# CABLE TRAY STRAIGHT SECTIONS - ALUMINUM

<table>
<thead>
<tr>
<th>SIDE RAIL HEIGHT</th>
<th>LOAD DEPTH</th>
<th>NEMA LOAD CLASS</th>
<th>NEMA SAFE LOAD LOAD - SPAN</th>
<th>CSA LOAD CLASS</th>
<th>SYSTEM NUMBER</th>
<th>FITTINGS CLASS</th>
<th>STANDARD TRAY LENGTH</th>
<th>U.L. AREA</th>
<th>AMP RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>3&quot;</td>
<td>12B</td>
<td>81 lbs/ft - 12&quot; span</td>
<td>C</td>
<td>A412B</td>
<td>1</td>
<td>12'</td>
<td>0.60 in²</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12C</td>
<td>100 lbs/ft - 12&quot; span</td>
<td>D-3M</td>
<td>A412C</td>
<td>1</td>
<td>12', 24'</td>
<td>0.60 in²</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20A</td>
<td>58 lbs/ft - 20&quot; span</td>
<td>D-6M</td>
<td>A420A</td>
<td>2</td>
<td>12', 20'</td>
<td>1.50 in²</td>
<td>1600</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20B</td>
<td>85 lbs/ft - 20&quot; span</td>
<td>E-6M</td>
<td>A420B</td>
<td>2</td>
<td>20', 24'</td>
<td>1.50 in²</td>
<td>1600</td>
</tr>
<tr>
<td>5&quot;</td>
<td>4&quot;</td>
<td>12B</td>
<td>78 lbs/ft - 12&quot; span</td>
<td>C</td>
<td>A512B</td>
<td>1</td>
<td>12'</td>
<td>1.00 in²</td>
<td>1200</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20A</td>
<td>57 lbs/ft - 20&quot; span</td>
<td>D-6M</td>
<td>A520A</td>
<td>2</td>
<td>12', 20'</td>
<td>1.50 in²</td>
<td>1600</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20C</td>
<td>115 lbs/ft - 20&quot; span</td>
<td>D-6M</td>
<td>A520C</td>
<td>2</td>
<td>20'</td>
<td>1.50 in²</td>
<td>1600</td>
</tr>
<tr>
<td>6&quot;</td>
<td>5&quot;</td>
<td>12B</td>
<td>89 lbs/ft - 12&quot; span</td>
<td>D-3M</td>
<td>A612B</td>
<td>1</td>
<td>12'</td>
<td>1.00 in²</td>
<td>1200</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12C</td>
<td>105 lbs/ft - 12&quot; span</td>
<td>D-6M</td>
<td>A612C</td>
<td>1</td>
<td>12'</td>
<td>1.00 in²</td>
<td>1200</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20A</td>
<td>62 lbs/ft - 20&quot; span</td>
<td>D-6M</td>
<td>A620A</td>
<td>2</td>
<td>12', 20'</td>
<td>1.50 in²</td>
<td>1600</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20B</td>
<td>80 lbs/ft - 20&quot; span</td>
<td>E-6M</td>
<td>A620B</td>
<td>2</td>
<td>20', 24'</td>
<td>1.50 in²</td>
<td>1600</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20C</td>
<td>109 lbs/ft - 20&quot; span</td>
<td>E-6M</td>
<td>A620C</td>
<td>2</td>
<td>12', 20', 24'</td>
<td>2.00 in²</td>
<td>2000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20C+</td>
<td>104 lbs/ft - 24&quot; span</td>
<td>E-6M</td>
<td>A624C</td>
<td>3</td>
<td>20', 24'</td>
<td>2.00 in²</td>
<td>2000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20C++</td>
<td>128 lbs/ft - 25' span</td>
<td>E-6M</td>
<td>A620D</td>
<td>3</td>
<td>20', 25'</td>
<td>2.00 in²</td>
<td>2000</td>
</tr>
<tr>
<td>7&quot;</td>
<td>6&quot;</td>
<td>12C</td>
<td>100 lbs/ft - 12&quot; span</td>
<td>D-3M</td>
<td>A712C</td>
<td>1</td>
<td>12'</td>
<td>1.00 in²</td>
<td>1200</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20C</td>
<td>108 lbs/ft - 12&quot; span</td>
<td>E-6M</td>
<td>A720C</td>
<td>2</td>
<td>20', 24'</td>
<td>2.00 in²</td>
<td>2000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20C+</td>
<td>111 lbs/ft - 24' span</td>
<td>E-6M</td>
<td>A720D</td>
<td>3</td>
<td>20', 25'</td>
<td>2.00 in²</td>
<td>2000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20C++</td>
<td>105 lbs/ft - 30&quot; span</td>
<td>E-6M</td>
<td>A720E</td>
<td>3</td>
<td>20', 30'</td>
<td>2.00 in²</td>
<td>2000</td>
</tr>
<tr>
<td>8&quot;</td>
<td>7&quot;</td>
<td>20C++</td>
<td>114 lbs/ft - 40' span</td>
<td>E-6M</td>
<td>A820E</td>
<td>4</td>
<td>30', 40'</td>
<td>2.00 in²</td>
<td>2000</td>
</tr>
</tbody>
</table>

## Cable Tray Cross-Section
- Extruded aluminum alloy 6063-T6
- Side rails are I-Beam profiles
- Rungs are 1-1/8" square tubes with open slot facing down
- Arc-welded construction
- U.L. Certified load capacities
- NEMA, CSA and NEC Compliant
- Necessary Splice Plates with hardware are included with all straight sections and fittings
- Made in the USA

## USTRAY Marine Rungs
- 1200 lbs/ft - 12' span
- 1200 lbs/ft - 24' span
- 1600 lbs/ft - 24' span
- 1600 lbs/ft - 36' span

## USTRAY Bottoms
- Heavy bottoms available
- Solid, 0.040" flat sheet on top of ladder rungs on 12" centers
- Bottoms can be located under rungs

## USTRAY Rungs
- Optional rung designs available
- Rungs have large radius corners
-Heavy bottoms available

## USTRAY Bottom Types
- Standard rung for 8" high trays
- Extra wide 1-5/8" cable support
- Heavy-duty for extreme loads
- Added cable clamping options
- Spring nuts with short springs for added cable clamping options

## USTRAY Hardware
- Geomet Plated Steel
- Stainless Steel 316

## Non-standard lengths and widths are available; consult factory for lead times.
CABLE TRAY STRAIGHT SECTIONS - ALUMINUM

