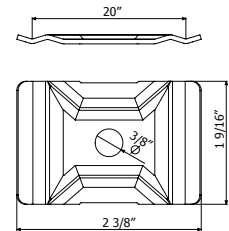
Description	SS304 Part No.	Self Weight (lbs/ud)	SS316 Part No.	Self Weight (lbs/ud)
BF Staple	BF-STAPLE-4S	0.02	BF-STAPLE-6S	0.02
1.) Combined with B1-EZ to mount PS-2, PS-4, and PS-6 separators. 2.) Shipped in quantities of 100.				



SSC HOLD DOWN



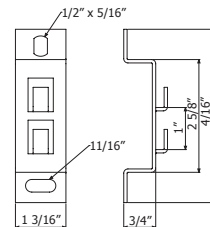
Description	SS304 Part No.	Self Weight (lbs/ud)	SS316 Part No.	Self Weight (lbs/ud)
SSC Hold Down	SS304 Part No.	0.066	SS316 Part No.	0.066
1.) Combined with a B1-EZ, two SSC Hold Downs can be used to created a adjustable horizontal fitting or small radius fitting. 2.) Combined with threaded rod and nuts, two SSC Hold Downs can be used as a center hanger support of 4", 6", and 8" widths. 3.) Combined with a spring nut and bolt, SSC Hold Downs can be used to secure wire basket to strut. 4.) Shipped in quantities of 50.				

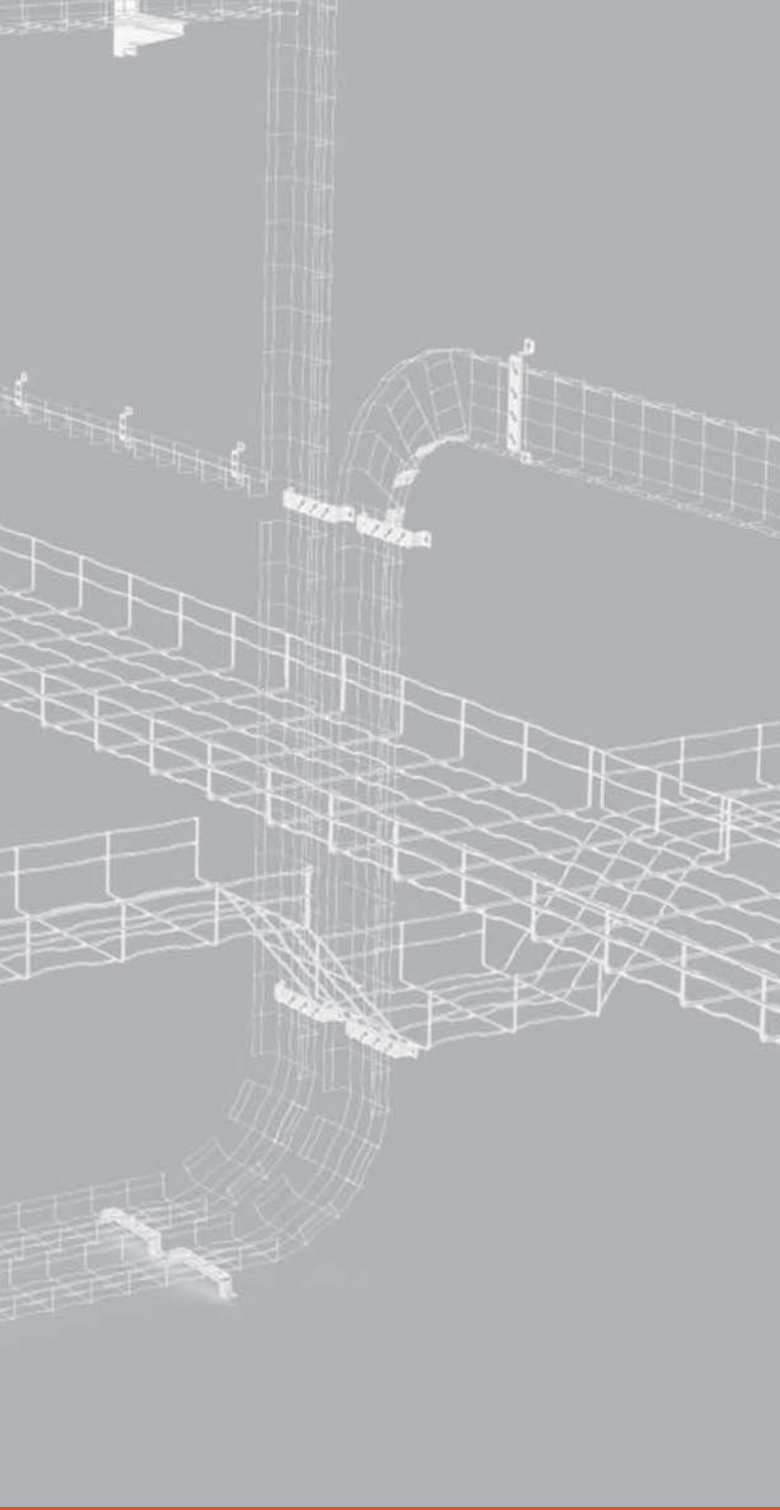


SIMPLE SL



Description	SS304 Part No.	Self Weight (lbs/ud)	SS316 Part No.	Self Weight (lbs/ud)
Simple SL	SIMPLE-SL-4S	0.11	SIMPLE-SL-6S	0.11
1.) Can be used to mount BF2R/BFR-04X2 and BF2R/BFR-02X2 to wall. 2.) 2 Simple SL's can be used as side hanger supports for wire basket for 2", 4", 6" and 8" widths. 3.) Shipped in quantities of 20.				





Supports & Grounding



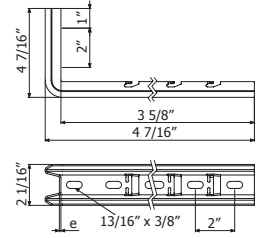
MP HUSKY™

WIRE MANAGEMENT BY **3E** basor

L WALL BRACKET

Description	Width (in)	SWL (lb/ft)	PG Part No.	Self Weight (lbs/ft)	HDGAF Part No.	Self Weight (lbs/ft)
4"/6" Bracket	6	198	CSHO-06-PG	0.95	CSHO-06-HDG	1.03
8"/12" Bracket	12	99	CSHO-12-PG	1.21	CSHO-12-HDG	1.3
Bracket Support			SHO-SHOT-PG	0.066	SHO-SHOT-HDG	0.07

- 1.) No additional hold down hardware is required. T-Shaped tab is bent using a screwdriver to secure wire basket
- 2.) One SHO-SHOT-* is required with each L Bracket.
- 3.) L Brackets and Bracket Supports are shipped in quantities of 5.



SHO Supporting piece

**FAST
COUPLING**

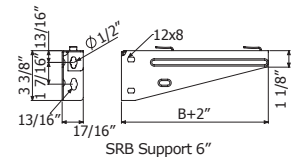


SHELF WALL BRACKET

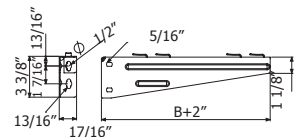
Description	Width (in)	SWL (lb/ft)	PG Part No.	Self Weight (lbs/ft)	HDGAF Part No.	Self Weight (lbs/ft)
4"/6" Bracket	6"	132	SRB-06-PG	0.66	SRB-06-HDG	0.73
8"/12" Bracket	12"	132	SRB-12-PG	1.45	SRB-12-HDG	1.5
16"/20" Bracket	20"	132	SRB-20-PG	2.09	SRB-20-HDG	2.27
24" Bracket	24"	132	SRB-24-PG	2.44	SRB-24-HDG	2.64

- 1.) No additional hold down hardware is required.
- 2.) Shelf Wall Brackets are shipped in quantities of 5.

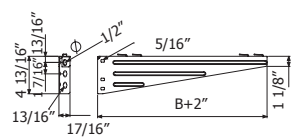
**FAST
COUPLING**



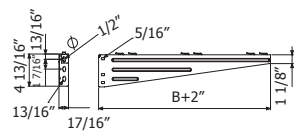
SRB Support 6"



SRB Support 12"



SRB Support 20"

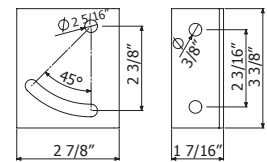


SRB Support 24"

WALL BRACKET ADJUSTABLE SUPPORT



Description	PG Part No.	Self Weight (lb/ud)	HDGAF Part No.	Self Weight (lbs/ud)
Wall Bracket Adjustable Support	WBAS-PG	0.44	WBAS-HDG	0.44
1.) Allows for Shelf Wall Brackets to be adjusted vertically for curved walls, etc. 2.) Shipped in quantities of 5.				



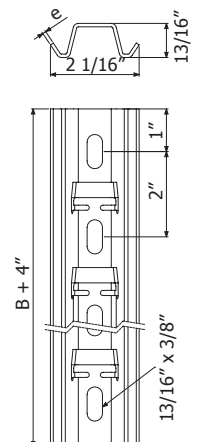
TRAPEZE HANGERS

Description	Width (in)	SWL (lbs/ft)	PG Part No.	Self Weight (lbs/ft)	HDGAF Part No.	Self Weight (lbs/ft)
4"/6" Trapeze Hanger	6"	440	CSVO-06-PG	0.53	CSVO-06-HDG	0.57
8"/12" Trapeze Hanger	12"	517	CSVO-12-PG	1.08	CSVO-12-HDG	1.14
16"/20" Trapeze Hanger	20"	253	CSVO-20-PG	1.47	CSVO-20-HDG	1.58
24" Trapeze Hanger	24"	191	CSVO-24-PG	1.72	CSVO-24-HDG	1.85
3M Trapeze Hanger	118 1/8"		CSVO-3M-PG	10.8	CSVO-3M-PG	11.4

- 1.) No additional hold down hardware required.
- 2.) Designed for use as standard and center hung trapeze hanger.
- 3.) For use with 1/4" threaded rod.
- 4.) Shipped in quantities of 5.

CENTER HUNG

TRAPEZE

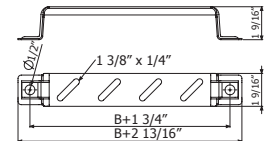


**FAST
COUPLING**

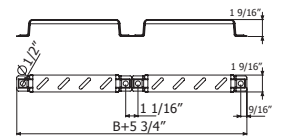
1 1/2" RAISED FLOOR SUPPORTS

Description	Width (in)	SWL (lbs/ft)	PG Part No.	Self Weight (lbs/ud)	HDGAF Part No.	Self Weight (lbs/ud)
4"/6" Raised Floor Support	6"	264	SV-06-PG	0.26	SV-06-HDG	0.29
8"/12" Raised Floor Support	12"	198	SV-12-PG	0.51	SV-12-HDG	0.55
16"/20" Raised Floor Support	20"	330	SV-20-PG	1.14	SV-20-HDG	1.23
24" Raised Floor Support	24"	396	SV-24-PG	1.3	SV-24-HDG	1.41

- 1.) Used to raise wire basket 1 1/2" off of floor.
- 2.) Can be used to secure wire basket to wall for vertical applications.
- 3.) Two Bolt-Staple Sets are required to secure wire basket to support for 6" and 12" supports, and 4 Bolt-Staple Sets are required for 20" and 24" supports.
- 4.) Raised Floor Supports are shipped in quantities of 5.



SVO 6", 12"



SVO 20", 24"

4" RAISED FLOOR SUPPORTS



Description	PG Part No.
4" Raised Floor Support	SFS-SUPPORT-PG

- 1.) When combined with a Underfloor Bracket, creates a raised floor wire basket system.
- 2.) Underfloor Bracket is secured to Raised Floor Support using 2 B1-EZ bolts.



2" RAISED FLOOR SUPPORTS



Description	PG Part No.
2" Raised Floor Supports	PBFR-2-PG
1.) Used to raise wire basket 2" off floor. 2.) No hold down hardware required.	



RAISED FLOOR BRACKET



Description	PG Part No.
Raised Floor Support Bracket	KIT-FS-PG
1.) One Underfloor Support Brackets and two Raised Floor Brackets are required to support wire basket to two raised floor posts. Two B1-EZ bolts are required to secure Underfloor Support Brackets to the Raised Floor Brackets. 2.) Raised Floor Brackets are shipped in quantities of 1.	

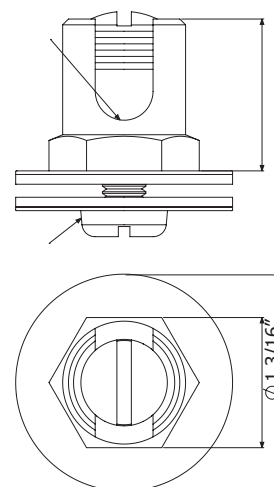
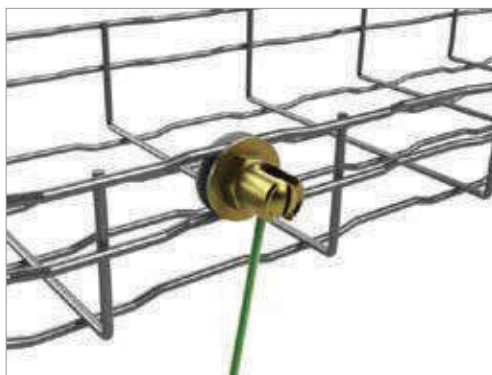
UNDERFLOOR SUPPORT BRACKET

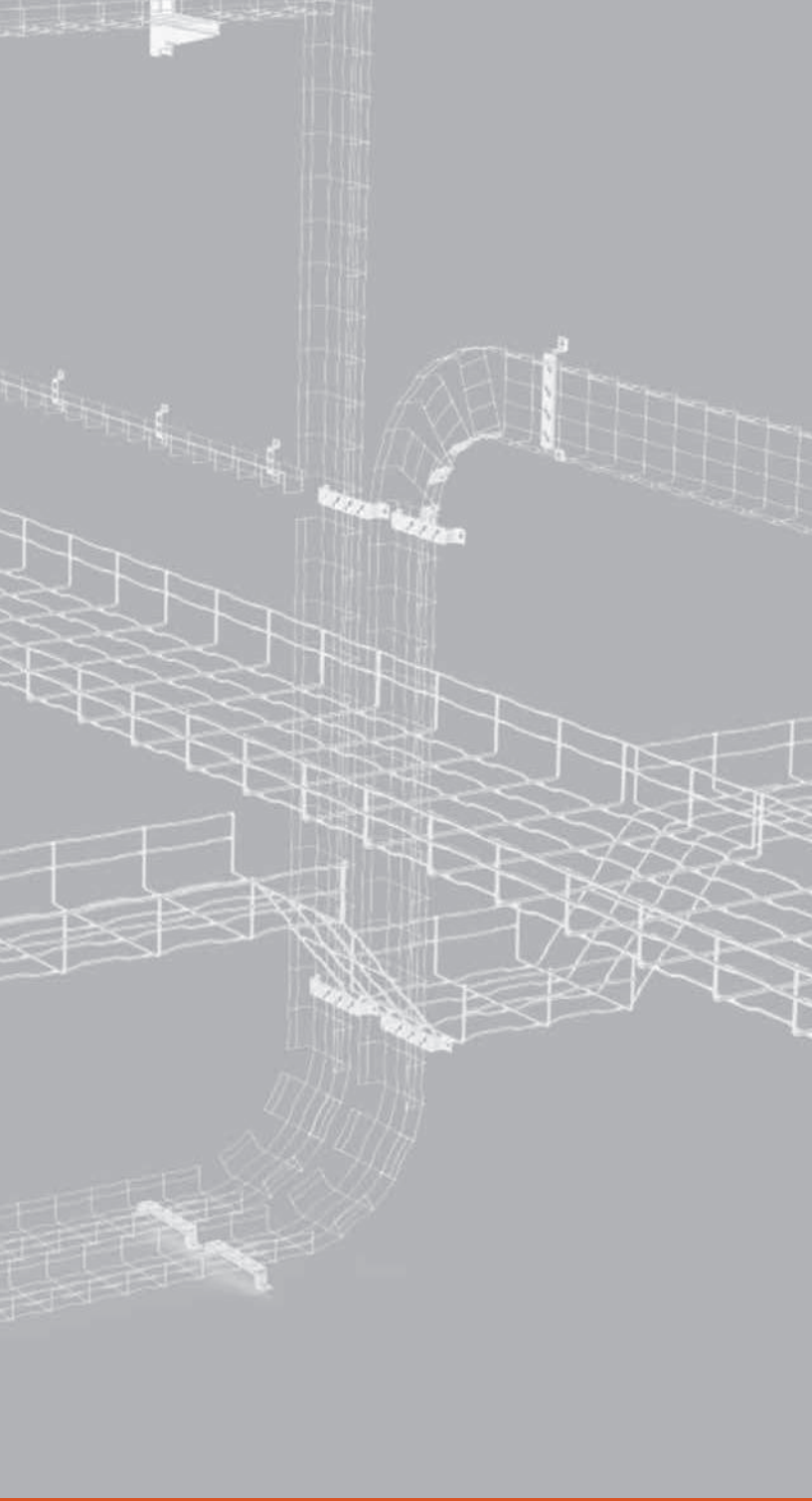
Description	Width (in)	SWL (lbs/ft)	PG Part No.	Self Weight (lbs/ud)
Underfloor Bracket	20"	354	CSVO-UF-PG	1.21
1.) No additional hold down hardware required. 2.) Secured to 2 Underfloor Support Brackets to create under floor support. 3.) Fabricated for use with the following tray widths: 4" wide to 20". 4.) Shipped in quantities of 5.				



GROUNDING CONNECTORS

Description	Brass Part No.	Self Weight (lbs/ud)
Ground Clamp (#8 AWG STR - #2 AWG STR)	BGC-35	0.088
Ground Clamp (1/0 AWG STR - 4/0 AWG STR)	BGC-95	0.154





Assembly Instructions



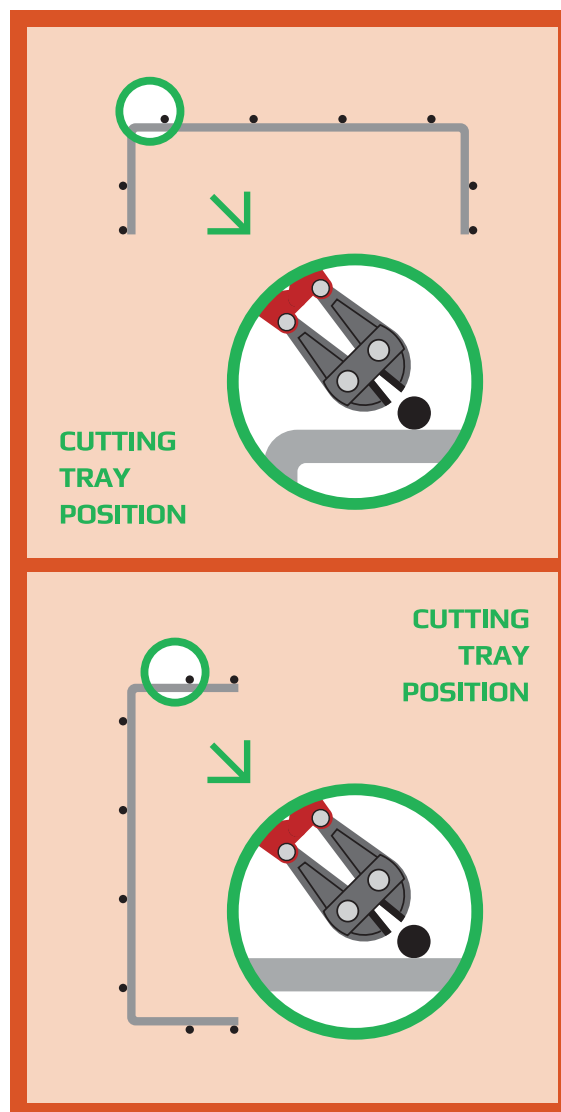
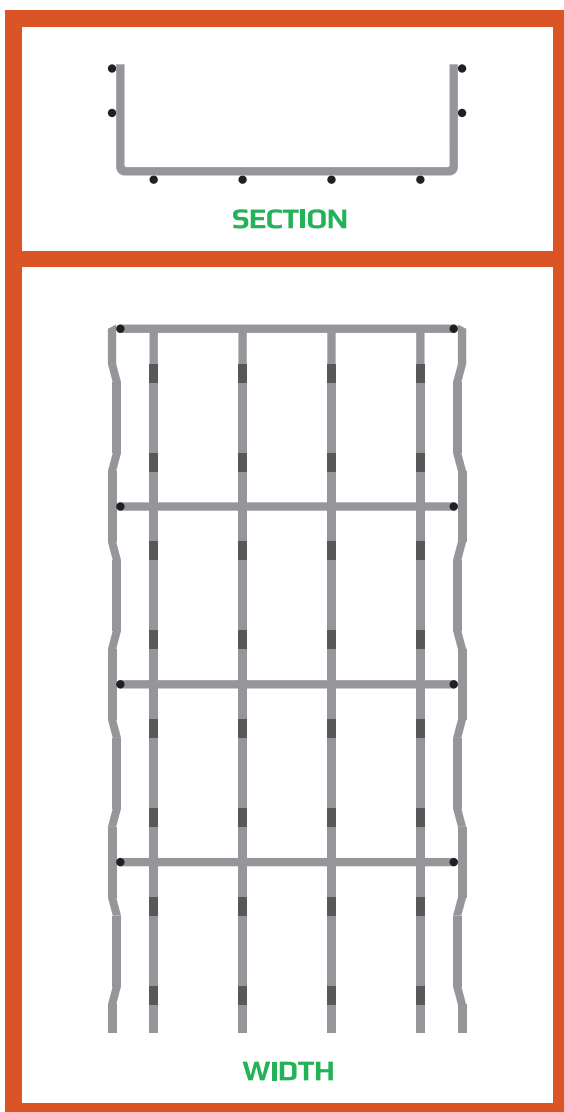
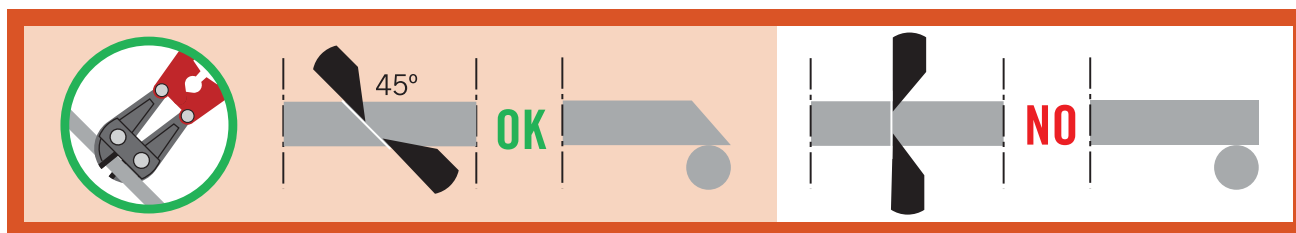
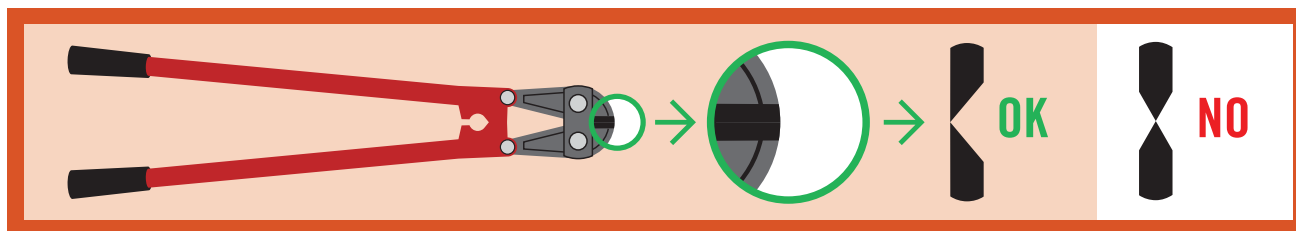
MP HUSKY™

WIRE MANAGEMENT BY **3E basor**

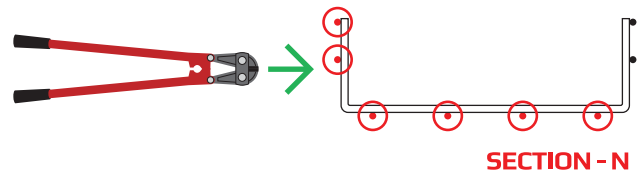
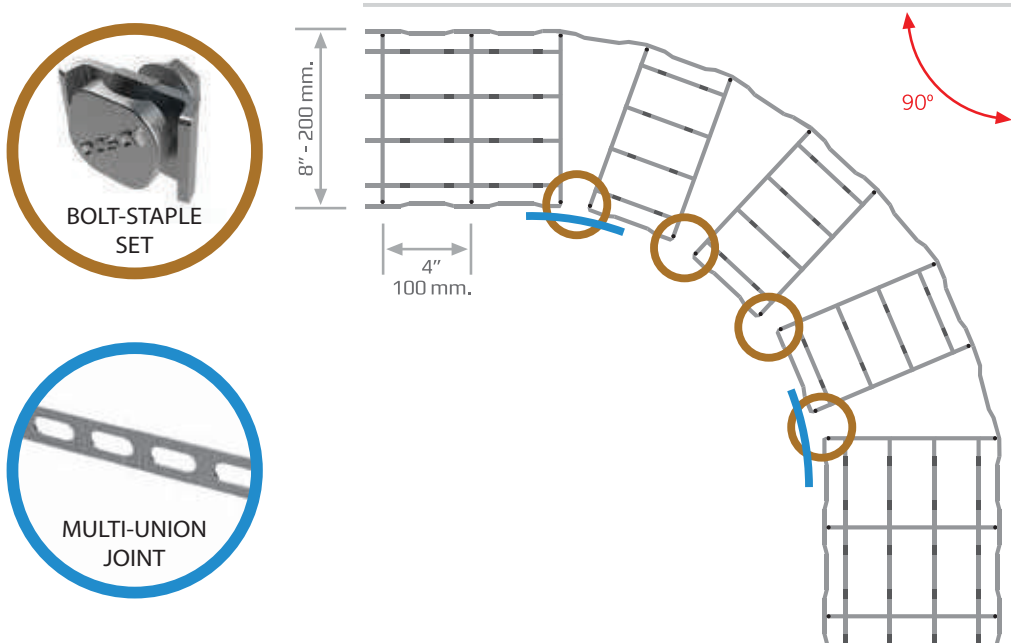
HOW TO CUT

Always use wire cutters with offset blades.

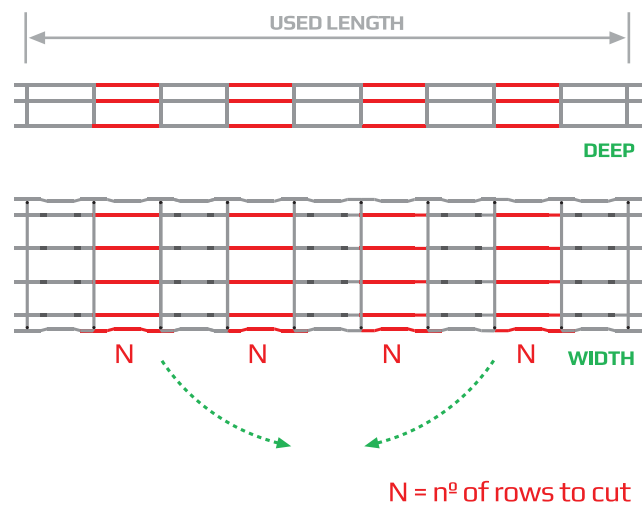
Cut as close as you can to where horizontal and vertical rods cross each other, as shown.



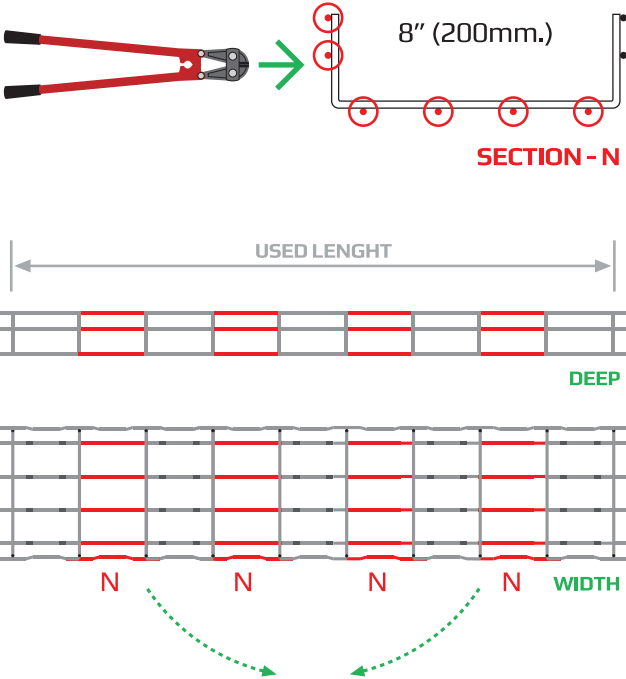
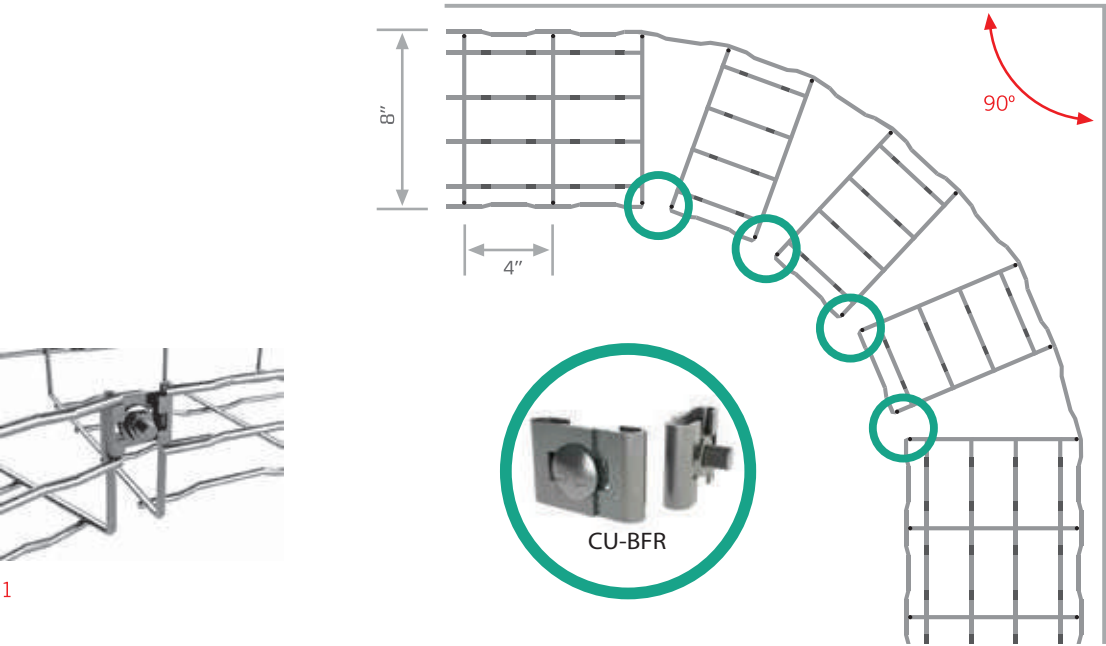
LARGE RADIUS HORIZONTAL BENDS - RIGHT ANGLE



WIDTH (IN)	NO.	ACCESSORIES REQUIRED
2	2	4 Bolt-Staple Sets, 1 Multi-Union Joint
4	3	6 Bolt-Staple Sets, 1 Multi-Union Joint
6	4	8 Bolt-Staple Sets, 1 Multi-Union Joint
8	4	6 Bolt-Staple Sets, 2 Multi-Union Joints
12	6	8 Bolt-Staple Sets, 2 Multi-Union Joints
16	8	10 Bolt-Staple Sets, 2 Multi-Union Joints
20	9	11 Bolt-Staple Sets, 2 Multi-Union Joints
24	11	12 Bolt-Staple Sets, 2 Multi-Union Joints



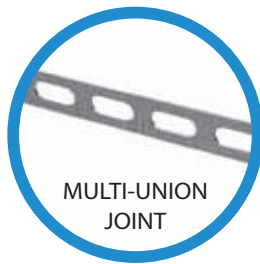
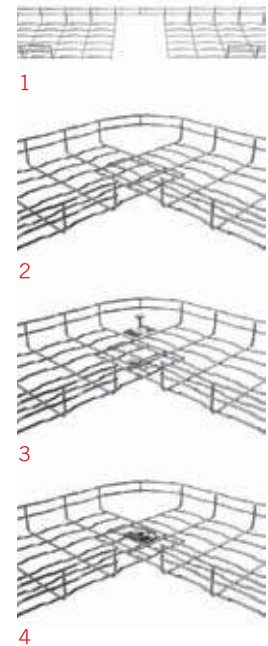
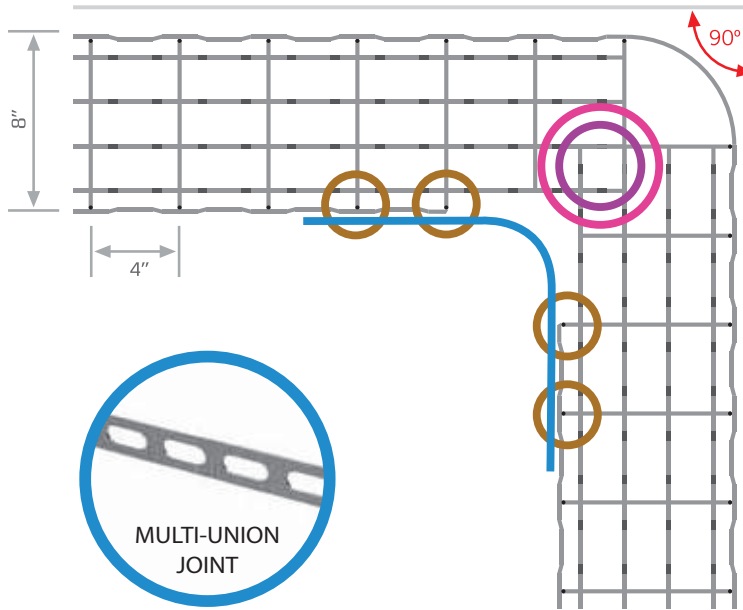
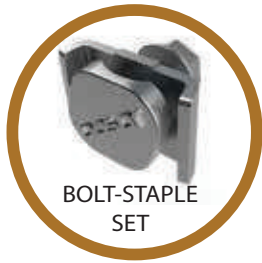
LARGE RADIUS HORIZONTAL BENDS - RIGHT ANGLE



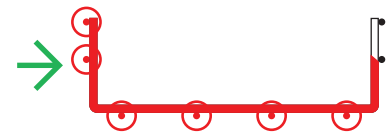
N = nº of rows to cut

WIDTH (IN)	NO.	ACCESSORIES REQUIRED
4	2	CU-BFR
6	4	CU-BFR
8	4	CU-BFR
12	6	CU-BFR
16	8	CU-BFR
20	9	CU-BFR
24	11	CU-BFR

SMALL RADIUS HORIZONTAL BENDS - RIGHT ANGLE

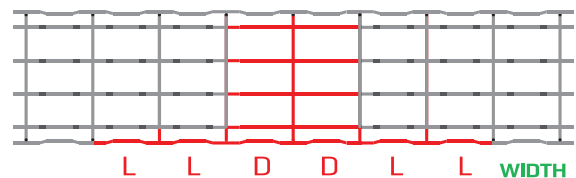
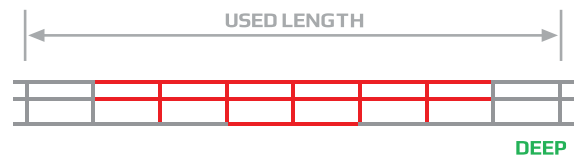


SECTION - L



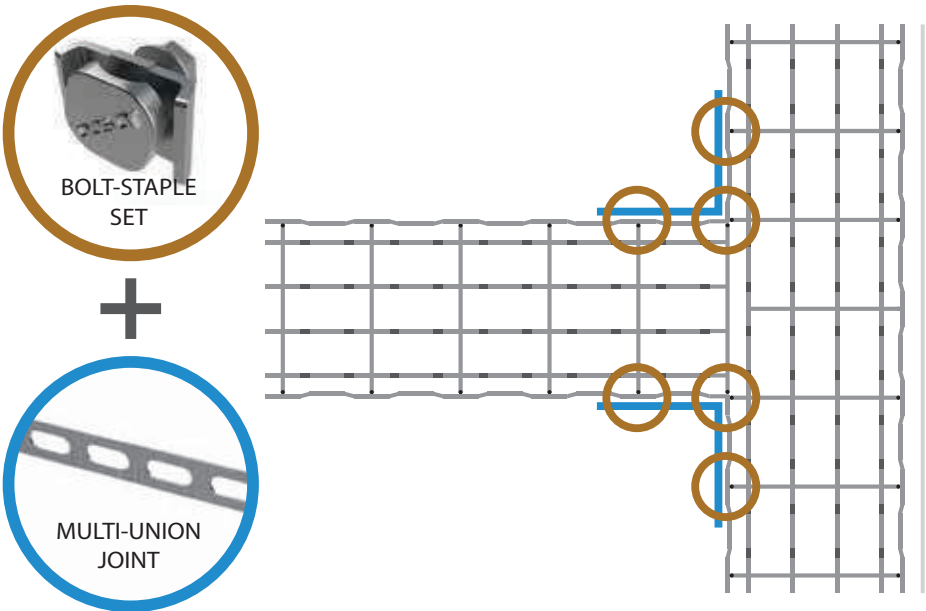
SECTION - D

WIDTH (IN)	D	L	ACCESSORIES REQUIRED
2	-	1	1 Bolt-Staple Set
4	1	1+1	5 Bolt-Staple Sets, 1 Multi-Union Joint
6	1	1+1	5 Bolt-Staple Sets, 1 Multi-Union Joint
8	2	2+2	4 Bolt-Staple Sets, 1 Multi-Union Joint, 2 SSC Hold Down Clamps, 1 Bolt-Nut Set
12	2	2+2	4 Bolt-Staple Sets, 1 Multi-Union Joint, 2 SSC Hold Down Clamps, 1 Bolt-Nut Set
16	2	3+3	4 Bolt-Staple Sets, 1 Multi-Union Joint, 2 SSC Hold Down Clamps, 1 Bolt-Nut Set
20	2	4+4	4 Bolt-Staple Sets, 1 Multi-Union Joint, 2 SSC Hold Down Clamps, 1 Bolt-Nut Set
24	2	5+5	4 Bolt-Staple Sets, 1 Multi-Union Joint, 2 SSC Hold Down Clamps, 1 Bolt-Nut Set

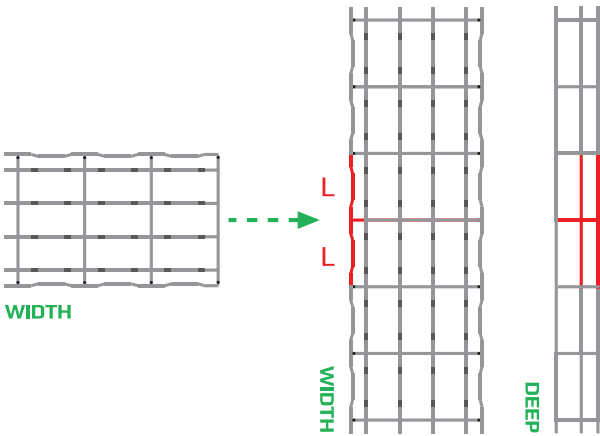
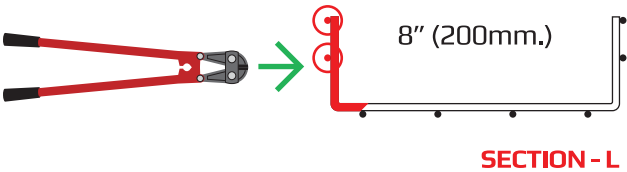


