I-BEAM CONTENTS

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INTRODUCTION

Decade after decade, for over 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.

MPHusky-Engineered to Support Powerful Reputations.



DESCRIPTION & 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, Wire Basket, EMI, Pan, and Channel. For a more comprehensive description of the construction and utilization of these types of tray, see the appropriate catalogs and brochures for the products.

Husky Ladder

Ladder consists of two longitudinal side members connected by individual transverse 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

Husky Trough can be ventilated or non-ventilated. Ventilated trough has a slotted corrugated, perforated bottom or 4" rung spacing. Solid bottom trough has a corrugated, 06C corrugated or F04 flat sheet bottom.

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DESCRIPTION & SELECTION

Husky Wire Basket

Wire basket is a wire mesh cable tray system that utilizes high mechanical strength steel wire that is welded into a 2" x 4" grid system. Wire basket is typically used to carry data communication and fiber optic cables, with a huge 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 for your cables (cover sold separately).

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. Channel is often used to make drops from the primary cable tray to equipment below such as motors, etc. Ventilated channel has slots for cable ties.





Husky EMI Tray

Electromagnetic Interference protection enclosures are completely contained and used to protect sensitive cables from interference caused by electrostatic and electromagnetic fields as well as plane wave radiation and cross talk.

LOADING

Cable tray is used in a wide variety of applications and under widely varying conditions, it is important to 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 the desired loading capacity per foot and support span. The weight of the cable and at what span it will be supported need to be known also.

2. Material

MP Husky cable tray is available in aluminum, stainless steel, hot dip galvanized after fabrication steel, pregalvanized steel, galvannealed steel, and fiberglass.

3. Tray Depth

The depths of tray available range from 2" to 10".

4. Tray Width

The standard widths available are 6", 9", 12", 18", 24", 30", and 36" (many other widths available in wire basket tray).

5. Tray Type

The seven types of tray available are: Ladder (Flange-In, Flange-Out, and I-Beam), Trough (Flange-In and I-Beam), Channel, Fiberglass, Pan Tray, EMI, and Wire Basket. Ladder tray is available with either 6", 9", 12", or 18" rung spacing; both Channel and Trough are available with either solid (non-ventilated bottom) or ventilated bottom.

6. Radius of Fittings

The standard radii for fittings are 12", 18", 24", 36", or 48" and are designed in the style and material to match any tray 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 also additional load factors for wind, snow, ice, etc. For more information on loading, see page 6 in this section.

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LOADING

MP Husky manufactures Cable Tray in accordance with NEMA Standards NEMA VE-1 and CSA C22.2 No. 126.1

NEMA Load Classification							
NEMA Class	Support Span ft (m)	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)					
16C	16 (4.9)	100 (149)					
20AA	20 (6.0)	25 (37)					
20A	20 (6.0)	50 (74)					
20B	20 (6.0)	75 (112)					
20 C	20 (6.0)	100 (149)					

CSA Load Classification					
Maximum Design Load For Maximum Associated Support Spacing					
Class	Support Span (ft)				
Α	25	10			
С	65	10			
D	45/120	20/10			
Ε	75/200	20/10			



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





CSA Load Classification Maximum Design Load For Maximum **Associated Support Spacing** Support Span Load Class (kg/m)(m) 37 3 А С 3 97 D 67/179 6/3 E 6/3 112/298

OUR QUALITY POLICY

MP Husky is 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. We will achieve this individually and corporately through tested and proven processes and controls, in our Quality Systems, with a constant focus and effort on continuous improvement.

Item	Standards
MP Husky Quality Program	 ANSI / ASQC Q9001-2000 (ISO 9001 Compliant) ASME NQA-1-2008 - 2009A ANSI N45.2
Manufacturing Standards	 National Electric Code National Electrical Manufacturers Association VE-1 Canadian Standards Association American Welding Society American Society for Testing and Materials
Certification	CSA CertifiedUL Classified for use as an equipment ground conductor
Load Test Standards	NEMA VE-1/CSA Tray Standards
Cable Tray Manufacturing Standard	• NEMA VE-1/CSA Tray Standards
Cable Tray Installation Standard	NEMA VE-2 Cable Tray Installation Guidelines
Grounding	 NEMA UL CSA NEC
Welding	 AWS D1.1 (American Welding Society Structural Welding Code: Steel) AWS D1.2 (American Welding Society Structural Welding Code: Aluminum) AWS D1.3 (American Welding Society Sheet Less than 3/16" Welding Code: Steel) 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 AWS Certified Welders
Nuclear	ASME NQA-1 QUALITY ASSURANCE PROGRAM NUPIC

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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 Processing 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.



Nuclear Clients & Partners

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- 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 10 CFR50 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 10 CFR50 Appendix B

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 that can 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, imparts strength to the metal. These alloys have been classified into seven categories according to their chemical composition, and have been given numerical designations (1000 through 7000) by the Aluminum Association for each series of alloy. In addition to alloying the pure aluminum, further strengthening is possible by heat treating or cold working (non-heat-treatable alloys).

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 individually, or in various combinations, show increasing solid solubility in aluminum with increasing temperature, it is possible to subject them to thermal treatments which will yield 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, individually 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 sizeable amounts of magnesium, when supplied in strain-hardened tempers, are regularly given a final elevated temperature "stabilizing" to ensure 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 advantages 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, which makes the alloys 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 that meets the requirements of the majority of installations and is economical. 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 VE-1 and CSA Standard C22.2 No. 126.1.

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MATERIALS & CONSTRUCTION

Steel

Steel cable trays are used principally in environments that are relatively free from corrosive attack. The most widely used corrosion resistant finish for steel trays is hot dip galvanized after fabrication. The main advantages of using steel in cable tray fabrication is its high strength and low cost. Its disadvantages include increased structural weight, poor corrosion resistance, and low electrical conductivity.

The idea that all steels are the same, except for its chemical disposition is false. Carbon steels may be produced with chemical compositions (carbon, manganese, phosphorus, sulfur, 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-rolled or cold-rolled steel strips of commercial quality. Steels in this category are ASTM A1011 CS Type B (formerly ASTM A569) and ASTM A1008 CS Type B (formerly A366). Pre-galvanized steel and Galvannealed steel conform to ASTM A653 (formerly ASTM A525).

Stainless Steel

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

Stainless steel contains at least ten 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 that 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 the 316 series. This austenitic alloy is remarkable in several aspects. Unlike the other two classes, 316 contains 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.

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 system for your specific application.

MATERIALS & CONSTRUCTION

Typical Applications include:

Type 304

- Beer barrels
- · Chemical equipment
- Coal hopper linings
- Cooling coils
- · Cryogenic vessels and components
- Dairy equipment
- Evaporators
- · Food handling equipment
- Milking machines
- · Nuclear vessels and components
- Oil well filter screens
- Pressure vessels
- · Sanitary fittings and valves
- · Shipping drums
- Still tubes
- Textile dyeing equipment
- Hypodermic needles
- Feedwater tubing

Type 316

- · Chemical processing equipment
- · Chemical storage and transportation tanks
- · Food processing equipment
- Steam cooking kettles
- · Oil refining equipment
- Paper pulp digesters and evaporators
- Petroleum refining equipment
- · Pharmaceutical processing equipment
- Scrubbers for environmental control
- Soap and photographic handling equipment
- · General applications in textile industry

Fiberglass

MP Husky's Fiberglass Cable Tray systems are manufactured from glass fiber-reinforced plastic shapes and provide 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 Tray will not rust, nor does it ever require painting. It is available in both polyester and vinyl ester 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 (vinyl ester resin) but is available in custom colors upon request.

For more than 40 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's Fiberglass Cable Tray is the perfect choice for harsh environments.

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CORROSION RESISTANCE

The underlying causes of corrosion are the same for all metals, all stemming from electrochemical phenomena. But the ways which the 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 gray 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, intercrystalline 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 rain water 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—Accelerated corrosion of a metal 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.

For any pair of contacting metals in the following Galvanic Potential list, the one listed higher is anodic and will corrode when in the presence of saline water or atmosphere. In addition to the nature of the two metals, the extent of galvanic attack depends upon many other factors that include:

- Concentration of the electrolyte, which determines its electrical resistance
- 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 Galvanic Potential list is a compilation of solution potentials of metals and alloys with respect to a calomel electrode. This list provides an initial guide to the possible effects of bimetallic contact.

The corrosive nature of sea water and 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 and sulphurous and sulfuric acids, which are largely formed as a result of burning coal, that dissolve in the moisture in the air or rain as it falls, or in films of condensed water on the metal.

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 include:

- 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 have some form of coating.
- 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.

CORROSION RESISTANCE

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 Stainless Steel (passive)
- Type 316 Stainless Steel (passive)
- Hastelloy C
- Silver
- Graphite
- Gold
- Platinum

Protected End (Cathodic or Most Noble)

Aluminum Alloys

The corrosion resistance of aluminum alloys is due to the surface presence of a very thin protective film of aluminum oxide that has strong self healing properties when damaged. The oxide film begins to form on the surface of the bare metal immediately after exposure to air. The film grows rapidly for several days, then slowly until 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 that may come in contact with aluminum can be divided into three groups:

Substances that attack the oxide film These include the majority of strong alkalis, mercurical compounds, and most strong acids.

Substances that cause localized breakdown of the oxide film (pitting) 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 that do not attack the oxide film

The majority of substances fall in this group, including many industrial chemicals.

The majority of aluminum installations provide 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 that 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 adequate 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 contact with water or installations that are maintained in dry conditions will not corrode.

CORROSION RESISTANCE

Steel with Zinc Coatings

In order to determine the performance of different types of zinc coatings in a corrosive environment, data from various atmospheric tests is collected and reviewed by 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. 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.

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 or 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, leading to the more rapid attack experienced in these atmospheres.

Indoor atmospheres Variations in humidity and temperature indoors are somewhat less extreme and there is no rainfall indoors to dissolve and remove soluble corrosion products. The general assumption is that zinc coating of the same thickness has five times greater protective life when placed indoors rather than outdoors 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 have an acceptable service life expectancy regardless of how the end point of failure is defined. It should be noted that whenever maintenance, such as painting, is neglected, it is unreasonable to expect galvanized steel to last indefinitely.

Finishes

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 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.

• Galvannealed

ASTM Designation ASTM A653 CS Type B Standard Specification for Steel Sheet, Zinc Iron Alloy Coated (Galvannealed) by the Hot-Dip Process—This process applies a zinc coating to sheet steel prior to fabrication of the product by passing the metal downward through a molten ammonium chloride flux bath, and then into the zinc and out again by means of rolls. After galvanizing the material is further annealed to a gray dull matte finish that has excellent paint adhesion properties.

The MP Husky standard Galvannealed coating designation is A60.

Hot Dipped Galvanizing After Forming

ASTM Designation A123 Specification for Zinc Coating (Hot Dip) on Assembed 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

CORROSION RESISTANCE

nature and thickness of the coating depends 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 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.

• Zinc-Plated

ASTM Designation B633—Standard Specification for Electro-deposited Coatings of Zinc on Iron and Steel. Wire basket and many accessory and hardware items are Zinc-Plated for protection against corrosion.

• Epoxy Coated

Trays can be epoxy coated to provide protection against corrosive elements and chemicals. Epoxy is often used in combination with hot dip galvanizing to provide a two part protection against harsh environments.

• Powder Coated

Trays are powder coated for corrosion protection as well as just for appearance reasons. Trays can be powder coated in a variety of colors.

• Anodized

Aluminum trays are often anodized to provide corrosion protection. This process is often used on aluminum tray when used near salt water. Anodizing can also be used to provide a unique color appearance. However when an aluminum tray is anodized the electrical conductivity is reduced.

DESIGN 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/she can design a system that 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** 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** are caused by the motion of the live load or the movement of the structure.

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

• **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 affect on the overall loadings. The following information will provide a general guide.

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

Values used in determining conductor loadings under these conditions for ice, wind, and temperature are given in *Table 1 (Degrees of Loading Due to Weather)*.

Table 1

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

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. Such modifications are as listed below:

- a. **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.
- b. **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 5 lbs per square foot should be used for outdoor installations where snow is a factor.

DESIGN LOADING

Table 3

c. 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 will 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, shall be loaded with a wind pressure normal to the surface having an intensity given by the formula:

Wp = C Vp

- **Wp** = 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)*
- Vp = Impact Pressure = 0.00256V² (Where V = The design velocity). Values of Vp may be obtained from *Table 3 (Impact Pressures)*

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.

	Impact Pressures						
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.

Wind Direction & 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.

- d. **Traction Forces**—These 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 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.
- e. 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

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DESIGN LOADING & DEFLECTION

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.

Dynamic Loads

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

- **Impact loads**—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 a tray. These loads are provided for in the same manor as traction forces. The safety factors selected for the basic design stresses should be conservative enough to provide for these forces if they occur.
- **Inertia loads**—Are caused when the structure itself is in motion, such as may occur during an earthquake. An earthquake is considered to give 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.

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 are located on pages 33 through 57.

The design loadings are to be used for designing standard supports, which necessitates assuming design loadings for the cable trays to be supported.

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 heattreated aluminum alloys, or high strength steels with long spans, any limitation on deflection that 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 ensured.

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 plants. 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, the options 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 simple beam deflection.
- **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 x 10⁶ psi, and that of aluminum alloys is only 10 x 10⁶ psi, greater deformation of aluminum alloy trays is to be expected at any given stress level. Under its own weight, an aluminum beam will defect the same amount as an identical steel beam, since not only

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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, as 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 cannot and should not be applied to aluminum alloys, as 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, defines the depths of beams and girders in floors to be not less that 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 that 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 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 4 (Constants for Beam Deflections).

TECHNICAL INFORMATION

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Table 4

Constants for Beam Deflections											
		2 Span	3 S _]	pan	4 Span		5 Span				
r	Free Beam	Span 1 Span 2	Span 1 Span 3	Span 2	-	Span 2 Span 3	Span 1 Span 5		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.



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. For maximum deflection of the fifth span see above.

ELECTRICAL EQUIPMENT & GROUNDING

A cable tray system must provide protection to life and property against faults caused by electrical disturbances, lightning, failures that 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, 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 EQUIPMENT & 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 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, causing a fuse or circuit breaker to open.

Equipment Grounding

Equipment grounding means the connection to earth of all exposed, noncurrent-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. Therefore grounding 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, under-ground 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. Based on this, Power cables may have short circuit capacity from 5,000 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 5 (Division of Fault Currents)*, 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 of the support system to 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							
	Steel	Armored (Cable	Aluminu	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	

Table 5

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TRAY SIZING

Sizing Trays for Multiple Conductor Cables

NEC Section 392.22 lists the requirements for installing multiple conductor cables in ladder, ventilated trough, solid bottom trough, solid channel, 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. NEC Table 392.22(A), Column 1 is used for cables less than 4/0. These cables do not have to be placed side by side. NEC Table 392.22(A), 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 percent 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 percent of the cable tray width. NEC Table 392.22(A), Column 3 is used for cables smaller than 4/0. NEC Table 392.22(A), 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 percent of the cross-sectional area of the tray.

For ventilated channel-type trays, the total cross-sectional areas of all cables must not exceed 1.3 square inches for 3" wide trays, 2.5 square inches for 4" wide trays, or 3.8 square inches for 6" wide trays.

For solid bottom channel, the total cross-sectional area must not exceed 1.1 square inches for 3" wide, 2.1 square inches for 4" wide and 3.2 square inches for 6" 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. NEC Table 392.22(B)(1), Column 1 is used for cables 250kcmil through 900kcmil. NEC Tables 392.22(B)(1), Column 2 is used for a combination of cables rated 1000MCM and larger, and smaller than 1000MCM. For ventilated channel trays, the total diameter of all cables must not exceed the inside width of 3", 4", or 6" wide trays.

Problem: Multiple Conductor Cables

What size ladder-type cable tray is required for 9 multi-conductor cables smaller than 4/0 and 4 multi-conductor cables larger than 4/0? The total diameter (in inches) for the 4/0 and larger cables is 12.6" and the total area for the cables rated less than 4/0 is 22 sq. in.

Cable tray width must be selected from NEC Table 392.22(A) and be based on the calculation in column 2.



Note: Square inch area of cables obtained from manufacturer.Step 1:NEC 392.22(A)(1)(c)Sq. in. of cables, smaller than 4/0 = 22 sq. in.Diameter of cables larger than 4/0 = 12.6"Step 2:NEC Table 392.22(A) Column 222 sq. in. + (12.6 x 1.2) = 37.12 sq. in.A 36" wide tray has 42 sq. in. areaAnswer:The inside width of the cable tray must be equal to 36"

Problem: Single Conductor Cables

What size tray is required for (10) No. 250 MCM RHH RHW copper conductors and (12) No. 750 MCM RHH RHW copper conductors laid in a ladder tray?

Cable Tray must be selected from NEC Table 392.22(B)(1) and be based on square inch area shown in Column 1.



Cables may be placed on top of each other

Step 1: 250 MCM = 0.554 sq. in. 750 MCM = 1.286 sq. in.

- Step 2: NEC 392.22(B)(1)(b)
- $.554 \times 10 = 5.54 \text{ sq. in.} + 1.286 \times 12 = 15.43 \text{ sq. in.}$ = 20.97 sq. in.
- Step 3: NEC Table 392.22(B) 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 & CALCULATIONS

Calculate the load for a span shorter than the one shown in the load table.

Formula: Take the load shown on a known span, multiply by the known span squared and divide it by the desired shorter span squared. See sample load table below. Calculate the load for a 10' span.

	A()IJC5-(W)-144()								
NEMA Class	CSA Class	Support Span	SWL* lbs/ft (kg/m)	Deflection in (mm)	Part No.	UL EGC (amps)	LD (in)	FL (in)	Fitting Prefix
12C		12ft 10ft	122 (182) 176 (262)	1.15 (29.2) 0.80 (20.3)	A(RS)IJC5-(W)-(L)	1200	3.9	2.0	ALIJC5
	SWL* stands for Safe Working Load								
	RS stands for Rung Spacing								



Calculate the deflection for the new load value of 176 pounds per foot on a 10' span.

Formula: Divide the new known load for the 12' span by the desired load for the 10' span and multiply the result by the deflection for the known 12' span. See sample load table above. Calculate the deflection for the new load on 10' span.

Formula	Calculation	Where
		D ₂ Calculated deflection for the new load
$\mathbf{W}_1 = \mathbf{W}_1$	$=$ $\frac{122}{1}$ X 1.15 $=$ 0.80"	W ₂ Calculated load for the new span
$\mathbf{W}_2 = \frac{\mathbf{W}_2}{\mathbf{W}_2} \mathbf{X} \mathbf{W}_1$	$-\frac{176}{176}$ X 1.13 = 0.80	W_1 Load shown in table above for 12' span
		\mathbf{D}_1 Deflection shown in table above for 12' span

Calculate the deflection for a load smaller than the load shown for the span in the load table.

Formula: Divide the desired load by the known load shown in the deflection table and multiply the answer by the deflection shown for the known load in the deflection table. See sample load table above. Calculate the deflection for a load of 80 pounds per foot on a 12' span instead of 122 pounds per foot as shown.

Formula	Calculation	Where	
		D ₂ Calculated deflection for smaller load	
$W_2 = W_2 = 80 = 110$	$=$ $\frac{80}{1.15}$ X 1.15 $=$ 0.754"	W_2 Smaller load for the span	
$\begin{bmatrix} \mathbf{D}_2 & - & \mathbf{W}_1 \end{bmatrix} \mathbf{X} \mathbf{D}_1$	$=$ $\frac{122}{122}$ A 1.13 $=$ 0.734	W_1 Load shown in table above for 12' span	
		\mathbf{D}_1 Deflection shown in table above for 12' span	

FORMULAS & CALCULATIONS

Convert a load with a 1.5 safety factor to a load with a 2.0 safety factor.

Formula: Multiply the load with a 1.5 safety factor by 0.75 to convert it to a load with a 2.0 safety factor. See sample-load table below: Example: Convert 122 pounds per foot with a 1.5 safety factor to a load with a 2.0 safety factor.

	A()IJC5-(W)-144()								
NEMA Class									
12C	12ft 122 (182) 1.15 (29.2) A(RS)IJC5-(W)-(L) 10ft 176 (262) 0.80 (20.3) A(RS)IJC5-(W)-(L)			1200	3.9	2.0	ALIJC5		
	SWL* stands for Safe Working Load								
			RS	S stands for l	Rung Spacing				

Formula	Calculations	Where		
		\mathbf{W}_2	Calculated Load with a 2.0 Safety Factor	
$W_2 = W_1 X$ Multiplier = 122 X 0.75 = 91.5 lbs/ft		W ₁	Load Shown in Table Above for 12' Span	
		Multiplier	Safety Factor Multiplier (0.75) for 2.0	

Convert a concentrated load to pounds per linear foot.

Formula: Double the concentrated load and then divide the result by the support span. See sample load table above. Convert a 200 pound concentrated load to pounds per linear foot.



The calculation above converted a 200 pound concentrated load on a 10 foot span to a 40 pound per linear foot load. Now that the concentrated load is in pounds per linear foot it can be added to the cable load that is also in pounds per foot for the 10 foot span. The 40 pounds per foot can be added directly to the cable load and compared to the loads shown in our load tables. This would result in a 1.5 safety factor on the cable load and the concentrated load. The 40 pounds per foot can be divided by 1.5 resulting in 26.7 pounds per linear foot. When you add 26.7 pounds per linear foot to the cable load the result is a 1.5 safety factor on the cable load and the concentrated load doesn't have a safety factor.



Side Rail and I-Beam Rung Profiles



Standard and High Hat Rung Profile



Ventilated Corrugated Bottom

SIDE RAIL, RUNG & BOTTOM PROFILES & RUNG OPTIONS

Manufactured & Tested In Accordance With NEMA VE-1

Classified By UL As An Equipment Grounding Conductor

CSA Classified Trays Available

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PROFILES & RUNG OPTIONS

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TECHNICAL DATA

I-BEAM SECTIONS

LD**

Η

4.5" HIGH

Η

+0.5"

— F –

-B

LD**







1	JC, IJI	D
Η	F	LD
4.5"	1.5"	3.9**



– F –

Η

IYA, IYB					
H	F	LD			
4.5"	2"	3.9**			

IYC							
H	F	B	LD				
4.5"	2"	0.5"	3.9**				

-W-

W + 1" -

TECHNICAL DATA

I-BEAM SECTIONS

5" HIGH



** = Load Depth (in) shown for standard hat rung 6" - 24" wide ladder. Subtract 0.4375" for high hat rung on 30" and wider trays or trays 6" - 24" wide trays with a (-HR) suffix indicating the tray is using the high hat rung, (Except 16 & 18).

PROFILES & RUNG OPTIONS

TECHNICAL DATA

I-BEAM SECTIONS



TECHNICAL DATA

I-BEAM SECTIONS



6" HIGH



PROFILES & RUNG OPTIONS

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** = Load Depth (in) shown for standard hat rung 6" - 24" wide ladder. Subtract 0.4375" for high hat rung on 30" and wider trays or trays 6" - 24" wide trays with a (-HR) suffix indicating the tray is using the high hat rung, *(Except I6 & I8)*.

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TECHNICAL DATA

RUNG SECTIONS



RUNG PROFILES

PROFILES & RUNG OPTIONS

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TECHNICAL DATA

SOLID RUNG OPTIONS



TECHNICAL DATA

SLOTTED RUNG OPTIONS



Slotted Rung Option Suffix Codes								
Rung TypeHat SlottedFlat Side UpFlat Side DownEvery Other Rung Inv								
Slotted Hat Rung	-SM							
High Hat Rung	-RM							
Strut Rung		-FM	-IM	-AM				

Slotted hat-shape rungs and strut-shape rungs are available as options for all I-Beam style trays (*Except 16 & 18*). The solid hat-shape rung is standard. Strut-shape rungs can be solid or slotted and have the flat side up, flat side down or an alternating design with every other rung inverted. Slotted rungs can aid in fastening cables down with zip ties. Slots are 7/16" wide by 1/4" and are located on 1" centers. A()I6 and A()I8 trays do not use these rungs and use an I-Beam style rung, (shown above), which is not available with slots. Slotted rungs are often referred to as marine rungs. Add the suffix code shown above to the end of the catalog number. Example: A9IXC-24-144-SM or ALIXC-24H90-24-SM (slotted hat rungs).

TECHNICAL DATA-ELECTRICAL PROPERTIES

The table below provides the electrical properties of the cable tray side rails in this section.

Electrical Properties of the Cable Trays							
Prefix Ladder Ventilated Trough Solid Bottom Trough	Resistance Across 1 ft of Rail (microhms/ft)	Resistance Across Splice (microhms)	Resistance of 12 ft Length With Splices (microhms)	Copper Equivalent (MCM)			
A()IJA, AIJA, ASIJA	5	9	63	771			
A()IJB, AIJB, ASIJB	5	9	63	771			
A()IJC, AIJC, ASIJC	5	10	63	934			
A()IJD, AIJD, ASIJD	5	10	63	934			
A()IYA, AIYA, ASIYA	5	8	75	1159			
A()IYB, AIYB, ASIYB	5	8	75	1159			
A()IYC, AIYC, ASIYC	5	12	63	1255			
A()IJC5, AIJC5, ASIJC5	5	12	63	784			
A()IYB5, AIYB5, ASIYB5	7	9	63	1222			
A()IYC5, AIYC5, ASIYC5	6	8	75	1319			
A()IMB, AIMB, ASIMB	6	7	69	867			
A()IMC, AIMC, ASIMC	6	7	69	867			
A()IMD, AIMD, ASIMD	6	7	69	867			
A()IXA, AIXA, ASIXA	6	6	69	1222			
A()IXB, AIXB, ASIXB	6	6	69	1259			
A()IXC, AIXC, ASIXC	6	4	69	1423			
A()IXD, AIXD, ASIXD	6	4	69	1423			
A()I6, A4I6	4	8	57	1801			
A()IMC7, AIMC7, ASIMC7	5	6	63	1204			
A()IXC7, AIXC7, ASIXC7	5	6	63	1639			
A()IXD7, AIXD7, ASIXD7	5	6	63	1639			
A()I8, A4I8	4	5.6	57	3113			





I-BEAM LADDER

Manufactured & Tested In Accordance With NEMA VE-1

Classified By UL As An Equipment Grounding Conductor

CSA Classified Trays Available

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I-BEAM LADDER

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I-BEAM LADDER	SELECTION TABLES

Tray	NEMA	CSA		NEMA Load	Span	Load Depth	Flange
Height	Class	Class	Prefix	(lbs/ft)		-	Width
neight		Class			(ft)	(in)	
	12A		A()IJA	57	12	3.9**	1.25
	12B		A()IJB	93	12	3.9**	1.25
	12C	D (3m)	A()IJC	115	12	3.9**	1.50
4.5"	12C		A()IJD	159	12	3.9**	1.50
	20A	D (6m)	A()IYA	70	20	3.9**	2.00
	20B	E (6m)	A()IYB	82	20	3.9**	2.00
	20C	E (6m)	A()IYC	100	20	3.9**	2.00
	12A		A()IJC5	122	12	4.4**	2.00
	12B		A()IJC5	122	12	4.4**	2.00
5.0"	12C		A()IJC5	122	12	4.4**	2.00
5.0	20A		A()IYB5	76	20	4.4**	2.00
	20B		A()IYB5	76	20	4.4**	2.00
	20 C		A()IYC5	100	20	4.4**	2.00
	12A		A()IMB	83	12	5.4**	2.00
	12B		A()IMB	83	12	5.4**	2.00
	12C		A()IMC	106	12	5.4**	2.00
	12C		A()IMD	135	12	5.4**	2.00
	20A	D (6m)	A()IXA	69	20	5.4**	2.00
	20B	E (6m)	A()IXB	95	20	5.4**	2.00
	20C	E (6m)	A()IXC	104	20	5.4**	2.00
6.0"	20C	E (6m)	A()IXD	113	20	5.4**	2.00
	20C	E (6m)	A()I6	200	20	4.9	3.50
	24A	E (6m)	A()I6	139	24	4.9	3.50
	24B	E (6m)	A() I6	139	24	4.9	3.50
	24C	E (6m)	A() I6	139	24	4.9	3.50
	25C	E (6m)	A()I6	128	25	4.9	3.50
	30A	E (6m)	A() I6	89	30	4.9	3.50
	30B	E (6m)	A() I6	89	30	4.9	3.50
	12A		A()IMC7	157	12	6.4**	2.00
	12B		A()IMC7	157	12	6.4**	2.00
	12C		A()IMC7	157	12	6.4**	2.00
	20A		A()IXC7	114	20	6.4**	2.00
7.0"	20B		A()IXC7	114	20	6.4**	2.00
	20C		A()IXC7	114	20	6.4**	2.00
	20 C	E (6m)	A()IXD7	128	20	6.4**	2.00
	24A	E (6m)	A()IXD7	89	24	6.4**	2.00
	24B	E (6m)	A()IXD7	89	24	6.4**	2.00
	24C	E (6m)	A() I8	288	24	6.8	3.08
8.0"	30C	E (6m)	A() I8	128	30	6.8	3.08
	40A	E (6m)	A() I8	72	40	6.8	3.08

** = Load Depth (in) shown for standard hat rung 6" - 24" wide ladder. Subtract 0.4375" for high hat rung on 30" and wider trays or 6" - 24" wide trays with a (-HR) suffix indicating the tray is using the high hat rung, *(Except 16 & 18)*.

NEMA Class	Load lbs/ft (kgs/m)	Span (ft)
12A	50 / (74.4)	12
12B	75 / (111.6)	12
12C	100 / (148.8)	12
20A	50 / (74.4)	20
20B	75 / (111.6)	20
20C	100 / (148.8)	20

CSA Class	Load kgs/m (lbs/ft)	Span (m)
Α	37 / (24.9)	3
С	97 / (65.2)	3
D	179 / (120.3)	3
D	67 / (45.0)	6
E	299 / (200.9)	3
E	112 / (75.3)	6

I-BEAM LADDER

I-BEAM SERIES

ALUMINUM LADDER

4.5" HIGH



I-BEAM SERIES

ALUMINUM LADDER

										← F →
NEMA Class	CSA Class	Support Span	SWL* lbs/ft (kg/m)	Deflection in (mm)	Catalog No.	UL EGC (amps)		F (in)	Fitting Prefix	
12A		12 ft	57 (84.8)	0.77 (19.6)	A(RS)IJA-(W)-(L)	1200	3.9**	1.25	ALIJA	Н
12B		12 ft	93 (138.4)	1.26 (32.0)	A(RS) IJB- (W)-(L)	1200	3.9**	1.25	ALIJB	<u>_</u>
12C	D (3m)	12 ft	115 (171.1)	1.36 (34.5)	A(RS)IJC-(W)-(L)	1200	3.9**	1.5	ALIJC	$W \rightarrow 0.5$
12C		12 ft	159 (236.6)	1.88 (47.8)	A(RS) IJD- (W)-(L)	1200	3.9**	1.5	ALIJD	$-W + 1" \rightarrow$ IJA, IJB, IJC,
20A	D (6m)	20 ft	70 (104.2)	4.26 (108.2)	A(RS)IYA-(W)-(L)	1200	3.9**	2.0	ALIYA	IJD, IYA, IYB
20B	E (6m)	20 ft	82 (122.0)	4.99 (126.8)	A(RS)IYB-(W)-(L)	1200	3.9**	2.0	ALIYB	→ F→
20 C	E (6m)	20 ft	100 (148.8)	5.52 (140.2)	A(RS)IYC-(W)-(L)	1600	3.9**	2.0	ALIYC	I←⊢B

(RS) = Denotes desired nominal Rung Spacing (in)

(W) = Denotes desired Width (in)

(L) = Denotes desired Length (in)

*Safe Working Load based on 12 ft (3.66m) or 20 ft (6m) span with a 1.5 safety factor.

** = Load Depth (in) shown for standard hat rung 6" - 24" wide ladder. Subtract 0.4375" for high hat rung on 30" and wider trays or 6" - 24" wide trays with a (-HR) suffix indicating the tray is using the high hat rung, (Except 16 & 18). CONTACT FACTORY FOR QUICK SHIP DETAILS.

For trays that show a CSA load class in the table above insert a (-CSA) after the length on straight sections or at the end of the part number on fittings. See examples below:

> A9IJC-24-144-CSA ALIJC-24H90-24-CSA

SEE PAGES 59 - 70 FOR FITTINGS

35

Prefix Examples					
Tray Style	IJC Fitting Prefix	Setting S			
Ladder	ALIJC				
4" RS Ventilated Trough	A4IJC	0			



4.5" HIGH

4.5 HIGH LADDER

I-BEAM LADDER

mphusky

I-BEAM SERIES

ALUMINUM LADDER

5" HIGH



I-BEAM SERIES

ALUMINUM LADDER

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	Support Span	SWL* lbs/ft (kg/m)	Deflection in (mm)	Catalog No.	UL EGC (amps)				LD**
12C	12 ft	122 (181.6)	1.15 (29.2)	A(RS) IJC5- (W)-(L)	1200	4.4**	2.0	ALIJC5	
20B	20 ft	76 (113.1)	4.77 (121.2)	A(RS) IYB5- (W)-(L)	1600	4.4**	2.0	ALIYB5	↓
20C	20 ft	100 (148.9)	4.33 (110.0)	A(RS) IYC5- (W)-(L)	2000	4.4**	2.0	ALIYC5	

(RS) = Denotes desired nominal Rung Spacing (in)

(W) = Denotes desired Width (in)

(L) = Denotes desired Length (in)

*Safe Working Load based on 12 ft (3.66m) or 20 ft (6m) span with a 1.5 safety factor.

** = Load Depth (in) shown for standard hat rung 6" - 24" wide ladder. Subtract 0.4375" for high hat rung on 30" and wider trays or 6" - 24" wide trays with a (-HR) suffix indicating the tray is using the high hat rung, *(Except 16 & 18)*. CONTACT FACTORY FOR QUICK SHIP DETAILS



5" HIGH

Η

|**←** F →|

SEE PAGES 59 – 70 FOR FITTINGS

36

Prefix Examples					
Tray Style	IJC5 Fitting Prefix				
Ladder	ALIJC5				
4" RS Ventilated Trough	A4IJC5				


I-BEAM LADDER

I-BEAM SERIES

ALUMINUM LADDER

6" HIGH



I-BEAM SERIES

ALUMINUM LADDER

NEMA Class	CSA Class	Support Span	SWL* lbs/ft (kg/m)	Deflection in (mm)	Catalog No.	UL EGC (amps)	LD (in)		Fitting Prefix	
12B		12 ft	83 (123.5)	0.47 (12.0)	A(RS) IMB- (W)-(L)	1200	5.4**	2.0	ALIMB	LD
12C		12 ft	106 (157.8)	0.60 (15.2)	A(RS)IMC-(W)-(L)	1200	5.4**	2.0	ALIMC] _↓
12C		12 ft	135 (200.9)	0.76 (19.3)	A(RS) IMD- (W)-(L)	1200	5.4**	2.0	ALIMD] _
20A	D (6m)	20 ft	69 (102.7)	2.29 (58.2)	A(RS)IXA-(W)-(L)	1600	5.4**	2.0	ALIXA] -V
20B	E (6m)	20 ft	95 (141.4)	3.08 (78.2)	A(RS) IXB- (W)-(L)	1600	5.4**	2.0	ALIXB]
20C	E (6m)	20 ft	104 (154.8)	3.08 (78.2)	A(RS) IXC- (W)-(L)	2000	5.4**	2.0	ALIXC	
20 C	E (6m)	20 ft	113 (168.2)	3.34 (84.8)	A(RS) IXD- (W)-(L)	2000	5.4**	2.0	ALIXD] ▲

(RS) = Denotes desired nominal Rung Spacing (in)

(W) = Denotes desired Width (in)

(L) = Denotes desired Length (in)

*Safe Working Load based on 12 ft (3.66m) or 20 ft (6m) span with a 1.5 safety factor.

** = Load Depth (in) shown for standard hat rung 6" - 24" wide ladder. Subtract 0.4375" for high hat rung on 30" and wider trays or 6" - 24" wide trays with a (-HR) suffix indicating the tray is using the high hat rung, *(Except 16 & 18)*. CONTACT FACTORY FOR QUICK SHIP DETAILS.

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For trays that show a CSA load class in the table above insert a (-CSA) after the length on straight sections or at the end of the part number on fittings. See examples below:

> A9IXC-24-144-CSA ALIXC-24H90-24-CSA

SEE PAGES 59 – 70 FOR 1	FITTINGS						
Prefix Examples							
Tray Style	IXC Fitting Prefix	Setting					
Ladder	ALIXC	6					
4" RS Ventilated Trough	A4IXC	Q					

6" HIGH

|← F →|

6" HIGH LADDER

I-BEAM LADDER

mphusky

I-BEAM SERIES

ALUMINUM LADDER

I6 6" HIGH



I-BEAM SERIES

ALUMINUM LADDER

I6 6" HIGH

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		C (ID		T ¹ 44	_ 	F —
NEMA Class	CSA Class	Support Span	SWL* lbs/ft (kg/m)	Deflection in (mm)	Catalog No.	UL EGC (amps)			Fitting Prefix	Î	
20C	E (6m)	20 ft	200 (297.6)	3.10 (78.7)	A(RS) I6- (W)-(L)	2000	4.9	3.5	ALI6	LD	
24C	E (6m)	24 ft	139 (206.9)	4.46 (113.3)	A(RS) I6- (W)-(L)	2000	4.9	3.5	ALI6		
25C	E (6m)	25 ft	128 (190.5)	4.85 (123.2)	A(RS) I6- (W)-(L)	2000	4.9	3.5	ALI6	Ļ	
30B	E (6m)	30 ft	89 (132.5)	6.97 (177.0)	A(RS) I6- (W)-(L)	2000	4.9	3.5	ALI6		
 (RS) = Denotes desired nominal Rung Spacing (in) (W) = Denotes desired Width (in) (L) = Denotes desired Length (in) *Safe Working Load based on 20 ft (6m), 24 ft (7.32m), 25 ft (7.62m), or 30 ft (9.14m) span with a 1.5 safety factor. 									— W — — W + 3	.50" <i>16</i>	
Loads shown should be multiplied by 0.75 for 18 inch rung spacing.											

Η +1.75" - 3.50' *I6*

п For trays that show a CSA load class in the table above insert a (-CSA) after the length on straight sections or at the end of the part number on fittings. See examples below:

> A9I6-24-144-CSA ALI6-24H90-24-CSA

SEE PAGES 59 - 70 FOR FITTINGS

Prefix Examples								
Tray Style	I6 Fitting Prefix							
Ladder	ALI6							
4" RS Ventilated Trough	A4I6							



I-BEAM LADDER

I-BEAM SERIES

ALUMINUM LADDER

7" HIGH



I-BEAM SERIES

ALUMINUM LADDER

										. - F →	4
		Support Span	SWL* lbs/ft (kg/m)	Deflection in (mm)	Catalog No.	UL EGC (amps)			Fitting Prefix	LD**	° 🛔
12C		12 ft	157 (233.6)	0.61 (15.5)	A(RS) IMC7- (W)-(L)	1600	6.4**	2.0	ALIMC7		H
20 C		20 ft	114 (169.7)	2.17 (55.1)	A(RS) IXC7- (W)-(L)	2000	6.4**	2.0	ALIXC7	↓	
24B	E (6m)	24 ft	89 (132.5)	3.52 (89.4)	A(RS) IXD7- (W)-(L)	2000	6.4**	2.0	ALIXD7		+0.:
										− W + I'' →	-

(RS) = Denotes desired nominal Rung Spacing (in)

(W) = Denotes desired Width (in)

(L) = Denotes desired Length (in)

*Safe Working Load based on 12 ft (3.66m), 20 ft (6m), or 24 ft (7.3m) span with a 1.5 safety factor.

** = Load Depth (in) shown for standard hat rung 6" - 24" wide ladder. Subtract 0.4375" for high hat rung on 30" and wider trays or 6" - 24" wide trays with a (-HR) suffix indicating the tray is using the High Hat Rung, *(Except 16 & 18)*.

LD** H -W -W -W -W +1" \rightarrow 0.5"

IMC7

|**←** F →|

I⇒⊢B

IXC7, IXD7

Autonal Decrifical Manufacturers Association **PERMARA** Setting Standards for Excellence Member **Without Standards and Standards**

For trays that show a CSA load class in the table above insert a (-CSA) after the length on straight sections or at the end of the part number on fittings. See examples below:

> A9IXD7-24-144-CSA ALIXD7-24H90-24-CSA

SEE PAGES 59 – 70 FOR FITTINGS

Prefix Examples							
Tray Style	IMC7 Fitting Prefix						
Ladder	ALIMC7						
4" RS Ventilated Trough	A4IMC7						

7" HIGH

.5'

I-BEAM LADDER

I8 8" HIGH

ALUMINUM LADDER

I-BEAM SERIES



I-BEAM SERIES

ALUMINUM LADDER

- F – CSA SWL* LD Fitting NEMA Support Deflection UL EGC F Catalog No. lbs/ft (kg/m) Class Class in (mm) (in) (in) Prefix Span (amps) **20C** E (6m) 20 ft 288 (428.6) 1.35 (34.3) A(RS)**I8**-(W)-(L) 2000 6.8 3.08 ALI8 LD 1.94 (49.3) **24**C 200 (297.6) A(RS)**I8-**(W)-(L) E (6m) 24 ft 2000 6.8 3.08 ALI8 Η 25C E (6m) 25 ft 184 (273.8) 2.11 (53.6) A(RS)**I8**-(W)-(L) 2000 6.8 3.08 ALI8 **30C** E (6m) 30 ft 128 (190.5) 3.03 (77.0) A(RS)18-(W)-(L) 2000 6.8 3.08 ALI8 **40A** 72 (107.2) A(RS)**I8-**(W)-(L) E (6m) 40 ft 5.39 (136.9) 2000 6.8 3.08 ALI8 (RS) = Denotes desired nominal Rung Spacing (in) ▶ 1.54" – W 🗕 (W) = Denotes desired Width (in) -W + 3.08"(L) = Denotes desired Length (in) *Safe Working Load based on 20 ft (6m), 24 ft (7.32m), 25 ft (7.62m), or 30 ft (9.14m), 40 ft (12.24m) span with a *I8* 1.5 safety factor.

Loads shown should be multiplied by 0.75 for 18 inch rung spacing.

SEE PAGES 59 – 70 FOR FITTINGS

For trays that show a CSA load class in the table above insert a (-CSA) after the length on straight	
sections or at the end of the part number on	
fittings. See examples below:	
A9I8-24-144-CSA	

ALI8-24H90-24-CSA

Prefix Examples								
Tray Style	I8 Fitting Prefix							
Ladder	ALI8							
4" RS Ventilated Trough	A4I8							



I8 8" HIGH

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TRAYS FOR 12 FOOT SUPPORT SPANS OR LESS										
	Support Span	6	ft	8	8 ft		10 ft		ft	
Tray Height	Тгау Туре	Load (lbs/ft)	Defl (i n)	Load (lbs/ft)	Defl (in)	Load (lbs/ft)	Defl (in)	Load (lbs/ft)	Defl (in)	
	A()IJA	228	0.19	128	0.34	82	0.53	57	0.77	
4.5"	A()IJB	372	0.32	209	0.56	134	0.87	93	1.26	
4.5	A()IJC	460	0.34	259	0.60	166	0.94	115	1.36	
	A()IJD	636	0.47	358	0.84	228	1.29	159	1.88	
5.0"	A()IJC5	488	0.29	275	0.51	176	0.80	122	1.15	
	A()IMB	332	0.12	187	0.21	120	0.33	83	0.47	
6.0"	A()IMC	424	0.15	239	0.27	153	0.42	106	0.60	
	A()IMD	540	0.19	304	0.34	194	0.53	135	0.76	
7.0"	A() IMC7	628	0.15	353	0.27	226	0.42	157	0.61	

ALUMINUM LADDER LOADING & DEFLECTION

	TRAYS FOR SPANS UP TO 20 FOOT											
	Support Span	12	ft	16	16 ft		18 ft		ft			
Tray Height	Тгау Туре	Load (lbs/ft)	Defl (in)	Load (lbs/ft)	Defl (in)	Load (lbs/ft)	Defl (in)	Load (lbs/ft)	Defl (in)			
	A()IYA	194	1.53	109	2.72	86	3.43	70	4.26			
4.5"	A()IYB	228	1.80	128	3.20	101	4.05	82	4.99			
	A()IYC	278	1.99	156	3.53	123	4.47	100	5.52			
5.0"	A()IYB5	211	1.72	118	3.05	94	3.86	76	4.77			
5.0	A()IYC5	278	1.56	156	2.78	123	3.52	100	4.33			
	A()IXA	192	0.83	108	1.47	85	1.86	69	2.29			
6.0"	A()IXB	264	1.11	148	1.97	117	2.50	95	3.08			
0.0	A()IXC	289	1.11	163	1.97	128	2.49	104	3.08			
	A()IXD	314	1.20	177	2.14	140	2.70	113	3.34			
7.0"	A() IXC7	317	0.78	178	1.39	141	1.76	114	2.17			

	HEAVY DUTY TRAYS FOR SPANS UP TO 40 FOOT											
	Support Span	Span 20 ft			24 ft 25 ft		30 ft		40 ft			
Tray Height	Tray Type	Load (lbs/ft)	Defl (in)									
6.0"	A() I6	200	3.10	139	4.46	128	4.85	89	6.97			
7.0"	A() IXD7	128	2.45	89	3.52							
8.0"	A() I8	288	1.35	200	1.94	184	2.11	128	3.03	72	5.39	

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Load shown is pounds per linear foot.

Deflection shown is inches.

Loads shown should be multiplied by 0.75 for 18 inch rung spacing.









Ventilated Corrugated Bottom 12" Rung Spacing, 6" - 24" Wide



Ventilated Bottom 4" Rung Spacing, 6" - 36" Wide



Ventilated Perforated Bottom (-F04) 12" Rung Spacing, 6" - 36" Wide

I-BEAM VENTILATED BOTTOM TROUGH

Manufactured & Tested In Accordance With NEMA VE-1

Classified By UL As An Equipment Grounding Conductor

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mphusky



I-BEAM VENTILATED TROUGH

mphusky

I-BEAM VENTILATED TROUGH SELECTION TABLES

		CC			C		
Tray	NEMA	CSA	Prefix	NEMA Load		Load Depth	Flange
Height	Class	Class	ПСПА	(lbs/ft)	(ft)	(in)	Width
	12A		A()IJA	57	12	3.9**	1.25
	12B		A()IJB	93	12	3.9**	1.25
	12C		A()IJC	115	12	3.9**	1.50
4.5"	12C		A()IJD	159	12	3.9**	1.50
	20A		A()IYA	70	20	3.9**	2.00
	20B		A()IYB	82	20	3.9**	2.00
	20 C		A()IYC	100	20	3.9**	2.00
	12A		A()IJC5	122	12	4.4**	2.00
	12B		A()IJC5	122	12	4.4**	2.00
5.0"	12C		A()IJC5	122	12	4.4**	2.00
5.0	20A		A()IYB5	76	20	4.4**	2.00
	20B		A()IYB5	76	20	4.4**	2.00
	20 C		A()IYC5	100	20	4.4**	2.00
	12A		A()IMB	83	12	5.4**	2.00
	12B		A()IMB	83	12	5.4**	2.00
	12C		A()IMC	106	12	5.4**	2.00
	12C		A()IMD	135	12	5.4**	2.00
	20A		A()IXA	69	20	5.4**	2.00
	20B		A()IXB	95	20	5.4**	2.00
	20 C		A()IXC	104	20	5.4**	2.00
6.0"	20 C		A()IXD	113	20	5.4**	2.00
	20 C	E (6m)	A() I6	200	20	4.9	3.50
	24A	E (6m)	A()I6	139	24	4.9	3.50
	24B	E (6m)	A() I6	139	24	4.9	3.50
	24 C	E (6m)	A() I6	139	24	4.9	3.50
	25 C	E (6m)	A()I6	128	25	4.9	3.50
	30A	E (6m)	A() I6	89	30	4.9	3.50
	30B	E (6m)	A() I6	89	30	4.9	3.50
	12A		A()IMC7	157	12	6.4**	2.00
	12B		A()IMC7	157	12	6.4**	2.00
	12C		A()IMC7	157	12	6.4**	2.00
	20A		A()IXC7	114	20	6.4**	2.00
7.0"	20B		A()IXC7	114	20	6.4**	2.00
	20 C		A()IXC7	114	20	6.4**	2.00
	20 C		A()IXD7	128	20	6.4**	2.00
	24A		A()IXD7	89	24	6.4**	2.00
	24B		A()IXD7	89	24	6.4**	2.00
	24C	E (6m)	A() I8	288	24	6.8	3.08
8.0"	30C	E (6m)	A() I8	128	30	6.8	3.08
	40 C	E (6m)	A() I8	72	40	6.8	3.08

** = Load Depth (in) shown for standard hat rung 6" - 24" wide ladder. Subtract 0.4375" for high hat rung on 30" and wider trays or 6" - 24" wide trays with a (-HR) suffix indicating the tray is using the high hat rung, *(Except 16 & 18)*.