<table>
<thead>
<tr>
<th>SIDE RAIL HEIGHT</th>
<th>LOAD DEPTH</th>
<th>NEMA LOAD CLASS</th>
<th>CSA LOAD CLASS</th>
<th>SYSTEM NUMBER</th>
<th>SAFE LOAD DATA (Lbs/Ft Uniformly Distributed, 1.5 Safety Factor)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>SUPPORT SPAN (feet)</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6  8  10 12 14 16 18 20 22 24 25 26 28 30 35 40</td>
</tr>
<tr>
<td><strong>4'</strong></td>
<td><strong>3'</strong></td>
<td>12B C</td>
<td>A412B</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>12C D-3M</td>
<td>A412C</td>
<td>400</td>
<td>225 144 100</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20A D-6M</td>
<td>A420A</td>
<td>644</td>
<td>363 232 118 90 72 58</td>
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<tr>
<td></td>
<td></td>
<td>20B E-6M</td>
<td>A420B</td>
<td>649</td>
<td>531 236 173 132 105 85</td>
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<tr>
<td><strong>5'</strong></td>
<td><strong>4'</strong></td>
<td>12B C</td>
<td>A512B</td>
<td>312</td>
<td>176 112 78</td>
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<tr>
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<td>20A D-6M</td>
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<td>356 228 158 116 89 70 57</td>
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<td></td>
<td>20C E-6M</td>
<td>A520C</td>
<td>649</td>
<td>460 319 234 179 142 115</td>
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<tr>
<td><strong>6'</strong></td>
<td><strong>5'</strong></td>
<td>12B D-3M</td>
<td>A612B</td>
<td>356</td>
<td>200 128 89</td>
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<td></td>
<td>12C D-3M</td>
<td>A612C</td>
<td>420</td>
<td>236 151 105</td>
</tr>
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<td></td>
<td></td>
<td>20A D-6M</td>
<td>A620A</td>
<td>649</td>
<td>387 248 172 126 96 77 62</td>
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<tr>
<td></td>
<td></td>
<td>20B E-6M</td>
<td>A620B</td>
<td>649</td>
<td>500 320 222 163 125 99 80</td>
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<tr>
<td></td>
<td></td>
<td>20C E-6M</td>
<td>A620C</td>
<td>649</td>
<td>436 303 222 170 135 109</td>
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<tr>
<td></td>
<td></td>
<td>20C+ D-6M</td>
<td>A624C</td>
<td>649</td>
<td>600 416 306 234 185 150 124 104 96</td>
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<tr>
<td></td>
<td></td>
<td>20C++ D-6M</td>
<td>A620D</td>
<td>649</td>
<td>649 555 408 313 247 200 165 139 128</td>
</tr>
<tr>
<td><strong>7'</strong></td>
<td><strong>6'</strong></td>
<td>12C D-3M</td>
<td>A712C</td>
<td>400</td>
<td>225 144 100</td>
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<tr>
<td></td>
<td></td>
<td>20C E-6M</td>
<td>A720C</td>
<td>649</td>
<td>432 300 220 169 133 108</td>
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<tr>
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<td>20C+ D-6M</td>
<td>A720D</td>
<td>649</td>
<td>639 444 326 249 197 161 132 111</td>
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<tr>
<td></td>
<td></td>
<td>20C++ D-6M</td>
<td>A720E</td>
<td>649</td>
<td>649 482 369 291 236 195 164 151 139 120 105</td>
</tr>
<tr>
<td><strong>8'</strong></td>
<td><strong>7'</strong></td>
<td>20C++ E-6M</td>
<td>A820E</td>
<td>800</td>
<td>800 800 800 800 712 562 456 376 316 292 269 232 203 149 114</td>
</tr>
</tbody>
</table>

NEMA AND CSA SPAN/LOAD CLASSES

**Span/Load Class Designations:** Commonly called the Load Class, this defines the load-carrying capability of the tray for a specific support span distance. The design and cost of the cable tray is greatly affected by this designation. In order to determine the most appropriate and economical system, a class should be selected that reflects the actual total working load and support span for each application.

**Concentrated Static Loads:** Some applications may require the cable tray to support the weight of a single, dead object in addition to the cable loads. Specifications typically require this to be applied at the midpoint of the span between the tray supports, which is the worst-case location.

To incorporate this in the tray design the following formula can be used to convert the concentrated static load in pounds to an equivalent uniform load (W) in pounds per foot. That equivalent load can then be combined with the weight of cables, tray contents, and other loads that are also expressed in lbs/ft to determine the total Working Load.

\[ W_e = \frac{2 \times \text{concentrated static load, lbs}}{\text{support span length, ft}} \]

**Note:** This calculation is based on the load being applied at the center of the tray in the middle of a rung or bottom. If the specification requires the concentrated static load to be applied on top of one side rail, then the equivalent uniform load will be 2 times the result of this calculation.

**Example:** A cable tray is to be supported on 20' spans. It shall contain 50 lbs/ft of cables and support 15 lbs/ft of snow load. It is also required to support a 250 pound concentrated static load applied in the center of the tray width.

Using the calculation above, the concentrated static load is converted to an equivalent uniform load as follows: \( 2 \times 250 \text{ lbs} / 20 \text{ ft} = 25 \text{ lbs/ft} \)

The Total Working Load will be the combination of all 3 loads, expressed in lbs/ft:

- Cables: 40 lbs/ft
- Snow: +15 lbs/ft
- Concentrated Load: +25 lbs/ft

**Total Working Load:** 80 lbs/ft

Refer to the chart on the right. With a support span of 20' and a total working load of 80 lbs/ft, a NEMA Class 20B tray rated at 75 lbs/ft will not be adequate. A NEMA Class 20C tray, rated at 100 lbs/ft, will be required.

**SPAN/LOAD CLASS DESIGNATIONS**

**Per NEMA STANDARD VE1 / CSA C22.2 No. 126**

<table>
<thead>
<tr>
<th>WORKING LOAD Lbs/Ft (Kg/M)</th>
<th>SUPPORT SPAN, Feet (Meters)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5 Ft. (1.5 M)</td>
</tr>
<tr>
<td>----------------------------</td>
<td>---------------</td>
</tr>
<tr>
<td>25 (37)</td>
<td>5AA</td>
</tr>
<tr>
<td>45 (67)</td>
<td></td>
</tr>
<tr>
<td>50 (74)</td>
<td>5A</td>
</tr>
<tr>
<td>65 (97)</td>
<td>C</td>
</tr>
<tr>
<td>75 (112)</td>
<td>8B</td>
</tr>
<tr>
<td>100 (149)</td>
<td>8C</td>
</tr>
<tr>
<td>120 (179)</td>
<td></td>
</tr>
<tr>
<td>200 (299)</td>
<td>E*</td>
</tr>
</tbody>
</table>

* CSA Classes D and E are applicable to both 3.0 and 6.0 meter support spans. The appropriate support span should also be included when specifying these classes (example: D-3M).