D and L = n° of rows to cut

T/CROSS - RIGHT ANGLE

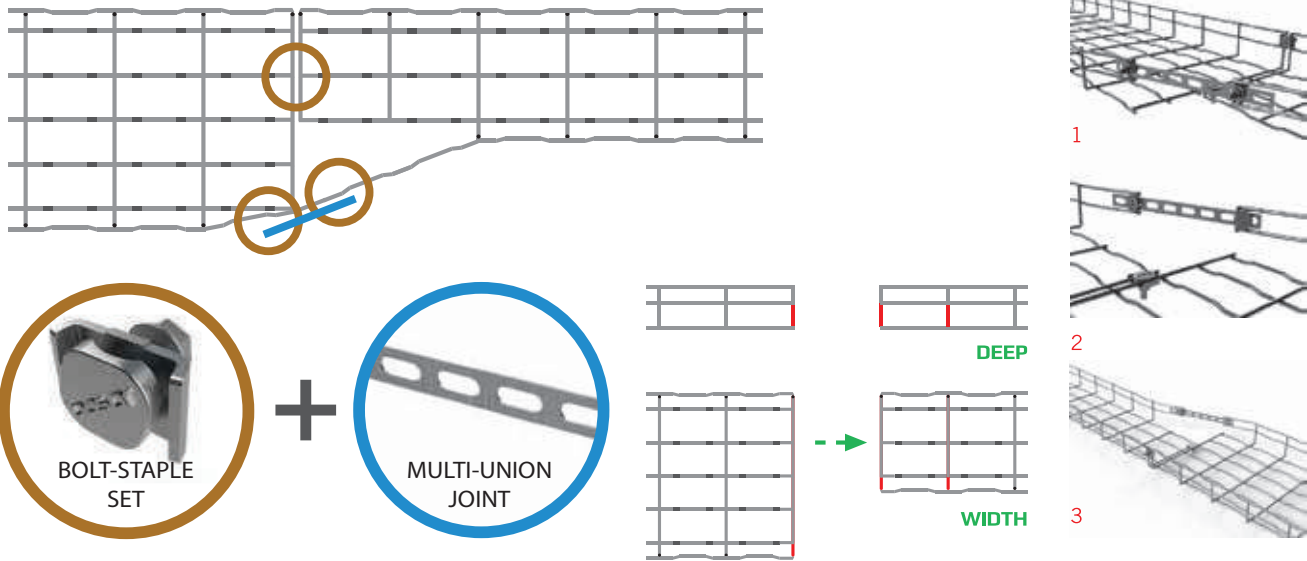


WIDTH (IN)	L	ACCESSORIES REQUIRED (TEE)	ACCESSORIES REQUIRED (CROSS)
2	1	6 Bolt-Staple Sets, 2 Multi-Union Joints	12 Bolt-Staple Sets, 4 Multi-Union Joints
4	1	6 Bolt-Staple Sets, 2 Multi-Union Joints	12 Bolt-Staple Sets, 4 Multi-Union Joints
6	2	6 Bolt-Staple Sets, 2 Multi-Union Joints	12 Bolt-Staple Sets, 4 Multi-Union Joints
8	2	6 Bolt-Staple Sets, 2 Multi-Union Joints	12 Bolt-Staple Sets, 4 Multi-Union Joints
12	3	6 Bolt-Staple Sets, 2 Multi-Union Joints	12 Bolt-Staple Sets, 4 Multi-Union Joints
16	4	6 Bolt-Staple Sets, 2 Multi-Union Joints	12 Bolt-Staple Sets, 4 Multi-Union Joints
20	5	6 Bolt-Staple Sets, 2 Multi-Union Joints	12 Bolt-Staple Sets, 4 Multi-Union Joints
24	6	6 Bolt-Staple Sets, 2 Multi-Union Joints	12 Bolt-Staple Sets, 4 Multi-Union Joints

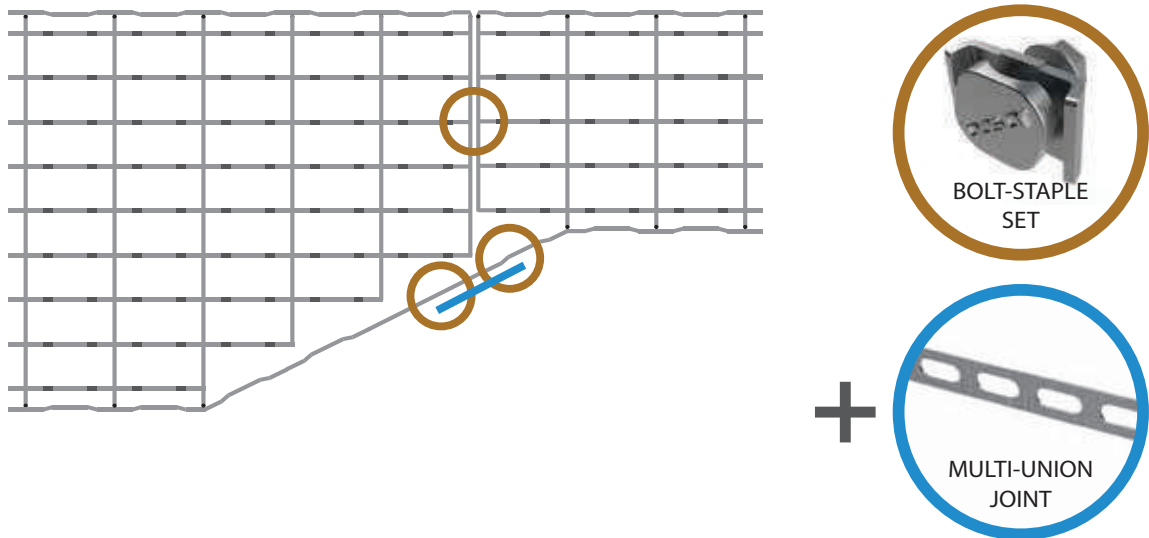


L = n° of rows to cut

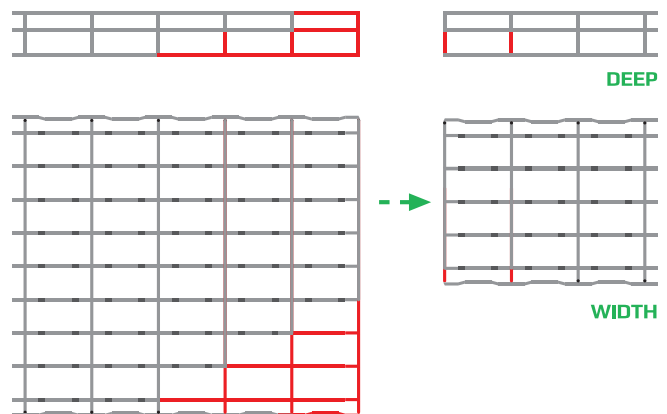
REDUCING SIZE - 4"



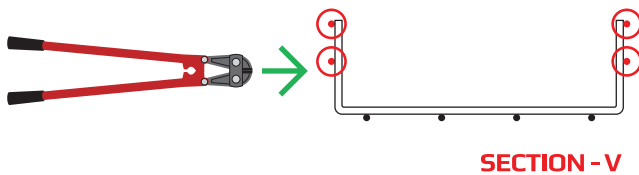
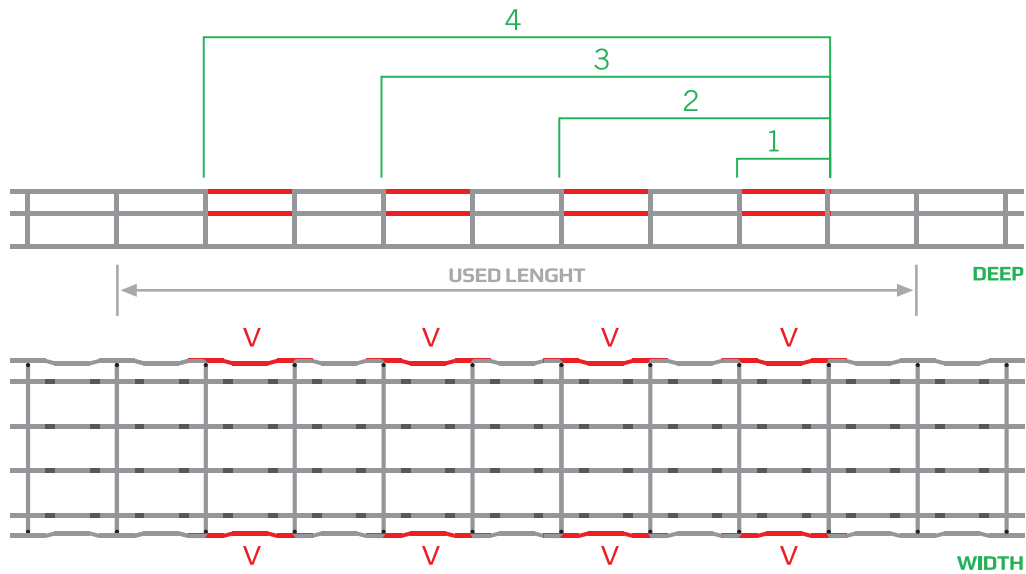
REDUCING SIZE - 8"



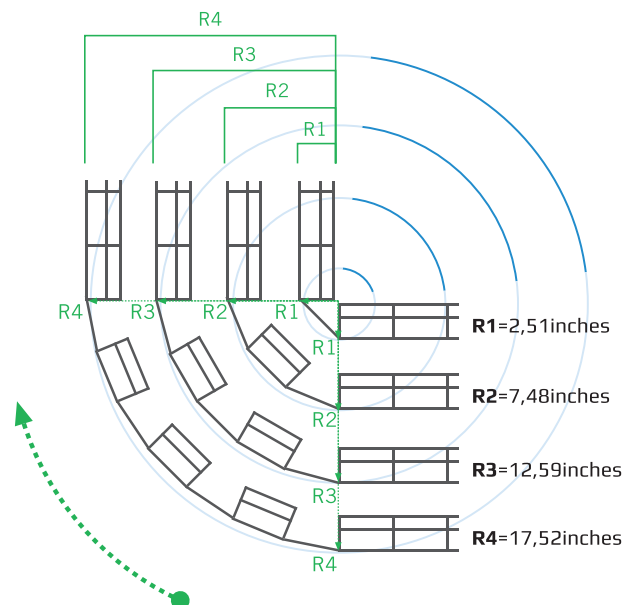
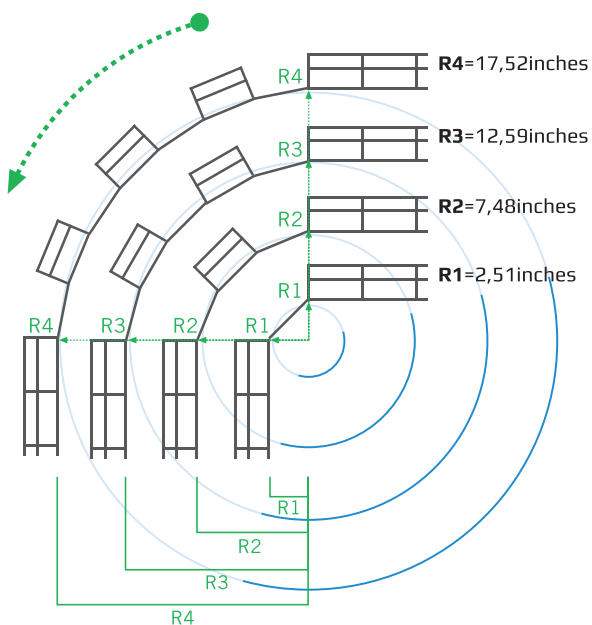
CHOOSE THE ONE YOU NEED



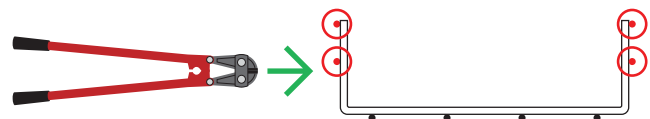
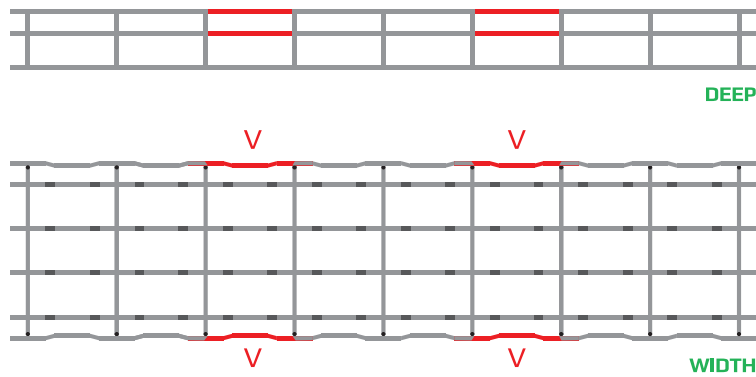
VERTICAL BENDS



V = n^o of rows to cut

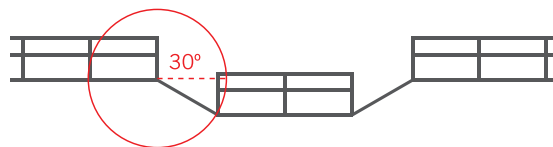
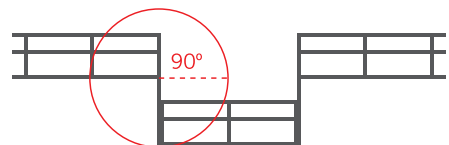
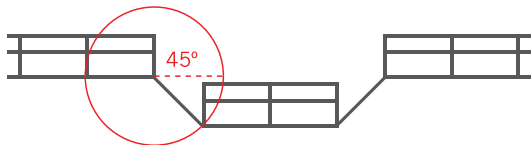


CHANGING LEVEL

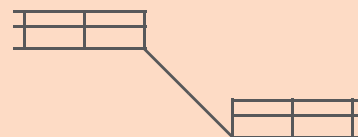
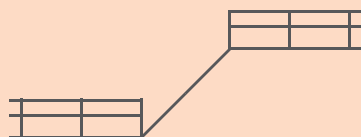
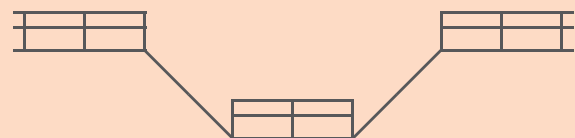
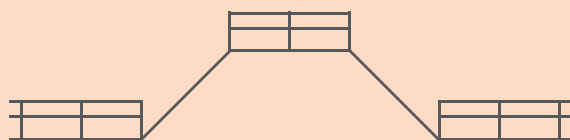


SECTION - V

$V = n^{\circ}$ of rows to cut



OTHER POSSIBILITIES



SPECIFICATIONS

1.0 Specification for Husky Wire Mesh Cable Support System

2.0 Manufacturer: MP Husky

3.0 BF2R Series, (2" and 4" Deep), Product Description: The BF2R Series Wire Basket Cable Tray is formed from high strength steel wire mesh. The mesh is fabricated using a 2"x4" pattern, with welds at all intersections. Wire size for each tray type is optimized for both quality and strength. The BF2R Series comes with pre-installed splice connectors that allow for easy installation without the use of tools.

3.1 Material: Standard tray finish shall be electroplated zinc (EZ). Other finish options available are as follows: Powder Coated (PC*).

3.2 Connectors: Wire Basket Cable Tray shall have pre-installed quick splice connectors (The BF2R Series is Classified by UL for use as an equipment grounding conductor).

3.3 Straight sections shall be supplied in 10' (3m/118-1/8") lengths.

3.4 Safety Edge: Wire Basket Cable Tray shall have a safety edge to prevent inadvertent damage to cables or installers.

4.0 BFR Series, (2", 4", and 6" deep), Product Description: BFR Series Wire Basket Cable Tray is formed from high strength steel wire mesh. The mesh is fabricated using a 2"x4" pattern, with welds at all intersections. Wire size for each tray type is optimized for quality and strength.

4.1 Material: Standard tray finish shall be electroplated zinc (EZ). Other finish options available are as follows: Hot Dip Galvanized After Fabrication (HDGAF), Stainless Steel 304 (SS304), Stainless Steel 316 (SS316), and Powder Coated (PC*).

4.2 Straight sections shall be supplied in 10' (3m/118-1/8") lengths.

4.3 Safety Edge: Wire Basket Cable Tray shall have a safety edge to prevent inadvertent damage to cables or installers.

5.0 Tray shall be UL Classified for use as an equipment ground conductor, when installed according to manufacturer's instructions.

6.0 Fittings: Fittings shall be field fabricated from straight sections, based on the needs of the installer. MP Husky recommends that wire basket is cut using a cutting tool with offset blades (WBCT). MP Husky offers a variety of different options for creating fittings and field modifications.

7.0 The Wire Basket Cable Tray shall be supplied by a member of NEMA VE-1 and installed in accordance with NEMA VE-2 "Cable Tray Installation Guidelines".

STANDARD FINISHES

Electroplated Zinc (EZ)

Electroplating is the process of applying a zinc coating to a product by electrolysis after the product has been fabricated. Electroplating requires that current be applied through the product, thereby attracting the zinc to the product. The Electroplated Zinc process creates a smooth, shiny finish that is capable of providing corrosion protection.

Hot Dip Galvanized After Fabrication (HDGAF)

Hot Dip Galvanizing After Fabrication is the process of applying a zinc coating by dipping the product in a bath of molten zinc after the part has been fabricated. While the steel is in the bath of molten zinc, the iron in the steel metallurgically reacts with the molten zinc to form a tightly-bonded alloy coating that provides superior corrosion protection to steel. Hot Dip Galvanized coating thicknesses vary depending on the thickness of the base metal, immersion rate, temperature of the bath, immersion period, and withdrawal rate. If the steel is exposed to the elements due to mechanical damage, the surrounding zinc corrodes sacrificially, protecting the underlying steel from corrosive attack.

Stainless Steel (SS304)

Stainless Steel 304 is steel alloyed with chromium and other elements to increase the corrosion protection of the steel. The chromium naturally reacts with the oxygen in the air, creating a chromium oxide layer that is resistant to corrosion.

Stainless Steel (SS316)

Stainless Steel 316 is similar to Stainless Steel 304, but alloyed with molybdenum. The molybdenum creates an additional layer of corrosion protection.

Powder Coated (PC)

Powder Coating is a process that begins with a dry powder and ends with a smooth, cured coating. The powder is electrostatically charged creating a positive attraction that draws the powder to the metal product. Powder is applied to the part, ensuring all areas are coated as evenly and thoroughly as possible. In order to cure the powder on the product, the product is then placed in an oven to allow the powder to melt and flow into an even coating.



MP HUSKY™

WIRE MANAGEMENT BY **3E basor**

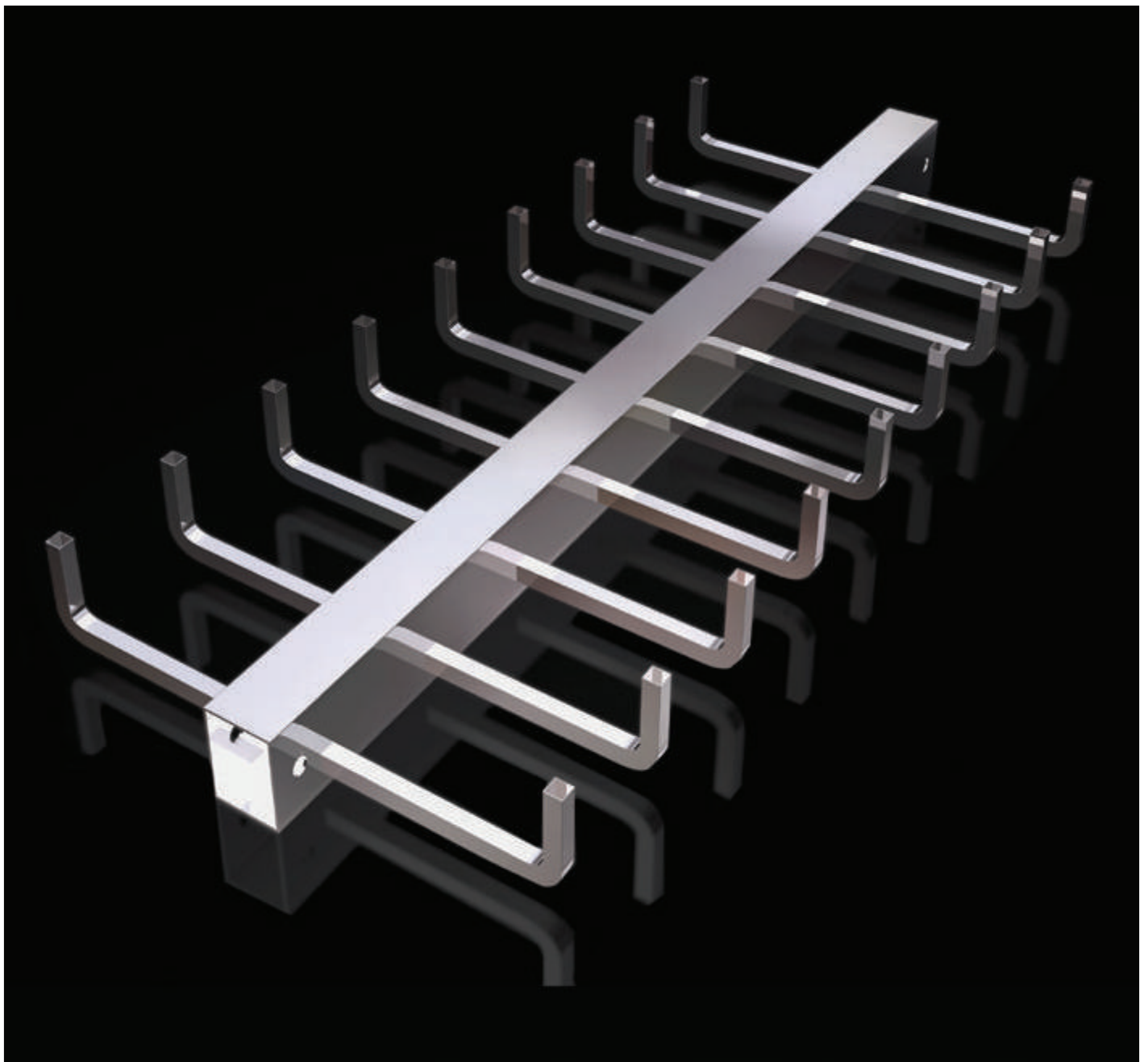


MP HUSKY[™]
CABLE TRAY & CABLE BUS

Husky Centray

Center Supported Cable Tray

Technical Information.....	Pg. 195
Advantages.....	Pgs. 196-197
Introduction to Husky Centray	Pgs. 198-199
Ordering Information.....	Pgs. 200-203
Connectors & Couplings.....	Pgs. 204-205
Accessories/Covers	Pgs. 206-209





Technical Information

HUSKY CENTRAY—CENTER HUNG AND WALL MOUNT CABLE TRAYS

Material: The spine and the rungs are manufactured from 6063-T6 high strength aluminum. The spine is 3" high and 1-1/2" wide. The rungs are 1/2" wide and 1/2" high.

Construction: The spine is punched on top or bottom to accept the insertion of rungs. The rungs are inserted through the spine and fastened by a four point high pressure staking operation that secures the rung in two locations on each side of the spine. The staking operation holds the rungs in place preventing loose rungs. The ends of the rungs are then bent upward to the desired fill depth (3", 4" or 6"), measured from the cable support surface to the top of the rung. The rung tips are rounded to prevent sharp edges.

Accessories: Each tray is supplied with a splice/hanger connector that is used to fasten the tray sections together and can also be used to hang the tray from 1/2" diameter hanger rods. The splice/hanger connectors are rectangular in shape and fit inside the tray spine and are secured with 3/8" bolts and nuts that pass through the sides. We offer a complete line of accessories and connectors to aid in installation. Wall mount trays also include three 3/4" wall spacers to space the tray off the wall and aid installation on uneven surfaces.

Lengths: The trays are supplied in 10' or 12' lengths that allow 10' or 12' support spacing, when hanging tray with the supplied splice/hanger connector.

Widths: All widths are measured to the inside of the rungs, except for bottom rung mount 6", 9", and 12" wide trays. These widths include an additional 1-1/2" for the spine width.

(Example: a 6" wide bottom mount width is 7-1/2")

HUSKY CENTRAY NEMA LOAD AND DEFLECTION TABLES

TOP MOUNT RUNG NEMA 12C

Support Span	5 foot		6 foot		8 foot		10 foot		12 foot	
	Load	Defl.	Load	Defl.	Load	Defl.	Load	Defl.	Load	Defl.
	576	0.332	400	0.478	225	0.85	144	1.328	100	1.913
Meets CSA Class D (179 kg per meter on a 3 meter span) Exceeds CSA Class C (97 kg per meter on a 3 meter span) 1.5 Safety Factor										

BOTTOM MOUNT RUNG NEMA 12B

Support Span	5 foot		6 foot		8 foot		10 foot		12 foot	
	Load	Defl.	Load	Defl.	Load	Defl.	Load	Defl.	Load	Defl.
	455	0.262	316	0.378	178	0.672	114	1.049	79	1.511
Exceeds CSA Class C (97 kg per meter on a 3 meter span) 1.5 Safety Factor										

Note: Wall mount trays require mounting on the ends and in the middle of 10' or 12' sections to meet loading requirements.

Advantages of Husky Centray Support Systems

- ◆ Cable tray sections are securely joined by only two bolts or an EZ-Clip, which greatly reduces installation costs.
- ◆ Reduced cable installation headaches, as the cable tray is easily accessed from the side. Cable loading, inspection and retrofit is simplified.
- ◆ For lightweight reliability, Husky Centray systems are made from corrosion-resistant, high-strength aluminum.
- ◆ EZ-Clip speeds installation time and minimizes hardware.
- ◆ Over 50% less support hardware than standard cable trays.
- ◆ Standard cable tray fittings are no longer needed for elbows, tees and crosses.
- ◆ For safety and reliability, rungs are firmly attached by the four-point staking method.
- ◆ All rungs have smooth, chamfered ends.



Top and bottom rung center-supported cable tray and wall rack are CSA certified. (LR 107538)

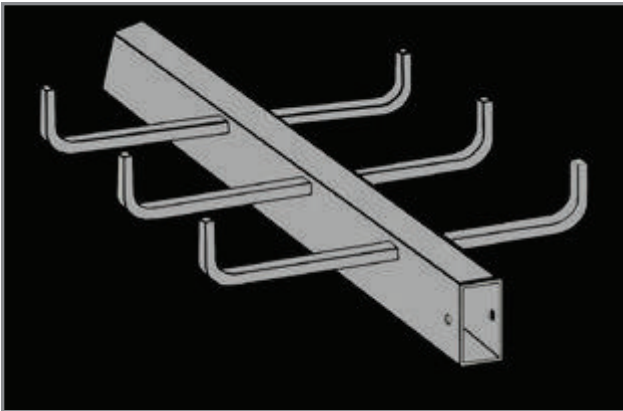
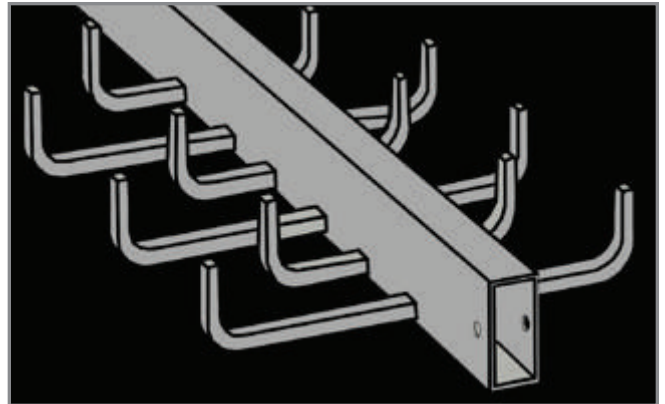
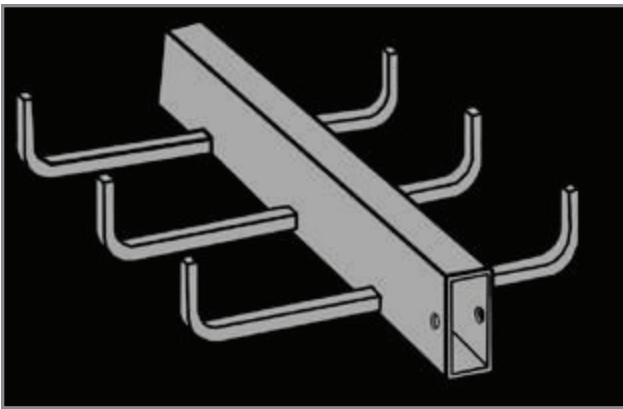
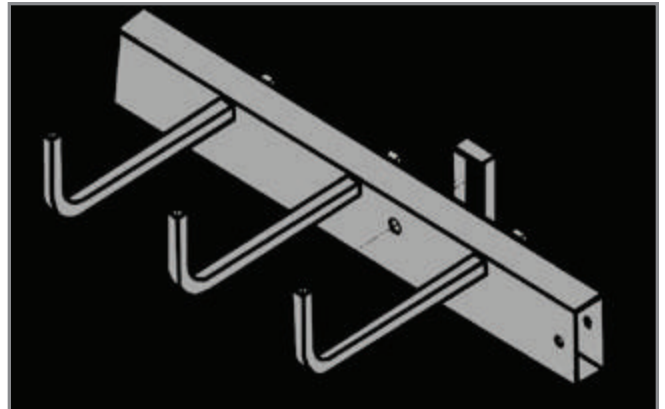


Top rung Husky Centray meets NEMA Load Class 12C and bottom rung Husky Centray meets NEMA Load Class 12B, in accordance with NEMA Standard VE-1.



Husky Centray systems are classified by Underwriters Laboratories as to their suitability for use as an equipment ground conductor.

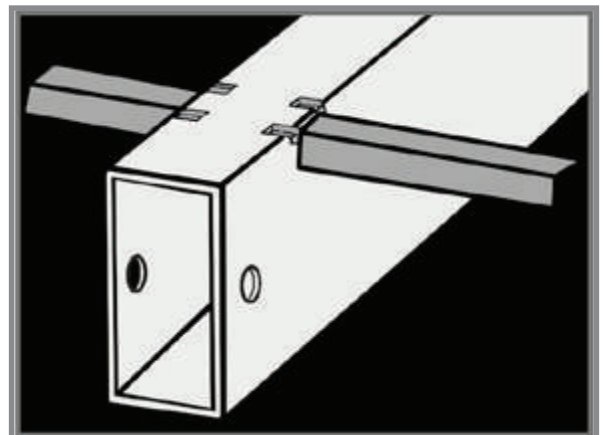


**Top Rung****Dual-Width Rung****Bottom Rung****Wall Rack**

Safe, Secure Rung Attachment

Husky Centray rungs come attached transversely through either the top or bottom of the center tubular rail. Each rung is securely staked to the center rail in four places. This provides additional strength and rigidity for reliable cable support. The chances for damaging and loosening rungs during transportation and cable installation are significantly reduced with this safe, reliable and secure method of rung attachment.

Husky Centray rung tips are chamfered to provide a smooth end and limit possible damage to cables or personnel.

4-Point Staking

INTRODUCTION

For an integrated wire management system, Husky Centray simplifies the support and routing of power and telecom / teledata cabling. A single hanger rod is used at each support point. This makes installation easier by reducing support requirements and eliminating the need to pull cable through the trapeze supports. With Husky Centray, cables can be laid in on both sides.

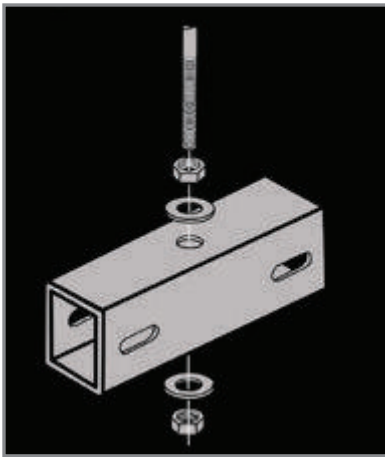
Easy Support and Coupling

Both the support and connection of Husky Centray sections is accomplished by a single splice coupling designed to save time. If additional support is needed beyond the 12 foot or 3 meter intervals, simply use the intermediate support hanger.

Note: Splice coupling and spine attachment hardware are included with each straight section.

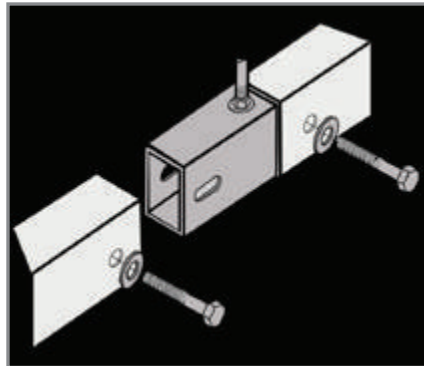
Step 1

Insert 1/2" rod into coupling



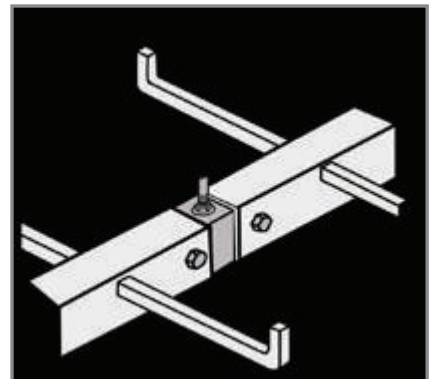
Step 2

Attach center section to coupling



Step 3

Slide together and tighten



Save time and money:

No elbow fittings required.

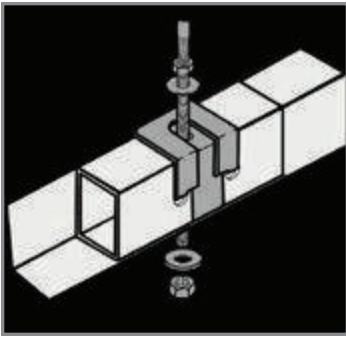
50% less labor.

75% less components and hardware than traditional systems.

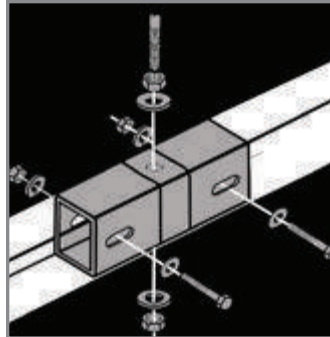
All rungs come firmly pre-attached.



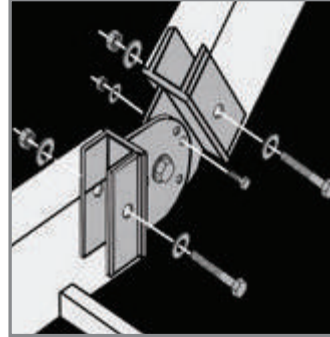
Reduce Fittings with Just Four Connectors Save Time with the EZ-Clip



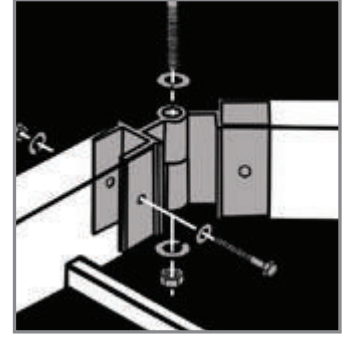
Straight Splice Connector
w/EZ-Clip



Straight Splice Connector
w/Bolts



Vertical Hinge
Connector

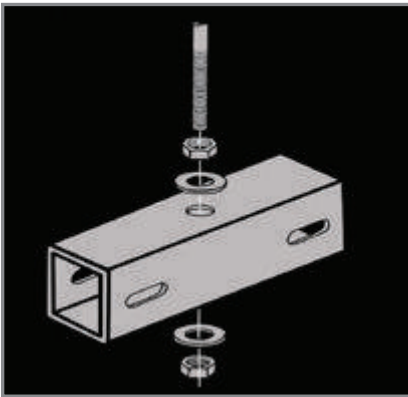


Horizontal Hinge
Connector

This exclusive new method allows for easy coupling of Husky Centray sections, without the nuts and bolts.

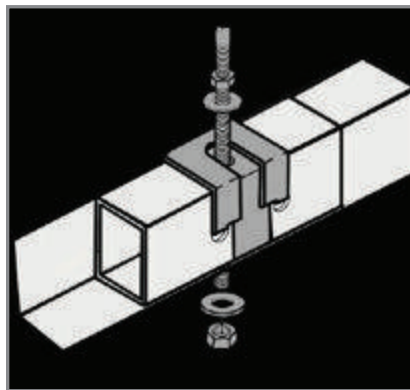
Step 1

Insert 1/2" rod into coupling



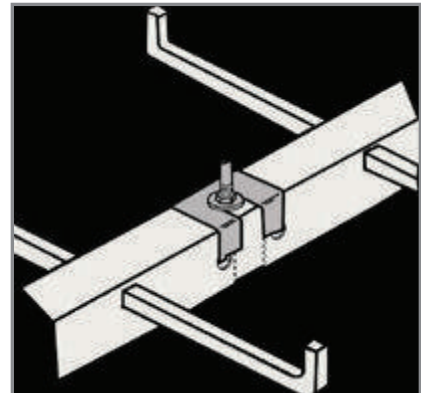
Step 2

Slide sections together and place EZ-Clip around threaded rod



Step 3

Clip in place & tighten

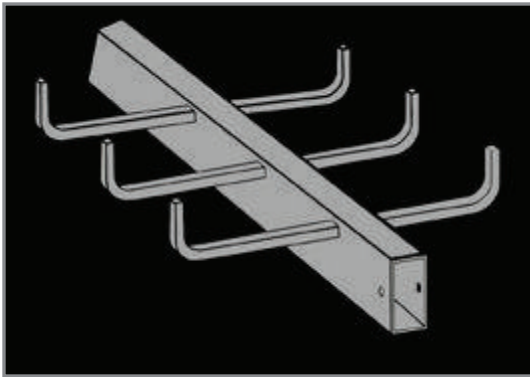


EZ-Clip can be used to attach to existing threaded rod due to its unique wrap-around design.

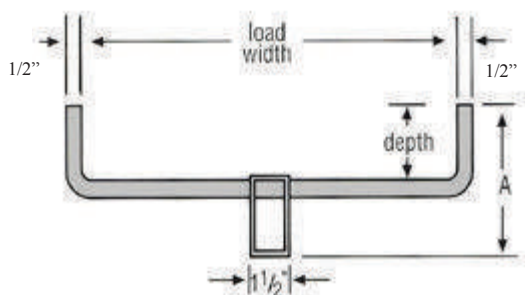
Top Rung Numbering System

A12T4-12-144					
A	12	T	4-	12-	144
Material	Rung Spacing	Style of Tray	Depth	Width	Length
Material: A=Aluminum	Rung Spacing: 3" 6" 9" 12" 18"	Tray Types: T=Top Mount Rung L=Bottom Mount Rung WT=Wall Mount Top Rung Single Tier WL=Wall Mount Bottom Rung Single Tier DT=Wall Mount Top Rung Double Tier	Depth: 3" 4" 6"	Width: 6" 9" 12" 18" 24"	Lengths: 144" (12 ft.) 120" (10 ft.)