NEMA Class	Load lbs/ft (kgs/m)	Span (ft)
12A	50 / (74.4)	12
12B	75 / (111.6)	12
12C	100 / (148.8)	12
20A	50 / (74.4)	20
20B	75 / (111.6)	20
20C	100 / (148.8)	20

CSA Class	Load kgs/m (lbs/ft)	Span (m)
Α	37 / (24.9)	3
С	97 / (65.2)	3
D	179 / (120.3)	3
D	67 / (45.0)	6
E	299 / (200.9)	3
E	112 / (75.3)	6

I-BEAM VENTILATED TROUGH

I-BEAM SERIES

ALUMINUM VENTILATED TROUGH

4.5" HIGH



I-BEAM SERIES

ALUMINUM VENTILATED TROUGH

										. ← F →
NEMA Class	CSA Class	Support Span	SWL* lbs/ft (kg/m)	Deflection in (mm)	Catalog No.	UL EGC (amps)		F (in)	Fitting Prefix	
12A		12 ft	57 (84.8)	0.77 (19.6)	A() IJA- (W)-(L)	1200	3.9**	1.25	A()IJA	
12B		12 ft	93 (138.4)	1.26 (32.0)	A() IJB- (W)-(L)	1200	3.9**	1.25	A()IJB	
12C		12 ft	115 (171.1)	1.36 (34.5)	A() IJC- (W)-(L)	1200	3.9**	1.5	A()IJC	$-W + 1" \rightarrow 0.5"$
12C		12 ft	159 (236.6)	1.88 (47.8)	A() IJD- (W)-(L)	1200	3.9**	1.5	A()IJD	•
20A		20 ft	70 (104.2)	4.26 (108.2)	A() IYA- (W)-(L)	1200	3.9**	2.0	A()IYA	IJA, IJB, IJC, IJD, IYA, IYB
20B		20 ft	82 (122.0)	4.99 (126.8)	A() IYB- (W)-(L)	1200	3.9**	2.0	A()IYB	← F →
20C		20 ft	100 (149.8)	5.52 (140.2)	A() IYC- (W)-(L)	1600	3.9**	2.0	A()IYC	

() = Blank (Corrugated 6" - 24" wide), Blank (F04 Perf. 6" - 36" wide), 4 (4" rung spacing 6" - 36" wide). See Ladder Section for NEMA load & CSA on 4" rung spacing.

(W) = Denotes desired Width (in)

(L) = Denotes desired Length (in)

*Safe Working Load based on 12 ft (3.66m) or 20 ft (6m) span with a 1.5 safety factor

** = Nominal Load Depth (in) shown for corrugated bottom or standard hat rung on 4" rung spacing 6" - 24" wide. Subtract 0.4375" for high hat rung on 30" and wider trays or 6" - 24" wide trays with a (-HR) suffix indicating the tray is using the high hat rung. Area where corrugation or perforated bottom is present will be below rung height. ***Requires the (-F04) suffix

SEE PAGES 59 - 70 FOR FITTINGS

Prefix Examples							
Tray Style	IJC Fitting Prefix						
Ventilated Trough	AIJC						
4" RS Ventilated Trough	A4IJC						

4.5" HIGH

|**←** F →|

ŀ►⊢B

LD**

Н

-W+1"-

IYC

I-BEAM VENTILATED TROUGH

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I-BEAM SERIES

ALUMINUM VENTILATED TROUGH

5" HIGH



I-BEAM SERIES

ALUMINUM VENTILATED TROUGH

									-
	Support Span	SWL* lbs/ft (kg/m)	Deflection in (mm)	Catalog No.	UL EGC (amps)	LD (in)		Fitting Prefix	
12C	12 ft	122 (181.6)	1.15 (29.2)	A() IJC5- (W)-(L)	1200	4.4**	2.0	A()IJC5	
20B	20 ft	76 (113.1)	4.77 (121.2)	A() IYB5- (W)-(L)	1600	4.4**	2.0	A()IYB5	_★
20 C	20 ft	100 (148.8)	4.33 (110.0)	A() IYC5- (W)-(L)	2000	4.4**	2.0	A()IYC5	-W

() = Blank (Corrugated 6" - 24" wide), Blank (F04 Perf. 6" - 36" wide), 4 (4" rung spacing 6" - 36" wide). See Ladder Section for NEMA load & CSA on 4" rung spacing.

(W) = Denotes desired Width (in)

(L) = Denotes desired Length (in)

*Safe Working Load based on 12 ft (3.66m) or 20 ft (6m) span with a 1.5 safety factor.

** = Nominal Load Depth (in) shown for corrugated bottom or standard hat rung on 4" rung spacing 6" - 24" wide. Subtract 0.4375" for high hat rung on 30" and wider trays or 6" - 24" wide trays with a (-HR) suffix indicating the tray is using the high hat rung. Area where corrugation or perforated bottom is present will be below rung height. ***Requires the (-F04) suffix



5" HIGH

Η

I← F →

SEE PAGES 59 – 70 FOR FITTINGS

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Prefix Examples								
Tray Style	IJC5 Fitting Prefix							
Ventilated Trough	AIJC5							
4" RS Ventilated Trough	A4IJC5							



IYC5

I-BEAM VENTILATED TROUGH

I-BEAM SERIES

ALUMINUM VENTILATED TROUGH

6" HIGH



I-BEAM SERIES

ALUMINUM VENTILATED TROUGH

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	CSA Class	Support Span	SWL* lbs/ft (kg/m)	Deflection in (mm)	Catalog No.	UL EGC (amps)		F (in)	Fitting Prefix	
12B		12 ft	83 (123.5)	0.47 (11.9)	A() IMB- (W)-(L)	1200	5.4**	2.0	A()IMB	
12C		12 ft	106 (157.8)	0.60 (15.2)	A() IMC- (W)-(L)	1200	5.4**	2.0	A()IMC	<u> </u>
12C		12 ft	135 (200.9)	0.76 (19.3)	A() IMD- (W)-(L)	1200	5.4**	2.0	A()IMD	
20A		20 ft	69 (102.7)	2.29 (58.2)	A() IXA- (W)-(L)	1600	5.4**	2.0	A()IXA	$-W$ $\rightarrow \rightarrow 0.5"$ $-W + 1" \rightarrow$
20B		20 ft	95 (141.4)	3.08 (78.2)	A() IXB- (W)-(L)	1600	5.4**	2.0	A()IXB	IMB, IMC,
20 C		20 ft	104 (154.8)	3.08 (78.2)	A() IXC- (W)-(L)	2000	5.4**	2.0	A()IXC	IMD, IMC, IMD, IXA
20 C		20 ft	113 (168.2)	3.34 (84.8)	A() IXD- (W)-(L)	2000	5.4**	2.0	A()IXD	

() = Blank (Corrugated 6" - 24" wide), Blank (F04 Perf. 6" - 36" wide), 4 (4" rung spacing 6" - 36" wide). See Ladder Section for NEMA load & CSA on 4" rung spacing.

(W) = Denotes desired Width (in)

(L) = Denotes desired Length (in)

*Safe Working Load based on 12 ft (3.66m) or 20 ft (6m) span with a 1.5 safety factor

** = Nominal Load Depth (in) shown for corrugated bottom or standard hat rung on 4" rung spacing 6" - 24" wide. Subtract 0.4375" for high hat rung on 30" and wider trays or 6" - 24" wide trays with a (-HR) suffix indicating the tray is using the high hat rung. Area where corrugation or perforated bottom is present will be below rung height. ***Requires the (-F04) suffix

SEE PAGES 59 - 70 FOR FITTINGS

Prefix E	xamples
Tray Style	IXC Fitting Prefix
Ventilated Trough	AIXC
4" RS Ventilated Trough	A4IXC

6" HIGH

Η

|**←** F →|

ŀ►⊢B

 $W \rightarrow 0.5$ "

IXB, IXC, IXD

LD**

I-BEAM VENTILATED TROUGH

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I-BEAM SERIES

ALUMINUM VENTILATED TROUGH

7" HIGH



I-BEAM SERIES

ALUMINUM VENTILATED TROUGH

NEMA Class	Support Span	SWL* lbs/ft (kg/m)	Deflection in (mm)	Catalog No.	UL EGC (amps)	LD (in)		Fitting Prefix
12C	12 ft	157 (233.6)	0.61 (15.5)	A() IMC7- (W)-(L)	1600	6.4**	2.0	A()IMC7
20C	20 ft	114 (169.7)	2.17 (55.1)	A() IXC7- (W)-(L)	2000	6.4**	2.0	A()IXC7
24B	24 ft	89 (132.5)	3.52 (89.4)	A() IXD7- (W)-(L)	2000	6.4**	2.0	A()IXD7

() = Blank (Corrugated 6" - 24" wide), Blank (F04 Perf. 6" - 36" wide), 4 (4" rung spacing 6" - 36" wide). See Ladder Section for NEMA load & CSA on 4" rung spacing.

(W) = Denotes desired Width (in)

(L) = Denotes desired Length (in)

*Safe Working Load based on 12 ft (3.66m), 20 ft (6m) or 24 ft (7.3m) span with a 1.5 safety factor.

** = Nominal Load Depth (in) shown for corrugated bottom or standard hat rung on 4" rung spacing 6" - 24" wide. Subtract 0.4375" for high hat rung on 30" and wider trays or 6" - 24" wide trays with a (-HR) suffix indicating the tray is using the high hat rung. Area where corrugation or perforated bottom is present will be below rung height. ***Requires the (-F04) suffix



IXC7, IXD7

SEE PAGES 59 – 70 FOR FITTINGS

Prefix E	Prefix Examples								
Tray Style	IMC7 Fitting Prefix								
Ventilated Trough	AIMC7								
4" RS Ventilated Trough	A4IMC7								

7" HIGH

Η

.

LD**

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ALUMINUM VENTILATED TROUGH LOADING & DEFLECTION

	TRAYS FOR 12 FOOT SUPPORT SPANS OR LESS											
	Support Span	6	ft	8 ft		10 ft		12 ft				
Tray Height	Тгау Туре	Load (lbs/ft)	Defl (in)	Load (lbs/ft)	Defl (in)	Load (lbs/ft)	Defl (in)	Load (lbs/ft)	Defl (in)			
	A()IJA	228	0.19	128	0.34	82	0.53	57	0.77			
4.5"	A()IJB	372	0.32	209	0.56	134	0.87	93	1.26			
4.3	A()IJC	460	0.34	259	0.60	166	0.94	115	1.36			
	A() IJD	636	0.47	358	0.84	228	1.29	159	1.88			
5.0"	A()IJC5	488	0.29	275	0.51	176	0.80	122	1.15			
	A()IMB	332	0.12	187	0.21	120	0.33	83	0.47			
6.0"	A()IMC	424	0.15	239	0.27	153	0.42	106	0.60			
	A()IMD	540	0.19	304	0.34	194	0.53	135	0.76			
7.0"	A() IMC7	628	0.15	353	0.27	226	0.42	157	0.61			

TRAYS FOR SPANS UP TO 20 FOOT

	Support Span	12	ft	16	ft	18	ft	20	ft
Tray Height	Тгау Туре	Load (lbs/ft)	Defl (in)	Load (lbs/ft)	Defl (in)	Load (lbs/ft)	Defl (in)	Load (lbs/ft)	Defl (in)
	A()IYA	194	1.53	109	2.72	86	3.43	70	4.26
4.5"	A()IYB	228	1.80	128	3.20	101	4.05	82	4.99
	A()IYC	278	1.99	156	3.53	123	4.47	100	5.52
5.0"	A()IYB5	211	1.72	118	3.05	94	3.86	76	4.77
5.0	A() IYC5	278	1.56	156	2.78	123	3.52	100	4.33
	A()IXA	192	0.83	108	1.47	85	1.86	69	2.29
6.0"	A() IXB	264	1.11	148	1.97	117	2.50	95	3.08
0.0	A()IXC	289	1.11	163	1.97	128	2.49	104	3.08
	A()IXD	314	1.20	177	2.14	140	2.70	113	3.34
7.0"	A()IXC7	317	0.78	178	1.39	141	1.76	114	2.17

HEAVY DUTY TRAYS FOR SPANS UP TO 40 FOOT

	Support Span	20	ft	24	ft	25	ft	30	ft	40	ft
Tray Height	Тгау Туре	Load (lbs/ft)	Defl (in)								
6.0"	A() I6	200	3.10	139	4.46	128	4.85	89	6.97		
7.0"	A() IXD7	128	2.45	89	3.52						
8.0"	A() I8	288	1.35	200	1.94	184	2.11	128	3.03	72	5.39

Load shown is pounds per linear foot. Deflection shown is inches.





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VENTILATED TROUGH





Solid Corrugated Bottom 12" Rung Spacing, 6" - 24" Wide



Solid Bump Bottom (06C) 12" Rung Spacing, 6" - 36" Wide



Flat Solid Bottom (F04) 12" Rung Spacing, 6" - 36" Wide

I-BEAM SOLID BOTTOM TROUGH

Manufactured & Tested In Accordance With NEMA VE-1

Classified By UL As An Equipment Grounding Conductor

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SOLID BOTTOM TROUGH

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I-BEAM SOLID BOTTOM TROUGH SELECTION TABLES

Tray Height	NEMA Class	CSA Class	Prefix	NEMA Load (lbs/ft)	Span (ft)	Load Depth (in)	Flange Width
	12A		ASIJA	57	12	3.9**	1.25
	12B		ASIJB	93	12	3.9**	1.25
	12C		ASIJC	115	12	3.9**	1.50
4.5"	12C		ASIJD	159	12	3.9**	1.50
	20A		ASIYA	70	20	3.9**	2.00
	20B		ASIYB	82	20	3.9**	2.00
	20C		ASIYC	100	20	3.9**	2.00
	12A		ASIJC5	122	12	4.4**	2.00
	12B		ASIJC5	122	12	4.4**	2.00
5.0"	12C		ASIJC5	122	12	4.4**	2.00
5.0	20A		ASIYB5	76	20	4.4**	2.00
	20B		ASIYB5	76	20	4.4**	2.00
	20C		ASIYC5	100	20	4.4**	2.00
	12A		ASIMB	83	12	5.4**	2.00
	12B		ASIMB	83	12	5.4**	2.00
	12C		ASIMC	106	12	5.4**	2.00
6.0"	12C		ASIMD	135	12	5.4**	2.00
0.0	20A		ASIXA	69	20	5.4**	2.00
	20B		ASIXB	95	20	5.4**	2.00
	20C		ASIXC	104	20	5.4**	2.00
	20C		ASIXD	113	20	5.4**	2.00
	12A		ASIMC7	157	12	6.4**	2.00
	12B		ASIMC7	157	12	6.4**	2.00
	12C		ASIMC7	157	12	6.4**	2.00
	20A		ASIXC7	114	20	6.4**	2.00
7.0"	20B		ASIXC7	114	20	6.4**	2.00
	20C		ASIXC7	114	20	6.4**	2.00
	20C		ASIXD7	128	20	6.4**	2.00
	24A		ASIXD7	89	24	6.4**	2.00
	24B		ASIXD7	89	24	6.4**	2.00

** = Load Depth (in) shown for standard hat rung 6" - 24" wide ladder. Subtract 0.4375" for high hat rung on 30" and wider trays or 6" - 24" wide trays with a (-HR) suffix indicating the tray is using the high hat rung, *(Except 16 & 18)*.

NEMA Class	Load lbs/ft (kgs/m)	Span (ft)
12A	50 / (74.4)	12
12B	75 / (111.6)	12
12C	100 / (148.8)	12
20A	50 / (74.4)	20
20B	75 / (111.6)	20
20C	100 / (148.8)	20

CSA Class	Load kgs/m (lbs/ft)	Span (m)
Α	37 / (24.9)	3
С	97 / (65.2)	3
D	179 / (120.3)	3
D	67 / (45.0)	6
E	299 / (200.9)	3
E	112 / (75.3)	6

SOLID BOTTOM TROUGH

I-BEAM SERIES

ALUMINUM SOLID BOTTOM TROUGH

4.5" HIGH



I-BEAM SERIES

ALUMINUM SOLID BOTTOM TROUGH

NEMA Class	CSA Class	Support Span	SWL* lbs/ft (kg/m)	Deflection in (mm)	Catalog No.	UL EGC (amps)		F (in)	Fitting Prefix	
12A		12 ft	57 (84.8)	0.77 (19.6)	ASIJA-(W)-(L)	1200	3.9**	1.25	ASIJA	
12B		12 ft	93 (138.)	1.26 (32.0)	ASIJB-(W)-(L)	1200	3.9**	1.25	ASIJB] ¿
12C		12 ft	115 (171.1)	1.36 (34.5)	ASIJC-(W)-(L)	1200	3.9**	1.5	ASIJC] -
12C		12 ft	159 (236.6)	1.88 (47.8)	ASIJD-(W)-(L)	1200	3.9**	1.5	ASIJD] -
20A		20 ft	70 (104.2)	4.26 (108.2)	ASIYA-(W)-(L)	1200	3.9**	2.0	ASIYA	
20B		20 ft	82 (122.0)	4.99 (126.8)	ASIYB-(W)-(L)	1200	3.9**	2.0	ASIYB	
20C		20 ft	100 (148.8)	5.52 (140.2)	ASIYC-(W)-(L)	1600	3.9**	2.0	ASIYC	

(W) = Desired Width (in)

(L) = Desired Length (in)

*Safe Working Load based on 12 ft (3.66m) or 20 ft (6m) span with a 1.5 safety factor.

** = Nominal Load Depth (in) shown for corrugated bottom or standard hat rung on 4" rung spacing 6" - 24" wide. Subtract 0.4375" for high hat rung on 30" and wider trays or 6" - 24" wide trays with a (-HR) suffix indicating the tray is using the high hat rung. Area where corrugated or flat sheet bottom is present will be below rung height. On (-06C) Bump Bottom 6" - 24" wide subtract 0.125" on all trays that don't have the (-HR) suffix. ***Requires the (-F04) or (-06C) suffix



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Prefix Examples						
Tray Style IJC Fitting Prefix						
Solid Bottom Trough	ASIJC					

LD** $W \rightarrow 0.5"$ $UD + 1" \rightarrow 0.5"$ UD, IYA, IYB UD, IYA, IYB $UD + 1" \rightarrow 0.5"$ UD, IYA, IYB $UD + 1" \rightarrow 0.5"$

4.5" HIGH

|**←** F →|



IYC

4.5" HIGH SOLID TROUGH

SOLID BOTTOM TROUGH

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I-BEAM SERIES

ALUMINUM SOLID BOTTOM TROUGH

5" HIGH



I-BEAM SERIES

ALUMINUM SOLID BOTTOM TROUGH

	Support Span	SWL* lbs/ft (kg/m)	Deflection in (mm)	Catalog No.	UL EGC (amps)			
12C	12 ft	122 (181.6)	1.15 (29.2)	ASIJC5-(W)-(L)	1200	4.4**	2.0	ASIJC5
20B	20 ft	76 (113.1)	4.77 (121.2)	ASIYB5-(W)-(L)	1600	4.4**	2.0	ASIYB5
20C	20 ft	100 (148.8)	4.33 (110.0)	ASIYC5-(W)-(L)	2000	4.4**	2.0	ASIYC5

(W) = Denotes desired Width (in)

(L) = Denotes desired Length (in)

*Safe Working Load based on 12 ft (3.66m) or 20 ft (6m) span with a 1.5 safety factor.

** = Nominal Load Depth (in) shown for corrugated bottom or standard hat rung on 4" rung spacing 6" - 24" wide. Subtract 0.4375" for high hat rung on 30" and wider trays or 6" - 24" wide trays with a (-HR) suffix indicating the tray is using the high hat rung. Area where corrugated or flat sheet bottom is present will be below rung height. On (-06C) Bump Bottom 6" - 24" wide subtract 0.125" on all trays that don't have the (-HR) suffix. ***Requires the (-F04) or (-06C) suffix



5" HIGH



SEE PAGES 59 – 70 FOR FITTINGS

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Prefix Examples						
Tray Style	IJC5 Fitting Prefix					
Solid Bottom Trough	ASIJC5					



SOLID BOTTOM TROUGH

I-BEAM SERIES

ALUMINUM SOLID BOTTOM TROUGH

6" HIGH



I-BEAM SERIES

ALUMINUM SOLID BOTTOM TROUGH

NEMA Class	CSA Class	Support Span	SWL* lbs/ft (kg/m)	Deflection in (mm)	Catalog No.	UL EGC (amps)	LD (in)	F (in)	Fitting Prefix
12B		12 ft	83 (123.5)	0.47 (11.9)	ASIMB-(W)-(L)	1200	5.4**	2.0	ASIMB
12C		12 ft	106 (157.8)	0.60 (15.2)	ASIMC-(W)-(L)	1200	5.4**	2.0	ASIMC
12C		12 ft	135 (200.9)	0.76 (19.3)	ASIMD-(W)-(L)	1200	5.4**	2.0	ASIMD
20A		20 ft	69 (102.7)	2.29 (58.2)	ASIXA-(W)-(L)	1600	5.4**	2.0	ASIXA
20B		20 ft	95 (141.4)	3.08 (78.2)	ASIXB-(W)-(L)	1600	5.4**	2.0	ASIXB
20 C		20 ft	104 (154.8)	3.08 (78.2)	ASIXC-(W)-(L)	2000	5.4**	2.0	ASIXC
20 C		20 ft	113 (168.2)	3.34 (84.8)	ASIXD-(W)-(L)	2000	5.4**	2.0	ASIXD

(W) = Denotes desired Width (in)

(L) = Denotes desired Length (in)

*Safe Working Load based on 12 ft (3.66m) or 20 ft (6m) span with a 1.5 safety factor.

** = Nominal Load Depth (in) shown for corrugated bottom or standard hat rung on 4" rung spacing 6" - 24" wide. Subtract 0.4375" for high hat rung on 30" and wider trays or 6" - 24" wide trays with a (-HR) suffix indicating the tray is using the high hat rung. Area where corrugated or flat sheet bottom is present will be below rung height. On (-06C) Bump Bottom 6" - 24" wide subtract 0.125" on all trays that don't have the (-HR) suffix. ***Requires the (-F04) or (-06C) suffix

SEE PAGES 59 – 70 FOR FITTINGS

Prefix Examples						
Tray Style IXC Fitting Prefix						
Solid Bottom Trough	ASIXC					

447

6" HIGH

SOLID BOTTOM TROUGH

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I-BEAM SERIES

ALUMINUM SOLID BOTTOM TROUGH

7" HIGH



I-BEAM SERIES

ALUMINUM SOLID BOTTOM TROUGH

	CSA Class	Support Span	SWL* lbs/ft (kg/m)	Deflection in (mm)	Catalog No.	UL EGC (amps)			Fitting Prefix	
12C		12 ft	157 (233.6)	0.61 (15.5)	ASIMC7-(W)-(L)	1600	6.4**	2.0	ASIMC7	
20C		20 ft	114 (169.7)	2.17 (55.1)	ASIXC7-(W)-(L)	2000	6.4**	2.0	ASIXC7	
24B		24 ft	89 (132.5)	3.52 (89.4)	ASIXD7-(W)-(L)	2000	6.4**	2.0	ASIXD7	

(W) = Denotes desired Width (in)

(L) = Denotes desired Length (in)

*Safe Working Load based on 12 ft (3.66m), 20 ft (6m) or 24 ft (7.3m) span with a 1.5 safety factor.

** = Nominal Load Depth (in) shown for corrugated bottom or standard hat rung on 4" rung spacing 6" - 24" wide. Subtract 0.4375" for high hat rung on 30" and wider trays or 6" - 24" wide trays with a (-HR) suffix indicating the tray is using the high hat rung. Area where corrugated or flat sheet bottom present will be below rung height. On (-06C) Bump Bottom 6" - 24" wide subtract 0.125" on all trays that don't have the (-HR) suffix. ***Requires the (-F04) or (-06C) suffix



7" HIGH



SEE PAGES 59 – 70 FOR FITTINGS

Prefix Examples				
Tray Style	IMC7 Fitting Prefix			
Solid Bottom Trough	ASIMC7			



	TRAYS FOR 12 FOOT SUPPORT SPANS OR LESS								
	Support Span	6 ft		8 ft		10 ft		12 ft	
Tray Height	Тгау Туре	Load (lbs/ft)	Defl (in)	Load (lbs/ft)	Defl (in)	Load (lbs/ft)	Defl (in)	Load (lbs/ft)	Defl (in)
	A()IJA	228	0.19	128	0.34	82	0.53	57	0.77
4.5"	A()IJB	372	0.32	209	0.56	134	0.87	93	1.26
4.5	A()IJC	460	0.34	259	0.60	166	0.94	115	1.36
	A()IJD	636	0.47	358	0.84	228	1.29	159	1.88
5.0"	A()IJC5	488	0.29	275	0.51	176	0.80	122	1.15
	A()IMB	332	0.12	187	0.21	120	0.33	83	0.47
6.0"	A()IMC	424	0.15	239	0.27	153	0.42	106	0.60
	A()IMD	540	0.19	304	0.34	194	0.53	135	0.76
7.0"	A() IMC7	628	0.15	353	0.27	226	0.42	157	0.61

ALUMINUM SOLID BOTTOM LOADING & DEFLECTION

	TRAYS FOR SPANS UP TO 20 FOOT									
	Support Span	12	12 ft		16 ft		18 ft		20 ft	
Tray Height	Тгау Туре	Load (lbs/ft)	Defl (in)	Load (lbs/ft)	Defl (in)	Load (lbs/ft)	Defl (in)	Load (lbs/ft)	Defl (in)	
	A()IYA	194	1.53	109	2.72	86	3.43	70	4.26	
4.5"	A()IYB	228	1.80	128	3.20	101	4.05	82	4.99	
	A()IYC	278	1.99	156	3.53	123	4.47	100	5.52	
5.0"	A()IYB5	211	1.72	118	3.05	94	3.86	76	4.77	
5.0	A()IYC5	278	1.56	156	2.78	123	3.52	100	4.33	
	A()IXA	192	0.83	108	1.47	85	1.86	69	2.29	
6.0"	A()IXB	264	1.11	148	1.97	117	2.50	95	3.08	
0.0	A()IXC	289	1.11	163	1.97	128	2.49	104	3.08	
	A()IXD	314	1.20	177	2.14	140	2.70	113	3.34	
7.0"	A() IXC7	317	0.78	178	1.39	141	1.76	114	2.17	

HEAVY DUTY TRAYS FOR SPANS UP TO 24 FEET

	Support Span	20	ft	24	ft	25	ft	30	ft	40	ft
Tray Height	Tray Type	Load (lbs/ft)	Defl (in)	Load (lbs/ft)		Load (lbs/ft)		Load (lbs/ft)		Load (lbs/ft)	Defl (in)
7.0"	A() IXD7	128	2.45	89	3.52						

Load shown is pounds per linear foot.

Deflection shown is inches.

Loads shown should be multiplied by 0.75 for 18 inch rung spacing.



SOLID BOTTOM TROUGH





I-BEAM CABLE TRAY FITTINGS

Manufactured & Tested In Accordance With NEMA VE-1

Classified By UL As An Equipment Grounding Conductor

CSA Classified Trays Available

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I-BEAM FITTING CHARTS

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(°) Degree of Bend (90, 60, 45, or 30) for Horizontal and Vertical Inside or Outside Bends

Please see the sheets that follow for complete catalog numbers for Fittings.

ALI6 and ALI8 Fittings have 5" tangents. All other Fittings have 0" tangents.

***Requires the (-F04) or (-06C) suffix

I-BEAM FITTING CHARTS



(°) Degree of Bend (90, 60, 45, or 30) for Horizontal and Vertical Inside or Outside Bends

Please see the sheets that follow for complete catalog numbers for Fittings.

ALI6 and ALI8 Fittings have 5" tangents. All other Fittings have 0" tangents.

***Requires the (-F04) or (-06C) suffix

I-BEAM FITTINGS

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TRAY FITTINGS - HORIZONTAL BENDS

		R	R	R	R
Tray Height	Tray Prefix	Horizontal 90 Degree Bend	Horizontal 60 Degree Bend	Horizontal 45 Degree Bend	Horizontal 30 Degree Bend
	A(L)IJA	-(W)H90-(R)()	-(W)H60-(R)()	-(W)H45-(R)()	-(W)H30-(R)()
	A(L)IJB	-(W)H90-(R)()	-(W)H60-(R)()	-(W)H45-(R)()	-(W)H30-(R)()
	A(L)IJC	-(W)H90-(R)()	-(W)H60-(R)()	-(W)H45-(R)()	-(W)H30-(R)()
4.5"	A(L)IJD	-(W)H90-(R)()	-(W)H60-(R)()	-(W)H45-(R)()	-(W)H30-(R)()
	A(L)IYA	-(W)H90-(R)()	-(W)H60-(R)()	-(W)H45-(R)()	-(W)H30-(R)()
	A(L)IYB	-(W)H90-(R)()	-(W)H60-(R)()	-(W)H45-(R)()	-(W)H30-(R)()
	A(L)IYC	-(W)H90-(R)()	-(W)H60-(R)()	-(W)H45-(R)()	-(W)H30-(R)()
	A(L)IJC5	-(W)H90-(R)()	-(W)H60-(R)()	-(W)H45-(R)()	-(W)H30-(R)()
5"	A(L)IYB5	-(W)H90-(R)()	-(W)H60-(R)()	-(W)H45-(R)()	-(W)H30-(R)()
	A(L)IYC5	-(W)H90-(R)()	-(W)H60-(R)()	-(W)H45-(R)()	-(W)H30-(R)()
	A(L)IMB	-(W)H90-(R)()	-(W)H60-(R)()	-(W)H45-(R)()	-(W)H30-(R)()
	A(L)IMC	-(W)H90-(R)()	-(W)H60-(R)()	-(W)H45-(R)()	-(W)H30-(R)()
	A(L)IMD	-(W)H90-(R)()	-(W)H60-(R)()	-(W)H45-(R)()	-(W)H30-(R)()
6''	A(L)IXA	-(W)H90-(R)()	-(W)H60-(R)()	-(W)H45-(R)()	-(W)H30-(R)()
Ū	A(L)IXB	-(W)H90-(R)()	-(W)H60-(R)()	-(W)H45-(R)()	-(W)H30-(R)()
	A(L)IXC	-(W)H90-(R)()	-(W)H60-(R)()	-(W)H45-(R)()	-(W)H30-(R)()
	A(L)IXD	-(W)H90-(R)()	-(W)H60-(R)()	-(W)H45-(R)()	-(W)H30-(R)()
	A(L) I6	-(W)H90-(R)()	-(W)H60-(R)()	-(W)H45-(R)()	-(W)H30-(R)()
	A(L)IMC7	-(W)H90-(R)()	-(W)H60-(R)()	-(W)H45-(R)()	-(W)H30-(R)()
7''	A(L)IXC7	-(W)H90-(R)()	-(W)H60-(R)()	-(W)H45-(R)()	-(W)H30-(R)()
	A(L)IXD7	-(W)H90-(R)()	-(W)H60-(R)()	-(W)H45-(R)()	-(W)H30-(R)()
8"	A(L) I8	-(W)H90-(R)()	-(W)H60-(R)()	-(W)H45-(R)()	-(W)H30-(R)()

(L) =Ladder (Rung Spacing 9" for all I-Beam Fittings *(Except 16 & 18* are 12" Rung Spacing)), (S) for Solid Bottom Trough (Rung Spacing 12" with Corrugation (6" - 24" Wide), Bump Bottom (06C) *** or Flat Bottom (F04) *** (6" - 36" Wide) between the rungs), () Blank for Ventilated Trough (Rung Spacing 12" with Corrugation (6" - 24" Wide), or Flat Perf. Bottom (F04) *** (6" - 36" Wide) between the rungs) or (4) for 4" Rung Spacing on (6" - 36" Wide) Ventilated Trough Fittings. (W) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

(R) = Radius (12, 18, 24, 36, or 48) denotes desired Radius (in)

() = Blank for standard Zinc-Plated Hardware, (-6S) for 316 Stainless Steel or (-SB) for Silicon Bronze

ALI6 and ALI8 Fittings have 5" tangents. All other Fittings have 0" tangents.

***Requires the (-F04) or (-06C) suffix

Examples: ALIJC-12H90-24 (Ladder, 12" wide Horizontal 90 Degree Bend with 24" radius with standard Zinc-Plated Hardware) AIJC-24H60-12-6S (Ventilated Trough, 24" wide Horizontal 60 Degree Bend with 12" radius with 316 Stainless Steel Hardware) ASIJC-18H45-36-SB (Solid Bottom Trough, 18" wide Horizontal 45 Degree Bend with 36" radius with Silicon Bronze Hardware)

I-BEAM FITTINGS

mphusky

TRAY FITTINGS - VERTICAL 90 & 60 DEGREE BENDS

		R	R	R	R W
Tray Height	Tray Type	Vertical 90 Degree Inside Bend	Vertical 90 Degree Outside Bend	Vertical 60 Degree Inside Bend	Vertical 60 Degree Outside Bend
	A(L)IJA	-(W)VI90-(R)()	-(W)VO90-(R)()	-(W)VI60-(R)()	-(W)VO60-(R)()
	A(L)IJB	-(W)VI90-(R)()	-(W)VO90-(R)()	-(W)VI60-(R)()	-(W)VO60-(R)()
	A(L)IJC	-(W)VI90-(R)()	-(W)VO90-(R)()	-(W)VI60-(R)()	-(W)VO60-(R)()
4.5"	A(L)IJD	-(W)VI90-(R)()	-(W)VO90-(R)()	-(W)VI60-(R)()	-(W)VO60-(R)()
	A(L)IYA	-(W)VI90-(R)()	-(W)VO90-(R)()	-(W)VI60-(R)()	-(W)VO60-(R)()
	A(L)IYB	-(W)VI90-(R)()	-(W)VO90-(R)()	-(W)VI60-(R)()	-(W)VO60-(R)()
	A(L)IYC	-(W)VI90-(R)()	-(W)VO90-(R)()	-(W)VI60-(R)()	-(W)VO60-(R)()
	A(L)IJC5	-(W)VI90-(R)()	-(W)VO90-(R)()	-(W)VI60-(R)()	-(W)VO60-(R)()
5"	A(L)IYB5	-(W)VI90-(R)()	-(W)VO90-(R)()	-(W)VI60-(R)()	-(W)VO60-(R)()
	A(L)IYC5	-(W)VI90-(R)()	-(W)VO90-(R)()	-(W)VI60-(R)()	-(W)VO60-(R)()
	A(L)IMB	-(W)VI90-(R)()	-(W)VO90-(R)()	-(W)VI60-(R)()	-(W)VO60-(R)()
	A(L)IMC	-(W)VI90-(R)()	-(W)VO90-(R)()	-(W)VI60-(R)()	-(W)VO60-(R)()
	A(L)IMD	-(W)VI90-(R)()	-(W)VO90-(R)()	-(W)VI60-(R)()	-(W)VO60-(R)()
6"	A(L)IXA	-(W)VI90-(R)()	-(W)VO90-(R)()	-(W)VI60-(R)()	-(W)VO60-(R)()
0	A(L)IXB	-(W)VI90-(R)()	-(W)VO90-(R)()	-(W)VI60-(R)()	-(W)VO60-(R)()
	A(L)IXC	-(W)VI90-(R)()	-(W)VO90-(R)()	-(W)VI60-(R)()	-(W)VO60-(R)()
	A(L)IXD	-(W)VI90-(R)()	-(W)VO90-(R)()	-(W)VI60-(R)()	-(W)VO60-(R)()
	A(L) I6	-(W)VI90-(R)()	-(W)VO90-(R)()	-(W)VI60-(R)()	-(W)VO60-(R)()
	A(L)IMC7	-(W)VI90-(R)()	-(W)VO90-(R)()	-(W)VI60-(R)()	-(W)VO60-(R)()
7"	A(L)IXC7	-(W)VI90-(R)()	-(W)VO90-(R)()	-(W)VI60-(R)()	-(W)VO60-(R)()
	A(L)IXD7	-(W)VI90-(R)()	-(W)VO90-(R)()	-(W)VI60-(R)()	-(W)VO60-(R)()
8''	A(L) I8	-(W)VI90-(R)()	-(W)VO90-(R)()	-(W)VI60-(R)()	-(W)VO60-(R)()

(L) =Ladder (Rung Spacing 9" for all I-Beam Fittings *(Except 16 & 18* are 12" Rung Spacing)), (S) for Solid Bottom Trough (Rung Spacing 12" with Corrugation (6" - 24" Wide), Bump Bottom (06C) *** or Flat Bottom (F04) *** (6" - 36" Wide) between the rungs), () Blank for Ventilated Trough (Rung Spacing 12" with Corrugation (6" - 24" Wide), or Flat Perf. Bottom (F04) *** (6" - 36" Wide) between the rungs) or (4) for 4" Rung Spacing on (6" - 36" Wide) Ventilated Trough Fittings. (W) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

(R) = Radius (12, 18, 24, 36, or 48) denotes desired Radius (in)

() = Blank for standard Zinc-Plated Hardware, (-6S) for 316 Stainless Steel or (-SB) for Silicon Bronze

ALI6 and ALI8 Fittings have 5" tangents. All other Fittings have 0" tangents.

***Requires the (-F04) or (-06C) suffix

Examples: ALIJC-12VI90-24 (Ladder, 12" wide Vertical Inside 90 Degree Bend with 24" radius with standard Zinc-Plated Hardware) AIJC-24VO90-12-6S (Ventilated Trough, 24" wide Vertical Outside 90 Degree Bend with 12" radius with 316 Stainless Steel Hardware) ASIJC-18VI60-36-SB (Solid Bottom Trough, 18" wide Vertical Inside 60 Degree Bend with 36" radius with Silicon Bronze Hardware)

I-BEAM FITTINGS

TRAY FITTINGS - VERTICAL 45 & 30 DEGREE BENDS

		R W	W line, R	R HILL R W	W
Tray Height	Tray Type	Vertical 45 Degree Inside Bend	Vertical 45 Degree Outside Bend	Vertical 30 Degree Inside Bend	Vertical 30 Degree Outside Bend
	A(L)IJA	-(W)VI45-(R)()	-(W)VO45-(R)()	-(W)VI30-(R)()	-(W)VO30-(R)()
	A(L)IJB	-(W)VI45-(R)()	-(W)VO45-(R)()	-(W)VI30-(R)()	-(W)VO30-(R)()
	A(L)IJC	-(W)VI45-(R)()	-(W)VO45-(R)()	-(W)VI30-(R)()	-(W)VO30-(R)()
4.5"	A(L)IJD	-(W)VI45-(R)()	-(W)VO45-(R)()	-(W)VI30-(R)()	-(W)VO30-(R)()
	A(L)IYA	-(W)VI45-(R)()	-(W)VO45-(R)()	-(W)VI30-(R)()	-(W)VO30-(R)()
	A(L)IYB	-(W)VI45-(R)()	-(W)VO45-(R)()	-(W)VI30-(R)()	-(W)VO30-(R)()
	A(L)IYC	-(W)VI45-(R)()	-(W)VO45-(R)()	-(W)VI30-(R)()	-(W)VO30-(R)()
	A(L)IJC5	-(W)VI45-(R)()	-(W)VO45-(R)()	-(W)VI30-(R)()	-(W)VO30-(R)()
5"	A(L)IYB5	-(W)VI45-(R)()	-(W)VO45-(R)()	-(W)VI30-(R)()	-(W)VO30-(R)()
	A(L)IYC5	-(W)VI45-(R)()	-(W)VO45-(R)()	-(W)VI30-(R)()	-(W)VO30-(R)()
	A(L)IMB	-(W)VI45-(R)()	-(W)VO45-(R)()	-(W)VI30-(R)()	-(W)VO30-(R)()
	A(L)IMC	-(W)VI45-(R)()	-(W)VO45-(R)()	-(W)VI30-(R)()	-(W)VO30-(R)()
	A(L)IMD	-(W)VI45-(R)()	-(W)VO45-(R)()	-(W)VI30-(R)()	-(W)VO30-(R)()
6"	A(L)IXA	-(W)VI45-(R)()	-(W)VO45-(R)()	-(W)VI30-(R)()	-(W)VO30-(R)()
U	A(L)IXB	-(W)VI45-(R)()	-(W)VO45-(R)()	-(W)VI30-(R)()	-(W)VO30-(R)()
	A(L)IXC	-(W)VI45-(R)()	-(W)VO45-(R)()	-(W)VI30-(R)()	-(W)VO30-(R)()
	A(L)IXD	-(W)VI45-(R)()	-(W)VO45-(R)()	-(W)VI30-(R)()	-(W)VO30-(R)()
	A(L) I6	-(W)VI45-(R)()	-(W)VO45-(R)()	-(W)VI30-(R)()	-(W)VO30-(R)()
	A(L)IMC7	-(W)VI45-(R)()	-(W)VO45-(R)()	-(W)VI30-(R)()	-(W)VO30-(R)()
7"	A(L)IXC7	-(W)VI45-(R)()	-(W)VO45-(R)()	-(W)VI30-(R)()	-(W)VO30-(R)()
	A(L)IXD7	-(W)VI45-(R)()	-(W)VO45-(R)()	-(W)VI30-(R)()	-(W)VO30-(R)()
8"	A(L) I8	-(W)VI45-(R)()	-(W)VO45-(R)()	-(W)VI30-(R)()	-(W)VO30-(R)()

(L) =Ladder (Rung Spacing 9" for all I-Beam Fittings *(Except 16 & 18* are 12" Rung Spacing)), (S) for Solid Bottom Trough (Rung Spacing 12" with Corrugation (6" - 24" Wide), Bump Bottom (06C) *** or Flat Bottom (F04) *** (6" - 36" Wide) between the rungs), () Blank for Ventilated Trough (Rung Spacing 12" with Corrugation (6" - 24" Wide), or Flat Perf. Bottom (F04) *** (6" - 36" Wide) between the rungs) or (4) for 4" Rung Spacing on (6" - 36" Wide) Ventilated Trough Fittings.

(W) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

(R) = Insert Radius (12, 18, 24, 36, or 48) denotes desired Radius (in)

() = Blank for standard Zinc-Plated Hardware, (-6S) for 316 Stainless Steel or (-SB) for Silicon Bronze

ALI6 and ALI8 Fittings have 5" tangents. All other Fittings have 0" tangents.

***Requires the (-F04) or (-06C) suffix

Examples: ALIJC-12VI45-24 (Ladder, 12" wide Vertical Inside 45 Degree Bend with 24" radius with standard Zinc-Plated Hardware)

AIJC-24VO45-12-6S (Ventilated Trough, 24" wide Vertical Outside 45 Degree Bend with 12" radius with 316 Stainless Steel Hardware) ASIJC-18VI30-36-SB (Solid Bottom Trough, 18" wide Vertical Inside 30 Degree Bend with 36" radius with Silicon Bronze Hardware)

I-BEAM FITTINGS

TRAY FITTINGS - TEES

		W R W	W R W1	W R W1
Tray Height	Tray Type	Horizontal Tee	Horizontal Reducing Tee	Horizontal Enlarging Tee
	A(L)IJA	-(W)T-(R)()	-(W)T(W1)-(R)()	-(W)T(W1)-(R)()
	A(L)IJB	-(W)T-(R)()	-(W)T(W1)-(R)()	-(W)T(W1)-(R)()
	A(L)IJC	-(W)T-(R)()	-(W)T(W1)-(R)()	-(W)T(W1)-(R)()
4.5"	A(L)IJD	-(W)T-(R)()	-(W)T(W1)-(R)()	-(W)T(W1)-(R)()
	A(L)IYA	-(W)T-(R)()	-(W)T(W1)-(R)()	-(W)T(W1)-(R)()
	A(L)IYB	-(W)T-(R)()	-(W)T(W1)-(R)()	-(W)T(W1)-(R)()
	A(L)IYC	-(W)T-(R)()	-(W)T(W1)-(R)()	-(W)T(W1)-(R)()
	A(L)IJC5	-(W)T-(R)()	-(W)T(W1)-(R)()	-(W)T(W1)-(R)()
5"	A(L)IYB5	-(W)T-(R)()	-(W)T(W1)-(R)()	-(W)T(W1)-(R)()
	A(L)IYC5	-(W)T-(R)()	-(W)T(W1)-(R)()	-(W)T(W1)-(R)()
	A(L)IMB	-(W)T-(R)()	-(W)T(W1)-(R)()	-(W)T(W1)-(R)()
	A(L)IMC	-(W)T-(R)()	-(W)T(W1)-(R)()	-(W)T(W1)-(R)()
	A(L)IMD	-(W)T-(R)()	-(W)T(W1)-(R)()	-(W)T(W1)-(R)()
6"	A(L)IXA	-(W)T-(R)()	-(W)T(W1)-(R)()	-(W)T(W1)-(R)()
Ŭ	A(L)IXB	-(W)T-(R)()	-(W)T(W1)-(R)()	-(W)T(W1)-(R)()
	A(L) IXC	-(W)T-(R)()	-(W)T(W1)-(R)()	-(W)T(W1)-(R)()
	A(L)IXD	-(W)T-(R)()	-(W)T(W1)-(R)()	-(W)T(W1)-(R)()
	A(L) I6	-(W)T-(R)()	-(W)T(W1)-(R)()	-(W)T(W1)-(R)()
	A(L)IMC7	-(W)T-(R)()	-(W)T(W1)-(R)()	-(W)T(W1)-(R)()
7"	A(L)IXC7	-(W)T-(R)()	-(W)T(W1)-(R)()	-(W)T(W1)-(R)()
	A(L)IXD7	-(W)T-(R)()	-(W)T(W1)-(R)()	-(W)T(W1)-(R)()
8''	A(L) I8	-(W)T-(R)()	-(W)T(W1)-(R)()	-(W)T(W1)-(R)()

(L) = Ladder (Rung Spacing 9" for all I-Beam Fittings *(Except 16 & 18* are 12" Rung Spacing)), (S) for Solid Bottom Trough (Rung Spacing 12" with Corrugation (6" - 24" Wide), Bump Bottom (06C) *** or Flat Bottom (F04) *** (6" - 36" Wide) between the rungs), () Blank for Ventilated Trough (Rung Spacing 12" with Corrugation (6" - 24" Wide), or Flat Perf. Bottom (F04) *** (6" - 36" Wide) between the rungs) or (4) for 4" Rung Spacing on (6" - 36" Wide) Ventilated Trough Fittings. (W) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

(W1) = Second Width (6, 9, 12, 18, 24, 30, or 36) denotes desired what (iii) (W1) = Second Width (6, 9, 12, 18, 24, 30, or 36) denotes desired second Width (in)

(R) = Radius (12, 18, 24, 36, or 48) denotes desired Radius (in)

() = Blank for standard Zinc-Plated Hardware, (-6S) for 316 Stainless Steel or (-SB) for Silicon Bronze

ALI6 and ALI8 Fittings have 5" tangents. All other Fittings have 0" tangents.