**Working Load:** The total load supported by the cable tray, uniformly distributed. This will be the combined weight of all of the cables or tray contents, any environmental loads (snow, ice, dust) and any concentrated static loads.

**Support Span:** The maximum distance between the tray supports.

**NEMA Load Classes:** A number (support span in feet) combined with a letter (load capacity: A=50, B=75 and C=100 Lbs/Ft). Defined in the National Electrical Manufacturers Assoc. NEMA Standard VE1.

**CSA Load Classes:** A single letter (A,B,C,D,E) designates the load capacity per Canadian Standards Association CSA Standard C22.2, No. 126.
CABLE TRAY FITTINGS - ALUMINUM

**CLASS 1 FITTINGS**
- NEMA Class 12B & 12C Trays
- 1-1/8’ Wide Side Rail Flanges
- 4-Bolt Connector Plates
- 3” Tangents

**CLASS 2 FITTINGS**
- NEMA Class 20A, 20B, 20C Trays
- 2” Wide Side Rail Flanges
- 4-Bolt Connector Plates
- 3” Tangents

**CLASS 3 FITTINGS**
- NEMA Classes beyond 20C
- 2-3/8” Wide Side Rail Flanges
- 8-Bolt Connector Plates
- 3” Tangents

**CLASS 4 FITTINGS**
- 8” High Long-Span System A820E
- 2-3/4” Wide Side Rail Flanges
- 8-Bolt Wrap-Around Connectors
- 3” Tangents

**Material:** All fittings are aluminum with arc-welded construction.

**Side Rails:** Fitting side rails are I-beams with overall dimensions similar to straight tray sections.

**Rungs and Bottoms:** Rung and Bottom designs are identical to similar straight cable tray sections.

**Tangents:** All fittings have 3” tangents (flats) at the end of all curved side rails to accommodate splice plate connectors.

**Radius:** Standard NEMA VE1 12’, 24” and 36” available for all curved fittings. 48” radius and other custom designs are available, consult factory.

**Square Corners:** 90 Degree Horizontal Elbows, Horizontal Tees and Horizontal Crosses are available with square corners (0” Radius). The 6” through 18” square-corner fittings are designed to align with the centerline of 24” square panels of raised-floor systems.

**Splice Plates:** All elbows are supplied with one pair of standard splice plates with hardware at no charge. Wye fittings and tees include 2 pairs and crosses include 3 pairs with hardware at no charge.

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**Catalog Numbers for Horizontal and Vertical Elbows, Standard Horizontal Tees and Crosses**

**Catalog Number Example:**

A62 - 09(*) - 90H24 - 36 - G

- **Material:** Aluminum
- **Side Rail Height:**
  - 4 - 4” High
  - 5 - 5” High
  - 6 - 6” High
  - 7 - 7” High
  - 8 - 8” High
- **Fitting Class:**
  - 1 - NEMA Classes 12B & 12C
  - 2 - NEMA Classes 20A, 20B & 20C
  - 3 - NEMA Classes exceeding 20C
  - 4 - 8” High System A820E
- **Bottom Type:**
  - 06 - 6” Rung Spacing
  - 09 - 9” Rung Spacing
  - 12 - 12” Rung Spacing
  - VT - Ventilated/Trough
  - SF - Solid Flat Bottom
  - SU - Solid Flat Bottom, Under Rungs
- **Optional Rungs and Bottoms:**
  - BLANK - Standard Design, No Options
  - Insert 2-Digit Bottom Code (See Page 1) to specify optional rungs and bottoms
  - 00 - Square Corners and Adjustable Elbows (HAE)
- **Item Code:**
  - Insert 2 or 3-digit Item Code to specify Fitting type
- **Hardware Finish:**
  - G - Geomet Plated Steel
  - S - Stainless Steel Type 316

**Catalog Numbers for Reducer Fittings, Reducing and Expanding Tees, Reducing Crosses**

**Catalog Number Example:**

A73 - 09(*) - HTR24 - 36 - 18 - S

- **Material:** Aluminum
- **Side Rail Height:**
  - 4 - 4” High
  - 5 - 5” High
  - 6 - 6” High
  - 7 - 7” High
  - 8 - 8” High
- **Fitting Class:**
  - 1 - NEMA Classes 12B & 12C
  - 2 - NEMA Classes 20A, 20B & 20C
  - 3 - NEMA Classes exceeding 20C
  - 4 - 8” High System A820E
- **Bottom Type:**
  - 06 - 6” Rung Spacing
  - 09 - 9” Rung Spacing
  - 12 - 12” Rung Spacing
  - VT - Ventilated/Trough
  - SF - Solid Flat Bottom
  - SU - Solid Flat Bottom, Under Rungs
- **Optional Rungs and Bottoms:**
  - BLANK - Standard Design, No Options
  - Insert 2-Digit Bottom Code (See Page 1) to specify optional rungs and bottoms
  - 00 - Square Corners
  - BLANK - Reducer Fittings
- **Item Code:**
  - Insert 2, 3 or 4-digit Item Code to specify Fitting type
- **Hardware Finish:**
  - G - Geomet Plated Steel
  - S - Stainless Steel Type 316
**HORIZONTAL TEE**

- **90°**
- **60°**
- **45°**
- **30°**

**VERTICAL TEE DOWN**
- Standard Tee (W1 = W2)
- Reducing Tee (W1 < W2)
- Expanding Tee (W1 > W2)

**VERTICAL TEE UP**
- Standard Tee (W1 = W2)
- Reducing Tee (W1 < W2)
- Expanding Tee (W1 > W2)

**DROP OUT TEE WITH VERTICAL RISER TAP**
- Standard Tee (W1 = W2)
- Reducing Tee (W1 < W2)
- Expanding Tee (W1 > W2)

**DROP OUT CROSS WITH VERTICAL RISER TAPS**
- Standard Cross (W1 = W2)
- Reducing Cross (W1 < W2)
- Expanding Cross (W1 > W2)

**VERTICAL ELBOWS**

- **90°**, **60°**, **45°**, **30°**

**REUTERS**

- **VERSE AND CROSSES**

**UNIVERSAL TEE**

- **HORIZONTAL TEE**
- **HORIZONTAL CROSS**

**ADJUSTABLE ELBOW**
- **WYE - LEFT**
- **WYE - RIGHT**
- **STRAIGHT**
- **LEFT-HAND**
- **RIGHT-HAND**

**REDUCERS**

- **STRAIGHT**
- **LEFT-HAND**
- **RIGHT-HAND**

**VERTICAL TEE**

- **DROP OUT TEE**
- **DROP OUT CROSS**

**ITEM CODE**


**4**

**PHONES:**
- **404-696-8585**
VERTICAL ELBOWS

90° CABLE SUPPORT ELBOW (VERTICAL OUTSIDE)
- Equivalent to standard 90° vertical outside elbow with additional bracing
- Square outer corners
- Angle brace on top with holes for 3/8” dia. fasteners
- Attach eye bolts or hooks to support Kellums cable grips and relieve tension in long vertical cable drops
- Also provides alternatives to support elbow from above