Other Technical Data



Husky Centray Load Depth (in.)	A Overall Height: Top Rung Design
3"	5-7/8"
4"	6-7/8"
6"	8-7/8"



	LOAD WIDTH	OUTSIDE WIDTH OVERALL
Husky Centray Width (in.)	Top Rung	Top Rung
6"	6"	7"
9"	9"	10"
12"	12"	13"
18"	18"	19"
24"	24"	25"

15-CENTER RAIL

To ensure data available is most current, please visit www.MPHUSKY.com

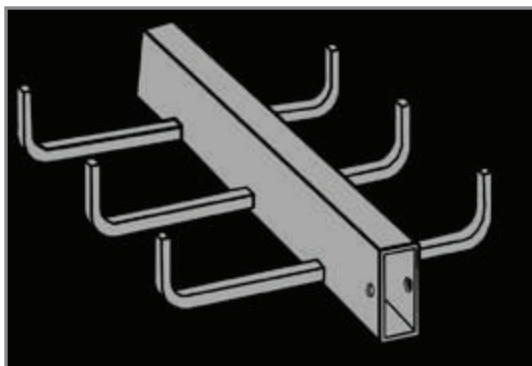




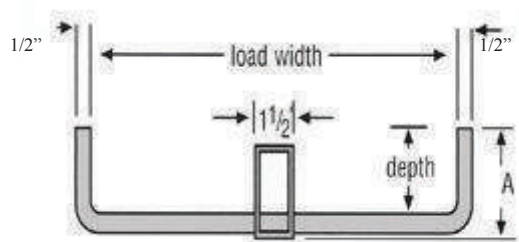
Bottom Rung Numbering System

A12L4-12-144					
A	12	L	4-	12-	144
Material	Rung Spacing	Style of Tray	Depth	Width	Length
Material: A =Aluminum	Rung Spacing: 3" 6" 9" 12" 18"	Tray Types: T =Top Mount Rung L = Bottom Mount Rung WT =Wall Mount Top Rung Single Tier WL =Wall Mount Bottom Rung Single Tier DT =Wall Mount Top Rung Double Tier	Depth: 3" 4" 6"	Width: 6" 9" 12" 18" 24"	Lengths: 144" (12 ft.) 120" (10 ft.)

Other Technical Data



Husky Centray Load Depth (in.)	A Overall Height: Bottom Rung Design
3"	3-1/8"
4"	4-1/8"
6"	6-1/8"



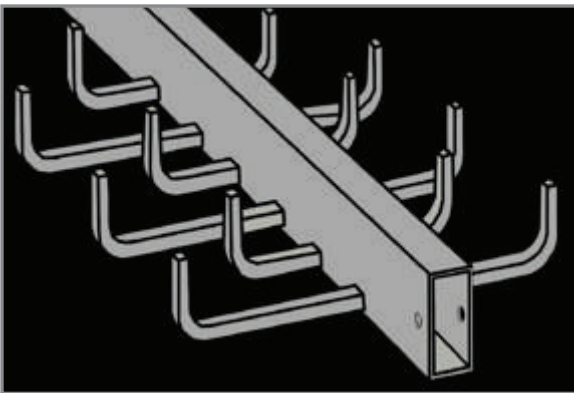
	LOAD WIDTH	OUTSIDE WIDTH OVERALL
Husky Centray Width (in.)	Bottom Rung	Bottom Rung
6"	7-1/2"	8-1/2"
9"	10-1/2"	11-1/2"
12"	13-1/2"	14-1/2"
18"	18"	19"
24"	24"	25"

To ensure data available is most current, please visit www.MPHUSKY.com

Dual Width Rung Numbering System

A12L4-6/12-144					
A	12	L	4-	6/12-	144
Material	Rung Spacing	Style of Tray	Depth	Width	Length
Material: A= Aluminum	Rung Spacing: 3" 6" 9" 12" 18"	Tray Types: T= Top Mount Rung L= Bottom Mount Rung (Dual Width) WT= Wall Mount Top Rung Single Tier WL= Wall Mount Bottom Rung Single Tier DT= Wall Mount Top Rung Double Tier	Depth: 3" 4" 6"	Width: 6" 9" 12" 18" 24"	Lengths: 144" (12 ft.) 120" (10 ft.)

Other Technical Data



Unique dual-width rungs provide four separate cable compartments without dividers.

Dual-width rung catalog numbers utilize our standard format, shown above, except both widths are shown. (see yellow box above)

Patent Pending

15-CENTER RAIL



To ensure data available is most current, please visit www.MPHUSKY.com



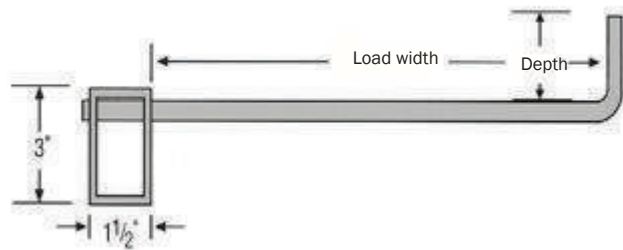
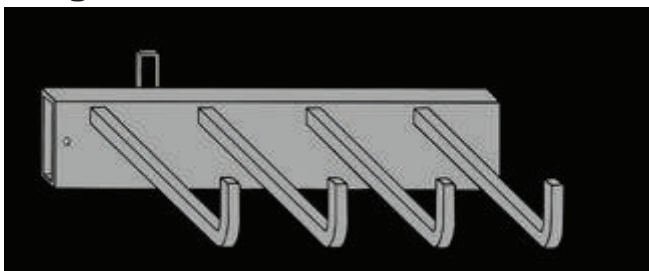
Wall Rack Numbering System

A12WL4-6-144					
A	12	WL	4-	6/12-	144
Material	Rung Spacing	Style of Tray	Depth	Width	Length
Material: A=Aluminum	Rung Spacing: 3" 6" 9" 12" 18"	Tray Types: T =Top Mount Rung L =Bottom Mount Rung (Dual Width) WT =Wall Mount Top Rung Single Tier WL =Wall Mount Bottom Rung Single Tier DT =Wall Mount Top Rung Double Tier	Depth: 3" 4" 6" (4" maximum for bottom rung)	Width: 3" 6" 9" 12"	Lengths: 144" (12 ft.) 120" (10 ft.)

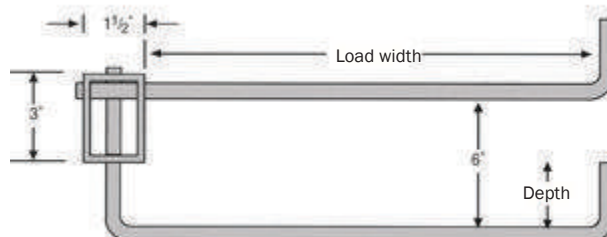
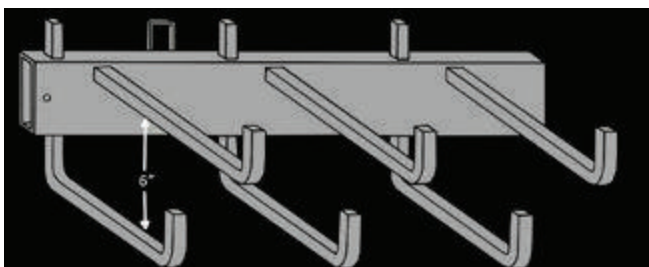
Other Technical Data

- ◆ Available in Single Tier or Double Tier. Only difference in part numbers is that you put both widths for the Double Tier tray (yellow box above).
- ◆ Mount directly to the wall with 3 bolts for each 12' section.
- ◆ Three 3/4" spacers are provided with each section.

Single Tier



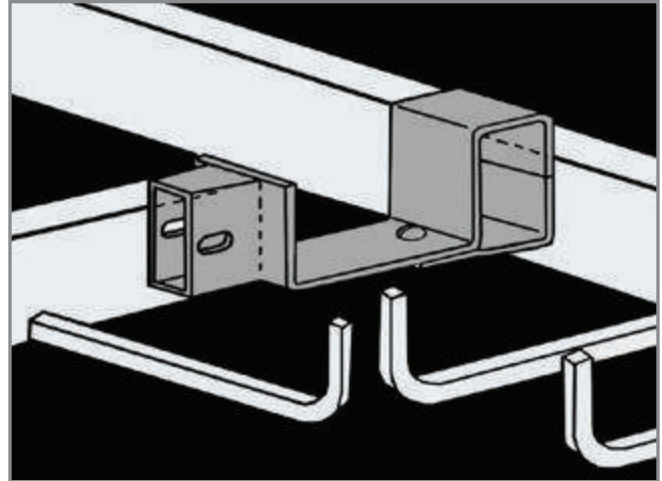
Double Tier



Connectors and Couplings

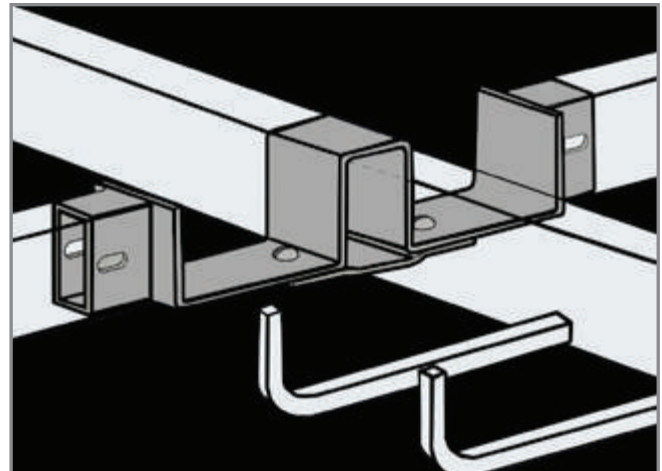
Horizontal Tee / 90° Connector

Tray Width	Bottom Rung Part #	Top Rung Part #
6"	ASP-TL-3	ASP-TT-3
9"	ASP-TL-4-1/2	ASP-TT-4-1/2
12"	ASP-TL-6	ASP-TT-6
18"	ASP-TL-9	ASP-TT-9
24"	ASP-TL-12	ASP-TT-12
Tray Width	Bottom Mounted Wall Rack Part #	Top Mounted Wall Rack Part #
3"	ASP-TL-3	ASP-TT-3
6"	ASP-TL-6	ASP-TT-6
9"	ASP-TL-9	ASP-TT-9
12"	ASP-TL-12	ASP-TT-12



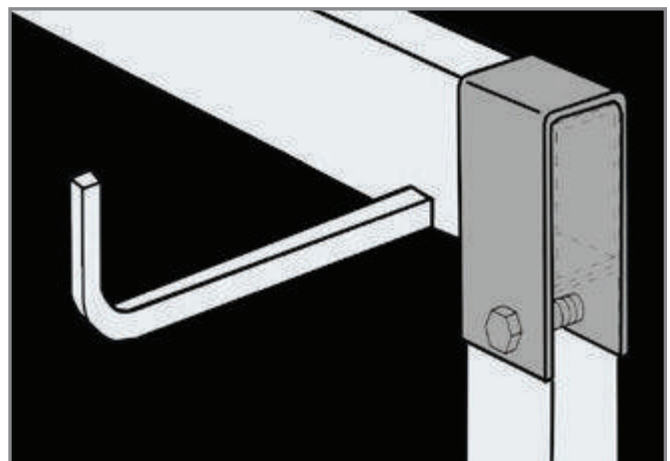
Horizontal Cross Coupling

Tray Width	Bottom Rung Part #	Top Rung Part #
6"	ASP-XL-3	ASP-XT-3
9"	ASP-XL-4-1/2	ASP-XT-4-1/2
12"	ASP-XL-6	ASP-XT-6
18"	ASP-XL-9	ASP-XT-9
24"	ASP-XL-12	ASP-XT-12



Vertical Tee / 90° Connector

Part #
ASP-VT

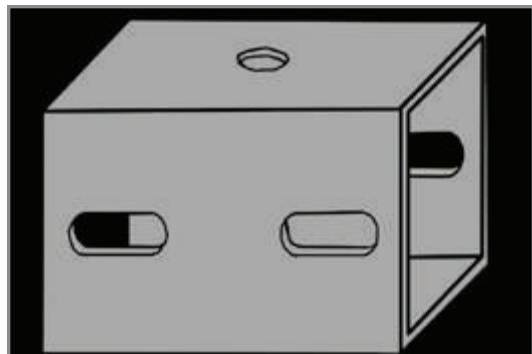


15-CENTER RAIL

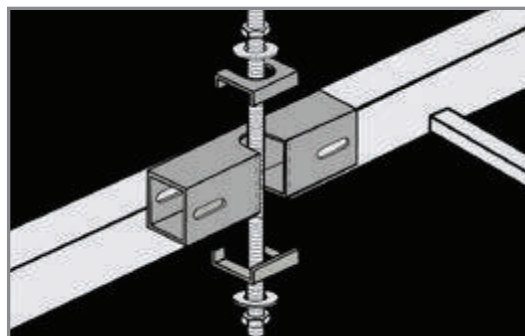


Connectors and Couplings

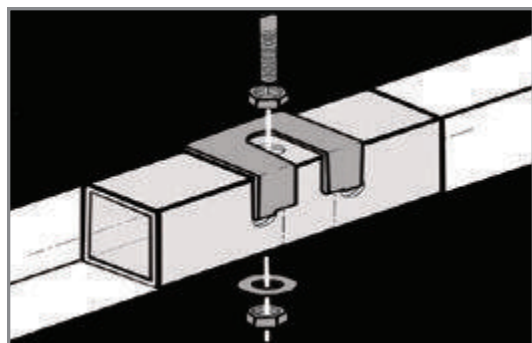
Eliminate the need for fittings with these versatile connectors:



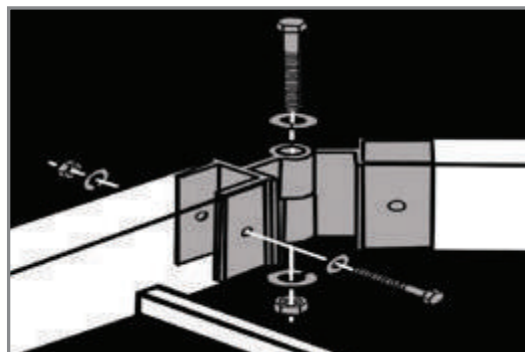
Splice/Hanger Coupling
Part #ASP-CR-B (hardware incl.)



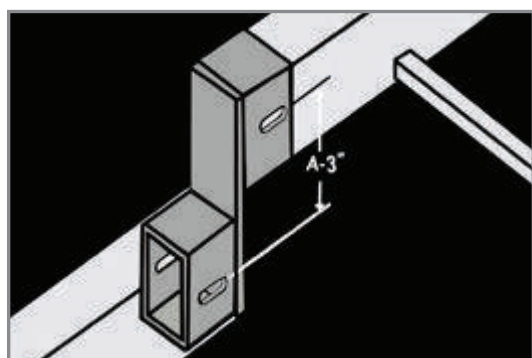
Split Splice/Hanger Coupling
Part #ASP-SPLIT (hardware incl.)



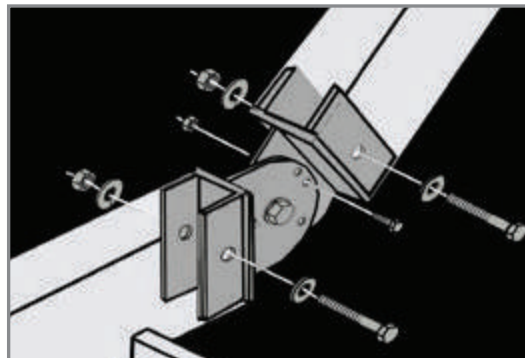
Splice/Hanger Coupling with EZ-Clip (hardware incl.)
Part #ASP-CR-EZ



Horizontal Hinge Connector
Part #AFS-HCR (hardware incl.)



Offset Vertical Coupling
Part #ASP-VOFF-3 (hardware incl.)

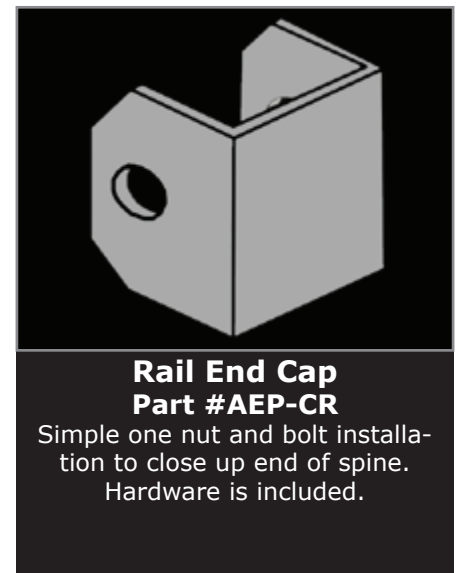
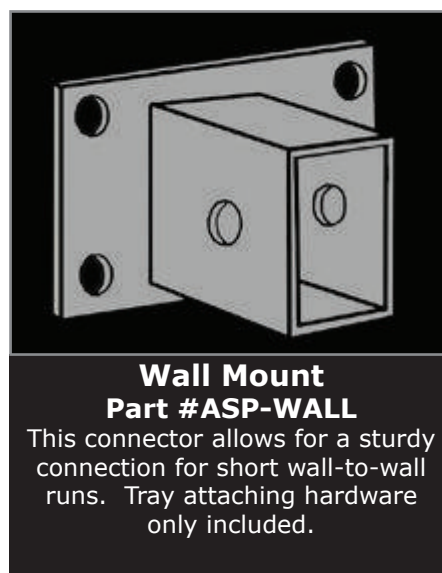
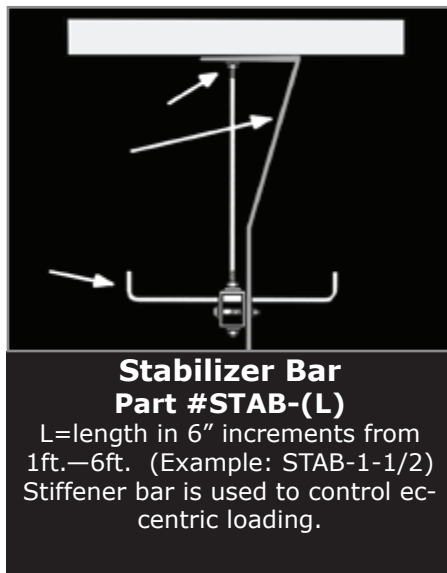
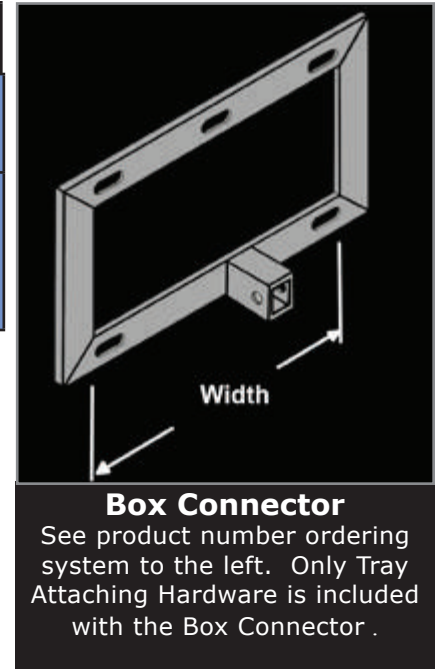


Vertical Hinge Connector
Part #AFS-VCR (hardware incl.)

Accessories

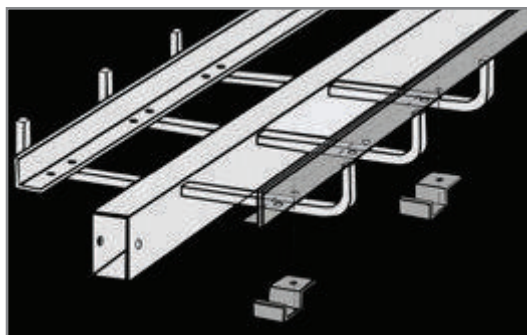
Box Connector

ABC-(T)-W-D			
ABC-	(T)-	W-	D
Box Connector	Tray System	Width	Depth
Box Connector Accessory	For Cable Tray T = Top Mount L = Bottom Mount	Width: 3" 6" 9" 12" 18" 24"	Depth: 3" 4" 6"
	For Wall Rack TR = Top Mount Right Hand TL = Top Mount Left Hand LR = Bottom Mount Right Hand LL = Bottom Mount Left Hand		



15-CENTER RAIL





Barrier Strip

3"

4"

6"

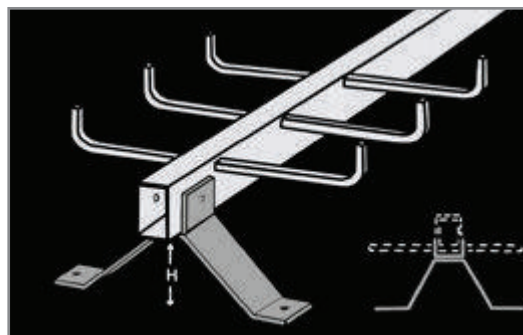
Part

A3S-(L)-CR

A4S-(L)-CR

A6S-(L)-CR

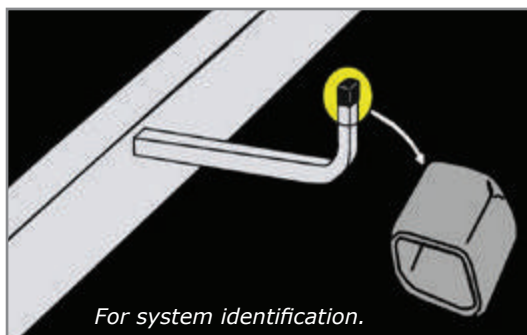
Fixing clamp and screws included.



Universal Floor Support

Part #FLOOR-U

For support of both top and bottom rung designs under raised floors.
Standard height is 4".



For system identification.

Rung Caps

Red

Black

Blue

Orange

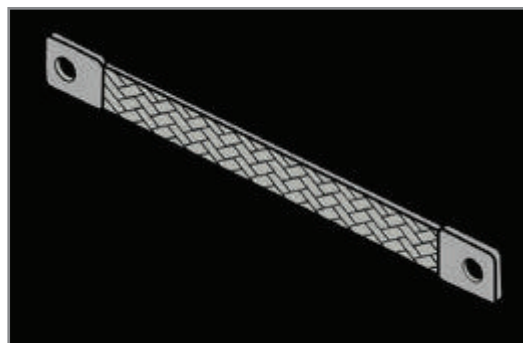
Part

RCAP-Red

RCAP-Black

RCAP-Blue

RCAP-Orange



Grounding Strap

600 Amp Rating

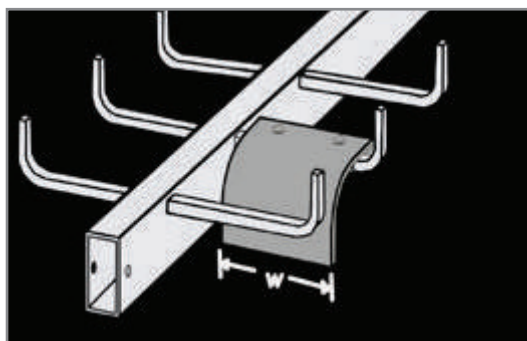
1000 Amp Rating

Part

AFS-CT-600-CR

AFS-CT-1000-CR

Tin plated braided copper.
Standard size is 12" Long.



Bottom Rung

Top Rung

Wall Mount

W

AVD-225

AVD-150

AVD-525

6"

AVD-375

AVD-300

AVD-825

9"

AVD-525

AVD-450

AVD-1125

12"

AVD-750

AVD-750

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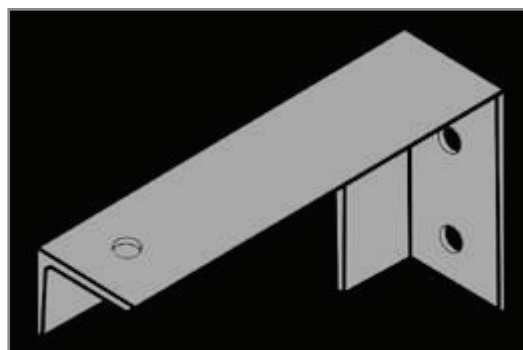
18"

AVD-1050

AVD-1050

--

24"



Wall Bracket

6" Wide

9" Wide

12" Wide

18" Wide

24" Wide

Part

WBK-6

WBK-9

WBK-12

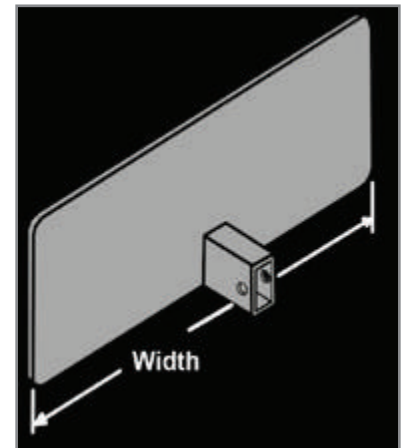
WBK-18

WBK-24

Rugged construction with the ability to hang tray without any special clamps makes this bracket an efficient and economical device.

Blind End

AEP-(T)-W-D			
AEP-	(T)-	W-	D
Blind End	Tray System	Width	Depth
Blind End	For Cable Tray T = Top Mount L = Bottom Mount For Wall Rack TR = Top Mount Right Hand TL = Top Mount Left Hand LR = Bottom Mount Right Hand LL = Bottom Mount Left Hand	Width: 3" 6" 9" 12" 18" 24"	Depth: 3" 4" 6"



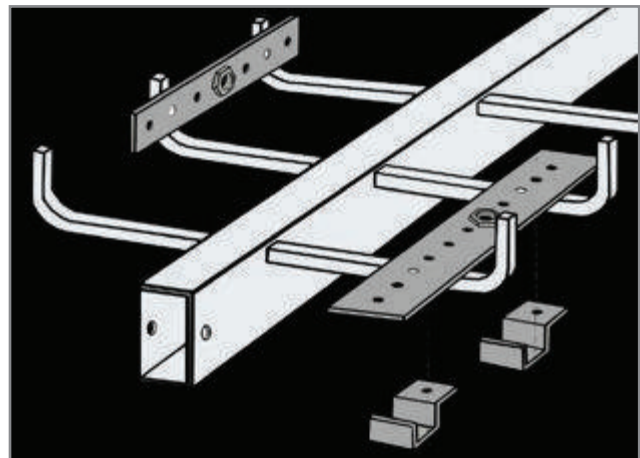
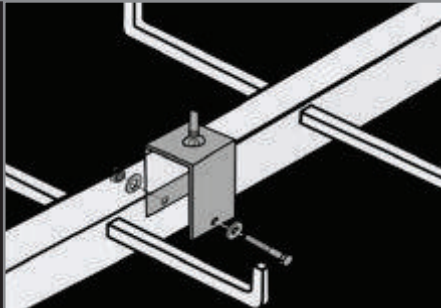
Blind End

See product number ordering system to the left. Simple one nut and bolt installation. Hardware is included.

Intermediate Support Hanger

	Part #
Alum	AHC-CR
Steel	SHC-CR

Used to support Husky Centray in between splices.



Conduit Bushing Dropout

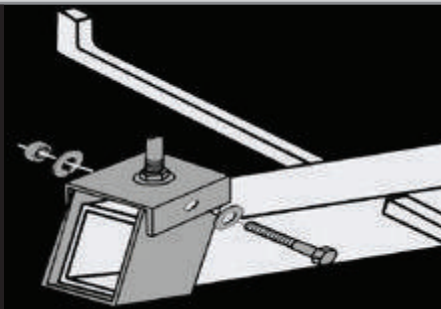
Conduit Size	Part #
1/2"	CBD1/2-(RS)
3/4"	CBD3/4-(RS)
1"	CBD1-(RS)
1-1/4"	CBD1-1/4-(RS)
1-1/2"	CBD1-1/2-(RS)
2"	CBD2-(RS)
(RS = rung spacing)	

Mounting hardware is included.

Example of Part #: CBD-1/2-6=1/2" conduit mounted to Husky Centray with a 6" rung spacing.

Clevis Support Hanger

	Part #
Alum	AHC-SJCR
Steel	SHC-SJCR





Covers

Solid Top Cover

Standard Length is 12ft

Part

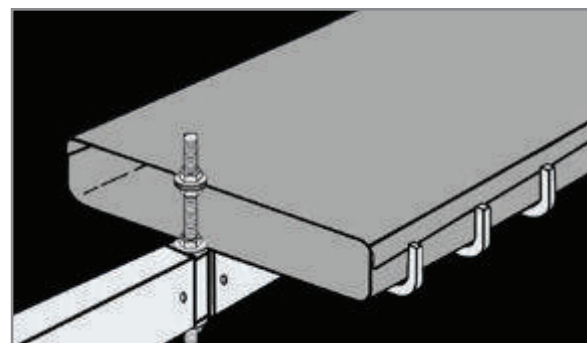
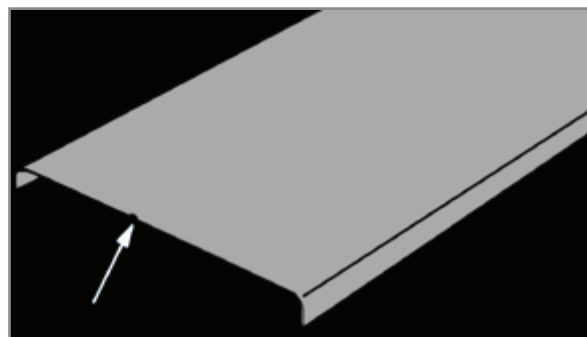
Top Mounted Rung **CACTF-(W)-144 or 120**

Bottom Mounted Rung **CACLF-(W)-144 or 120**
(W = insert tray width)

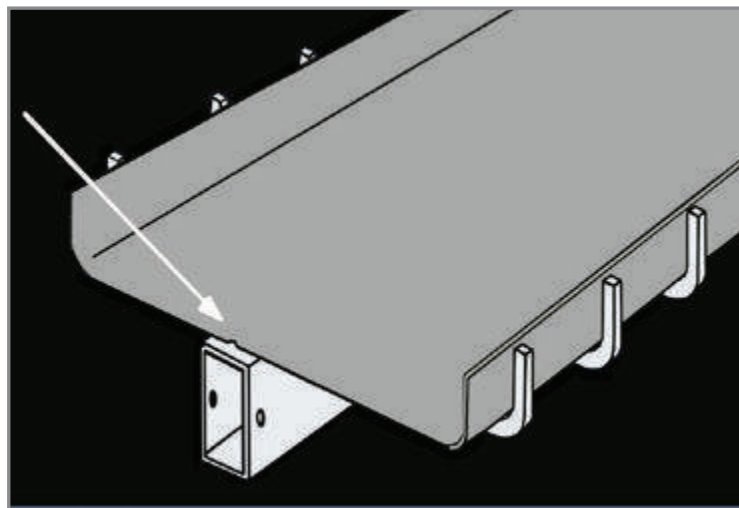
Available Widths

6", 9", 12", 18" and 24"

Note: Notch permits cover to slide between the support nut and washers for secure attachment. One sheet metal connector is supplied with each insert.



Solid Bottom Inserts



15-CENTER RAIL

Full Width Top Rung Inserts

Part #AST(D)-(W)-144(120)

(D) Depth = 3", 4", 6"

(W) Width = 6", 9", 12", 18", 24"

Bottom Rung Inserts (order 2 pcs.)

Part #ASL(D)-(W)-144(120)

(D) Depth = 3", 4", 6"

(W) Width = 3", 4-1/2", 6, 8-1/4", 11-13/16"

-144=12' -120=10'

Tray Width	Insert Width	Part #
24"	11-3/16"	ASL(D)-11-1/4-144
18"	8-1/4"	ASL(D)-8-1/4-144
12"	5-15/16"	ASL(D)-6-144
9"	4-7/16"	ASL(D)-4-1/2-144
6"	2-15/16"	ASL(D)-3-144

Wall Mount Inserts

Part #ASWL(D)-(W)-144(120)

(D) Depth = 3", 4", 6"

-144=12' -120=10'

Tray Width	Insert Width	Part #
12"	11-15/16"	ASWL(D)-12-144
9"	8-15/16"	ASWL(D)-9-144
6"	5-15/16"	ASWL(D)-6-144
3"	2-15/16"	ASWL(D)-3-144

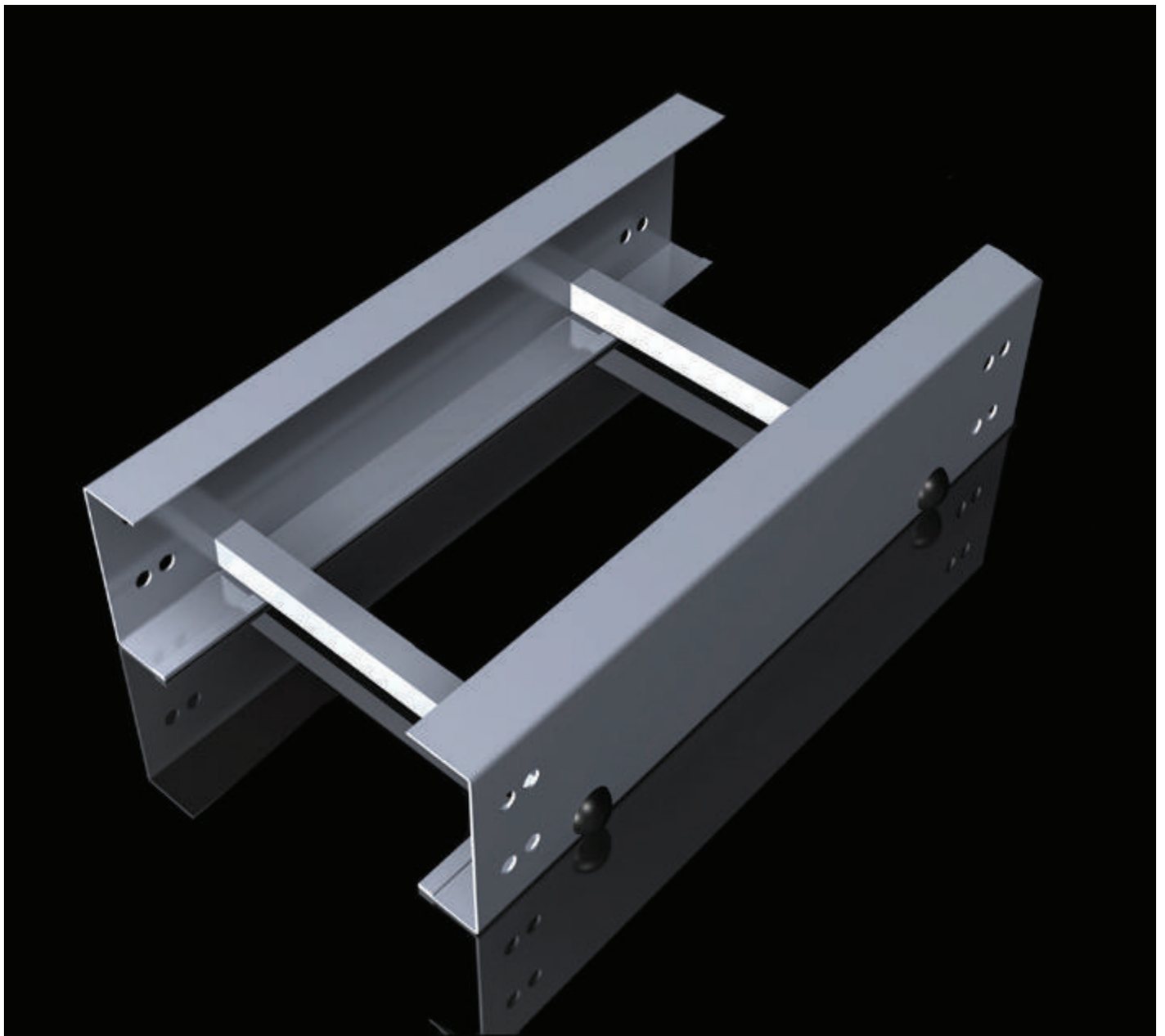


MP HUSKY™
CABLE TRAY & CABLE BUS

Husky Fiberglass

Cable Tray

Technical Information.....	Pgs. 211-213
Installation Guide.....	Pg. 214
Corrosion Guide.....	Pgs. 215-218
6" Husky Fiberglass Tray	Pgs. 219-228
4" Husky Fiberglass Tray	Pgs. 229-237
3" Husky Fiberglass Tray	Pgs. 238-243
Channel Husky Fiberglass Tray	Pgs. 244-247
Specifications.....	Pg. 248
Fittings & Accessories	Pgs. 249-252
Strut Section.....	Pgs. 253-261





For more than 30 years, MP Husky's Fiberglass Cable Tray systems have been tested and proven in the harsh environment of the offshore oil and gas industry. Our tray has stood up to the test of being exposed to the corrosive conditions inherent in petroleum products, plus the daily punishment of exposure to wind, weather and salt water. MP Husky Fiberglass Cable Tray gives you the load capacity of steel, plus the inherent characteristics afforded by our Pultrusion Technology: non-conductive, non-magnetic and corrosion-resistant. Although light in weight, the strength to weight ratio surpasses that of equivalent steel products. Husky Fiberglass Cable Tray will not rust, nor does it ever require painting. It is available in both polyester and vinylester resin systems, manufactured to meet ASTM E-84, Class 1 Flame Rating and self-extinguishing requirements of ASTM D-635. Husky's Fiberglass Cable Tray comes in gray or blue (polyester resin) and beige (vinylester resin) but is available in custom colors upon request.



Load Data

Effect of Temperature

Strength properties of reinforced plastics are reduced when continuously exposed to elevated temperatures. Working loads shall be reduced based on the following:

Temperature in Degrees F	Approximate Percent of Strength
75	100
100	90
125	78
150	68
175	60
200	52

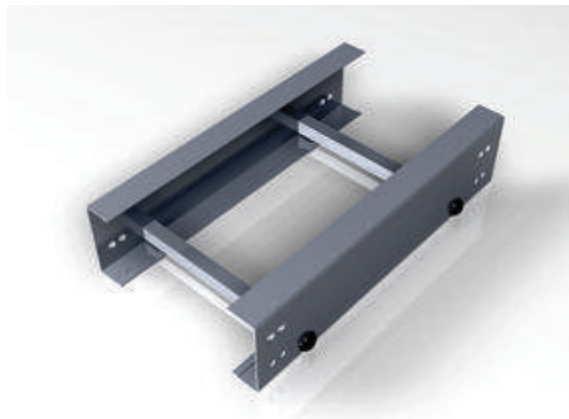
NEMA FG-1 Latest Edition. If unusual temperature conditions exist, please consult the manufacturer.



Typical Properties of Pultruded Components

MP Husky's Fiberglass Cable Tray systems are manufactured from glass fiber-reinforced plastic shapes that meet ASTM E-84, Class 1 Flame Rating and self-extinguishing requirements of ASTM D-635. A surface veil is applied during pultrusion to insure a resin-rich surface and ultraviolet resistance.

Properties	Test Method	Unit / Value	3" & 4" Cable Tray, Cable Channel		6" Cable Tray	
			Longitudinal	Transverse	Longitudinal	Transverse
Tensile Strength	ASTM D638	Psi	30,000	7,000	40,000	4,500
Tensile Modulus	ASTM D638	Psi x 10 ⁶	2.5	.8	3.2	.6
Flexural Strength	ASTM D790	psi	30,000	10,000	40,000	10,000
Flexural Modulus	ASTM D790	Psi x 10 ⁶	1.6	.8	2.1	.8
Izod Impact	ASTM D256	ft-lbs/in	28	4	28	4
Compressive Strength	ASTM D695	Psi	30,000	15,000	40,000	10,000
Compressive Modulus	ASTM D695	Psi x 10 ⁶	2.5	1.0	3.2	.7
Barcol Hardness	ASTM D2583	---	45	45	45	45
Shear Strength	ASTM D732	Psi	5,500	5,500	5,500	5,500
Density	ASTM D1505	Lbs/in ³	.058-.062	---	.072-.076	---
Coefficient of Thermal Expansion	ASTM D696	In/in/°F	5.0x10 ⁻⁶	---	5.0x10 ⁻⁶	---
Water Absorption	ASTM D570	Max %	0.5	---	0.5	---
Dielectric Strength	ASTM D149	v/mil	200	---	200	---
Flammability Classification	UL94	(vpm)	---	---	---	---
Flame Spread	ASTM E-84	VO 20 Max	---	---	---	---
Flame Resistance (FTMS 406-2023) ignition / burn, seconds					75 / 75	
Intermittent Flame Test rating (HLT-15)					100	
Flammability Test (ASTM D635) Ignition Burning Time					None 0 sec.	