***Requires the (-F04) or (-06C) suffix

Examples: ALIJC-12T-24 (Ladder, 12" wide Horizontal Tee with 24" radius with standard Zinc-Plated Hardware)

AIJC-24T-12-6S (Ventilated Trough, 24" wide Horizontal Tee with 12" radius with 316 Stainless Steel Hardware)

ASIJC-18T-36-SB (Solid Bottom Trough, 18" wide Horizontal Tee with 36" radius with Silicon Bronze Hardware)

I-BEAM FITTINGS

mphusky

TRAY FITTINGS - CROSSES

		W R W	W R W1	W R W1
Tray Height	Tray Type	Horizontal Cross	Horizontal Reducing Cross	Horizontal Enlarging Cross
	A(L)IJA	-(W)X-(R)()	-(W)X(W1)-(R)()	-(W)X(W1)-(R)()
	A(L)IJB	-(W)X-(R)()	-(W)X(W1)-(R)()	-(W)X(W1)-(R)()
	A(L)IJC	-(W)X-(R)()	-(W)X(W1)-(R)()	-(W)X(W1)-(R)()
4.5"	A(L)IJD	-(W)X-(R)()	-(W)X(W1)-(R)()	-(W)X(W1)-(R)()
	A(L)IYA	-(W)X-(R)()	-(W)X(W1)-(R)()	-(W)X(W1)-(R)()
	A(L)IYB	-(W)X-(R)()	-(W)X(W1)-(R)()	-(W)X(W1)-(R)()
	A(L)IYC	-(W)X-(R)()	-(W)X(W1)-(R)()	-(W)X(W1)-(R)()
	A(L)IJC5	-(W)X-(R)()	-(W)X(W1)-(R)()	-(W)X(W1)-(R)()
5''	A(L)IYB5	-(W)X-(R)()	-(W)X(W1)-(R)()	-(W)X(W1)-(R)()
	A(L)IYC5	-(W)X-(R)()	-(W)X(W1)-(R)()	-(W)X(W1)-(R)()
	A(L)IMB	-(W)X-(R)()	-(W)X(W1)-(R)()	-(W)X(W1)-(R)()
	A(L)IMC	-(W)X-(R)()	-(W)X(W1)-(R)()	-(W)X(W1)-(R)()
	A(L)IMD	-(W)X-(R)()	-(W)X(W1)-(R)()	-(W)X(W1)-(R)()
6"	A(L)IXA	-(W)X-(R)()	-(W)X(W1)-(R)()	-(W)X(W1)-(R)()
U	A(L)IXB	-(W)X-(R)()	-(W)X(W1)-(R)()	-(W)X(W1)-(R)()
	A(L)IXC	-(W)X-(R)()	-(W)X(W1)-(R)()	-(W)X(W1)-(R)()
	A(L)IXD	-(W)X-(R)()	-(W)X(W1)-(R)()	-(W)X(W1)-(R)()
	A(L) I6	-(W)X-(R)()	-(W)X(W1)-(R)()	-(W)X(W1)-(R)()
	A(L)IMC7	-(W)X-(R)()	-(W)X(W1)-(R)()	-(W)X(W1)-(R)()
7"	A(L)IXC7	-(W)X-(R)()	-(W)X(W1)-(R)()	-(W)X(W1)-(R)()
	A(L)IXD7	-(W)X-(R)()	-(W)X(W1)-(R)()	-(W)X(W1)-(R)()
8''	A(L) I8	-(W)X-(R)()	-(W)X(W1)-(R)()	-(W)X(W1)-(R)()

(L) =Ladder (Rung Spacing 9" for all I-Beam Fittings (Except 16 & 18 are 12" Rung Spacing)), (S) for Solid Bottom Trough (Rung Spacing 12" with Corrugation (6" - 24" Wide), Bump Bottom (06C) *** or Flat Bottom (F04) *** (6" - 36" Wide) between the rungs), () Blank for Ventilated Trough (Rung Spacing 12" with Corrugation (6" - 24" Wide), or Flat Perf. Bottom (F04)*** (6" - 36" Wide) between the rungs) or (4) for 4" Rung Spacing on (6" - 36" Wide) Ventilated Trough Fittings.

(W) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

(W1) = Second Width (6, 9, 12, 18, 24, 30, or 36) denotes desired second Width (in)

(R) = Insert Radius (12, 18, 24, 36, or 48) denotes desired Radius (in)

() = Blank for standard Zinc-Plated Hardware, (-6S) for 316 Stainless Steel or (-SB) for Silicon Bronze

ALI6 and ALI8 Fittings have 5" tangents. All other Fittings have 0" tangents. ***Requires the (-F04) or (-06C) suffix

Examples: ALIJC-12X-24 (Ladder, 12" wide Horizontal Cross with 24" radius with standard Zinc-Plated Hardware)

AIJC-24X6-12-6S (Ventilated Trough, 24" wide to 6" wide Horizontal Reducing Cross with 12" radius with 316 Stainless Steel Hardware) ASIJC-18X36-36-SB (Solid Bottom Trough, 18" wide to 36" wide Horizontal Enlarging Cross with 36" radius with Silicon Bronze Hardware)

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I-BEAM FITTINGS

TRAY FITTINGS - REDUCERS

		LENGTH = 12"	LENGTH = 12"	LENGTH = 12"
		W W1	W W W1	W W W1
Tray Height	Tray Type	Straight Reducer (Concentric)	Right Hand Reducer (Eccentric)	Left Hand Reducer (Eccentric)
	A(L)IJA	-(W)R(W1)()	-(W)RR(W1)()	-(W)RL(W1)()
	A(L)IJB	-(W)R(W1)()	-(W)RR(W1)()	-(W)RL(W1)()
	A(L)IJC	-(W)R(W1)()	-(W)RR(W1)()	-(W)RL(W1)()
4.5"	A(L)IJD	-(W)R(W1)()	-(W)RR(W1)()	-(W)RL(W1)()
	A(L)IYA	-(W)R(W1)()	-(W)RR(W1)()	-(W)RL(W1)()
	A(L)IYB	-(W)R(W1)()	-(W)RR(W1)()	-(W)RL(W1)()
	A(L)IYC	-(W)R(W1)()	-(W)RR(W1)()	-(W)RL(W1)()
	A(L)IJC5	-(W)R(W1)()	-(W)RR(W1)()	-(W)RL(W1)()
5''	A(L)IYB5	-(W)R(W1)()	-(W)RR(W1)()	-(W)RL(W1)()
	A(L)IYC5	-(W)R(W1)()	-(W)RR(W1)()	-(W)RL(W1)()
	A(L)IMB	-(W)R(W1)()	-(W)RR(W1)()	-(W)RL(W1)()
	A(L)IMC	-(W)R(W1)()	-(W)RR(W1)()	-(W)RL(W1)()
	A(L)IMD	-(W)R(W1)()	-(W)RR(W1)()	-(W)RL(W1)()
6"	A(L)IXA	-(W)R(W1)()	-(W)RR(W1)()	-(W)RL(W1)()
U	A(L)IXB	-(W)R(W1)()	-(W)RR(W1)()	-(W)RL(W1)()
	A(L)IXC	-(W)R(W1)()	-(W)RR(W1)()	-(W)RL(W1)()
	A(L)IXD	-(W)R(W1)()	-(W)RR(W1)()	-(W)RL(W1)()
	A(L) I6	-(W)R(W1)()	-(W)RR(W1)()	-(W)RL(W1)()
	A(L)IMC7	-(W)R(W1)()	-(W)RR(W1)()	-(W)RL(W1)()
7"	A(L)IXC7	-(W)R(W1)()	-(W)RR(W1)()	-(W)RL(W1)()
	A(L)IXD7	-(W)R(W1)()	-(W)RR(W1)()	-(W)RL(W1)()
8"	A(L) I8	-(W)R(W1)()	-(W)RR(W1)()	-(W)RL(W1)()

(L) =Ladder (Rung Spacing 9" for all I-Beam Fittings (*Except 16 & 18* are 12" Rung Spacing)), (S) for Solid Bottom Trough (Rung Spacing 12" with Corrugation (6" - 24" Wide), Bump Bottom (06C) *** or Flat Bottom (F04) *** (6" - 36" Wide) between the rungs), () Blank for Ventilated Trough (Rung Spacing 12" with Corrugation (6" - 24" Wide), or Flat Perf. Bottom (F04) *** (6" - 36" Wide) between the rungs) or (4) for 4" Rung Spacing on (6" - 36" Wide) Ventilated Trough Fittings.

(W) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

(W1) = Second Width (6, 9, 12, 18, 24, 30, or 36) denotes desired second Width (in)

() = Blank for standard Zinc-Plated Hardware, (-6S) for 316 Stainless Steel or (-SB) for Silicon Bronze

ALI6 and ALI8 Reducer Fittings are 24" long. Other I-Beam Reducers are 12" long

***Requires the (-F04) or (-06C) suffix

Examples: ALIJC-12R6 (Ladder, 12" wide to 6" wide Straight Reducer with standard Zinc-Plated Hardware)

AIJC-24RR12-6S (Ventilated Trough, 24" wide to 12" wide Right Hand Reducer with 316 Stainless Steel Hardware)

ASIJC-18RL9-6B (Solid Bottom Trough, 18" wide to 9" wide Left Hand Reducer with Silicon Bronze Hardware)

I-BEAM FITTINGS

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TRAY FITTINGS - VERTICAL TEES

		W	R	
Tray Height	Tray Type	Vertical Tee Turns Down	Vertical Tee Turns Up	
4.5"	A(L)IJA	-(W)VT-(R)()	-(W)VTU-(R)()	
	A(L)IJB	-(W)VT-(R)()	-(W)VTU-(R)()	
	A(L)IJC	-(W)VT-(R)()	-(W)VTU-(R)()	
	A(L)IJD	-(W)VT-(R)()	-(W)VTU-(R)()	
	A(L)IYA	-(W)VT-(R)()	-(W)VTU-(R)()	
	A(L)IYB	-(W)VT-(R)()	-(W)VTU-(R)()	
	A(L)IYC	-(W)VT-(R)()	-(W)VTU-(R)()	
5"	A(L)IJC5	-(W)VT-(R)()	-(W)VTU-(R)()	
	A(L)IYB5	-(W)VT-(R)()	-(W)VTU-(R)()	
	A(L)IYC5	-(W)VT-(R)()	-(W)VTU-(R)()	
6''	A(L)IMB	-(W)VT-(R)()	-(W)VTU-(R)()	
	A(L)IMC	-(W)VT-(R)()	-(W)VTU-(R)()	
	A(L)IMD	-(W)VT-(R)()	-(W)VTU-(R)()	
	A(L) IXA	-(W)VT-(R)()	-(W)VTU-(R)()	
	A(L)IXB	-(W)VT-(R)()	-(W)VTU-(R)()	
	A(L) IXC	-(W)VT-(R)()	-(W)VTU-(R)()	
	A(L)IXD	-(W)VT-(R)()	-(W)VTU-(R)()	
	A(L) I6	-(W)VT-(R)()	-(W)VTU-(R)()	
	A(L)IMC7	-(W)VT-(R)()	-(W)VTU-(R)()	
7''	A(L)IXC7	-(W)VT-(R)()	-(W)VTU-(R)()	
	A(L)IXD7	-(W)VT-(R)()	-(W)VTU-(R)()	
8" A(L)I8		-(W)VT-(R)()	-(W)VTU-(R)()	

(L) =Ladder (Rung Spacing 9" for all I-Beam Fittings (*Except 16 & 18* are 12" Rung Spacing)), (S) for Solid Bottom Trough (Rung Spacing 12" with Corrugation (6" - 24" Wide), Bump Bottom (06C) *** or Flat Bottom (F04) *** (6" - 36" Wide) between the rungs), () Blank for Ventilated Trough (Rung Spacing 12" with Corrugation (6" - 24" Wide), or Flat Perf. Bottom (F04) *** (6" - 36" Wide) between the rungs) or (4) for 4" Rung Spacing on (6" - 36" Wide) Ventilated Trough Fittings. (W) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

(R) = Radius (12, 18, 24, 36, or 48) denotes desired Radius (in)

() = Blank for standard Zinc-Plated Hardware, (-6S) for 316 Stainless Steel or (-SB) for Silicon Bronze

ALI6 and ALI8 Fittings have 5" tangents. All other Fittings have 0" tangents.

***Requires the (-F04) or (-06C) suffix

Examples: ALIJC-12VT-24 (Ladder, 12" wide Vertical Tee with 24" radius with standard Zinc-Plated Hardware) AIJC-24VT-12-6S (Ventilated Trough, 24" wide Vertical Tee with 12" radius with 316 Stainless Steel Hardware)

ASIJC-18VTU-36-SB (Solid Bottom Trough, 18" wide Vertical Tee Up with 36" radius with Silicon Bronze Hardware)

I-BEAM FITTINGS

TRAY FITTINGS - VERTICAL SUPPORT ELBOWS & VERTICAL CROSSES

		SH-38 W R Order SH-38 Separately SH-38	R		
Tray Tray Height Type		Vertical Support 90 Fitting	Vertical Cross		
4.5"	A(L)IJA	-(W)VS-(R)()	-(W)VX-(R)()		
	A(L)IJB	-(W)VS-(R)()	-(W)VX-(R)()		
	A(L)IJC	-(W)VS-(R)()	-(W)VX-(R)()		
	A(L)IJD	-(W)VS-(R)()	-(W)VX-(R)()		
	A(L)IYA	-(W)VS-(R)()	-(W)VX-(R)()		
	A(L)IYB	-(W)VS-(R)()	-(W)VX-(R)()		
	A(L)IYC	-(W)VS-(R)()	-(W)VX-(R)()		
5"	A(L)IJC5	-(W)VS-(R)()	-(W)VX-(R)()		
	A(L)IYB5	-(W)VS-(R)()	-(W)VX-(R)()		
	A(L)IYC5	-(W)VS-(R)()	-(W)VX-(R)()		
6"	A(L)IMB	-(W)VS-(R)()	-(W)VX-(R)()		
	A(L)IMC	-(W)VS-(R)()	-(W)VX-(R)()		
	A(L)IMD	-(W)VS-(R)()	-(W)VX-(R)()		
	A(L) IXA	-(W)VS-(R)()	-(W)VX-(R)()		
	A(L)IXB	-(W)VS-(R)()	-(W)VX-(R)()		
	A(L)IXC	-(W)VS-(R)()	-(W)VX-(R)()		
	A(L)IXD	-(W)VS-(R)()	-(W)VX-(R)()		
	A(L) I6	-(W)VS-(R)()	-(W)VX-(R)()		
7"	A(L)IMC7	-(W)VS-(R)()	-(W)VX-(R)()		
	A(L)IXC7	-(W)VS-(R)()	-(W)VX-(R)()		
	A(L)IXD7	-(W)VS-(R)()	-(W)VX-(R)()		
8" A(L)I8		-(W)VS-(R)()	-(W)VX-(R)()		

(L) = Ladder (Rung Spacing 9" for all I-Beam Fittings *(Except 16 & 18* are 12" Rung Spacing)), (S) for Solid Bottom Trough (Rung Spacing 12" with Corrugation (6" - 24" Wide), Bump Bottom (06C) *** or Flat Bottom (F04) *** (6" - 36" Wide) between the rungs), () Blank for Ventilated Trough (Rung Spacing 12" with Corrugation (6" - 24" Wide), or Flat Perf. Bottom (F04) *** (6" - 36" Wide) between the rungs) or (4) for 4" Rung Spacing on (6" - 36" Wide) Ventilated Trough Fittings.

(W) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

(R) = Radius (12, 18, 24, 36, or 48) denotes desired Radius (in)

() = Blank for standard Zinc-Plated Hardware, (-6S) for 316 Stainless Steel or (-SB) for Silicon Bronze

ALI6 and ALI8 Fittings have 5" tangents. All other Fittings have 0" tangents.

***Requires the (-F04) or (-06C) suffix

Examples: ALIJC-12VX-24 (Ladder, 12" wide Vertical Cross with 24" radius with standard Zinc-Plated Hardware) AIJC-24VX-12-6S (Ventilated Trough, 24" wide Vertical Cross with 12" radius with 316 Stainless Steel Hardware) ASIJC-18VX-36-SB (Solid Bottom Trough, 18" wide Vertical Cross with 36" radius with Silicon Bronze Hardware)

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I-BEAM FITTINGS

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ALTERNATE FITTING SUPPORT LOCATIONS

Diagrammed below are fitting support locations as tested with specially-constructed NEMA 20C cable tray fittings as an alternate to the support locations diagrammed in NEMA VE-2. *Please consult the factory at time of quote if you intend to support the fittings in this manner.*





I-BEAM CABLE TRAY ACCESSORIES & SUPPORTS

Manufactured & Tested In Accordance With NEMA VE-1

Classified By UL As An Equipment Grounding Conductor

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ACCESSORIES & SUPPORTS

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ACCESSORIES - SPLICE CONNECTORS

		ASP-H2 ASP-M2			OUTSIDE	
Tray Height	Tray Type	Standard Splice Kit	Expansion Splice Kit	90 Degree Splice	Horizontal Hinge Splice Kit	Vertical Hinge Splice Kit
4.5"	A(L)IJA	ASP-H2()-K	ASP-4-EX()-K	ASP-4-90()	AFS-H4()-K	AFS-V4()-K
	A(L)IJB	ASP-H2()-K	ASP-4-EX()-K	ASP-4-90()	AFS-H4()-K	AFS-V4()-K
	A(L)IJC	ASP-H2()-K	ASP-4-EX()-K	ASP-4-90()	AFS-H4()-K	AFS-V4()-K
	A(L)IJD	ASP-H2()-K	ASP-4-EX()-K	ASP-4-90()	AFS-H4()-K	AFS-V4()-K
	A(L)IYA	ASP-H6()-K	ASP-4-EX()-K	ASP-4-90()	AFS-H4()-K	AFS-V4()-K
	A(L)IYB	ASP-H6()-K	ASP-4-EX()-K	ASP-4-90()	AFS-H4()-K	AFS-V4()-K
	A(L)IYC	ASP-H6()-K	ASP-4-EX()-K	ASP-4-90()	AFS-H4()-K	AFS-V4()-K
5"	A(L)IJC5	ASP-H2()-K	ASP-4-EX()-K	ASP-4-90()	AFS-H4()-K	AFS-V4()-K
	A(L)IYB5	ASP-H6()-K	ASP-4-EX()-K	ASP-4-90()	AFS-H4()-K	AFS-V4()-K
	A(L)IYC5	ASP-H6()-K	ASP-4-EX()-K	ASP-4-90()	AFS-H4()-K	AFS-V4()-K
6''	A(L)IMB	ASP-M2()-K	ASP-6-EX()-K	ASP-6-90()	AFS-H6()-K	AFS-V6()-K
	A(L)IMC	ASP-M2()-K	ASP-6-EX()-K	ASP-6-90()	AFS-H6()-K	AFS-V6()-K
	A(L)IMD	ASP-M2()-K	ASP-6-EX()-K	ASP-6-90()	AFS-H6()-K	AFS-V6()-K
	A(L)IXA	ASP-M2()-K	ASP-6-EX()-K	ASP-6-90()	AFS-H6()-K	AFS-V6()-K
	A(L)IXB	ASP-M2()-K	ASP-6-EX()-K	ASP-6-90()	AFS-H6()-K	AFS-V6()-K
	A(L)IXC	ASP-M2()-K	ASP-6-EX()-K	ASP-6-90()	AFS-H6()-K	AFS-V6()-K
	A(L)IXD	ASP-M2()-K	ASP-6-EX()-K	ASP-6-90()	AFS-H6()-K	AFS-V6()-K
	A(L) I6	ASP-E2()-K	ASP-I6-EX()-K	ASP-I6-90()	AFS-HI6()-K	AFS-VI6()-K
7"	A(L)IMC7	ASP-M2()-K	ASP-6-EX()-K	ASP-6-90()	AFS-H6()-K	AFS-V6()-K
	A(L)IXC7	ASP-M2()-K	ASP-6-EX()-K	ASP-6-90()	AFS-H6()-K	AFS-V6()-K
	A(L)IXD7	ASP-M2()-K	ASP-6-EX()-K	ASP-6-90()	AFS-H6()-K	AFS-V6()-K
8''	A(L) I8	ASP-I8()-K	ASP-I8-EX()-K	ASP-I8-90()	AFS-HI8()-K	AFS-VI8()-K

-K = Kitted Hardware and Splice
ACCESSORIES & SUPPORTS

ACCESSORIES - SPLICES, DROPOUTS, END PLATES & BOX CONNECTORS

		OFFSET	1-3/4" R	3 PIECE CONSTRUCTION	
Tray Height	Tray Type	Offset Reducing Splice	Dropout	End Plate	Box Connector
	A(L)IJA	ASP-HOR-(OFF)()	AVD-(W)()	AEP-(W)-4-1/2()	AVBC-(W)-4-1/2()
	A(L)IJB	ASP-HOR-(OFF)()	AVD-(W)()	AEP-(W)-4-1/2()	AVBC-(W)-4-1/2()
	A(L)IJC	ASP-HOR-(OFF)()	AVD-(W)-XA()	AEP-(W)-4-1/2()	AVBC-(W)-4-1/2()
4.5"	A(L)IJD	ASP-HOR-(OFF)()	AVD-(W)-XA()	AEP-(W)-4-1/2()	AVBC-(W)-4-1/2()
	A(L)IYA	ASP-HOR-(OFF)()	AVD-(W)-YA()	AEP-(W)-4-1/2()	AVBC-(W)-4-1/2()
	A(L)IYB	ASP-HOR-(OFF)()	AVD-(W)-YA()	AEP-(W)-4-1/2()	AVBC-(W)-4-1/2()
	A(L)IYC	ASP-HOR-(OFF)()	AVD-(W)-YA()	AEP-(W)-4-1/2()	AVBC-(W)-4-1/2()
	A(L)IJC5	ASP-HOR-(OFF)()	AVD-(W)-YA()	AEP-(W)-5()	AVBC-(W)-5()
5''	A(L)IYB5	ASP-HOR-(OFF)()	AVD-(W)-YA()	AEP-(W)-5()	AVBC-(W)-5()
	A(L)IYC5	ASP-HOR-(OFF)()	AVD-(W)-YA()	AEP-(W)-5()	AVBC-(W)-5()
	A(L)IMB	ASP-XOR-(OFF)()	AVD-(W)-YA()	AEP-(W)-6()	AVBC-(W)-6()
	A(L)IMC	ASP-XOR-(OFF)()	AVD-(W)-YA()	AEP-(W)-6()	AVBC-(W)-6()
	A(L)IMD	ASP-XOR-(OFF)()	AVD-(W)-YA()	AEP-(W)-6()	AVBC-(W)-6()
6"	A(L) IXA	ASP-XOR-(OFF)()	AVD-(W)-YA()	AEP-(W)-6()	AVBC-(W)-6()
U	A(L)IXB	ASP-XOR-(OFF)()	AVD-(W)-YA()	AEP-(W)-6()	AVBC-(W)-6()
	A(L)IXC	ASP-XOR-(OFF)()	AVD-(W)-YA()	AEP-(W)-6()	AVBC-(W)-6()
	A(L)IXD	ASP-XOR-(OFF)()	AVD-(W)-YA()	AEP-(W)-6()	AVBC-(W)-6()
	A(L) I6	ASP-I6OR-(OFF)()	AVD-(W)-X()	AEP-(W)-I6()	AVBC-(W)-I6()
7"	A(L)IMC7	ASP-XOR-(OFF)()	AVD-(W)-YA()	AEP-(W)-7()	AVBC-(W)-7()
	A(L)IXC7	ASP-XOR-(OFF)()	AVD-(W)-YA()	AEP-(W)-7()	AVBC-(W)-7()
	A(L)IXD7	ASP-XOR-(OFF)()	AVD-(W)-YA()	AEP-(W)-7()	AVBC-(W)-7()
8''	A(L) I8	ASP-I8OR-(OFF)()	AVD-(W)-YA()	AEP-(W)-I8()	AVBC-(W)-I8()
(W) = Width	(6, 9, 12, 18, 24, 3	0, or 36) denotes desired Wig	dth (in).		

(OFF) Offset in inches Example: ASP-HOR-4-1/2 () = Blank for standard Zinc-Plated Hardware, (-6S) for 316 Stainless Steel, or (-SB) for Silicon Bronze

ACCESSORIES & SUPPORTS

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ACCESSORIES - SEPARATORS & HOLD DOWN/EXPANSION CLAMPS

				R	R	HOLD DOWN
Tray Height	Tray Type	Straight Separator (Aluminum)	Horizontal Bend Separator (Aluminum)	Vertical Inside Bend Separator (Aluminum)	Vertical Outside Bend Separator (Aluminum)	Hold Down/ Expansion Clamp (Zinc-Plated)
	A(L)IJA	A3S-(L)()	A3S-HA()	A3V-VI(D)-(R)()	A3V-VO(D)-(R)()	SHDEC
	A(L)IJB	A3S-(L)()	A3S-HA()	A3V-VI(D)-(R)()	A3V-VO(D)-(R)()	SHDEC
	A(L)IJC	A3S-(L)()	A3S-HA()	A3V-VI(D)-(R)()	A3V-VO(D)-(R)()	SHDEC
4.5"	A(L)IJD	A3S-(L)()	A3S-HA()	A3V-VI(D)-(R)()	A3V-VO(D)-(R)()	SHDEC
	A(L)IYA	A3S-(L)()	A3S-HA()	A3V-VI(D)-(R)()	A3V-VO(D)-(R)()	SHDEC
	A(L)IYB	A3S-(L)()	A3S-HA()	A3V-VI(D)-(R)()	A3V-VO(D)-(R)()	SHDEC
	A(L)IYC	A3S-(L)()	A3S-HA()	A3V-VI(D)-(R)()	A3V-VO(D)-(R)()	SHDEC
	A(L)IJC5	A4S-(L)()	A4S-HA()	A4V-VI(D)-(R)()	A4V-VO(D)-(R)()	SHDEC
5"	A(L)IYB5	A4S-(L)()	A4S-HA()	A4V-VI(D)-(R)()	A4V-VO(D)-(R)()	SHDEC
	A(L)IYC5	A4S-(L)()	A4S-HA()	A4V-VI(D)-(R)()	A4V-VO(D)-(R)()	SHDEC
	A(L)IMB	A5S-(L)()	A5S-HA()	A5V-VI(D)-(R)()	A5V-VO(D)-(R)()	SHDEC
	A(L)IMC	A5S-(L)()	A5S-HA()	A5V-VI(D)-(R)()	A5V-VO(D)-(R)()	SHDEC
	A(L)IMD	A5S-(L)()	A5S-HA()	A5V-VI(D)-(R)()	A5V-VO(D)-(R)()	SHDEC
6"	A(L)IXA	A5S-(L)()	A5S-HA()	A5V-VI(D)-(R)()	A5V-VO(D)-(R)()	SHDEC
	A(L)IXB	A5S-(L)()	A5S-HA()	A5V-VI(D)-(R)()	A5V-VO(D)-(R)()	SHDEC
	A(L) IXC	A5S-(L)()	A5S-HA()	A5V-VI(D)-(R)()	A5V-VO(D)-(R)()	SHDEC
	A(L)IXD	A5S-(L)()	A5S-HA()	A5V-VI(D)-(R)()	A5V-VO(D)-(R)()	SHDEC
	A(L) I6	AI6S-(L)()	AI6S-HA()	AI6V-VI(D)-(R)()	AI6V-VO(D)-(R)()	SHDEC
	A(L)IMC7	A6S-(L)()	A6S-HA()	A6V-VI(D)-(R)()	A6V-VO(D)-(R)()	SHDEC
7''	A(L)IXC7	A6S-(L)()	A6S-HA()	A6V-VI(D)-(R)()	A6V-VO(D)-(R)()	SHDEC
	A(L)IXD7	A6S-(L)()	A6S-HA()	A6V-VI(D)-(R)()	A6V-VO(D)-(R)()	SHDEC
8''	A(L) I8	AI8S-(L)()	AI8S-HA()	AI8V-VI(D)-(R)()	AI8V-VO(D)-(R)()	SHDEC

(L) = Insert 120 (10'), 3M (3Meters), 144 (12') Long

(D) = Insert Degree (30, 45, 60, or 90)

(R) = Insert Radius (12, 18, 24, 36, or 48) denotes desired Radius (in)

Each separator includes one CSS separator splice and 4 self-drilling self-tapping screws.

() = Blank for standard Zinc-Plated Hardware, (-6S) for 316 Stainless Steel, or (-SB) for Silicon Bronze

Example: A3V-VO90-12 (Divider for 4-1/2" high tray, Vertical Outside 90 Degree Bend with 12" Radius)

ACCESSORIES & SUPPORTS

SUPPORTS - HOLD DOWN CLAMPS, HANGER CLIPS & TRAPEZE SUPPORTS

		HOLD DOWN	• •	0		2
Tray Height	Tray Type	Hold Down/ Expansion Clamp (Aluminum)	Heavy Duty Hold Down (Aluminum)	Heavy Duty Hold Down (Aluminum)	Hanger Clip Set (Zinc-Plated) for 1/2" Hanger Rod	Trapeze Support Channel (HDGAF)
	A(L)IJA	AHDEC	AHDC-HV()	AHDC-HV2()	SHC-IJA	SSC-(W)
	A(L)IJB	AHDEC	AHDC-HV()	AHDC-HV2()	SHC-IJA	SSC-(W)
	A(L)IJC	AHDEC	AHDC-HV()	AHDC-HV2()	SHC-IJC	SSC-(W)
4.5"	A(L)IJD	AHDEC	AHDC-HV()	AHDC-HV2()	SHC-IJC	SSC-(W)
	A(L)IYA	AHDEC	AHDC-HV()	AHDC-HV2()	SHC-IYC	SSC-(W)
	A(L)IYB	AHDEC	AHDC-HV()	AHDC-HV2()	SHC-IYC	SSC-(W)
	A(L)IYC	AHDEC	AHDC-HV()	AHDC-HV2()	SHC-IYC	SSC-(W)
	A(L)IJC5	AHDEC	AHDC-HV()	AHDC-HV2()	SHC-IYC5	SSC-(W)
5"	A(L)IYB5	AHDEC	AHDC-HV()	AHDC-HV2()	SHC-IYC5	SSC-(W)
	A(L)IYC5	AHDEC	AHDC-HV()	AHDC-HV2()	SHC-IYC5	SSC-(W)
	A(L)IMB	AHDEC	AHDC-HV()	AHDC-HV2()	SHC-IXB	SSC-(W)
	A(L)IMC	AHDEC	AHDC-HV()	AHDC-HV2()	SHC-IXB	SSC-(W)
	A(L)IMD	AHDEC	AHDC-HV()	AHDC-HV2()	SHC-IXB	SSC-(W)
6"	A(L) IXA	AHDEC	AHDC-HV()	AHDC-HV2()	SHC-IXB	SSC-(W)
U	A(L)IXB	AHDEC	AHDC-HV()	AHDC-HV2()	SHC-IXB	SSC-(W)
	A(L) IXC	AHDEC	AHDC-HV()	AHDC-HV2()	SHC-IXB	SSC-(W)
	A(L)IXD	AHDEC	AHDC-HV()	AHDC-HV2()	SHC-IXB	SSC-(W)
	A(L) I6	AHDEC	AHDC-HV()	AHDC-HV2()		SSC-(W)
	A(L)IMC7	AHDEC	AHDC-HV()	AHDC-HV2()	SHC-IXD7	SSC-(W)
7"	A(L)IXC7	AHDEC	AHDC-HV()	AHDC-HV2()	SHC-IXD7	SSC-(W)
	A(L)IXD7	AHDEC	AHDC-HV()	AHDC-HV2()	SHC-IXD7	SSC-(W)
8"	A(L) I8	AHDEC	AHDC-HV()	AHDC-HV2()		SSC-(W)

() = Blank for standard Zinc-Plated Hardware, (-6S) for 316 Stainless Steel, or (-SB) for Silicon Bronze

ACCESSORIES & SUPPORTS

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SUPPORTS - TRAPEZE SUPPORTS

		5. 29			
Tray Height	Tray Type	Trapeze Support Channel (Aluminum)	Trapeze Support Angle (HDGAF)	Trapeze Support Kit (Single Strut) (Mill Galv)	Trapeze Support Kit (Double Strut) (Mill Galv)
	A(L) IJA	ASC-(W)	STSA-(W)	TSHP200-(W)-2()	TSHP201-(W)-2()
	A(L)IJB	ASC-(W)	STSA-(W)	TSHP200-(W)-2()	TSHP201-(W)-2()
	A(L)IJC	ASC-(W)	STSA-(W)	TSHP200-(W)-2()	TSHP201-(W)-2()
4.5"	A(L)IJD	ASC-(W)	STSA-(W)	TSHP200-(W)-2()	TSHP201-(W)-2()
	A(L)IYA	ASC-(W)	STSA-(W)	TSHP200-(W)-2()	TSHP201-(W)-2()
	A(L)IYB	ASC-(W)	STSA-(W)	TSHP200-(W)-2()	TSHP201-(W)-2()
	A(L)IYC	ASC-(W)	STSA-(W)	TSHP200-(W)-2()	TSHP201-(W)-2()
	A(L)IJC5	ASC-(W)	STSA-(W)	TSHP200-(W)-2()	TSHP201-(W)-2()
5"	A(L)IYB5	ASC-(W)	STSA-(W)	TSHP200-(W)-2()	TSHP201-(W)-2()
	A(L)IYC5	ASC-(W)	STSA-(W)	TSHP200-(W)-2()	TSHP201-(W)-2()
	A(L)IMB	ASC-(W)	STSA-(W)	TSHP200-(W)-2()	TSHP201-(W)-2()
	A(L)IMC	ASC-(W)	STSA-(W)	TSHP200-(W)-2()	TSHP201-(W)-2()
	A(L)IMD	ASC-(W)	STSA-(W)	TSHP200-(W)-2()	TSHP201-(W)-2()
6''	A(L)IXA	ASC-(W)	STSA-(W)	TSHP200-(W)-2()	TSHP201-(W)-2()
0	A(L)IXB	ASC-(W)	STSA-(W)	TSHP200-(W)-2()	TSHP201-(W)-2()
	A(L)IXC	ASC-(W)	STSA-(W)	TSHP200-(W)-2()	TSHP201-(W)-2()
	A(L)IXD	ASC-(W)	STSA-(W)	TSHP200-(W)-2()	TSHP201-(W)-2()
	A(L) I6	ASC-(W)	STSA-(W)	TSHP200-(W)-3()	TSHP201-(W)-3()
	A(L)IMC7	ASC-(W)	STSA-(W)	TSHP200-(W)-2()	TSHP201-(W)-2()
7"	A(L)IXC7	ASC-(W)	STSA-(W)	TSHP200-(W)-2()	TSHP201-(W)-2()
	A(L)IXD7	ASC-(W)	STSA-(W)	TSHP200-(W)-2()	TSHP201-(W)-2()
8''	A(L) I8	ASC-(W)	STSA-(W)	TSHP200-(W)-3()	TSHP201-(W)-3()

(W) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in).
() = Blank for standard Zinc-Plated Hardware, (-6S) for 316 Stainless Steel, or (-SB) for Silicon Bronze

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ACCESSORIES & SUPPORTS

WALL PENETRATION SLEEVES

			The detai penetratic also show up a wall span betw support a angle. Fo
Tray Height	Tray Type	Wall Penetration Sleeve (Aluminum)	90 with S because t
	A(L)IJA	AWPS-(W)-4-1/2()	Kellems support h
	A(L)IJB	AWPS-(W)-4-1/2()	cable sup
	A(L)IJC	AWPS-(W)-4-1/2()	members
4.5"	A(L)IJD	AWPS-(W)-4-1/2()	to be add
	A(L)IYA	AWPS-(W)-4-1/2()	
	A(L)IYB	AWPS-(W)-4-1/2()	
	A(L)IYC	AWPS-(W)-4-1/2()	
	A(L)IJC5	AWPS-(W)-5()	
5"	A(L)IYB5	AWPS-(W)-5()	
	A(L)IYC5	AWPS-(W)-5()	
	A(L)IMB	AWPS-(W)-6()	Wall Penetration
	A(L)IMC	AWPS-(W)-6()	Vertical Outsid
	A(L)IMD	AWPS-(W)-6()	90 Degree Ben
6''	A(L) IXA	AWPS-(W)-6()	
U	A(L)IXB	AWPS-(W)-6()	
	A(L)IXC	AWPS-(W)-6()	HP-S250 -"W"
	A(L)IXD	AWPS-(W)-6()	Wall Brackets
	A(L) I6	AWPS-(W)-I6()	SRSA Breaket Angle
7"	A(L)IMC7	AWPS-(W)-7()	Bracket Angle
	A(L)IXC7	AWPS-(W)-7()	BKSA-IXD-C
	A(L)IXD7	AWPS-(W)-7()	Support Angle Clips
8''	A(L) I8	AWPS-(W)-I8()	

() = Blank for standard Zinc-Plated Hardware, (-6S) for 316 Stainless Steel, or (-SB) for Silicon Bronze

The detail below shows the application of a wall penetration sleeve through a wall. This diagram also shows how to support a vertical tray running up a wall using wall brackets, a bracket angle to span between the wall brackets, and BKSA-IXD-C support angle clips to mount the tray to the bracket angle. For longer vertical runs, a vertical support 90 with SH-38 cable support hooks is recommended because the cables would be supported by Kellems Grips that hook over the SH-38 cable support hooks. On longer runs, intermediate cable supports such as MP Husky's cable support members and additional Kellems Grips, need to be added.

Wall Penetration Sleeve

Vertical Outside 90 Degree Bend

BKSA-IXD-C Support Angle Clips

MID-SPAN SPLICES & QUARTER-SPAN EXPANSION SPLICES



Mid-Span Splices

Optional mid-span splices can be placed at any location within a span, eliminating the need to have splices located within the quarter point of the span as shown in NEMA VE-2. This can reduce the cost of supports in the installation.

Quarter-Span Expansion Splices

Optional quarter-span expansion splices can be placed at any location within the quarter point of the span without supporting both sides of the splice as outlined in NEMA VE-2. This can lower the installed cost of the system by reducing the number of supports required.

See the chart below for application information.

Tray lengths need to be the same as the span length or longer.

Tray Height	Tray Type	Mid-Span Splice	Quarter-Span Expansion Splice
4.5"	IYC	ASP-MS-4-1/2	ASP-QS-4-1/2-EX
6"	IXC	ASP-MS-6	ASP-QS-6-EX
6"	IXD	ASP-MS-6	
6"	16	STANDARD SPLICE	ASP-QS-I6-EX
7''	IXC7	ASP-MS-7	
7''	IXD7	ASP-MS-7	
8"	18	STANDARD SPLICE	

MID-SPAN SPLICES & QUARTER-SPAN EXPANSION SPLICES







ENGINEERED CABLE TRAY

Manufactured & Tested In Accordance With NEMA VE-1

Classified By UL As An Equipment Grounding Conductor

CSA Classified Trays Available

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ENGINEERED CABLE TRAY

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ENGINEERED CABLE TRAY

MP Husky strives to meet the standard product needs of our customers while also helping to solve unusual installation needs. We also want to offer labor saving opportunities on projects. For this reason, we now make custom-made products engineered to solve our customers' field challenges. Special design trays and services include the following:

- Square Fittings
- Large Radius Fittings
- Cut-To-Length Tray Sections
- Factory-Installed Splice Plates
- Factory-Punched Ground Lug Holes To Save Field Labor
- Factory-Installed Separators
- Drop-In Rung Modules
- Stadium Tray

SQUARE FITTINGS

Square fittings are offered for applications where standard fittings with a radius would not work as needed. These fittings have square inside and outside corners allowing them to fit in room corners or go around square corners while still hugging the wall. The ends extend only 6" from the inside corner of the bend. They are available in 30, 45, 60, and 90 degree, horizontal or vertical fittings as well as tees and crosses. We also offer 3" corner length fittings. See samples below.



LARGE RADIUS FITTINGS

Large radius fittings are offered for applications where standard fittings would not work as needed. These fittings have a large radius custom-designed and bent to go around large equipment. We have supplied many large radius applications including tunnel applications. Consult MP Husky for further details on your specific application.

CUT-TO-LENGTH TRAY SECTIONS

MP Husky can supply projects with cut-to-length tray sections. Each section will arrive at site cut to the proper length with end holes on both ends and the part number, including the length, printed on the label. This service can provide huge savings in installed cost by eliminating costly field labor to cut the tray to length and drilling of splice connector holes after cutting. Additionally, there will be less material drop from cutting, less cutting errors and the job will be completed faster, allowing you to get on with your next project. Contact the factory to find out how economical this service is. See Detail below.

FACTORY-INSTALLED SPLICE CONNECTORS

MP Husky can install splice connectors on one end of each straight section prior to shipment, reducing field installation costs. See Detail below.

PRE-PUNCHED GROUND CLAMP HOLES

MP Husky can pre-punch ground lug mounting holes in the tray before it ships to you. With today's labor cost, the tray can arrive at the jobsite with the ground holes already punched at a fraction of the cost, saving a considerable amount of installation labor. See Detail below.



FACTORY-INSTALLED SEPARATORS

In some cases MP Husky can factory install separators providing additional savings in field labor.

ENGINEERED CABLE TRAY

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DROP-IN RUNG MODULE

Drop-In Rung Modules are available to provide a second layer of cable support in the same tray. Once cables are installed in the normal support area the module is dropped in from the top providing another level of rungs for cable placement. The rungs are mounted to a Z-member that slides in from the top of the tray and hangs on the upper flanges of the tray. The modules are about half the length of a straight tray section to make it easier to drop them in or remove them to get to the cables underneath for servicing.





STADIUM TRAY

Stadium Tray is engineered to provide an area for permanent cables and an exterior temporary area that is easy to access for cable installation and removal. This system is very useful for a convention hall where trade shows are held or similar applications. The permanent cables would be installed between the hanger rods in the permanent section and kept separate from the temporary section. The open design of the temporary area allows cables to be laid in the tray without pulling and dropped to various locations as needed. The hook design prevents the cables from slipping out and keeps them in place. Cables are easily lifted out when the event is over. The rungs that turn up can be every rung or every other rung as desired. Rung caps are available to cover rung tips for cable protection.



ENGINEERED CABLE TRAY

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WALKABLE COVERS

Walkable covers are offered for areas where trays are mounted near floor level and may be stepped on or walked on. These covers are manufactured thicker than standard covers to yield more strength, making them more rigid in the event they are stepped on. Walkable covers are offered as flat sheet style or diamond plate style for non-skid use. These covers have been tested in various widths and thicknesses to ensure they will withstand the additional loading.



WALKABLE ALUMINUM COVER CHART

The chart below shows the required thickness for covers to withstand a 200 pound person stepping on the cover. There will be deflection until the load is removed. The cover could deflect into the cables in the tray. For less deflection use a thicker cover.

Width (in)	0.040" Thick (Standard)	0.063" Thick	0.080" Thick	0.125" Thick	0.250" Thick
6	No	Yes	Yes	Yes	Yes
9	No	Yes	Yes	Yes	Yes
12	No	No	Yes	Yes	Yes
18	No	No	No	Yes	Yes
24	No	No	No	Yes	Yes
30	No	No	No	No	Yes
36	No	No	No	No	Yes
42	No	No	No	No	Yes
48	No	No	No	No	Yes
-	not recommend walking on an	ny cable tray.			

Contact MP Husky for additional information.



I-BEAM STRAIGHT FLAT & FLANGED COVERS

Manufactured & Tested In Accordance With NEMA VE-1

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FLAT OR FLANGED COVER CHARTS

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PEAKED OR HAT-SHAPE COVERS



COVER CHARTS

FLAT OR FLANGED COVERS

FLANGED COVERS

Tray Height	Tray Type	Straight Flanged Solid Cover	Straight Flanged Louvered Cover	Straight Flanged Peaked Cover
	A(RS)IJA	CA6F()-(W)-(L)	CA6F()-(W)-(L)-L	C(0)P-A6F()-(W)-(L)
	A(RS)IJB	CA6F()-(W)-(L)	CA6F()-(W)-(L)-L	C(0)P-A6F()-(W)-(L)
	A(RS)IJC	CA6F()-(W)-(L)	CA6F()-(W)-(L)-L	C(0)P-A6F()-(W)-(L)
4.5"	A(RS)IJD	CA6F()-(W)-(L)	CA6F()-(W)-(L)-L	C(0)P-A6F()-(W)-(L)
	A(RS)IYA	CA6F()-(W)-(L)	CA6F()-(W)-(L)-L	C(0)P-A6F()-(W)-(L)
	A(RS)IYB	CA6F()-(W)-(L)	CA6F()-(W)-(L)-L	C(0)P-A6F()-(W)-(L)
	A(RS)IYC	CA6F()-(W)-(L)	CA6F()-(W)-(L)-L	C(0)P-A6F()-(W)-(L)
	A(RS)IJC5	CA6F()-(W)-(L)	CA6F()-(W)-(L)-L	C(0)P-A6F()-(W)-(L)
5''	A(RS)IYB5	CA6F()-(W)-(L)	CA6F()-(W)-(L)-L	C(0)P-A6F()-(W)-(L)
	A(RS)IYC5	CA6F()-(W)-(L)	CA6F()-(W)-(L)-L	C(0)P-A6F()-(W)-(L)
	A(RS)IMB	CA6F()-(W)-(L)	CA6F()-(W)-(L)-L	C(0)P-A6F()-(W)-(L)
	A(RS)IMC	CA6F()-(W)-(L)	CA6F()-(W)-(L)-L	C(0)P-A6F()-(W)-(L)
	A(RS)IMD	CA6F()-(W)-(L)	CA6F()-(W)-(L)-L	C(0)P-A6F()-(W)-(L)
6"	A(RS)IXA	CA6F()-(W)-(L)	CA6F()-(W)-(L)-L	C(0)P-A6F()-(W)-(L)
0	A(RS) IXB	CA6F()-(W)-(L)	CA6F()-(W)-(L)-L	C(0)P-A6F()-(W)-(L)
	A(RS)IXC	CA6F()-(W)-(L)	CA6F()-(W)-(L)-L	C(0)P-A6F()-(W)-(L)
	A(RS) IXD	CA6F()-(W)-(L)	CA6F()-(W)-(L)-L	C(0)P-A6F()-(W)-(L)
	A(RS)I6	CAI6F()-(W)-(L)	CAI6F()-(W)-(L)-L	C(0)P-AI6F()-(W)-(L)
	A(RS)IMC7	CA6F()-(W)-(L)	CA6F()-(W)-(L)-L	C(0)P-A6F()-(W)-(L)
7"	A(RS)IXC7	CA6F()-(W)-(L)	CA6F()-(W)-(L)-L	C(0)P-A6F()-(W)-(L)
	A(RS)IXD7	CA6F()-(W)-(L)	CA6F()-(W)-(L)-L	C(0)P-A6F()-(W)-(L)
8"	A(RS) I8	CAI8F()-(W)-(L)	CAI8F()-(W)-(L)-L	C(0)P-AI8F()-(W)-(L)

() = Blank for 0.040" Thickness (Standard), (6) for 0.063" Thickness, (4) for 0.080" Thickness, (11) for 0.125" Thickness, or (25) for 0.25" Thickness (RS) = Rung Spacing (4, 6, 9, 12, or 18 (in)), "S", or () "Blank"

(W) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

(L) = Insert Cover Length in inches (120 or 144) denotes desired Length (in)

(0) = Insert Peak Height Example: (0) for 1/2" High Peak, (2) for 2" High Peak, denotes Peak Height (in)

-L = Louvered Cover

Fitting Covers are not peaked

Example: CA6F-24-144-L (Cover Flanged, 24 inches wide, 12' long, Louvered)

FLAT OR FLANGED COVERS

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FLAT COVERS

Tray Height	Tray Type	Straight Flat Solid Cover	Straight Flat Louvered Cover	Straight Peaked Cover
	A(RS)IJA	CA6S()-(W)-(L)	CA6S()-(W)-(L)-L	C(0)P-A6S()-(W)-(L)
	A(RS)IJB	CA6S()-(W)-(L)	CA6S()-(W)-(L)-L	C(0)P-A6S()-(W)-(L)
	A(RS)IJC	CA6S()-(W)-(L)	CA6S()-(W)-(L)-L	C(0)P-A6S()-(W)-(L)
4.5"	A(RS)IJD	CA6S()-(W)-(L)	CA6S()-(W)-(L)-L	C(0)P-A6S()-(W)-(L)
	A(RS)IYA	CA6S()-(W)-(L)	CA6S()-(W)-(L)-L	C(0)P-A6S()-(W)-(L)
	A(RS)IYB	CA6S()-(W)-(L)	CA6S()-(W)-(L)-L	C(0)P-A6S()-(W)-(L)
	A(RS)IYC	CA6S()-(W)-(L)	CA6S()-(W)-(L)-L	C(0)P-A6S()-(W)-(L)
	A(RS)IJC5	CA6S()-(W)-(L)	CA6S()-(W)-(L)-L	C(0)P-A6S()-(W)-(L)
5"	A(RS)IYB5	CA6S()-(W)-(L)	CA6S()-(W)-(L)-L	C(0)P-A6S()-(W)-(L)
	A(RS)IYC5	CA6S()-(W)-(L)	CA6S()-(W)-(L)-L	C(0)P-A6S()-(W)-(L)
	A(RS)IMB	CA6S()-(W)-(L)	CA6S()-(W)-(L)-L	C(0)P-A6S()-(W)-(L)
	A(RS)IMC	CA6S()-(W)-(L)	CA6S()-(W)-(L)-L	C(0)P-A6S()-(W)-(L)
	A(RS)IMD	CA6S()-(W)-(L)	CA6S()-(W)-(L)-L	C(0)P-A6S()-(W)-(L)
6"	A(RS)IXA	CA6S()-(W)-(L)	CA6S()-(W)-(L)-L	C(0)P-A6S()-(W)-(L)
U	A(RS) IXB	CA6S()-(W)-(L)	CA6S()-(W)-(L)-L	C(0)P-A6S()-(W)-(L)
	A(RS)IXC	CA6S()-(W)-(L)	CA6S()-(W)-(L)-L	C(0)P-A6S()-(W)-(L)
	A(RS) IXD	CA6S()-(W)-(L)	CA6S()-(W)-(L)-L	C(0)P-A6S()-(W)-(L)
	A(RS)I6	CAI6S()-(W)-(L)	CAI6S()-(W)-(L)-L	C(0)P-AI6S()-(W)-(L)
	A(RS)IMC7	CA6S()-(W)-(L)	CA6S()-(W)-(L)-L	C(0)P-A6S()-(W)-(L)
7"	A(RS)IXC7	CA6S()-(W)-(L)	CA6S()-(W)-(L)-L	C(0)P-A6S()-(W)-(L)
	A(RS)IXD7	CA6S()-(W)-(L)	CA6S()-(W)-(L)-L	C(0)P-A6S()-(W)-(L)
8"	A(RS) I8	CAI8S()-(W)-(L)	CAI8S()-(W)-(L)-L	C(0)P-AI8S()-(W)-(L)

() = Blank for 0.040" Thickness (Standard), (6) for 0.063" Thickness, (4) for 0.080" Thickness, (11) for 0.125" Thickness, or (25) for 0.25" Thickness (RS) = Rung Spacing (4, 6, 9, 12, or 18 (in)), "S", or () "Blank"

(W) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

(L) = Insert Cover Length in inches (120 or 144) denotes desired Length (in)

(0) = Insert Peak Height Example: (0) for 1/2" High Peak, (2) for 2" High Peak, denotes Peak Height (in)

-L = Louvered Cover

Fitting Covers are not peaked

Example: CA6F-24-144-L (Cover Flanged, 24 inches wide, 12' long, Louvered)



I-BEAM FLAT FLANGED FITTING COVERS

Manufactured & Tested In Accordance With NEMA VE-1

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COVER CHARTS

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FLAT FLANGED FITTING COVERS



(°) Insert degree of bend (90, 60, 45, or 30) for Horizontal and Vertical Inside or Outside Bends.