EYE BOLT KIT
- 3/8” Dia. x 5” Long Eye Bolt and (2) 3/8” Flanged Hex Nuts
- Stainless Steel
- Use in Cable Support Elbow to attach Kellums cable grips

90° BOTTOM SUPPORT ELBOW (VERTICAL INSIDE)
- Equivalent to standard vertical inside elbow with additional bracing
- Square outer corners
- Provides alternatives to support the elbow from below

DIVIDERS

STRAIGHT
Supplied with (4) #10 self-drilling, stainless steel screws

STRAIGHT - HEAVY DUTY
Includes holes for installation with U-Bolt Divider Clamps (ordered separately)

HORIZONTAL FLEXIBLE
Supplied with (3) #10 self-drilling, stainless steel screws

VERTICAL ELBOW
Standard: Supplied with (2) #10 self-drilling, stainless steel screws
Heavy-Duty: Includes holes for installation with U-Bolt Divider Clamps (ordered separately)

U-BOLT DIVIDER CLAMP KIT
- Heavy-duty for high winds
- Install on 36” - 48” centers (Same as tek screws in standard configuration)
- Includes U-Bolt, alum. plate and (2) 1/4” flanged hex nuts
- Bolt and nuts are type 316 Stainless Steel

CABLE BRIDGE FOR DIVIDED TEES AND CROSSES
- Provides support for vertical cable separation where cables cross in divided Horizontal Tees and Crosses
- Dimensions can be customized to meet specific project requirements
- Includes (6) #10 x 1” long self-drilling, stainless steel screws
- Standard height B is typically 1/2 of the tray interior load depth
- Standard length (L*) is typically 20”

U-BOLT DIVIDER CLAMP KIT

CABLE BRIDGE FOR DIVIDED TEES AND CROSSES

VERTICAL ELBOW

CABLE BRIDGE FOR DIVIDED TEES AND CROSSES

CATALOG NO. EACH

CB - A(H*)-(W*)-(L*)

(H*) Insert tray side rail height in inches (4, 5, 6, 7, 8)
(W*) Insert Bridge width in inches (03, 4.5, 06, 09, 12, 15, 18, 24, 30)
(L*) Insert Bridge length in inches (05, 08, 12, 18, 20, 24, 27, 30, 36)
COVERS

**Straight Cover Catalog Numbers:**

Example:

**Fitting Cover Catalog Numbers:**

Example:

COVER CONNECTORS

COVER CLAMPS

OUTDOOR OR VERTICAL USE

- **FLAT STRAP**
  - ITEM CODE: CFS
- **PEAKED STRAP**
  - ITEM CODE: CPS

ELEVATED COVER CLAMP

- ITEM CODE: CCE-(†)*

(†) Specify Gap = 1", 2", 3", 4"

COVER SUPPORT BRACE

- Reinforces sagging Covers
- Install under covers on 24" to 36" centers
- Aluminum extrusion

ALUMINUM COVER JOINT STRIP

- (W)* Insert tray width in inches

- F*=Fastener materials
  - G: Steel, Geomet Plated
  - Z: Steel, Zinc Plated
  - S: Stainless Steel, Type 316

COVER CLIPS

INDOOR AND HORIZONTAL USE

STANDARD COVER CLIP

- Indoor Use Only
- 18-8 Stainless Steel Clip and Screw

RAISED COVER CLIP

- Indoor Use Only
- Aluminum Clip
- (†) Specify Gap = 1", 2", 3", 4"

COVER SUPPORT BRACE

- Reinforces sagging Covers
- Install under covers on 24" to 36" centers
- Aluminum extrusion

- (W)* Insert nominal tray width in inches

ALUMINUM COVER JOINT STRIP

- CATELOG NO. EA.
  - CS-A-(W)*

USTRAY

United Structural Products, LLC

Phone: 404-696-8585

ustray.com
SPLICES AND CONNECTORS

SPLICES

**STEP-DOWN (REDUCING HEIGHT)**
- Transition between different side rail heights
- Step down from nominal side rail Height H₂ to H₁ (H₁ = 4", 5", 6", 7" or 8")

**CONVERSION PLATE**
- Holes on one side connect to USTray components
- No holes on opposite side for field modifications

**FLOOR SUPPORT BRACKETS**
- Supports tray directly above floor
- Elevation (E) as required, 36° Max.
- Tray connection hardware is included
- Floor connection hardware not included
- For applications with multiple tiers of trays stacked vertically, these brackets can be designed to stack on top of each other and share the same 9/16" dia. hole for the floor connection hardware
- Heavy-Duty aluminum material

**CONDUIT CONNECTOR PLATE FOR 6" HIGH, NEMA 20C TRAY SYSTEMS**
- Reinforces the tray to permit field-drilled holes in the side rails for conduit connector bushings
- Install up to 6 places anywhere in each side rail of a 20' long tray section and still maintain NEMA 20C load rating
- Load tests per NEMA VE1 witnessed and certified accurate by U.L.
- The size of hole required for the conduit bushing shall be specified by customer (2.5" maximum diameter)
- This is a modified SPS splice plate connector that attaches with standard connector hardware

**SUPPORT HANGERS**
- Transition between trays
- Adjustable to any angle
- Supplied in pairs with fasteners
- One pair required for each tray-to-tray connection
- Two pairs required to make transition shown in illustration

**OFFSET REDUCING**
- Supplied each, not in pairs

**Splice Plate & Connector Catalog Numbers:**

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Splice or Connector</th>
<th>Item Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPP</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Example:**
SPP - A7 - G4
- Material: Aluminum
- Side Rail Height: 4" - 6" High
- Hardware Finishes: Geomet, Stainless Steel 316
- Hardware Quantity: 4 - (4) Screws per plate

**Item Code**
- SPR-(†)*

**Catalog No. (Pair)**
- SPFS-A(H₁) - (E) - (F) - 2
  - (H₁) Insert nominal tray side rail height
  - (E) Insert required tray bottom elevation
  - (F) Insert hardware material

**Catalog No. (Each)**
- CCP-A6-(D) - (F) - 4
  - (D) Insert required bushing hole diameter
  - (F) Insert hardware material

*All Splice Plates (except reducing) are supplied in pairs. Geomet-plated steel hardware is supplied with all splices and connectors. Type 316 stainless steel hardware is optional.