Cable Tray Thermal Contraction and Expansion

It is important that thermal contraction and expansion be considered when installing cable tray systems. The length of the straight cable tray runs and the temperature differential govern the number of expansion splice plates required (see Table 1). The cable tray should be anchored at the support nearest to its midpoint between the expansion splice plates and secured by expansion guides at all other support locations (See Figure 1). The cable tray should be permitted longitudinal movement in both directions from that fixed point.

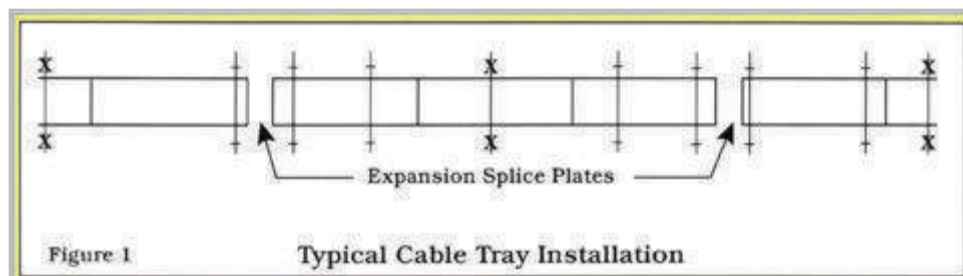
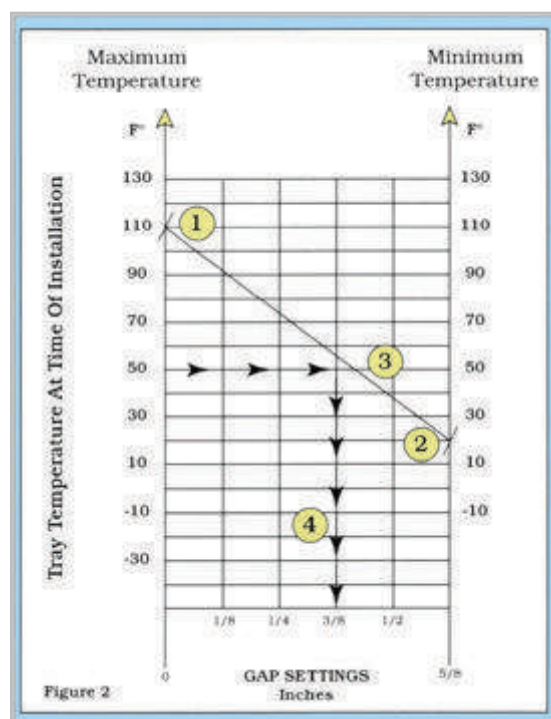


Table 1 Expansion or Contraction for Various Temperature Differences		
Temperature Differential °F	Cable Tray Length for 1" Expansion	Each Tray Length for Expansion Connector*
25	667 Feet	417 Feet
50	333 Feet	208 Feet
75	222 Feet	139 Feet
100	167 Feet	104 Feet
125	133 Feet	83 Feet
150	111 Feet	69 Feet
175	95 Feet	59 Feet

Note for gap set and hold down/guide location, see installation instruction above.
*1" slotted holes in each expansion connector allow 5/8" total expansion or contraction.

Accurate gap setting at the time of installation is necessary for the proper operation of the expansion splice plates. The following procedure should assist the installer in determining the correct gap (see Figure 2):

1. Plot the highest expected tray temperature on the maximum temperature line
2. Plot the lowest expected tray temperature on the minimum temperature line
3. Draw a line between the maximum and minimum points
4. Plot the tray temperature at the time of installation to determine the gap setting



Cable Tray Installation Guide

Installation of MP Husky Fiberglass Cable Tray should be made in accordance with the standards set by NEMA Publication VE-2 latest edition and National Electrical Code, Article 392.

- ◆ Always observe common safety practices when assembling tray and fittings. Installations generally require some field cutting. Dust created during fabrication presents no serious health hazard, but skin irritation may be experienced by some workers.
- ◆ Operators of saws and drills should wear masks, long sleeve shirts, or coveralls.
- ◆ Fabrication with Husky Fiberglass is relatively easy and comparable to working with wood. Ordinary hand tools may be used in most cases.
- ◆ Avoid excessive pressure when sawing or drilling. Too much force can rapidly dull tools and also produce excessive heat which softens the bonding resin in the Husky Fiberglass, resulting in a ragged edge rather than a clean-cut edge.
- ◆ Field cutting is simple and can be accomplished with a circular power saw with an abrasive cut-off wheel (masonry type) or hack saw (24 to 32 teeth per inch).
- ◆ Drill Husky Fiberglass as you would drill hard wood. Standard twist drills are more than adequate.
- ◆ Any surface that has been drilled, cut, sanded or otherwise broken, **must be sealed** with a compatible resin.
- ◆ Carbide tipped saw blades and drill bits are recommended when cutting large quantities.
- ◆ Support the Husky Fiberglass material firmly during cutting operations to keep material from shifting, which may cause chipping at the cut edge.
- ◆ Each tray section length should be equal to or greater than the support span.
- ◆ When possible, the splice should be located within the quarter span.
- ◆ Fittings should be supported as per NEMA VE-2.





CHEMICAL ENVIROMENT	POLYESTER		VINYLESTER	
	Max Wt. %	Max Oper. Temp *F	Max Wt. %	Max Temp. *F
Acetic Acid	10	190	10	210
Acetic Acid	50	125	50	180
Acetone	N/R	N/R	100	75
Aluminum Chloride	SAT	170	SAT	200
Aluminum Hydroxide	SAT	160	SAT	170
Aluminum Nitrate	SAT	150	SAT	170
Aluminum Sulfate	SAT	180	SAT	200
Ammonium Chloride	SAT	170	SAT	190
Ammonium Hydroxide	1	100	10	150
Ammonium Hydroxide	28	N/R	28	100
Ammonium Carbonate	N/R	N/R	SAT	150
Ammonium Bicarbonate	15	125	SAT	130
Ammonium Nitrate	SAT	160	SAT	190
Ammonium Per sulfate	SAT	N/R	SAT	150
Ammonium Sulfate	SAT	170	SAT	200
Amyl Alcohol	ALL	N/R	ALL	90
Amyl Alcohol Vapor	—	140	—	120
Benzene	N/R	N/R	100	140
Benzene Sulfonic Acid	25	110	SAT	200
Benzoic Acid	SAT	150	SAT	200
Benzoyl Alcohol	100	N/R	100	N/R
Borax	SAT	170	SAT	200
Calcium Carbonate	SAT	170	SAT	200
Calcium Chloride	SAT	170	SAT	200
Calcium Hydroxide	25	70	25	165
Calcium Nitrate	SAT	180	SAT	200
Calcium Sulfate	SAT	180	SAT	200
Carbon Disulfide	N/R	N/R	N/R	N/R
Carbonic Acid	SAT	130	SAT	180
Carbon Dioxide Gas	—	200	—	200
Carbon Monoxide Gas	—	200	—	200
Carbon Tetrachloride	N/R	N/R	100	75
Chloride, Dry Gas	—	140	—	170
Chloride, Wet Gas	—	N/R	—	180
Chlorine Water	SAT	80	SAT	180

CHEMICAL ENVIROMENT	POLYESTER		VINYLESTER	
	Max Wt. %	Max Oper. Temp *F	Max Wt. %	Max Temp. *F
Chromic Acid	5	70	10	120
Citric Acid	SAT	170	SAT	200
Copper Chloride	SAT	170	SAT	200
Copper Cyanide	SAT	170	SAT	200
Copper Nitrate	SAT	170	SAT	200
Crude Oil, Sour	100	170	100	200
Cyclohexane	N/R	N/R	N/R	N/R
Cyclohexane, Vapor	ALL	100	ALL	130
Diesel Fuel	100	160	100	180
Diethyl Ether	N/R	N/R	N/R	N/R
Dimethly Phthalate	N/R	N/R	N/R	N/R
Ethanol	50	75	50	90
Ethyl Acetate	N/R	N/R	N/R	N/R
Ethylene Chloride	N/R	N/R	N/R	N/R
Ethylene Glycol	100	90	100	200
Fatty Acids	SAT	180	SAT	200
Ferric Chloride	SAT	170	SAT	200
Ferric nitrate	SAT	170	SAT	200
Ferric Sulfate	SAT	170	SAT	200
Ferrous Chloride	SAT	170	SAT	200
Fluoboric Acid	N/R	N/R	SAT	165
Fluosilicic Acid	N/R	N/R	SAT	70
Formaldehyde	50	75	50	100
Formic Acid	N/R	N/R	50	100
Gasoline	100	80	100	150
Glucose	100	170	100	200
Glycerin	100	150	100	200
Heptanes	100	110	100	200
Hexane	100	90	100	130
Hydrotropic Acid	50	120	50	120
Hydrochloric Acid	10	150	10	200
Hydrochloric Acid	20	140	20	190
Hydrochloric Acid	37	75	37	95
Hydrochloric Acid	N/R	N/R	15	80
Hydrogen Bromide, Dry	100	190	100	200



CHEMICAL ENVIROMENT	POLYESTER		VINYLESTER	
	Max Wt. %	Max Oper. Temp *F	Max Wt. %	Max Temp. *F
Hydrogen Bromide, Wet	100	75	100	130
Hydrogen Chloride	—	120	—	200
Hydrogen Peroxide	5	100	30	100
Hydrogen Sulfide, Dry	100	170	100	210
Hydrogen Sulfide, Wet	100	170	100	210
Hypochlorus Acid	20	80	20	150
Isopropyl Alcohol	N/R	N/R	15	80
Kerosene	100	140	100	180
Lactic Acid	SAT	170	SAT	200
Lead Acetate	SAT	170	SAT	200
Lead Chloride	SAT	140	SAT	200
Lead Nitrate	SAT	—	SAT	200
Linseed Oil	100	150	100	190
Lithium Chloride	SAT	150	SAT	190
Magnesium Carbonate	SAT	140	SAT	170
Magnesium Chloride	SAT	170	SAT	200
Magnesium Hydroxide	SAT	150	SAT	190
Magnesium Nitrate	SAT	140	SAT	180
Magnesium Sulfate	SAT	170	SAT	190
Mercuric Chloride	SAT	150	SAT	190
Mercurous Chloride	SAT	140	SAT	180
Methyl Ethyl Ketene	N/R	N/R	N/R	N/R
Mineral Oils	100	170	100	200
Monochlorobenze	N/R	N/R	N/R	N/R
Naphtha	100	140	100	170
Nickel Chloride	SAT	170	SAT	200
Nickel Nitrate	SAT	170	SAT	200
Nickel Sulfate	SAT	170	SAT	200
Nitric Acid	5	140	5	150
Nitric Acid	20	70	20	100
Oleic Acid	100	170	100	190
Oxalic Acid	ALL	75	ALL	120
Paper Mill Liquors	—	100	—	120
Perchlorethylene	100	N/R	100	N/R
Perchloric Acid	N/R	N/R	10	150
Perchloric Acid	N/R	N/R	30	80
Phosporic Acid	10	160	10	200
Phosporic Acid	100	120	100	200
Potassium Aluminum Sulfate	SAT	170	SAT	200
Potassium Bicarbonate	50	80	50	140
Potassium Carbonate	10	N/R	10	120
Potassium Chloride	SAT	170	SAT	200
Potassium Dichromate	SAT	170	SAT	200

	POLYESTER		VINYLESTER	
CHEMICAL ENVIROMENT	Max Wt. %	Max Oper. Temp *F	Max Wt. %	Max Temp. *F
Potassium Hydroxide	N/R	N/R	25	150
Potassium Nitrate	SAT	170	SAT	200
Potassium Permanganate	100	80	100	210
Potassium Sulfate	SAT	170	SAT	200
Propylene Glycol	ALL	170	ALL	200
Phthalic Acid	—	—	SAT	200
Sodium Acetate	SAT	160	SAT	200
Sodium Bicarbonate	SAT	160	SAT	175
Sodium Bisulfate	ALL	170	ALL	200
Sodium Bromide	ALL	170	ALL	200
Sodium Carbonate	10	80	35	160
Sodium Chloride	SAT	170	SAT	200
Sodium Cyanide	SAT	170	SAT	200
Sodium Hydroxide	N/R	N/R	50	150
Sodium Hydroxide	N/R	N/R	25	80
Sodium Hypochloride	N/R	N/R	10	150
Sodium Monophosphate	SAT	170	SAT	200
Sodium Nitrate	SAT	170	SAT	200
Sodium Sulfate	SAT	170	SAT	200
Sodium Thiosulfate	ALL	100	ALL	120
Stannic Chloride	SAT	160	SAT	190
Styrene	N/R	N/R	N/R	N/R
Sulfated Detergent	0/50	170	0/50	200
Sulfur Dioxide	100	80	100	200
Sulfur Trioxide	100	80	100	200
Sulfuric Acid	93	N/R	93	N/R
Sulfuric Acid	50	N/R	50	180
Sulfuric Acid	25	75	25	190
Sulfurous Acid	SAT	80	N/R	N/R
Tartaric Acid	SAT	170	SAT	200
Tetrachloroethylene	N/R	N/R	FUM	75
Toluene	N/R	N/R	N/R	N/R
Trisodium Phosphate	N/R	N/R	SAT	175
Urea	SAT	130	SAT	140
Vinegar	100	170	100	200
Water, Distilled	100	170	100	190
Water, Tap	100	170	100	190
Water, Sea	SAT	170	SAT	190
Xylene	N/R	N/R	N/R	N/R
Zinc Chloride	SAT	170	SAT	200
Zinc Nitrate	SAT	170	SAT	200
Zinc Sulfate	SAT	170	SAT	200



Numbering System

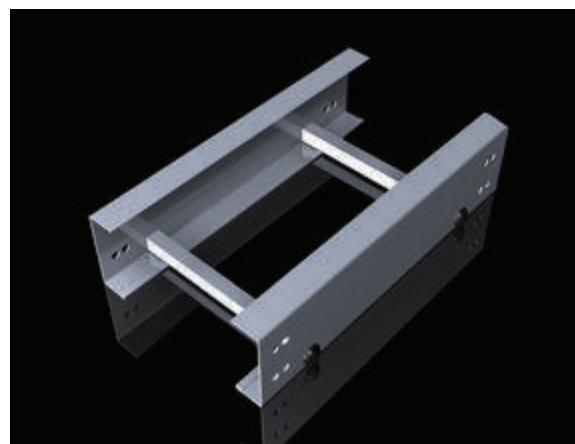
6BP-09-24-120				
6B	P-	09-	24-	240
Series	Material	Rung Spacing	Width	Length
6" (6B, 6C, H6C) Based on NEMA classification—see next page for details	P=Polyester Resin V=Vinylester Resin	06" 09" 12" 18"	06" 09" 12" 18" 24" 30" 36"	120 (10ft.) 240 (20ft.)

How to Order Husky Fiberglass Cable Tray:

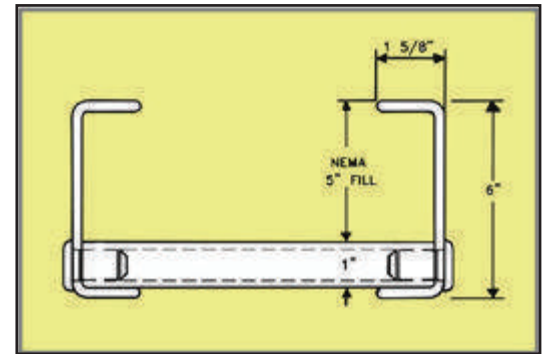
1. Select the correct MP Husky Series Cable Tray using the Load Data for straight sections shown in the appropriate tabbed section for 6", 4" and 3" Cable Tray. **(Example: 6BP-09-24-240 would be for NEMA 20B tray).**
2. Select the resin required. Refer to the Corrosion Guide on pages 215-218 of the Technical Data Section for the effect of environmental conditions on the desired material. This section also contains the temperature range for our tray.
3. The tray prefix is completed by inserting the rung spacing.
4. The fourth box contains the straight section width in inches.
5. The fifth box contains the straight section length in inches.

Please note:

**One pair of splice plates with hardware is included.
Fittings are available in molded or mitered design.**



To obtain deflection at any span length for lighter loads than listed, multiply the load by the K factor. When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%.



Husky Series 6B / NEMA 20B				Safety Factor 1.5	
Span (Ft.)	12	14	16	18	20
Design Load Lbs./Ft.	254	186	143	113	91
Deflection	1.6	2.2	2.8	3.6	4.4
K Factor	0.006	0.012	0.020	0.032	0.048
<i>*Tested per NEMA FG-1, 12" rung spacing</i>					

Husky Series 6C / NEMA 20C				Safety Factor 1.5	
Span (Ft.)	12	14	16	18	20
Design Load Lbs./Ft.	356	262	200	158	128
Deflection	1.6	2.2	2.9	3.7	4.6
K Factor	0.004	0.008	0.015	0.023	0.136
<i>*Tested per NEMA FG-1, 12" rung spacing</i>					

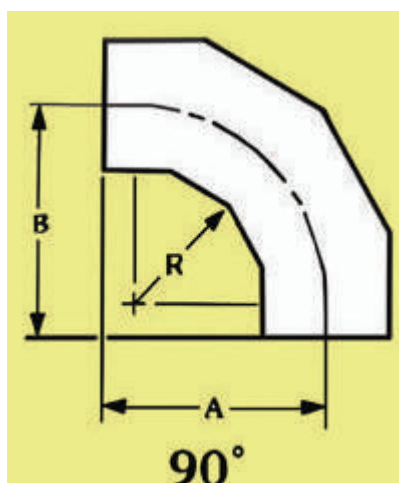
Husky Series H6C / NEMA 20C				Safety Factor 1.5	
Span (Ft.)	12	14	16	18	20
Design Load Lbs./Ft.	386	283	217	171	139
Deflection	1.8	2.4	3.2	4.0	5.0
K Factor	0.005	0.008	0.015	0.023	0.036

Husky Series H6C/ NEMA 20C				Safety Factor 2.0	
Span (Ft.)	12	14	16	18	20
Design Load Lbs./Ft.	289	212	163	129	104
Deflection	1.3	1.8	2.4	3.0	3.7
K Factor	0.004	0.008	0.015	0.023	0.036

*Loading—NEMA 20C *tested per NEMA FG-1, 12" rung spacing*

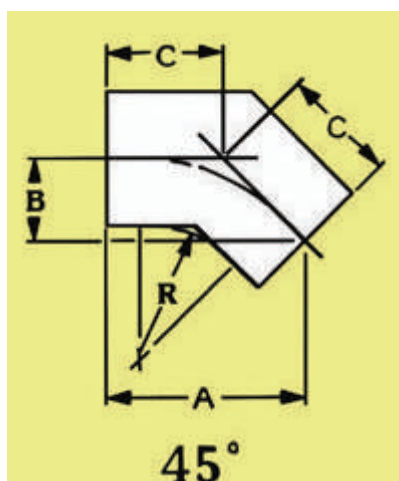


90° Horizontal Bend Dimensions



-R- Bend Radius (in.)	Tray Width (in.)	Catalog Number	A Inches	B Inches
12	6	(Prefix)-06-90HB-12	20-3/8	20-3/8
	9	(Prefix)-09-90HB-12	21-7/8	21-7/8
	12	(Prefix)-12-90HB-12	22-3/8	22-3/8
	18	(Prefix)-18-90HB-12	26-3/8	26-3/8
	24	(Prefix)-24-90HB-12	29-3/8	29-3/8
	30	(Prefix)-30-90HB-12	32-3/8	32-3/8
	36	(Prefix)-36-90HB-12	35-3/8	35-3/8
24	6	(Prefix)-06-90HB-24	34-1/4	34-1/4
	9	(Prefix)-09-90HB-24	35-3/4	35-3/4
	12	(Prefix)-12-90HB-24	37-1/4	37-1/4
	18	(Prefix)-18-90HB-24	40-1/4	40-1/4
	24	(Prefix)-24-90HB-24	43-1/4	43-1/4
	30	(Prefix)-30-90HB-24	46-1/4	46-1/4
	36	(Prefix)-36-90HB-24	49-1/4	49-1/4
36	6	(Prefix)-06-90HB-36	46-1/4	46-1/4
	9	(Prefix)-09-90HB-36	47-3/4	47-3/4
	12	(Prefix)-12-90HB-36	49-1/4	49-1/4
	18	(Prefix)-18-90HB-36	52-1/4	52-1/4
	24	(Prefix)-24-90HB-36	55-1/4	55-1/4
	30	(Prefix)-30-90HB-36	58-1/4	58-1/4
	36	(Prefix)-36-90HB-36	61-1/4	61-1/4

45° Horizontal Bend Dimensions

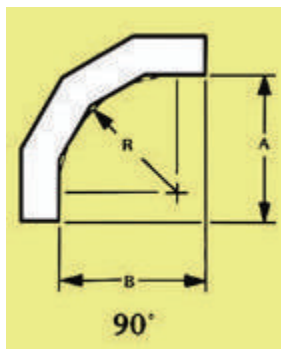


-R- Bend Radius (in.)	Tray Width (in.)	Catalog Number	A Inches	B Inches	C Inches
12	6	(Prefix)-06-45HB-12	22-13/16	9-7/16	13-3/8
	9	(Prefix)-09-45HB-12	23-7/8	9-7/8	14
	12	(Prefix)-12-45HB-12	24-7/8	10-5/16	14-5/8
	18	(Prefix)-18-45HB-12	27-1/16	11-3/16	15-7/8
	24	(Prefix)-24-45HB-12	29-3/16	12-1/16	17-1/8
	30	(Prefix)-30-45HB-12	31-5/16	13	18-3/8
	36	(Prefix)-36-45HB-12	33-7/16	13-7/8	19-9/16
24	6	(Prefix)-06-45HB-24	24-3/16	10-1/16	14-3/16
	9	(Prefix)-09-45HB-24	25-1/4	10-1/2	14-13/16
	12	(Prefix)-12-45HB-24	26-5/16	10-15/16	15-7/16
	18	(Prefix)-18-45HB-24	28-7/16	11-13/16	16-11/16
	24	(Prefix)-24-45HB-24	30-9/16	12-11/16	17-15/16
	30	(Prefix)-30-45HB-24	32-11/16	13-9/16	19-3/16
	36	(Prefix)-36-45HB-24	34-13/16	14-7/16	20-3/8
36	6	(Prefix)-06-45HB-36	32-5/8	13-1/2	19-1/8
	9	(Prefix)-09-45HB-36	33-11/16	13-15/16	19-3/4
	12	(Prefix)-12-45HB-36	34-3/4	14-3/8	20-3/8
	18	(Prefix)-18-45HB-36	36-7/8	15-1/4	21-5/8
	24	(Prefix)-24-45HB-36	39	16-3/16	22-7/8
	30	(Prefix)-30-45HB-36	41-1/8	17-1/16	24-1/8
	36	(Prefix)-36-45HB-36	43-1/4	17-15/16	25-5/16

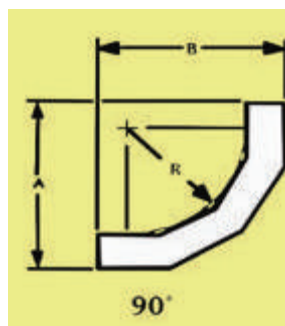
Available in molded or mitered

16-FIBERGLASS

90° Vertical Bend



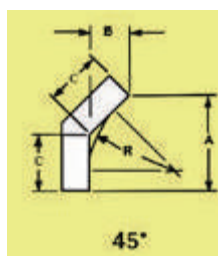
Vertical Outside Bend (*Insert VO)



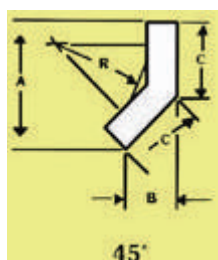
Vertical Inside Bend (*Insert VI)

			Vertical Outside Bend		Vertical Inside Bend	
-R-Bend Radius (in.)	Tray Width (in.)	Catalog Number	A In.	B In.	A In.	B In.
12	6	(Prefix)-06-90(*)-12	20-5/8	20-5/8	27-1/16	27-1/16
	9	(Prefix)-09-90(*)-12				
	12	(Prefix)-12-90(*)-12				
	18	(Prefix)-18-90(*)-12				
	24	(Prefix)-24-90(*)-12				
	30	(Prefix)-30-90(*)-12				
	36	(Prefix)-36-90(*)-12				
24	6	(Prefix)-06-90(*)-24	31-1/4	31-1/4	37-1/4	37-1/4
	9	(Prefix)-09-90(*)-24				
	12	(Prefix)-12-90(*)-24				
	18	(Prefix)-18-90(*)-24				
	24	(Prefix)-24-90(*)-24				
	30	(Prefix)-30-90(*)-24				
	36	(Prefix)-36-90(*)-24				
36	6	(Prefix)-06-90(*)-36	43	43	49-1/2	49-1/2
	9	(Prefix)-09-90(*)-36				
	12	(Prefix)-12-90(*)-36				
	18	(Prefix)-18-90(*)-36				
	24	(Prefix)-24-90(*)-36				
	30	(Prefix)-30-90(*)-36				
	36	(Prefix)-36-90(*)-36				

45° Vertical Bend



Vertical Outside Bend
(*Insert VO)



**Vertical Inside
Bend
(*Insert VI)**

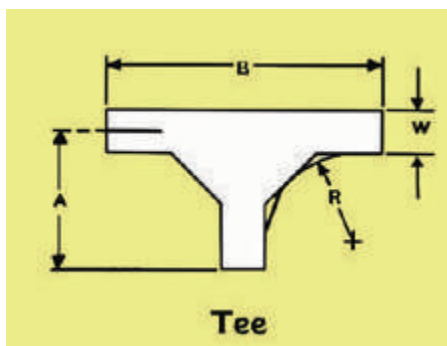
al Bend			Vertical Outside Bend			Vertical Inside Bend		
-R- Bend Radius (in.)	Tray Width (in.)	Catalog Number	A In.	B In.	C In.	A In.	B In.	C In.
12	6	(Prefix)-06-45(*)-12	20-1/2	8-1/2	12	24-3/4	10-1/4	14-1/2
	9	(Prefix)-09-45(*)-12						
	12	(Prefix)-12-45(*)-12						
	18	(Prefix)-18-45(*)-12						
	24	(Prefix)-24-45(*)-12						
	30	(Prefix)-30-45(*)-12						
	36	(Prefix)-36-45(*)-12						
24	6	(Prefix)-06-45(*)-24	22-1/4	9-1/8	12-15/16	26-5/16	10-15/16	15-7/16
	9	(Prefix)-09-45(*)-24						
	12	(Prefix)-12-45(*)-24						
	18	(Prefix)-18-45(*)-24						
	24	(Prefix)-24-45(*)-24						
	30	(Prefix)-30-45(*)-24						
	36	(Prefix)-36-45(*)-24						
36	6	(Prefix)-06-45(*)-36	30-9/16	12-11/16	17-15/16	34-13/16	14-7/16	20-3/8
	9	(Prefix)-09-45(*)-36						
	12	(Prefix)-12-45(*)-36						
	18	(Prefix)-18-45(*)-36						
	24	(Prefix)-24-45(*)-36						
	30	(Prefix)-30-45(*)-36						
	36	(Prefix)-36-45(*)-36						

Note: Dimensions are for reference only, when critical, contact factory. Available in molded or mitered. * Insert VO for vertical outside bend or VI for vertical inside bend.



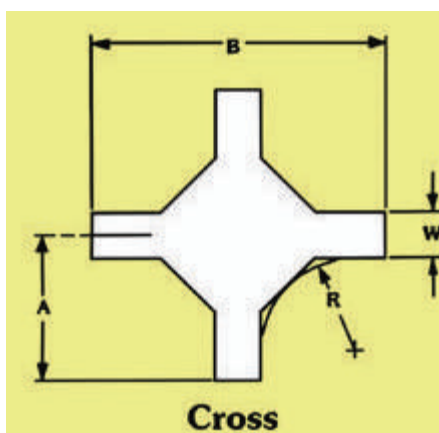
6" Horizontal Tee & Cross

Horizontal Tee



-R- Bend Radius (in.)	Tray Width (in.)	Catalog Number	A Inches	B Inches
12	6	(Prefix)-06-HT-12	19-1/4	38
	9	(Prefix)-09-HT-12	20-3/4	41
	12	(Prefix)-12-HT-12	22-1/4	44
	18	(Prefix)-18-HT-12	25-1/4	50
	24	(Prefix)-24-HT-12	28-1/4	56
	30	(Prefix)-30-HT-12	31-1/4	62
	36	(Prefix)-36-HT-12	34-1/4	68
24	6	(Prefix)-06-HT-24	34-1/4	68-1/2
	9	(Prefix)-09-HT-24	35-3/4	71-1/2
	12	(Prefix)-12-HT-24	37-1/4	74-1/2
	18	(Prefix)-18-HT-24	40-1/4	80-1/2
	24	(Prefix)-24-HT-24	43-1/4	86-1/2
	30	(Prefix)-30-HT-24	46-1/4	92-1/2
	36	(Prefix)-36-HT-24	49-1/4	98-1/2
36	6	(Prefix)-06-HT-36	46-1/4	92-1/2
	9	(Prefix)-09-HT-36	47-3/4	95-1/2
	12	(Prefix)-12-HT-36	49-1/4	98-1/2
	18	(Prefix)-18-HT-36	52-1/4	104-1/2
	24	(Prefix)-24-HT-36	55-1/4	110-1/2
	30	(Prefix)-30-HT-36	58-1/4	116-1/2
	36	(Prefix)-36-HT-36	61-1/4	122-1/2

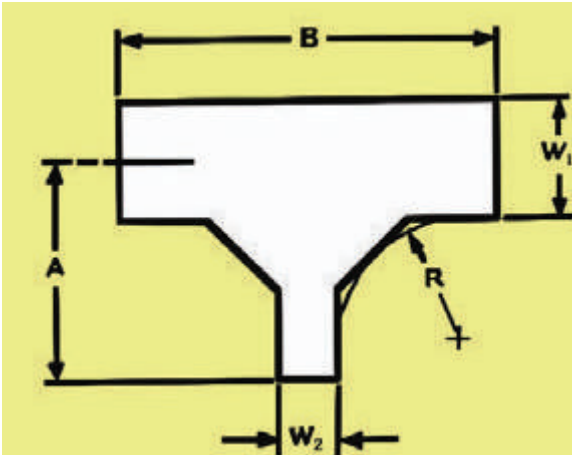
Cross



-R- Bend Radius (in.)	Tray Width (in.)	Catalog Number	A Inches	B Inches
12	6	(Prefix)-06-HX-12	19-1/4	38
	9	(Prefix)-09-HX-12	20-3/4	41
	12	(Prefix)-12-HX-12	22-1/4	44
	18	(Prefix)-18-HX-12	25-1/4	50
	24	(Prefix)-24-HX-12	28-1/4	56
	30	(Prefix)-30-HX-12	31-1/4	62
	36	(Prefix)-36-HX-12	34-1/4	68
24	6	(Prefix)-06-HX-24	34-1/4	68-1/2
	9	(Prefix)-09-HX-24	35-3/4	71-1/2
	12	(Prefix)-12-HX-24	37-1/4	74-1/2
	18	(Prefix)-18-HX-24	40-1/4	80-1/2
	24	(Prefix)-24-HX-24	43-1/4	86-1/2
	30	(Prefix)-30-HX-24	46-1/4	92-1/2
	36	(Prefix)-36-HX-24	49-1/4	98-1/2
36	6	(Prefix)-06-HX-36	46-1/4	92-1/2
	9	(Prefix)-09-HX-36	47-3/4	95-1/2
	12	(Prefix)-12-HX-36	49-1/4	98-1/2
	18	(Prefix)-18-HX-36	52-1/4	104-1/2
	24	(Prefix)-24-HX-36	55-1/4	110-1/2
	30	(Prefix)-30-HX-36	58-1/4	116-1/2
	36	(Prefix)-36-HX-36	61-1/4	122-1/2

Available in molded or mitered

6" Horizontal Reducing Tee



Tray Width		12" Radius		
W1 (in.)	W2 (in.)	Catalog Number	A (in.)	B (in.)
9	6	(Prefix)-09-06-HT-12	20-3/4	38
12	6	(Prefix)-12-06-HT-12	22-1/4	38
	9	(Prefix)-12-09-HT-12	22-1/4	41
18	6	(Prefix)-18-06-HT-12	25-1/4	38
	9	(Prefix)-18-09-HT-12	25-1/4	41
	12	(Prefix)-18-12-HT-12	25-1/4	44
24	6	(Prefix)-24-06-HT-12	28-1/4	38
	9	(Prefix)-24-09-HT-12	28-1/4	41
	12	(Prefix)-24-12-HT-12	28-1/4	44
	18	(Prefix)-24-18-HT-12	28-1/4	50
30	6	(Prefix)-30-06-HT-12	31-1/4	38
	9	(Prefix)-30-09-HT-12	31-1/4	41
	12	(Prefix)-30-12-HT-12	31-1/4	44
	18	(Prefix)-30-18-HT-12	31-1/4	50
	24	(Prefix)-30-24-HT-12	31-1/4	56
36	6	(Prefix)-36-06-HT-12	34-1/4	38
	9	(Prefix)-36-09-HT-12	34-1/4	41
	12	(Prefix)-36-12-HT-12	34-1/4	44
	18	(Prefix)-36-18-HT-12	34-1/4	50
	24	(Prefix)-36-24-HT-12	34-1/4	56
	30	(Prefix)-36-30-HT-12	34-1/4	62

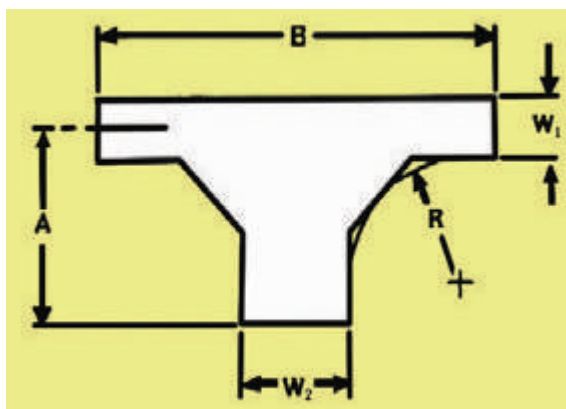
* = 24 or 36 depending on radius

Tray Width			24" Radius		36" Radius	
W1 (in.)	W2 (in.)	Catalog Number	A (in.)	B (in.)	A (in.)	B (in.)
9	6	(Prefix)-09-06-HT-*	35-3/4	68-1/2	47-3/4	92-1/2
12	6	(Prefix)-12-06-HT-*	37-1/4	68-1/2	49-1/4	92-1/2
	9	(Prefix)-12-09-HT-*	37-1/4	71-1/2	49-1/4	95-1/2
18	6	(Prefix)-18-06-HT-*	40-1/4	68-1/2	52-1/4	92-1/2
	9	(Prefix)-18-09-HT-*	40-1/4	71-1/1	52-1/4	95-1/2
	12	(Prefix)-18-12-HT-*	40-1/4	74-1/2	52-1/4	98-1/2
24	6	(Prefix)-24-06-HT-*	43-1/4	68-1/2	55-1/4	92-1/2
	9	(Prefix)-24-09-HT-*	43-1/4	71-1/1	55-1/4	95-1/2
	12	(Prefix)-24-12-HT-*	43-1/4	74-1/2	55-1/4	98-1/2
	18	(Prefix)-24-18-HT-*	43-1/4	80-1/2	55-1/4	104-1/2
30	6	(Prefix)-30-06-HT-*	46-1/4	68-1/2	58-1/4	92-1/2
	9	(Prefix)-30-09-HT-*	46-1/4	71-1/1	58-1/4	95-1/2
	12	(Prefix)-30-12-HT-*	46-1/4	74-1/2	58-1/4	98-1/2
	18	(Prefix)-30-18-HT-*	46-1/4	80-1/2	58-1/4	104-1/2
	24	(Prefix)-30-24-HT-*	46-1/4	86-1/2	58-1/4	110-1/2
36	6	(Prefix)-36-06-HT-*	49-1/4	68-1/2	61-1/4	92-1/2
	9	(Prefix)-36-09-HT-*	49-1/4	71-1/1	61-1/4	95-1/2
	12	(Prefix)-36-12-HT-*	49-1/4	74-1/2	61-1/4	98-1/2
	18	(Prefix)-36-18-HT-*	49-1/4	80-1/2	61-1/4	104-1/2
	24	(Prefix)-36-24-HT-*	49-1/4	86-1/2	61-1/4	110-1/2
	30	(Prefix)-36-30-HT-*	49-1/4	92-1/2	61-1/4	116-1/2

Available in molded or mitered



6" Horizontal Expanding Tee



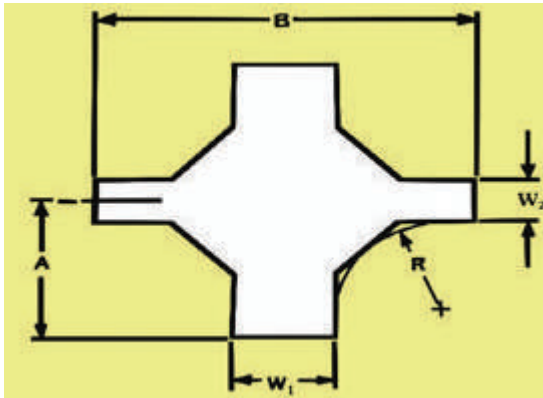
Tray Width		12" Radius		
W1 (in.)	W2 (in.)	Catalog Number	A (in.)	B (in.)
6	9	(Prefix)-06-09-HT-12	19-1/4	41
	12	(Prefix)-06-12-HT-12	19-1/4	44
	18	(Prefix)-06-18-HT-12	19-1/4	50
	24	(Prefix)-06-24-HT-12	19-1/4	56
	30	(Prefix)-06-30-HT-12	19-1/4	62
	36	(Prefix)-06-36-HT-12	19-1/4	68
9	12	(Prefix)-09-12-HT-12	20-3/4	44
	18	(Prefix)-09-18-HT-12	20-3/4	50
	24	(Prefix)-09-24-HT-12	20-3/4	56
	30	(Prefix)-09-30-HT-12	20-3/4	62
	36	(Prefix)-09-36-HT-12	20-3/4	68
12	18	(Prefix)-12-18-HT-12	22-1/4	50
	24	(Prefix)-12-24-HT-12	22-1/4	56
	30	(Prefix)-12-30-HT-12	22-1/4	62
	36	(Prefix)-12-36-HT-12	22-1/4	68
18	24	(Prefix)-18-24-HT-12	25-1/4	56
	30	(Prefix)-18-30-HT-12	25-1/4	62
	36	(Prefix)-18-36-HT-12	25-1/4	68
24	30	(Prefix)-24-30-HT-12	28-1/4	62
	36	(Prefix)-24-36-HT-12	28-1/4	68
30	36	(Prefix)-30-36-HT-12	31-1/4	68