Please see the sheets that follow for complete catalog numbers for Fittings.

ALI6 and ALI8 Fittings have 5" tangents. All other Fittings have 0" tangents.

Fitting Covers are not peaked



Fitting Covers are not peaked

FLANGED FITTING COVERS

FLAT FLANGED COVERS - HORIZONTAL BENDS

		R	R	R	R
Tray Height	Tray Type	Horizontal 90 Degree Bend Flanged Cover	Horizontal 60 Degree Bend Flanged Cover	Horizontal 45 Degree Bend Flanged Cover	Horizontal 30 Degree Bend Flanged Cover
	A(L)IJA	CA6F()-(W)H90-(R)	CA6F()-(W)H60-(R)	CA6F()-(W)H45-(R)	CA6F()-(W)H30-(R)
	A(L)IJB	CA6F()-(W)H90-(R)	CA6F()-(W)H60-(R)	CA6F()-(W)H45-(R)	CA6F()-(W)H30-(R)
	A(L)IJC	CA6F()-(W)H90-(R)	CA6F()-(W)H60-(R)	CA6F()-(W)H45-(R)	CA6F()-(W)H30-(R)
4.5"	A(L)IJD	CA6F()-(W)H90-(R)	CA6F()-(W)H60-(R)	CA6F()-(W)H45-(R)	CA6F()-(W)H30-(R)
	A(L)IYA	CA6F()-(W)H90-(R)	CA6F()-(W)H60-(R)	CA6F()-(W)H45-(R)	CA6F()-(W)H30-(R)
	A(L)IYB	CA6F()-(W)H90-(R)	CA6F()-(W)H60-(R)	CA6F()-(W)H45-(R)	CA6F()-(W)H30-(R)
	A(L)IYC	CA6F()-(W)H90-(R)	CA6F()-(W)H60-(R)	CA6F()-(W)H45-(R)	CA6F()-(W)H30-(R)
	A(L)IJC5	CA6F()-(W)H90-(R)	CA6F()-(W)H60-(R)	CA6F()-(W)H45-(R)	CA6F()-(W)H30-(R)
5"	A(L)IYB5	CA6F()-(W)H90-(R)	CA6F()-(W)H60-(R)	CA6F()-(W)H45-(R)	CA6F()-(W)H30-(R)
	A(L)IYC5	CA6F()-(W)H90-(R)	CA6F()-(W)H60-(R)	CA6F()-(W)H45-(R)	CA6F()-(W)H30-(R)
	A(L)IMB	CA6F()-(W)H90-(R)	CA6F()-(W)H60-(R)	CA6F()-(W)H45-(R)	CA6F()-(W)H30-(R)
	A(L)IMC	CA6F()-(W)H90-(R)	CA6F()-(W)H60-(R)	CA6F()-(W)H45-(R)	CA6F()-(W)H30-(R)
	A(L)IMD	CA6F()-(W)H90-(R)	CA6F()-(W)H60-(R)	CA6F()-(W)H45-(R)	CA6F()-(W)H30-(R)
6"	A(L)IXA	CA6F()-(W)H90-(R)	CA6F()-(W)H60-(R)	CA6F()-(W)H45-(R)	CA6F()-(W)H30-(R)
U	A(L)IXB	CA6F()-(W)H90-(R)	CA6F()-(W)H60-(R)	CA6F()-(W)H45-(R)	CA6F()-(W)H30-(R)
	A(L)IXC	CA6F()-(W)H90-(R)	CA6F()-(W)H60-(R)	CA6F()-(W)H45-(R)	CA6F()-(W)H30-(R)
	A(L)IXD	CA6F()-(W)H90-(R)	CA6F()-(W)H60-(R)	CA6F()-(W)H45-(R)	CA6F()-(W)H30-(R)
	A(L) I6	CAI6F()-(W)H90-(R)	CAI6F()-(W)H60-(R)	CAI6F()-(W)H45-(R)	CAI6F()-(W)H30-(R)
	A(L)IMC7	CA6F()-(W)H90-(R)	CA6F()-(W)H60-(R)	CA6F()-(W)H45-(R)	CA6F()-(W)H30-(R)
7''	A(L)IXC7	CA6F()-(W)H90-(R)	CA6F()-(W)H60-(R)	CA6F()-(W)H45-(R)	CA6F()-(W)H30-(R)
	A(L)IXD7	CA6F()-(W)H90-(R)	CA6F()-(W)H60-(R)	CA6F()-(W)H45-(R)	CA6F()-(W)H30-(R)
8''	A(L) I8	CAI8F()-(W)H90-(R)	CAI8F()-(W)H60-(R)	CAI8F()-(W)H45-(R)	CAI8F()-(W)H30-(R)

(L) = Ladder, (S) for Solid Bottom Trough, () Blank for Ventilated Trough or (4) for 4" Rung Spacing on 6" - 36" wide Ventilated Trough

() = Blank for 0.040" Thickness (standard), (6) for 0.063" Thickness, or (4) for 0.080" Thickness

(W) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

(R) = Radius (12, 18, 24, 36, or 48) denotes desired Radius (in)

ALI6 and ALI8 Fitting Covers have 5" tangents. All other Fittings have 0" tangents.

Examples: CA6F-12H90-24 (Solid Flanged Cover, 12" wide Horizontal 90 Degree Bend with 24" radius)

FLANGED FITTING COVERS

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FLAT FLANGED COVERS - VERTICAL 90 & 60 DEGREE BENDS

		R	R	R	R
Tray Height	Tray Type	Vertical 90 Degree Inside Bend Flanged Cover	Vertical 90 Degree Outside Bend Flanged Cover	Vertical 60 Degree Inside Bend Flanged Cover	Vertical 60 Degree Outside Bend Flanged Cover
	A(L)IJA	CA6F()-(W)VI90-(R)	CA6F()-(W)VO90-(R)	CA6F()-(W)VI60-(R)	CA6F()-(W)VO60-(R)
	A(L)IJB	CA6F()-(W)VI90-(R)	CA6F()-(W)VO90-(R)	CA6F()-(W)VI60-(R)	CA6F()-(W)VO60-(R)
	A(L)IJC	CA6F()-(W)VI90-(R)	CA6F()-(W)VO90-(R)	CA6F()-(W)VI60-(R)	CA6F()-(W)VO60-(R)
4.5"	A(L)IJD	CA6F()-(W)VI90-(R)	CA6F()-(W)VO90-(R)	CA6F()-(W)VI60-(R)	CA6F()-(W)VO60-(R)
	A(L)IYA	CA6F()-(W)VI90-(R)	CA6F()-(W)VO90-(R)	CA6F()-(W)VI60-(R)	CA6F()-(W)VO60-(R)
	A(L)IYB	CA6F()-(W)VI90-(R)	CA6F()-(W)VO90-(R)	CA6F()-(W)VI60-(R)	CA6F()-(W)VO60-(R)
	A(L)IYC	CA6F()-(W)VI90-(R)	CA6F()-(W)VO90-(R)	CA6F()-(W)VI60-(R)	CA6F()-(W)VO60-(R)
	A(L)IJC5	CA6F()-(W)VI90-(R)	CA6F()-(W)VO90-(R)	CA6F()-(W)VI60-(R)	CA6F()-(W)VO60-(R)
5"	A(L)IYB5	CA6F()-(W)VI90-(R)	CA6F()-(W)VO90-(R)	CA6F()-(W)VI60-(R)	CA6F()-(W)VO60-(R)
	A(L)IYC5	CA6F()-(W)VI90-(R)	CA6F()-(W)VO90-(R)	CA6F()-(W)VI60-(R)	CA6F()-(W)VO60-(R)
	A(L)IMB	CA6F()-(W)VI90-(R)	CA6F()-(W)VO90-(R)	CA6F()-(W)VI60-(R)	CA6F()-(W)VO60-(R)
	A(L)IMC	CA6F()-(W)VI90-(R)	CA6F()-(W)VO90-(R)	CA6F()-(W)VI60-(R)	CA6F()-(W)VO60-(R)
	A(L)IMD	CA6F()-(W)VI90-(R)	CA6F()-(W)VO90-(R)	CA6F()-(W)VI60-(R)	CA6F()-(W)VO60-(R)
6"	A(L) IXA	CA6F()-(W)VI90-(R)	CA6F()-(W)VO90-(R)	CA6F()-(W)VI60-(R)	CA6F()-(W)VO60-(R)
	A(L)IXB	CA6F()-(W)VI90-(R)	CA6F()-(W)VO90-(R)	CA6F()-(W)VI60-(R)	CA6F()-(W)VO60-(R)
	A(L)IXC	CA6F()-(W)VI90-(R)	CA6F()-(W)VO90-(R)	CA6F()-(W)VI60-(R)	CA6F()-(W)VO60-(R)
	A(L) IXD	CA6F()-(W)VI90-(R)	CA6F()-(W)VO90-(R)	CA6F()-(W)VI60-(R)	CA6F()-(W)VO60-(R)
	A(L) I6	CAI6F()-(W)VI90-(R)	CAI6F()-(W)VO90-(R)	CAI6F()-(W)VI60-(R)	CAI6F()-(W)VO60-(R)
	A(L)IMC7	CA6F()-(W)VI90-(R)	CA6F()-(W)VO90-(R)	CA6F()-(W)VI60-(R)	CA6F()-(W)VO60-(R)
7''	A(L)IXC7	CA6F()-(W)VI90-(R)	CA6F()-(W)VO90-(R)	CA6F()-(W)VI60-(R)	CA6F()-(W)VO60-(R)
	A(L)IXD7	CA6F()-(W)VI90-(R)	CA6F()-(W)VO90-(R)	CA6F()-(W)VI60-(R)	CA6F()-(W)VO60-(R)
8"	A(L) I8	CAI8F()-(W)VI90-(R)	CAI8F()-(W)VO90-(R)	CAI8F()-(W)VI60-(R)	CAI8F()-(W)VO60-(R)

(L) = Ladder, (S) for Solid Bottom Trough, () Blank for Ventilated Trough or (4) for 4" Rung Spacing on 6" - 36" wide Ventilated Trough

() = Blank for 0.040" Thickness (standard), (6) for 0.063" Thickness, or (4) for 0.080" Thickness

(W) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

(R) = Radius (12, 18, 24, 36, or 48) denotes desired Radius (in)

ALI6 and ALI8 Fitting Covers have 5" tangents. All other Fittings have 0" tangents.

Examples: CA6F-12VI90-24 (Solid Flanged Cover, 12" wide Vertical Inside 90 Degree Bend with 24" radius)

FLANGED FITTING COVERS

FLAT FLANGED COVERS - VERTICAL 45 & 30 DEGREE BENDS

		R	R	R	W R
Tray Height	Tray Type	Vertical 45 Degree Inside Bend Flanged Cover	Vertical 45 Degree Outside Bend Flanged Cover	Vertical 30 Degree Inside Bend Flanged Cover	Vertical 30 Degree Outside Bend Flanged Cover
	A(L)IJA	CA6F()-(W)VI45-(R)	CA6F()-(W)VO45-(R)	CA6F()-(W)VI30-(R)	CA6F()-(W)VO30-(R)
	A(L)IJB	CA6F()-(W)VI45-(R)	CA6F()-(W)VO45-(R)	CA6F()-(W)VI30-(R)	CA6F()-(W)VO30-(R)
	A(L)IJC	CA6F()-(W)VI45-(R)	CA6F()-(W)VO45-(R)	CA6F()-(W)VI30-(R)	CA6F()-(W)VO30-(R)
4.5"	A(L)IJD	CA6F()-(W)VI45-(R)	CA6F()-(W)VO45-(R)	CA6F()-(W)VI30-(R)	CA6F()-(W)VO30-(R)
	A(L)IYA	CA6F()-(W)VI45-(R)	CA6F()-(W)VO45-(R)	CA6F()-(W)VI30-(R)	CA6F()-(W)VO30-(R)
	A(L)IYB	CA6F()-(W)VI45-(R)	CA6F()-(W)VO45-(R)	CA6F()-(W)VI30-(R)	CA6F()-(W)VO30-(R)
	A(L)IYC	CA6F()-(W)VI45-(R)	CA6F()-(W)VO45-(R)	CA6F()-(W)VI30-(R)	CA6F()-(W)VO30-(R)
	A(L)IJC5	CA6F()-(W)VI45-(R)	CA6F()-(W)VO45-(R)	CA6F()-(W)VI30-(R)	CA6F()-(W)VO30-(R)
5"	A(L)IYB5	CA6F()-(W)VI45-(R)	CA6F()-(W)VO45-(R)	CA6F()-(W)VI30-(R)	CA6F()-(W)VO30-(R)
	A(L)IYC5	CA6F()-(W)VI45-(R)	CA6F()-(W)VO45-(R)	CA6F()-(W)VI30-(R)	CA6F()-(W)VO30-(R)
	A(L)IMB	CA6F()-(W)VI45-(R)	CA6F()-(W)VO45-(R)	CA6F()-(W)VI30-(R)	CA6F()-(W)VO30-(R)
	A(L)IMC	CA6F()-(W)VI45-(R)	CA6F()-(W)VO45-(R)	CA6F()-(W)VI30-(R)	CA6F()-(W)VO30-(R)
	A(L)IMD	CA6F()-(W)VI45-(R)	CA6F()-(W)VO45-(R)	CA6F()-(W)VI30-(R)	CA6F()-(W)VO30-(R)
6''	A(L)IXA	CA6F()-(W)VI45-(R)	CA6F()-(W)VO45-(R)	CA6F()-(W)VI30-(R)	CA6F()-(W)VO30-(R)
Ŭ	A(L)IXB	CA6F()-(W)VI45-(R)	CA6F()-(W)VO45-(R)	CA6F()-(W)VI30-(R)	CA6F()-(W)VO30-(R)
	A(L)IXC	CA6F()-(W)VI45-(R)	CA6F()-(W)VO45-(R)	CA6F()-(W)VI30-(R)	CA6F()-(W)VO30-(R)
	A(L)IXD	CA6F()-(W)VI45-(R)	CA6F()-(W)VO45-(R)	CA6F()-(W)VI30-(R)	CA6F()-(W)VO30-(R)
	A(L) I6	CAI6F()-(W)VI45-(R)	CAI6F()-(W)VO45-(R)	CAI6F()-(W)VI30-(R)	CAI6F()-(W)VO30-(R)
	A(L)IMC7	CA6F()-(W)VI45-(R)	CA6F()-(W)VO45-(R)	CA6F()-(W)VI30-(R)	CA6F()-(W)VO30-(R)
7''	A(L)IXC7	CA6F()-(W)VI45-(R)	CA6F()-(W)VO45-(R)	CA6F()-(W)VI30-(R)	CA6F()-(W)VO30-(R)
	A(L)IXD7	CA6F()-(W)VI45-(R)	CA6F()-(W)VO45-(R)	CA6F()-(W)VI30-(R)	CA6F()-(W)VO30-(R)
8"	A(L) I8	CAI8F()-(W)VI45-(R)	CAI8F()-(W)VO45-(R)	CAI8F()-(W)VI30-(R)	CAI8F()-(W)VO30-(R)

(L) = Ladder, (S) for Solid Bottom Trough, () Blank for Ventilated Trough or (4) for 4" Rung Spacing on 6" - 36" wide Ventilated Trough

() = Blank for 0.040" Thickness (standard), (6) for 0.063" Thickness, or (4) for 0.080" Thickness

(W) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

(R) = Radius (12, 18, 24, 36, or 48) denotes desired Radius (in)

ALI6 and ALI8 Fitting Covers have 5" tangents. All other Fittings have 0" tangents.

Examples: CA6F-12VI45-24 (Solid Flanged Cover, 12" wide Vertical Inside 45 Degree Bend with 24" radius)

FLANGED FITTING COVERS

mphusky

FLAT FLANGED COVERS - TEES

		W R W	W R W1	W R W1
Tray Tray Height Type		Horizontal Tee Flanged Cover	Horizontal Reducing Tee Flanged Cover	Horizontal Enlarging Tee Flanged Cover
	A(L)IJA	CA6F()-(W)T-(R)	CA6F()-(W)T(W1)-(R)	CA6F()-(W)T(W1)-(R)
	A(L)IJB	CA6F()-(W)T-(R)	CA6F()-(W)T(W1)-(R)	CA6F()-(W)T(W1)-(R)
	A(L)IJC	CA6F()-(W)T-(R)	CA6F()-(W)T(W1)-(R)	CA6F()-(W)T(W1)-(R)
4.5"	A(L)IJD	CA6F()-(W)T-(R)	CA6F()-(W)T(W1)-(R)	CA6F()-(W)T(W1)-(R)
	A(L)IYA	CA6F()-(W)T-(R)	CA6F()-(W)T(W1)-(R)	CA6F()-(W)T(W1)-(R)
	A(L)IYB	CA6F()-(W)T-(R)	CA6F()-(W)T(W1)-(R)	CA6F()-(W)T(W1)-(R)
A(L)IYC		CA6F()-(W)T-(R)	CA6F()-(W)T(W1)-(R)	CA6F()-(W)T(W1)-(R)
	A(L)IJC5	CA6F()-(W)T-(R)	CA6F()-(W)T(W1)-(R)	CA6F()-(W)T(W1)-(R)
5"	A(L)IYB5	CA6F()-(W)T-(R)	CA6F()-(W)T(W1)-(R)	CA6F()-(W)T(W1)-(R)
	A(L)IYC5	CA6F()-(W)T-(R)	CA6F()-(W)T(W1)-(R)	CA6F()-(W)T(W1)-(R)
	A(L)IMB	CA6F()-(W)T-(R)	CA6F()-(W)T(W1)-(R)	CA6F()-(W)T(W1)-(R)
	A(L)IMC	CA6F()-(W)T-(R)	CA6F()-(W)T(W1)-(R)	CA6F()-(W)T(W1)-(R)
	A(L)IMD	CA6F()-(W)T-(R)	CA6F()-(W)T(W1)-(R)	CA6F()-(W)T(W1)-(R)
6"	A(L) IXA	CA6F()-(W)T-(R)	CA6F()-(W)T(W1)-(R)	CA6F()-(W)T(W1)-(R)
Ŭ	A(L)IXB	CA6F()-(W)T-(R)	CA6F()-(W)T(W1)-(R)	CA6F()-(W)T(W1)-(R)
	A(L)IXC	CA6F()-(W)T-(R)	CA6F()-(W)T(W1)-(R)	CA6F()-(W)T(W1)-(R)
	A(L) IXD	CA6F()-(W)T-(R)	CA6F()-(W)T(W1)-(R)	CA6F()-(W)T(W1)-(R)
	A(L) I6	CAI6F()-(W)T-(R)	CAI6F()-(W)T(W1)-(R)	CAI6F()-(W)T(W1)-(R)
	A(L)IMC7	CA6F()-(W)T-(R)	CA6F()-(W)T(W1)-(R)	CA6F()-(W)T(W1)-(R)
7"	A(L)IXC7	CA6F()-(W)T-(R)	CA6F()-(W)T(W1)-(R)	CA6F()-(W)T(W1)-(R)
	A(L)IXD7	CA6F()-(W)T-(R)	CA6F()-(W)T(W1)-(R)	CA6F()-(W)T(W1)-(R)
8"	A(L) I8	CAI8F()-(W)T-(R)	CAI8F()-(W)T(W1)-(R)	CAI8F()-(W)T(W1)-(R)

(L) = Ladder, (S) for Solid Bottom Trough, () Blank for Ventilated Trough or (4) for 4" Rung Spacing on 6" - 36" wide Ventilated Trough () = Plank for 0.040" Thiokness (ton dord) (6) for 0.062" Thiokness or (4) for 0.090" Thiokness

() = Blank for 0.040" Thickness (standard), (6) for 0.063" Thickness, or (4) for 0.080" Thickness ($W_{2} = W_{1} + \frac{1}{2} +$

(W) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

(W1) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired second Width (in)

(R) = Radius (12, 18, 24, 36, or 48) denotes desired Radius (in)

ALI6 and ALI8 Fitting Covers have 5" tangents. All other Fittings have 0" tangents.

Examples: CA6F-12T-24 (Solid Flanged Cover, 12" wide Horizontal Tee with 24" radius)

FLANGED FITTING COVERS

FLAT FLANGED COVERS - CROSSES

		W R W	W R W1	W R W1
Tray Tray Height Type		Horizontal Cross Flanged Cover	Horizontal Reducing Cross Flanged Cover	Horizontal Enlarging Cross Flanged Cover
	A(L)IJA	CA6F()-(W)X-(R)	CA6F()-(W)X(W1)-(R)	CA6F()-(W)X(W1)-(R)
	A(L)IJB	CA6F()-(W)X-(R)	CA6F()-(W)X(W1)-(R)	CA6F()-(W)X(W1)-(R)
	A(L)IJC	CA6F()-(W)X-(R)	CA6F()-(W)X(W1)-(R)	CA6F()-(W)X(W1)-(R)
4.5"	A(L)IJD	CA6F()-(W)X-(R)	CA6F()-(W)X(W1)-(R)	CA6F()-(W)X(W1)-(R)
	A(L)IYA	CA6F()-(W)X-(R)	CA6F()-(W)X(W1)-(R)	CA6F()-(W)X(W1)-(R)
	A(L)IYB	CA6F()-(W)X-(R)	CA6F()-(W)X(W1)-(R)	CA6F()-(W)X(W1)-(R)
	A(L)IYC	CA6F()-(W)X-(R)	CA6F()-(W)X(W1)-(R)	CA6F()-(W)X(W1)-(R)
	A(L)IJC5	CA6F()-(W)X-(R)	CA6F()-(W)X(W1)-(R)	CA6F()-(W)X(W1)-(R)
5"	A(L)IYB5	CA6F()-(W)X-(R)	CA6F()-(W)X(W1)-(R)	CA6F()-(W)X(W1)-(R)
	A(L)IYC5	CA6F()-(W)X-(R)	CA6F()-(W)X(W1)-(R)	CA6F()-(W)X(W1)-(R)
	A(L)IMB	CA6F()-(W)X-(R)	CA6F()-(W)X(W1)-(R)	CA6F()-(W)X(W1)-(R)
	A(L)IMC	CA6F()-(W)X-(R)	CA6F()-(W)X(W1)-(R)	CA6F()-(W)X(W1)-(R)
	A(L)IMD	CA6F()-(W)X-(R)	CA6F()-(W)X(W1)-(R)	CA6F()-(W)X(W1)-(R)
6"	A(L)IXA	CA6F()-(W)X-(R)	CA6F()-(W)X(W1)-(R)	CA6F()-(W)X(W1)-(R)
	A(L)IXB	CA6F()-(W)X-(R)	CA6F()-(W)X(W1)-(R)	CA6F()-(W)X(W1)-(R)
	A(L) IXC	CA6F()-(W)X-(R)	CA6F()-(W)X(W1)-(R)	CA6F()-(W)X(W1)-(R)
	A(L)IXD	CA6F()-(W)X-(R)	CA6F()-(W)X(W1)-(R)	CA6F()-(W)X(W1)-(R)
	A(L) I6	CAI6F()-(W)X-(R)	CAI6F()-(W)X(W1)-(R)	CAI6F()-(W)X(W1)-(R)
	A(L)IMC7	CA6F()-(W)X-(R)	CA6F()-(W)X(W1)-(R)	CA6F()-(W)X(W1)-(R)
7''	A(L)IXC7	CA6F()-(W)X-(R)	CA6F()-(W)X(W1)-(R)	CA6F()-(W)X(W1)-(R)
	A(L)IXD7	CA6F()-(W)X-(R)	CA6F()-(W)X(W1)-(R)	CA6F()-(W)X(W1)-(R)
8''	A(L) I8	CAI8F()-(W)X-(R)	CAI8F()-(W)X(W1)-(R)	CAI8F()-(W)X(W1)-(R)

(L) = Ladder, (S) for Solid Bottom Trough, () Blank for Ventilated Trough or (4) for 4" Rung Spacing on 6" - 36" wide Ventilated Trough

() = Blank for 0.040" Thickness (standard), (6) for 0.063" Thickness, or (4) for 0.080" Thickness

(W) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

(W1) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired second Width (in)

(R) = Radius (12, 18, 24, 36, or 48) denotes desired Radius (in)

ALI6 and ALI8 Fitting Covers have 5" tangents. All other Fittings have 0" tangents.

Examples: CA6F-12X-24 (Solid Flanged Cover, 12" wide Horizontal Cross with 24" radius)

FLANGED FITTING COVERS

mphusky

FLAT FLANGED COVERS - REDUCERS

		LENGTH = 12" W W1	LENGTH = 12" W W1	LENGTH = 12" W W1
Tray Tray Height Type		Straight (Concentric) Reducer Flanged Cover	Right Hand (Eccentric) Reducer Flanged Cover	Left Hand (Eccentric) Reducer Flanged Cover
	A(L)IJA	CA6F()-(W)R(W1)	CA6F()-(W)RR(W1)	CA6F()-(W)RL(W1)
	A(L)IJB	CA6F()-(W)R(W1)	CA6F()-(W)RR(W1)	CA6F()-(W)RL(W1)
	A(L)IJC	CA6F()-(W)R(W1)	CA6F()-(W)RR(W1)	CA6F()-(W)RL(W1)
4.5"	A(L)IJD	CA6F()-(W)R(W1)	CA6F()-(W)RR(W1)	CA6F()-(W)RL(W1)
	A(L)IYA	CA6F()-(W)R(W1)	CA6F()-(W)RR(W1)	CA6F()-(W)RL(W1)
	A(L)IYB	CA6F()-(W)R(W1)	CA6F()-(W)RR(W1)	CA6F()-(W)RL(W1)
A(L)IYC		CA6F()-(W)R(W1)	CA6F()-(W)RR(W1)	CA6F()-(W)RL(W1)
	A(L)IJC5	CA6F()-(W)R(W1)	CA6F()-(W)RR(W1)	CA6F()-(W)RL(W1)
5"	A(L)IYB5	CA6F()-(W)R(W1)	CA6F()-(W)RR(W1)	CA6F()-(W)RL(W1)
	A(L)IYC5	CA6F()-(W)R(W1)	CA6F()-(W)RR(W1)	CA6F()-(W)RL(W1)
	A(L)IMB	CA6F()-(W)R(W1)	CA6F()-(W)RR(W1)	CA6F()-(W)RL(W1)
	A(L)IMC	CA6F()-(W)R(W1)	CA6F()-(W)RR(W1)	CA6F()-(W)RL(W1)
	A(L)IMD	CA6F()-(W)R(W1)	CA6F()-(W)RR(W1)	CA6F()-(W)RL(W1)
6"	A(L) IXA	CA6F()-(W)R(W1)	CA6F()-(W)RR(W1)	CA6F()-(W)RL(W1)
	A(L)IXB	CA6F()-(W)R(W1)	CA6F()-(W)RR(W1)	CA6F()-(W)RL(W1)
	A(L) IXC	CA6F()-(W)R(W1)	CA6F()-(W)RR(W1)	CA6F()-(W)RL(W1)
	A(L) IXD	CA6F()-(W)R(W1)	CA6F()-(W)RR(W1)	CA6F()-(W)RL(W1)
	A(L) I6	CAI6F()-(W)R(W1)	CAI6F()-(W)RR(W1)	CAI6F()-(W)RL(W1)
	A(L)IMC7	CA6F()-(W)R(W1)	CA6F()-(W)RR(W1)	CA6F()-(W)RL(W1)
7"	A(L)IXC7	CA6F()-(W)R(W1)	CA6F()-(W)RR(W1)	CA6F()-(W)RL(W1)
	A(L)IXD7	CA6F()-(W)R(W1)	CA6F()-(W)RR(W1)	CA6F()-(W)RL(W1)
8''	A(L) I8	CAI8F()-(W)R(W1)	CAI8F()-(W)RR(W1)	CAI8F()-(W)RL(W1)

(L) = Ladder, (S) for Solid Bottom Trough, () Blank for Ventilated Trough or (4) for 4" Rung Spacing on 6" - 36" wide Ventilated Trough

() = Blank for 0.040" Thickness (standard), (6) for 0.063" Thickness, or (4) for 0.080" Thickness

(W) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

(W1) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired second Width (in)

ALI6 and ALI8 Reducer Covers are 24" long. All other I-Beam Reducer Covers are 12" long.

Examples: CA6F-12R6 (Solid Flanged Cover, 12" wide to 6" wide Straight Reducer)

FLANGED FITTING COVERS

FLAT FLANGED COVERS - VERTICAL TEES

		W	R
Tray Tray Height Type		Vertical Tee Turns Down Flanged Cover	Vertical Tee Turns Up Flanged Cover
	A(L)IJA	CA6F()-(W)VT-(R)	CA6F()-(W)VTU-(R)
	A(L)IJB	CA6F()-(W)VT-(R)	CA6F()-(W)VTU-(R)
	A(L)IJC	CA6F()-(W)VT-(R)	CA6F()-(W)VTU-(R)
4.5"	A(L)IJD	CA6F()-(W)VT-(R)	CA6F()-(W)VTU-(R)
	A(L)IYA	CA6F()-(W)VT-(R)	CA6F()-(W)VTU-(R)
	A(L)IYB	CA6F()-(W)VT-(R)	CA6F()-(W)VTU-(R)
	A(L)IYC	CA6F()-(W)VT-(R)	CA6F()-(W)VTU-(R)
	A(L)IJC5	CA6F()-(W)VT-(R)	CA6F()-(W)VTU-(R)
5"	A(L)IYB5	CA6F()-(W)VT-(R)	CA6F()-(W)VTU-(R)
	A(L)IYC5	CA6F()-(W)VT-(R)	CA6F()-(W)VTU-(R)
	A(L)IMB	CA6F()-(W)VT-(R)	CA6F()-(W)VTU-(R)
	A(L)IMC	CA6F()-(W)VT-(R)	CA6F()-(W)VTU-(R)
	A(L)IMD	CA6F()-(W)VT-(R)	CA6F()-(W)VTU-(R)
6"	A(L)IXA	CA6F()-(W)VT-(R)	CA6F()-(W)VTU-(R)
U	A(L)IXB	CA6F()-(W)VT-(R)	CA6F()-(W)VTU-(R)
	A(L)IXC	CA6F()-(W)VT-(R)	CA6F()-(W)VTU-(R)
	A(L)IXD	CA6F()-(W)VT-(R)	CA6F()-(W)VTU-(R)
	A(L) I6	CAI6F()-(W)VT-(R)	CAI6F()-(W)VTU-(R)
	A(L)IMC7	CA6F()-(W)VT-(R)	CA6F()-(W)VTU-(R)
7''	A(L)IXC7	CA6F()-(W)VT-(R)	CA6F()-(W)VTU-(R)
	A(L)IXD7	CA6F()-(W)VT-(R)	CA6F()-(W)VTU-(R)
8''	A(L) I8	CAI8F()-(W)VT-(R)	CAI8F()-(W)VTU-(R)

(L) = Ladder, (S) for Solid Bottom Trough, () Blank for Ventilated Trough or (4) for 4" Rung Spacing on 6" - 36" wide Ventilated Trough () = Blank for 0.040" Thickness (standard), (6) for 0.063" Thickness, or (4) for 0.080" Thickness

(W) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

(R) = Radius (12, 18, 24, 36, or 48) denotes desired Radius (in)

ALI6 and ALI8 Fitting Covers have 5" tangents. All other Fittings have 0" tangents.

Examples: CA6F-12VT-24 (Solid Flanged Cover, 12" wide Vertical Tee with 24" radius)

FLANGED FITTING COVERS

mphusky

FLAT FLANGED COVERS - VERTICAL SUPPORT ELBOWS & VERTICAL CROSSES

		W	R R W
Tray Height	Tray Type	Vertical Support 90 Fitting Flanged Cover	Vertical Cross Flanged Cover
	A(L)IJA	CA6F()-(W)VS-(R)	CA6F()-(W)VX-(R)
	A(L)IJB	CA6F()-(W)VS-(R)	CA6F()-(W)VX-(R)
	A(L)IJC	CA6F()-(W)VS-(R)	CA6F()-(W)VX-(R)
4.5"	A(L)IJD	CA6F()-(W)VS-(R)	CA6F()-(W)VX-(R)
	A(L)IYA	CA6F()-(W)VS-(R)	CA6F()-(W)VX-(R)
	A(L)IYB	CA6F()-(W)VS-(R)	CA6F()-(W)VX-(R)
	A(L)IYC	CA6F()-(W)VS-(R)	CA6F()-(W)VX-(R)
	A(L)IJC5	CA6F()-(W)VS-(R)	CA6F()-(W)VX-(R)
5"	A(L)IYB5	CA6F()-(W)VS-(R)	CA6F()-(W)VX-(R)
	A(L)IYC5	CA6F()-(W)VS-(R)	CA6F()-(W)VX-(R)
	A(L)IMB	CA6F()-(W)VS-(R)	CA6F()-(W)VX-(R)
	A(L)IMC	CA6F()-(W)VS-(R)	CA6F()-(W)VX-(R)
	A(L)IMD	CA6F()-(W)VS-(R)	CA6F()-(W)VX-(R)
6''	A(L)IXA	CA6F()-(W)VS-(R)	CA6F()-(W)VX-(R)
	A(L)IXB	CA6F()-(W)VS-(R)	CA6F()-(W)VX-(R)
	A(L)IXC	CA6F()-(W)VS-(R)	CA6F()-(W)VX-(R)
	A(L)IXD	CA6F()-(W)VS-(R)	CA6F()-(W)VX-(R)
	A(L) I6	CAI6F()-(W)VS-(R)	CAI6F()-(W)VX-(R)
	A(L)IMC7	CA6F()-(W)VS-(R)	CA6F()-(W)VX-(R)
7''	A(L)IXC7	CA6F()-(W)VS-(R)	CA6F()-(W)VX-(R)
	A(L)IXD7	CA6F()-(W)VS-(R)	CA6F()-(W)VX-(R)
8''	A(L) I8	CAI8F()-(W)VS-(R)	CAI8F()-(W)VX-(R)

(L) = Ladder, (S) for Solid Bottom Trough, () Blank for Ventilated Trough or (4) for 4" Rung Spacing on 6" - 36" wide Ventilated Trough

() = Blank for 0.040" Thickness (standard), (6) for 0.063" Thickness, or (4) for 0.080" Thickness

(W) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

(R) = Radius (12, 18, 24, 36, or 48) denotes desired Radius (in)

ALI6 and ALI8 Fitting Covers have 5" tangents. All other Fittings have 0" tangents.

Examples: CA6F-12VX-24 (Solid Flanged Cover, 12" wide Vertical Cross with 24" radius)



I-BEAM FLAT SOLID FITTING COVERS

Manufactured & Tested In Accordance With NEMA VE-1

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COVER CHARTS

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FLAT SOLID FITTING COVERS



Fitting Covers are not peaked

COVER CHARTS



Fitting Covers are not peaked

FLAT SOLID FITTING COVERS

FLAT SOLID COVERS - HORIZONTAL BENDS

		R	R	R	R
Tray Height	Tray Prefix	Horizontal 90 Degree Bend Flat Solid Cover	Horizontal 60 Degree Bend Flat Solid Cover	Horizontal 45 Degree Bend Flat Solid Cover	Horizontal 30 Degree Bend Flat Solid Cover
	A(L)IJA	CA6S()-(W)H90-(R)	CA6S()-(W)H60-(R)	CA6S()-(W)H45-(R)	CA6S()-(W)H30-(R)
	A(L)IJB	CA6S()-(W)H90-(R)	CA6S()-(W)H60-(R)	CA6S()-(W)H45-(R)	CA6S()-(W)H30-(R)
	A(L)IJC	CA6S()-(W)H90-(R)	CA6S()-(W)H60-(R)	CA6S()-(W)H45-(R)	CA6S()-(W)H30-(R)
4.5"	A(L)IJD	CA6S()-(W)H90-(R)	CA6S()-(W)H60-(R)	CA6S()-(W)H45-(R)	CA6S()-(W)H30-(R)
	A(L)IYA	CA6S()-(W)H90-(R)	CA6S()-(W)H60-(R)	CA6S()-(W)H45-(R)	CA6S()-(W)H30-(R)
	A(L)IYB	CA6S()-(W)H90-(R)	CA6S()-(W)H60-(R)	CA6S()-(W)H45-(R)	CA6S()-(W)H30-(R)
	A(L)IYC	CA6S()-(W)H90-(R)	CA6S()-(W)H60-(R)	CA6S()-(W)H45-(R)	CA6S()-(W)H30-(R)
	A(L)IJC5	CA6S()-(W)H90-(R)	CA6S()-(W)H60-(R)	CA6S()-(W)H45-(R)	CA6S()-(W)H30-(R)
5"	A(L)IYB5	CA6S()-(W)H90-(R)	CA6S()-(W)H60-(R)	CA6S()-(W)H45-(R)	CA6S()-(W)H30-(R)
	A(L)IYC5	CA6S()-(W)H90-(R)	CA6S()-(W)H60-(R)	CA6S()-(W)H45-(R)	CA6S()-(W)H30-(R)
	A(L)IMB	CA6S()-(W)H90-(R)	CA6S()-(W)H60-(R)	CA6S()-(W)H45-(R)	CA6S()-(W)H30-(R)
	A(L)IMC	CA6S()-(W)H90-(R)	CA6S()-(W)H60-(R)	CA6S()-(W)H45-(R)	CA6S()-(W)H30-(R)
	A(L)IMD	CA6S()-(W)H90-(R)	CA6S()-(W)H60-(R)	CA6S()-(W)H45-(R)	CA6S()-(W)H30-(R)
6"	A(L) IXA	CA6S()-(W)H90-(R)	CA6S()-(W)H60-(R)	CA6S()-(W)H45-(R)	CA6S()-(W)H30-(R)
U	A(L)IXB	CA6S()-(W)H90-(R)	CA6S()-(W)H60-(R)	CA6S()-(W)H45-(R)	CA6S()-(W)H30-(R)
	A(L)IXC	CA6S()-(W)H90-(R)	CA6S()-(W)H60-(R)	CA6S()-(W)H45-(R)	CA6S()-(W)H30-(R)
	A(L)IXD	CA6S()-(W)H90-(R)	CA6S()-(W)H60-(R)	CA6S()-(W)H45-(R)	CA6S()-(W)H30-(R)
	A(L) I6	CAI6S()-(W)H90-(R)	CAI6S()-(W)H60-(R)	CAI6S()-(W)H45-(R)	CAI6S()-(W)H30-(R)
	A(L)IMC7	CA6S()-(W)H90-(R)	CA6S()-(W)H60-(R)	CA6S()-(W)H45-(R)	CA6S()-(W)H30-(R)
7"	A(L)IXC7	CA6S()-(W)H90-(R)	CA6S()-(W)H60-(R)	CA6S()-(W)H45-(R)	CA6S()-(W)H30-(R)
	A(L)IXD7	CA6S()-(W)H90-(R)	CA6S()-(W)H60-(R)	CA6S()-(W)H45-(R)	CA6S()-(W)H30-(R)
8''	A(L) I8	CAI8S()-(W)H90-(R)	CAI8S()-(W)H60-(R)	CAI8S()-(W)H45-(R)	CAI8S()-(W)H30-(R)

(L) = Ladder, (S) for Solid Bottom Trough, () Blank for Ventilated Trough or (4) for 4" Rung Spacing on 6" - 36" wide Ventilated Trough

() = Blank for 0.040" Thickness (standard), (6) for 0.063" Thickness, (4) for 0.080" Thickness, (11) for 0.125" Thickness, or (25) for 0.25" Thickness (W) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

(R) = Radius (12, 18, 24, 36, or 48) denotes desired Radius (in)

ALI6 and ALI8 Fitting Covers have 5" tangents. All other Fittings have 0" tangents.

Examples: CA6S-12H90-24 (Flat Solid Cover, 12" wide Horizontal 90 Degree Bend with 24" radius)

FLAT SOLID FITTING COVERS

mphusky

FLAT SOLID COVERS - VERTICAL 90 & 60 DEGREE BENDS

		R	R	R	R
Tray Height	Tray Type	Vertical 90 Degree Inside Bend Flat Solid Cover	Vertical 90 Degree Outside Bend Flat Solid Cover	Vertical 60 Degree Inside Bend Flat Solid Cover	Vertical 60 Degree Outside Bend Flat Solid Cover
	A(L)IJA	CA6S()-(W)VI90-(R)	CA6S()-(W)VO90-(R)	CA6S()-(W)VI60-(R)	CA6S()-(W)VO60-(R)
	A(L)IJB	CA6S()-(W)VI90-(R)	CA6S()-(W)VO90-(R)	CA6S()-(W)VI60-(R)	CA6S()-(W)VO60-(R)
	A(L)IJC	CA6S()-(W)VI90-(R)	CA6S()-(W)VO90-(R)	CA6S()-(W)VI60-(R)	CA6S()-(W)VO60-(R)
4.5"	A(L)IJD	CA6S()-(W)VI90-(R)	CA6S()-(W)VO90-(R)	CA6S()-(W)VI60-(R)	CA6S()-(W)VO60-(R)
	A(L)IYA	CA6S()-(W)VI90-(R)	CA6S()-(W)VO90-(R)	CA6S()-(W)VI60-(R)	CA6S()-(W)VO60-(R)
	A(L)IYB	CA6S()-(W)VI90-(R)	CA6S()-(W)VO90-(R)	CA6S()-(W)VI60-(R)	CA6S()-(W)VO60-(R)
	A(L)IYC	CA6S()-(W)VI90-(R)	CA6S()-(W)VO90-(R)	CA6S()-(W)VI60-(R)	CA6S()-(W)VO60-(R)
	A(L)IJC5	CA6S()-(W)VI90-(R)	CA6S()-(W)VO90-(R)	CA6S()-(W)VI60-(R)	CA6S()-(W)VO60-(R)
5"	A(L)IYB5	CA6S()-(W)VI90-(R)	CA6S()-(W)VO90-(R)	CA6S()-(W)VI60-(R)	CA6S()-(W)VO60-(R)
	A(L)IYC5	CA6S()-(W)VI90-(R)	CA6S()-(W)VO90-(R)	CA6S()-(W)VI60-(R)	CA6S()-(W)VO60-(R)
	A(L)IMB	CA6S()-(W)VI90-(R)	CA6S()-(W)VO90-(R)	CA6S()-(W)VI60-(R)	CA6S()-(W)VO60-(R)
	A(L)IMC	CA6S()-(W)VI90-(R)	CA6S()-(W)VO90-(R)	CA6S()-(W)VI60-(R)	CA6S()-(W)VO60-(R)
	A(L)IMD	CA6S()-(W)VI90-(R)	CA6S()-(W)VO90-(R)	CA6S()-(W)VI60-(R)	CA6S()-(W)VO60-(R)
6"	A(L)IXA	CA6S()-(W)VI90-(R)	CA6S()-(W)VO90-(R)	CA6S()-(W)VI60-(R)	CA6S()-(W)VO60-(R)
	A(L)IXB	CA6S()-(W)VI90-(R)	CA6S()-(W)VO90-(R)	CA6S()-(W)VI60-(R)	CA6S()-(W)VO60-(R)
	A(L)IXC	CA6S()-(W)VI90-(R)	CA6S()-(W)VO90-(R)	CA6S()-(W)VI60-(R)	CA6S()-(W)VO60-(R)
	A(L)IXD	CA6S()-(W)VI90-(R)	CA6S()-(W)VO90-(R)	CA6S()-(W)VI60-(R)	CA6S()-(W)VO60-(R)
	A(L) I6	CAI6S()-(W)VI90-(R)	CAI6S()-(W)VO90-(R)	CAI6S()-(W)VI60-(R)	CAI6S()-(W)VO60-(R)
	A(L)IMC7	CA6S()-(W)VI90-(R)	CA6S()-(W)VO90-(R)	CA6S()-(W)VI60-(R)	CA6S()-(W)VO60-(R)
7''	A(L)IXC7	CA6S()-(W)VI90-(R)	CA6S()-(W)VO90-(R)	CA6S()-(W)VI60-(R)	CA6S()-(W)VO60-(R)
	A(L)IXD7	CA6S()-(W)VI90-(R)	CA6S()-(W)VO90-(R)	CA6S()-(W)VI60-(R)	CA6S()-(W)VO60-(R)
8''	A(L) I8	CAI8S()-(W)VI90-(R)	CAI8S()-(W)VO90-(R)	CAI8S()-(W)VI60-(R)	CAI8S()-(W)VO60-(R)

(L) = Ladder, (S) for Solid Bottom Trough, () Blank for Ventilated Trough or (4) for 4" Rung Spacing on 6" - 36" wide Ventilated Trough

() = Blank for 0.040" Thickness (standard), (6) for 0.063" Thickness, (4) for 0.080" Thickness, (11) for 0.125" Thickness, or (25) for 0.25" Thickness (W) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

(R) = Radius (12, 18, 24, 36, or 48) denotes desired Radius (in)

ALI6 and ALI8 Fitting Covers have 5" tangents. All other Fittings have 0" tangents.

Flat Vertical Covers are not rolled, they are shipped flat and will conform to the Fitting.