*Standard Splice Plates are automatically included with all straight tray sections and fittings. Extras for field cuts or spares should be ordered separately.

*Bonding Jumpers are required for use only with expansion connectors and at discontinuities in the tray system. Bonding jumpers are not required for use with vertical or horizontal adjustable connectors.

*SPLICES ARE AUTOMATICALLY INCLUDED ON ALL STRAIGHT TRAYS AND FITTINGS. EXTRA FOR FIELD CUTS OR SPARES SHOULD BE ORDERED SEPARATELY.
**BONDING AND GROUNDING**

**BONDING JUMPERS**
- THHN Copper, Green Insulation, 16” Long
- 250 MCM is Black Welding Cable
- One-hole Lugs sized for 3/8” fasteners
- Fasteners ordered separately
- Consult factory for other sizes and lengths

<table>
<thead>
<tr>
<th>CABLE SIZE</th>
<th>AMPERAGE NEC 250.122</th>
<th>CATALOG NO. EA.</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1</td>
<td>600</td>
<td>GBJ-C-600</td>
</tr>
<tr>
<td>1/O</td>
<td>800</td>
<td>GBJ-C-800</td>
</tr>
<tr>
<td>2/O</td>
<td>1000</td>
<td>GBJ-C-1000</td>
</tr>
<tr>
<td>3/O</td>
<td>1200</td>
<td>GBJ-C-1200</td>
</tr>
<tr>
<td>4/O</td>
<td>1600</td>
<td>GBJ-C-1600</td>
</tr>
<tr>
<td>250</td>
<td>2000</td>
<td>GBJ-C-2000</td>
</tr>
</tbody>
</table>

**GROUND WIRE SUPPORT CLAMP**
- For support only, does not bond
- Clamp is 316 stainless steel
- 1/4” Screw & flanged nut included
- Insert fastener finish (F) = Z or S

<table>
<thead>
<tr>
<th>WIRE SIZE</th>
<th>CATALOG NO. EA.</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1 thru 2/O</td>
<td>GWS-S-1-(F)*</td>
</tr>
<tr>
<td>3/O thru 250 MCM</td>
<td>GWS-S-2-(F)*</td>
</tr>
<tr>
<td>300 thru 500 MCM</td>
<td>GWS-S-3-(F)*</td>
</tr>
</tbody>
</table>

**GROUND WIRE CLAMP**
- UL Listed for bonding
- No field-drilling req’d.
- #6 thru 250 MCM wire
- Aluminum clamp
- Zinc plated screws

**GROUND WIRE LAY-IN LUG**
- UL Listed for bonding
- #6 thru 250 MCM wire
- Aluminum clamp
- Field-drilling is required
- Can be factory-welded to side rails as needed
- UL Listed as welded assembly when welded

**HOLD DOWN CLAMPS**

**HOLD DOWN CLAMP & EXPANSION GUIDE (SERIES 2, 3 & 4 TRAYS ONLY)**
- “Locks On” outside flange of Tray side rails, preventing movement in all directions
- Functions as Hold Down Clamp and Expansion Guide
- Colored stripes indicate use
- For use only with heavy-duty Trays - Series 2, 3 and 4
- Hole sized for 3/8” fasteners, ordered separately
- Hole sized for 1/2” fasteners is optional, consult factory
- Extruded Aluminum

<table>
<thead>
<tr>
<th>CATALOG NO. EA.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>HDH-A</td>
<td>HDL-A</td>
</tr>
</tbody>
</table>

**HOLD DOWN CLAMP & EXPANSION GUIDE (SERIES 1 TRAYS ONLY)**
- Hole sized for 3/8” fasteners
- Hole sized for 1/4” fasteners is optional, consult factory
- Extruded Aluminum

**HOLD DOWN CLAMP & EXPANSION GUIDE, I-BEAM**
- No drilling of I-beam support
- Cast iron material per ASTM A220
- Hot-dip galv. after fab. per ASTM A-123
- 1/2” Dia. fasteners included
- (F)* Insert Z or S

<table>
<thead>
<tr>
<th>CATALOG NO. EA.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Hold Down Clamp</td>
<td>HHB-H-(F)*</td>
</tr>
<tr>
<td>Expansion Guide</td>
<td>HEB-H-(F)*</td>
</tr>
</tbody>
</table>

**HOLD DOWN BRACKETS**
- 2 HOLES
- 4 HOLES
- Aluminum
- 3/8” tray attachment hardware included
- 1/2” support attachment hardware not included

<table>
<thead>
<tr>
<th>CATALOG NO. EA.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 HOLES</td>
</tr>
<tr>
<td>4 HOLES</td>
</tr>
</tbody>
</table>

**HANGER ROD CLAMP**
- Zinc plated steel
- Use with 1/2” threaded rod
- Order 1/2” threaded rod and hex nuts separately

<table>
<thead>
<tr>
<th>CATALOG NO. EACH</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRC-Z(H)<em>-(C)</em></td>
</tr>
<tr>
<td>(H)* Insert tray height in inches (C)* Insert Fitting Class = 1, 2 or 3</td>
</tr>
</tbody>
</table>

**CONDUIT ATTACHMENT BRACKET & CLAMP**
- Aluminum Bracket
- “Specify conduit type (D)” = R for Rigid, E for EMT
- “Specify conduit size in inches (H)” = .5, .75, 1, 1.25, 1.5, 2, 2.5, 3, or 4
- “Specify Tray Fitting Class (C)” = 1, 2, 3 or 4
- Bracket Only
- Clamp + Bracket

<table>
<thead>
<tr>
<th>CATALOG NO. EACH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAB-(C)<em>-(F)</em></td>
</tr>
<tr>
<td>CAC-(D†)-(C)<em>-(F)</em></td>
</tr>
<tr>
<td>(F)* Insert Z or S for clamp &amp; fastener material</td>
</tr>
</tbody>
</table>

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United Structural Products, LLC
Phone: 404-696-8585
ACCESSORIES

RAIN HOOD FOR WALL PENETRATION SLEEVE
- Cover attaches to Wall Penetration Sleeve
- Top of outdoor tray attaches to bottom of sleeve to create downhill "Drip Loop" in cables and prevent water from seeping into building
- Aluminum materials
- Fasteners are stainless steel type 316
- Rain Hood attaches independently of tray and sleeve assembly