* = 24 or 36 depending on radius

Tray Width			24" Radius		36" Radius	
W1 (in.)	W2 (in.)	Catalog Number	A (in.)	B (in.)	A (in.)	B (in.)
6	9	(Prefix)-06-09-HT-*	34-1/4	71-1/2	46-1/4	95-1/2
	12	(Prefix)-06-12-HT-*	34-1/4	74-1/2	46-1/4	98-1/2
	18	(Prefix)-06-18-HT-*	34-1/4	80-1/2	46-1/4	104-1/2
	24	(Prefix)-06-24-HT-*	34-1/4	86-1/2	46-1/4	110-1/2
	30	(Prefix)-06-30-HT-*	34-1/4	92-1/2	46-1/4	116-1/2
	36	(Prefix)-06-36-HT-*	34-1/4	98-1/2	46-1/4	122-1/2
9	12	(Prefix)-09-12-HT-*	35-3/4	74-1/2	47-3/4	98-1/2
	18	(Prefix)-09-18-HT-*	35-3/4	80-1/2	47-3/4	104-1/2
	24	(Prefix)-09-24-HT-*	35-3/4	86-1/2	47-3/4	110-1/2
	30	(Prefix)-09-30-HT-*	35-3/4	92-1/2	47-3/4	116-1/2
	36	(Prefix)-09-36-HT-*	35-3/4	98-1/2	47-3/4	122-1/2
12	18	(Prefix)-12-18-HT-*	37-1/4	80-1/2	49-1/4	104-1/2
	24	(Prefix)-12-24-HT-*	37-1/4	86-1/2	49-1/4	110-1/2
	30	(Prefix)-12-30-HT-*	37-1/4	92-1/2	49-1/4	116-1/2
	36	(Prefix)-12-36-HT-*	37-1/4	98-1/2	49-1/4	122-1/2
18	24	(Prefix)-18-24-HT-*	40-1/4	86-1/2	52-1/4	110-1/2
	30	(Prefix)-18-30-HT-*	40-1/4	92-1/2	52-1/4	116-1/2
	36	(Prefix)-18-36-HT-*	40-1/4	98-1/2	52-1/4	122-1/2
24	30	(Prefix)-24-30-HT-*	43-1/4	92-1/2	55-1/4	116-1/2
	36	(Prefix)-24-36-HT-*	43-1/4	98-1/2	55-1/4	122-1/2
30	36	(Prefix)-30-36-HT-*	46-1/4	98-1/2	58-1/4	122-1/2

Available in molded or mitered

6" Horizontal Expanding/ Reducing Cross



* = Insert Radius

Tray Width		12" Radius		
W1 (in.)	W2 (in.)	Catalog Number	A (in.)	B (in.)
6	9	(Prefix)-06-09-HX-*	22-1/4	47-1/2
	12	(Prefix)-06-12-HX-*	22-1/4	50-1/2
	18	(Prefix)-06-18-HX-*	22-1/4	56-1/2
	24	(Prefix)-06-24-HX-*	22-1/4	62-1/2
	30	(Prefix)-06-30-HX-*	22-1/4	68-1/2
	36	(Prefix)-06-36-HX-*	22-1/4	74-1/2
9	12	(Prefix)-09-12-HX-*	23-3/4	50-1/2
	18	(Prefix)-09-18-HX-*	23-3/4	56-1/2
	24	(Prefix)-09-24-HX-*	23-3/4	62-1/2
	30	(Prefix)-09-30-HX-*	23-3/4	68-1/2
	36	(Prefix)-09-36-HX-*	23-3/4	74-1/2
12	18	(Prefix)-12-18-HX-*	25-1/4	56-1/2
	24	(Prefix)-12-24-HX-*	25-1/4	62-1/2
	30	(Prefix)-12-30-HX-*	25-1/4	68-1/2
	36	(Prefix)-12-36-HX-*	25-1/4	74-1/2
18	24	(Prefix)-18-24-HX-*	28-1/4	62-1/2
	30	(Prefix)-18-30-HX-*	28-1/4	68-1/2
	36	(Prefix)-18-36-HX-*	28-1/4	74-1/2
24	30	(Prefix)-24-30-HX-*	31-1/4	68-1/2
	36	(Prefix)-24-36-HX-*	31-1/4	74-1/2
30	36	(Prefix)-30-36-HX-*	34-1/4	74-1/2

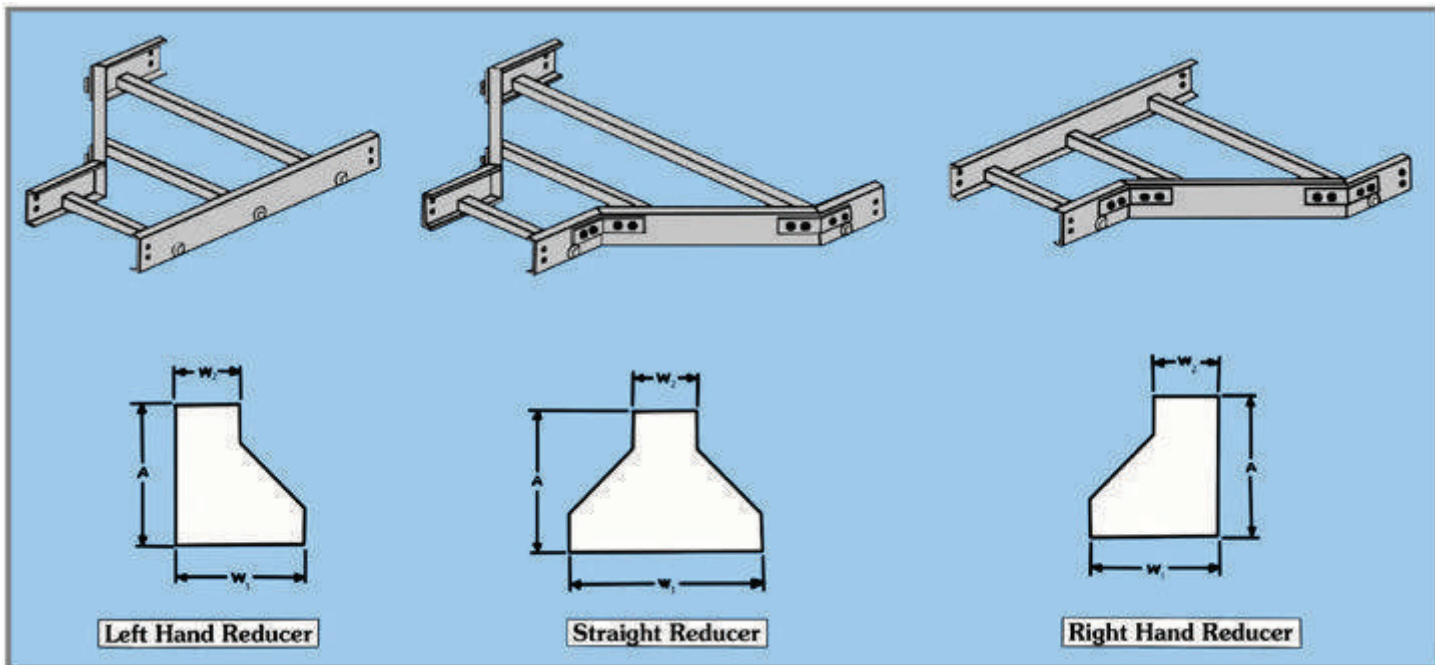
* = 24 or 36 depending on radius

Tray Width			24" Radius		36" Radius	
W1 (in.)	W2 (in.)	Catalog Number	A (in.)	B (in.)	A (in.)	B (in.)
6	9	(Prefix)-06-09-HX-*	34-1/4	71-1/2	46-1/4	95-1/2
	12	(Prefix)-06-12-HX-*	34-1/4	74-1/2	46-1/4	98-1/2
	18	(Prefix)-06-18-HX-*	34-1/4	80-1/2	46-1/4	104-1/2
	24	(Prefix)-06-24-HX-*	34-1/4	86-1/2	46-1/4	110-1/2
	30	(Prefix)-06-30-HX-*	34-1/4	92-1/2	46-1/4	116-1/2
	36	(Prefix)-06-36-HX-*	34-1/4	98-1/2	46-1/4	122-1/2
9	12	(Prefix)-09-12-HX-*	35-3/4	74-1/2	47-3/4	98-1/2
	18	(Prefix)-09-18-HX-*	35-3/4	80-1/2	47-3/4	104-1/2
	24	(Prefix)-09-24-HX-*	35-3/4	86-1/2	47-3/4	110-1/2
	30	(Prefix)-09-30-HX-*	35-3/4	92-1/2	47-3/4	116-1/2
	36	(Prefix)-09-36-HX-*	35-3/4	98-1/2	47-3/4	122-1/2
12	18	(Prefix)-12-18-HX-*	37-1/4	80-1/2	49-1/4	104-1/2
	24	(Prefix)-12-24-HX-*	37-1/4	86-1/2	49-1/4	110-1/2
	30	(Prefix)-12-30-HX-*	37-1/4	92-1/2	49-1/4	116-1/2
	36	(Prefix)-12-36-HX-*	37-1/4	98-1/2	49-1/4	122-1/2
18	24	(Prefix)-18-24-HX-*	40-1/4	86-1/2	52-1/4	110-1/2
	30	(Prefix)-18-30-HX-*	40-1/4	92-1/2	52-1/4	116-1/2
	36	(Prefix)-18-36-HX-*	40-1/4	98-1/2	52-1/4	122-1/2
24	30	(Prefix)-24-30-HX-*	43-1/4	92-1/2	55-1/4	116-1/2
	36	(Prefix)-24-36-HX-*	43-1/4	98-1/2	55-1/4	122-1/2
30	36	(Prefix)-30-36-HX-*	46-1/4	98-1/2	58-1/4	122-1/2

Available in molded or mitered



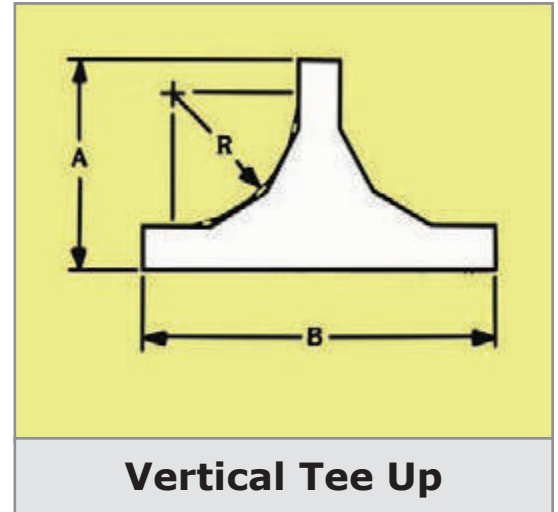
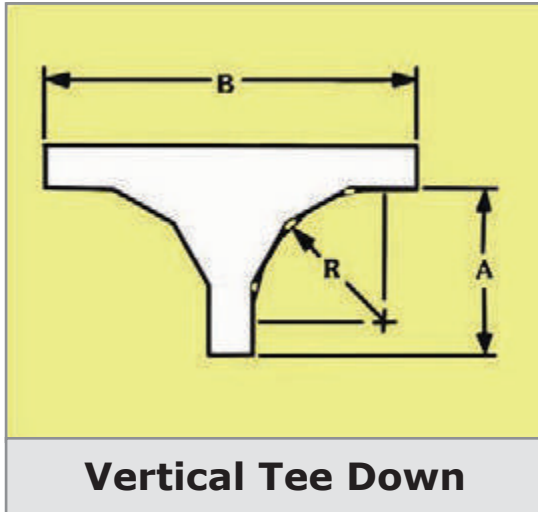
6" Reducers



Tray Width		Left Hand Reducer		Straight Reducer		Right Hand Reducer	
W1 (in.)	W2 (in.)	Catalog Number	A (in.)	Catalog Number	A (in.)	Catalog Number	A (in.)
9	6	(Prefix)-09-LR06	17-1/2	(Prefix)-09-SR06	16	(Prefix)-09-RR06	17-1/2
12	6	(Prefix)-12-LR06	20-1/2	(Prefix)-12-SR06	17-1/2	(Prefix)-12-RR06	20-1/2
	9	(Prefix)-12-LR09	17-1/2	(Prefix)-12-SR09	16	(Prefix)-12-RR09	17-1/2
18	6	(Prefix)-18-LR06	26-1/2	(Prefix)-18-SR06	20-1/2	(Prefix)-18-RR06	26-1/2
	9	(Prefix)-18-LR09	23-1/2	(Prefix)-18-SR09	19	(Prefix)-18-RR09	23-1/2
	12	(Prefix)-18-LR12	20-1/2	(Prefix)-18-SR12	17-1/2	(Prefix)-18-RR12	20-1/2
24	6	(Prefix)-24-LR06	32-1/2	(Prefix)-24-SR06	23-1/2	(Prefix)-24-RR06	32-1/2
	9	(Prefix)-24-LR09	29-1/2	(Prefix)-24-SR09	22	(Prefix)-24-RR09	29-1/2
	12	(Prefix)-24-LR12	26-1/2	(Prefix)-24-SR12	20-1/2	(Prefix)-24-RR12	26-1/2
	18	(Prefix)-24-LR18	20-1/2	(Prefix)-24-SR18	17-1/2	(Prefix)-24-RR18	20-1/2
30	6	(Prefix)-30-LR06	38-1/2	(Prefix)-30-SR06	26-1/2	(Prefix)-30-RR06	38-1/2
	9	(Prefix)-30-LR09	35-1/2	(Prefix)-30-SR09	25	(Prefix)-30-RR09	35-1/2
	12	(Prefix)-30-LR12	32-1/2	(Prefix)-30-SR12	23-1/2	(Prefix)-30-RR12	32-1/2
	18	(Prefix)-30-LR18	26-1/2	(Prefix)-30-SR18	20-1/2	(Prefix)-30-RR18	26-1/2
	24	(Prefix)-30-LR24	20-1/2	(Prefix)-30-SR24	17-1/2	(Prefix)-30-RR24	20-1/2
36	6	(Prefix)-36-LR06	44-1/2	(Prefix)-36-SR06	29-1/2	(Prefix)-36-RR06	44-1/2
	9	(Prefix)-36-LR09	41-1/2	(Prefix)-36-SR09	28-26-	(Prefix)-36-RR09	41-1/2
	12	(Prefix)-36-LR12	38-1/2	(Prefix)-36-SR12	1/2	(Prefix)-36-RR12	38-1/2
	18	(Prefix)-36-LR18	32-1/2	(Prefix)-36-SR18	23-1/2	(Prefix)-36-RR18	32-1/2
	24	(Prefix)-36-LR24	26-1/2	(Prefix)-36-SR24	20-1/2	(Prefix)-36-RR24	26-1/2
	30	(Prefix)-36-LR30	20-1/2	(Prefix)-36-SR30	17-1/2	(Prefix)-36-RR30	20-1/2

Available in molded or mitered

6" Vertical Tees



Two pair of splice plates with SS6 hardware included.

			Vertical Tee Down		Vertical Tee Up	
-R- Bend Radius (in.)	Tray Width (in.)	Catalog Number	A (in.)	B (in.)	A (in.)	B (in.)
12	6	(Prefix)*-06-12	20-5/8	47-3/16	26-5/8	47-3/16
	9	(Prefix)*-09-12				
	12	(Prefix)*-12-12				
	18	(Prefix)*-18-12				
	24	(Prefix)*-24-12				
	30	(Prefix)*-30-12				
24	6	(Prefix)*-06-24	31-1/4	68-1/2	37-1/4	68-1/2
	9	(Prefix)*-09-24				
	12	(Prefix)*-12-24				
	18	(Prefix)*-18-24				
	24	(Prefix)*-24-24				
	30	(Prefix)*-30-24				
36	6	(Prefix)*-06-36	43	92	49	92
	9	(Prefix)*-09-36				
	12	(Prefix)*-12-36				
	18	(Prefix)*-18-36				
	24	(Prefix)*-24-36				
	30	(Prefix)*-30-36				

* = Insert VD (For Vertical Down) or VU (For Vertical Up)

Available in molded or mitered

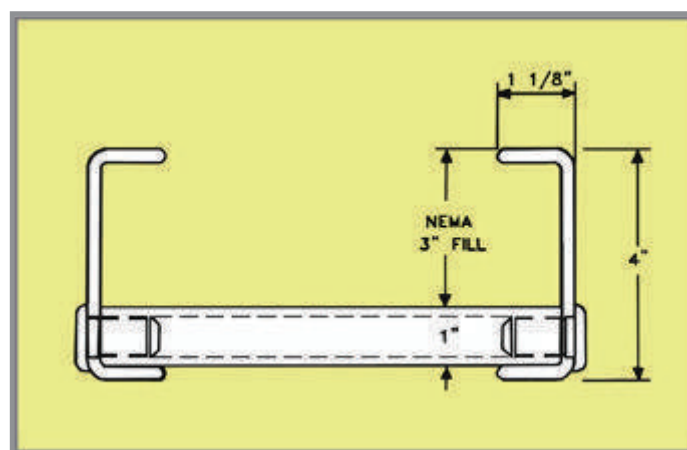


4P-09-24-120				
4	P-	09-	24-	120
Series	Material	Rung Spacing	Width	Length

Series: 4"	P=Polyester Resin V=Vinylester Resin	Rung Spacing: 06" 09" 12" 18"	Width: 06" 09" 12" 18" 24" 30" 36"	Length: 120 (10ft.) 240 (20ft.)
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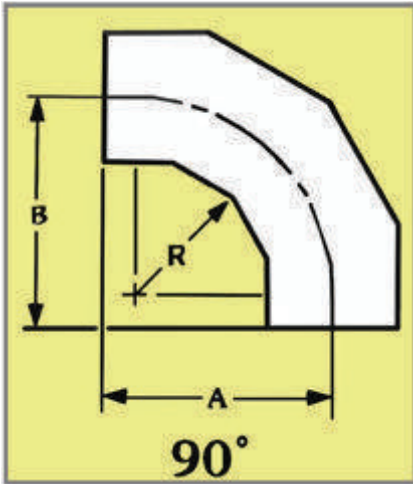


To obtain deflection at any span length for lighter loads than listed, multiply the load by the K factor. When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%.



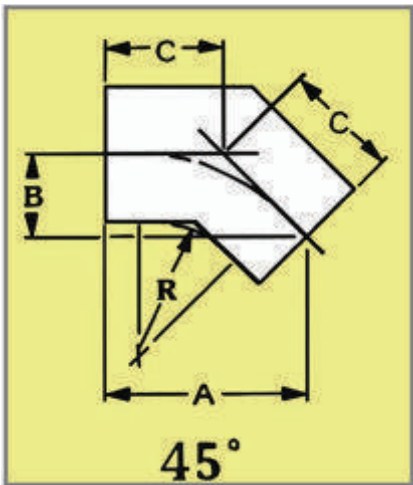
Husky Series 4			Safety Factor 1.5		
Span (Ft.)	10	12	14	16	18
Design Load Lbs./Ft.	157	109	80	61	48
Deflection	2.1	3.0	4.0	5.3	6.7
K Factor	0.013	0.028	0.050	0.087	0.140
Loading—NEMA 12C *tested per NEMA FG-1, 12" rung spacing					

90° Horizontal Bend Dimensions.



-R- Bend Radius (in.)	Tray Width (in.)	Catalog Number	A Inches	B Inches
12	6	(Prefix)-06-90HB-12	20-3/8	20-3/8
	9	(Prefix)-09-90HB-12	21-7/8	21-7/8
	12	*(Prefix)-12-90HB-12	25-1/4	25-1/4
	18	*(Prefix)-18-90HB-12	28-1/4	28-1/4
	24	*(Prefix)-24-90HB-12	31-1/4	31-1/4
	30	*(Prefix)-30-90HB-12	34-1/4	34-1/4
	36	*(Prefix)-36-90HB-12	37-1/4	37-1/4
24	6	*(Prefix)-06-90HB-24	34-1/4	34-1/4
	9	(Prefix)-09-90HB-24	35-3/4	35-3/4
	12	*(Prefix)-12-90HB-24	37-1/4	37-1/4
	18	*(Prefix)-18-90HB-24	40-1/4	40-1/4
	24	*(Prefix)-24-90HB-24	43-1/4	43-1/4
	30	(Prefix)-30-90HB-24	46-1/4	46-1/4
	36	(Prefix)-36-90HB-24	49-1/4	49-1/4
36	6	(Prefix)-06-90HB-36	46-1/4	46-1/4
	9	(Prefix)-09-90HB-36	47-3/4	47-3/4
	12	(Prefix)-12-90HB-36	49-1/4	49-1/4
	18	(Prefix)-18-90HB-36	52-1/4	52-1/4
	24	(Prefix)-24-90HB-36	55-1/4	55-1/4
	30	(Prefix)-30-90HB-36	58-1/4	58-1/4
	36	(Prefix)-36-90HB-36	61-1/4	61-1/4

45° Horizontal Bend Dimensions



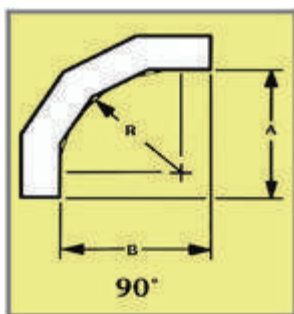
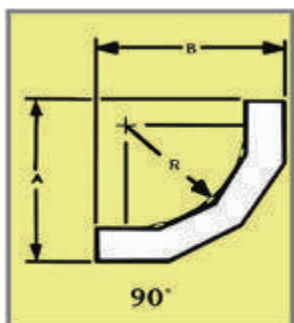
-R- Bend Radius (in.)	Tray Width (in.)	Catalog Number	A Inches	B Inches	C Inches
12	6	(Prefix)-06-45HB-12	22-13/16	9-7/16	14-3/4
	9	(Prefix)-09-45HB-12	23-7/8	9-7/8	15-15/16
	12	*(Prefix)-12-45HB-12	17-7/8	7-3/8	10-7/16
	18	*(Prefix)-18-45HB-12	20	8-1/4	11-1/16
	24	*(Prefix)-24-45HB-12	22-1/16	9-1/8	12-15/16
	30	*(Prefix)-30-45HB-12	24-3/16	10	14-3/16
	36	*(Prefix)-36-45HB-12	26-5/16	10-15/16	15-7/16
24	6	*(Prefix)-06-45HB-24	24-3/16	10	14-3/16
	9	(Prefix)-09-45HB-24	25-1/4	10-1/2	16-3/4
	12	*(Prefix)-12-45HB-24	26-5/16	10-15/16	15-7/16
	18	*(Prefix)-18-45HB-24	28-7/16	11-13/16	16-11/16
	24	*(Prefix)-24-45HB-24	30-9/16	12-11/16	17-15/16
	30	(Prefix)-30-45HB-24	32-11/16	13-9/16	25-1/2
	36	(Prefix)-36-45HB-24	34-13/16	14-7/16	27-15/16
36	6	(Prefix)-06-45HB-36	32-5/8	13-1/2	20-1/2
	9	(Prefix)-09-45HB-36	33-11/16	13-15/16	21-11/16
	12	(Prefix)-12-45HB-36	34-3/4	14-3/8	22-15/16
	18	(Prefix)-18-45HB-36	36-7/8	15-1/4	25-7/16
	24	(Prefix)-24-45HB-36	39	16-3/16	27-15/16
	30	(Prefix)-30-45HB-36	41-1/8	17-1/16	30-7/16
	36	(Prefix)-36-45HB-36	43-1/4	17-15/16	32-7/8

Available in molded or mitered

* Denotes molded fitting.



90° Vertical Bend Dimensions

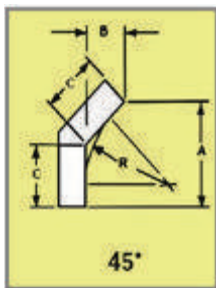
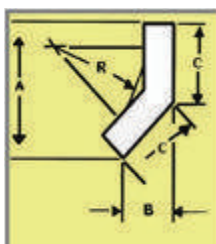

Vertical Outside Bend

Vertical Inside Bend

-R-Bend Radius (in.)	Tray Width (in.)	Catalog Number	Vertical Outside Bend		Vertical Inside Bend	
			A (in.)	B (in.)	A (in.)	B (in.)
12	6	*(Prefix)-06-90(*)12	19-1/4	19-1/4	23-1/4	23-1/4
	9	*(Prefix)-09-90(*)12				
	12	*(Prefix)-12-90(*)12				
	18	*(Prefix)-18-90(*)12				
	24	*(Prefix)-24-90(*)12				
	30	*(Prefix)-30-90(*)12				
24	36	*(Prefix)-36-90(*)12				
	6	(Prefix)-06-90(*)24	31	31	35-1/2	35-1/2
	9	(Prefix)-09-90(*)24				
	12	(Prefix)-12-90(*)24				
	18	(Prefix)-18-90(*)24				
	24	(Prefix)-24-90(*)24				
	30	(Prefix)-30-90(*)24				
36	36	(Prefix)-36-90(*)24				
	6	(Prefix)-06-90(*)24	43	43	48-1/2	48-1/2
	9	(Prefix)-09-90(*)24				
	12	(Prefix)-12-90(*)24				
	18	(Prefix)-18-90(*)24				
	24	(Prefix)-24-90(*)24				
	30	(Prefix)-30-90(*)24				
	36	(Prefix)-36-90(*)24				

Note: Dimensions are for reference only, when critical, contact factory. Consult factory for availability of molded fittings.

* Insert VO for vertical outside bend or VI for vertical inside bend.

45° Vertical Bend Dimensions


Vertical Outside Bend

Vertical Inside Bend

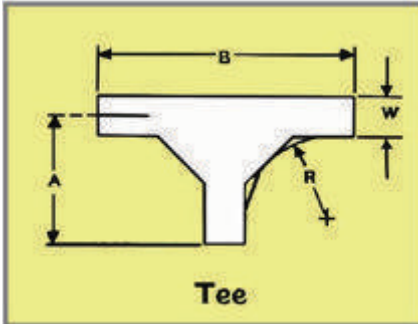
-R-Bend Radius (in.)	Tray Width (in.)	Catalog Number	Vertical Outside Bend			Vertical Inside Bend		
			A In.	B In.	C In.	A In.	B In.	C In.
12	6	*(Prefix)-06-45(*)12	13-5/8	5-5/8	8	16-7/8	2-13/16	6-13/16
	9	*(Prefix)-09-45(*)12						
	12	*(Prefix)-12-45(*)12						
	18	*(Prefix)-18-45(*)12						
	24	*(Prefix)-24-45(*)12						
	30	*(Prefix)-30-45(*)12						
24	36	*(Prefix)-36-45(*)12						
	6	(Prefix)-06-45(*)24	22-1/16	9-1/8	12-15/16	24-15/16	10-5/16	14-5/8
	9	(Prefix)-09-45(*)24						
	12	(Prefix)-12-45(*)24						
	18	(Prefix)-18-45(*)24						
	24	(Prefix)-24-45(*)24						
	30	(Prefix)-30-45(*)24						
36	36	(Prefix)-36-45(*)24						
	6	(Prefix)-06-45(*)36	37-7/16	15-1/2	21-15/16	40-5/16	16-11/16	23-5/8
	9	(Prefix)-09-45(*)36						
	12	(Prefix)-12-45(*)36						
	18	(Prefix)-18-45(*)36						
	24	(Prefix)-24-45(*)36						
	30	(Prefix)-30-45(*)36						
	36	(Prefix)-36-45(*)36						

Available in molded or mitered



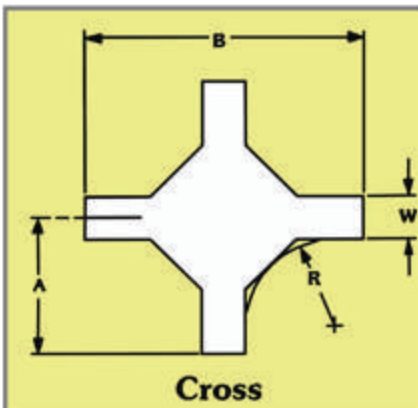
4" Horizontal Tee & Cross

Horizontal Tee



-R- Bend Radius (in.)	Tray Width (in.)	Catalog Number	A Inches	B Inches
12	6	*(Prefix)-06-HT-12	22-1/4	44-1/2
	9	*(Prefix)-09-HT-12	23-3/4	47-1/2
	12	*(Prefix)-12-HT-12	25-1/4	50-1/2
	18	*(Prefix)-18-HT-12	28-1/4	56-1/2
	24	*(Prefix)-24-HT-12	31-1/4	62-1/2
	30	*(Prefix)-30-HT-12	34-1/4	68-1/2
	36	*(Prefix)-36-HT-12	37-1/4	74-1/2
24	6	*(Prefix)-06-HT-24	34-1/4	68-1/2
	9	*(Prefix)-09-HT-24	35-3/4	71-1/2
	12	*(Prefix)-12-HT-24	37-1/4	74-1/2
	18	*(Prefix)-18-HT-24	40-1/4	80-1/2
	24	*(Prefix)-24-HT-24	43-1/4	86-1/2
	30	*(Prefix)-30-HT-24	46-1/4	92-1/2
	36	*(Prefix)-36-HT-24	49-1/4	98-1/2
36	6	(Prefix)-06-HT-36	46-1/4	92-1/2
	9	(Prefix)-09-HT-36	47-3/4	95-1/2
	12	(Prefix)-12-HT-36	49-1/4	98-1/2
	18	(Prefix)-18-HT-36	52-1/4	104-1/2
	24	(Prefix)-24-HT-36	55-1/4	110-1/2
	30	(Prefix)-30-HT-36	58-1/4	116-1/2
	36	(Prefix)-36-HT-36	61-1/4	122-1/2

Cross



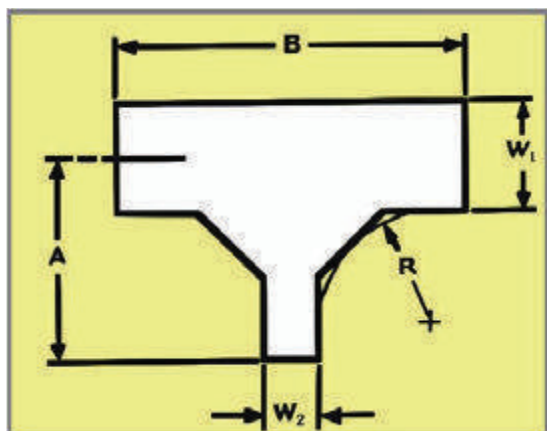
-R- Bend Radius (in.)	Tray Width (in.)	Catalog Number	A Inches	B Inches
12	6	*(Prefix)-06-HX-12	22-1/4	44-1/2
	9	*(Prefix)-09-HX-12	23-3/4	47-1/2
	12	*(Prefix)-12-HX-12	25-1/4	50-1/2
	18	*(Prefix)-18-HX-12	28-1/4	56-1/2
	24	*(Prefix)-24-HX-12	31-1/4	62-1/2
	30	*(Prefix)-30-HX-12	34-1/4	68-1/2
	36	*(Prefix)-36-HX-12	37-1/4	74-1/2
24	6	*(Prefix)-06-HX-24	34-1/4	68-1/2
	9	*(Prefix)-09-HX-24	35-3/4	71-1/2
	12	*(Prefix)-12-HX-24	37-1/4	74-1/2
	18	*(Prefix)-18-HX-24	40-1/4	80-1/2
	24	*(Prefix)-24-HX-24	43-1/4	86-1/2
	30	*(Prefix)-30-HX-24	46-1/4	92-1/2
	36	*(Prefix)-36-HX-24	49-1/4	98-1/2
36	6	(Prefix)-06-HX-36	46-1/4	92-1/2
	9	(Prefix)-09-HX-36	47-3/4	95-1/2
	12	(Prefix)-12-HX-36	49-1/4	98-1/2
	18	(Prefix)-18-HX-36	52-1/4	104-1/2
	24	(Prefix)-24-HX-36	55-1/4	110-1/2
	30	(Prefix)-30-HX-36	58-1/4	116-1/2
	36	(Prefix)-36-HX-36	61-1/4	122-1/2

Available in molded or mitered

* Denotes molded fitting.



4" Horizontal Reducing Tee



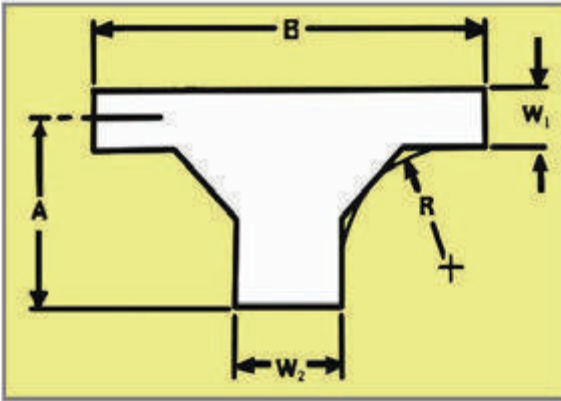
* = Insert Radius

Tray Width		36" Radius		
W1 (in.)	W2 (in.)	Catalog Number	A (in.)	B (in.)
9	6	(Prefix)-09-06-HT-36	47-3/4	92-1/2
12	6	(Prefix)-12-06-HT-36	49-1/4	92-1/2
	9	(Prefix)-12-09-HT-36	49-1/4	95-1/2
18	6	(Prefix)-18-06-HT-36	52-1/4	92-1/2
	9	(Prefix)-18-09-HT-36	52-1/4	95-1/2
	12	(Prefix)-18-12-HT-36	52-1/4	98-1/2
24	6	(Prefix)-24-06-HT-36	55-1/4	92-1/2
	9	(Prefix)-24-09-HT-36	55-1/4	95-1/2
	12	(Prefix)-24-12-HT-36	55-1/4	98-1/2
	18	(Prefix)-24-18-HT-36	55-1/4	104-1/2
30	6	(Prefix)-30-06-HT-36	58-1/4	92-1/2
	9	(Prefix)-30-09-HT-36	58-1/4	95-1/2
	12	(Prefix)-30-12-HT-36	58-1/4	98-1/2
	18	(Prefix)-30-18-HT-36	58-1/4	104-1/2
	24	(Prefix)-30-24-HT-36	58-1/4	110-1/2
36	6	(Prefix)-36-06-HT-36	61-1/4	92-1/2
	9	(Prefix)-36-09-HT-36	61-1/4	95-1/2
	12	(Prefix)-36-12-HT-36	61-1/4	98-1/2
	18	(Prefix)-36-18-HT-36	61-1/4	104-1/2
	24	(Prefix)-36-24-HT-36	61-1/4	110-1/2
	30	(Prefix)-36-30-HT-36	61-1/4	116-1/2

Tray Width			12" Radius		24" Radius	
W1 (in.)	W2 (in.)	Catalog Number (*Insert radius 12" or 24")	A (in.)	B (in.)	A (in.)	B (in.)
9	6	(Prefix)-09-06-HT-*	23-3/4	44-1/2	35-3/4	68-1/2
12	6	(Prefix)-12-06-HT-*	25-1/4	44-1/2	37-1/4	68-1/2
	9	(Prefix)-12-09-HT-*	25-1/4	47-1/2	37-1/4	71-1/2
18	6	(Prefix)-18-06-HT-*	28-1/4	44-1/2	40-1/4	68-1/2
	9	(Prefix)-18-09-HT-*	28-1/4	47-1/2	40-1/4	71-1/2
	12	(Prefix)-18-12-HT-*	28-1/4	50-1/2	40-1/4	74-1/2
24	6	(Prefix)-24-06-HT-*	31-1/4	44-1/2	43-1/4	68-1/2
	9	(Prefix)-24-09-HT-*	31-1/4	47-1/2	43-1/4	71-1/2
	12	(Prefix)-24-12-HT-*	31-1/4	50-1/2	43-1/4	74-1/2
	18	(Prefix)-24-18-HT-*	31-1/4	56-1/2	43-1/4	80-1/2
30	6	(Prefix)-30-06-HT-*	34-1/4	44-1/2	46-1/4	68-1/2
	9	(Prefix)-30-09-HT-*	34-1/4	47-1/2	46-1/4	71-1/2
	12	(Prefix)-30-12-HT-*	34-1/4	50-1/2	46-1/4	74-1/2
	18	(Prefix)-30-18-HT-*	34-1/4	56-1/2	46-1/4	80-1/2
	24	(Prefix)-30-24-HT-*	34-1/4	62-1/2	46-1/4	86-1/2
36	6	(Prefix)-36-06-HT-*	37-1/4	44-1/2	49-1/4	68-1/2
	9	(Prefix)-36-09-HT-*	37-1/4	47-1/2	49-1/4	71-1/2
	12	(Prefix)-36-12-HT-*	37-1/4	50-1/2	49-1/4	74-1/2
	18	(Prefix)-36-18-HT-*	37-1/4	56-1/2	49-1/4	80-1/2
	24	(Prefix)-36-24-HT-*	37-1/4	62-1/2	49-1/4	86-1/2
	30	(Prefix)-36-30-HT-*	37-1/4	68-1/2	49-1/4	92-1/2

Available in molded or mitered

4" Horizontal Expanding Tee



Tray Width		36" Radius		
W1 (in.)	W2 (in.)	Catalog Number	A (in.)	B (in.)
6	9	(Prefix)-06-09-HT-36	46-1/4	95-1/2
	12	(Prefix)-06-12-HT-36	46-1/4	98-1/2
	18	(Prefix)-06-18-HT-36	46-1/4	104-1/2
	24	(Prefix)-06-24-HT-36	46-1/4	110-1/2
	30	(Prefix)-06-30-HT-36	46-1/4	116-1/2
	36	(Prefix)-06-36-HT-36	46-1/4	122-1/2
9	12	(Prefix)-09-12-HT-36	47-3/4	98-1/2
	18	(Prefix)-09-18-HT-36	47-3/4	104-1/2
	24	(Prefix)-09-24-HT-36	47-3/4	110-1/2
	30	(Prefix)-09-30-HT-36	47-3/4	116-1/2
	36	(Prefix)-09-36-HT-36	47-3/4	122-1/2
12	18	(Prefix)-12-18-HT-36	48-1/4	104-1/2
	24	(Prefix)-12-24-HT-36	48-1/4	110-1/2
	30	(Prefix)-12-30-HT-36	48-1/4	116-1/2
	36	(Prefix)-12-36-HT-36	48-1/4	122-1/2
18	24	(Prefix)-18-24-HT-36	52-1/4	110-1/2
	30	(Prefix)-18-30-HT-36	52-1/4	116-1/2
	36	(Prefix)-18-36-HT-36	52-1/4	122-1/2
24	30	(Prefix)-24-30-HT-36	55-1/4	116-1/2
	36	(Prefix)-24-36-HT-36	55-1/4	122-1/2
30	36	(Prefix)-30-36-HT-36	58-1/4	122-1/2

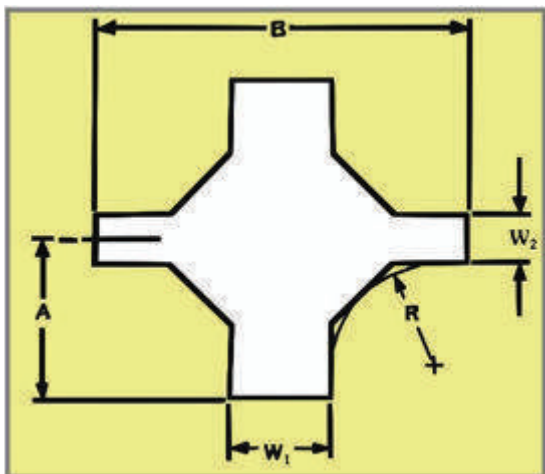
* = Insert Radius

Tray Width		12" Radius			24" Radius	
W1 (in.)	W2 (in.)	Catalog Nunmber (*Insert radius 12" or 24")	A (in.)	B (in.)	A (in.)	B (in.)
6	9	(Prefix)-06-09-HT-*	22-1/4	47-1/2	34-1/4	72-1/2
	12	(Prefix)-06-12-HT-*	22-1/4	50-1/2	34-1/4	74-1/2
	18	(Prefix)-06-18-HT-*	22-1/4	56-1/2	34-1/4	80-1/2
	24	(Prefix)-06-24-HT-*	22-1/4	62-1/2	34-1/4	86-1/2
	30	(Prefix)-06-30-HT-*	22-1/4	68-1/2	34-1/4	92-1/2
	36	(Prefix)-06-36-HT-*	22-1/4	74-1/2	34-1/4	98-1/2
9	12	(Prefix)-09-12-HT-*	23-3/4	50-1/2	35-3/4	74-1/2
	18	(Prefix)-09-18-HT-*	23-3/4	56-1/2	35-3/4	80-1/2
	24	(Prefix)-09-24-HT-*	23-3/4	62-1/2	35-3/4	86-1/2
	30	(Prefix)-09-30-HT-*	23-3/4	68-1/2	35-3/4	92-1/2
	36	(Prefix)-09-36-HT-*	23-3/4	74-1/2	35-3/4	98-1/2
12	18	(Prefix)-12-18-HT-*	25-1/4	56-1/2	37-1/4	80-1/2
	24	(Prefix)-12-24-HT-*	25-1/4	62-1/2	37-1/4	86-1/2
	30	(Prefix)-12-30-HT-*	25-1/4	68-1/2	37-1/4	92-1/2
	36	(Prefix)-12-36-HT-*	25-1/4	74-1/2	37-1/4	98-1/2
18	24	(Prefix)-18-24-HT-*	28-1/4	62-1/2	40-1/4	86-1/2
	30	(Prefix)-18-30-HT-*	28-1/4	68-1/2	40-1/4	92-1/2
	36	(Prefix)-18-36-HT-*	28-1/4	74-1/2	40-1/4	98-1/2
24	30	(Prefix)-24-30-HT-*	31-1/4	68-1/2	43-1/4	92-1/2
	36	(Prefix)-24-36-HT-*	31-1/4	74-1/2	43-1/4	98-1/2
30	36	(Prefix)-30-36-HT-*	34-1/4	74-1/2	46-1/4	98-1/2