Examples: CA6S-12VI90-24 (Flat Solid Cover, 12" wide Vertical Inside 90 Degree Bend with 24" radius)

FLAT SOLID FITTING COVERS

FLAT SOLID COVERS - VERTICAL 45 & 30 DEGREE BENDS

		R	R	R	WR
Tray Height	Tray Type	Vertical 45 Degree Inside Bend Flat Solid Cover	Vertical 45 Degree Outside Bend Flat Solid Cover	Vertical 30 Degree Inside Bend Flat Solid Cover	Vertical 30 Degree Outside Bend Flat Solid Cover
	A(L)IJA	CA6S()-(W)VI45-(R)	CA6S()-(W)VO45-(R)	CA6S()-(W)VI30-(R)	CA6S()-(W)VO30-(R)
	A(L)IJB	CA6S()-(W)VI45-(R)	CA6S()-(W)VO45-(R)	CA6S()-(W)VI30-(R)	CA6S()-(W)VO30-(R)
	A(L)IJC	CA6S()-(W)VI45-(R)	CA6S()-(W)VO45-(R)	CA6S()-(W)VI30-(R)	CA6S()-(W)VO30-(R)
4.5"	A(L)IJD	CA6S()-(W)VI45-(R)	CA6S()-(W)VO45-(R)	CA6S()-(W)VI30-(R)	CA6S()-(W)VO30-(R)
	A(L)IYA	CA6S()-(W)VI45-(R)	CA6S()-(W)VO45-(R)	CA6S()-(W)VI30-(R)	CA6S()-(W)VO30-(R)
	A(L)IYB	CA6S()-(W)VI45-(R)	CA6S()-(W)VO45-(R)	CA6S()-(W)VI30-(R)	CA6S()-(W)VO30-(R)
	A(L)IYC	CA6S()-(W)VI45-(R)	CA6S()-(W)VO45-(R)	CA6S()-(W)VI30-(R)	CA6S()-(W)VO30-(R)
	A(L)IJC5	CA6S()-(W)VI45-(R)	CA6S()-(W)VO45-(R)	CA6S()-(W)VI30-(R)	CA6S()-(W)VO30-(R)
5"	A(L)IYB5	CA6S()-(W)VI45-(R)	CA6S()-(W)VO45-(R)	CA6S()-(W)VI30-(R)	CA6S()-(W)VO30-(R)
	A(L)IYC5	CA6S()-(W)VI45-(R)	CA6S()-(W)VO45-(R)	CA6S()-(W)VI30-(R)	CA6S()-(W)VO30-(R)
	A(L)IMB	CA6S()-(W)VI45-(R)	CA6S()-(W)VO45-(R)	CA6S()-(W)VI30-(R)	CA6S()-(W)VO30-(R)
	A(L)IMC	CA6S()-(W)VI45-(R)	CA6S()-(W)VO45-(R)	CA6S()-(W)VI30-(R)	CA6S()-(W)VO30-(R)
	A(L)IMD	CA6S()-(W)VI45-(R)	CA6S()-(W)VO45-(R)	CA6S()-(W)VI30-(R)	CA6S()-(W)VO30-(R)
6"	A(L) IXA	CA6S()-(W)VI45-(R)	CA6S()-(W)VO45-(R)	CA6S()-(W)VI30-(R)	CA6S()-(W)VO30-(R)
Ŭ	A(L)IXB	CA6S()-(W)VI45-(R)	CA6S()-(W)VO45-(R)	CA6S()-(W)VI30-(R)	CA6S()-(W)VO30-(R)
	A(L) IXC	CA6S()-(W)VI45-(R)	CA6S()-(W)VO45-(R)	CA6S()-(W)VI30-(R)	CA6S()-(W)VO30-(R)
	A(L)IXD	CA6S()-(W)VI45-(R)	CA6S()-(W)VO45-(R)	CA6S()-(W)VI30-(R)	CA6S()-(W)VO30-(R)
	A(L) I6	CAI6S()-(W)VI45-(R)	CAI6S()-(W)VO45-(R)	CAI6S()-(W)VI30-(R)	CAI6S()-(W)VO30-(R)
	A(L)IMC7	CA6S()-(W)VI45-(R)	CA6S()-(W)VO45-(R)	CA6S()-(W)VI30-(R)	CA6S()-(W)VO30-(R)
7"	A(L)IXC7	CA6S()-(W)VI45-(R)	CA6S()-(W)VO45-(R)	CA6S()-(W)VI30-(R)	CA6S()-(W)VO30-(R)
	A(L)IXD7	CA6S()-(W)VI45-(R)	CA6S()-(W)VO45-(R)	CA6S()-(W)VI30-(R)	CA6S()-(W)VO30-(R)
8''	A(L) I8	CAI8S()-(W)VI45-(R)	CAI8S()-(W)VO45-(R)	CAI8S()-(W)VI30-(R)	CAI8S()-(W)VO30-(R)

(L) = Ladder, (S) for Solid Bottom Trough, () Blank for Ventilated Trough or (4) for 4" Rung Spacing on 6" - 36" wide Ventilated Trough () = Blank for 0.040" Thickness (standard), (6) for 0.063" Thickness, (4) for 0.080" Thickness, (11) for 0.125" Thickness, or (25) for 0.25" Thickness (W) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

(R) = Radius (12, 18, 24, 36, or 48) denotes desired Radius (in)

ALI6 and ALI8 Fitting Covers have 5" tangents. All other Fittings have 0" tangents.

Flat Vertical Covers are not rolled, they are shipped flat and will conform to the Fitting.

Examples: CA6S-12VI45-24 (Flat Solid Cover, 12" wide Vertical Inside 45 Degree Bend with 24" radius)

FLAT SOLID FITTING COVERS

mphusky

FLAT SOLID COVERS - TEES

		W R W	W R W1	W R W1
Tray Height	Tray Type	Horizontal Tee Flat Solid Cover	Horizontal Reducing Tee Flat Solid Cover	Horizontal Enlarging Tee Flat Solid Cover
4.5"	A(L)IJA	CA6S()-(W)T-(R)	CA6S()-(W)T(W1)-(R)	CA6S()-(W)T(W1)-(R)
	A(L)IJB	CA6S()-(W)T-(R)	CA6S()-(W)T(W1)-(R)	CA6S()-(W)T(W1)-(R)
	A(L)IJC	CA6S()-(W)T-(R)	CA6S()-(W)T(W1)-(R)	CA6S()-(W)T(W1)-(R)
	A(L)IJD	CA6S()-(W)T-(R)	CA6S()-(W)T(W1)-(R)	CA6S()-(W)T(W1)-(R)
	A(L)IYA	CA6S()-(W)T-(R)	CA6S()-(W)T(W1)-(R)	CA6S()-(W)T(W1)-(R)
	A(L)IYB	CA6S()-(W)T-(R)	CA6S()-(W)T(W1)-(R)	CA6S()-(W)T(W1)-(R)
	A(L)IYC	CA6S()-(W)T-(R)	CA6S()-(W)T(W1)-(R)	CA6S()-(W)T(W1)-(R)
5"	A(L)IJC5	CA6S()-(W)T-(R)	CA6S()-(W)T(W1)-(R)	CA6S()-(W)T(W1)-(R)
	A(L)IYB5	CA6S()-(W)T-(R)	CA6S()-(W)T(W1)-(R)	CA6S()-(W)T(W1)-(R)
	A(L)IYC5	CA6S()-(W)T-(R)	CA6S()-(W)T(W1)-(R)	CA6S()-(W)T(W1)-(R)
6''	A(L)IMB	CA6S()-(W)T-(R)	CA6S()-(W)T(W1)-(R)	CA6S()-(W)T(W1)-(R)
	A(L)IMC	CA6S()-(W)T-(R)	CA6S()-(W)T(W1)-(R)	CA6S()-(W)T(W1)-(R)
	A(L)IMD	CA6S()-(W)T-(R)	CA6S()-(W)T(W1)-(R)	CA6S()-(W)T(W1)-(R)
	A(L)IXA	CA6S()-(W)T-(R)	CA6S()-(W)T(W1)-(R)	CA6S()-(W)T(W1)-(R)
Ū	A(L)IXB	CA6S()-(W)T-(R)	CA6S()-(W)T(W1)-(R)	CA6S()-(W)T(W1)-(R)
	A(L)IXC	CA6S()-(W)T-(R)	CA6S()-(W)T(W1)-(R)	CA6S()-(W)T(W1)-(R)
	A(L)IXD	CA6S()-(W)T-(R)	CA6S()-(W)T(W1)-(R)	CA6S()-(W)T(W1)-(R)
	A(L) I6	CAI6S()-(W)T-(R)	CAI6S()-(W)T(W1)-(R)	CAI6S()-(W)T(W1)-(R)
	A(L)IMC7	CA6S()-(W)T-(R)	CA6S()-(W)T(W1)-(R)	CA6S()-(W)T(W1)-(R)
7"	A(L)IXC7	CA6S()-(W)T-(R)	CA6S()-(W)T(W1)-(R)	CA6S()-(W)T(W1)-(R)
	A(L)IXD7	CA6S()-(W)T-(R)	CA6S()-(W)T(W1)-(R)	CA6S()-(W)T(W1)-(R)
8''	A(L) I8	CAI8S()-(W)T-(R)	CAI8S()-(W)T(W1)-(R)	CAI8S()-(W)T(W1)-(R)

(L) = Ladder, (S) for Solid Bottom Trough, () Blank for Ventilated Trough or (4) for 4" Rung Spacing on 6" - 36" wide Ventilated Trough () = Blank for 0.040" Thickness (standard), (6) for 0.063" Thickness, (4) for 0.080" Thickness, (11) for 0.125" Thickness, or (25) for 0.25" Thickness (W) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

(W1) = Second Width (6, 9, 12, 18, 24, 30, or 36) denotes desired width (in) (W1) = Second Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

(R) =Radius (12, 18, 24, 36, or 48) denotes desired Radius (in)

ALI6 and ALI8 Fitting Covers have 5" tangents. All other Fittings have 0" tangents.

ALIO and ALIO I fung Covers have 5 tangents. An other I fungs have 0 tangents.

Examples: CA6S-12T-24 (Flat Solid Cover, 12" wide Horizontal Tee with 24" radius)

FLAT SOLID FITTING COVERS

FLAT SOLID COVERS - CROSSES

		W R W	W R W1	W R W1
Tray Height	Tray Type	Horizontal Cross Flat Solid Cover	Horizontal Reducing Cross Flat Solid Cover	Horizontal Enlarging Cross Flat Solid Cover
4.5"	A(L)IJA	CA6S()-(W)X-(R)	CA6S()-(W)X(W1)-(R)	CA6S()-(W)X(W1)-(R)
	A(L)IJB	CA6S()-(W)X-(R)	CA6S()-(W)X(W1)-(R)	CA6S()-(W)X(W1)-(R)
	A(L)IJC	CA6S()-(W)X-(R)	CA6S()-(W)X(W1)-(R)	CA6S()-(W)X(W1)-(R)
	A(L)IJD	CA6S()-(W)X-(R)	CA6S()-(W)X(W1)-(R)	CA6S()-(W)X(W1)-(R)
	A(L)IYA	CA6S()-(W)X-(R)	CA6S()-(W)X(W1)-(R)	CA6S()-(W)X(W1)-(R)
	A(L)IYB	CA6S()-(W)X-(R)	CA6S()-(W)X(W1)-(R)	CA6S()-(W)X(W1)-(R)
	A(L)IYC	CA6S()-(W)X-(R)	CA6S()-(W)X(W1)-(R)	CA6S()-(W)X(W1)-(R)
5"	A(L)IJC5	CA6S()-(W)X-(R)	CA6S()-(W)X(W1)-(R)	CA6S()-(W)X(W1)-(R)
	A(L)IYB5	CA6S()-(W)X-(R)	CA6S()-(W)X(W1)-(R)	CA6S()-(W)X(W1)-(R)
	A(L)IYC5	CA6S()-(W)X-(R)	CA6S()-(W)X(W1)-(R)	CA6S()-(W)X(W1)-(R)
	A(L)IMB	CA6S()-(W)X-(R)	CA6S()-(W)X(W1)-(R)	CA6S()-(W)X(W1)-(R)
	A(L)IMC	CA6S()-(W)X-(R)	CA6S()-(W)X(W1)-(R)	CA6S()-(W)X(W1)-(R)
	A(L)IMD	CA6S()-(W)X-(R)	CA6S()-(W)X(W1)-(R)	CA6S()-(W)X(W1)-(R)
6"	A(L)IXA	CA6S()-(W)X-(R)	CA6S()-(W)X(W1)-(R)	CA6S()-(W)X(W1)-(R)
0	A(L)IXB	CA6S()-(W)X-(R)	CA6S()-(W)X(W1)-(R)	CA6S()-(W)X(W1)-(R)
	A(L)IXC	CA6S()-(W)X-(R)	CA6S()-(W)X(W1)-(R)	CA6S()-(W)X(W1)-(R)
	A(L)IXD	CA6S()-(W)X-(R)	CA6S()-(W)X(W1)-(R)	CA6S()-(W)X(W1)-(R)
	A(L) I6	CAI6S()-(W)X-(R)	CAI6S()-(W)X(W1)-(R)	CAI6S()-(W)X(W1)-(R)
	A(L)IMC7	CA6S()-(W)X-(R)	CA6S()-(W)X(W1)-(R)	CA6S()-(W)X(W1)-(R)
7"	A(L)IXC7	CA6S()-(W)X-(R)	CA6S()-(W)X(W1)-(R)	CA6S()-(W)X(W1)-(R)
	A(L)IXD7	CA6S()-(W)X-(R)	CA6S()-(W)X(W1)-(R)	CA6S()-(W)X(W1)-(R)
8''	A(L) I8	CAI8S()-(W)X-(R)	CAI8S()-(W)X(W1)-(R)	CAI8S()-(W)X(W1)-(R)

(L) = Ladder, (S) for Solid Bottom Trough, () Blank for Ventilated Trough or (4) for 4" Rung Spacing on 6" - 36" wide Ventilated Trough

() = Blank for 0.040" Thickness (standard), (6) for 0.063" Thickness, (4) for 0.080" Thickness, (11) for 0.125" Thickness, or (25) for 0.25" Thickness (W) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

(W1) = Second Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

(R) = Radius (12, 18, 24, 36, or 48) denotes desired Radius (in)

ALI6 and ALI8 Fitting Covers have 5" tangents. All other Fittings have 0" tangents.

Examples: CA6S-12X-24 (Flat Solid Cover, 12" wide Horizontal Cross with 24" radius)

FLAT SOLID FITTING COVERS

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FLAT SOLID COVERS - REDUCERS

		LENGTH = 12" W W1	LENGTH = 12" W W1	LENGTH = 12" W W1
Tray Height	Tray Type	Straight (Concentric) Reducer Flat Solid Cover	Right Hand (Eccentric) Reducer Flat Solid Cover	Left Hand (Eccentric) Reducer Flat Solid Cover
	A(L)IJA	CA6S()-(W)R(W1)	CA6S()-(W)RR(W1)	CA6S()-(W)RL(W1)
4.5"	A(L)IJB	CA6S()-(W)R(W1)	CA6S()-(W)RR(W1)	CA6S()-(W)RL(W1)
	A(L)IJC	CA6S()-(W)R(W1)	CA6S()-(W)RR(W1)	CA6S()-(W)RL(W1)
	A(L)IJD	CA6S()-(W)R(W1)	CA6S()-(W)RR(W1)	CA6S()-(W)RL(W1)
	A(L)IYA	CA6S()-(W)R(W1)	CA6S()-(W)RR(W1)	CA6S()-(W)RL(W1)
	A(L)IYB	CA6S()-(W)R(W1)	CA6S()-(W)RR(W1)	CA6S()-(W)RL(W1)
	A(L)IYC	CA6S()-(W)R(W1)	CA6S()-(W)RR(W1)	CA6S()-(W)RL(W1)
5"	A(L)IJC5	CA6S()-(W)R(W1)	CA6S()-(W)RR(W1)	CA6S()-(W)RL(W1)
	A(L)IYB5	CA6S()-(W)R(W1)	CA6S()-(W)RR(W1)	CA6S()-(W)RL(W1)
	A(L)IYC5	CA6S()-(W)R(W1)	CA6S()-(W)RR(W1)	CA6S()-(W)RL(W1)
	A(L)IMB	CA6S()-(W)R(W1)	CA6S()-(W)RR(W1)	CA6S()-(W)RL(W1)
	A(L)IMC	CA6S()-(W)R(W1)	CA6S()-(W)RR(W1)	CA6S()-(W)RL(W1)
	A(L)IMD	CA6S()-(W)R(W1)	CA6S()-(W)RR(W1)	CA6S()-(W)RL(W1)
6"	A(L) IXA	CA6S()-(W)R(W1)	CA6S()-(W)RR(W1)	CA6S()-(W)RL(W1)
Ŭ	A(L)IXB	CA6S()-(W)R(W1)	CA6S()-(W)RR(W1)	CA6S()-(W)RL(W1)
	A(L) IXC	CA6S()-(W)R(W1)	CA6S()-(W)RR(W1)	CA6S()-(W)RL(W1)
	A(L) IXD	CA6S()-(W)R(W1)	CA6S()-(W)RR(W1)	CA6S()-(W)RL(W1)
	A(L) I6	CAI6S()-(W)R(W1)	CAI6S()-(W)RR(W1)	CAI6S()-(W)RL(W1)
7''	A(L)IMC7	CA6S()-(W)R(W1)	CA6S()-(W)RR(W1)	CA6S()-(W)RL(W1)
	A(L)IXC7	CA6S()-(W)R(W1)	CA6S()-(W)RR(W1)	CA6S()-(W)RL(W1)
	A(L)IXD7	CA6S()-(W)R(W1)	CA6S()-(W)RR(W1)	CA6S()-(W)RL(W1)
8''	A(L) I8	CAI8S()-(W)R(W1)	CAI8S()-(W)RR(W1)	CAI8S()-(W)RL(W1)

(L) = Ladder, (S) for Solid Bottom Trough, () Blank for Ventilated Trough or (4) for 4" Rung Spacing on 6" - 36" wide Ventilated Trough () = Blank for 0.040" Thickness (standard), (6) for 0.063" Thickness, (4) for 0.080" Thickness, (11) for 0.125" Thickness, or (25) for 0.25" Thickness

(W) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

(W1) = Second Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

ALI6 and ALI8 Reducer Covers are 24" long. All other I-Beam Reducer Covers are 12" long.

Examples: CA6S-12R6 (Flat Solid Cover, 12" wide to 6" wide Straight Reducer)
FLAT SOLID FITTING COVERS

FLAT SOLID COVERS - VERTICAL TEES

		W	R
Tray Height	Tray Type	Vertical Tee Turns Down Flat Solid Cover	Vertical Tee Turns Up Flat Solid Cover
	A(L)IJA	CA6S()-(W)VT-(R)	CA6S()-(W)VTU-(R)
	A(L)IJB	CA6S()-(W)VT-(R)	CA6S()-(W)VTU-(R)
	A(L)IJC	CA6S()-(W)VT-(R)	CA6S()-(W)VTU-(R)
4.5"	A(L)IJD	CA6S()-(W)VT-(R)	CA6S()-(W)VTU-(R)
	A(L)IYA	CA6S()-(W)VT-(R)	CA6S()-(W)VTU-(R)
	A(L)IYB	CA6S()-(W)VT-(R)	CA6S()-(W)VTU-(R)
	A(L)IYC	CA6S()-(W)VT-(R)	CA6S()-(W)VTU-(R)
	A(L)IJC5	CA6S()-(W)VT-(R)	CA6S()-(W)VTU-(R)
5''	A(L)IYB5	CA6S()-(W)VT-(R)	CA6S()-(W)VTU-(R)
	A(L)IYC5	CA6S()-(W)VT-(R)	CA6S()-(W)VTU-(R)
	A(L)IMB	CA6S()-(W)VT-(R)	CA6S()-(W)VTU-(R)
	A(L)IMC	CA6S()-(W)VT-(R)	CA6S()-(W)VTU-(R)
	A(L)IMD	CA6S()-(W)VT-(R)	CA6S()-(W)VTU-(R)
6"	A(L) IXA	CA6S()-(W)VT-(R)	CA6S()-(W)VTU-(R)
Ū	A(L)IXB	CA6S()-(W)VT-(R)	CA6S()-(W)VTU-(R)
	A(L) IXC	CA6S()-(W)VT-(R)	CA6S()-(W)VTU-(R)
	A(L)IXD	CA6S()-(W)VT-(R)	CA6S()-(W)VTU-(R)
	A(L) I6	CAI6S()-(W)VT-(R)	CAI6S()-(W)VTU-(R)
	A(L)IMC7	CA6S()-(W)VT-(R)	CA6S()-(W)VTU-(R)
7"	A(L)IXC7	CA6S()-(W)VT-(R)	CA6S()-(W)VTU-(R)
	A(L)IXD7	CA6S()-(W)VT-(R)	CA6S()-(W)VTU-(R)
8''	A(L) I8	CAI8S()-(W)VT-(R)	CAI8S()-(W)VTU-(R)

(L) = Ladder, (S) for Solid Bottom Trough, () Blank for Ventilated Trough or (4) for 4" Rung Spacing on 6" - 36" wide Ventilated Trough () = Blank for 0.040" Thickness (standard), (6) for 0.063" Thickness, (4) for 0.080" Thickness, (11) for 0.125" Thickness, or (25) for 0.25" Thickness (W) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

(R) = Radius (12, 18, 24, 36, or 48) denotes desired Radius (in)

ALI6 and ALI8 Fitting Covers have 5" tangents. All other Fittings have 0" tangents.

Flat Vertical Covers are not rolled, they are shipped flat and will conform to the Fitting.

Examples: CA6S-12VT-24 (Flat Solid Cover, 12" wide Vertical Tee with 24" radius)

FLAT SOLID FITTING COVERS

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FLAT SOLID COVERS - VERTICAL SUPPORT ELBOWS & VERTICAL CROSSES

		W	R R W W
Tray Tray Height Type		Vertical Support 90 Fitting Flat Solid Cover	Vertical Cross Flat Solid Cover
	A(L)IJA	CA6S()-(W)VS-(R)	CA6S()-(W)VX-(R)
	A(L)IJB	CA6S()-(W)VS-(R)	CA6S()-(W)VX-(R)
	A(L)IJC	CA6S()-(W)VS-(R)	CA6S()-(W)VX-(R)
4.5"	A(L)IJD	CA6S()-(W)VS-(R)	CA6S()-(W)VX-(R)
	A(L)IYA	CA6S()-(W)VS-(R)	CA6S()-(W)VX-(R)
	A(L)IYB	CA6S()-(W)VS-(R)	CA6S()-(W)VX-(R)
	A(L)IYC	CA6S()-(W)VS-(R)	CA6S()-(W)VX-(R)
	A(L)IJC5	CA6S()-(W)VS-(R)	CA6S()-(W)VX-(R)
5"	A(L)IYB5	CA6S()-(W)VS-(R)	CA6S()-(W)VX-(R)
	A(L)IYC5	CA6S()-(W)VS-(R)	CA6S()-(W)VX-(R)
	A(L)IMB	CA6S()-(W)VS-(R)	CA6S()-(W)VX-(R)
	A(L)IMC	CA6S()-(W)VS-(R)	CA6S()-(W)VX-(R)
	A(L)IMD	CA6S()-(W)VS-(R)	CA6S()-(W)VX-(R)
6"	A(L) IXA	CA6S()-(W)VS-(R)	CA6S()-(W)VX-(R)
	A(L) IXB	CA6S()-(W)VS-(R)	CA6S()-(W)VX-(R)
	A(L) IXC	CA6S()-(W)VS-(R)	CA6S()-(W)VX-(R)
	A(L)IXD	CA6S()-(W)VS-(R)	CA6S()-(W)VX-(R)
	A(L) I6	CAI6S()-(W)VS-(R)	CAI6S()-(W)VX-(R)
	A(L)IMC7	CA6S()-(W)VS-(R)	CA6S()-(W)VX-(R)
7"	A(L)IXC7	CA6S()-(W)VS-(R)	CA6S()-(W)VX-(R)
	A(L)IXD7	CA6S()-(W)VS-(R)	CA6S()-(W)VX-(R)
8''	A(L) I8	CAI8S()-(W)VS-(R)	CAI8S()-(W)VX-(R)

(L) = Ladder, (S) for Solid Bottom Trough, () Blank for Ventilated Trough or (4) for 4" Rung Spacing on 6" - 36" wide Ventilated Trough

() = Blank for 0.040" Thickness (standard), (6) for 0.063" Thickness, (4) for 0.080" Thickness, (11) for 0.125" Thickness, or (25) for 0.25" Thickness (W) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

(R) = Radius (12, 18, 24, 36, or 48) denotes desired Radius (in)

ALI6 and ALI8 Fitting Covers have 5" tangents. All other Fittings have 0" tangents.

Flat Vertical Covers are not rolled they are shipped flat and will conform to the Fitting.

Examples: CA6S-12VX-24 (Flat Solid Cover, 12" wide Vertical Cross with 24" radius)



I-BEAM COVER CLAMPS & ACCESSORIES

Manufactured & Tested In Accordance With NEMA VE-1

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COVER CLAMPS & ACCESSORIES

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COVER CLAMPS

		6ECC-R			
Tray Height	Tray Type	Cover Clips (Stainless Steel)	Bar Style Cover Clamp (Aluminum with Stainless Hardware)	Double Bar Style Cover Clamp (Aluminum with Stainless Hardware)	Bar Style Peaked Cover Clamp (Aluminum with Stainless Hardware)
	A()IJA	6ECC-R	AHC-(W)-IJA	2AHC-(W)-IJA	AHC-(0)P-(W)-IJA
	A()IJB	6ECC-R	AHC-(W)-IJA	2AHC-(W)-IJA	AHC-(0)P-(W)-IJA
	A()IJC	6ECC-R	AHC-(W)-IJC	2AHC-(W)-IJC	AHC-(0)P-(W)-IJC
4.5"	A()IJD	6ECC-R	AHC-(W)-IJC	2AHC-(W)-IJC	AHC-(0)P-(W)-IJC
	A()IYA	6ECC-R	AHC-(W)-IYC	2AHC-(W)-IYC	AHC-(0)P-(W)-IYC
	A()IYB	6ECC-R	AHC-(W)-IYC	2AHC-(W)-IYC	AHC-(0)P-(W)-IYC
	A()IYC	6ECC-R	AHC-(W)-IYC	2AHC-(W)-IYC	AHC-(0)P-(W)-IYC
	A()IJC5	6ECC-R	AHC-(W)-IYC5	2AHC-(W)-IYC5	AHC-(0)P-(W)-IYC5
5"	A()IYB5	6ECC-R	AHC-(W)-IYC5	2AHC-(W)-IYC5	AHC-(0)P-(W)-IYC5
	A()IYC5	6ECC-R	AHC-(W)-IYC5	2AHC-(W)-IYC5	AHC-(0)P-(W)-IYC5
	A()IMB	6ECC-R	AHC-(W)-IMC	2AHC-(W)-IMC	AHC-(0)P-(W)-IMC
	A()IMC	6ECC-R	AHC-(W)-IMC	2AHC-(W)-IMC	AHC-(0)P-(W)-IMC
	A()IMD	6ECC-R	AHC-(W)-IMC	2AHC-(W)-IMC	AHC-(0)P-(W)-IMC
6"	A()IXA	6ECC-R	AHC-(W)-IMC	2AHC-(W)-IMC	AHC-(0)P-(W)-IMC
Ū	A()IXB	6ECC-R	AHC-(W)-IMC	2AHC-(W)-IMC	AHC-(0)P-(W)-IMC
	A()IXC	6ECC-R	AHC-(W)-IMC	2AHC-(W)-IMC	AHC-(0)P-(W)-IMC
	A()IXD	6ECC-R	AHC-(W)-IMC	2AHC-(W)-IMC	AHC-(0)P-(W)-IMC
	A() I6	6ECC-E	AHC-(W)-I6	2AHC-(W)-I6	AHC-(0)P-(W)-I6
	A() IMC7	6ECC-R	AHC-(W)-IXD7	2AHC-(W)-IXD7	AHC-(0)P-(W)-IXD7
7''	A() IXC7	6ECC-R	AHC-(W)-IXD7	2AHC-(W)-IXD7	AHC-(0)P-(W)-IXD7
	A() IXD7	6ECC-R	AHC-(W)-IXD7	2AHC-(W)-IXD7	AHC-(0)P-(W)-IXD7
8''	A() I8	6ЕСС-Е	AHC-(W)-I8	2AHC-(W)-I8	AHC-(0)P-(W)-I8

(W) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

(0) = Insert Peak Height Example: (0) for 1/2" High Peak, (2) for 2" High Peak

Fitting Covers are not peaked

COVER CLAMPS

Tray Height	Tray Type	Double Bar Peaked Cover Clamp (Aluminum with Stainless Hardware)	Heavy Duty Raised Double Bar Cover Clamp (Aluminum with Stainless Hardware)	Heavy Duty Raised Double Bar Peaked Cover Clamp (Aluminum with Stainless Hardware)	Raised Cover Clamps (Mill Galvanized)
	A()IJA	2AHC-(0)P-(W)-IJA	2AHC-(W)-IJA-R(H)	2AHC-(0)P-(W)-IJA-R(H)	RCC-IJB-(H)()
	A()IJB	2AHC-(0)P-(W)-IJA	2AHC-(W)-IJA-R(H)	2AHC-(0)P-(W)-IJA-R(H)	RCC-IJB-(H)()
	A()IJC	2AHC-(0)P-(W)-IJC	2AHC-(W)-IJC-R(H)	2AHC-(0)P-(W)-IJC-R(H)	RCC-IYC-(H)()
4.5"	A()IJD	2AHC-(0)P-(W)-IJC	2AHC-(W)-IJC-R(H)	2AHC-(0)P-(W)-IJC-R(H)	RCC-IYC-(H)()
	A()IYA	2AHC-(0)P-(W)-IYC	2AHC-(W)-IYC-R(H)	2AHC-(0)P-(W)-IYC-R(H)	RCC-IYC-(H)()
	A()IYB	2AHC-(0)P-(W)-IYC	2AHC-(W)-IYC-R(H)	2AHC-(0)P-(W)-IYC-R(H)	RCC-IYC-(H)()
	A()IYC	2AHC-(0)P-(W)-IYC	2AHC-(W)-IYC-R(H)	2AHC-(0)P-(W)-IYC-R(H)	RCC-IYC-(H)()
	A()IJC5	2AHC-(0)P-(W)-IYC5	2AHC-(W)-IYC5-R(H)	2AHC-(0)P-(W)-IYC5-R(H)	
5"	A() IYB5	2AHC-(0)P-(W)-IYC5	2AHC-(W)-IYC5-R(H)	2AHC-(0)P-(W)-IYC5-R(H)	RCC-IXD-(H)()
	A()IYC5	2AHC-(0)P-(W)-IYC5	2AHC-(W)-IYC5-R(H)	2AHC-(0)P-(W)-IYC5-R(H)	RCC-IXD-(H)()
	A()IMB	2AHC-(0)P-(W)-IMC	2AHC-(W)-IMC-R(H)	2AHC-(0)P-(W)-IMC-R(H)	RCC-IXD-(H)()
	A()IMC	2AHC-(0)P-(W)-IMC	2AHC-(W)-IMC-R(H)	2AHC-(0)P-(W)-IMC-R(H)	RCC-IXD-(H)()
	A()IMD	2AHC-(0)P-(W)-IMC	2AHC-(W)-IMC-R(H)	2AHC-(0)P-(W)-IMC-R(H)	RCC-IXD-(H)()
6"	A()IXA	2AHC-(0)P-(W)-IMC	2AHC-(W)-IMC-R(H)	2AHC-(0)P-(W)-IMC-R(H)	RCC-IXD-(H)()
	A()IXB	2AHC-(0)P-(W)-IMC	2AHC-(W)-IMC-R(H)	2AHC-(0)P-(W)-IMC-R(H)	RCC-IXD-(H)()
	A()IXC	2AHC-(0)P-(W)-IMC	2AHC-(W)-IMC-R(H)	2AHC-(0)P-(W)-IMC-R(H)	RCC-IXD-(H)()
	A()IXD	2AHC-(0)P-(W)-IMC	2AHC-(W)-IMC-R(H)	2AHC-(0)P-(W)-IMC-R(H)	RCC-IXD-(H)()
	A() I6	2AHC-(0)P-(W)-I6	2AHC-(W)-I6-R(H)	2AHC-(0)P-(W)-I6-R(H)	RCC-IXD-(H)()
	A() IMC7	2AHC-(0)P-(W)-IXD7	2AHC-(W)-IXD7-R(H)	2AHC-(0)P-(W)-IXD7-R(H)	RCC-IXD-(H)()
7''	A() IXC7	2AHC-(0)P-(W)-IXD7	2AHC-(W)-IXD7-R(H)	2AHC-(0)P-(W)-IXD7-R(H)	RCC-IXD-(H)()
	A() IXD7	2AHC-(0)P-(W)-IXD7	2AHC-(W)-IXD7-R(H)	2AHC-(0)P-(W)-IXD7-R(H)	RCC-IXD-(H)()
8''	A() I8	2AHC-(0)P-(W)-I8	2AHC-(W)-I8-R(H)	2AHC-(0)P-(W)-I8-R(H)	RCC-IXD-(H)()

(W) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

(0) = Insert Peak Height: Example: (0) for 1/2" High Peak, (2) for 2" High Peak

Fitting Covers are not peaked

(H) = Cover Spacer Height: Example: (1) for 1" high, (2) for 2" high

() = Blank for standard Zinc-Plated Hardware, (-6S) for 316 Stainless Steel or (-SB) for Silicon Bronze.

COVER CLAMPS & ACCESSORIES

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COVER HARDWARE

Tray Height	Тгау Туре	Cover Screw #10 x 5/8" Hex head self-drilling self-tapping (410 Stainless)	Cover Screw #8 x 1/2" Phillips head self-drilling self-tapping (Zinc-Plated)	Cover Screw #8 x 1/2" Phillips head self-drilling self-tapping (410 Stainless)	Cover Screw #6 x 3/8" Phillips head self-drilling self-tapping (Zinc-Plated)
	A()IJA	B-55-SS	B-37	B-37-SS	B-26
	A()IJB	B-55-SS	В-37	B-37-SS	B-26
	A()IJC	B-55-SS	B-37	B-37-SS	B-26
4.5"	A()IJD	B-55-SS	B-37	B-37-SS	B-26
	A()IYA	B-55-SS	В-37	B-37-SS	B-26
	A()IYB	B-55-SS	В-37	B-37-SS	B-26
	A()IYC	B-55-SS	В-37	B-37-SS	B-26
	A()IJC5	B-55-SS	В-37	B-37-SS	B-26
5"	A() IYB5	B-55-SS	В-37	B-37-SS	B-26
	A()IYC5	B-55-SS	B-37	B-37-SS	B-26
	A()IMB	B-55-SS	B-37	B-37-SS	B-26
	A()IMC	B-55-SS	B-37	B-37-SS	B-26
	A()IMD	B-55-SS	B-37	B-37-SS	B-26
6"	A()IXA	B-55-SS	B-37	B-37-SS	B-26
0	A() IXB	B-55-SS	B-37	B-37-SS	B-26
	A()IXC	B-55-SS	В-37	B-37-SS	B-26
	A()IXD	B-55-SS	B-37	B-37-SS	B-26
	A() I6	B-55-SS	B-37	B-37-SS	B-26
	A()IMC7	B-55-SS	B-37	B-37-SS	B-26
7"	A()IXC7	B-55-SS	B-37	B-37-SS	B-26
	A()IXD7	B-55-SS	B-37	B-37-SS	B-26
8''	A() I8	B-55-SS	B-37	B-37-SS	B-26

COVER CLAMPS & ACCESSORIES

COVER SPLICES & END CAPS

Tray Height	Tray Type	Slip-on Cover Splice Connector (Aluminum)	End Caps for Peaked Covers To Flat Covers (Aluminum)
	A()IJA	ASP-VS-(W)	C(0)P-A6-(W)-EC
	A()IJB	ASP-VS-(W)	C(0)P-A6-(W)-EC
	A()IJC	ASP-VS-(W)	C(0)P-A6-(W)-EC
4.5"	A()IJD	ASP-VS-(W)	C(0)P-A6-(W)-EC
	A()IYA	ASP-VS-(W)	C(0)P-A6-(W)-EC
	A()IYB	ASP-VS-(W)	C(0)P-A6-(W)-EC
	A()IYC	ASP-VS-(W)	C(0)P-A6-(W)-EC
	A()IJC5	ASP-VS-(W)	C(0)P-A6-(W)-EC
5"	A() IYB5	ASP-VS-(W)	C(0)P-A6-(W)-EC
	A()IYC5	ASP-VS-(W)	C(0)P-A6-(W)-EC
	A()IMB	ASP-VS-(W)	C(0)P-A6-(W)-EC
	A()IMC	ASP-VS-(W)	C(0)P-A6-(W)-EC
	A()IMD	ASP-VS-(W)	C(0)P-A6-(W)-EC
6''	A()IXA	ASP-VS-(W)	C(0)P-A6-(W)-EC
U	A()IXB	ASP-VS-(W)	C(0)P-A6-(W)-EC
	A()IXC	ASP-VS-(W)	C(0)P-A6-(W)-EC
	A()IXD	ASP-VS-(W)	C(0)P-A6-(W)-EC
	A() I6	ASP-VS-(W)	C(0)P-AI6-(W)-EC
	A() IMC7	ASP-VS-(W)	C(0)P-A6-(W)-EC
7"	A() IXC7	ASP-VS-(W)	C(0)P-A6-(W)-EC
	A()IXD7	ASP-VS-(W)	C(0)P-A6-(W)-EC
8"	A() I8	ASP-VS-(W)	C(0)P-AI8-(W)-EC

(W) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in).

(0) = Insert Peak Height: Example: (0) for 1/2" High Peak, (2) for 2" High Peak

Fitting Covers are not peaked





I-BEAM SPLICE CONNECTORS & ACCESSORIES

Manufactured & Tested In Accordance With NEMA VE-1

Classified By UL As An Equipment Grounding Conductor

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SPLICES & CONNECTORS

		<i>Splice Plates</i> Standard splice connectors used to join tray sections. Splices with one blank side can be used to connect to a competitors tray by field drilling. 3/8" hardware included See Detail "A" in Details on page 158.			
	• •	Тгау Туре	Standard Splice	One Side Blank	
H2		IJA, IJB, IJC, IJD & IJC5	ASP-H2-()-K	ASP-H2-1B()	
		IYA, IYB, IYC, IYB5 & IYC5	ASP-H6-()-K	ASP-H6-1B()	
• •	H6/M2	IMB, IMC, IMD, IXA, IXB, IXC, IXD, IMC7, IXC7 & IXD7	ASP-M2-()-K	ASP-M2-1B()	
		I6	ASP-E2-()-K	ASP-E2-1B()	
• E2/I8	(UL)	18	ASP-I8-()-K	ASP-I8-1B()	
		-			





Expansion Splice Connectors

Expansion splice connectors are designed to allow 1-1/2" of free movement between adjacent straight sections. 3/8" hardware included. Bonding jumpers are required. See NEMA VE-2 for installation information. See Detail "B" in Details on page 158.

Тгау Туре	Catalog No.
IJA, IJB, IJC, IJD, IJC5, IYA, IYB, IYC, IYB5 & IYC5	ASP-4-EX()-K
IMB, IMC, IMD, IXA, IXB, IXC, IXD, IMC7, IXC7 & IXD7	ASP-6-EX()-K
I6	ASP-I6-EX()-K
I8	ASP-I8-EX()-K

() = Blank for standard Zinc-Plated Hardware, (-6S) for 316 Stainless Steel or (-SB) for Silicon Bronze.

-K = Kitted Hardware and Splice

SPLICES & CONNECTORS

Horizontal Hinge Splice Plates



Horizontal hinged splices offer flexibility to go around obstacles during installation. Bonding jumpers should be used on each side rail. The long hinge is field drilled once the trays are at the desired angle. 3/8" hardware is included. See Detail "D" in Details on page number 159.

Catalog No.	Т гау Туре
AFS-H4()-K	IJA, IJB, IJC, IJD, IJC5, IYA, IYB, IYC, IYB5 & IYC5
AFS-H6()-K	IMB, IMC, IMD, IXA, IXB, IXC, IXD, IMC7, IXC7 & IXD7
AFS-HI6()-K	Ι6
AFS-HI8()-K	I8

Vertical Hinge Splice Plates

Vertical hinged splices offer flexibility to go over or under obstacles during installation. Bonding jumpers should be used on each side rail. 3/8" hardware is included. See Detail "C" in Details on page 159.

Тгау Туре	Catalog No.
IJA, IJB, IJC, IJD, IJC5, IYA, IYB, IYC, IYB5 & IYC5	AFS-V4()-K
IMB, IMC, IMD, IXA, IXB, IXC, IXD, IMC7, IXC7 & IXD7	AFS-V6()-K
Ι6	AFS-VI6()-K
I8	AFS-VI8()-K



Offset Reducing Splice Plates

Offset reducing splice plates can be used instead of reducer fittings and offer better versatility and economy since they are less expensive and don't require covers. Use two plates for concentric reductions or one offset plate along with a standard splice plate for eccentric reductions.

3/8" hardware included.

Catalog No.
ASP-HOR-(OFF)()
ASP-XOR-(OFF)()
ASP-I6OR-(OFF)()
ASP-I8OR-(OFF)()

(OFF) Insert Offset in inches

() = Blank for standard Zinc-Plated Hardware, (-6S) for 316 Stainless Steel or (-SB) for Silicon Bronze.

-K = Kitted Hardware and Splice

SPLICES & CONNECTORS

E E	nating the need to h shown in NEMA VI	splices can be place ave splices located E-2. This can reduc d-span splices need	d at any location within a span, elimi- within the quarter point of the span as e the number of supports and cost of to be ordered separately.
3	Tray Height	Тгау Туре	Catalog No.
MS Stule	4.5"	IYC	ASP-MS-4-1/2()
MS Style	6"	IXC	ASP-MS-6()
	6"	IXD	ASP-MS-6()
	6"	I6	STANDARD SPLICE: ASP-E2()
	7"	IXC7	ASP-MS-7()
I6 & I8 Style	7"	IXD7	ASP-MS-7()
(UL)	8"	18	STANDARD SPLICE: ASP-18()
		•	·



Quarter-Span Expansion Splices

Optional quarter-span expansion splices can be placed at any location within the quarter point of the span without supporting both sides of the splice as outlined in NEMA VE-2. These splices can reduce the installed cost by reducing the number of supports required.

3/8" hardware is included. Bonding jumpers required.

Catalog No.	Tray Type	Tray Height
ASP-QS-4-1/2-EX()	IYC	4.5"
ASP-QS-6-EX()	IXC	6"
ASP-QS-I6-EX()	I6	6"

Channel to Ladder or Trough Connector

These connectors are used to connect a single channel to a ladder or trough tray. Connection is perpendicular to the tray.

3/8" hardware is included.

120

Channel Type	Alum	HDGAF	316 SS
G3	ACC-IG3()	SCC-IG3()	6CC-IG3()
G4 & G6	ACC-IGU()	SCC-IGU()	6CC-IGU()

() = Blank for standard Zinc-Plated Hardware, (-6S) for 316 Stainless Steel or (-SB) for Silicon Bronze.

Shorter Tray



Step Down Splice Connectors

Step down splices are used to connect two trays together of different heights, while keeping the bottoms of both trays lined up. These splice connectors are handy when you want to change the height of the tray during a run such as changing the tray you are running from 6" high to 4.5" high. Also used to adapt one tray type to another. Two pieces required. 3/8" hardware is included.

Тгау Туре	Catalog No.
5" to 4.5" High Trays	ASP-500/450()
6" to 4.5" High Trays (Except 16)	ASP-600/450()
6" to 5" High Trays (Except 16)	ASP-600/500()
7" to 4.5" High Trays	ASP-700/450()
7" to 5" High Trays	ASP-700/500()
7" to 6" High Trays (Except 16)	ASP-700/600()
I6 to 7" High Trays	ASP-16/700()
I6 to 6" High Trays	ASP-16/600()
I6 to 5" High Trays	ASP-16/500()
I6 to 4.5" High Trays	ASP-16/450()
I8 to 7" High Trays	ASP-18/700()
I8 to I6 High Trays	ASP-18/16()
I8 to 6" High Trays (Except 16)	ASP-18/600()
I8 to 5" High Trays	ASP-18/500()
I8 to 4.5" High Trays	ASP-18/450()



Splice hardware is offered in standard Zinc-Plated steel finish. 316 Stainless Steel and Silicon Bronze (Non-Ferrous) are also offered.		
Description	Catalog No.	
3/8" x 3/4" Splice Bolt, Zinc-Plated	B-100	
3/8" Splice Nut with Captive Lock Washer, Zinc-Plated	N-100	
3/8" x 3/4" Splice Bolt, 316 Stainless Steel	B-100-6S	
3/8" Serrated Flange Lock Nut, 316 Stainless Steel	N-100-6S	
3/8" x 3/4" Splice Bolt, Silicon Bronze	B-19-SB	
3/8" Splice Nut, Silicon Bronze	N-17-SB	
3/8" Lock Washer, Silicon Bronze	W-17-SB	

Hardware for Splice Connectors Splice hard

offered in standard Zinc-Plated steel finish 316 Stainless

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() = Blank for standard Zinc-Plated Hardware, (-6S) for 316 Stainless Steel or (-SB) for Silicon Bronze.

Taller Tray

atalog No.

IXC7DJ

I6DJ

I8DJ

BOX CONNECTORS & WALL PENETRATION SLEEVES



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 Height	Catalog No.	Tray Height	C
4.5"	IYCDJ	7"	
5"	IJC5DJ	I6	
6"	IXCDJ	18	
-	o		

	Box Connectors Box connectors are used to connect trays to boxes or p 3/8" hardware is included.	anels.
	Тгау Туре	Catalog No.
1	IJA, IJB, IJC, IJD, IYA, IYB & IYC	AVBC-(W)-4-1/2()
WIDTH	IJC5, IYB5 & IYC5	AVBC-(W)-5()
	IMB, IMC, IMD, IXA, IXB, IXC & IXD	AVBC-(W)-6()
	I6	AVBC-(W)-I6()
	IMC7, IXC7 & IXD7	AVBC-(W)-7()
	I8	AVBC-(W)-I8()
		J



Wall Penetration Sleeves

The wall penetration sleeve includes a 24" long pan, 2 wall connectors, a cover with cover screws and a pair of splice connectors, that allows tray to be connected on both sides of the wall. Gaskets and sealants are not included. 3/8" splice hardware is included. See Details "O" and "P" in Details on pages

3/8" splice hardware is included. See Details "O" and "P" in Details on pages 165 and 166.

Catalog No.
AWPS-(W)-4-1/2()
AWPS-(W)-5()
AWPS-(W)-6()
AWPS-(W)-I6()
AWPS-(W)-7()
AWPS-(W)-I8()

() = Blank for standard Zinc-Plated Hardware, (-6S) for 316 Stainless Steel or (-SB) for Silicon Bronze.

(W) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

SPLICES & ACCESSORIES

3 Piece

Construction

END PLATES & DROPOUTS



Image: WIDTHEnd plates are available to close off the end of a tray run. The end plate is three-
piece constructed to allow a small width adjustment to prevent bowing when
installed. Hardware is included.Image: WIDTHImage: Catalog No.4.5" High TraysAEP-(W)-4-1/2()5" High TraysAEP-(W)-5()6" High Trays (Except 16)AEP-(W)-6()16AEP-(W)-16()

7" High Trays

I8



Dropouts

This dropout is used at the end of a cable tray, or to provide a smooth drop off for small cables at any point between rungs. They can be used in pairs to drop from two directions or singly to drop from one direction. Hardware is included.

AEP-(W)-7()

AEP-(W)-I8()

Тгау Туре	Catalog No.
IJA, & IJB	AVD-(W)()
IJC, & IJD	AVD-(W)-XA()
IJC5, IYB5, IYC5, IYA, IYB, IYC, IMB, IMC, IMD, IXA, IXB, IXC, IMC7, IXC7, & IXD7	AVD-(W)-YA()
I6	AVD-(W)-X()
18	AVD-(W)-YA()

CONDUIT SIDE DROPOUT BRACKET ONLY. PIPE CLAMP, PIPE, AND GROUND BUSHING ARE NOT INCLUDED. Bracket	<i>Conduit Side-Type Dropouts</i> The conduit side-type dropout is a bracket to secure a conduit clamp <i>(not included)</i> to the side rail of the tray, allowing cables to exit the tray into conduit drops to the equipment. Not UL listed.		
	Т гау Туре	Zinc-Plated	316 SS
	All Trays (Except I6 & I8)	VDS-U()	6VDS-U
	I6 & I8	VDS-U-I6()	6VDS-U-I6

() = Blank for standard Zinc-Plated Hardware, (-6S) for 316 Stainless Steel or (-SB) for Silicon Bronze.