CATALOG NUMBER EACH
RHP- A(H)*-(C)*-(W)*S

(H)* Insert tray side rail height in inches (4, 5, 6, 7, 8)
(C)* Insert tray fitting class 1, 2, 3 or 4
(W)* Insert tray width in inches (06, 09, 12, 18, 24, 30, 36)

WALL PENETRATION SLEEVE
- Steel; Mill-Galv. or Hot-Dip Galvanized
- 2 pairs of splice plates and 3/8" tray attachment hardware included

CATALOG NO. EACH
WPS-(M)*-(H)*-(W)*-(F)*

(M)* Insert H or M
(W)* Insert tray width
(H)* Insert tray height
(F)* Insert C or S

REPLACEMENT RUNGS
- Replace damaged rungs in field
- Add to support heavy point loads
- Installation hardware included

CATALOG NO. EACH
RRL-A-(W)*-(F)*

Strut Profile
RRS-A-(W)*-(F)*

Marine Slotted
RRM-A-(W)*-(F)*

(W)* Insert tray width
(F)* Insert C or S

NYLON PADS
- 1/8" Thick Black Nylon
- U.V. Rated for Outdoor Use

CATALOG NO. (EA.)
3" x 6" Solid
NP-36

3" x 2" with 1/2" Hole
NP-32-12

BLIND END PLATE
- Aluminum
- 3/8" tray attach. hardware included

CATALOG NO. EACH
BE-A(H)*-(W)*-(F)*

Blind End (Ladder)
BE-A(H)*-(W)*-(F)*-SB

Blind End (Solid-Btm)
Box Conn.
BC-A(H)*-(W)*-(F)*

(H)* Insert tray height
(W)* Insert tray width
(F)* Insert C or S

LADDER CABLE DROPOUT
- 3" Radius
- Aluminum
- 1/4" Fasteners included

CATALOG NO. EACH
LD-A-(C)*-(W)*-(F)*

(C)* Insert tray fitting class: 1, 2, 3 or 4
(W)* Insert tray width
(F)* Insert Z or S

NEOPRENE
- 1/8" x 2"
- 25' Roll
- Good isolator
- Other sizes available

CATALOG NO. EACH
NR-18-2

BLIND END PLATE BOX CONNECTOR, FRAME-TYPE
- Solid aluminum
- 6" High support
- 7" Wide base
- Heavy-duty
- Strut profile on top
- Cut to any length
- Neoprene and adhesive bases available

CATALOG NO. EA.
RB-A-(W)*

(W)* Insert Block width in inches
### HANGER CHANNELS

- **CATALOG NO. EA.**
  - **HCS-(M)^*(W)^*:** Single strut
  - **HCD-(M)^*(W)^*:** Double strut
  - **HCC-(W)^*:** Center-hung

- **Insert material:**
  - **M:** Mill Galvanized
  - **H:** Hot-Dip Galvanized

- **Blind ends:**
  - **(W)** Insert channel width in inches: Single & double use nominal tray width + 12". For center-hung channel use tray width + 6"

### WALL BRACKETS

- **Material:** Steel, Hot-Dip Galvanized After Fabrication Per ASTM A-123

- **CATALOG NO. EA.**
  - **WBH-H-(W)^*:** Single channel, heavy duty
  - **WBS-H-(W)^*:** Single channel, standard
  - **WBD-H-(W)^*:** Double channel

  - **Insert channel width in inches: Use nominal tray width + 6"**

### SUPPORT HARDWARE KITS

- **SUPPORT TYPE**
  - **Trapeze:**
    - **Light** SKTL-A-(Z or S)-38-15-(or)
    - **Heavy** SKTH-A-(Z or S)-38-15-(or)
  - **Center Hung:**
    - **Light** SKCL-A-(Z or S)-38-15-(or)
    - **Heavy** SKCH-A-(Z or S)-38-15-(or)
  - **Wall Bracket:**
    - **Light** SKWL-A-(Z or S)-38-15-(or)
    - **Heavy** SKWH-A-(Z or S)-38-15-(or)

- **Chart above shows quantities of each item included in kits, supplied in plastic bags.**

### FASTENERS & HARDWARE

- **TYPE**
  - **3/8" x 3/4"**
    - **A,D,F,L**
      - **F-RNS-38-34-(C or S)**
  - **1/4"**
    - **B,E,G,J,M,N**
      - **F-FHN-14-(Z or S)**
      - **F-FHW-14-(Z or S)**
    - **A,C,D,F,H,L**
      - **F-FHN-38-(Z or S)**
    - **C,H**
      - **F-FHN-12-(Z or S)**
  - **3/8"**
    - **F-SHN-38-(Z or S)**
    - **F-SHN-12-(Z or S)**
  - **1/2"**
    - **F-LHN-38-(S)**
  - **1/4"**
    - **E**
      - **F-RFW-14-(Z or S)**
    - **D**
      - **F-RFW-38-(Z or S)**
      - **F-RFW-12-(Z or S)**
    - **G**
      - **F-HHB-14-15-(Z or S)**
    - **H,L**
      - **F-HHB-12-15-(Z or S)**
    - **E**
      - **F-SRS-14-15-(Z or S)**
    - **D**
      - **F-PRS-38-34-(S)**
    - **K**
      - **F-SRS-15-15-(Z or S)**
  - **1/4" x 3/4"**
    - **B,M**
      - **F-SNC-14-34-(Z or S)**
  - **1/4" x 5"**
    - **N-4"High**
      - **F-SNC-14-5-(Z or S)**
    - **N-5"High**
      - **F-SNC-14-6-(Z or S)**
    - **N-6"High**
      - **F-SNC-14-7-(Z or S)**
    - **N-7"High**
      - **F-SNC-14-8-(Z or S)**

- **Fastener materials:**
  - **Steel:** Geomet Plated
  - **Steel:** Zinc Plated
  - **Stainless Steel:** Type 316

- **Fastener Uses:**
  - (A) Splice plates & tray connectors
  - (B) Flat & peaked strap cover clamps
  - (C) Trapeze hangers & supports
  - (D) Expansion connectors
  - (E) Cable dropouts
  - (F) Blind ends
  - (G) Hold down clamp - HDL
  - (H) Hold down clamp - HDH
  - (J) Ground wire support clamps
  - (P) Dividers
  - (K) Bonding jumpers
  - (L) Hold down brackets
  - (M) Conduit clamp brackets
  - (N) Channel & elevated cover clamps

---

**Note:** 3/8" = 3/8", 1/2" = 1/2" Hardware for use with 3/8" or 1/2" threaded rod.
CABLE CHANNEL STRAIGHT SECTIONS - ALUMINUM