Available in molded or mitered



4" Horizontal Expanding/ Reducing Cross



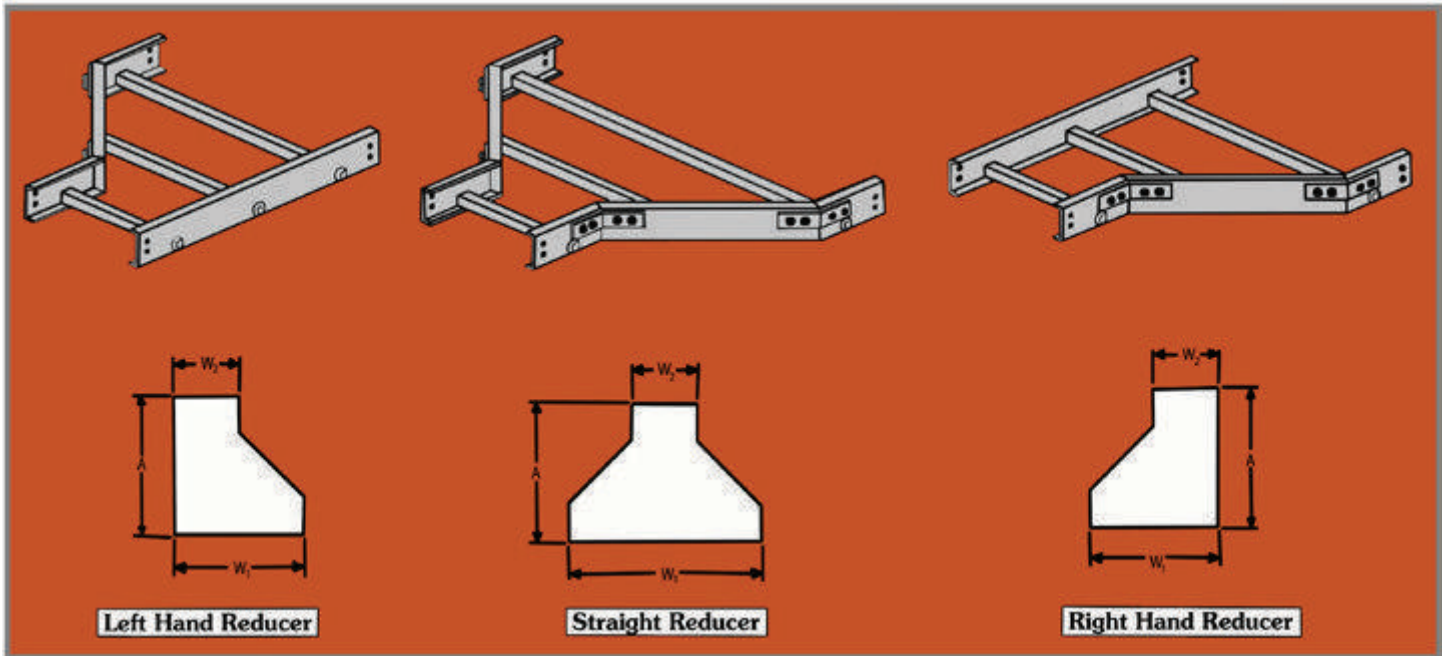
Tray Width		Catalog Number	12" Radius	
W1 (in.)	W2 (in.)		A (in.)	B (in.)
6	9	(Prefix)-06-09-HX-36	22-1/4	47-1/2
	12	(Prefix)-06-12-HX-36	22-1/4	50-1/2
	18	(Prefix)-06-18-HX-36	22-1/4	56-1/2
	24	(Prefix)-06-24-HX-36	22-1/4	62-1/2
	30	(Prefix)-06-30-HX-36	22-1/4	68-1/2
	36	(Prefix)-06-36-HX-36	22-1/4	74-1/2
9	12	(Prefix)-09-12-HX-36	23-3/4	50-1/2
	18	(Prefix)-09-18-HX-36	23-3/4	56-1/2
	24	(Prefix)-09-24-HX-36	23-3/4	62-1/2
	30	(Prefix)-09-30-HX-36	23-3/4	68-1/2
	36	(Prefix)-09-36-HX-36	23-3/4	74-1/2
12	18	(Prefix)-12-18-HX-36	25-1/4	56-1/2
	24	(Prefix)-12-24-HX-36	25-1/4	62-1/2
	30	(Prefix)-12-30-HX-36	25-1/4	68-1/2
	36	(Prefix)-12-36-HX-36	25-1/4	74-1/2
18	24	(Prefix)-18-24-HX-36	28-1/4	62-1/2
	30	(Prefix)-18-30-HX-36	28-1/4	68-1/2
	36	(Prefix)-18-36-HX-36	28-1/4	74-1/2
24	30	(Prefix)-24-30-HX-36	31-1/4	68-1/2
	36	(Prefix)-24-36-HX-36	31-1/4	74-1/2
30	36	(Prefix)-30-36-HX-36	34-1/4	74-1/2

* = Insert Radius

Tray Width		Catalog Number (*Insert radius 12" or 24")	24" Radius		36" Radius	
W1 (in.)	W2 (in.)		A (in.)	B (in.)	A (in.)	B (in.)
6	9	(Prefix)-06-09-HX-*	34-1/4	71-1/2	46-1/4	95-1/2
	12	(Prefix)-06-12-HX-*	34-1/4	74-1/2	46-1/4	98-1/2
	18	(Prefix)-06-18-HX-*	34-1/4	80-1/2	46-1/4	104-1/2
	24	(Prefix)-06-24-HX-*	34-1/4	86-1/2	46-1/4	110-1/2
	30	(Prefix)-06-30-HX-*	34-1/4	92-1/2	46-1/4	116-1/2
	36	(Prefix)-06-36-HX-*	34-1/4	98-1/2	46-1/4	122-1/2
9	12	(Prefix)-09-12-HX-*	35-3/4	74-1/2	47-3/4	98-1/2
	18	(Prefix)-09-18-HX-*	35-3/4	80-1/2	47-3/4	104-1/2
	24	(Prefix)-09-24-HX-*	35-3/4	86-1/2	47-3/4	110-1/2
	30	(Prefix)-09-30-HX-*	35-3/4	92-1/2	47-3/4	116-1/2
	36	(Prefix)-09-36-HX-*	35-3/4	98-1/2	47-3/4	122-1/2
12	18	(Prefix)-12-18-HX-*	37-1/4	80-1/2	49-1/4	104-1/2
	24	(Prefix)-12-24-HX-*	37-1/4	86-1/2	49-1/4	110-1/2
	30	(Prefix)-12-30-HX-*	37-1/4	92-1/2	49-1/4	116-1/2
	36	(Prefix)-12-36-HX-*	37-1/4	98-1/2	49-1/4	122-1/2
18	24	(Prefix)-18-24-HX-*	40-1/4	86-1/2	52-1/4	110-1/2
	30	(Prefix)-18-30-HX-*	40-1/4	92-1/2	52-1/4	116-1/2
	36	(Prefix)-18-36-HX-*	40-1/4	98-1/2	52-1/4	122-1/2
24	30	(Prefix)-24-30-HX-*	43-1/4	92-1/2	55-1/4	116-1/2
	36	(Prefix)-24-36-HX-*	43-1/4	98-1/2	55-1/4	122-1/2
30	36	(Prefix)-30-36-HX-*	46-1/4	98-1/2	58-1/4	122-1/2

Available in molded or mitered

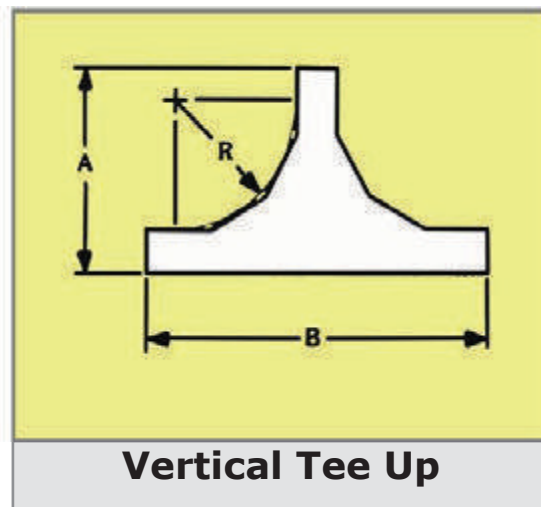
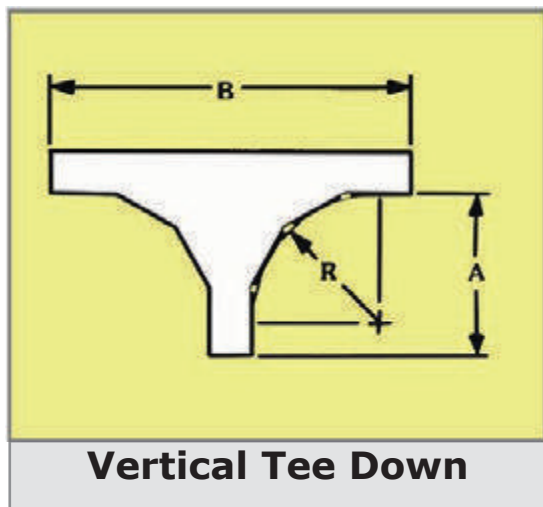
4" Reducers



Tray Width		Left Hand Reducer		Straight Reducer		Right Hand Reducer	
W1 (in.)	W2 (in.)	Catalog Number	A (in.)	Catalog Number	A (in.)	Catalog Number	A (in.)
9	6	(Prefix)-09-LR06	17-1/2	(Prefix)-09-SR06	16	(Prefix)-09-RR06	17-1/2
12	6	(Prefix)-12-LR06	20-1/2	(Prefix)-12-SR06	17-1/2	(Prefix)-12-RR06	20-1/2
	9	(Prefix)-12-LR09	17-1/2	(Prefix)-12-SR09	16	(Prefix)-12-RR09	17-1/2
18	6	(Prefix)-18-LR06	26-1/2	(Prefix)-18-SR06	20-1/2	(Prefix)-18-RR06	26-1/2
	9	(Prefix)-18-LR09	23-1/2	(Prefix)-18-SR09	19	(Prefix)-18-RR09	23-1/2
	12	(Prefix)-18-LR12	20-1/2	(Prefix)-18-SR12	17-1/2	(Prefix)-18-RR12	20-1/2
24	6	(Prefix)-24-LR06	32-1/2	(Prefix)-24-SR06	23-1/2	(Prefix)-24-RR06	32-1/2
	9	(Prefix)-24-LR09	29-1/2	(Prefix)-24-SR09	22	(Prefix)-24-RR09	29-1/2
	12	(Prefix)-24-LR12	26-1/2	(Prefix)-24-SR12	20-1/2	(Prefix)-24-RR12	26-1/2
	18	(Prefix)-24-LR18	20-1/2	(Prefix)-24-SR18	17-1/2	(Prefix)-24-RR18	20-1/2
30	6	(Prefix)-30-LR06	38-1/2	(Prefix)-30-SR06	26-1/2	(Prefix)-30-RR06	38-1/2
	9	(Prefix)-30-LR09	35-1/2	(Prefix)-30-SR09	25	(Prefix)-30-RR09	35-1/2
	12	(Prefix)-30-LR12	32-1/2	(Prefix)-30-SR12	23-1/2	(Prefix)-30-RR12	32-1/2
	18	(Prefix)-30-LR18	26-1/2	(Prefix)-30-SR18	20-1/2	(Prefix)-30-RR18	26-1/2
	24	(Prefix)-30-LR24	20-1/2	(Prefix)-30-SR24	17-1/2	(Prefix)-30-RR24	20-1/2
36	6	(Prefix)-36-LR06	44-1/2	(Prefix)-36-SR06	29-1/2	(Prefix)-36-RR06	44-1/2
	9	(Prefix)-36-LR09	41-1/2	(Prefix)-36-SR09	28	(Prefix)-36-RR09	41-1/2
	12	(Prefix)-36-LR12	38-1/2	(Prefix)-36-SR12	26-1/2	(Prefix)-36-RR12	38-1/2
	18	(Prefix)-36-LR18	32-1/2	(Prefix)-36-SR18	23-1/2	(Prefix)-36-RR18	32-1/2
	24	(Prefix)-36-LR24	26-1/2	(Prefix)-36-SR24	20-1/2	(Prefix)-36-RR24	26-1/2
	30	(Prefix)-36-LR30	20-1/2	(Prefix)-36-SR30	17-1/2	(Prefix)-36-RR30	20-1/2

16-FIBERGLASS

Available in molded or mitered



Two pair of splice plates with SS6 hardware included.

() = Insert VU or VD

			Vertical Tee Down		Vertical Tee Up	
-R- Bend Radius (in.)	Tray Width (in.)	Catalog Number	A (in.)	B (in.)	A (in.)	B (in.)
12	6	*(Prefix)-()-06-12	19-1/4	42-1/2	23-1/4	42-1/2
	9	*(Prefix)-()-09-12				
	12	*(Prefix)-()-12-12				
	18	*(Prefix)-()-18-12				
	24	*(Prefix)-()-24-12				
	30	*(Prefix)-()-30-12				
	36	*(Prefix)-()-36-12				
24	6	(Prefix)-()-06-24	31	66	35	66
	9	(Prefix)-()-09-24				
	12	(Prefix)-()-12-24				
	18	(Prefix)-()-18-24				
	24	(Prefix)-()-24-24				
	30	(Prefix)-()-30-24				
	36	(Prefix)-()-36-24				
36	6	(Prefix)-()-06-36	43	90	47	90
	9	(Prefix)-()-09-36				
	12	(Prefix)-()-12-36				
	18	(Prefix)-()-18-36				
	24	(Prefix)-()-24-36				
	30	(Prefix)-()-30-36				

Available in molded or mitered

3P-9-18-120

Prefix

3	P-	9-	18-	120
Series	Material	Rung Spacing	Width	Length

Series:

3

P=Polyester Resin

V=Vinylester Resin

Rung Spacing:

06"
09"
12"
18"

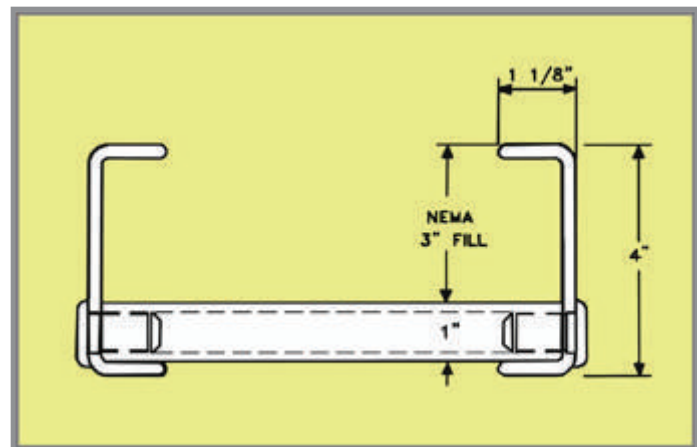
Width:

06"
09"
12"
18"
24"
30"
36"

Length:

120 (10ft.)
240 (20ft.)

To obtain deflection at any span length for lighter loads than listed, multiply the load by the K factor. When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%.



Husky Series 3

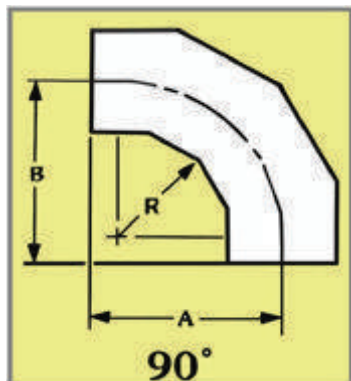
Safety Factor 1.5

Span (Ft.)	6	8	10	12	14
Design Load Lbs./Ft.	257	145	93	64	47
Deflection	1.3	2.3	3.7	5.3	7.2
K Factor	0.005	0.016	0.040	0.083	0.153
Loading—NEMA 8C *tested per NEMA FG-1, 12" rung spacing					

16-FIBERGLASS

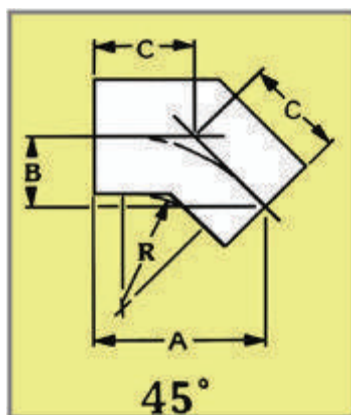


90° Horizontal Bend Dimensions.



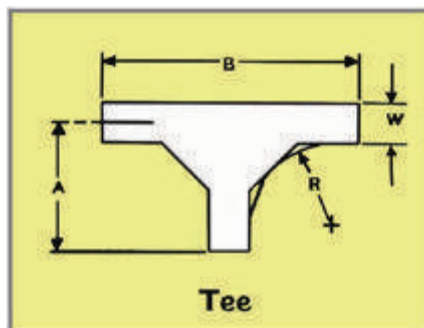
-R- Bend Radius (in.)	Tray Width (in.)	Catalog Number	A Inches	B Inches
12	6	(Prefix)-06-90HB-12	20-3/8	20-3/8
	9	(Prefix)-09-90HB-12	21-7/8	21-7/8
	12	(Prefix)-12-90HB-12	23-3/8	23-3/8
	18	(Prefix)-18-90HB-12	26-3/8	26-3/8
	24	(Prefix)-24-90HB-12	29-3/8	29-3/8

45° Horizontal Bend Dimensions



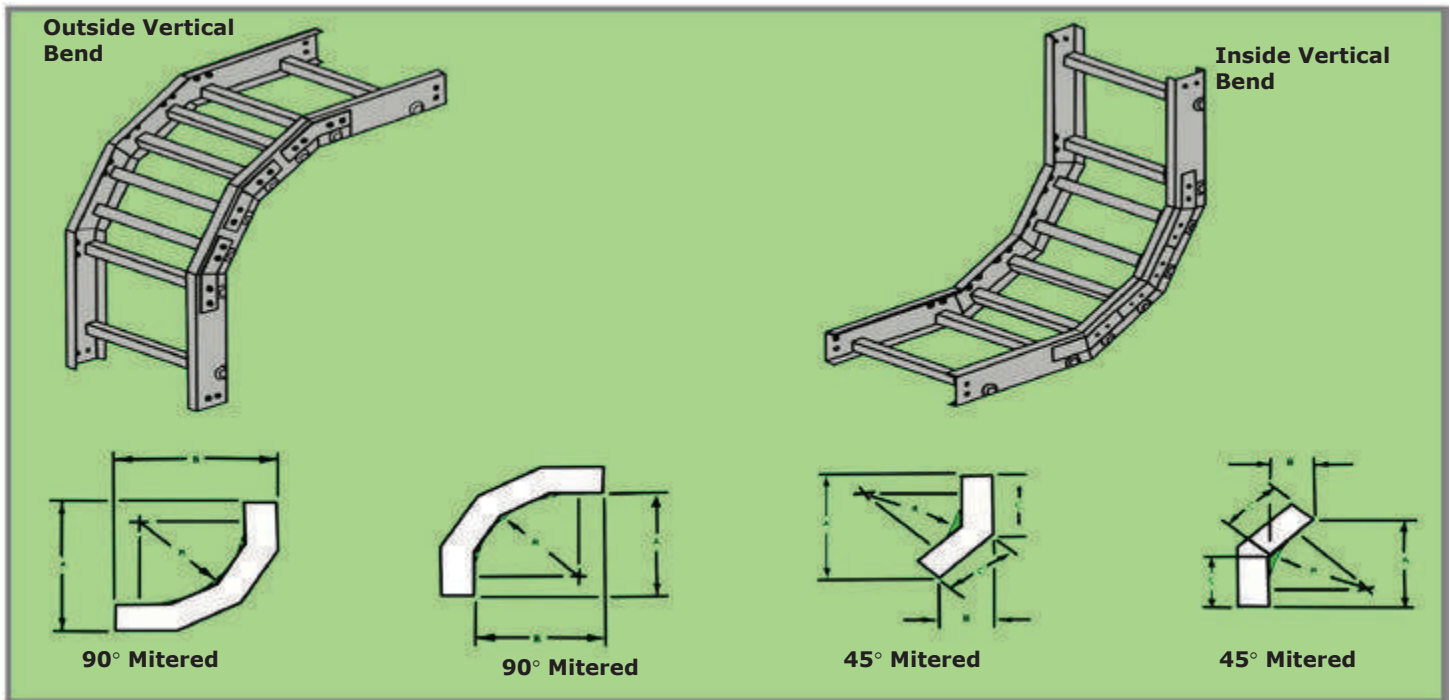
-R- Bend Radius (in.)	Tray Width (in.)	Catalog Number	A Inches	B Inches	C Inches
12	6	(Prefix)-06-45HB-12	22-13/16	9-7/16	13-3/8
	9	(Prefix)-09-45HB-12	23-7/8	9-7/8	14
	12	(Prefix)-12-45HB-12	24-7/8	10-5/16	14-5/8
	18	(Prefix)-18-45HB-12	27	11-3/16	15-7/8
	24	(Prefix)-24-45HB-12	29-3/16	12-1/16	17-1/8

Horizontal Tee



-R- Bend Radius (in.)	Tray Width (in.)	Catalog Number	A Inches	B Inches
12	6	(Prefix)-06-HT-12	19-1/4	38
	9	(Prefix)-09-HT-12	20-3/4	41-1/2
	12	(Prefix)-12-HT-12	22-1/4	44-1/2
	18	(Prefix)-18-HT-12	25-1/4	50-1/2
	24	(Prefix)-24-HT-12	28-1/4	56-1/2

Available in molded or mitered



90° Vertical Bend Dimensions

			Vertical Outside Bend		Vertical Inside Bend	
-R-Bend Radius (in.)	Tray Width (in.)	Catalog Number	A In.	B In.	A In.	B In.
12	6	(Prefix)-06-90(*)-12	20-15/16	20-15/16	26-15/16	26-15/16
	9	(Prefix)-09-90(*)-12				
	12	(Prefix)-12-90(*)-12				
	18	(Prefix)-18-90(*)-12				
	24	(Prefix)-24-90(*)-12				

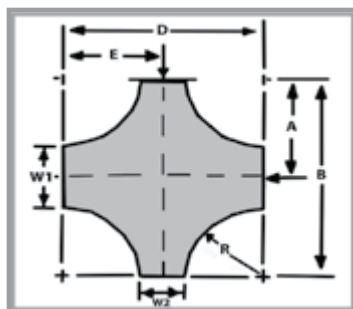
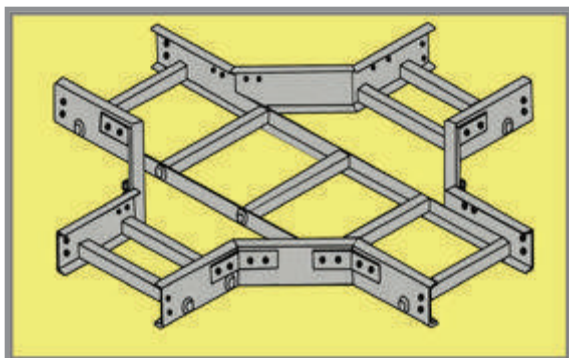
45° Vertical Bend Dimensions

			Vertical Outside Bend			Vertical Inside Bend		
-R-Bend Radius (in.)	Tray Width (in.)	Catalog Number	A In.	B In.	C In.	A In.	B In.	C In.
12	6	(Prefix)-06-45(*)-12	20-1/2	8-1/2	13-1/4	22-5/8	9-3/8	13-1/4
	9	(Prefix)-09-45(*)-12						
	12	(Prefix)-12-45(*)-12						
	18	(Prefix)-18-45(*)-12						
	24	(Prefix)-24-45(*)-12						

16-FIBERGLASS

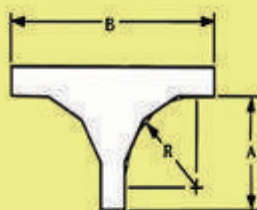
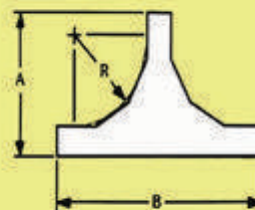
Available in molded or mitered

(*) - insert VI for vertical inside or VO for vertical outside. One pair of splice plates with SS6 hardware is included.


Mitered
3" Horizontal Expanding/Reducing Cross

Tray Width		Catalog Number	12" Radius	
W1 (in.)	W2 (in.)		A (in.)	B (in.)
9	6	(Prefix)-09-06-HX-12	19-1/4	41-1/2
12	6	(Prefix)-12-06-HX-12	19-1/4	44-1/2
	9	(Prefix)-12-09-HX-12	20-3/4	44-1/2
18	6	(Prefix)-18-06-HX-12	19-1/4	50-1/2
	9	(Prefix)-18-09-HX-12	20-3/4	50-1/2
	12	(Prefix)-18-12-HX-12	22-1/4	50-1/2
24	6	(Prefix)-24-06-HX-12	19-1/4	56-1/2
	9	(Prefix)-24-09-HX-12	20-3/4	56-1/2
	12	(Prefix)-24-12-HX-12	22-1/4	56-1/2
	18	(Prefix)-24-18-HX-12	25-1/4	56-1/2

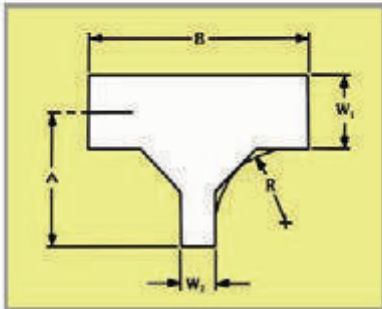
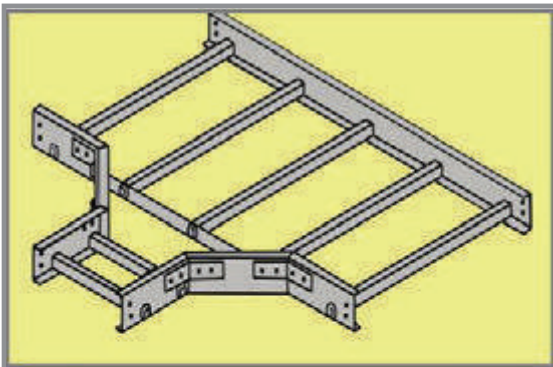
Three pair of splice plates with SS6 hardware are included.

Vertical Tee Down

Vertical Tee Up

3" Vertical Tees—Down and Up

		Catalog Number	Vertical Tee Down		Vertical Tee Up	
-R-Bend Radius (in.)	Tray Width		A (in.)	B (in.)	A (in.)	B (in.)
12	6	(Prefix)-()-06-12	23-15/16	50-7/8	26-15/16	50-7/8
	9	(Prefix)-()-09-12				
	12	(Prefix)-()-12-12				
	18	(Prefix)-()-18-12				
	24	(Prefix)-()-24-12				

() = Insert VU or VD

Available in molded or mitered



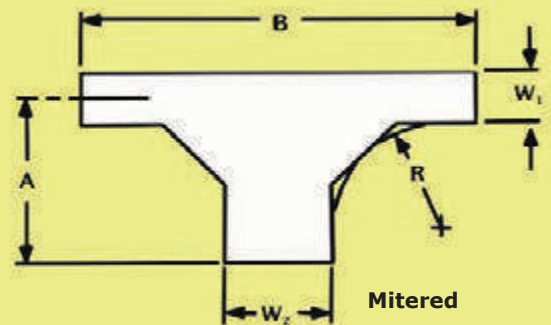
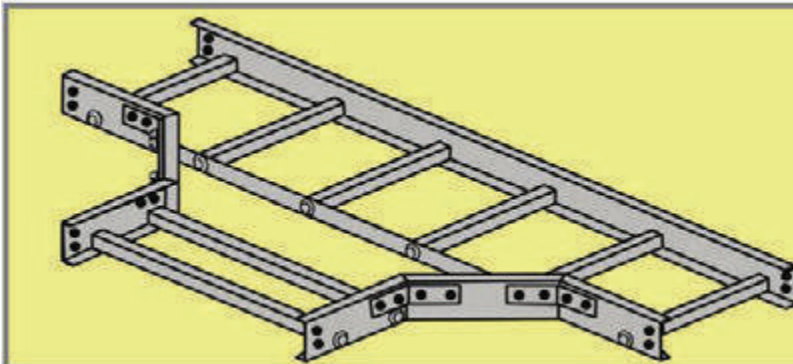
Mitered

3" Horizontal Reducing Tee

Tray Width		Catalog Number	12" Radius	
W1 (in.)	W2 (in.)		A (in.)	B (in.)
9	6	(Prefix)-09-06-HT-12	20-3/4	38-1/2
12	6	(Prefix)-12-06-HT-12	22-1/4	38-1/2
	9	(Prefix)-12-09-HT-12	22-1/4	41-1/2
18	6	(Prefix)-18-06-HT-12	25-1/4	38-1/2
	9	(Prefix)-18-09-HT-12	25-1/4	41-1/2
	12	(Prefix)-18-12-HT-12	25-1/4	44-1/2
24	6	(Prefix)-24-06-HT-12	28-1/4	38-1/2
	9	(Prefix)-24-09-HT-12	28-1/4	41-1/2
	12	(Prefix)-24-12-HT-12	28-1/4	44-1/2
	18	(Prefix)-24-18-HT-12	28-1/4	50-1/2

Two pair of splice plates with SS6 hardware are included.

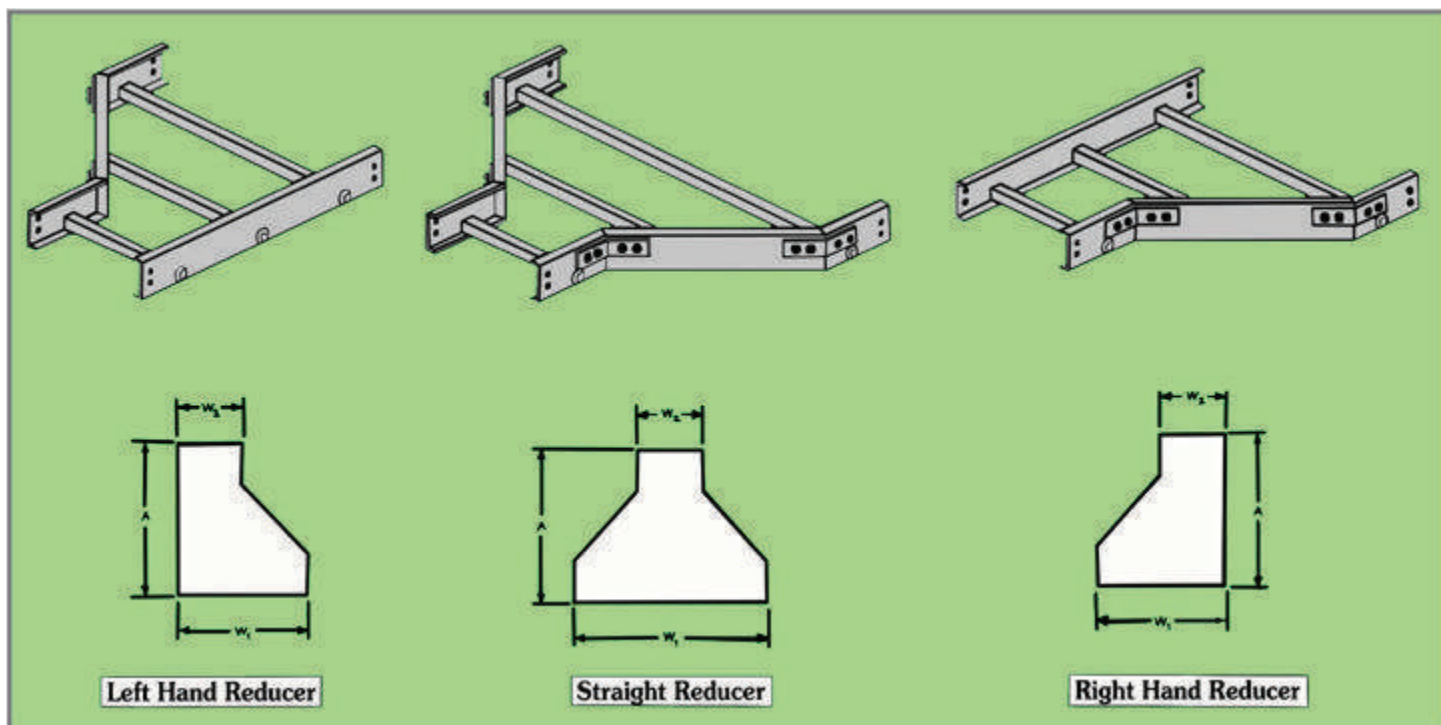
3" Horizontal Enlarging Tee



Tray Width		Catalog Number	12" Radius	
W1 (in.)	W2 (in.)		A (in.)	B (in.)
6	9	(Prefix)-06-09-HT-12	19-1/4	41-1/2
	12	(Prefix)-06-12-HT-12	19-1/4	44-1/2
	18	(Prefix)-06-18-HT-12	19-1/4	50-1/2
	24	(Prefix)-06-24-HT-12	19-1/4	56-1/2
9	12	(Prefix)-09-12-HT-12	20-3/4	44-1/2
	18	(Prefix)-09-18-HT-12	20-3/4	50-1/2
	24	(Prefix)-09-24-HT-12	20-3/4	56-1/2
12	18	(Prefix)-12-18-HT-12	22-1/4	50-1/2
	24	(Prefix)-12-24-HT-12	22-1/4	56-1/2
18	24	(Prefix)-18-24-HT-12	25-1/4	56-1/2

Two pair of splice plates with SS6 hardware are included.

Available in molded or mitered

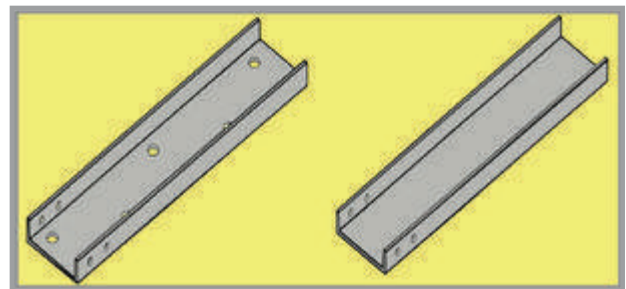


Tray Width		Left Hand Reducer		Straight Reducer		Right Hand Reducer	
W1 (in.)	W2 (in.)	Catalog Number	A (in.)	Catalog Number	A (in.)	Catalog Number	A (in.)
9	6	(Prefix)-09-LR06	17-1/2	(Prefix)-09-SR06	16	(Prefix)-09-RR06	17-1/2
12	6	(Prefix)-12-LR06	20-1/2	(Prefix)-12-SR06	17-1/2	(Prefix)-12-RR06	20-1/2
	9	(Prefix)-12-LR09	17-1/2	(Prefix)-12-SR09	16	(Prefix)-12-RR09	17-1/2
18	6	(Prefix)-18-LR06	26-1/2	(Prefix)-18-SR06	20-1/2	(Prefix)-18-RR06	26-1/2
	9	(Prefix)-18-LR09	23-1/2	(Prefix)-18-SR09	19	(Prefix)-18-RR09	23-1/2
	12	(Prefix)-18-LR12	20-1/2	(Prefix)-18-SR12	17-1/2	(Prefix)-18-RR12	20-1/2
24	6	(Prefix)-24-LR06	32-1/2	(Prefix)-24-SR06	23-1/2	(Prefix)-24-RR06	32-1/2
	9	(Prefix)-24-LR09	29-1/2	(Prefix)-24-SR09	22	(Prefix)-24-RR09	29-1/2
	12	(Prefix)-24-LR12	26-1/2	(Prefix)-24-SR12	20-1/2	(Prefix)-24-RR12	26-1/2
	18	(Prefix)-24-LR18	20-1/2	(Prefix)-24-SR18	17-1/2	(Prefix)-24-RR18	20-1/2

FCC-VP-03-120			
FCC	VP-	03-	120
Series	Material	Width	Length
Series: Channel	VP=Polyester Resin	Width: 02" 03" 04" 06" 08"	Length: 120 (10ft.) 240 (20ft.)
	VV=Vinylester Resin		

Husky Fiberglass Cable Channel Tray is available in Ventilated and Non-Ventilated Design and in Polyester or Vinylester material. The height information is listed below:

2"W—1" High
 3"W - 1" High
 4"W - 1-1/8" High
 6"W - 1-5/8" High
 8"W—2-3/16" High



Note: Splice plates are not included.

VENTILATED			
Polyester	Vinylester	Width (in.)	Length (ft.)
FCCVP-02-120	FCCVV-02-120	2	10
FCCVP-02-240	FCCVV-02-240	2	20
FCCVP-03-120	FCCVV-03-120	3	10
FCCVP-03-240	FCCVV-03-240	3	20
FCCVP-04-120	FCCVV-04-120	4	10
FCCVP-04-240	FCCVV-04-240	4	20
FCCVP-06-120	FCCVV-06-120	6	10
FCCVP-06-240	FCCVV-06-240	6	20
FCCVP-08-120	FCCVV-08-120	8	10
FCCVP-08-240	FCCVV-08-240	8	20

NON-VENTILATED			
Polyester	Vinylester	Width (in.)	Length (ft.)
FCCNP-02-120	FCCNV-02-120	2	10
FCCNP-02-240	FCCNV-02-240	2	20
FCCNP-03-120	FCCNV-03-120	3	10
FCCNP-03-240	FCCNV-03-240	3	20
FCCNP-04-120	FCCNV-04-120	4	10
FCCNP-04-240	FCCNV-04-240	4	20
FCCNP-06-120	FCCNV-06-120	6	10
FCCNP-06-240	FCCNV-06-240	6	20
FCCNP-08-120	FCCNV-08-120	8	10
FCCNP-08-240	FCCNV-08-240	8	20

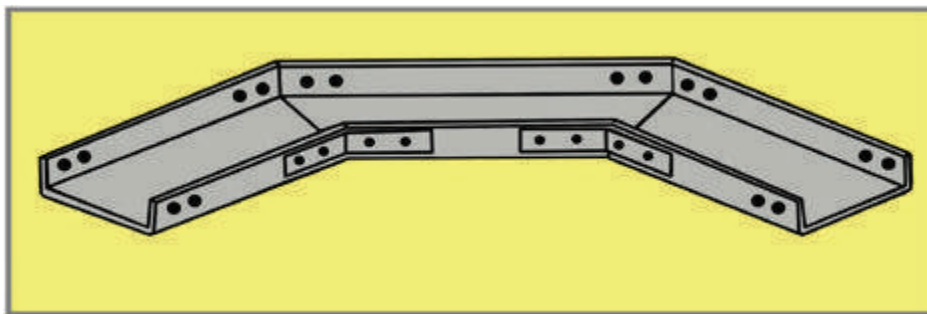
16-FIBERGLASS

Available in molded or mitered



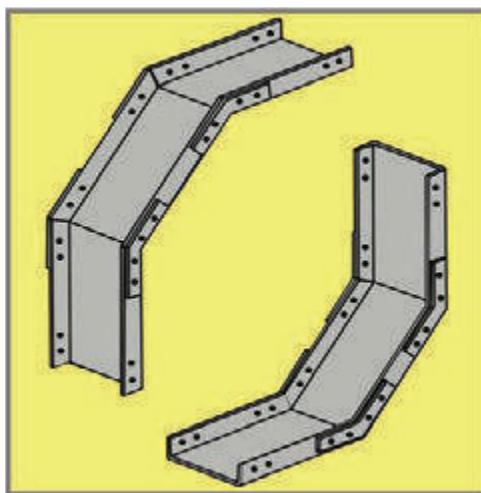


Cable Channel Fittings



One pair of splice plates are included.