(W) = Width (6, 9, 12, 18, 24, 30, or 36) denotes desired Width (in)

SPLICES & ACCESSORIES

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BONDING JUMPERS



Bonding Jumpers / Grounding Straps

Bonding jumpers are primarily used to jump across connections that are considered non-secure such as hinge splices or expansion splices. Jumpers should be installed on both side rails when jumping across hinge splices and expansion splices. When used as an EGC, jumpers should be installed on both side rails and the two jumpers amperage values should add up to the fuse rating of the equipment being protected. Many styles and amperages are available including:

Laminated Aluminum, Green Insulated Copper, and Tinned Braided Copper. Jumpers are offered in two lengths 12" and 16" from bolt hole to bolt hole.

See Details "B", "C" and "D" in Details on pages 158 and 159.

Amperage	Description	Catalog No. 12" Long	Catalog No. 16'' Long
600	Laminated Alum	AFS-C()	AFS-C-16L()
1000	Laminated Alum	AFS-C-1000()	AFS-C-1000-16L()
1200	Laminated Alum	AFS-C-1200()	AFS-C-1200-16L()
600	Green Ins. Cu	AFS-CT-600-I()	AFS-CT-600-I-16L()
800	Green Ins. Cu	AFS-CT-800-I()	AFS-CT-800-I-16L()
1000	Green Ins. Cu	AFS-CT-1000-I-()	AFS-CT-1000-I-16L()
1200	Green Ins. Cu	AFS-CT-1200-I()	AFS-CT-1200-I-16L()
1600	Green Ins. Cu	AFS-CT-1600-I()	AFS-CT-1600-I-16L()
2000	Green Ins. Cu	AFS-CT-2000-I()	AFS-CT-2000-I-16L()
600	Braided Cu	AFS-CT-600()	AFS CT-600-16L()
1000	Braided Cu	AFS-CT-1000()	AFS-CT-1000-16L()
1200	Braided Cu	AFS-CT-1200()	AFS-CT-1200-16L()
1600	Braided Cu	AFS-CT-1600()	AFS-CT-1600-16L()
2000	Braided Cu	AFS-CT-2000()	AFS-CT-2000-16L()

() = Blank for standard Zinc-Plated Hardware, (-6S) for 316 Stainless Steel or (-SB) for Silicon Bronze.

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SPLICES & ACCESSORIES

SPLICES & ACCESSORIES

GROUND CLAMPS



Grounding Connectors

Type GC connectors hold a single through cable and a tap cable while separating the ground conductor from the cable tray. Note that the bolt head is mounted on the inside wall of the cable tray to avoid damage to the cable insulation. Grounding connector can be used with aluminum or galvanized steel cable trays and aluminum or copper conductors. When mounted, 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 applied on the cable and connector. Clamps are copper alloy Tin-Plated. See Detail "K" in Details on page 163.

UL Listed CSA Certified UL Standard 467

Conductor	Catalog No.
#6 (SOL), #4, #3, #2, #1 & 1/0 STR (0.162 - 0.372 Dia)	GC-2525-CT
#2 (SOL), #1, 1/0, & 2/0 STR (0.258 - 0.419 Dia)	GC-2626-CT
2/0 (STR), 3/0, 4/0 & 250 KCMIL (0.414 - 0.575 Dia)	GC-2929-CT

SPLICES & ACCESSORIES



SPLICES & ACCESSORIES

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GROUND CLAMPS



Grounding Clamps

Type GBM high-copper alloy clamps hold a single through cable directly on the cable tray surface. One wrench installation and UL 467 listed. Copper alloy cast body with Durium bolts, nuts, and washers. Furnished in copper alloy, however, Tin-Plating is available as an option. GB-style clamps have a back piece that separates the cable from the tray surface.

UL listed. See Detail "L" in Details on page 163.

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

Double Cable Clamps

This double cable clamp is used to clamp ground wires to the tray or structure. The hole is 5/16". Not UL listed.

Diameter	Conductor	Plated Clamp	316 SS
1/4"	#4, #3 & #2 Bare Copper	HCM-28	6HCM-28
3/8"	#1, 1/0 & 2/0 Bare Copper		6НСМ-29
1/2"	3/0, 4/0 & 250 MCM	НСМ-30	6HCM-30
3/4"			6HCM-31
1"			6HCM-32



Oxidation Inhibitor

An oxidation inhibitor is used where permanent electrical continuity is important. For best results, clean contact surfaces from dirt and oil by wiping clean and remove 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.

Description	Catalog No.
Oxidation Inhibitor	OI



SEPARATORS



Separators / Dividers

Cable separators (dividers) are available for all tray types in aluminum, HDGAF, mill galvanized, galvannealed, or 316 Stainless Steel. Separators come in various heights and are slotted at regular intervals for ease of installation without field drilling. Each separator is furnished with B-37 self-drilling self-tapping sheet metal screws for ease of mounting and one (CSS) separator splice. Stainless separators are furnished with stainless bolts, nuts, and washers. Optional separator mounting clips (SSUSC-U) with hardware are also available for mounting without drilling.

Straight Lengths: Standard length is 10 or 12 feet. For 10 foot lengths change the -144 to -120. Also available in 5 foot -60 or 6 foot -72 lengths.

Tray Height	Separator Height	Alum	316 SS
4.5"	2.75"	A3S-144()	638-144
5"	3.75"	A4S-144()	64S-144
6" (I6 only)	4.75"	AI6S-144()	6168-144
6"	4.75"	A58-144()	658-144
7"	5.75"	A6S-144()	668-144
8" (I8 only)	6.75"	AI8S-144()	6188-144

Separators for Horizontal Bends

Separators for horizontal bends are supplied in the standard 6 foot length. 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. Self-drilling self-tapping screws and one (CSS) separator splice are included with each section. Stainless separators are furnished with stainless bolts, nuts, and washers. Optional separator mounting clips (SSUSC-U) with hardware are also available for mounting without drilling.

Tray Height	Separator Height	Alum	316 SS
4.5"	2.75"	A3S-HA()	63S-HA
5"	3.75"	A4S-HA()	64S-HA
6" (I6 only)	4.75"	AI6S-HA()	616S-HA
6"	4.75"	A5S-HA()	65S-HA
7"	5.75"	A6S-HA()	66S-HA
8" (I8 only)	6.75"	AI8S-HA()	618S-HA



CSS Splice

SPLICES & ACCESSORIES

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SEPARATORS





Separator Fasteners for Ladder Tray (Optional)

Separator fasteners allow attachment of separators to ladder rungs without drilling or shooting self-drilling self-tapping screws into the rungs. Order 4 per straight section, 3 per horizontal fitting and 2 per vertical fitting. Rung fasteners are Stainless Steel and include mounting hardware.

Catalog No.

SSUSC-U-K

(°) Insert Degree of Bend (90, 60, 45, or 30)

(R) = Insert Radius of Bend (12, 18, 24, 36, or 48) (in)

() = Blank for standard Zinc-Plated Hardware, (-6S) for 316 Stainless Steel or (-SB) for Silicon Bronze.

SPLICES & ACCESSORIES

SPLICES AND MINI TRIM





Mini Trim

Mini Trim can be used as a protective edging to protect cables from sharp surfaces that they may contact. Mini trim is a vinyl embossed extrusion with segmented metal core that can be cut with a knife between the metal core segments. It will grip edges from 0.100" to 0.050" thick, and is supplied in 100 foot and 250 foot rolls.

Length	Catalog No.
100 ft	MINI-TRIM-100
250 ft	MINI-TRIM-250



Bottom Splices for Ventilated or Solid bottom

Finger splices are used to cover gaps between sections of ventilated trough or solid bottom trays and to prevent bottom edges from damaging cables as they cross the joints. These are especially useful on trays with flat solid bottoms or flat sheets mounted on top of rungs. Simply drop them in between tray bottoms and bend the fingers underneath in opposite directions to secure in place. Insert the tray width for "W".

Catalog No.	Material
ASP-"W"	Aluminum
SSP-"W"	Mill Galvanized





I-BEAM HOLD DOWNS & SUPPORT MATERIAL

Manufactured & Tested In Accordance With NEMA VE-1

Classified By UL As An Equipment Grounding Conductor

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SUPPORT MATERIAL

mphusky

HOLD DOWNS



Single Hold Down Clips for I-Beam

This clip is used to fasten all Husky ladder-style trays to a support using the inside flange of the tray. Hardware is not included. Sold as each. See NEMA VE-2 for information on installation.

Dimensions: 1-7/8" L x 1-1/2" W x 1/8" (11GA) Thick

Hardware	Alum	Zinc-Plated	HDGAF	316 SS
3/8"	AHDC-V	SHDC-V	GHDC-V	6HDC-V
1/2"	AHDC-V-1/2	SHDC-V-1/2	GHDC-V-1/2	6HDC-V-1/2





EL

Expansion Guides for I-Beam Trays

Expansion guides are used to secure I-Beam trays, while guiding the tray's movement during thermal expansion. For expansion guide recommendations, please refer to NEMA VE-2. Uses 1/2" hardware which is not included. Sold as each.

See Detail "B" in Details on page 158.

Dimensions:

VL: 2-27/32" L x 1-1/2" W x 1/8" Thick EL (Aluminum): 1-1/2" L x 1-1/2" W x 1/2" Thick EL (Steel): 1-1/2" L x 1-1/2" W x 3/8" Thick

Hardware	Alum	Zinc-Plated	HDGAF	316 SS
1/2"	AEXG-VL	SEXG-VL	GEXG-VL	6EXG-VL
1/2"	AEXG-EL	SEXG-EL	GEXG-EL	6EXG-EL



SUPPORT MATERIAL

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SUPPORT MATERIAL

HOLD DOWNS

Hold Down	<i>Hold Downs / Expan</i> These heavy duty combin in one orientation as a ho expansion guide, elimina each type before ordering NEMA VE-2 for informa See Detail "F" in Details Dimensions: 3-1/16" L x	hation hold de old down clan ting the need g. Designed fo tion on instal on page 160.	own clamps/expa up and flipped up to determine the or use on the out: lation. Uses 1/2"	nsion guides side down to exact numbe side flange of	use as an r needed of the tray. See
Emergine Cuile	All I-Beam Tray	Alum	Zinc-Plated	HDGAF	316 SS
Expansion Guide	Hold Down/Expansion	AHDEC	SHDEC	GHDEC	6HDEC
		•	•		

Hold Down ZCC-HDC Expansion Guide	 Hold Downs / Expansion Guides For I-Beam These special heavy duty tray hold down clamps and expansion guides are ideal for fastening trays 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 or beam. Designed for use on the outside flange of the tray. See NEMA VE-2 for information on installation. For beams up to 1" thick. ()=Blank for standard Zinc-Plated Hardware, (-6S) for 16 Stainless Steel 			
	All I-Beam Tray	Zinc-Plated	HDGAF	316 SS
	Hold Down Clamp	ZCC-HDC()	GCC-HDC()	6CC-HDC
ZCC-EXC	Expansion Guide	ZCC-EXC()	GCC-EXC()	6CC-EXC



SUPPORT MATERIAL

mphusky

HOLD DOWNS





Heavy Duty Hold Down Clamps

These 3" wide heavy duty hold down clamps can be used to secure tray to supports in horizontal runs or to secure trays running vertically to wall supports or other trays. Mounting requires drilling the tray side rail. Sold as each.

3/8" hardware to mount clamp to tray is included.

Alum	Mill Galv	HDGAF	316 SS
AHDC-HV()	SHDC-HV()	GHDC-HV()	6HDC-HV



These 1-1/2" wide heavy duty hold down clamps can be used to secure tray to supports in horizontal runs or to secure trays running vertically to wall supports or other trays. Mounting requires drilling the tray side rail. Sold as each.

3/8" hardware to mount clamp to tray is included.

Alum	Mill Galv	HDGAF	316 SS
AHDC-HV2()	SHDC-HV2()	GHDC-HV2()	6HDC-HV2

() = Blank for standard Zinc-Plated Hardware, Insert (-6S) for 316 Stainless Steel Hardware, (-SB) for Silicon Bronze Hardware.

SUPPORT MATERIAL

SUPPORT MATERIAL

HANGERS





Vertical Hangers for Tray

Vertical hangers support single-type vertical ladders or troughs from 1/2" hanger rods. The unit is generally used to splice the vertical tray and the vertical outside 90 degree bend or vertical support elbow together. The splice hardware is included. Hanger rod not included. See Detail "O" in Details on page 153.

Тгау Туре	HDGAF	316 SS
All tray (Except I6 & I8)	SH-VU()	68H-VU
I6	SH-VU-I6()	6SH-VU-I6
18	SH-VU-I8()	6SH-VU-18

Structural Connector For Ladder and Trough

the 1/2" hardware to mount to the floor is not included.



Tray Type	Aluminum	HDGAF	316 SS
All trays	ASC-U()	SSC-U()	6SC-U

Structural connectors terminate ladder or trough on top of concrete floors or can be used to fasten to walls or cabinets. The splice hardware is included, however

() = Blank for standard Zinc-Plated Hardware, Insert (-6S) for 316 Stainless Steel Hardware, (-SB) for Silicon Bronze Hardware.

See Detail "J" in Details on page 162.

TRAPEZE SUPPORTS



Trapeze Support Kits (Except I6 & I8) (Mill Galv Strut) These trapeze support kits include all the hardware required to attach I-Beam trays (*Except I6 & I8*) to 1/2" hanger rods. Included with each kit is the strut, hold down clips with spring nuts, bolts, washers, and nuts needed to attach to threaded rod (*hanger rod is not included*). There is also an option to use double strut, which is two pieces of strut welded back to back for additional strength.

Single Strut (Except I6 & I8)	Double Strut (Except I6 & I8)	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"



Trapeze Support Kits (I6 & I8 Only) (Mill Galv Strut)

These trapeze support kits include all the hardware required to attach I6 & I8 I-Beam trays to 1/2" hanger rods. Included with each kit is the strut, hold down clips with spring nuts, bolts, washers, and nuts needed to attach to threaded rod *(hanger rod is not included)*. There is also an option to use double strut, which is two pieces of strut welded back to back for additional strength.

Single Strut (16 & 18)	Double Strut (16 & 18)	Trapeze Length
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"

() = Blank for standard Zinc-Plated Hardware, Insert (-6S) for 316 Stainless Steel Hardware, (-SB) for Silicon Bronze Hardware.

TSHP-201

SUPPORT MATERIAL

TRAPEZE SUPPORTS

Trapeze Support Channels

Channels are used with hanger rods *(not included)* to support I-Beam-style trays where hanger clips cannot be utilized. See Details "A" and "B" in Details on page 158.



Tray Width HDGAF 316 SS A B Alum 6" 11.625" 7.875" ASC-6 SSC-6 6SC-6 9" 14.625" 10.875" ASC-9 SSC-9 6SC-9 12" 17.625" 13.875" ASC-12 **SSC-12** 6SC-12 18" 23.625" 19.875" ASC-18 **SSC-18** 6SC-18 24" 29.625" 25.875" ASC-24 **SSC-24** 6SC-24 30" 35.625" ASC-30 **SSC-30** 6SC-30 31.875" **SSC-36** 6SC-36 36" 41.625" 37.875" ASC-36

Trapeze Support Angles

These trapeze support angles are 1-1/2" x 1-1/2" x 1/8" thick continuous slotted steel and can be used to support I-Beam ladder or trough with 1/2" diameter hanger rods. Hanger rod is not included.

Maximum allowable load:

1-1/2"

7/16" x 13/16" SLOTS FOR TRAY MOUNTING

9/16" x 1-1/2" SLOTS ON ENDS Will safely support any loaded tray of the designated width within the load limits of the 1/2" diameter hanger rod.

Tray Width	L	Α	HDGAF
6"	11.5"	9"	STSA-6
9"	14.5"	12"	STSA-9
12"	17.5"	15"	STSA-12
18"	23.5"	21"	STSA-18
24"	29.5"	27"	STSA-24
30"	35.5"	33"	STSA-30
36"	41.5"	39"	STSA-36

SUPPORT MATERIAL

1 - 1/2''

SUPPORT MATERIAL

mphusky

HANGER ROD

N-12 N-12 W-9	channels, angles, and s are furnished with four of washers. Maximum allowab Use for design, 1100 po	Is per inch, hanger rods can be upport hanger clips. They have (N-12) nuts, two (W-9) lock wa ole load: unds, in combination with all st couplings normally used.	e continuous threads and shers and two (W-12) flat
W-9	Item	Zinc-Plated	316 SS
	10' - 0" Hanger	Rod HR-120G()	6HR-120G
	5' - 0" Hanger I	Rod HR-60G()	6HR-60G
	2' - 6" Hanger H	Rod HR-30G()	6HR-30G
HR-120G	Extra 1/2" Hex 1	Nuts N-12	N-45
W-12	Extra 1/2" Lock W	Vashers W-9	W-36
	Extra 1/2" Flat Wa	ashers W-12	W-35



Hanger	Rod	Coup	lings
11000		comp	

Couplings are used to connect hanger rods when lengths of more than 120" are encountered or to connect hanger rods between trays that are hung one over the other. They also reduce field labor cost by extending new or existing hanger rods to support additional trays.

Item	Zinc-Plated	316 SS
1/2" Steel without Window	HRC	6HRC
1/2" Malleable Iron with Window	HRC-G	

() = Blank for standard Zinc-Plated Hardware, Insert (-6S) for 316 Stainless Steel Hardware, (-SB) for Silicon Bronze Hardware.

SUPPORT MATERIAL

SUPPORT MATERIAL

BEAM CLAMPS



PS-2622SJ

PS-2622SJ

I-Beam Clamp

This wide-flanged clamp is furnished with a hook bolt in lengths to accommodate 6" through 12" beams up to 3/4" thick. For 1/2" hanger rod.

Maximum allowable load: 300 lbs.

00 lbs.

Item	Zinc-Plated	316 SS	
Clamp Only	PS-2622	6PS-2622	
Clamp with 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 with Swivel

This beam clamp is furnished with a swivel clevis and hook bolt in lengths to accommodate 6" trough 12" beams up to 3/4" thick. For 1/2" hanger rod.

Maximum allowable load:

300 lbs.

Item	Zinc-Plated	316 SS
Clamp Only with Swivel	PS-2622SJ	6PS-2622SJ
Clamp w	rith Hook Bolt & Sw	ivel
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

Beam C-Clamps C-clamp beam clamps allow for the direct support of 1/2" hanger rods on I-Beams, wide-flange beam sections and angles. For beam thickness up to 3/4". Supplied in unfinished iron. Maximum allowable load: 400 lbs. Catalog Number GC

SUPPORT MATERIAL

SUPPORT MATERIAL

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BEAM CLAMPS

Beam Clamps

Beam clamps are heavy duty and 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



Swivel Joints

Swivel joints allow 1/2" hanger rods to swing from an inclined clamp. They are furnished with or without a 1" long stud assembly. The stud style can be mounted directly to a support angle.

Maximum allowable load:

1500 lbs.

Item	Zinc-Plated	316 SS
Swivel Joint Only	SJ	6SJ
Swivel Joint with Stud	SJS	6SJS





Bevel Washers

140

The bevel washer is used when mounting to beams or channels to make a level bolting surface. The standard size is 1-1/4" square with a 1/2" bevel and a 9/16" hole for 1/2" hardware. Bolt and nut not included.

Catalog Number

W-11

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SUPPORT MATERIAL

BEAM CLAMPS



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 for use with 1/2" diameter hanger rods in Zinc-Plated steel with or without a swivel joint.

Hanger rod not included.

Maximum allowable load:

500 lbs. with a safety factor of 5

Item	Zinc-Plated
Clamp Only	HP-177
Clamp with Swivel Joint	HP-177-SJ

HP-203A	<i>HP Channel Clamps</i> HP single and back-to-back strut type sup beams with a 0.8" maximum flange thic required hardware.	
	Maximum allowable load: 1,275 lbs. with a safety factor of 5	
HP-265D		
	Channel Type	Zinc-Plated
	HP-200 Single Strut	НР-265А
	HP-201 Double Strut	HP-265D

SUPPORT MATERIAL

SUPPORT MATERIAL

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Z-Brackets

Z-BRACKETS

Z-brackets support vertical runs of tray at a distance of 3" from the wall. They have a slot pattern similar to bracket angles and are made from standard 7 gauge Z-shaped HDGAF steel. Hardware is not included. See Detail "H" in Details on page 161.

Tray Width	Α	В	HDGAF	
Single Z-Bracket				
6"	18"	15.5"	SRZ-6	
9"	23"	20.5"	SRZ-9	
12"	26"	23.5"	SRZ-12	
18"	32"	29.5"	SRZ-18	
24"	38"	35.5"	SRZ-24	
30"	44"	41.5"	SRZ-30	
Double Z-	Bracket For '	Two Trays Side	e-By-Side	
6" & 6"	34"	31.5"	DRZ-6	
9" & 9"	40"	37.5"	DRZ-9	
12" & 12"	46"	43.5"	DRZ-12	
18" & 18"	58"	55.5"	DRZ-18	
24" & 24"	70"	67.5"	DRZ-24	
30" & 30"	82"	79.5"	DRZ-30	
Double Z-Bracket For U-Type Support Angle Clips				
6" & 6"	28"	25.5"	DDZ-6	
9" & 9"	36"	31.5"	DDZ-9	
12" & 12"	40"	37.5"	DDZ-12	
18" & 18"	52"	49.5"	DDZ-18	
24" & 24"	64"	61.5"	DDZ-24	
I			1	

SUPPORT MATERIAL

BRACKET ANGLES



Bracket Angles

Bracket angles connect two wall brackets, which then serve as a support for vertical runs. Cable trays are then bolted to the bracket angles with support angle clips. Bracket angles have a series of bolt slots to allow the attachment of various types of tray of the same width to the same bracket angle. Fabricated from HDGAF steel. Hardware is not included. See Detail "I" in Details on page 162.

Tray Width	Α	В	HDGAF	
Single Bracket Angles				
6"	18"	15.5"	SRSA-6	
9"	23"	20.5"	SRSA-9	
12"	26"	23.5"	SRSA-12	
18"	32"	29.5"	SRSA-18	
24"	38"	35.5"	SRSA-24	
30"	44"	41.5"	SRSA-30	
Double Brac	ket Angles For	• Two Trays Si	de-By-Side	
6" & 6"	34"	31.5"	DRSA-6	
9" & 9"	40"	37.5"	DRSA-9	
12" & 12"	46"	43.5"	DRSA-12	
18" & 18"	58"	55.5"	DRSA-18	
24" & 24"	60"	67.5"	DRSA-24	
30" & 30"	82"	79.5"	DRSA-30	
Double Bracket Angles For U-Type Support Angle Clip				
6" & 6"	28"	25.5"	DDSA-6	
9" & 9"	34"	31.5"	DDSA-9	
12" & 12"	40"	37.5"	DDSA-12	
18" & 18"	52"	49.5"	DDSA-18	
24" & 24"	64"	61.5"	DDSA-24	
30" & 30"	76"	73.5"	DDSA-30	
	<u>.</u>		<u>.</u>	

SUPPORT MATERIAL

SUPPORT MATERIAL

mphusky

BRACKETS

	Is on pages 161 and 162.	
Item	HDGAF	316 SS
gle Angle Clip (L-Type)	BKSA-IXD-C()	6BKSA-IXD-C
ble Angle Clip (U-Type)	BKSA-IXD-DC()	6BKSA-IXD-DC
	Item gle Angle Clip (L-Type)	gle Angle Clip (L-Type) BKSA-IXD-C()



Item	Catalog Number
Unfinished Steel	НР-904-()
HDGAF Steel	HP-904-()-G

				X-Axis			Y-Axis		
A (in)	B (in)	Area (in)	Wt/Ft (lbs)	I-in ⁴	S-in ³	R-in	I-in ⁴	S-in ³	R-in
4	4.125	1.53	5.20	3.74	1.870	1.563	1.165	0.565	0.872

() = Blank for standard Zinc-Plated Hardware, Insert (-6S) for 316 Stainless Steel Hardware, (-SB) for Silicon Bronze Hardware.

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SUPPORT MATERIAL

5
WALL BRACKETS



Aluminum Wall Brackets (not for AHDEC/SHDEC Style Clamps) Aluminum universal wall brackets can be placed one bracket below another allowing a minimum vertical spacing of cable trays of 10". Hold down clips must be purchased separately. Not for use with "AHDEC/SHDEC" style hold down clamps. These aluminum wall brackets can be shipped quicker than the galvanized steel brackets.

Maximum allowable load:

Load applied at two points: 800 lbs. per bracket (2.0 safety factor) Load applied at end of bracket: 400 lbs. per bracket (2.0 safety factor)

Tray Width	W	Catalog No.
6"	14.375"	AWBK-6-U2
9"	17.375"	AWBK-9-U2
12"	20.375"	AWBK-12-U2
18"	26.375"	AWBK-18-U2
24"	32.375"	AWBK-24-U2
30"	38.375"	AWBK-30-U2
36"	44.375"	AWBK-36-U2
36"	44.375"	AWBK-36-U2



Aluminum Wall Brackets (for AHDEC/SHDEC Style Clamps)

Aluminum universal wall brackets can be placed one bracket below another allowing a minimum vertical spacing of cable trays of 10". Hold down clips must be purchased separately. For use with "AHDEC/SHDEC" style hold down clamps. These aluminum wall brackets can be shipped quicker than the galvanized steel brackets.

Maximum allowable load:

Load applied at two points: 800 lbs. per bracket (2.0 safety factor) Load applied at end of bracket: 400 lbs. per bracket (2.0 safety factor)

Tray Width	W	Catalog No.
6"	14.625"	AWBK-6-SHDEC
9"	17.625"	AWBK-9-SHDEC
12"	20.625"	AWBK-12-SHDEC
18"	26.625"	AWBK-18-SHDEC
24"	32.625"	AWBK-24-SHDEC
30"	38.625"	AWBK-30-SHDEC
36"	40.625"	AWBK-36-SHDEC



WALL BRACKETS

Aluminum Medium-Weight Wall Brackets

Medium weight aluminum wall brackets are used primarily to support two ladders side-by-side or one tray over the other. Mounting slots are 9/16" x 1-1/2" and are spaced on 2" centers. Hold down clips must be purchased separately. These aluminum wall brackets can be shipped quicker than the galvanized steel brackets.

Maximum allowable load:

Load applied at two points: 900 lbs. per bracket (2.0 safety factor) Load applied at end of bracket: 450 lbs. per bracket (2.0 safety factor)

Catalog No.	С	В	Α	Туре
AWBK-21M	15"	18"	21"	21"
AWBK-30M	18"	21"	31"	30"
AWBK-39M	23"	26"	39"	39"



Aluminum Heavy-Weight Wall Brackets

Heavy weight aluminum wall brackets are used to support long spans or multiple ladder or trough installations that exceed the load capacity of ordinary brackets. These are welded from structural aluminum channels with a stiffening member and $1-5/8" \times 1-5/8"$ aluminum strut channel between the C-channels. The strut makes it easy to fasten the tray anywhere along the length of the bracket with spring nuts, hold down clips, and bolts that are not included. To develop the full strength of the bracket, (3) 1/2" diameter bolts must be used to mount the wall bracket. These aluminum wall brackets can be shipped quicker than the galvanized steel brackets.

Maximum allowable load:

Load applied at two points: 1,000 lbs. per bracket (2.0 safety factor) Load applied at end of bracket: 500 lbs. per bracket (2.0 safety factor)

Туре	Α	В	С	Catalog No.
21"	21"	18"	15"	AWBK-21C
30"	31"	21"	18"	AWBK-30C
36"	36"	39"	33"	AWBK-36C

WALL BRACKETS





Universal Wall Brackets (for AHDEC/SHDEC Style Clamps)

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". For use with "AHDEC/SHDEC" style hold down clamps/expansion guides. Hold down clamps must be purchased separately.

Maximum allowable load:

Load applied at two points: 600 lbs. Load applied at end of bracket: 300 lbs.

Tray Width	Α	Catalog No.
6"	14.625"	WBK-6-SHDEC
9"	17.625"	WBK-9-SHDEC
12"	20.625"	WBK-12-SHDEC
18"	26.625"	WBK-18-SHDEC
24"	32.625"	WBK-24-SHDEC



WALL BRACKETS

Medium-Weight Wall Brackets

Medium-Weight wall brackets are used primarily to support two ladders sideby-side or one ladder 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. Top mounting slots are 9/16" x 1-1/2" and are spaced on 2" center. Hold down clamps must be purchased separately.

Maximum allowable load:

Load applied at two points: 1,200 lbs. per bracket. Load applied at end of bracket: 600 lbs. per bracket.

Catalog No	С	В	Α	Туре
WBK-21M	15"	18"	21"	21"
WBK-30M	18"	21"	31"	30"
WBK-39M	23"	26"	39"	39"
WBK-49M	28.5"	31.5"	49"	49"



Heavy-Weight Wall Brackets

Heavy-Weight channel-type wall brackets are used to support long spans or multiple ladder or trough installations that exceed the load capacity of ordinary brackets. They are constructed with two 3" structural channels with 1-5/8" x 1-5/8" strut between them providing a continuous slot for fastening trays anywhere. They have a stiffener and are hot dip galvanized. To develop the full strength of the brack-et, three 1/2" diameter bolts *(not included)* must be used with the pre-drilled holes in the bracket. Hold down clamps and hardware must be purchased separately.

Maximum allowable load:

4,000 lbs. when applied as 2 equally concentrated loads, spaced at least 2' - 4" apart on brackets 5' wide and under; or at least 4' - 6" apart on brackets over 5' wide. End load would be 2,000 lbs.

Туре	Α	В	С	Catalog No.
36"	36"	39"	36"	WBK-36C
42"	42"	39"	36"	WBK-42C
48"	48"	51"	48"	WBK-48C
54"	54"	51"	48"	WBK-54C
60"	60"	63"	60"	WBK-60C
66"	66"	63"	60"	WBK-66C

1-3/4"

SUPPORT MATERIAL

WALL BRACKETS

Single & Double Strut Wall Brackets

Designed primarily for use with framing, these brackets will work well in other applications. The uniform load shown represents a 2.5 safety factor. Furnished in HDGAF steel. Hold down clamps must be purchased separately. See Detail "I" and "O" in Details on pages 162 and 165.

Maximum concentrated end load:

One-half the listed uniform load.

Wall Brackets for All Trays (Except 16 & 18)							
		Single S Wall Br		Double Strut Wall Bracket			
Tray Width	Bracket Width	All I-Beam (Except 16 & 18)	Uniform Load (lbs)	All I-Beam <i>(Except I6 & I8)</i>	Uniform Load (lbs)		
6"	13"	HP-S250-12	900	HP-S251-12	1,650		
9"	16"	HP-8250-15	600	HP-8251-15	1,300		
12"	19"	HP-S250-18	400	HP-S251-18	1,050		
18"	25"	HP-S250-24	300	HP-S251-24	1,000		
24"	31"	HP-S250-30	200	HP-S251-30	800		
30"	37"	N/A	N/A	HP-8251-36	650		
36"	43"	N/A	N/A	HP-S251-42	400		

Wall Brackets for I6 & I8 Trays							
	Single Strut Double Str Wall Bracket Wall Brack						
Tray Width	Bracket Width	All I-Beam (I6 & I8)	Uniform Load (lbs)	All I-Beam (I6 & I8)	Uniform Load (lbs)		
6"	16"	HP-S250-15	600	HP-S251-15	1,300		
9"	19"	HP-S250-18	400	HP-S251-18	1,050		
12"	25"	HP-S250-24	300	HP-S251-24	1,000		
18"	31"	HP-S250-30	200	HP-S251-30	800		
24"	37"	N/A	N/A	HP-S251-36	650		
30"	43"	N/A	N/A	HP-S251-42	400		

SUPPORT MATERIAL



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HP-200 HP-201 9/16" X 1" SLOTS ON **2" CENTERS** HP-200-EH 9/16" HOLES ON 1-7/8" CENTERS НР-200-Н3

STRUT

Strut-Type Support Channel

Strut channels provide indirect support for hanger rods by spanning between available structural support beams and channels. The strut is supplied in 10' or 20' lengths and can be easily field cut to the lengths needed for use as a trapezetype support. Available in single or double back-to-back configurations, as well as slotted or with round holes.

	Style	Single Strut	Double Strut
Black Steel	Solid	HP-200-()	HP-201-()
Mill Galvanized	Solid	HP-200-()-PG	HP-201-()-PG
HDGAF	Solid	HP-200-()-HDG	HP-201-()-HDG
Black Steel	Slotted	НР-200-ЕН-()	НР-201-ЕН-()
Mill Galvanized	Slotted	HP-200-EH-()-PG	HP-201-EH-()-PG
HDGAF	Slotted	HP-200-EH-()-HDG	HP-201-EH-()-HDG
Black Steel	Round Holes	НР-200-НЗ-()	НР-201-НЗ-()
Mill Galvanized	Round Holes	HP-200-H3-()-PG	HP-201-H3-()-PG
HDGAF	Round Holes	HP-200-H3-()-HDG	HP-201-H3-()-HDG

() Insert length in inches Example: **HP-200-EH-120-HDG**



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SUPPORT MATERIAL

SUPPORT HARDWARE

Strut & Support Hardware



SUPPORT MATERIAL

W-12

C-PORT C-SERIES ROOF BLOCKS



C-Series Roof Blocks

C-Series Supports are 100% recycled rubber, UV resistant and suitable for installation on most types of roofing material or other flat surfaces. Each C-Series Support has a 1-5/8" x 13/16" high, 14 gauge pre galvanized strut on top, making it easy to mount cable tray or piping. They are 4-7/8" high by 6" wide and are offered in lengths from 9.6" to 48".

	C-SERIES ROOF BLOCKS								
Cat. No.	Height (H)	Width (W)	Length (L)	Weight	Max Load				
C10	4.875" (124 mm)	6" (152 mm)	9.6" (244 mm)	5.30 lbs.	750 lbs.				
C20	4.875" (124 mm)	6" (152 mm)	19.2" (488 mm)	11.23 lbs.	1500 lbs.				
C30	4.875" (124 mm)	6" (152 mm)	28.8" (732 mm)	16.31 lbs.	2250 lbs.				
C40	4.875" (124 mm)	6" (152 mm)	38.5" (978 mm)	21.72 lbs.	3000 lbs.				
C48	4.875" (124 mm)	6" (152 mm)	48.0" (1219 mm)	27.12 lbs.	3750 lbs.				



C-PORT C510 & C6-SERIES ROOF BLOCKS

C510 & C6-Series Roof Blocks

C510 & C6-Series Supports are 100% recycled rubber, UV resistant and suitable for installation on most types of roofing material or other flat surfaces. Each C510 or C6-Series Support has a 1-5/8" x 1-5/8" high, 14 gauge pre galvanized strut on top and provides additional support for tray, piping or other applications. The C6-Series is applicable where building codes require pipes to be at least 6" above the roof surface.

	C510 & C6-ROOF BLOCKS								
Cat. No.	Height (H)	Width (W)	Length (L)	Weight	Max Load				
C510	5.750" (146 mm)	6" (152 mm)	9.6" (244 mm)	6.25 lbs.	750 lbs.				
C610	6.125" (156 mm)	6" (152 mm)	9.6" (244 mm)	6.67 lbs.	1500 lbs.				
C620	6.125" (156 mm)	6" (152 mm)	19.2" (488 mm)	13.34 lbs.	2250 lbs.				
C630	6.125" (156 mm)	6" (152 mm)	28.8" (732 mm)	20.01 lbs.	3000 lbs.				
C640	6.125" (156 mm)	6" (152 mm)	38.5" (978 mm)	26.68 lbs.	3750 lbs.				



ROOF BLOCKS

C-PORT CE10-SERIES ROOF BLOCKS



CE10-Series Roof Blocks

CE10-Series Supports are 100% recycled rubber, UV resistant and suitable for installation on most types of roofing material or other flat surfaces. Each CE10-Series Support has a 1-5/8" x 13/16" high, 14 gauge pre galvanized strut mounted on top of two 1/2" diameter electro-plated zinc threaded rod risers, making it easy to mount cable tray or piping at the desired height. Base is 4" high by 6" wide and 9.6" long and is offered in lengths of 9.6".

	CE10-SERIES ROOF BLOCKS				
Cat. No.	Height (H)	Width (W)	Length (L)	Weight	Max Load
CE10-8	8" (203 mm)	6" (152 mm)	9.6" (244 mm)	6.14 lbs.	400 lbs.
CE10-12	12" (305 mm)	6" (152 mm)	9.6" (244 mm)	6.50 lbs.	400 lbs.
CE10-16	16" (406 mm)	6" (152 mm)	9.6" (244 mm)	6.85 lbs.	400 lbs.



C-PORT CEW12-SERIES ROOF BLOCKS

CEW12-Series Roof Blocks

CEW12-Series Supports are 100% recycled rubber, UV resistant and suitable for installation on most types of roofing material or other flat surfaces. Each CEW12-Series Support has a 1-5/8" x 13/16" high, 14 gauge pre galvanized strut on top and provides extended support for tray, piping or other applications. The CEW12-Series Support has a wide-bodied base to provide additional stability.

	CEW12-SERIES ROOF BLOCKS					
Cat. No.	Height (H)	Width (W)	Length (L)	Weight	Max Load	
CEW12-8	8" (203 mm)	12" (305 mm)	12" (305 mm)	10.50 lbs.	800 lbs.	
CEW12-12	12" (305 mm)	12" (305 mm)	12" (305 mm)	10.90 lbs.	800 lbs.	
CEW12-16	16" (406 mm)	12" (305 mm)	12" (305 mm)	11.20 lbs.	800 lbs.	
CEW12-24	24" (610 mm)	12" (305 mm)	12" (305 mm)	11.45 lbs	800 lbs.	



C-PORT CB10-SERIES ROOF BLOCKS



CB10-Bridge Series Roof Blocks

CB10-Series Supports are 100% recycled rubber, UV resistant and suitable for installation on most types of roofing material or other flat surfaces. Each CB10-Bridge Series Support has a 1-5/8" x 1-5/8" high, 14 gauge pre galvanized strut that bridges between two bases. Each base is 5-5/8" high x 6" wide and 9.6" long. Each channel support is designed as a superior sleeper for support of cable tray, piping or even roof walkway systems.

	CB10-BRID	GE SERIES	ROOF BLOG	CKS	
Cat. No.	Height (H)	Curb Length (L)	Strut Length (L1)	Weight	Max Load
CB10-28	5.625" (143 mm)	9.6" (244 mm)	28" (711 mm)	13.59 lbs.	500 lbs.
CB10-36	5.625" (143 mm)	9.6" (244 mm)	36" (914 mm)	14.88 lbs.	500 lbs.
CB10-42	5.625" (143 mm)	9.6" (244 mm)	42" (1067 mm)	15.66 lbs.	500 lbs.
CB10-50	5.625" (143 mm)	9.6" (244 mm)	50" (1270 mm)	17.24 lbs.	500 lbs.
CB10-60	5.625" (143 mm)	9.6" (244 mm)	60" (1524 mm)	18.79 lbs.	500 lbs.



C-PORT CW-SERIES ROOF BLOCKS

CW-Series Roof Blocks

CW-Series Supports are 100% recycled rubber, UV resistant and suitable for installation on most types of roofing material or other flat surfaces. Each CW-Series Support has a 1-5/8" x 13/16" high, 14 gauge pre galvanized strut on top and provides wide support for tray, piping or other applications. The CW-Series Support has a low profile wide-bodied base to provide additional stability.

	CW-SERIES ROOF BLOCKS				
Cat. No.	Height (H)	Width (W)	Length (L)	Weight	Max Load
CW12	3.3125" (84 mm)	12" (305 mm)	12" (305 mm)	9.5 lbs.	1200 lbs.
CW24	3.3125" (84 mm)	12" (305 mm)	24" (610 mm)	19.0 lbs.	2400 lbs.
CW36	3.3125" (84 mm)	12" (305 mm)	36" (914 mm)	28.5 lbs.	3600 lbs.
CW48	3.3125" (84 mm)	12" (305 mm)	48" (1219 mm)	38.0 lbs.	4800 lbs.
CW60	3.3125" (84 mm)	12" (305 mm)	60" (1524 mm)	47.5 lbs.	6000 lbs.
CW72	3.3125" (84 mm)	12" (305 mm)	72" (1829 mm)	57.0 lbs.	7200 lbs.



ROOF BLOCKS

C-PORT CX & C5 -SERIES ROOF BLOCKS



CX & C5-Series Roof Blocks

CX-Series Supports are 100% recycled rubber, UV resistant and suitable for installation on most types of roofing material or other flat surfaces. Each CX-Series Support is 2-1/2" or 4" high x 6" wide and available from 4-1/2" to 22" long. The CXM-Series provides an economic alternative when high load-bearing is not required. The CXM-Series uses 14 gauge pre galvanized strut, C5 strut is 14 gauge pre galvanized steel 1-5/8" wide by 13/16" high.



	CX & C5-SERIES ROOF BLOCKS				
Cat No.	Height (H)	Width (W)	Length (L)	Weight	Max Load
CXM	4.000" (102 mm)	6" (152 mm)	4.5" (114 mm)	2.60 lbs.	150 lbs.
СХР	4.000" (102 mm)	6" (152 mm)	9.6" (244 mm)	4.56 lbs.	500 lbs.
CXW12	2.500" (64 mm)	12" (305 mm)	12" (305 mm)	10.00 lbs.	1200 lbs.
CXW24	2.500" (64 mm)	12" (305 mm)	24" (610 mm)	19.12 lbs.	2400 lbs.
CXW36	2.500" (64 mm)	12" (305 mm)	36" (914 mm)	28.66 lbs.	3600 lbs.
C5	4.875" (124 mm)	6" (152 mm)	5" (127 mm)	3.32 lbs.	300 lbs.



C-PORT CES10-SERIES ROOF BLOCKS

CES10-Series Roof Blocks

CES10-Series Supports are 100% recycled rubber, UV resistant and suitable for installation on most types of roofing material or other flat surfaces. Each CES10-Series Support has a 1-5/8" x 1-5/8" high, 14 gauge pre galvanized strut on top and provides wide support for tray, piping or other applications. The CES10-Series consists of two supports with a strut channel spanning between them.

	CES10-SERIES ROOF BLOCKS				
Cat No.	Height (H)	Crossbeam Width (W)	Base Length (L)	Weight	Max Load
CES10-1012	10" (254 mm)	12" (305 mm)	9.6" (244 mm)	14.21 lbs.	500 lbs.
CES10-1024	10" (254 mm)	24" (610 mm)	9.6" (244 mm)	15.62 lbs.	500 lbs.



SUPPORT MATERIAL

ROOF BLOCKS

mphusky

C-PORT DSA10-SERIES ROOF BLOCKS



DSA10-Roof Block Series

DSA10-Roof Block Series supports are 100% recycled rubber, UV resistant and suitable for installation on most types of roofing material and are vari-angle to adapt to any roof pitch. Each DSA10-Roof Block Support is 4" high x 6" wide and 9.6" long. The vari-angle bracket is 5-7/8" x 1-7/8" x 1/4" steel. The telescopic crossbeam outer dimensions are 1-7/8" x 1-7/8". The inner crossbeam is 1-5/8" x 1-5/8". Crossbeams are 12 gauge pre galvanized material.

	DSA10-SERIES ROOF BLOCKS				
Cat. No.	Width Min	Width Max	Length (L)	Weight	Max Load
DSA10-1831	18" (457 mm)	31" (787 mm)	9.6" (244 mm)	39.90 lbs.	1200 lbs.
DSA10-3157	31" (787 mm)	57" (1448 mm)	9.6" (244 mm)	44.10 lbs.	1200 lbs.
DSA10-57102	57" (1448 mm)	102" (2591 mm)	9.6" (244 mm)	50.10 lbs.	1200 lbs.
	<u>.</u>		·		



C-PORT DSAW12-SERIES ROOF BLOCKS

DSAW12-Series Roof Block

DSAW12-Roof Block Support Series supports are 100% recycled rubber, UV resistant and suitable for installation on most types of roofing material and are vari-angle to adapt to any roof pitch. Each DSAW12-Roof Block Series support is 2-1/4" high x 12" wide and 12" long. The vari-angle bracket is 5-7/8" x 1-7/8" x 1/4" steel. The telescopic crossbeam outer dimensions are 1-7/8" x 1-7/8". The inner crossbeam is 1-5/8" x 1-5/8". Crossbeams are 12 gauge pre galvanized material.

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	DSAW12-SERIES ROOF BLOCKS					
Cat. No.	Width Min	Width Max	Base Width & Length (L)	Weight	Max Load	
DSAW12-1831	18" (457 mm)	31" (787 mm)	12" (305 mm)	29.90 lbs.	1200 lbs.	
DSAW12-3157	31" (787 mm)	57" (1448 mm)	12" (305 mm)	35.10 lbs.	1200 lbs.	
DSAW12-57102	57" (1448 mm)	102" (2591 mm)	12" (305 mm)	40.10 lbs.	1200 lbs.	





I-BEAM DETAILS & SAMPLE SPECIFICATIONS

Manufactured & Tested In Accordance With NEMA VE-1

Classified By UL As An Equipment Grounding Conductor

CSA Classified Trays Available

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Note: Trays often have end holes that are not used by the splice plates.

B-100 Splice Bolts are inserted through the side rail from the inside of the tray. The splice plates are located on the outside of the tray and N-100 Splice Nuts are installed on the bolts and tightened until the bolt heads pull down flush on the inside of the tray.

Detail B: Expansion Splice

DETAILS



DETAILS

Detail C: Vertical Hinge



installed on both sides of the tray. Angles over 30 degrees may require a 16" long Bonding Jumper across the outside hinge. 12" Bonding Jumpers will work across the inside hinge.

Horizontal Hinge B-100 Splice Bolts N-100 Splice Nuts

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DETAILS

mphusky



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DETAILS

DETAILS & SAMPLE SPECS

DETAILS





DETAILS

Detail I: SRSA & Wall Brackets Riser Detail





ASC-U or SSC-U Structural Connectors can be used to fasten trays to floors, walls or cabinets and boxes. They mount to the splice holes of a cable tray and use a single 1/2" diameter bolt to fasten to the other structure. Sold in single units so two units are required to make a connection.

DETAILS

DETAILS

Detail K: HP-2525-CT, HP-2626-CT & HP-2929-CT Ground Clamp Details



Detail L: HP-CTGC, GB-26, GB-29, GB-34 & GB-39 Ground Clamp Details



The installations above show proper installation where the copper wire does not come in direct contact with the aluminum cable tray. Tray and cable contact is through a Tin-Plated connector. Oxidation Inhibitor (O.I.) can be used on connections.

DETAILS



2AHC Raised Double Bar Cover Clamp for side ventilation. 1" high shown. Suitable for indoor or outdoor use. Also available for peaked covers.

DETAILS



Enlarged Detail

DETAILS

Detail P: Wall Penetration Sleeve

PARTS:
(1) 24" Long Brake Formed Pan
(1) 24" Long Cover
(2) Wall Connectors With (6) B-100 Bolts & (6) N-100 Nuts For Each Connector
(2) Splice Plates With (6) B-100 Bolts & (6) N-100 Nuts For Each Splice Plate

(8) B-26 Self Drilling Self Taping Sheet Metal Cover Screws

Insert the Pan through the hole in the wall. Place a Wall Connector over each end of the tray and slide against the wall. When wall Connectors are in position mark the holes on the side of the pan. Field drill the mounting holes for mounting the Wall Connectors to the Pan. Mount wall connectors to wall *(hardware NOT included)*. Attach trays to the ends of the Pan using Splice Connectors to continue the runs on both sides of the wall. Install cables and then put the covers on the pan with the Self-Drilling Screws.



Note: Hardware quantity shown based on 6" High Tray

I-BEAM LADDER SPECIFICATION

1.0 Specification for Aluminum I-Beam 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, 18, 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", or 24' 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 Ladder-type cable tray longitudinal members shall be 4-1/2", 5", 6", 7", or 8" deep extruded aluminum I-Beam construction of 6063-T6 aluminum alloy.
- 3.2 Transverse members (rungs) shall be of extruded aluminum alloy 6063-T6 and shall be designed to prevent collection pockets for moisture or contaminant materials.
- 3.3 Transverse members (rungs) shall be clinched and/or welded to the side rails. Transverse members shall be located on 6", 9", 12", or 18" spacing.