- Extruded aluminum alloy 6063-T6
- Ventilated and Solid designs
- Ventilated have large holes for cable drops and slots for cable ties
- Ventilated have holes for splice plates that repeat on 12" centers to simplify field modifications
- U.L. Classified grounding
- U.L. Certified load capacities
- NEMA, CSA and NEC Compliant
- Necessary Splice Plates with hardware are included with all straight sections and fittings

<table>
<thead>
<tr>
<th>WIDTH</th>
<th>DEPTH</th>
<th>DESIGN</th>
<th>SYSTEM NUMBER</th>
<th>STANDARD LENGTH</th>
<th>U.L. AREA</th>
<th>AMP RATING</th>
<th>NEMA LOAD CLASS</th>
<th>SUPPORT SPAN (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3&quot;</td>
<td>1.75&quot;</td>
<td>SOLID</td>
<td>ACHS</td>
<td>12'</td>
<td>0.40 in²</td>
<td>600</td>
<td>5A</td>
<td>40 22 14 10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>VENTED</td>
<td>ACHV</td>
<td>12'</td>
<td>0.40 in²</td>
<td>600</td>
<td>5A</td>
<td>40 22 14 10</td>
</tr>
<tr>
<td>4&quot;</td>
<td>1.75&quot;</td>
<td>SOLID</td>
<td>ACHS</td>
<td>12'</td>
<td>0.60 in²</td>
<td>1,000</td>
<td>8AA</td>
<td>48 27 12 12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>VENTED</td>
<td>ACHV</td>
<td>12'</td>
<td>0.40 in²</td>
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<td>6&quot;</td>
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<td>0.60 in²</td>
<td>1,000</td>
<td>8AA</td>
<td>48 27 12 12</td>
</tr>
</tbody>
</table>

Catalog Numbers for Straight Channel Sections

Example: ACHV - 175 - SL12 - 04 - S

Channel Hole Pattern Details (Pattern Repeats on 12" Centers)

Score lines stamped on surface of ventilated Channels on 12" centers indicate the ideal locations to make field cuts that will ensure alignment of pre-punched holes for splice plate connections

Round slots for cable ties and ventilation

Pre-punched round holes for Splice Plate connections

Large round holes for cable dropouts and ventilation accept Cable Bushings for cable protection

CABLE BUSHING

- Provides protection for cables
- Snaps into large holes in ventilated channels
- Black plastic

<table>
<thead>
<tr>
<th>CHANNEL WIDTH</th>
<th>CATALOG NO. (EACH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3&quot;</td>
<td>SB-P-1.25</td>
</tr>
<tr>
<td>4&quot; &amp; 6&quot;</td>
<td>SB-P-2</td>
</tr>
</tbody>
</table>

11 United Structural Products, LLC
Phone: 404-696-8585
**CHANNEL FITTINGS**

**Material:** All channel fittings are aluminum alloy 5052 with arc-welded construction.

**Channel Bottoms:** Fittings are available in solid and ventilated designs.

**Tangents:** All fittings have 3” tangents (flats) at the end of all curved side rails to accommodate splice plate connectors.

**Radius:** Standard 12”, 24” and 36” radius are available for all fittings. 48” radius and other custom designs are also available, consult factory.

**Splice Plates:** All elbows are supplied with one standard splice plate with hardware at no charge. Tee fittings include 2 and crosses include 3 connectors with hardware at no charge.

**CHANNEL DIVIDERS**

**STRAIGHT**

- Supplied with (4) #10 self-drilling, stainless steel screws

**HORIZONTAL FLEXIBLE**

- Supplied with (3) #10 self-drilling, stainless steel screws

**VERTICAL ELBOW**

- Supplied with (2) #10 self-drilling, stainless steel screws

**DIVIDER SPLICE**

- Flexible PVC with internal metal clips
- Align and protect divider ends

---

**Verticle Elbow Divder Catalog Numbers:**

Example: **DFC - A175 - 45VO24**

**Item Code**

- **DFC** - Vertical Elbow

**Elbow Item Code**

- 90VO - 90° Vertical Outside
- 90VI - 90° Vertical Inside
- 60VO - 60° Vertical Outside
- 60VI - 60° Vertical Inside
- 45VO - 45° Vertical Outside
- 45VI - 45° Vertical Inside
- 30VO - 30° Vertical Outside
- 30VI - 30° Vertical Inside

**Radius**

- 12 - 12°
- 24 - 24°
- 36 - 36°

**CATALOG NO.**

- **DVS-5** - 5”
- **DVS-(L)*** - L* = Inches
**CHANNEL SPLICES AND CONNECTORS**

**All Splice Plates for Channel are supplied in single units, not in pairs.** Geomet-plated steel hardware is supplied with all splices and connectors. Type 316 stainless steel hardware is optional.

**Standard Splice Plates** are automatically included with all straight Channel sections and fittings. Extras for field cuts or spares should be ordered separately.

**Bonding Jumpers** are required for use only with expansion connectors and at discontinuities in the tray system.

**Splice Plates & Connector Catalog Numbers:**

Example: **SPW - AC4 - G4**

- **Material:** AC (Aluminum Channel)
- **Channel Width:** 3 - 3” Wide
- **Hardware Finish:** Geomet
- **Hardware Quantity:** 4 - 4 Screws per plate
- **Item Code:** SPW
- **Splice or Connector:** AC
- **Item Code:** AC4
- **Material:** G (Stainless Steel 316)
- **Item Code:** G4

**CHANNEL COVERS**

**Flat, Flanged, Solid**

- **COVER SYSTEM:** FFS
- **Material:** ACC (Aluminum Channel Cover)
- **Length:** 03 - 3”
- **Width:** 04 - 4”
- **Thickness:** 06 - 6”

**Flat, Flanged, Ventilated**

- **COVER SYSTEM:** FFV
- **Material:** ACC (Aluminum Channel Cover)
- **Length:** 03 - 3”
- **Width:** 04 - 4”
- **Thickness:** 06 - 6”

**Peaked 20°, Flanged, Solid**

- **COVER SYSTEM:** PFS
- **Material:** ACC (Aluminum Channel Cover)
- **Radius:** 03 - 3”
- **Width:** 04 - 4”
- **Thickness:** 06 - 6”

**Cover Clamps - Flat Covers**

- **WIDTH**
  - 3” CFS-AC-03-S
  - 4” CFS-AC-04-S
  - 6” CFS-AC-06-S

**Cover Clamps - Peaked Covers**

- **WIDTH**
  - 3” CPS-AC-03-S
  - 4” CPS-AC-04-S
  - 6” CPS-AC-06-S

**Combination Cover Clamp & Hold-Down**

- **CATALOG NO. EA.** HDC-AC

**Phone:** 404-696-8585

---

**CHANNEL COVERS**

**Peaked 20°, Flanged, Solid**

- **COVER SYSTEM:** PFS
- **Material:** ACC (Aluminum Channel Cover)
- **Radius:** 03 - 3”
- **Width:** 04 - 4”
- **Thickness:** 06 - 6”