Horizontal	3" Wide	4" Wide	6" Wide	8" Wide
90°	FCCNP-03-90HB-12	FCCNP-04-90HB-12	FCCNP-06-90HB-12	FCCNP-08-90HB-12
45°	FCCNP-03-45HB-12	FCCNP-04-45HB-12	FCCNP-06-45HB-12	FCCNP-08-45HB-12



One pair of splice plates are included.

Vertical	3" Wide	4" Wide	6" Wide	8" Wide
90°	FCCNP-03-90V*12	FCCNP-04-90V*12	FCCNP-06-90V*12	FCCNP-08-90V*12
45°	FCCNP-03-45V*12	FCCNP-04-45V*12	FCCNP-06-45V*12	FCCNP-08-45V*12

Notes: *Insert "O" for Vertical Out or "I" for Vertical In. For vinylester resin, "V" must be added appropriately to the part number in place of "P".

Example: FCCNV-04-90HB12

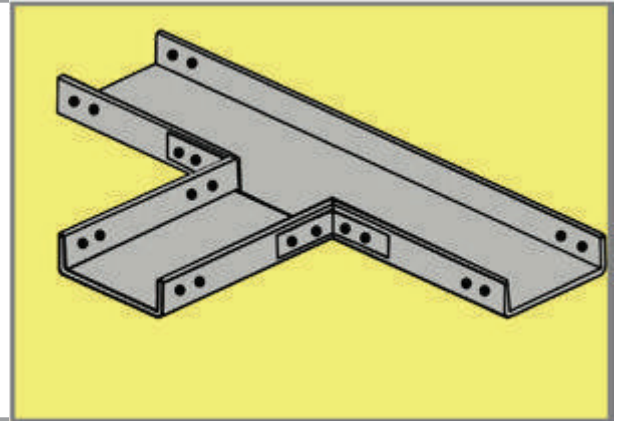
All Fittings can be supplied as Mitered or Molded. Please indicate preference when ordering by using an "M" for Mitered.

Cable Channel Fittings

Horizontal Tees

Catalog Number	Width (in.)
FCCNP-03-HT-12	03
FCCNP-04-HT-12	04
FCCNP-06-HT-12	06
FCCNP-08-HT-12	08

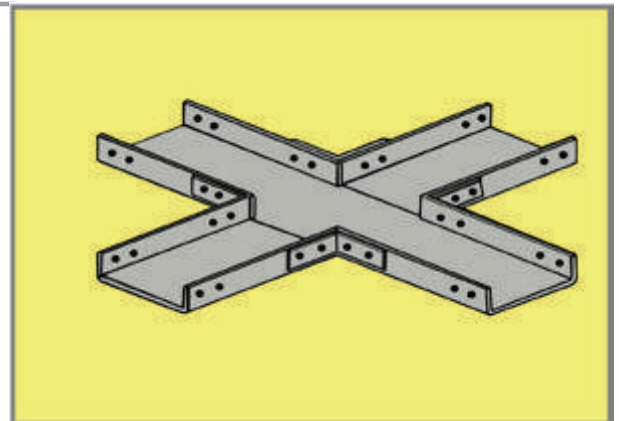
Two pairs of splice plates are included.



Horizontal Crosses

Catalog Number	Width (in.)
FCCNP-03-HX-12	03
FCCNP-04-HX-12	04
FCCNP-06-HX-12	06
FCCNP-08-HX-12	08

Three pairs of splice plates are included.

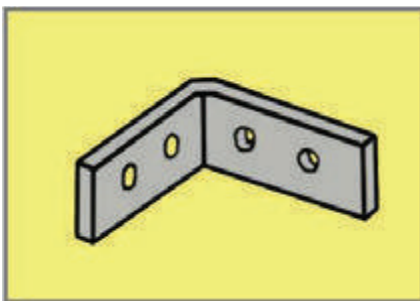


Cable Channel Splice Plates

XSS = Stainless Steel

XFP = Polyester

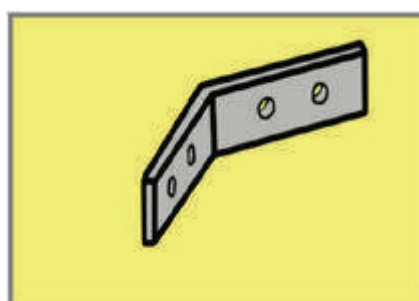
XFV = Viny Lester



Horizontal 90° Splice Plates

Catalog #
XSS-1901H-SS6
XFP-1901H-SS6
XFV-1901H-SS6

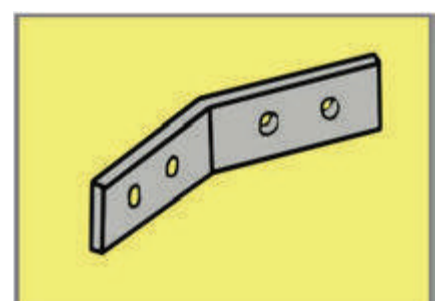
Sold in pairs.



Horizontal 45° Splice Plates

Catalog #
XSS-1451H-SS6
XFP-1451H-SS6
XFV-1451H-SS6

Sold in pairs.



Horizontal 30° Splice Plates (pairs)

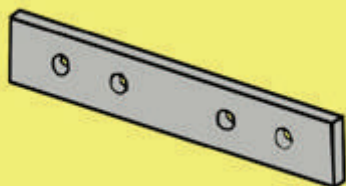
Catalog #
XSS-1301H-SS6
XFP-1301H-SS6
XFV-1301H-SS6

Sold in pairs.

Available in molded or mitered



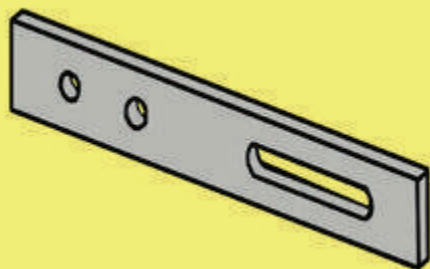
Cable Channel Splice Plates



Splice Plates

Catalog #
XSS-1001-SS6
XFP-1001-SS6
XFV-1001-SS6

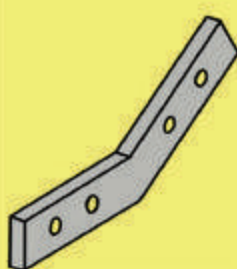
These splice plates are sold in pairs.



Expansion Splice Plates

Catalog #
XSS-1011-SS6
XFP-1011-SS6
XFV-1011-SS6

These splice plates are sold in pairs.



Vertical 30° Splice Plate

Catalog #
XSS-1301H-SS6

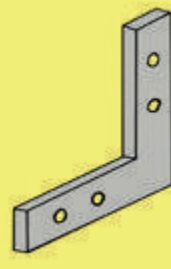
Sold in pairs.



Vertical 45° Splice Plate

Catalog #
XSS-1451H-SS6

Sold in pairs.



Vertical 90° Splice Plate

Catalog #
XSS-1901V-SS6

Sold in pairs.

XSS = Stainless Steel
 XFP = Polyester
 XFV = Vinylester

Channel Accessories

Available in molded or mitered

Part Number with Hardware Explanation—Part # XSS-0000*

*Indicates that additional information must be furnished to specify the type of hardware.

Hardware Option	316 Stainless Steel	Monel	Silicone Bronze	Husky Fiberglass
Replace * with	SS6	MO	SB	FR

Examples: XSS-4003—pair of 4 hole splice plates for 3" system without hardware

XSS-4004 SS6—pair of 4 hole splice plates for 4" system with stainless steel hardware

CSS-8006 SB—pair of 8 hole splice plates for 6" system with silicon bronze hardware



Recommended Fiberglass Cable Tray Specifications

1.0 Cable Tray Design

- 1.1 Cable Tray System shall be made of straight sections, fitting and accessories as defined in the latest NEMA standards publication FG-1.

2.0 Cable Tray Design

- 2.1 Straight section structural elements: side rails, rungs and splice plates shall be pultruded from glass fiber reinforced polyester or vinylester resin.
- 2.2 Pultruded shapes shall be constructed with a surface veil to ensure a resin-rich surface and ultraviolet resistance.
- 2.3 Pultruded shapes shall meet ASTM E-84, Class 1 flame rating and self-extinguishing requirements of ASTM D-635.

3.0 Construction

- 3.1 Straight section lengths will be 120 inches (10ft.) or 240 inches (20ft.) standard.
- 3.2 Side rails will be inward "C" configuration and be pre-drilled to accept splice plates.
- 3.3 Loading depths for cable tray systems shall be 5", 3", or 2" as per NEMA FG-1 tolerances. Overall heights shall be 6", 4", or 3" respectively.

4.0 Fittings

- 4.1 Molded fittings shall be formed with a minimum 3" tangent following the radius.
- 4.2 3" or 5" loading depth systems shall have 90° and 45° molded fittings in 12" or 24" radius.
- 4.3 All fittings not included in 4.2 should be of mitered construction.
- 4.4 Width—useable inside tray width shall be 6", 9", 12", 18", 24", 30", or 36". Outside width shall not exceed inside by more than a total of 2".
- 4.5 Straight and expansion splice plates will be of stainless steel or Husky Fiberglass design with an eight bolt pattern in 5" fill systems and four bolt pattern in 3" and 2" fill systems.
- 4.6 Dimension tolerances will be per NEMA FG-1.
- 4.7 Cable tray must have integral connection between side rails and rungs consisting of non-metallic mechanical fasteners and adhesive bonding.

5.0 Manufacture

- 5.1 All manufacturing practices will be in accordance with NEMA FG-1.



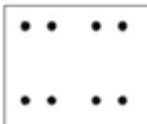


Accessories

Standard Splice Plates

Included in needed quantities with tray section:

- ◆ Order only pairs of splice plates needed for field fabrication.
- ◆ SS6 hardware supplied as standard—use SS6 suffix.
- ◆ Other hardware available, specify by hardware suffix. Hardware other than SS6 is considered special.



Height	Catalog No. (Stainless)	Catalog No. (Polyester)	Catalog No. (Vinylester)
6"	XSS-8006*	XFP-8006*	XFV-8006*
4"	XSS-4004*	XFP-4004*	XFV-4004*
3"	XSS-4003*	XFP-4003*	XFV-4003*

Expansion Splice Plate

- ◆ * = Hardware suffix needed to complete part number.



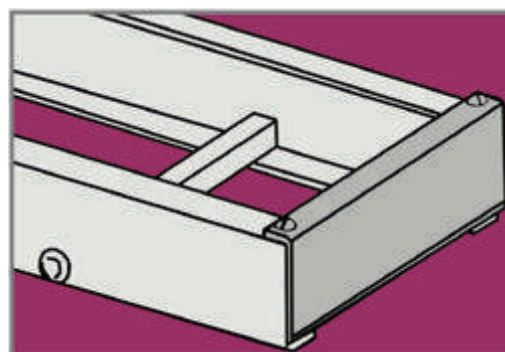
Height	Catalog No. (Stainless)	Catalog No. (Polyester)	Catalog No. (Vinylester)
6"	XSS-8016*	XFP-8016*	XFV-8016*
4"	XSS-4014*	XFP-4014*	XFV-4014*
3"	XSS-4013*	XFP-4013*	XFV-4013*

Blind End Plate

This plate forms a closure for any tray that dead ends.

- ◆ Furnished as on plate
- ◆ W = tray width
- ◆ * = hardware suffix needed to complete part number

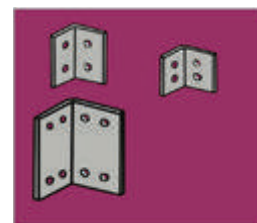
Height	Catalog No. (Polyester)	Catalog No. (Vinylester)
6"	XBEP-1086-W*	XBEV-1086-W*
4"	XBEP-1084-W*	XBEV-1084-W*
3"	XBEP-1083-W*	XBEV-1083-W*



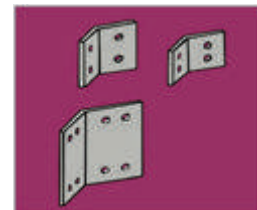
Horizontal Splice Plates

90°

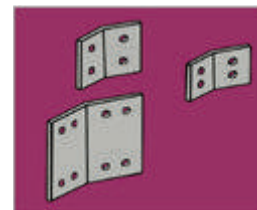
Height	Catalog No. (Stainless)	Catalog No. (Polyester)	Catalog No. (Vinylester)
6"	XSS-8906H*	XFP-8906H*	XFV-8906H*
4"	XSS-4904H*	XFP-4904H*	XFV-4904H*
3"	XSS-4903H*	XFP-4903H*	XFV-4903H*


45°

Height	Catalog No. (Stainless)	Catalog No. (Polyester)	Catalog No. (Vinylester)
6"	XSS-8456H*	XFP-8456H*	XFV-8456H*
4"	XSS-4454H*	XFP-4454H*	XFV-4454H*
3"	XSS-4453H*	XFP-4453H*	XFV-4453H*

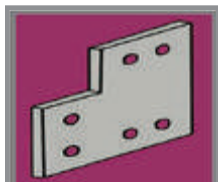

30°

Height	Catalog No. (Stainless)	Catalog No. (Polyester)	Catalog No. (Vinylester)
6"	XSS-8306H*	XFP-8306H*	XFV-8306H*
4"	XSS-4304H*	XFP-4304H*	XFV-4304H*
3"	XSS-4303H*	XFP-4303H*	XFV-4303H*



Accessories

Step Down Plates



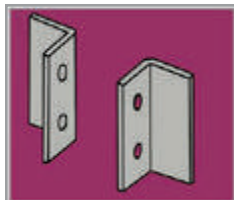
These splice plates provide for changes in side tail heights.

- ◆ Furnished in pairs

* Hardware suffix needed to complete part number

Height	Catalog No. (Stainless)	Catalog No. (Polyester)	Catalog No. (Vinylester)
6" to 3"	XSS-8063*	XFP-8063*	XFV-8063*
6" to 4"	XSS-8064*	XFP-8064*	XFV-8064*
4" to 3"	XSS-4043*	XFP-4043*	XFV-4043*

Tray to Box Splice Plates



These plates are used to attach the end of a tray run to a distribution box or control center.

- ◆ Furnished in pairs
- ◆ Not available in stainless steel

* Hardware suffix needed to complete part number

Height	Catalog No. (Polyester)	Catalog No. (Vinylester)
6"	XFP-8056*	XFV-8056*
4"	XFP-4054*	XFV-4054*
3"	XFP-4053*	XFV-4053*

Adjustable Splice Plates

These plates provide for changes in elevation and horizontal direction that do not conform to standard fittings. (Sold in pairs)

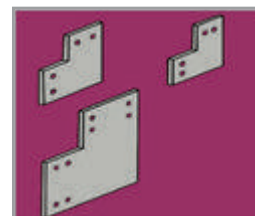
Material	Height	Catalog No. Vertical	Catalog No. Horizontal
Stainless Steel	6"	XSS-8026*	XSS-8036*
Stainless Steel	4"	XSS-4024*	XSS-4034*
Stainless Steel	3"	XSS-4023*	XSS-4033*

*Hardware suffix needed to complete part number

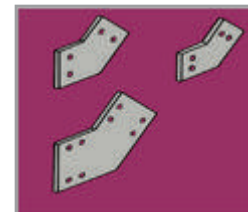
Vertical Splice Plates

90°

Height	Catalog No. (Stainless)	Catalog No. (Polyester)	Catalog No. (Vinylester)
6"	XSS-8906V*	XFP-8906V*	XFV-8906V*
4"	XSS-4904V*	XFP-4904V*	XFV-4904V*
3"	XSS-4903V*	XFP-4903V*	XFV-4903V*


45°

Height	Catalog No. (Stainless)	Catalog No. (Polyester)	Catalog No. (Vinylester)
6"	XSS-8456V*	XFP-8456V*	XFV-8456V*
4"	XSS-4454V*	XFP-4454V*	XFV-4454V*
3"	XSS-4453V*	XFP-4453V*	XFV-4453V*


30°

Height	Catalog No. (Stainless)	Catalog No. (Polyester)	Catalog No. (Vinylester)
6"	XSS-8306V*	XFP-8306V*	XFV-8306V*
4"	XSS-4304V*	XFP-4304V*	XFV-4304V*
3"	XSS-4303V*	XFP-4303V*	XFV-4303V*



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NOTE: Hardware suffix is needed to complete the part number.
All splice plate hardware is 3/8"

Hardware suffixes:

SS6 = 316SS

SB = Silicon Bronze

MO = Monel

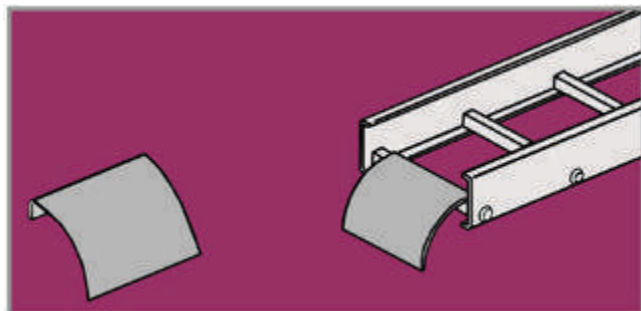
FR = Husky Fiberglass

**Ladder Drop Out**

Specially designed Ladder Drop-Outs provide a rounded surface with adequate radius to protect cable as it exits from the tray, preventing damage to insulation. (4" radius)

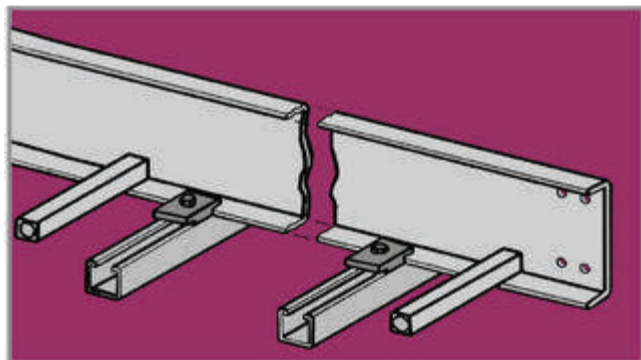
Catalog #XDOP-1104-W

(W = width)

**Clamp/Guide—Husky Fiberglass**

Designed for use with 3/8" hardware (not included). Combination hold down clamp and guide. This item is sold in pairs.

Catalog #XFP-1208 (non-metallic)

**Flexible Horizontal and Straight Barrier Kit**

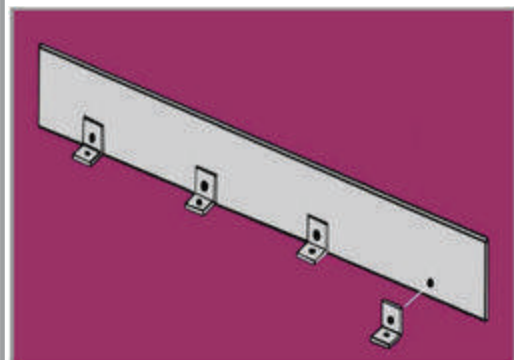
One flexible kit allows up to 38" radius position of the barrier. For larger than 38" radius, two kits are required.

Side Rail Height	Loading Depth 'H'	Flexible Barrier Kit Number	Straight Barrier Number
6"	4-11/16"	BS06P-90HBFL	BSO6P-120
4"	2-11/16"	BS04P-90HBFL	BSO4P-120
3"	1-3/4"	BS03P-90HBFL	BSO3P-120

For Vinylester—replace "P" with V".

Kit Contents—1pc. Of 72" straight barrier, 4 barrier strip clips, 8 thermo plastic drive rivets, 4 stainless steel self drilling screws.

Assembly required—directions are included.

**Vertical Barriers**

Sample Catalog #BS06P-90VO-24

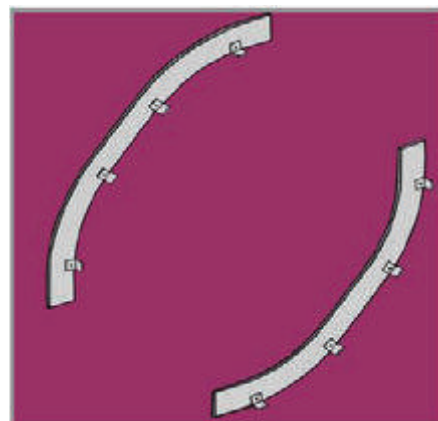
BS06 = Barrier Size

P = Polyester Material (use V for Vinylester)

90 = Angle

VO = Vertical Inside or Vertical Outside

24 = Radius



Resin Seal Kit and Spray Sealant

Brush-On Resin Seal Kit is used to reseal Husky Fiberglass after field modifications.

Catalog #8-2-SEAL (1 pint)

Catalog #8-2-Seal-QT (1 quart)

Contents: Resin, Catalyst, Stir Stick, and Applicator. All kits are Vinylester Resin.

Spray Sealant is also used to reseal Husky Fiberglass after field modifications.

Catalog #Clear-1215

12 fl. oz. spray acrylic



Drive Rivet

Shipped in packages of 25 pcs.

Catalog #TPDR (Thermo Plastic)

Catalog #S34PR (Stainless)



Cover

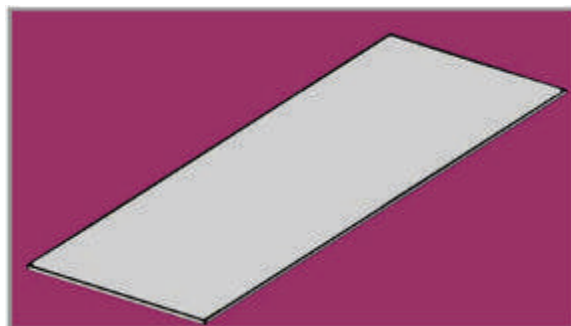
1/8" Thick, 120" Long

10 ea. #10 stainless, self-drilling screws are provided with each section.

Catalog #	Description
FC-P-W*-120	Flat Polyester
FC-V-W*-120	Flat Vinylester
PC-P-W*-120	Peaked Polyester
PC-V-W*-120	Peaked Vinylester

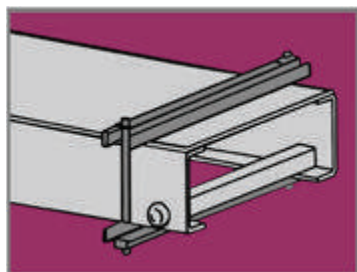
Peaked covers are for straight sections only.

W* = insert width of tray.



Cover Clamps

Heavy Duty Cover Clamp



Catalog #	Side Rail Height
XWC-P-W*-9064	6"
XWC-P-W*-9044	4"
XWC-P-W*-9034	3"

For Vinylester, replace "P" with "V" in the catalog number on Cover and Cover Clamps.

W* = tray width



Loading Information—Beam Loads: The charts below list the total allowable uniform load for various simple spans based on a minimum safety factor of 2. If the load is concentrated at the center span, multiply the load from the below charts by 0.5 and the corresponding deflection by 0.8. Note: All beams should be supported in a manner to prevent rotation at supports. Long, deep beams should be tied between supports to prevent twist.

Beam Loading Data for Glass Reinforced Polyester Resin

		Maximum Allow. Load		Defl. @ Maximum Allow. Beam Load		Allowable Load @ Deflection			
						1/240 Span		1/360 Span	
Beam Span	Part Number	lbs.	N	in.	mm	lbs.	N	lbs.	N
12" (305)	SSP-100	793	3527	0.106	2.69	373	1659	249	1107
	SSP-100-D	2301	10235	0.060	1.52	1928	8576	1285	5715
	SSP-158	1783	7931	0.067	1.70	1327	5902	885	3936
	SSP-158-D	5172	23005	0.037	.94	5172	23005	4696	20888
24" (609)	SSPP-100	397	1766	0.425	10.79	93	413	62	276
	SSPP-100-D	1150	5115	0.239	6.07	482	2144	321	1428
	SSPP-158	891	3963	0.269	6.83	332	1477	221	983
	SSPP-158-D	2586	11502	0.147	3.73	1761	7833	1174	5222
36" (914)	SSP-100	264	1174	0.957	24.31	41	182	28	124
	SSP-100-D	767	3411	0.537	13.64	214	952	143	636
	SSP-158	594	2642	0.604	15.34	147	654	98	436
	SSP-158-D	1724	7668	0.330	8.38	783	3483	522	2322

Beam Loading Data for Glass Reinforced Vinylester Resin

		Maximum Allow. Load		Defl. @ Maximum Allow. Beam Load		Allowable Load @ Deflection			
						1/240 Span		1/360 Span	
Beam Span	Part Number	lbs.	N	in.	mm	lbs.	N	lbs.	N
12" (304)	SSV-100	988	4394	0.112	2.84	441	1961	294	1308
	SSV-100-D	2866	12748	0.063	1.60	2279	10137	1519	6756
	SSV-158	2221	9879	0.071	1.80	1569	6979	1046	4652
	SSV-158-D	6443	28658	0.039	.99	6443	28658	5550	24686
24" (609)	SSV-100	494	2197	0.448	11.38	110	489	73	325
	SSV-100-D	1433	6374	0.252	6.40	570	2535	380	1690
	SSV-158	1110	4937	0.283	7.19	392	1743	261	1161
	SSV-158-D	3221	14327	0.155	3.94	2081	9256	1387	6169
36" (914)	SSV-100	329	1463	1.009	25.63	49	218	33	147
	SSV-100-D	955	4248	0.566	14.37	253	1125	169	752
	SSV-158	740	3291	0.637	16.18	174	774	116	516
	SSV-158-D	2148	9554	0.348	8.84	925	4114	617	2744

Recommended Guideline:

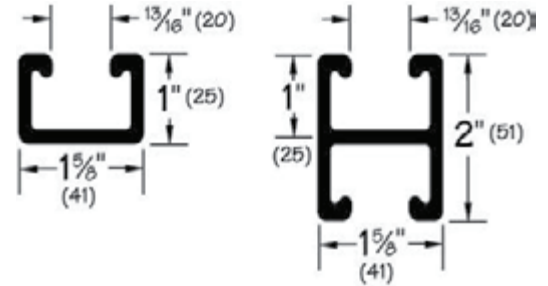
Published design loads are based on usage @ 70°F(21°C) and must be reduced for continuous exposure to higher temperatures. Refer to the chart at right for high temperature applications.



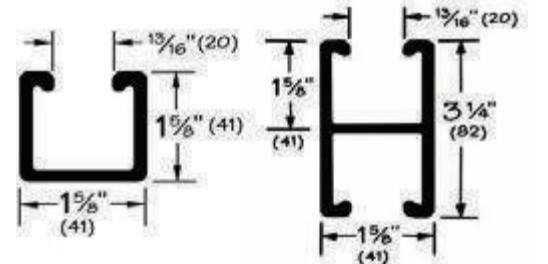
Channels, Combinations and Hole Patterns

"-D" suffix identifies "back-to-back" or "double" channel

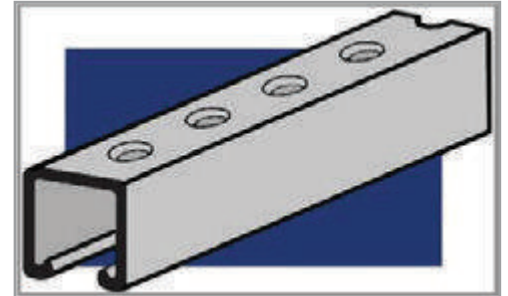
Part #	Material/Resin	Description	Color	Wt lbs./ft.	Wt kg/ft.
SSP-100	Polyester	Solid Back	Gray	.47	.70
SSV-100	Vinylester	Solid Back	Beige	.47	.70
SSP-100-D	Polyester	Solid Back	Gray	.86	1.28
SSV-100-D	Vinylester	Solid Back	Beige	.86	1.28



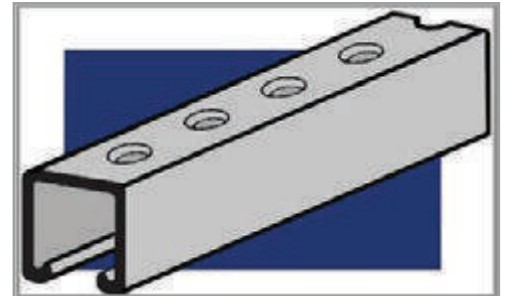
Part #	Material/Resin	Description	Color	Wt lbs./ft.	Wt kg/ft.
SSP-158	Polyester	Solid Back	Gray	.63	.94
SSV-158	Vinylester	Solid Back	Beige	.63	.94
SSP-158-D	Polyester	Solid Back	Gray	1.17	1.75
SSV-158-D	Vinylester	Solid Back	Beige	1.17	1.75



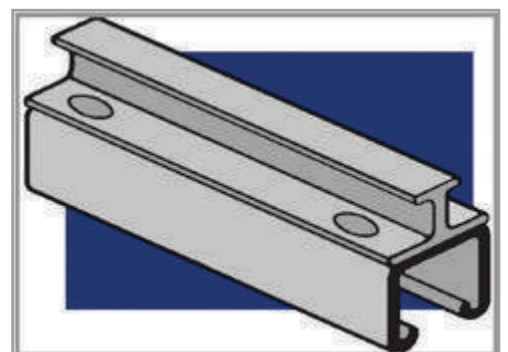
Part #	Material/Resin	Description	Color	Wt lbs./ft.	Wt kg/ft.
SSP-100-H	Polyester	Holes in Back	Gray	.45	.67
SSV-100-H	Vinylester	Holes in Back	Beige	.45	.67
SSP-158-H	Polyester	Holes in Back	Gray	.61	.91
SSV-158-H	Vinylester	Holes in Back	Beige	.61	.91



Part #	Material/Resin	Description	Color	Wt lbs./ft.	Wt kg/ft.
SSP-100-S	Polyester	Slots in Back	Gray	.46	.69
SSV-100-S	Vinylester	Slots in Back	Beige	.46	.69
SSP-158-S	Polyester	Slots in Back	Gray	.62	.93
SSV-158-S	Vinylester	Slots in Back	Beige	.62	.93



Part #	Material/Resin	Description	Color	Wt lbs./ft.	Wt kg/ft.
SSP-158-I	Polyester	Conc. Insert	Gray	1.04	1.55
SSV-158-I	Vinylester	Conc. Insert	Beige	1.04	1.55



Available in 2 sizes:

-120 = 10' lengths

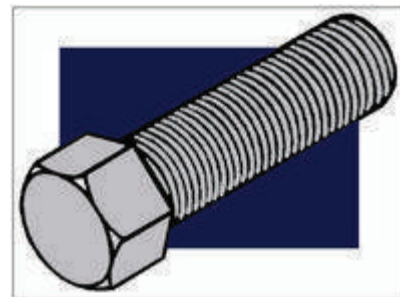
-240 = 20' lengths

16-FIBERGLASS



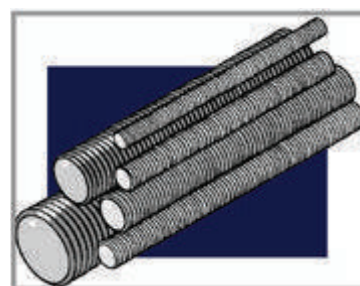
Hex Head Bolt

Part #	Thread Size	Design lbs.	Load N	Max in-lbs	Torque N-m	Weight / lbs.	C g
F516100 5/16x1	5/16"-18	190	845	30	3.4	.4	181
F516114 5/16x-1/4	5/16"-18	190	845	30	3.4	.4	181
F38100 3/8x1	3/8"-16	300	1334	45	5.1	.9	408
F38114 3/8x1-1/4	3/8"-16	300	1334	45	5.1	1.1	499
F38212 3/8x2-1/2	3/8"-16	300	1334	45	5.1	1.5	680
F12100 1/2x1	1/2"-13	490	2180	110	12.4	1.4	635
F12114 1/2x1-1/4	1/2"-13	490	2180	110	12.4	1.8	816
F12212 1/2x2-1/2	1/2"-13	490	2180	110	12.4	3.7	1678



All-Thread Rod

Part #	Thread Size	Design lbs.	Load N	Max in-lbs	Torque N-m	Weight / lbs.	C g
F38AT	3/8"-16	425	1890	45	5.1	.08	36
F12AT	1/2"-13	750	3336	110	12.4	.13	59
F58AT	5/8"-11	950	4226	230	26.0	.21	95



Available in 4' lengths

Hex Nut

Part #	Thread Size	H in.	mm	Weight / lbs.	C g
F38HN	3/8"-16	21/64	8	.3	136
F12HN	1/2"-13	7/16	11	.7	318
F58HN	5/8"-11	35/64	14	1.4	635



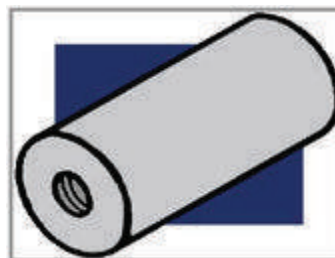
All-Thread Rod Hex Nut

Part #	Thread Size	H in.	mm	Weight / lbs.	C g
F38ATHN	3/8"-16	3/4	19	.8	376
F12ATHN	1/2"-13	7/8	22	1.7	771



Rod Coupler

Part #	Thread Size	Weight / lbs.	C g
FRC38	3/8"-16	7.4	3357
FRC12	1/2"-13	11.3	5118
FRC58	5/8"-11	16.7	7575

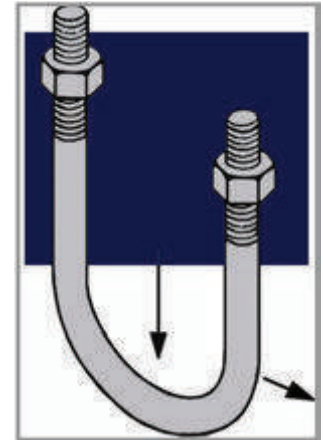


Other sizes are available, please consult factory for details.



U-Bolt

Part #	Nominal in.	Pipe Size mm	Design lbs.	Load A in.	Design lbs.	Load B in.	Max in-lbs.	Torque N-m	Wt/ lbs.	c g
FUB050	1/2	15	300	1334	150	667	30	3.4	3.5	1588
FUB075	3/4	20	300	1334	150	667	30	3.4	3.9	1769
FUB100	1	25	300	1334	150	667	30	3.4	4.4	1996
FUB114	1-1/4	32	300	1334	150	667	30	3.4	4.8	2177
FUB112	1-1/2	40	300	1334	150	667	30	3.4	5.2	2359
FUB200	2	50	600	2669	200	890	60	6.8	7.7	3493
FUB212	2-1/2	65	600	2669	200	890	60	6.8	10.2	4627
FUB300	3	80	600	2669	200	890	60	6.8	12.6	5715
FUB312	3-1/2	90	600	2669	200	890	60	6.8	15.1	6849
FUB400	4	100	600	2669	200	890	60	6.8	17.6	7983



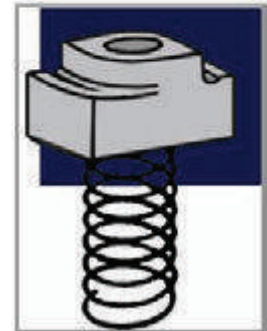
Channel Nuts & Washers

Part # w/Spring	Part # w/out Spring	Thread	Pull-lbs.	Out N	Slip lbs.	Resist. N	Max. in-lbs	Torque N-m	Wt/ lbs.	C g
FCN38	FCN38WO	3/8-16	300	1334	150	667	200	22.6	2.3	1043
FCN12	FCN12WO	1/2-13	300	1334	150	667	200	22.6	2.3	1043



Flat Washer

Part #	Hole Size	Weight lbs.	C g
F38W	3/8"	.5	227
F12W	1/2"	.5	227
F58W	5/8"	.5	227
F34W	3/4"	.5	227
F100W	1"	.5	227



Resin Seal Kit and Spray Sealant

Brush-On Resin Seal Kit is used to reseal Husky Fiberglass after field modifications.

Catalog #8-2-SEAL (1 pint)

Catalog #8-2-Seal-QT (1 quart)

Contents: Resin, Catalyst, Stir Stick, and Applicator. All kits are Vinylester Resin.

Spray Sealant is also used to reseal Husky Fiberglass after field modifications.

Catalog #Clear-1215

12 fl. oz. spray acrylic

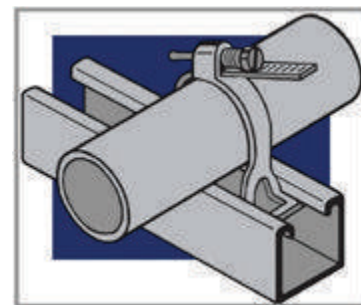


16-FIBERGLASS



Adjustable Pipe Clamp

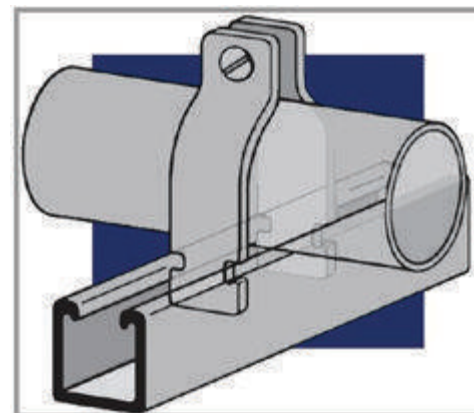
Part #	Nominal in.	Pipe Size mm	Pipe lbs.	O.D. Range mm	Design lbs.	Load N	Max. in-lbs	Torque N-m
SAPC050	1/2 to 3/4	15,20	75-1.05	19-28	75	.33	15	1.69
SAPC100	1-1 to 1/2	25,40	1.05-1.90	29-48	150	.67	22	2.48
SAPC112	1-1/2 to 2-1/2	40,65	1.90-2.87	48-73	150	.67	22	2.48
SAPC212	2-1/2 to 3-1/2	65,90	2.87-4.0	73-101	150	.67	22	2.48



Safety factor of 3 on Design Load. Not recommended for vertical installation without additional supports.

Rigid Pipe Clamp

Part #	Nominal in.	Pipe Size mm	Design lbs.	Load N	Max. in-lbs	Torque N-m
SRPC050	1/2	15	300	1.33	10	1.13
SRPC075	3/4	20	300	1.33	10	1.13
SRPC100	1	25	300	1.33	10	1.13
SRPC114	1-1/4	32	300	1.33	10	1.13
SRPC112	1-1/2	40	300	1.33	10	1.13
SRPC200	2	50	300	1.33	10	1.13
SRPC212	2-1/2	65	300	1.33	10	1.13
SRPC300	3	80	300	1.33	10	1.13
SRPC312	3-1/2	90	300	1.33	10	1.13
SRPC400	4	100	300	1.33	10	1.13



Safety factor of 3 on Design Load. Not recommended for vertical installation without additional supports.