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 Ladder-type cable tray shall have a load safety factor of 1.5 based on the destruction load capacity as defined within NEMA Standard VE-1.
- 5.2 The ladder-type cable tray shall meet or exceed the following NEMA load classification:

8A (50 lbs per ft/8 ft span)	16A (50 lbs per ft/16 ft span)
8B (75 lbs per ft/8 ft span)	16B (75 lbs per ft/16 ft span)
8C (100 lbs per ft/8 ft span)	16C (100 lbs per ft/16 ft span)
12A (50 lbs per ft/12 ft span)	20A (50 lbs per ft/20 ft span)
12B (75 lbs per ft/12 ft span)	20B (75 lbs. per ft/20 ft span)
12C (100 lbs per ft/12 ft span)	20C (100 lbs per ft/20 ft 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 VE-1.

8.0 Installation

8.1 Tray shall be installed in accordance with NEMA VE-2.

I-BEAM TROUGH SPECIFICATION

1.0 Specification for Aluminum I-Beam 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, 18, 24, 36, or 48-inch radius, unless otherwise shown on the drawings.
- 2.3 Trough-type tray straight sections shall be 10' 0", 12' 0", 20' 0", or 24' 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 Trough-type cable tray longitudinal members shall be 4-1/2", 5", 6", 7", or 8" deep extruded aluminum I-Beams of 6063-T6 aluminum alloy.
- 3.2 The transverse members (rungs) shall be of extruded aluminum alloy 6063-T6.
- 3.3 Trough bottom inserts shall be made of the following types: Corrugated, Bump Bottom, & Flat Sheet-type.

3.4 Trough Bottom Construction Methods

- (a) Ventilated & solid trough bottom shall be constructed with transverse members (rungs) and bottom inserts (Corrugation, Bump & Flat Sheet) between the transverse members & on each end of the trough. The transverse members shall be located on 12" spacing. Transverse members shall be clinched and/or welded to the side rail. The bottom inserts shall be made of aluminum and shall be attached to the bottom flange of the I-Beam shaped longitudinal member by means of clinching or welding at a minimum of 2 places per side of the bottom inserts (one on each end of each side).
- (b) Ventilated trough bottom shall be constructed with transverse members (rungs). The transverse members shall be located on 4" spacing. Transverse members shall be clinched and/or welded to the side rail.

3.5 Ventilated & Solid Trays Types

- (a) Solid Trough (Corrugated): Construction method (a) for widths of 6" 24" wide
- (b) Solid Trough (Bump): Construction method (a) for widths of 6" 36" wide
- (c) Solid Trough (Flat): Construction method (a) for widths 6" 36" wide
- (d) Ventilated Trough (Corrugated): Construction method (a) for widths of 6" 24" wide
- (e) Ventilated Trough (Flat): Construction method (a) for widths of 6" 36" wide
- (f) Ventilated Trough (4" Rung Spacing): Construction method (b) for widths of 6" 36" wide

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.

I-BEAM TROUGH SPECIFICATION

5.0 Loading

- 5.1 Trough-type cable tray shall have a load safety factor of 1.5 based on the destruction load capacity as defined within NEMA Standard VE-1.
- 5.2 The trough-type cable tray shall meet or exceed the following NEMA load classification:

8A (50 lbs per ft/8 ft span)	16A (50 lbs per ft/16 ft span)
8B (75 lbs per ft/8 ft span)	16B (75 lbs per ft/16 ft span)
8C (100 lbs per ft/8 ft span)	16C (100 lbs per ft/16 ft span)
12A (50 lbs per ft/12 ft span)	20A (50 lbs per ft/20 ft span)
12B (75 lbs per ft/12 ft span)	20B (75 lbs per ft/20 ft span)
12C (100 lbs per ft/12 ft span)	20C (100 lbs per ft/20 ft 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 VE-1.

8.0 Installation

8.1 Tray shall be installed in accordance with NEMA VE-2.







Horizonal Tee

Vertical Outside 90

I-BEAM FITTING LAYOUT DIMENSIONS (Except 16 & 18)

Manufactured & Tested In Accordance With NEMA VE-1

Classified By UL As An Equipment Grounding Conductor

CSA Classified Trays Available

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HORIZONTAL 90 DEGREE FITTING LAYOUT DIMENSIONS (Except 16 & 18)



Sample Catalog Number					
Prefix Fitting					
ALIJC	-12H90-24				

Width (W)	Select Tray Prefix	Horizontal 90°	Rad (in)	A (in)	B (in)	C (in)	L (in)
		-6H90-12	12	15	15	15	23-9/16
6''		-6H90-24	24	27	27	27	42-3/4
		-6H90-36	36	39	39	39	61-1/4
	A(L)IJA	-9H90-12	12	16-1/2	16-1/2	16-1/2	25-7/8
9"	A(L) IJB A(L) IJC	-9H90-24	24	28-1/2	28-1/2	28-1/2	44-3/4
	A(L)IJD	-9H90-36	36	40-1/2	40-1/2	40-1/2	63-5/8
	A(L) IYA	-12H90-12	12	18	18	18	28-1/4
12"	A(L) IYB A(L) IYC	-12H90-24	24	30	30	30	47-1/8
	A(L)IJC5	-12H90-36	36	42	42	42	66
	A(L) IYB5 A(L) IYC5	-18H90-12	12	21	21	21	33
18"		-18H90-24	24	33	33	33	51-13/16
	A(L) IMB A(L) IMC	-18H90-36	36	45	45	45	70-11/16
	A(L)IMD	-24H90-12	12	24	24	24	37-11/16
24"	A(L) IXA A(L) IXB	-24H90-24	24	36	36	36	56-9/16
	A(L) IXC	-24H90-36	36	48	48	48	75-7/16
	A(L)IXD	-30H90-12	12	27	27	27	42-7/16
30"	A(L) IMC7 A(L) IXC7	-30H90-24	24	39	39	39	61-1/4
	A(L)IXD7	-30H90-36	36	51	51	51	80-1/8
		-36H90-12	12	30	30	30	47-1/8
36"		-36H90-24	24	42	42	42	66
		-36H90-36	36	54	54	54	84-13/16

(L) = Ladder, (S) for Solid Bottom Trough, () Blank for Ventilated Trough or (4) for 4" Rung Spacing on 6" - 36" wide Ventilated Trough Double "A" for Length of back-to-back fittings or "B" for Offset Change of back-to-back fittings.

HORIZONTAL 60 DEGREE FITTING LAYOUT DIMENSIONS (Except 16 & 18)

Sample Catalog Number					
Prefix Fitting					
ALIJC	-12H60-24				



Width (W)	Select Tray Prefix	Horizontal 60°	Rad (in)	A (in)	B (in)	C (in)	L (in)
		-6H60-12	12	7-1/2	13	15	15-11/16
6"		-6H60-24	24	13-1/2	23-3/8	27	28-1/4
		-6H60-36	36	19-1/2	33-3/4	39	40-13/16
	A(L)IJA	-9H60-12	12	8-1/4	14-5/16	16-1/2	17-1/4
9"	A(L) IJB A(L) IJC	-9H60-24	24	14-1/4	24-11/16	28-1/2	29-13/16
	A(L)IJD	-9H60-36	36	20-1/4	36-1/16	40-1/2	42-3/8
	A(L)IYA	-12H60-12	12	9	15-9/16	18	18-7/8
12"	A(L) IYB A(L) IYC	-12H60-24	24	15	26	30	31-7/16
	A(L)IJC5	-12H60-36	36	21	36-3/8	42	44
	A(L) IYB5 A(L) IYC5	-18H60-12	12	10-1/2	18-3/16	21	22
18"		-18H60-24	24	16-1/2	28-9/16	33	34-9/16
	A(L) IMB A(L) IMC	-18H60-36	36	22-1/2	39	45	47-1/8
	A(L)IMD	-24H60-12	12	12	20-3/4	24	25-1/8
24''	A(L) IXA A(L) IXB	-24H60-24	24	18	31-3/16	36	37-11/16
	A(L) IXC	-24H60-36	36	24	41-9/16	48	50-1/4
	A(L)IXD	-30H60-12	12	13-1/2	23-3/8	27	28-1/4
30"	A(L) IMC7 A(L) IXC7	-30H60-24	24	19-1/2	33-3/4	39	40-13/16
	A(L) IXD7	-30Н60-36	36	25-1/2	44-3/16	51	53-3/8
		-36H60-12	12	15	26	30	31-7/16
36"		-36H60-24	24	21	36-3/8	42	44
		-36H60-36	36	27	46-3/4	54	56-9/16

FITTING LAYOUT DIMENSIONS

(L) = Ladder, (S) for Solid Bottom Trough, () Blank for Ventilated Trough or (4) for 4" Rung Spacing on 6" - 36" wide Ventilated Trough Double "B" for Length of back-to-back fittings or "A" for Offset Change of back-to-back fittings.

HORIZONTAL 45 DEGREE FITTING LAYOUT DIMENSIONS (Except 16 & 18)



Sample Catalog Number				
Prefix Fitting				
ALIJC	-12H45-24			

Width (W)	Select Tray Prefix	Horizontal 45°	Rad (in)	A (in)	B (in)	C (in)	L (in)
		-6H45-12	12	4-3/8	10-5/8	15	11-3/4
6"		-6H45-24	24	7-15/16	19-1/16	27	21-3/16
		-6H45-36	36	11-7/16	27-9/16	39	30-5/8
	A(L)IJA	-9H45-12	12	4-13/16	11-11/16	16-1/2	12-15/16
9"	A(L) IJB A(L) IJC	-9H45-24	24	8-3/8	20-11/16	28-1/2	22-3/8
	A(L)IJD	-9H45-36	36	11-7/8	28-5/8	40-1/2	31-13/16
	A(L)IYA	-12H45-12	12	5-1/4	12-3/4	18	14-1/8
12"	A(L) IYB A(L) IYC	-12H45-24	24	8-13/16	21-3/16	30	23-9/16
	A(L)IJC5	-12H45-36	36	12-5/16	29-11/16	42	33
	A(L) IYB5 A(L) IYC5	-18H45-12	12	6-1/8	14-7/8	21	16-1/2
18"		-18H45-24	24	9-11/16	23-5/16	33	25-15/16
	A(L) IMB A(L) IMC	-18H45-36	36	13-3/16	31-13/16	45	35-5/16
	A(L)IMD	-24H45-12	12	7	17	24	18-7/8
24''	A(L) IXA A(L) IXB	-24H45-24	24	10-9/16	25-7/16	36	28-1/4
	A(L)IXC A(L)IXD	-24H45-36	36	14-1/16	33-15/16	48	37-11/16
		-30H45-12	12	7-7/8	19-1/8	27	21-3/16
30"	A(L) IMC7 A(L) IXC7	-30H45-24	24	11-7/16	27-5/8	39	30-5/8
	A(L)IXD7	-30H45-36	36	14-15/16	36-1/16	51	40-1/16
		-36H45-12	12	8-7/8	21-3/16	30	23-9/16
36"		-36H45-24	24	12-5/16	29-11/16	42	33
		-36H45-36	36	15-13/16	38-3/16	54	42-7/16

(L) = Ladder, (S) for Solid Bottom Trough, () Blank for Ventilated Trough or (4) for 4" Rung Spacing on 6" - 36" wide Ventilated Trough Double "B" for Length of back-to-back fittings or "A" for Offset Change of back-to-back fittings.

FITTING LAYOUT DIMENSIONS

HORIZONTAL 30 DEGREE FITTING LAYOUT DIMENSIONS (Except 16 & 18)

Sample Catalog Number					
Prefix Fitting					
ALIJC	-12H30-24				



Width (W)	Select Tray Prefix	Horizontal 30°	Rad (in)	A (in)	B (in)	C (in)	L (in)
		-6H30-12	12	2	7-1/2	15	7-7/8
6"		-6H30-24	24	3-5/8	13-1/2	27	14-1/8
		-6H30-36	36	5-1/4	19-1/2	39	20-7/8
	A(L)IJA	-9H30-12	12	2-3/16	8-1/4	16-1/2	8-5/8
9"	A(L) IJB A(L) IJC	-9H30-24	24	3-13/16	14-1/4	28-1/2	14-7/8
	A(L)IJD	-9H30-36	36	5-7/16	20-1/4	40-1/2	21-1/4
	A(L)IYA	-12H30-12	12	2-7/16	9	18	9-7/16
12"	A(L) IYB A(L) IYC	-12H30-24	24	4	15	30	15-11/16
	A(L)IJC5	-12H30-36	36	5-5/8	21	42	22
	A(L) IYB5 A(L) IYC5	-18H30-12	12	2-13/16	10-1/2	21	11
18"		-18H30-24	24	4-7/16	16-1/2	33	17-1/4
	A(L) IMB A(L) IMC	-18H30-36	36	6	22-1/2	45	23-9/16
	A(L)IMD	-24H30-12	12	3-3/16	12	24	12-9/16
24''	A(L) IXA A(L) IXB	-24H30-24	24	4-13/16	18	36	18-7/8
	A(L) IXC	-24H30-36	36	6-7/16	24	48	25-1/8
	A(L)IXD	-30H30-12	12	3-5/8	13-1/2	27	14-1/8
30"	A(L) IMC7 A(L) IXC7	-30H30-24	24	5-1/4	19-1/2	39	20-7/16
	A(L)IXD7	-30H30-36	36	6-13/16	25-1/2	51	26-3/4
		-36H30-12	12	4	15	30	15-11/16
36"		-36H30-24	24	5-5/8	21	42	22
		-36H30-36	36	7-1/4	27	54	28-1/4

(L) = Ladder, (S) for Solid Bottom Trough, () Blank for Ventilated Trough or (4) for 4" Rung Spacing on 6" - 36" wide Ventilated Trough Double "B" for Length of back-to-back fittings or "A" for Offset Change of back-to-back fittings.

FITTING LAYOUT DIMENSIONS

mphusky

HORIZONTAL TEE FITTING LAYOUT DIMENSIONS (Except 16 & 18)



Sample Catalog Number					
Prefix Fitting					
ALIJC	-12T-24				

Width (W)	Select Tray Prefix	Horizontal Tee	Rad (in)	A (in)	B (in)	C (in)	E (in)	L (in)
		-6T-12	12	15	30	15	18	23-9/16
6"		-6T-24	24	27	54	27	30	42-3/8
		-6T-36	36	39	78	39	42	61-1/4
	A(L)IJA	-9T-12	12	16-1/2	33	16-1/2	21	25-15/16
9"	A(L) IJB A(L) IJC	-9T-24	24	28-1/2	57	28-1/2	33	44-3/4
	A(L)IJD	-9T-36	36	40-1/2	81	40-1/2	45	63-5/8
	A(L) IYA	-12T-12	12	18	36	18	24	28-1/4
12"	A(L) IYB A(L) IYC	-12T-24	24	30	60	30	36	47-1/8
	A(L)IJC5	-12T-36	36	42	84	42	48	66
	A(L) IYB5 A(L) IYC5	-18T-12	12	21	42	21	30	33
18"		-18T-24	24	33	66	33	42	51-13/16
	A(L) IMB A(L) IMC	-18T-36	36	45	90	45	54	70-11/16
	A(L) IMD	-24T-12	12	24	48	24	36	37-11/16
24''	A(L) IXA A(L) IXB	-24T-24	24	36	72	36	48	59-9/16
	A(L)IXC	-24T-36	36	48	96	48	60	75-7/16
	A(L) IXD	-30T-12	12	27	54	27	42	42-7/16
30"	A(L) IMC7 A(L) IXC7	-30T-24	24	39	78	39	54	61-1/4
	A(L) IXD7	-30T-36	36	51	102	51	66	80-1/8
		-36T-12	12	30	60	30	48	47-1/8
36"		-36T-24	24	42	84	42	60	66
		-36T-36	36	54	108	54	72	84-13/16

HORIZONTAL REDUCING TEE FITTING LAYOUT DIMENSIONS (Except 16 & 18)

Sample Catalog Number					
Prefix Fitting					
ALIJC	-12T9-24				



Width (W)	Width (W1)	Select Tray Prefix	Horizontal Reducing Tee	Rad (in)	A (in)	B (in)	D (in)	E (in)	
			-9T6-12	12	15	30	16-1/2	21	
9"	6"		-9T6-24	24	27	54	28-1/2	33	
			-9T6-36	36	39	78	40-1/2	45	
		A(L)IJA	-12T6-12	12	15	30	18	24	
12"	6''	A(L) IJB A(L) IJC	-12T6-24	24	27	54	30	36	
		A(L)IJD	-12T6-36	36	39	78	42	48	
		A(L) IYA	-12T9-12	12	16-1/2	33	18	24	
12"	9"	A(L) IYB A(L) IYC	-12T9-24	24	28-1/2	57	30	36	
		A(L)IJC5	-12T9-36	36	40-1/2	81	42	48	
		A(L) IYB5 A(L) IYC5	-18T6-12	12	15	30	21	30	
18"	6''		-18T6-24	24	27	54	33	42	
		A(L) IMB A(L) IMC	-18T6-36	36	39	78	45	54	
		A(L)IMD	-18T9-12	12	16-1/2	33	21	30	
18"	9"	A(L) IXA A(L) IXB	-18T9-24	24	28-1/2	57	21	30	
			A(L) IXC	-18T9-36	36	40-1/2	81	45	54
	12"	A(L) IXD A(L) IMC7 A(L) IXC7	-18T12-12	12	18	36	21	30	
18"			-18T12-24	24	30	60	33	42	
		A(L) IXD7	-18T12-36	36	42	84	45	54	
			-24T6-12	12	15	30	24	36	
24''	6''		-24T6-24	24	27	54	36	48	
			-24T6-36	36	39	78	48	60	

HORIZONTAL REDUCING TEE FITTING LAYOUT DIMENSIONS (Except 16 & 18)



Sample Catalog Number				
Prefix Fitting				
ALIJC	-24T9-24			

Width (W)	Width (W1)	Select Tray Prefix	Horizontal Reducing Tee	Rad (in)	A (in)	B (in)	D (in)	E (in)
24''			-24T9-12	12	16-1/2	33	24	36
	9"		-24T9-24	24	28-1/2	57	36	48
			-24T9-36	36	40-1/2	81	48	60
		A(L) IJA A(L) IJB	-24T12-12	12	18	36	24	36
24''	12"	A(L) IJB A(L) IJC	-24T12-24	24	30	60	36	48
		A(L) IJD	-24T12-36	36	42	84	48	60
		A(L)IYA	-24T18-12	12	21	42	24	36
24''	18"	A(L) IYB A(L) IYC	-24T18-24	24	33	66	36	48
		A(L)IJC5	-24T18-36	36	45	90	48	60
	6"	A(L) IYB5 A(L) IYC5	-30T6-12	12	15	30	27	42
30"			-30T6-24	24	27	54	39	54
		A(L) IMB A(L) IMC	-30T6-36	36	39	78	51	66
	9"	A(L)IMD	-30T9-12	12	16-1/2	33	27	42
30"		A(L) IXA A(L) IXB	-30T9-24	24	28-1/2	57	39	54
		A(L) IXC A(L) IXD	-30T9-36	36	40-1/2	81	51	66
	12"		-30T12-12	12	18	36	27	42
30"		A(L) IMC7 A(L) IXC7	-30T12-24	24	30	60	39	54
		A(L)IXD7	-30T12-36	36	42	84	51	66
			-30T18-12	12	21	42	27	42
30"	18"		-30T18-24	24	33	66	39	54
			-30T18-36	36	45	90	51	66

HORIZONTAL REDUCING TEE FITTING LAYOUT DIMENSIONS (Except 16 & 18)

Sample Catalog Number					
Prefix Fitting					
ALIJC	-36T12-12				



Width (W)	Width (W1)	Select Tray Prefix	Horizontal Reducing Tee	Rad (in)	A (in)	B (in)	D (in)	E (in)
30"			30T24-12	12	24	48	27	42
	24''		-30T24-24	24	36	72	39	54
			-30T24-36	36	48	96	51	66
		A(L)IJA	-36T6-12	12	15	30	30	48
36"	6''	A(L) IJB A(L) IJC	-36T6-24	24	27	54	42	60
		A(L)IJD	-36T6-36	36	39	78	54	72
		A(L) IYA	-36T9-12	12	16-1/2	33	30	48
36"	9"	A(L) IYB A(L) IYC	-36T9-24	24	28-1/2	57	42	60
		A(L)IJC5	-36T9-36	36	40-1/2	81	54	72
	<mark>+</mark> 2"	A(L) IYB5 A(L) IYC5	-36T12-12	12	18	36	30	48
36"			-36T12-24	24	30	60	42	60
		A(L) IMB A(L) IMC	-36T12-36	36	42	84	54	72
	18"	A(L)IMD	-36T18-12	12	21	42	30	48
36"		A(L) IXA A(L) IXB	-36T18-24	24	33	66	42	60
		A(L) IXC	-36T18-36	36	45	90	54	72
	24''	A(L) IXD	-36T24-12	12	24	48	30	48
36"		A(L) IMC7 A(L) IXC7	-36T24-24	24	36	72	42	60
		A(L)IXD7	-36T24-36	36	48	96	54	72
36''	30''		-36T30-12	12	27	54	30	48
			-36T30-24	24	39	78	42	60
			-36T30-36	36	51	102	54	72

HORIZONTAL ENLARGING TEE FITTING LAYOUT DIMENSIONS (Except 16 & 18)



Sample Catalog Number					
Prefix Fitting					
ALIJC	-6T36-36				

Width (W)	Width (W1)	Select Tray Prefix	Horizontal Enlarging Tee	Rad (in)	A (in)	B (in)	D (in)	E (in)
			-6T9-12	12	16-1/2	33	15	18
6"	9"		-6T9-24	24	28-1/2	57	27	30
			-6T9-36	36	40-1/2	81	39	42
		A(L)IJA	-6T12-12	12	18	36	15	18
6"	12"	A(L) IJB A(L) IJC	-6T12-24	24	30	60	27	30
		A(L)IJD	-6T12-36	36	42	84	39	42
		A(L) IYA	-6T18-12	12	21	42	15	18
6"	18"	A(L) IYB A(L) IYC	-6T18-24	24	33	66	27	30
		A(L)IJC5	-6T18-36	36	45	90	39	42
		A(L) IYB5 A(L) IYC5	-6T24-12	12	24	48	15	18
6"	24"		-6T24-24	24	36	72	27	30
		A(L) IMB A(L) IMC	-6T24-36	36	48	96	39	42
		A(L)IMD	-6T30-12	12	27	54	15	18
6"	30"	A(L) IXA A(L) IXB	-6T30-24	24	39	78	27	30
		A(L)IXC	-6T30-36	36	51	102	39	42
	36"	A(L) IXD A(L) IMC7 A(L) IXC7	-6T36-12	12	30	60	15	18
6"			-6T36-24	24	42	84	27	30
		A(L)IXD7	-6T36-36	36	54	108	39	42
			-9T12-12	12	18	36	16-1/2	21
9"	12"		-9T12-24	24	30	60	28-1/2	33
			-9T12-36	36	42	84	40-1/2	45
HORIZONTAL ENLARGING TEE FITTING LAYOUT DIMENSIONS (Except 16 & 18)

Sample Cata	alog Number	≺ ——"B" ———
Prefix	Fitting	·
ALIJC	-12T30-24	"W"
		← "W1" →

Width (W)	Width (W1)	Select Tray Prefix	Horizontal Enlarging Tee	Rad (in)	A (in)	B (in)	D (in)	E (in)
			-9T18-12	12	21	42	16-1/2	21
9"	18"		-9T18-24	24	33	66	28-1/2	33
			-9T18-36	36	45	90	40-1/2	45
		A(L)IJA	-9T24-12	12	24	48	16-1/2	21
9"	24"	A(L) IJB A(L) IJC	-9T24-24	24	36	72	28-1/2	33
		A(L)IJD	-9T24-36	36	48	96	40-1/2	45
		A(L) IYA	-9T30-12	12	27	54	16-1/2	21
9"	30"	A(L) IYB A(L) IYC A(L) IJC5	-9T30-24	24	39	78	28-1/2	33
			-9T30-36	36	51	102	40-1/2	45
		A(L) IYB5 A(L) IYC5	-9T36-12	12	30	60	16-1/2	21
9"	36"		-9T36-24	24	42	84	28-1/2	33
		A(L) IMB A(L) IMC	-9T36-36	36	54	108	40-1/2	45
		A(L)IMD	-12T18-12	12	21	42	18	24
12"	18"	A(L) IXA A(L) IXB	-12T18-24	24	33	66	30	36
		A(L) IXC	-12T18-36	36	45	90	42	48
		A(L) IXD	-12T24-12	12	24	48	18	24
12"	24"	A(L) IMC7 A(L) IXC7	-12T24-24	24	36	72	30	36
		A(L)IXD7	-12T24-36	36	48	96	42	48
			-12T30-12	12	27	54	18	24
12"	30"		-12T30-24	24	39	78	30	36
			-12T30-36	36	51	102	42	48

HORIZONTAL ENLARGING TEE FITTING LAYOUT DIMENSIONS (Except 16 & 18)



Sample Catalog Number					
Prefix	Fitting				
ALIJC	-18T24-24				

Width (W)	Width (W1)	Select Tray Prefix	Horizontal Enlarging Tee	Rad (in)	A (in)	B (in)	D (in)	E (in)
			-12T36-12	12	30	60	18	24
12"	36"		-12T36-24	24	42	84	30	36
			-12T36-36	36	54	108	42	48
		A(L)IJA	-18T24-12	12	24	48	21	30
18"	24"	A(L) IJB A(L) IJC	-18T24-24	24	36	72	33	42
		A(L)IJD	-18T24-36	36	48	96	45	54
		A(L) IYA	-18T30-12	12	27	54	21	30
18"	30"	A(L) IYB A(L) IYC	-18T30-24	24	39	78	33	42
		A(L)IJC5	-18T30-36	36	51	102	45	54
		A(L) IYB5 A(L) IYC5	-18T36-12	12	30	60	21	30
18"	36"		-18T36-24	24	42	84	33	42
		A(L) IMB A(L) IMC	-18T36-36	36	54	108	45	54
		A(L)IMD	-24T30-12	12	27	54	24	36
24''	30"	A(L) IXA A(L) IXB	-24T30-24	24	39	78	36	48
		A(L) IXC	-24T30-36	36	51	102	48	60
		A(L) IXD	-24T36-12	12	30	60	24	36
24''	36"	A(L) IMC7 A(L) IXC7	-24T36-24	24	42	84	36	48
		A(L)IXD7	-24T36-36	36	54	108	48	60
			-30T36-12	12	30	60	27	36
30"	36"		-30T36-24	24	42	84	39	48
			-30T36-36	36	54	108	51	60

HORIZONTAL CROSS FITTING LAYOUT DIMENSIONS (Except 16 & 18)

Sample Catalog Number				
Prefix	Fitting			
ALIJC	-12X-24			



Width (W)	Select Tray Prefix	Horizontal Cross	Rad (in)	A (in)	B (in)	C (in)	E (in)	L (in)
		-6X-12	12	15	30	15	30	23-9/16
6"		-6X-24	24	27	54	27	54	42-3/8
		-6X-36	36	39	78	39	78	61-1/4
	A(L)IJA	-9X-12	12	16-1/2	33	16-1/2	33	25-7/8
9"	A(L) IJB A(L) IJC	-9X-24	24	28-1/2	57	28-1/2	57	44-3/4
	A(L)IJD	-9X-36	36	40-1/2	81	40-1/2	81	63-5/8
	A(L) IYA	-12X-12	12	18	36	18	36	28-1/4
12"	A(L) IYB A(L) IYC	-12X-24	24	30	60	30	60	47-1/8
	A(L)IJC5	-12X-36	36	42	84	42	84	66
	A(L) IYB5 A(L) IYC5	-18X-12	12	21	42	21	42	33
18"		-18X-24	24	33	66	33	66	51-13/16
	A(L) IMB A(L) IMC	-18X-36	36	45	90	45	90	70-11/16
	A(L) IMD	-24X-12	12	24	48	24	48	37-11/16
24"	A(L) IXA A(L) IXB	-24X-24	24	36	72	36	72	59-9/16
	A(L) IXC	-24X-36	36	48	96	48	96	75-7/16
	A(L)IXD	-30X-12	12	27	54	27	54	42-7/16
30"	A(L) IMC7 A(L) IXC7	-30X-24	24	39	78	39	78	61-1/4
	A(L)IXD7	-30X-36	36	51	102	51	102	80-1/8
		-36X-12	12	30	60	30	60	47-1/8
36"		-36X-24	24	42	84	42	84	66
		-36X-36	36	54	108	54	108	84-13/16

HORIZONTAL REDUCING CROSS FITTING LAYOUT DIMENSIONS (Except 16 & 18)



Sample Catalog Number				
Prefix	Fitting			
ALIJC	-9X6-24			

Width (W)	Width (W1)	Select Tray Prefix	Horizontal Reducing Cross	Rad (in)	A (in)	B (in)	D (in)	E (in)
			-9X6-12	12	15	30	16-1/2	33
9"	6''		-9X6-24	24	27	54	28-1/2	57
			-9X6-36	36	39	78	40-1/2	81
		A(L)IJA	-12X6-12	12	15	30	18	36
12"	6''	A(L) IJB A(L) IJC	-12X6-24	24	27	54	30	60
		A(L)IJD	-12X6-36	36	39	78	42	84
		A(L) IYA	-12X9-12	12	16-1/2	33	18	36
12"	9"	A(L) IYB A(L) IYC A(L) IJC5	-12X9-24	24	28-1/2	57	30	60
			-12X9-36	36	40-1/2	81	42	84
	6''	A(L) IYB5 A(L) IYC5	-18X6-12	12	15	30	21	42
18"			-18X6-24	24	27	54	33	66
		A(L) IMB A(L) IMC	-18X6-36	36	39	78	45	90
		A(L)IMD	-18X9-12	12	16-1/2	33	21	42
18"	9"	A(L) IXA A(L) IXB	-18X9-24	24	28-1/2	57	33	66
		A(L) IXC	-18X9-36	36	40-1/2	81	45	90
		A(L) IXD	-18X12-12	12	18	36	21	42
18"	12"	A(L) IMC7 A(L) IXC7	-18X12-24	24	30	60	33	66
		A(L)IXD7	-18X12-36	36	42	84	45	90
			-24X6-12	12	15	30	24	48
24''	6''		-24X6-24	24	27	54	36	72
			-24X6-36	36	39	78	48	96

HORIZONTAL REDUCING CROSS FITTING LAYOUT DIMENSIONS (Except 16 & 18)

Sample Catalog Number				
Prefix	Fitting			
ALIJC	-24X12-24			



Width (W)	Width (W1)	Select Tray Prefix	Horizontal Reducing Cross	Rad (in)	A (in)	B (in)	D (in)	E (in)
			-24X9-12	12	16-1/2	33	24	48
24''	9"		-24X9-24	24	28-1/2	57	36	72
			-24X9-36	36	40-1/2	81	48	96
		A(L)IJA	-24X12-12	12	18	36	24	48
24''	12"	A(L) IJB A(L) IJC	-24X12-24	24	30	60	36	72
		A(L)IJD	-24X12-36	36	42	84	48	96
		A(L) IYA	-24X18-12	12	21	42	24	48
24''	18"	A(L) IYB A(L) IYC	-24X18-24	24	33	66	36	72
		A(L)IJC5	-24X18-36	36	45	90	48	96
		A(L) IYB5 A(L) IYC5	-30X6-12	12	15	30	27	54
30"	6"		-30X6-24	24	27	54	39	78
		A(L) IMB A(L) IMC	-30X6-36	36	39	78	51	102
		A(L)IMD	-30X9-12	12	16-1/2	33	27	54
30"	9"	A(L) IXA A(L) IXB	-30X9-24	24	28-1/2	57	39	78
		A(L) IXC	-30X9-36	36	40-1/2	81	51	102
		A(L) IXD	-30X12-12	12	18	36	27	54
30"	12"	A(L) IMC7 A(L) IXC7	-30X12-24	24	30	60	39	78
		A(L)IXD7	-30X12-36	36	42	84	51	102
			-30X18-12	12	21	42	27	54
30"	18"		-30X18-24	24	33	66	39	78
			-30X18-36	36	45	90	51	102

HORIZONTAL REDUCING CROSS FITTING LAYOUT DIMENSIONS (Except 16 & 18)



Sample Catalog Number				
Prefix	Fitting			
ALIJC	-36X18-12			

Width (W)	Width (W1)	Select Tray Prefix	Horizontal Reducing Cross	Rad (in)	A (in)	B (in)	D (in)	E (in)
			-30X24-12	12	24	48	27	54
30"	24''		-30X24-24	24	36	72	39	78
			-30X24-36	36	48	96	51	102
		A(L)IJA	-36X6-12	12	15	30	30	60
36"	6''	A(L) IJB A(L) IJC	-36X6-24	24	27	54	42	84
		A(L)IJD	-36X6-36	36	39	78	54	108
		A(L)IYA	-36X9-12	12	16-1/2	33	30	60
36''	9"	A(L) IYB A(L) IYC	-36X9-24	24	28-1/2	57	42	84
		A(L)IJC5	-36X9-36	36	40-1/2	81	54	108
	12"	A(L) IYB5 A(L) IYC5	-36X12-12	12	18	36	30	60
36"			-36X12-24	24	30	60	42	84
		A(L) IMB A(L) IMC	-36X12-36	36	42	84	54	108
		A(L)IMD	-36X18-12	12	21	42	30	60
36''	18"	A(L) IXA A(L) IXB	-36X18-24	24	33	66	42	84
		A(L)IXC	-36X18-36	36	45	90	54	108
		A(L) IXD	-36X24-12	12	24	48	30	60
36''	24''	A(L) IMC7 A(L) IXC7	-36X24-24	24	36	72	42	84
		A(L)IXD7	-36X24-36	36	48	96	54	108
			-36X30-12	12	27	54	30	60
36"	30"		-36X30-24	24	39	78	42	84
			-36X30-36	36	51	102	54	108

HORIZONTAL ENLARGING CROSS FITTING LAYOUT DIMENSIONS (Except 16 & 18)

Sample Catalog Number				
Prefix Fitting				
ALIJC	-6X9-24			

	-	— "B" —		
	<"A" —		-"A" —	
				"D"
₩" "₩"		 		▲ "E"
			"R"	"D"
		⊢"W1" →		

Width (W)Width (W1)Select Tray PrefixHorizontal Enlarging CrossRad (in)A (in)B (in)6"9"-6X9-121216-1/233	D (in) 15 27	E (in) 30
	-	30
6" 9" -6X9-24 24 28-1/2 57	27	
		54
-6X9-36 36 40-1/2 81	39	78
A(L)IJA -6X12-12 12 18 36	15	30
6" 12" A(L) IJB -6X12-24 24 30 60	27	54
A(L) IJD -6X12-36 36 42 84	39	78
A(L)IYA -6X18-12 12 21 42	15	30
6" 18" A(L) IYB -6X18-24 24 33 66	27	54
A(L)IJC5 -6X18-36 36 45 90	39	78
A(L) IYB5 A(L) IYC5 -6X24-12 12 24 48	15	30
6" 24" -6X24-24 24 36 72	27	54
A(L) IMB A(L) IMC -6X24-36 36 48 96	39	78
A(L)IMD -6X30-12 12 27 54	15	30
6" 30" A(L) IXA -6X30-24 24 39 78 A(L) IXB	27	54
A(L)IXC -6X30-36 36 51 102	39	78
A(L) IXD -6X36-12 12 30 60	15	30
6" 36" A(L) IMC7 -6X36-24 24 42 84	27	54
A(L) IXD7 -6X36-36 36 54 108	39	78
-9X12-12 12 18 36	16-1/2	33
9" 12" -9X12-24 24 30 60	28-1/2	57
-9X12-36 36 42 84	40-1/2	81

HORIZONTAL ENLARGING CROSS FITTING LAYOUT DIMENSIONS (Except 16 & 18)



Sample Catalog Number					
Prefix	Fitting				
ALIJC	-9X30-24				

		← W1 →						
Width (W)	Width (W1)	Select Tray Prefix	Horizontal Enlarging Cross	Rad (in)	A (in)	B (in)	D (in)	E (in)
			-9X18-12	12	21	42	16-1/2	33
9"	18"		-9X18-24	24	33	66	28-1/2	57
			-9X18-36	36	45	90	40-1/2	81
		A(L)IJA	-9X24-12	12	24	48	16-1/2	33
9"	24''	A(L) IJB A(L) IJC	-9X24-24	24	36	72	28-1/2	57
		A(L)IJD	-9X24-36	36	48	96	40-1/2	81
		A(L) IYA	-9X30-12	12	27	54	16-1/2	33
9"	30"	A(L) IYB A(L) IYC	-9X30-24	24	39	78	28-1/2	57
		A(L)IJC5	-9X30-36	36	51	102	40-1/2	81
		A(L) IYB5 A(L) IYC5	-9X36-12	12	30	60	16-1/2	33
9"	36"		-9X36-24	24	42	84	28-1/2	57
		A(L) IMB A(L) IMC	-9X36-36	36	54	108	40-1/2	81
		A(L) IMD	-12X18-12	12	21	42	18	36
12"	18"	A(L) IXA A(L) IXB	-12X18-24	24	33	66	30	60
		A(L)IXC	-12X18-36	36	45	90	42	84
		A(L) IXD	-12X24-12	12	24	48	18	36
12"	12" 24"	A(L) IMC7 A(L) IXC7	-12X24-24	24	36	72	30	60
		A(L)́ IXD7	-12X24-36	36	48	96	42	84
			-12X30-12	12	27	54	18	36
12"	30"		-12X30-24	24	39	78	30	60
			-12X30-36	36	51	102	42	84

HORIZONTAL ENLARGING CROSS FITTING LAYOUT DIMENSIONS (Except 16 & 18)

Sample Catalog Number				
Prefix	Fitting			
ALIJC	-24X36-24			

	-	– "B" —	•	
	◄ —"A" —	► ◄	-"A" ─ ►	
				"D"
<u> </u>			"R"	"D"
	-	- "W1" - ►		

Width (W)	Width (W1)	Select Tray Prefix	Horizontal Enlarging Cross	Rad (in)	A (in)	B (in)	D (in)	E (in)
			-12X36-12	12	30	60	18	36
12"	36"		-12X36-24	24	42	84	30	60
			-12X36-36	36	54	108	42	84
		A(L)IJA	-18X24-12	12	24	48	21	42
18"	24''	A(L) IJB A(L) IJC	-18X24-24	24	36	72	33	66
		A(L)IJD	-18X24-36	36	48	96	45	90
		A(L) IYA A(L) IYB	-18X30-12	12	27	54	21	42
18"	30"	A(L)IYC	-18X30-24	24	39	78	33	66
		A(L)IJC5	-18X30-36	36	51	102	45	90
		A(L) IYB5 A(L) IYC5	-18X36-12	12	30	60	21	42
18"	36"		-18X36-24	24	42	84	33	66
		A(L) IMB A(L) IMC	-18X36-36	36	54	108	45	90
		A(L)IMC A(L)IMD	-24X30-12	12	27	54	24	48
24''	30"	A(L) IXA	-24X30-24	24	39	78	36	72
		A(L) IXB A(L) IXC	-24X30-36	36	51	102	48	96
		A(L)IXD	-24X36-12	12	30	60	24	48
24''	24" 36"	A(L)IMC7	-24X36-24	24	42	84	36	72
		A(L) IXC7 A(L) IXD7	-24X36-36	36	54	108	48	96
			-30X36-12	12	30	60	27	54
30"	36"	36"	-30X36-24	24	42	84	39	78
			-30X36-36	36	54	108	51	102

VERTICAL 90 DEGREE FITTING LAYOUT DIMENSIONS (Except 16 & 18)



Sample Catalog Number				
Prefix Fitting				
ALIJC	-12VI90-24			



Sample Catalo	Sample Catalog Number			
Prefix	Fitting			
ALIJC	-12VO90-24			

Tray Height	Select Tray Prefix	Vertical Inside 90°	Vertical Outside 90°	Rad (in)	R (in)	A (in)	B (in)	C (in)	L (in)
	A(L) IJA , A(L) IJB ,	-(W)VI90-12	-(W)VO90-12	12	11-7/8	14-1/8	14-1/8	14-1/8	22-3/16
4.5"	A(L) IJC , A(L) IJD , A(L) IYA , A(L) IYB ,	-(W)VI90-24	-(W)VO90-24	24	22-1/2	24-3/4	24-3/4	24-3/4	38-7/8
	A(L)IYC	-(W)VI90-36	-(W)VO90-36	36	34-5/8	36-7/8	36-7/8	36-7/8	57-15/16
	A(L)IJC5,	-(W)VI90-12	-(W)VO90-12	12	11-7/8	14-3/8	14-3/8	14-3/8	22-9/16
5"	A(L)IYB5,	-(W)VI90-24	-(W)VO90-24	24	22-1/2	25	25	25	39-1/4
	A(L)IYC5	-(W)VI90-36	-(W)VO90-36	36	34-5/8	37-1/8	37-1/8	37-1/8	58-5/16
	A(L) IMB , A(L) IMC ,	-(W)VI90-12	-(W)VO90-12	12	11-7/8	14-7/8	14-7/8	14-7/8	23-3/8
6"	A(L)IMD, A(L)IXA, A(L)IXB, A(L)IXC,	-(W)VI90-24	-(W)VO90-24	24	22-1/2	25-1/2	25-1/2	25-1/2	40-1/16
	A(L)IXD	-(W)VI90-36	-(W)VO90-36	36	34-5/8	37-5/8	37-5/8	37-5/8	57-1/2
	A(L)IMC7,	-(W)VI90-12	-(W)VO90-12	12	11-7/8	15-3/8	15-3/8	15-3/8	24-5/32
7"	A(L)IXC7,	-(W)VI90-24	-(W)VO90-24	24	22-1/2	26	26	26	40-7/8
	A(L)IXD7	-(W)VI90-36	-(W)VO90-36	36	34-5/8	38-1/8	38-1/8	38-1/8	59-3/4

(L) = Ladder, (S) for Solid Bottom Trough, () Blank for Ventilated Trough or (4) for 4" Rung Spacing on 6" - 36" wide Ventilated Trough

(W) = Insert Width (in) (6, 9, 12, 18, 24, 30, or 36)

VERTICAL 60 DEGREE FITTING LAYOUT DIMENSIONS (Except 16 & 18)





Sample Catalog Number					
Prefix Fitting					
ALIJC	-12VI60-24				

Sample Catalog Number					
Prefix Fitting					
ALIJC	-12VO60-24				

Tray Height	Select Tray Prefix	Vertical Inside 60°	Vertical Outside 60°	Rad (in)	R (in)	A (in)	B (in)	C (in)	L (in)
	A(L) IJA , A(L) IJB ,	-(W)VI60-12	-(W)VO60-12	12	11-7/8	12-1/4	7-1/16	14-1/8	14-13/16
4.5"	A(L) IJC , A(L) IJD , A(L) IYA , A(L) IYB ,	-(W)VI60-24	-(W)VO60-24	24	22-1/2	21-7/16	12-3/8	24-3/4	25-15/16
	A(L)IYC	-(W)VI60-36	-(W)VO60-36	36	34-5/8	31-13/16	18-3/8	36-7/8	38-1/2
	A(L)IJC5,	-(W)VI60-12	-(W)VO60-12	12	11-7/8	12-7/16	7-3/16	14-1/8	15-1/16
5"	A(L)IYB5,	-(W)VI60-24	-(W)VO60-24	24	22-1/2	21-21/32	12-1/2	24-3/4	26-3/16
	A(L)IYC5	-(W)VI60-36	-(W)VO60-36	36	34-5/8	32-5/32	18-9/16	36-7/8	38-7/8
	A(L)IMB, A(L)IMC,	-(W)VI60-12	-(W)VO60-12	12	11-7/8	12-7/8	7-7/16	14-1/8	15-9/16
6"	A(L)IMD, A(L)IXA, A(L)IXB, A(L)IXC,	-(W)VI60-24	-(W)VO60-24	24	22-1/2	22-1/16	12-3/4	24-3/4	26-11/16
	A(L)IXD	-(W)VI60-36	-(W)VO60-36	36	34-5/8	32-1/2	18-3/4	36-7/8	38-1/4
	A(L) IMC7 ,	-(W)VI60-12	-(W)VO60-12	12	11-7/8	13-5/16	7-11/16	14-1/8	16-1/8
7"	A(L)IXC7,	-(W)VI60-24	-(W)VO60-24	24	22-1/2	22-1/2	13	24-3/4	27-1/4
	A(L)IXD7	-(W)VI60-36	-(W)VO60-36	36	34-5/8	32-15/16	19	36-7/8	39-13/16

(L) = Ladder, (S) for Solid Bottom Trough, () Blank for Ventilated Trough or (4) for 4" Rung Spacing on 6" - 36" wide Ventilated Trough (W) = Lagert Wilth (i) (G 0, 12, 18, 24, 20, m^2 C)

(W) = Insert Width (in) (6, 9, 12, 18, 24, 30, or 36)

VERTICAL 45 DEGREE FITTING LAYOUT DIMENSIONS (Except 16 & 18)





Sample Catalog Number					
Prefix Fitting					
ALIJC	-12VI45-24				

Sample Catalog Number				
Prefix Fitting				
ALIJC	-12VO45-24			

Tray Height	Select Tray Prefix	Vertical Inside 45°	Vertical Outside 45°	Rad (in)	R (in)	A (in)	B (in)	C (in)	L (in)
	A(L) IJA , A(L) IJB ,	-(W)VI45-12	-(W)VO45-12	12	11-7/8	10	4-1/8	14-1/8	11-1/8
4.5"	A(L) IJC , A(L) IJD , A(L) IYA , A(L) IYB ,	-(W)VI45-24	-(W)VO45-24	24	22-1/2	17-1/2	7-1/4	24-3/4	19-7/16
	A(L)IYC	-(W)VI45-36	-(W)VO45-36	36	34-5/8	26	10-3/4	36-7/8	28-7/8
	A(L)IJC5,	-(W)VI45-12	-(W)VO45-12	12	11-7/8	10-5/32	4-7/32	14-1/8	11-9/32
5"	A(L)IYB5,	-(W)VI45-24	-(W)VO45-24	24	22-1/2	17-11/16	7-5/16	24-3/4	19-5/8
	A(L)IYC5	-(W)VI45-36	-(W)VO45-36	36	34-5/8	26-1/4	10-7/8	36-7/8	29-5/32
	A(L)IMB, A(L)IMC,	-(W)VI45-12	-(W)VO45-12	12	11-7/8	10-1/2	4-3/8	14-1/8	11-11/16
6"	A(L)IMD, A(L)IXA, A(L)IXB, A(L)IXC,	-(W)VI45-24	-(W)VO45-24	24	22-1/2	18	7-1/2	24-3/4	20
	A(L)IXD	-(W)VI45-36	-(W)VO45-36	36	34-5/8	26-1/2	11	36-7/8	29-7/16
	A(L) IMC7 ,	-(W)VI45-12	-(W)VO45-12	12	11-7/8	10-7/8	4-1/2	14-1/8	12-1/16
7"	A(L)IXC7,	-(W)VI45-24	-(W)VO45-24	24	22-1/2	18-3/8	7-5/8	24-3/4	20-7/16
	A(L)IXD7	-(W)VI45-36	-(W)VO45-36	36	34-5/8	26-7/8	11-1/8	36-7/8	29-13/16

(L) = Ladder, (S) for Solid Bottom Trough, () Blank for Ventilated Trough or (4) for 4" Rung Spacing on 6" - 36" wide Ventilated Trough

(W) = Insert Width (in) (6, 9, 12, 18, 24, 30, or 36)

VERTICAL 30 DEGREE FITTING LAYOUT DIMENSIONS (Except 16 & 18)





Sample Catalog Number				
Prefix Fitting				
ALIJC	-12VI30-24			

Sample Catalog Number					
Prefix Fitting					
ALIJC	-12VO30-24				

Tray Height	Select Tray Prefix	Vertical Inside 30°	Vertical Outside 30°	Rad (in)	R (in)	A (in)	B (in)	C (in)	L (in)
	A(L) IJA , A(L) IJB ,	-(W)VI30-12	-(W)VO30-12	12	11-7/8	7-1/16	1-7/8	14-1/8	7-3/8
4.5"	A(L) IJC , A(L) IJD , A(L) IYA , A(L) IYB ,	-(W)VI30-24	-(W)VO30-24	24	22-1/2	12-3/8	3-5/16	24-3/4	12-15/16
	A(L)IYC	-(W)VI30-36	-(W)VO30-36	36	34-5/8	18-3/8	4-15/16	36-7/8	19-1/4
	A(L)IJC5,	-(W)VI30-12	-(W)VO30-12	12	11-7/8	7-3/16	1-15/16	14-1/8	7-17/32
5"	A(L)IYB5,	-(W)VI30-24	-(W)VO30-24	24	22-1/2	12-1/2	3-11/32	24-3/4	13-3/32
	A(L)IYC5	-(W)VI30-36	-(W)VO30-36	36	34-5/8	18-9/16	4-31/32	36-7/8	19-7/16
	A(L)IMB, A(L)IMC,	-(W)VI30-12	-(W)VO30-12	12	11-7/8	7-7/16	2	14-1/8	7-3/4
6"	A(L)IMD, A(L)IXA, A(L)IXB, A(L)IXC,	-(W)VI30-24	-(W)VO30-24	24	22-1/2	12-3/4	3-7/16	24-3/4	13-5/16
	A(L)IXD	-(W)VI30-36	-(W)VO30-36	36	34-5/8	18-3/4	5	36-7/8	19-5/8
	A(L) IMC7 ,	-(W)VI30-12	-(W)VO30-12	12	11-7/8	7-11/16	2-1/16	14-1/8	8-1/16
7"	A(L)IXC7,	-(W)VI30-24	-(W)VO30-24	24	22-1/2	13	3-1/2	24-3/4	13-5/8
	A(L)IXD7	-(W)VI30-36	-(W)VO30-36	36	34-5/8	19	5-1/8	36-7/8	19-7/8

(L) = Ladder, (S) for Solid Bottom Trough, () Blank for Ventilated Trough or (4) for 4" Rung Spacing on 6" - 36" wide Ventilated Trough

(W) = Insert Width (in) (6, 9, 12, 18, 24, 30, or 36)

VERTICAL CABLE SUPPORT ELBOW LAYOUT DIMENSIONS (Except 16 & 18)



Sample Catalog Number				
Prefix Fitting				
ALIJC	-12VS-24			

Tray Height	Select Tray Prefix	Vertical Support Elbow 90°	Rad (in)	R (in)	A (in)	B/C (in)	L (in)
	A(L) IJA , A(L) IJB ,	-(W)VS-12	12	11-7/8	14-1/8	14-1/8	22-3/16
4.5"	A(L) IJC , A(L) IJD , A(L) IYA , A(L) IYB ,	-(W)VS-24	24	22-1/2	24-3/4	24-3/4	38-7/8
	A(L)IYC	-(W)VS-36	36	34-5/8	36-3/4	36-3/4	57-3/4
	A(L)IJC5,	-(W)VS-12	12	11-7/8	14-3/8	14-3/8	22-9/16
5"	A(L)IYB5,	-(W)VS-24	24	22-1/2	25	25	39-9/32
	A(L)IYC5	-(W)VS-36	36	34-5/8	37-1/8	37-1/8	58-5/16
	A(L)IMB, A(L)IMC,	-(W)VS-12	12	11-7/8	14-7/8	14-7/8	23-3/8
6"	A(L)IMD, A(L)IXA, A(L)IXB, A(L)IXC,	-(W)VS-24	24	22-1/2	25-1/2	25-1/2	40-1/16
	A(L)IXD	-(W)VS-36	36	34-5/8	37-1/2	37-1/2	58-15/16
	A(L) IMC7 ,	-(W)VS-12	12	11-7/8	15-3/8	15-3/8	24-5/32
7"	A(L)IXC7,	-(W)VS-24	24	22-1/2	26	26	40-7/8
	A(L)IXD7	-(W)VS-36	36	34-5/8	38	38	59-11/16

(L) = Ladder, (S) for Solid Bottom Trough, () Blank for Ventilated Trough or (4) for 4" Rung Spacing on 6" - 36" wide Ventilated Trough

(W) = Insert Width (in) (6, 9, 12, 18, 24, 30, or 36).