**Cover Clamps - Peaked Covers**

- **WIDTH**
  - 3” CPS-AC-03-S
  - 4” CPS-AC-04-S
  - 6” CPS-AC-06-S

**Combination Cover Clamp & Hold-Down**

- **CATALOG NO. EA.** HDC-AC

**Phone:** 404-696-8585

---

**CHANNEL COVERS**

**Peaked 20°, Flanged, Solid**

- **COVER SYSTEM:** PFS
- **Material:** ACC (Aluminum Channel Cover)
- **Radius:** 03 - 3”
- **Width:** 04 - 4”
- **Thickness:** 06 - 6”

**Cover Clamps - Peaked Covers**

- **WIDTH**
  - 3” CPS-AC-03-S
  - 4” CPS-AC-04-S
  - 6” CPS-AC-06-S

**Combination Cover Clamp & Hold-Down**

- **CATALOG NO. EA.** HDC-AC

**Phone:** 404-696-8585

---

**CHANNEL COVERS**

**Peaked 20°, Flanged, Solid**

- **COVER SYSTEM:** PFS
- **Material:** ACC (Aluminum Channel Cover)
- **Radius:** 03 - 3”
- **Width:** 04 - 4”
- **Thickness:** 06 - 6”

**Cover Clamps - Peaked Covers**

- **WIDTH**
  - 3” CPS-AC-03-S
  - 4” CPS-AC-04-S
  - 6” CPS-AC-06-S

**Combination Cover Clamp & Hold-Down**

- **CATALOG NO. EA.** HDC-AC

**Phone:** 404-696-8585

---

**CHANNEL COVERS**

**Peaked 20°, Flanged, Solid**

- **COVER SYSTEM:** PFS
- **Material:** ACC (Aluminum Channel Cover)
- **Radius:** 03 - 3”
- **Width:** 04 - 4”
- **Thickness:** 06 - 6”

**Cover Clamps - Peaked Covers**

- **WIDTH**
  - 3” CPS-AC-03-S
  - 4” CPS-AC-04-S
  - 6” CPS-AC-06-S

**Combination Cover Clamp & Hold-Down**

- **CATALOG NO. EA.** HDC-AC

**Phone:** 404-696-8585
### CHANNEL ACCESSORIES

**SUPPORT CLAMPS**
- **Hole sized for 1/2” fasteners**
- **Fasteners ordered separately**

<table>
<thead>
<tr>
<th>CLAMP TYPE</th>
<th>CAT. NO. EACH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hold Down Clamp</td>
<td>HDZ-AC</td>
</tr>
<tr>
<td>Expansion Guide Clamp</td>
<td>HDE-AC</td>
</tr>
</tbody>
</table>

*Optional: For hole sized for 1/4” or 3/8” fasteners, insert catalog number suffix “-14” or “-38”.

**MOUNTING BRACKET**
- **Aluminum**
- **Fasteners included**

**FLOOR BASE PLATE**
- **Aluminum**
- **Fasteners included for Channel attachment only**

**BLIND END**
- **Aluminum**
- **Fasteners included**

### SINGLE HANGER AND WALL BRACKET
- **Aluminum**
- **Hang from 1/4” Threaded Rod or Mount on Wall**
- **Fasteners, Clamps and Rods Not Included**

<table>
<thead>
<tr>
<th>CHANNEL WIDTH</th>
<th>CATALOG NO. (EACH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3” &amp; 4”</td>
<td>ACHS-A-03-04</td>
</tr>
<tr>
<td>6”</td>
<td>ACHS-A-06</td>
</tr>
</tbody>
</table>

**STRUT BRACKET**
- **Aluminum**
- **8” Wide for 3” & 4” Channels**
- **10” Wide for 6” Channels**
- **No Fasteners Included**

<table>
<thead>
<tr>
<th>CHANNEL WIDTH</th>
<th>CATALOG NO. (EACH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3” &amp; 4”</td>
<td>WBC-A-08</td>
</tr>
<tr>
<td>6”</td>
<td>WBC-A-10</td>
</tr>
</tbody>
</table>

**WALL BRACKET**
- **Aluminum**
- **8” Wide for 3” & 4” Channels**
- **10” Wide for 6” Channels**
- **No Fasteners Included**

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<td>6”</td>
<td>WBC-A-10</td>
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</tbody>
</table>

**DOUBLE HANGER**
- **Aluminum**
- **Hang from 1/4” Threaded Rod**
- **Fasteners, Clamps and Rods Not Included**

<table>
<thead>
<tr>
<th>CHANNEL WIDTH</th>
<th>CATALOG NO. (EACH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3”</td>
<td>ACHD-A-03</td>
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<tr>
<td>4”</td>
<td>ACHD-A-04</td>
</tr>
<tr>
<td>6”</td>
<td>ACHD-A-06</td>
</tr>
</tbody>
</table>

**LABELS AND SIGNS FOR TRAYS AND CHANNELS**

**HIGH VOLTAGE LABEL**
- **DANGER**
- **HIGH VOLTAGE KEEP AWAY**
- **WARNING!**
- Do not use as a walkway, ladder or support for personnel. Use only as a mechanical support for cables, tubing, and raceways.

<table>
<thead>
<tr>
<th>CATALOG NO. EACH</th>
<th></th>
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<tbody>
<tr>
<td>HVL-35</td>
<td></td>
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</tbody>
</table>

**PLASTIC WARNING SIGN**
- **WARNING!**
- **WARNING!**
- **WARNING!**
- Do not use as a walkway, ladder or support for personnel. Use only as a mechanical support for cables, tubing, and raceways.
- **WARNING!**
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- Do not use as a walkway, ladder or support for personnel. Use only as a mechanical support for cables, tubing, and raceways.

<table>
<thead>
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<tbody>
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<td>PWS-411</td>
<td></td>
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</tbody>
</table>

*Warning text per NEMA VE1/CSA C22.2 No. 126, Section 6.1.2.f*
- **3-7/8” x 11-3/8” x 1/16” Rigid, engraved plastic, outdoor rated**
- **Heavy-duty adhesive backing (3M 468 MP/200MP Adhesive)**
- **For tray, channel straight sections; Factory-application available**

<table>
<thead>
<tr>
<th>ISO 9001 CERTIFIED</th>
<th>United Structural Products, LLC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone: 404-696-8585</td>
<td></td>
</tr>
</tbody>
</table>

The management system of United Structural Products, LLC is Certified to ISO 9001-2015.