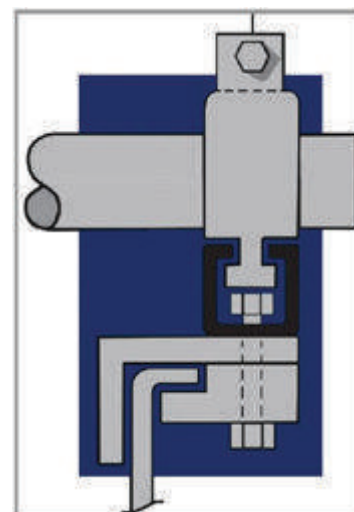
Conduit Swivel Clamp

Cable Tray Designation (CTD) Required.

Example: 6CP, 4P

Pipe clamps are a separate order item.

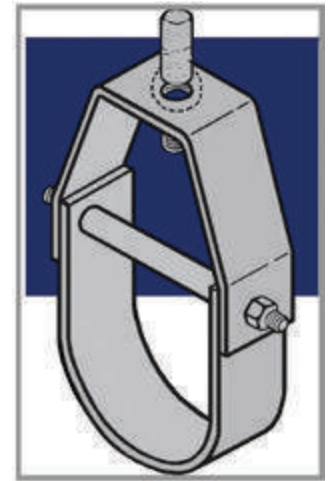
Catalog #SCSC-(CTD)



Clevis Hangers

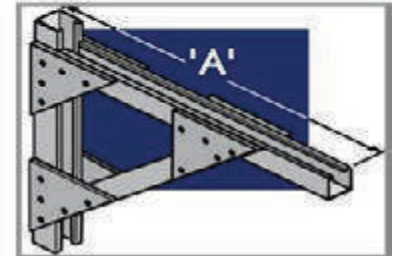
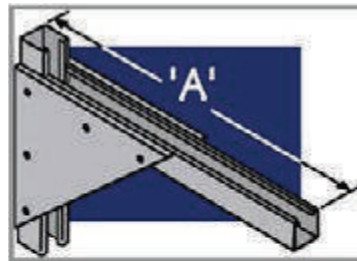
Part #	Nominal in.	Pipe Size mm	Max. Pipe lbs.	O.D. Range mm	Design lbs.	Load N	Hanger Rod Size
SCH200	2	50	2-1/2	63	90	.40	1/2"-13
SCH212	2-1/2	65	3-1/4	82	120	.54	1/2"-13
SCH300	3	80	3-7/8	98	160	.71	1/2"-13
SCH400	4	100	5	127	250	1.12	5/8"-11
SCH600	6	150	7	177	400	1.79	5/8"-11
SCH800	8	200	9	228	450	2.01	5/8"-11
SCH1000	10	250	11-3/8	289	500	2.24	5/8"-11
SCH1200	12	300	13-1/2	342	600	2.69	5/8"-11

Safety Factor of 3 on Design Loads @120°F (49°C). Insulation may be required at high temperatures. Note: Order hanger rods and nuts separately.



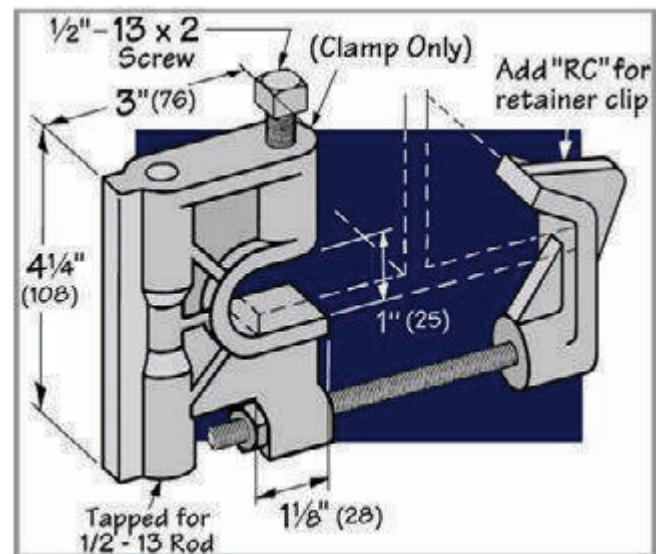
Support Brackets

Part #	Dimension in.	A mm	Design lbs.	Load N
SB1-06P	10	250	1400	6.22
SB1-09P	13	330	1000	4.45
SB1-12P	16	406	800	3.56
SB1-18P	22	559	675	3.00
SB1-24P	28	711	450	2.00
SB2-30P	34	863	750	3.33
SB2-36P	40	1016	750	3.33
SB2-24P	28	711	750	3.33



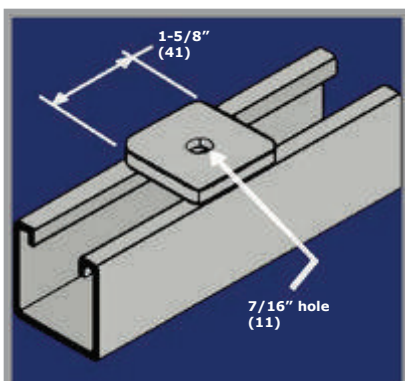
Beam Clamp

Part #	Description	Design lbs.	Load N
SBC	Beam Clamp	800	3.56
SBC-RC	Beam Clamp w/clip	800	3.56



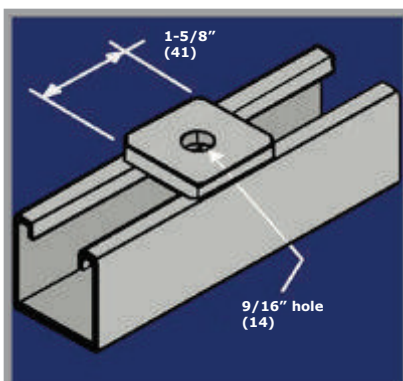


Fittings



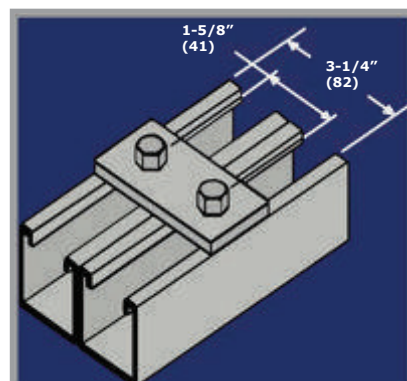
Catalog #SFP-1S7

FRP Polyester (1) 7/16" hole strut fitting.



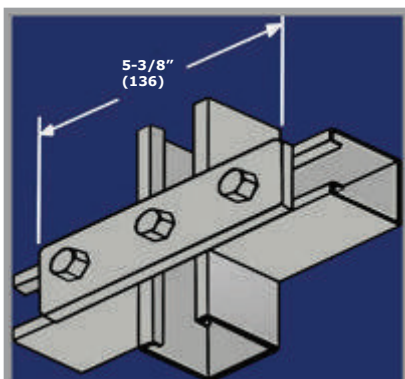
Catalog #SFP-1S9

FRP Polyester (1) 9/16" hole strut fitting.



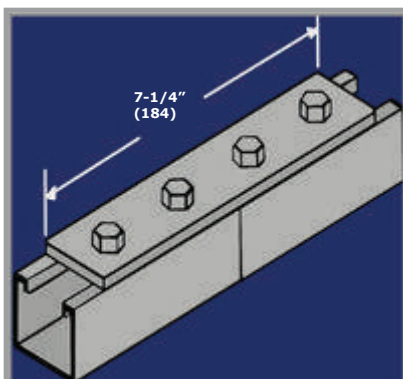
Catalog #SFP-2S

FRP Polyester (2) hole straight strut fitting.



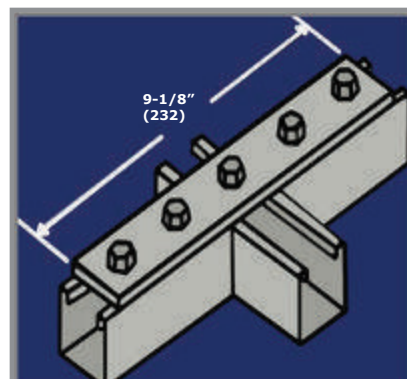
Catalog #SFP-3S

FRP Polyester (3) hole straight strut fitting.



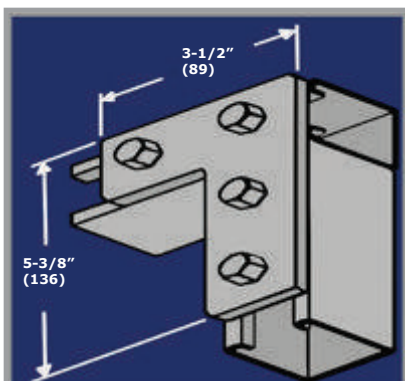
Catalog #SFP-4S

FRP Polyester (4) hole straight strut fitting.



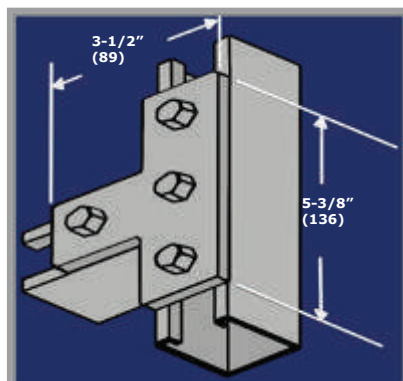
Catalog #SFP-5S

FRP Polyester (5) hole straight strut fitting.



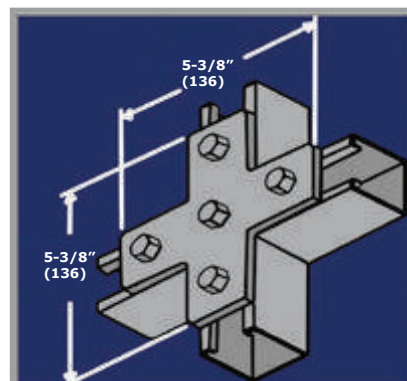
Catalog #SFP-4HL

FRP Polyester (4) hole horizontal 90 degree strut fitting.



Catalog #SFP-4HT

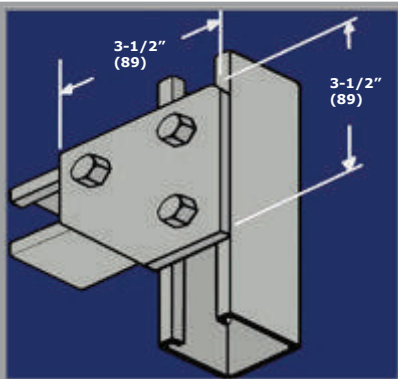
FRP Polyester (4) hole horizontal tee strut fitting.



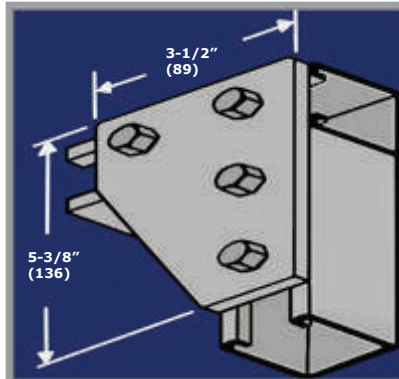
Catalog #SFP-5HX

FRP Polyester (5) hole horizontal cross strut fitting.

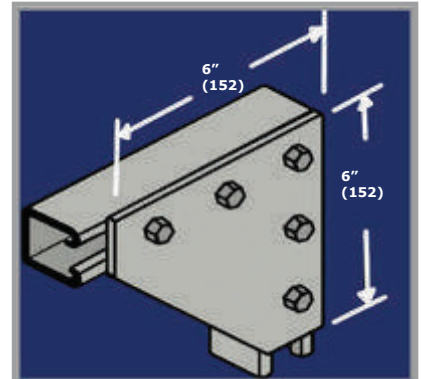
Fittings



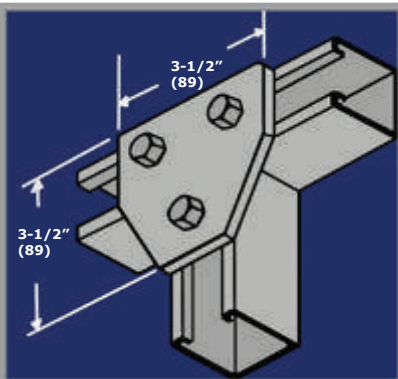
Catalog #SFP-3HCG
FRP Polyester (3) hole horizontal corner gusset strut fitting.



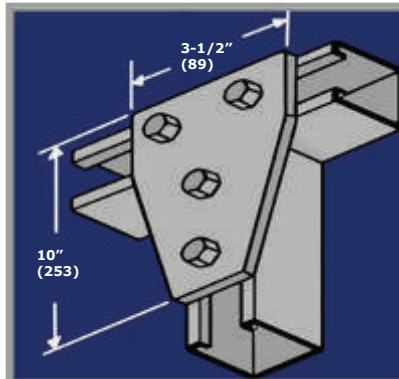
Catalog #SFP-4HCG
FRP Polyester (4) hole horizontal corner gusset strut fitting.



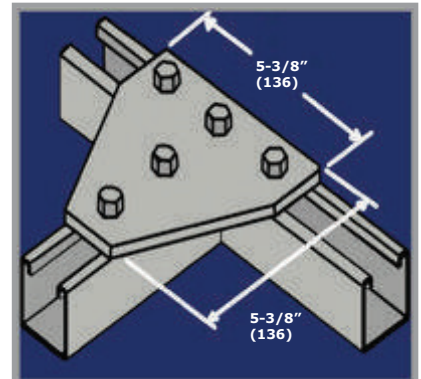
Catalog #SFP-5HCG
FRP Polyester (5) hole horizontal corner gusset strut fitting.



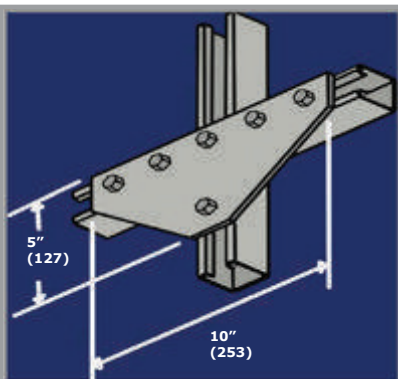
Catalog #SFP-3HTG
FRP Polyester (3) hole horizontal tee gusset strut fitting.



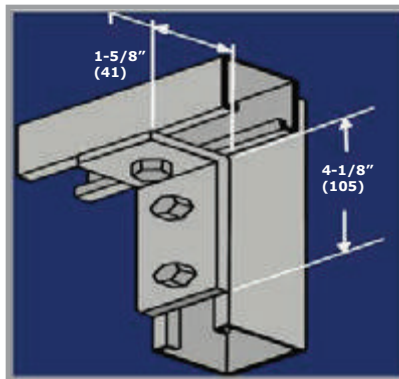
Catalog #SFP-4HTG
FRP Polyester (4) hole horizontal tee gusset strut fitting.



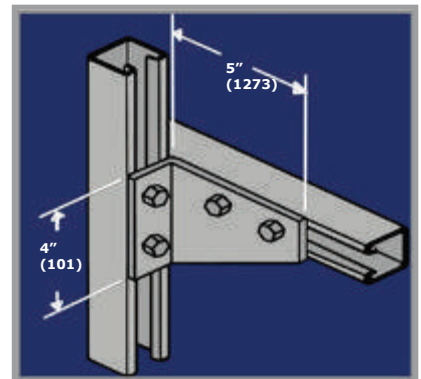
Catalog #SFP-5HTG
FRP Polyester (5) hole horizontal tee gusset strut fitting.



Catalog #SFP-6HTG
FRP Polyester (6) hole horizontal tee gusset strut fitting.



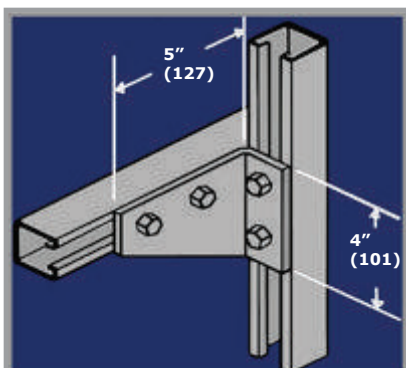
Catalog #SFP-3VL
FRP Polyester (3) hole vertical 90° strut fitting.



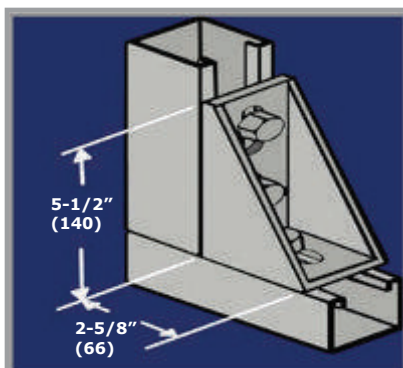
Catalog #SFP-4VGL
FRP Polyester (4) hole vertical 90° gusset left strut fitting.



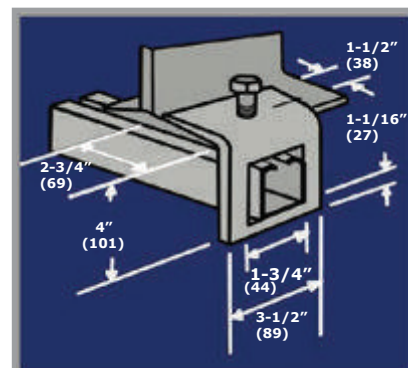
Fittings

**Catalog #SFP-4VGR**

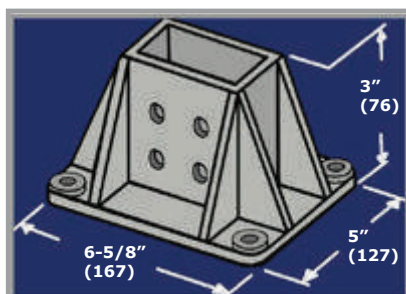
FRP Polyester (4) hole vertical 90° gusset right strut fitting.

**Catalog #SFP-3CB**

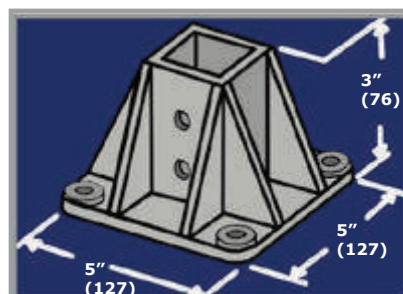
FRP Polyester (3) hole corner bracket strut fitting.

**Catalog #SWC-158**

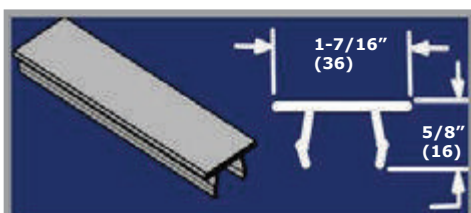
FRP Polyester 1-5/8" Window Clamp

**Catalog #SSV-DBASE**

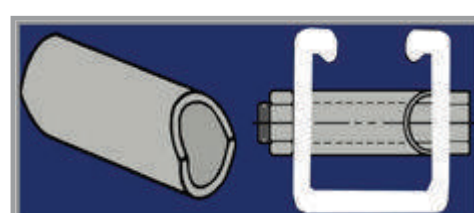
FRP Polyester Double Strut vertical support base.

**Catalog #SSV-SBASE**

FRP Polyester Single Strut vertical support base.

**Catalog #SSCS-158**

Closure Strip

**Catalog #SCSP-158**

Channel Spacer (for 3/8" rod).

Other fittings are available, please consult factory for details.



MP HUSKY
CABLE TRAY & CABLE BUS

SPECIFICATIONS





1.0 Specification for Aluminum and Steel Ladder

2.0 General

- 2.1 Cable tray systems shall be of the design of one manufacturer and shall be designed so that there are no burrs, projections, or sharp edges to damage cable insulation.
- 2.2 Fittings shall have the same load carrying capacity as straight sections. Fittings shall be of the continuous arc type with a 12, 24, 36, or 48 inch radius, unless otherwise shown on the drawings.
- 2.3 Ladder type tray straight sections shall be 10'-0", 12'-0", 20'-0", 24'-0", or 30'-0" long and shall be of the width indicated on the drawings to provide the planned cable capacity.

3.0 Material and Construction

- 3.1 **Aluminum Ladder** type cable tray longitudinal members shall be 4-1/2", 6", 7", 8", or 10" deep extruded aluminum channels or I-Beams of 6063-T6 aluminum alloy.
Steel Ladder type cable tray shall be 3-3/8", 4", 4-1/2", 6", or 7" deep channels mill galvanized (ASTM A-653 G90), hot dip galvanized after fabrication steel (ASTM A-123), 304 stainless steel, or 316 stainless steel.
- 3.2 **Aluminum Ladder** transverse members (rungs) shall be of extruded aluminum alloy 6063-T6 and shall be designed to prevent collection pockets for moisture of contaminant materials.
Steel Ladder transverse members (rungs) shall be designed to prevent collection pockets for moisture or containment materials.
- 3.3 **Husky Ladder (Flange-Out)**—Transverse members (rungs) shall be inserted into a slot punched in the longitudinal members conforming to the contour of the transverse member and heliarc welded on the out side of the longitudinal member. Transverse members shall be located on 9", 12" and 18" spacing.
Flanges on straights and fittings shall point outward.
Husky Ladder (Flange-In)—Transverse members (rungs) shall be joined to the longitudinal members by means of a minimum of two resistance welds or two high strength clinches or heliarc welded at each end of the transverse member. Transverse members shall be located on 6", 9", and 12" spacing. Flanges on straights and fittings shall point inward.

4.0 Splice Joints

- 4.1 Resistance across any splice connection shall not exceed 330 microhms.
- 4.2 Splice connector design shall be universal for use on straight sections and fittings.
- 4.3 Splice connectors shall be of the high pressure bolted type with a minimum of four bolts per connector.

5.0 Loading

- 5.1 Husky Ladder type cable tray shall have a load safety factor of 1.5 based on the destruction load capacity as defined within NEMA Standard VE1.
- 5.2 The Husky Ladder type cable tray shall meet or exceed the following NEMA load classification:

8A (50lbs. per ft./8ft. Span)	16A (50lbs. per ft./16ft. Span)
8B (75lbs. per ft./8ft. Span)	16B (75lbs. per ft./16ft. Span)
8C (100lbs. per ft./8ft. Span)	16C (100lbs. per ft./16ft. Span)
12A (50lbs. per ft./12ft. Span)	20A (50lbs. per ft./20ft. Span)
12B (75lbs. per ft./12ft. Span)	20B (75lbs. per ft./20ft. Span)
12C (100lbs. per ft./12ft. Span)	20C (100lbs. per ft./20ft. Span)

6.0 UL

- 6.1 The cable tray system shall be classified for use as an equipment ground and requires that the minimum cross sectional area be shown on the tray labels. The industry standard is to mark each straight section and fitting with its own cross sectional area. It is the responsibility of the installer and or user to assure that the capacity of the overall system is adequate to meet the anticipated ground fault of the system.

7.0 Manufacture and Data

- 7.1 The following data shall be provided with the quotation:
(a) Simple beam load and deflection tables (b) Drawings illustrating tray quoted and splice connection
- 7.2 Tray shall be manufactured in accordance with and by a member of NEMA VE1.

1.0 Specification for Aluminum and Steel Trough

2.0 General

- 2.1 Cable tray systems shall be of the design of one manufacturer and shall be designed so that there are no burrs, projections, or sharp edges to damage cable insulation.
- 2.2 Fittings shall have the same load carrying capacity as straight sections. Fittings shall be of the continuous arc type with a 12, 24, 36, or 48 inch radius, unless otherwise shown on the drawings.
- 2.3 Husky Trough type tray straight sections shall be 10'-0", 12'-0", 20'-0", 24'-0", or 30'-0" long and shall be of the width indicated on the drawings to provide the planned cable capacity.

3.0 Material and Construction

- 3.1 **Aluminum Trough** type cable tray longitudinal members shall be 4-1/2", 6", 7", 8", or 10" deep extruded aluminum channels or I-Beams of 6063-T6 aluminum alloy.
Steel Trough type cable tray longitudinal members shall be 3-3/8", 4", 4-1/2", 6", or 7" and shall be steel mill galvanized (ASTM A-653 G90), or hot dip galvanized after fabrication steel (ASTM A-123).
- 3.2 **Aluminum Trough** bottom shall be of corrugated sheet type construction. Corrugation shall be approximately 3/8" deep on 1-1/2" pitch to provide a minimum cable support surface of 5.5" per linear foot of tray length. The corrugated bottom shall be attached to the bottom flange of the channel or I-Beam shaped longitudinal member by means of resistance welding or high strength clinches at a minimum of 3" intervals. Note: For ventilated trays over 24" wide, use ladder type construction (Ventray) with 4" spacing.
- 3.3 **Husky Trough w/ Solid Bottom**—The solid bottom trough style tray shall be constructed of continuous solid corrugation. Flanges on straights and fittings shall point inward.
Husky Trough w/ Ventilated Bottom—The ventilated bottom trough style tray shall be constructed of continuous ventilated corrugation. The corrugation shall have a minimum of 40% open area to provide adequate ventilation for cables. For ventilated trays over 24" wide, use ladder type construction (Ventray) with 4" rung spacing. Flanges on straights and fittings shall point inward.

4.0 Splice Joints

- 4.1 Resistance across any splice connection shall not exceed 330 microhms.
- 4.2 Splice connector design shall be universal for use on straight sections and fittings.
- 4.3 Splice connectors shall be of the high pressure bolted type with a minimum of four bolts per connector.

5.0 Loading

- 5.1 Husky Trough type cable tray shall have a load safety factor of 1.5 based on the destruction load capacity as defined within NEMA Standard VE1.
- 5.2 The Husky Trough type cable tray shall meet or exceed the following NEMA load classification:

8A (50lbs. per ft./8ft. Span)	16A (50lbs. per ft./16ft. Span)
8B (75lbs. per ft./8ft. Span)	16B (75lbs. per ft./16ft. Span)
8C (100lbs. per ft./8ft. Span)	16C (100lbs. per ft./16ft. Span)
12A (50lbs. per ft./12ft. Span)	20A (50lbs. per ft./20ft. Span)
12B (75lbs. per ft./12ft. Span)	20B (75lbs. per ft./20ft. Span)
12C (100lbs. per ft./12ft. Span)	20C (100lbs. per ft./20ft. Span)

6.0 UL

- 6.1 The cable tray system shall be classified for use as an equipment ground and requires that the minimum cross sectional area be shown on the tray labels. The industry standard is to mark each straight section and fitting with its own cross sectional area. It is the responsibility of the installer and or user to assure that the capacity of the overall system is adequate to meet the anticipated ground fault of the system.

7.0 Manufacture and Data

- 7.1 The following data shall be provided with the quotation:
(a) Simple beam load and deflection tables (b) Drawings illustrating tray quoted and splice connection
- 7.2 Tray shall be manufactured in accordance with and by a member of NEMA VE1.

**1.0 Specification for Husky Techtray / Wire Mesh Cable Support System**

2.0 Manufacturer: MPHusky

3.0 Product Description: Husky Techtray is a wire mesh cable tray system that utilizes high mechanical strength steel wire that is welded into a grid system. This grid system is then formed into channel trays which support and carry cables. The wire mesh will consist of a 2" x 2" grid system, and will utilize wires that have a minimum diameter of .16" (4mm).

4.0 Material: Standard tray finish shall be mill galvanized. Other finish options include Electroplated Clear Zinc, Hot Dipped Galvanized after fabrication, Painted or Stainless Steel.

5.0 Safety Edge: Wire mesh system shall have continuous top edge wire that is T-Welded on top of support wires to avoid sharp edges that may damage cable or installer.

6.0 Fittings: Shall be fabricated in the field by cutting wires with a cutting device. Cuts shall be made in a manner reducing sharp edges and projections so they do not harm cables or installation personnel. Manufacturer shall offer corner connectors that provide a radius on the inside corner of bends for horizontal 90 degree bends, tees, and crosses.

7.0 Straight sections shall be provided in 10' (3m) lengths.

8.0 Wire mesh shall be welded at all intersections.

9.0 Mesh system will permit continuous ventilation of cables and maximum disposition of heat. Tray shall be manufactured by a member of NEMA in accordance with NEMA VE-1 and shall be installed in accordance with NEMA VE-2

1.0 Specifications for Husky Fiberglass Cable Tray

2.0 Cable Tray Design

- 2.1 Cable Tray System shall be made of straight sections, fitting and accessories as defined in the latest NEMA FG-1.
- 2.2 Straight section structural elements: side rails, rungs and splice plates shall be pultruded from glass fiber reinforced polyester or vinylester resin.
- 2.3 Pultruded shapes shall be constructed with a surface veil to insure a resin-rich surface and ultraviolet light resistance.
- 2.4 Pultruded shapes shall meet ASTM E-84, Class 1 flame rating and self-extinguishing requirements of ASTM D-635.

3.0 Construction

- 3.1 Straight section lengths will be 120 inches (10ft.) or 240 inches (20ft.) standard.
- 3.2 Side rails will be inward "C" configuration and be pre-drilled to accept splice plates.
- 3.3 Loading depths for cable tray systems shall be 5", 3" or 2" as per NEMA FG-1 tolerances. Overall heights shall be 6", 4" and 3" respectively.
- 3.4 Loading classifications and test specimens shall be per NEMA FG-1.

4.0 Fitting

- 4.1 Molded fittings shall be formed with a minimum 3" tangent following the radius.
- 4.2 3" or 5" loading depth systems shall have 90° and 45° molded fittings in 12" or 24" radius.
- 4.3 All fittings not included in 3.5.2 should be of mitered construction.
- 4.4 Width—usable inside tray width shall be 6"-9"-12"-18"-24"-30"-36". Outside widths shall not exceed inside by more than 2".
- 4.5 Straight and expansion splice plates will be of stainless steel or fiberglass design with an eight bolt pattern in 5" fill systems and four bolt pattern in 3" and 2" fill systems.
- 4.6 Dimension tolerances will be per NEMA FG-1.
- 4.7 Cable tray must have integral connection between side rails and rungs consisting of non-metallic mechanical fasteners and adhesive bonding.

5.0 Manufacture

- 5.1 All manufacturing practices will be in accordance with NEMA FG-1.

**1.0 Specifications for Husky Centray Center Rail Cable Tray****2.0 Material**

The tray shall be manufactured from 6063-T6 high strength aluminum. The spine shall be a minimum of 3" high and 1-1/2" wide. The top and bottom portions of the spine shall have a 0.145" minimum thickness and the vertical web portions of the spine shall have a minimum thickness of 0.098". The rung shall be a minimum of 0.50" wide by 0.50" high. The rung shall be a minimum of 0.060" thick. The ends of the rungs shall be rounded to prevent damage to cables and injury to personnel.

3.0 Construction

The spine shall be punched so as to minimize distortion from punching of rung holes for insertion of rungs. The rungs shall be inserted through the holes in the spine and fastened by high pressure staking in four locations to assure that the rungs are secure and prevent loose rungs. The splice connector shall also be usable as a hanger with a 1/2" diameter hanger rod. The splice connector shall use two bolts per connection that pass through the spine in the horizontal direction.

4.0 Wall Mount Trays

Wall mount trays shall be constructed in the same manner as above, except rungs shall protrude 1/2" from the spine on the back side. Wall mount tray shall be mounted to the wall in three locations per 10' or 12' straight section. The tray shall be mounted using 3/4" spacers supplied with the section for rung clearance and to compensate for irregularities in the walls.

5.0 Loading

Top mount trays shall meet NEMA 12C (100lbs/ft.—12ft. span) loading requirements. Top mount trays shall meet CSA Class D (179kg/m—3m span) loading requirements. Bottom mount trays shall meet NEMA 12B (75lbs./ft.—12ft. span) loading requirements. Bottom mount trays shall meet CSA Class C (97kg/m—3m span) loading requirements.

6.0 Widths

All widths are measured to the inside of the rungs, except for bottom rung mount 6", 9", and 12" wide trays. These widths include an additional 1-1/2" for the spine width. (Example: a 6" wide bottom mount width is 7-1/2").

7.0 Manufacturer

Tray shall be manufactured by a member of NEMA and tray shall be manufactured in accordance with the latest NEMA or CSA requirements.

1.0 Specifications for Husky Way Tray**2.0 General**

- 2.1 Cable tray systems shall be of the design of one manufacturer and shall be designed so that there are no burrs, projections, or sharp edges to damage cable insulation.
- 2.2 Fittings shall have the same load carrying capacity as straight sections. Fittings shall be of the continuous arc type with a 12, 24 or 36 inch radius unless otherwise shown on the drawings.
- 2.3 Trough type tray straight sections shall be 10' or 12' long and shall be of the width indicated on the drawings to provide the planned cable capacity.

3.0 Material and Construction

- 3.1 Trough type cable tray sides shall be 3-3/8", 4", or 6" deep.
- 3.2 Tray shall be Aluminum, Galvannealed, Steel Mill-Galvanized (ASTM A-653), or 304 or 316 stainless steel.
- 3.3 Trough bottom shall be of solid flat sheet type construction. Flanges on straights and fittings shall point inward.

4.0 Splice Joints

- 4.1 Resistance across any splice connection shall not exceed 330 microhms.
- 4.2 Splice connector design shall be universal for use on straight sections and fittings.
- 4.3 Splice connectors shall be of the high pressure bolted type with a minimum of four bolts per connector.

5.0 Manufacture

- 5.1 Tray shall be manufactured by a member of NEMA in accordance with NEMA VE-1 and shall be installed in accordance with NEMA VE-2



1.0 General

- 1.1 A complete metal enclosed bus system shall be provided; including all necessary fittings, tap boxes, enclosure, connectors, entrance fittings, insulated conductors, electrical connectors, terminating kits, and other accessories as required.
- 1.2 The bus system shall be suitable for indoor or outdoor use with conductor spacing and ventilation maintained throughout the system.
- 1.3 All elements of the bus enclosure shall be so designed as to eliminate any sharp edges or projections that may injure personnel or conductor insulations.
- 1.4 The bus system shall be CABL-BUS, as manufactured by MPHusky.

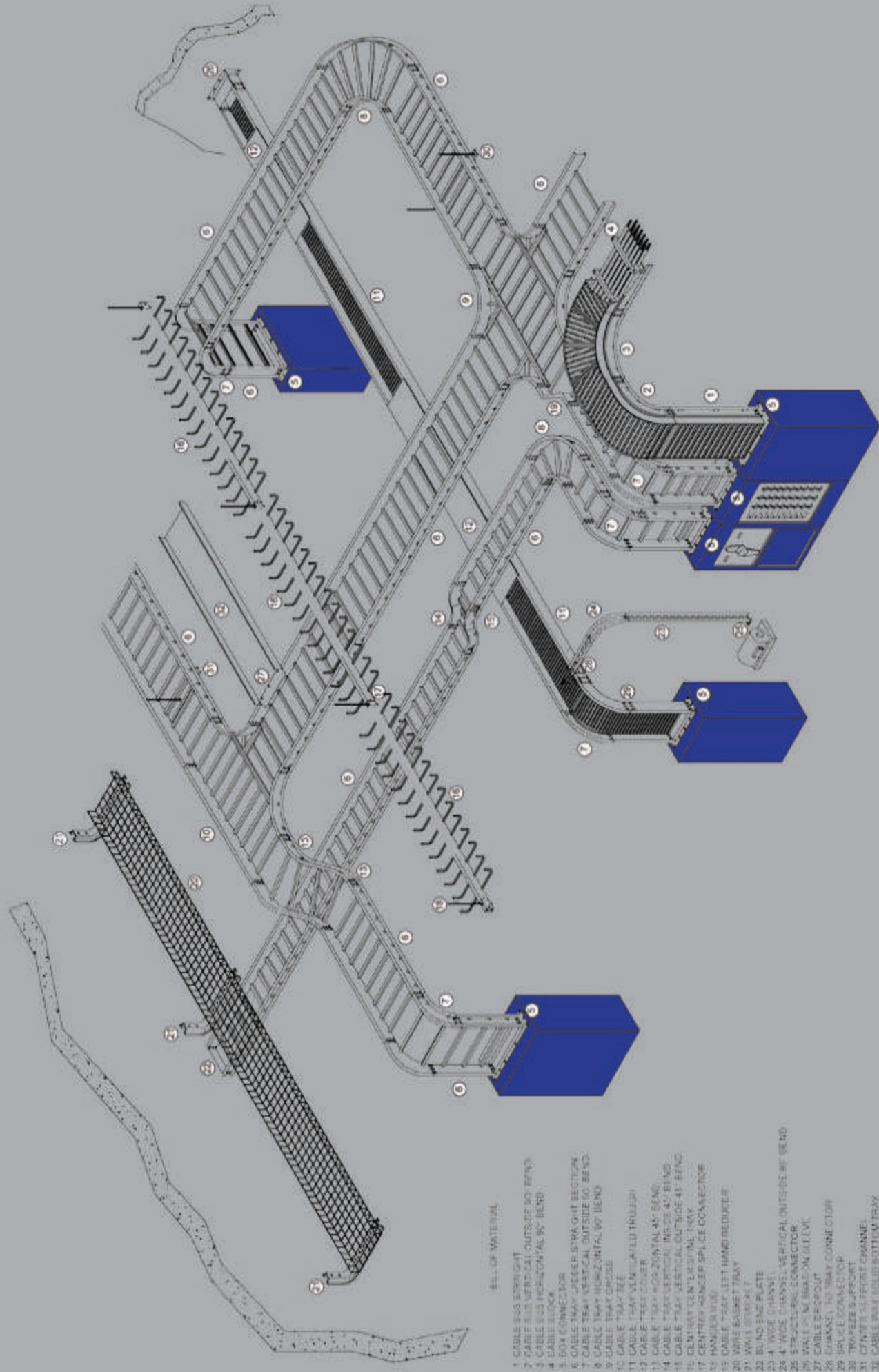
2.0 Construction

- 2.1 All load carrying members of the bus system shall be fabricated from extrusions of aluminum alloy 6063-T6. The maximum allowable stress used in designed shall be 10,000 PSI.
- 2.2 Bus enclosure fittings shall normally have a radius of 24 inches, however we offer fittings with other bending radii as required.
- 2.3 The top and bottom enclosure sections shall be corrugated to provide mechanical strength and slotted for ventilation. The top cover shall be fastened to the enclosure with self tapping screws spaced approximately 2 feet on centers and shall be removed for inspection. The bottom section shall be factory installed by welding.
- 2.4 Splice joints between sections of the bus enclosure shall be the high pressure splined bolted type design which avoids any structural weakness at the connection and does not exceed the electrical resistance specified under Section 3.4 of this specification.
- 2.5 Conductor support blocks shall be designed in segments to maintain a minimum of one conductor diameter in both the horizontal and vertical planes, as required for free air conductor rating. Horizontal runs will have blocks spaced every 36" and vertical runs every 18".

3.0 Electrical

- 3.1 All current carrying conductors shall have insulation rated for 90°C operating temperature in accordance with ICEA publication #P-46-426 and interim STD #1 to ICEA publication #S-66-524 for the ampacity and voltage specified.
- 3.2 The conductors shall be phased and supported to maintain low impedance and assure the mechanical strength necessary to prevent cable movement or damage under short circuit currents up to 100,000 RMS symmetrical amps.
- 3.3 Conductors shall be of continuous length and be pulled in after the bus enclosure is in place. Electrical connectors shall be used only at the termination of conductor runs or, if necessary, at tap points. All electrical connectors shall be provided by MPHusky.
- 3.4 The bus enclosure shall have a continuous current rating of not less than 1,000 amperes (50°C Rise) and the resistance across the enclosure section splice shall not exceed 50 microhms.
- 3.5 The bus enclosure shall be grounded at sufficient intervals for the purpose of preventing a potential above ground on the bus enclosure in the event of a fault.
- 3.6 The conductors shall be arranged in a phasing pattern which exhibits minimal inter-phase and intra-phase imbalance.
- 3.7 Conductor temperature rise calculations and current balance calculations can be provided in support of Section 3.6 of this specification.
- 3.8 All transposing of cables must occur at termination points. Transposing of cables will not be done in the bus housing.

SAMPLE SYSTEM LAYOUT





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