VERTICAL TEE LAYOUT DIMENSIONS (Except 16 & 18)





Sample Catalog Number				
Prefix Fitting				
ALIJC	-12VT-24			

Sample Catalog Number					
Prefix Fitting					
ALIJC	-12VTU-24				

Tray Height	Select Tray Prefix	Vertical Tee Down	Vertical Tee Up	Rad (in)	R (in)	A (in)	B (in)	C (in)	D (in)
	A(L) IJA , A(L) IJB ,	-(W)VT-12	-(W)VTU-12	12	11-7/8	14-1/8	28-1/4	14-1/8	16-3/8
4.5"	A(L) IJC , A(L) IJD , A(L) IYA , A(L) IYB ,	-(W)VT-24	-(W)VTU-24	24	22-1/2	24-3/4	49-1/2	24-3/4	27
	A(L)IYC	-(W)VT-36	-(W)VTU-36	36	34-5/8	36-7/8	73-3/4	36-7/8	39-1/8
	A(L)IJC5,	-(W)VT-12	-(W)VTU-12	12	11-7/8	14-3/8	28-3/4	14-3/8	16-7/8
5"	A(L)IYB5,	-(W)VT-24	-(W)VTU-24	24	22-1/2	25	50	25	27-1/2
	A(L)IYC5	-(W)VT-36	-(W)VTU-36	36	34-5/8	37-1/8	74-1/4	37-1/8	39-5/8
	A(L)IMB, A(L)IMC,	-(W)VT-12	-(W)VTU-12	12	11-7/8	14-7/8	29-3/4	14-7/8	17-7/8
6"	A(L)IMD, A(L)IXA, A(L)IXB, A(L)IXC,	-(W)VT-24	-(W)VTU-24	24	22-1/2	25-1/2	51	25-1/2	28-1/2
	A(L)IXD	-(W)VT-36	-(W)VTU-36	36	34-5/8	37-5/8	75-1/4	37-5/8	40-5/8
	A(L) IMC7 ,	-(W)VT-12	-(W)VTU-12	12	11-7/8	15-3/8	30-3/4	15-3/8	18-7/8
7"	A(L)IXC7,	-(W)VT-24	-(W)VTU-24	24	22-1/2	26	52	26	29-1/2
	A(L)IXD7	-(W)VT-36	-(W)VTU-36	36	34-5/8	38-1/8	76-1/4	38-1/8	41-5/8

(L) = Ladder, (S) for Solid Bottom Trough, () Blank for Ventilated Trough or (4) for 4" Rung Spacing on 6" - 36" wide Ventilated Trough (W) = Insert Width (in) (6, 9, 12, 18, 24, 30, or 36).

FITTING LAYOUT DIMENSIONS

mphusky



Fitting

-36R24

Prefix

ALIJC



REDUCER LAYOUT DIMENSIONS (Except 16 & 18)

Sample Catalog Number					
Prefix	Fitting				
ALIJC	-36RL24				
ALLIOC	-5011124				



Sample Catalog Number					
Prefix	Fitting				
ALIJC	-36RR24				

Width (W)	Width (W1)	Select Tray Prefix	Reducer Straight	Reducer Left Hand	Reducer Right Hand	A/B (in)	C (in)
9"	6"		-9R6	-9RL6	-9RR6	1-1/2	3
12"	6''		-12R6	-12RL6	-12RR6	3	6
12"	9"		-12R9	-12RL9	-12RR9	1-1/2	3
18"	6''	A(L)IJA	-18R6	-18RL6	-18RR6	6	12
18"	9"	A(L) IJB A(L) IJC	-18R9	-18RL9	-18RR9	4-1/2	9
18"	12"	A(L) IJD	-18R12	-18RL12	-18RR12	3	6
24''	6''	A(L) IYA A(L) IYB	-24R6	-24RL6	-24RR6	9	18
24''	9"	A(L)IYB A(L)IYC	-24R9	-24RL9	-24RR9	7-1/2	15
24''	12"	A(L)IJC5	-24R12	-24RL12	-24RR12	6	12
24''	18''	A(L) IYB5 A(L) IYC5	-24R18	-24RL18	-24RR18	3	6
30"	6''		-30R6	-30RL6	-30RR6	12	24
30"	9"	A(L) IMB A(L) IMC	-30R9	-30RL9	-30RR9	10-1/2	21
30"	12"	A(L) IMD	-30R12	-30RL12	-30RR12	9	18
30"	18"	A(L)IXA	-30R18	-30RL18	-30RR18	6	12
30"	24''	A(L) IXB A(L) IXC	-30R24	-30RL24	-30RR24	3	6
36"	6"	A(L) IXD	-36R6	-36RL6	-36RR6	15	30
36"	9"	A(L) IMC7 A(L) IXC7	-36R9	-36RL9	-36RR9	13-1/2	27
36"	12"	A(L)IXC7 A(L)IXD7	-36R12	-36RL12	-36RR12	12	24
36"	18"		-36R18	-36RL18	-36RR18	9	18
36"	24''		-36R24	-36RL24	-36RR24	6	12
36"	30"		-36R30	-36RL30	-36RR30	3	6

"L" = 12" Long

(L) = Ladder, (S) for Solid Bottom Trough, () Blank for Ventilated Trough or (4) for 4" Rung Spacing on 6" - 36" wide Ventilated Trough

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FITTING LAYOUT DIMENSIONS



I-BEAM FITTING LAYOUT DIMENSIONS (For I6 & I8)

Manufactured & Tested In Accordance With NEMA VE-1

Classified By UL As An Equipment Grounding Conductor

CSA Classified Trays Available

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mphusky

I6 & I8 HORIZONTAL 90 DEGREE FITTING LAYOUT DIMENSIONS



Sample Catalog Number				
Prefix	Fitting			
ALI6	-12H90-24			

Width (W)	Select Tray Prefix	Horizontal 90°	Rad (in)	A (in)	B (in)	C (in)	L (in)	T (in)
		-6H90-12	12	20	20	15	33-9/16	5
6"		-6H90-24	24	32	32	27	52-3/4	5
		-6H90-36	36	44	44	39	71-1/4	5
		-9H90-12	12	21-1/2	21-1/2	16-1/2	35-7/8	5
9"		-9H90-24	24	33-1/2	33-1/2	28-1/2	54-3/4	5
		-9H90-36	36	45-1/2	45-1/2	40-1/2	73-5/8	5
		-12H90-12	12	23	23	18	38-1/4	5
12"		-12H90-24	24	35	35	30	57-1/8	5
		-12H90-36	36	47	47	42	76	5
	A(L) I6	-18H90-12	12	26	26	21	43	5
18''		-18H90-24	24	38	38	33	61-13/16	5
	A(L) I8	-18H90-36	36	50	50	45	80-11/16	5
		-24H90-12	12	29	29	24	47-11/16	5
24''		-24H90-24	24	41	41	36	66-9/16	5
		-24H90-36	36	53	53	48	85-7/16	5
		-30H90-12	12	32	32	27	52-7/16	5
30"		-30H90-24	24	44	44	39	71-1/4	5
	_	-30H90-36	36	56	56	51	90-1/8	5
		-36H90-12	12	35	35	30	57-1/8	5
36"		-36H90-24	24	47	47	42	76	5
		-36H90-36	36	59	59	54	94-13/16	5

(L) = Ladder or (4) for Rung Spacing on 6" - 36" wide Ventilated Trough

16 & 18 HORIZONTAL 60 DEGREE FITTING LAYOUT DIMENSIONS

Sample Catalog Number				
Prefix	Fitting			
ALI6	-12H60-24			



Width (W)	Select Tray Prefix	Horizontal 60°	Rad (in)	A (in)	B (in)	C (in)	L (in)	T (in)
		-6H60-12	12	11-27/32	20-1/2	15	25-11/16	5
6"		-6H60-24	24	17-27/32	30-7/8	27	38-9/32	5
		-6H60-36	36	23-27/32	41-9/32	39	50-27/32	5
		-9H60-12	12	12-19/32	21-25/32	16-1/2	27-9/32	5
9"		-9H60-24	24	18-19/32	32-3/16	28-1/2	39-27/32	5
		-9H60-36	36	24-19/32	42-9/16	40-1/2	52-13/32	5
		-12H60-12	12	13-11/32	23-3/32	18	28-27/32	5
12"		-12H60-24	24	19-11/32	33-15/32	30	41-13/32	5
		-12H60-36	36	25-11/32	43-7/8	42	54	5
	A(L) I6	-18H60-12	12	14-27/32	25-11/16	21	32	5
18"		-18H60-24	24	20-27/32	36-3/32	33	44-9/16	5
	A(L) I8	-18H60-36	36	26-27/32	46-15/32	45	57-1/8	5
		-24H60-12	12	16-11/32	28-9/32	24	35-1/8	5
24''		-24H60-24	24	22-11/32	38-11/16	36	47-11/16	5
		-24H60-36	36	28-11/32	49-1/16	48	60-1/4	5
		-30H60-12	12	17-27/32	30-7/8	27	38-9/32	5
30"		-30H60-24	24	23-27/32	41-9/32	39	50-27/32	5
	_	-30H60-36	36	29-27/32	51-21/32	51	63-13/32	5
		-36H60-12	12	19-11/32	33-15/32	30	41-13/32	5
36"		-36H60-24	24	25-11/32	43-7/8	42	54	5
		-36H60-36	36	31-11/32	54-1/4	54	66-9/16	5

(L) = Ladder or (4) for Rung Spacing on 6" - 36" wide Ventilated Trough

16 & 18 HORIZONTAL 45 DEGREE FITTING LAYOUT DIMENSIONS



Sample Catalog Number				
Prefix	Fitting			
ALI6	-12H45-24			

Width (W)	Select Tray Prefix	Horizontal 45°	Rad (in)	A (in)	B (in)	C (in)	L (in)	T (in)
		6H45-12	12	7-15/16	19-5/32	15	21-25/32	5
6"		-6H45-24	24	11-7/16	27-5/8	27	31-7/32	5
		-6H45-36	36	14-31/32	36-1/8	39	40-5/8	5
		-9H45-12	12	8-3/8	20-3/16	16-1/2	22-31/32	5
9"		-9H45-24	24	11-7/8	28-11/16	28-1/2	32-3/8	5
		-9H45-36	36	15-13/32	37-3/16	40-1/2	41-13/16	5
		-12H45-12	12	8-13/16	21-1/4	18	24-1/8	5
12"		-12H45-24	24	12-5/16	29-3/4	30	33-9/16	5
		-12H45-36	36	15-27/32	38-7/32	42	43	5
	A(L) I6	-18H45-12	12	9-11/16	23-3/8	21	26-1/2	5
18''		-18H45-24	24	13-3/16	31-7/8	33	35-29/32	5
	A(L) I8	-18H45-36	36	16-23/32	40-11/32	45	45-11/32	5
		-24H45-12	12	10-9/16	25-1/2	24	28-27/32	5
24''		-24H45-24	24	14-3/32	34	36	38-9/32	5
		-24H45-36	36	17-19/32	42-15/32	48	47-11/16	5
		-30H45-12	12	11-7/16	27-5/8	27	31-7/32	5
30"		-30H45-24	24	14-31/32	36-1/8	39	40-5/8	5
		-30H45-36	36	18-15/32	44-19/32	51	50-1/16	5
		-36H45-12	12	12-5/16	29-3/4	30	33-9/16	5
36"		-36H45-24	24	15-27/32	38-7/32	42	43	5
		-36H45-36	36	19-11/32	46-23/32	54	52-13/32	5

(L) = Ladder or (4) for Rung Spacing on 6" - 36" wide Ventilated Trough

16 & 18 HORIZONTAL 30 DEGREE FITTING LAYOUT DIMENSIONS

Sample Catalog Number				
Prefix	Fitting			
ALI6	-12H30-24			



Width (W)	Select Tray Prefix	Horizontal 30°	Rad (in)	A (in)	B (in)	C (in)	L (in)	T (in)
		-6H30-12	12	4-1/2	16-27/32	15	17-27/32	5
6"		-6H30-24	24	6-1/8	22-27/32	27	24-1/8	5
		-6H30-36	36	7-23/32	28-27/32	39	30-7/16	5
		-9H30-12	12	4-23/32	19-19/32	16-1/2	18-5/8	5
9"		-9H30-24	24	6-5/16	23-19/32	28-1/2	24-15/16	5
		-9H30-36	36	7-15/16	29-19/32	40-1/2	31-7/32	5
		-12H30-12	12	4-29/32	18-11/32	18	19-7/16	5
12"		-12H30-24	24	6-17/32	24-11/32	30	25-11/16	5
		-12H30-36	36	8-1/8	30-11/32	42	32	5
	A(L) I6	-18H30-12	12	5-5/16	19-27/32	21	21	5
18"		-18H30-24	24	6-29/32	25-27/32	33	27-9/32	5
	A(L) I8	-18H30-36	36	8-17/32	31-27/32	45	33-9/16	5
		-24H30-12	12	5-23/32	21-11/32	24	22-9/16	5
24''		-24H30-24	24	7-5/16	27-11/32	36	28-27/32	5
		-24H30-36	36	8-15/16	33-27/32	48	35-1/8	5
		-30H30-12	12	6-1/8	22-27/32	27	24-1/8	5
30"		-30H30-24	24	7-23/32	28-27/32	39	30-7/16	5
		-30H30-36	36	9-11/32	34-27/32	51	36-11/16	5
		-36H30-12	12	6-17/32	24-11/32	30	25-23/32	5
36"		-36H30-24	24	8-1/8	30-11/32	42	32	5
		-36H30-36	36	9-3/4	36-11/32	54	38-9/32	5

(L) = Ladder or (4) for Rung Spacing on 6" - 36" wide Ventilated Trough

Double "B" for Length of back-to-back fittings or "A" for Offset Change of back-to-back fittings.

16 & 18 FITTING LAYOUT DIM

FITTING LAYOUT DIMENSIONS

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I6 & I8 HORIZONTAL TEE FITTING LAYOUT DIMENSIONS



Sample Catalog Number					
Prefix Fitting					
ALI6	-12T-24				

Width (W)	Select Tray Prefix	Horizontal Tee	Rad (in)	A (in)	B (in)	C (in)	E (in)	L (in)	T (in)
		-6T-12	12	15	40	15	23	33-9/16	5
6"		-6T-24	24	27	64	27	35	52-13/32	5
		-6T-36	36	39	88	39	47	71-1/4	5
		-9T-12	12	16-1/2	43	16-1/2	26	35-29/32	5
9"		-9T-24	24	28-1/2	67	28-1/2	38	54-3/4	5
		-9T-36	36	40-1/2	91	40-1/2	50	73-5/8	5
		-12T-12	12	18	46	18	29	38-9/32	5
12"		-12T-24	24	30	70	30	41	57-1/8	5
		-12T-36	36	42	94	42	53	75-31/32	5
	A(L) I6	-18T-12	12	21	52	21	35	43	5
18"		-18T-24	24	33	76	33	47	61-27/32	5
	A(L) I8	-18T-36	36	45	100	45	59	80-11/16	5
		-24T-12	12	24	58	24	41	47-11/16	5
24''		-24T-24	24	36	82	36	53	66-9/16	5
		-24T-36	36	48	106	48	65	85-13/32	5
		-30T-12	12	27	64	27	47	52-13/32	5
30"		-30T-24	24	39	88	39	59	71-1/4	5
		-30T-36	36	51	112	51	71	90-1/8	5
		-36T-12	12	30	70	30	53	57-1/8	5
36"		-36T-24	24	42	94	42	65	75-31/32	5
		-36T-36	36	54	118	54	77	94-13/16	5

(L) = Ladder or (4) for Rung Spacing on 6" - 36" wide Ventilated Trough

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-"W1"►

16 & 18 HORIZONTAL REDUCING TEE FITTING LAYOUT DIMENSIONS

Sample Cata	log Number	└────────────────────────────────────
Prefix	Fitting	
ALI6	-12T9-24	······································
		"D" "E"
		······································

Width (W)	Width (W1)	Select Tray Prefix	Horizontal Reducing Tee	Rad (in)	A (in)	B (in)	D (in)	E (in)	T (in)
			-9T6-12	12	15	40	16-1/2	26	5
9"	6''		-9T6-24	24	27	64	28-1/2	38	5
			-9T6-36	36	39	88	40-1/2	50	5
			-12T6-12	12	15	40	18	29	5
12"	6''		-12T6-24	24	27	64	30	41	5
			-12T6-36	36	39	88	42	53	5
			-12T9-12	12	16-1/2	43	18	29	5
12"	9"		-12T9-24	24	28-1/2	67	30	41	5
			-12T9-36	36	40-1/2	91	42	53	5
		A(L)I6	-18T6-12	12	15	40	21	35	5
18"	6"		-18T6-24	24	27	64	33	47	5
		A(L) I8	-18T6-36	36	39	88	45	59	5
			-18T9-12	12	16-1/2	43	21	35	5
18"	9"		-18T9-24	24	28-1/2	67	33	47	5
			-18T9-36	36	40-1/2	91	45	59	5
			-18T12-12	12	18	46	21	35	5
18"	12"	12"	-18T12-24	24	30	70	33	47	5
			-18T12-36	36	42	94	45	59	5
			-24T6-12	12	15	40	24	41	5
24''	6"		-24T6-24	24	27	64	36	53	5
			-24T6-36	36	39	88	48	65	5

FITTING LAYOUT DIMENSIONS

mphusky

I6 & I8 HORIZONTAL REDUCING TEE FITTING LAYOUT DIMENSIONS



Sample Catalog Number					
Prefix Fitting					
ALI6	-24T9-24				

Width (W)	Width (W1)	Select Tray Prefix	Horizontal Reducing Tee	Rad (in)	A (in)	B (in)	D (in)	E (in)	T (in)
			-24T9-12	12	16-1/2	43	24	41	5
24''	9"		-24T9-24	24	28-1/2	67	36	53	5
			-24T9-36	36	40-1/2	91	48	65	5
			-24T12-12	12	18	46	24	41	5
24''	12"		-24T12-24	24	30	70	36	53	5
			-24T12-36	36	42	94	48	65	5
			-24T18-12	12	21	52	24	41	5
24''	18"		-24T18-24	24	33	76	36	53	5
			-24T18-36	36	45	100	48	65	5
		A(L) I6	-30T6-12	12	15	40	27	47	5
30"	6''		-30T6-24	24	27	64	39	59	5
		A(L) I8	-30T6-36	36	39	88	51	71	5
			-30T9-12	12	16-1/2	43	27	47	5
30"	9"		-30T9-24	24	28-1/2	67	39	59	5
			-30T9-36	36	40-1/2	91	51	71	5
			-30T12-12	12	18	46	27	47	5
30"	12"		-30T12-24	24	30	70	39	59	5
			-30T12-36	36	42	94	51	71	5
			-30T18-12	12	21	52	27	47	5
30"	18"		-30T18-24	24	33	76	39	59	5
			-30T18-36	36	45	100	51	71	5

-"W1"►

16 & 18 HORIZONTAL REDUCING TEE FITTING LAYOUT DIMENSIONS

Sample Cata	log Number	"B" → "B" → "A" → "A
Prefix	Fitting	
ALI6	-36Т6-12] "₩"
		"D" "E"

Width (W)	Width (W1)	Select Tray Prefix	Horizontal Reducing Tee	Rad (in)	A (in)	B (in)	D (in)	E (in)	T (in)
			-30T24-12	12	24	58	27	47	5
30"	24''		-30T24-24	24	36	82	39	59	5
			-30T24-36	36	48	106	51	71	5
			-36T6-12	12	15	40	30	53	5
36"	6''		-36T6-24	24	27	64	42	65	5
			-36T6-36	36	39	88	54	77	5
			-36T9-12	12	16-1/2	43	30	53	5
36"	9"		-36T9-24	24	28-1/2	67	42	65	5
			-36T9-36	36	40-1/2	91	54	77	5
		A(L) I6	-36T12-12	12	18	46	30	53	5
36"	12"		-36T12-24	24	30	70	42	65	5
		A(L) I8	-36T12-36	36	42	94	54	77	5
			-36T18-12	12	21	52	30	53	5
36"	18"		-36T18-24	24	33	76	42	65	5
			-36T18-36	36	45	100	54	77	5
			-36T24-12	12	24	58	30	53	5
36"	24''		-36T24-24	24	36	82	42	65	5
			-36T24-36	36	48	106	54	77	5
			-36T30-12	12	27	64	30	53	5
36"	30"		-36T30-24	24	39	88	42	65	5
			-36T30-36	36	51	112	54	77	5

16 & 18 HORIZONTAL ENLARGING TEE FITTING LAYOUT DIMENSIONS



Sample Catalog Number				
Prefix Fitting				
ALI6	-6T36-24			

Width (W)	Width (W1)	Select Tray Prefix	Horizontal Enlarging Tee	Rad (in)	A (in)	B (in)	D (in)	E (in)	T (in)
			-6T9-12	12	16-1/2	43	15	23	5
6"	9"		-6T9-24	24	28-1/2	67	27	35	5
			-6T9-36	36	40-1/2	91	39	47	5
			-6T12-12	12	18	46	15	23	5
6"	12"		-6T12-24	24	30	70	27	35	5
			-6T12-36	36	42	94	39	47	5
			-6T18-12	12	21	52	15	23	5
6"	18"		-6T18-24	24	33	76	27	35	5
			-6T18-36	36	45	100	39	47	5
		A(L) I6	-6T24-12	12	24	58	15	23	5
6"	24''		-6T24-24	24	36	82	27	35	5
		A(L) I8	-6T24-36	36	48	106	39	47	5
			-6T30-12	12	27	64	15	23	5
6"	30"		-6T30-24	24	39	88	27	35	5
			-6T30-36	36	51	112	39	47	5
			-6T36-12	12	30	70	15	23	5
6"	36"		-6T36-24	24	42	94	27	35	5
			-6T36-36	36	54	118	39	47	5
			-9T12-12	12	18	46	16-1/2	26	5
9"	12"		-9T12-24	24	30	70	28-1/2	38	5
			-9T12-36	36	42	94	40-1/2	50	5

16 & 18 HORIZONTAL ENLARGING TEE FITTING LAYOUT DIMENSIONS

Sample Cata	log Number	◄ ────"B"───►
Prefix	Fitting	
ALI6	-12T36-24	│ "W" – ↓ ↓
		 "D" "E" "R" "T" "T"

Width (W)	Width (W1)	Select Tray Prefix	Horizontal Enlarging Tee	Rad (in)	A (in)	B (in)	D (in)	E (in)	T (in)
			-9T18-12	12	21	52	16-1/2	26	5
9"	18"		-9T18-24	24	33	76	28-1/2	38	5
			-9T18-36	36	45	100	40-1/2	50	5
			-9T24-12	12	24	58	16-1/2	26	5
9"	24''		-9T24-24	24	36	82	28-1/2	38	5
			-9T24-36	36	48	106	40-1/2	50	5
			-9T30-12	12	27	64	16-1/2	26	5
9"	30"		-9T30-24	24	39	88	28-1/2	38	5
			-9T30-36	36	51	112	40-1/2	50	5
		A(L) I6	-9T36-12	12	30	70	16-1/2	26	5
9"	36"		-9T36-24	24	42	94	28-1/2	38	5
		A(L) I8	-9T36-36	36	54	118	40-1/2	50	5
			-12T18-12	12	21	52	18	29	5
12"	18"		-12T18-24	24	33	76	30	41	5
			-12T18-36	36	45	100	42	53	5
			-12T24-12	12	24	58	18	29	5
12"	24''		-12T24-24	24	36	82	30	41	5
			-12T24-36	36	48	106	42	53	5
			-12T30-12	12	27	64	18	29	5
12"	30"		-12T30-24	24	39	88	30	41	5
			-12T30-36	36	51	112	42	53	5

16 & 18 HORIZONTAL ENLARGING TEE FITTING LAYOUT DIMENSIONS



Sample Catalog Number				
Prefix	Fitting			
ALI6	-18T30-36			

Width (W)	Width (W1)	Select Tray Prefix	Horizontal Enlarging Tee	Rad (in)	A (in)	B (in)	D (in)	E (in)	T (in)
			-12T36-12	12	30	70	18	29	5
12"	36"		-12T36-24	24	42	94	30	41	5
			-12T36-36	36	54	118	42	53	5
			-18T24-12	12	24	58	21	35	5
18''	24''		-18T24-24	24	36	82	33	47	5
			-18T24-36	36	48	106	45	59	5
			-18T30-12	12	27	64	21	35	5
18''	30"		-18T30-24	24	39	88	33	47	5
			-18T30-36	36	51	112	45	59	5
		A(L) I6	-18T36-12	12	30	70	21	35	5
18"	36"		-18T36-24	24	42	94	33	47	5
		A(L) I8	-18T36-36	36	54	118	45	59	5
			-24T30-12	12	27	64	24	41	5
24''	30"		-24T30-24	24	39	88	36	53	5
			-24T30-36	36	51	112	48	65	5
			-24T36-12	12	30	70	24	41	5
24''	36"		-24T36-24	24	42	94	36	53	5
			-24T36-36	36	54	118	48	65	5
			-30T36-12	12	30	70	27	47	5
30"	36"		-30T36-24	24	42	94	39	59	5
			-30T36-36	36	54	118	51	71	5

I6 & I8 HORIZONTAL CROSS FITTING LAYOUT DIMENSIONS

Sample Catalog Number				
Prefix	Fitting			
ALI6	-12X-24			



Width (W)	Select Tray Prefix	Horizontal Cross	Rad (in)	A (in)	B/E (in)	C (in)	L (in)	T (in)
		-6X-12	12	15	40	15	33-9/16	5
6"		-6X-24	24	27	64	27	52-3/8	5
		-6X-36	36	39	88	39	71-1/4	5
		-9X-12	12	16-1/2	43	16-1/2	35-15/16	5
9"		-9X-24	24	28-1/2	67	28-1/2	54-3/4	5
		-9X-36	36	40-1/2	91	40-1/2	73-5/8	5
		-12X-12	12	18	46	18	38-1/4	5
12"		-12X-24	24	30	70	30	57-1/8	5
		-12X-36	36	42	94	42	76	5
	A(L) I6	-18X-12	12	21	52	21	43	5
18"		-18X-24	24	33	76	33	61-13/16	5
	A(L) I8	-18X-36	36	45	100	45	80-11/16	5
		-24X-12	12	24	58	24	47-11/16	5
24''		-24X-24	24	36	82	36	69-9/16	5
		-24X-36	36	48	106	48	85-7/16	5
		-30X-12	12	27	64	27	52-7/16	5
30"		-30X-24	24	39	88	39	71-1/4	5
		-30X-36	36	51	112	51	90-1/8	5
		-36X-12	12	30	70	30	57-1/8	5
36"		-36X-24	24	42	94	42	76	5
		-36X-36	36	54	118	54	94-13/16	5

16 & 18 HORIZONTAL REDUCING CROSS FITTING LAYOUT DIMENSIONS



Sample Catalog Number				
Prefix	Fitting			
ALI6	-9X6-24			

Width (W)	Width (W1)	Select Tray Prefix	Horizontal Reducing Cross	Rad (in)	A (in)	B (in)	D (in)	E (in)	T (in)
			-9X6-12	12	15	40	16-1/2	43	5
9''	6''		-9X6-24	24	27	64	28-1/2	67	5
			-9X6-36	36	39	88	40-1/2	91	5
			-12X6-12	12	15	40	18	46	5
12"	6''		-12X6-24	24	27	64	30	70	5
			-12X6-36	36	39	88	42	94	5
			-12X9-12	12	16-1/2	43	18	46	5
12"	9"		-12X9-24	24	28-1/2	67	30	70	5
		A(L) I6	-12X9-36	36	40-1/2	91	42	94	5
			-18X6-12	12	15	40	21	52	5
18"	6''		-18X6-24	24	27	64	33	76	5
		A(L) I8	-18X6-36	36	39	88	45	100	5
			-18X9-12	12	16-1/2	43	21	52	5
18"	9"		-18X9-24	24	28-1/2	67	33	76	5
			-18X9-36	36	40-1/2	91	45	100	5
			-18X12-12	12	18	46	21	52	5
18"	12"		-18X12-24	24	30	70	33	76	5
			-18X12-36	36	42	94	45	100	5
			-24X6-12	12	15	40	24	58	5
24''	6''		-24X6-24	24	27	64	36	82	5
			-24X6-36	36	39	88	48	106	5

16 & 18 HORIZONTAL REDUCING CROSS FITTING LAYOUT DIMENSIONS

Sample Catalog Number				
Prefix	Fitting			
ALI6	-24X18-24			



Width (W)	Width (W1)	Select Tray Prefix	Horizontal Reducing Cross	Rad (in)	A (in)	B (in)	D (in)	E (in)	T (in)
			-24X9-12	12	16-1/2	43	24	58	5
24''	9"		-24X9-24	24	28-1/2	67	36	82	5
			-24X9-36	36	40-1/2	91	48	106	5
			-24X12-12	12	18	46	24	58	5
24''	12"		-24X12-24	24	30	70	36	82	5
			-24X12-36	36	42	94	48	106	5
			-24X18-12	12	21	52	24	58	5
24''	18"		-24X18-24	24	33	76	36	82	5
		A(L) I6	-24X18-36	36	45	100	48	106	5
			-30X6-12	12	15	40	27	64	5
30"	6"		-30X6-24	24	27	64	39	88	5
		A(L) I8	-30X6-36	36	39	88	51	112	5
			-30X9-12	12	16-1/2	43	27	64	5
30"	9"		-30X9-24	24	28-1/2	67	39	88	5
			-30X9-36	36	40-1/2	91	51	112	5
			-30X12-12	12	18	46	27	64	5
30"	12"		-30X12-24	24	30	70	39	88	5
			-30X12-36	36	42	94	51	112	5
			-30X18-12	12	21	52	27	64	5
30"	18"		-30X18-24	24	33	76	39	88	5
			-30X18-36	36	45	100	51	112	5

16 & 18 HORIZONTAL REDUCING CROSS FITTING LAYOUT DIMENSIONS



Sample Catalog Number				
Prefix	Fitting			
ALI6	-36X24-36			

Width (W)	Width (W1)	Select Tray Prefix	Horizontal Reducing Cross	Rad (in)	A (in)	B (in)	D (in)	E (in)	T (in)
			-30X24-12	12	24	58	27	64	5
30"	24''		-30X24-24	24	36	82	39	88	5
			-30X24-36	36	48	106	51	112	5
			-36X6-12	12	15	40	30	70	5
36"	6''		-36X6-24	24	27	64	42	94	5
			-36X6-36	36	39	88	54	118	5
			-36X9-12	12	16-1/2	43	30	70	5
36"	9"		-36X9-24	24	28-1/2	67	42	94	5
		A(L) I6	-36X9-36	36	40-1/2	91	54	118	5
			-36X12-12	12	18	46	30	70	5
36"	12"		-36X12-24	24	30	70	42	94	5
		A(L) I8	-36X12-36	36	42	94	54	118	5
			-36X18-12	12	21	52	30	70	5
36"	18"		-36X18-24	24	33	76	42	94	5
			-36X18-36	36	45	100	54	118	5
			-36X24-12	12	24	58	30	70	5
36"	24''		-36X24-24	24	36	82	42	94	5
		-	-36X24-36	36	48	106	54	118	5
			-36X30-12	12	27	64	30	70	5
36"	30"		-36X30-24	24	39	88	42	94	5
			-36X30-36	36	51	112	54	118	5

16 & 18 HORIZONTAL ENLARGING CROSS FITTING LAYOUT DIMENSIONS

Sample Catalog Number					
Prefix	Fitting				
ALI6	-6X9-24				

◄ ────"B	·"
"T" → →"A" →	←"A"—►< "T"
¥ ↓ ↓ ↓ ↓ ↓ ↓	·····································

Width (W)	Width (W1)	Select Tray Prefix	Horizontal Enlarging Cross	Rad (in)	A (in)	B (in)	D (in)	E (in)	T (in)
			-6X9-12	12	16-1/2	43	15	40	5
6"	9"		-6X9-24	24	28-1/2	67	27	64	5
			-6X9-36	36	40-1/2	91	39	88	5
			-6X12-12	12	18	46	15	40	5
6"	12"		-6X12-24	24	30	70	27	64	5
			-6X12-36	36	42	94	39	88	5
			-6X18-12	12	21	52	15	40	5
6"	18"		-6X18-24	24	33	76	27	64	5
		A(L) I6	-6X18-36	36	45	100	39	88	5
			-6X24-12	12	24	58	15	40	5
6"	24''		-6X24-24	24	36	82	27	64	5
		A(L)I8	-6X24-36	36	48	106	39	88	5
			-6X30-12	12	27	64	15	40	5
6"	30"		-6X30-24	24	39	88	27	64	5
			-6X30-36	36	51	112	39	88	5
			-6X36-12	12	30	70	15	40	5
6"	36"		-6X36-24	24	42	94	27	64	5
			-6X36-36	36	54	118	39	88	5
			-9X12-12	12	18	46	16-1/2	43	5
9"	12"		-9X12-24	24	30	70	28-1/2	67	5
			-9X12-36	36	42	94	40-1/2	91	5

(L) = Ladder or (4) for Rung Spacing on 6" - 36" wide Ventilated Trough

16 & 18 FITTING LAYOUT DIM

FITTING LAYOUT DIMENSIONS

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16 & 18 HORIZONTAL ENLARGING CROSS FITTING LAYOUT DIMENSIONS



Sample Catalog Number				
Prefix	Fitting			
ALI6	-9X18-24			

Width (W)	Width (W1)	Select Tray Prefix	Horizontal Enlarging Cross	Rad (in)	A (in)	B (in)	D (in)	E (in)	T (in)		
			-9X18-12	12	21	52	16-1/2	43	5		
9"	18"		-9X18-24	24	33	76	28-1/2	67	5		
			-9X18-36	36	45	100	40-1/2	91	5		
			-9X24-12	12	24	58	16-1/2	43	5		
9"	24''		-9X24-24	24	36	82	28-1/2	67	5		
			-9X24-36	36	48	106	40-1/2	91	5		
			-9X30-12	12	27	64	16-1/2	43	5		
9"	30"		-9X30-24	24	39	88	28-1/2	67	5		
			-9X30-36	36	51	112	40-1/2	91	5		
				A(L) I6	-9X36-12	12	30	70	16-1/2	43	5
9"	36"		-9X36-24	24	42	94	28-1/2	67	5		
		A(L) I8	-9X36-36	36	54	118	40-1/2	91	5		
			-12X18-12	12	21	52	18	46	5		
12"	18"		-12X18-24	24	33	76	30	70	5		
			-12X18-36	36	45	100	42	94	5		
			-12X24-12	12	24	58	18	46	5		
12"	24"		-12X24-24	24	36	82	30	70	5		
			-12X24-36	36	48	106	42	94	5		
			-12X30-12	12	27	64	18	46	5		
12"	30"		-12X30-24	24	39	88	30	70	5		
			-12X30-36	36	51	112	42	94	5		

16 & 18 HORIZONTAL ENLARGING CROSS FITTING LAYOUT DIMENSIONS



Sample Catalog Number					
Prefix	Fitting				
ALI6	-18X24-36				

Width (W)	Width (W1)	Select Tray Prefix	Horizontal Enlarging Cross	Rad (in)	A (in)	B (in)	D (in)	E (in)	T (in)
			-12X36-12	12	30	70	18	46	5
12"	36"		-12X36-24	24	42	94	30	70	5
			-12X36-36	36	54	118	42	94	5
			-18X24-12	12	24	58	21	52	5
18"	24''		-18X24-24	24	36	82	33	76	5
			-18X24-36	36	48	106	45	100	5
			-18X30-12	12	27	64	21	52	5
18"	30"		-18X30-24	24	39	88	33	76	5
			-18X30-36	36	51	112	45	100	5
	1	A(L) I6	-18X36-12	12	30	70	21	52	5
18"	36"		-18X36-24	24	42	94	33	76	5
		A(L) I8	-18X36-36	36	54	118	45	100	5
			-24X30-12	12	27	64	24	58	5
24''	30"		-24X30-24	24	39	88	36	82	5
			-24X30-36	36	51	112	48	106	5
			-24X36-12	12	30	70	24	58	5
24''	36"		-24X36-24	24	42	94	36	82	5
			-24X36-36	36	54	118	48	106	5
			-30X36-12	12	30	70	27	64	5
30"	36"		-30X36-24	24	42	94	39	88	5
			-30X36-36	36	54	118	51	112	5

FITTING LAYOUT DIMENSIONS

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16 & 18 VERTICAL 90 DEGREE FITTING LAYOUT DIMENSIONS



16 & 18 VERTICAL 60 DEGREE FITTING LAYOUT DIMENSIONS



Sample Cata	Sample Catalog Number					
Prefix	Fitting					
ALI6	-12VI60-24					

Sample Catalog Number					
Prefix	Fitting				
ALI6	-12VO60-24				



VO

71	

Tray Height	Select Tray Prefix	Vertical Inside 60°	Vertical Outside 60°	Rad (in)	R (in)	A (in)	B (in)	C (in)	L (in)	T (in)
		-(W)VI60-12	-(W)VO60-12	12	11-7/8	11-25/32	20-3/8	14-7/8	25-9/16	5
6''	A(L) I6	-(W)VI60-24	-(W)VO60-24	24	22-1/2	17-3/32	29-19/32	25-1/2	36-23/32	5
		-(W)VI60-36	-(W)VO60-36	36	34-5/8	23-5/32	40-3/32	37-5/8	49-13/32	5
		-(W)VI60-12	-(W)VO60-12	12	11-7/8	12-9/16	21-1/4	15-7/8	26-5/8	5
8''	A(L) I8	-(W)VI60-24	-(W)VO60-24	24	22-1/2	17-19/32	30-7/16	26-1/2	37-3/4	5
		-(W)VI60-36	-(W)VO60-36	36	34-5/8	23-21/32	40-15/16	38-5/8	50-7/16	5

(L) = Ladder or (4) for Rung Spacing on 6" - 36" wide Ventilated Trough

(W) = Insert Width (in) (6, 9, 12, 18, 24, 30, or 36)

I6 & I8 VERTICAL 45 DEGREE FITTING LAYOUT DIMENSIONS







Tray Height	Select Tray Prefix	Vertical Inside 45°	Vertical Outside 45°	Rad (in)	R (in)	A (in)	B (in)	C (in)	L (in)	T (in)
		-(W)VI45-12	-(W)VO45-12	12	11-7/8	7-29/32	19-1/16	14-7/8	21-11/16	5
6''	A(L) I6	-(W)VI45-24	-(W)VO45-24	24	22-1/2	11	26-9/16	25-1/2	30-1/32	5
		-(W)VI45-36	-(W)VO45-36	36	34-5/8	14-9/16	35-1/8	37-5/8	39-9/16	5
		-(W)VI45-12	-(W)VO45-12	12	11-7/8	8-3/16	19-3/4	15-7/8	22-15/16	5
8"	A(L) I8	-(W)VI45-24	-(W)VO45-24	24	22-1/2	11-5/16	27-9/32	26-1/2	30-13/16	5
		-(W)VI45-36	-(W)VO45-36	36	34-5/8	14-27/32	35-27/32	38-5/8	40-11/32	5

I6 & I8 VERTICAL 30 DEGREE FITTING LAYOUT DIMENSIONS



(L) = Ladder or (4) for Rung Spacing on 6" - 36" wide Ventilated Trough

(W) = Insert Width (in) (6, 9, 12, 18, 24, 30, or 36)

FITTING LAYOUT DIMENSIONS

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16 & 18 VERTICAL CABLE SUPPORT ELBOW LAYOUT DIMENSIONS



Sample Catalog Number					
Prefix	Fitting				
ALI6	-12VS-24				

Tray Height	Select Tray Prefix	Vertical Support Elbow	Rad (in)	R (in)	A/B (in)	C (in)	L (in)	T (in)
6''	A(L) I6	-(W)VS-12	12	11-7/8	19-7/8	14-7/8	33-3/8	5
		-(W)VS-24	24	22-1/2	30-1/2	25-1/2	50-1/16	5
		-(W)VS-36	36	34-5/8	42-5/8	37-5/8	69-1/8	5
		-(W)VS-12	12	11-7/8	20-7/8	15-7/8	34-15/16	5
8"	A(L) I8	-(W)VS-24	24	22-1/2	31-1/2	26-1/2	51-5/8	5
		-(W)VS-36	36	34-5/8	43-5/8	38-5/8	70-11/16	5

16 & 18 VERTICAL TEES LAYOUT DIMENSIONS

"D"	Sample Cata	alog Number	
"T" - · · · · · · · · · · · · · · · · · ·	Prefix	Fitting	TRAY "T"
	ALI6	-12VT-24	<u></u>
"D" "A" TRAY HEIGHT			TRAY L'C" A "A"D"
	Sample Cata	alog Number	
↓ ↓ L'_ ,, TRAY	Prefix	Fitting	"T" + + + "A" + "A" + + "T"
VT	ALI6	-12VTU-24] VTU

Vertical **Select Tray** Vertical Tee Rad R B C D Τ Tray A Height Prefix Down Tee Up (in) (in) (in) (in) (in) (in) (in) -(W)VT-12 -(W)VTU-12 12 11-7/8 14-7/8 39-3/4 14-7/8 22-7/8 5 6" A(L)**I6** 25-1/2 5 -(W)VT-24 -(W)VTU-24 24 22-1/2 25-1/2 33-1/2 61 5 -(W)VT-36 -(W)VTU-36 36 34-5/8 37-5/8 85-1/4 37-5/8 45-5/8 5 -(W)VTU-12 12 -(W)VT-12 11-7/8 15-7/8 41-3/4 15-7/8 24-7/8 8" 5 A(L)I8-(W)VT-24 -(W)VTU-24 24 22 - 1/226-1/2 63 26-1/2 35-1/2 5 -(W)VT-36 -(W)VTU-36 36 34-5/8 38-5/8 87-1/4 38-5/8 47-5/8

(L) = Ladder or (4) for Rung Spacing on 6" - 36" wide Ventilated Trough

(W) = Insert Width (in) (6, 9, 12, 18, 24, 30, or 36).

I6 & I8 REDUCER LAYOUT DIMENSIONS

Left Hand Reducer

Straight (Concentric) Reducer



Sample Catalog Number		
Prefix	Fitting	
ALI6	-36R24	



Sample Catalog Number			
Prefix	Fitting		
ALI6	-36RL24		

Right Hand Reducer



Sample Catalog Number			
Prefix	Fitting		
ALI6	-36RR24		

16 & 18 FITTING LAYOUT DIM

Width (W)	Width (W1)	Select Tray Prefix	Reducer Straight	Reducer Left Hand	Reducer Right Hand	A/B (in)	C (in)
9"	6''		-9R6	-9RL6	-9RR6	1-1/2	3
12"	6''		-12R6	-12RL6	-12RR6	3	6
12"	9"		-12R9	-12RL9	-12RR9	1-1/2	3
18"	6''		-18R6	-18RL6	-18RR6	6	12
18"	9"		-18R9	-18RL9	-18RR9	4-1/2	9
18"	12"		-18R12	-18RL12	-18RR12	3	6
24''	6''		-24R6	-24RL6	-24RR6	9	18
24''	9"		-24R9	-24RL9	-24RR9	7-1/2	15
24''	12"		-24R12	-24RL12	-24RR12	6	12
24''	18"	A(L) I6	-24R18	-24RL18	-24RR18	3	6
30"	6''	A(L) I8	-30R6	-30RL6	-30RR6	12	24
30"	9"	A(L)10	-30R9	-30RL9	-30RR9	10-1/2	21
30"	12"		-30R12	-30RL12	-30RR12	9	18
30"	18"		-30R18	-30RL18	-30RR18	6	12
30"	24''		-30R24	-30RL24	-30RR24	3	6
36"	6''		-36R6	-36RL6	-36RR6	15	30
36"	9"		-36R9	-36RL9	-36RR9	13-1/2	27
36"	12"		-36R12	-36RL12	-36RR12	12	24
36"	18"		-36R18	-36RL18	-36RR18	9	18
36"	24''		-36R24	-36RL24	-36RR24	6	12
36"	30"		-36R30	-36RL30	-36RR30	3	6

(L) = Ladder or (4) for Rung Spacing on 6" - 36" wide Ventilated Trough

"L" = 24" Long

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