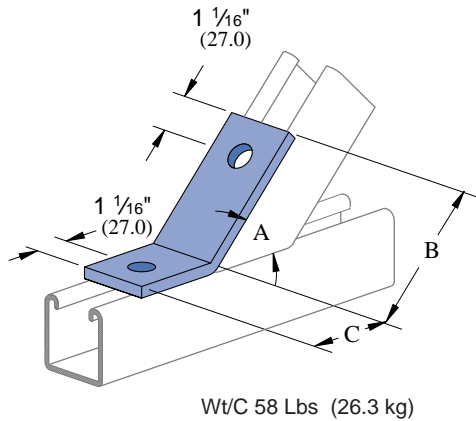


# ANGULAR FITTINGS

FOR 1 5/8" (41 MM) WIDTH SERIES CHANNEL

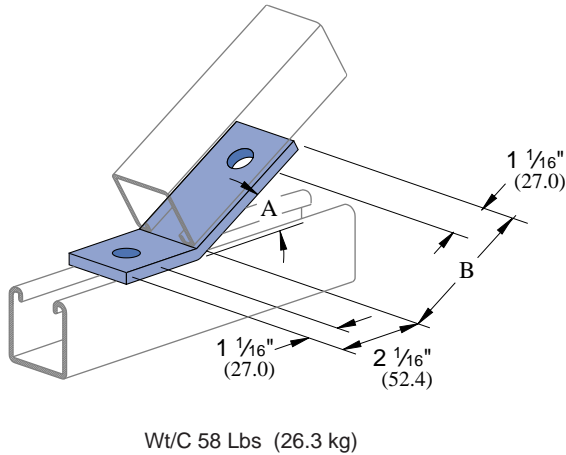


## P1546, P2094 thru P2100



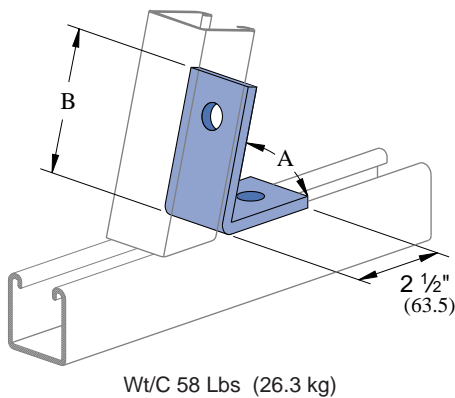
| Part Number | "A"     |     | "B"    |      | "C"     |      |
|-------------|---------|-----|--------|------|---------|------|
|             | Degree  | rad | In     | mm   | In      | mm   |
| P2094       | 82 1/2° | .46 | 3 9/16 | 90.5 | 1 11/16 | 42.9 |
| P2095       | 75°     | .42 | 3 9/16 | 90.5 | 1 11/16 | 42.9 |
| P2096       | 67 1/2° | .38 | 3 1/2  | 88.9 | 1 3/4   | 44.5 |
| P2097       | 60°     | .33 | 3 3/8  | 85.7 | 1 7/8   | 47.6 |
| P2098       | 52 1/2° | .29 | 3 1/4  | 82.6 | 2 1/16  | 52.4 |
| P1546       | 45°     | .25 | 3      | 76.2 | 2 5/16  | 58.7 |
| P2099       | 37 1/2° | .21 | 3 1/2  | 88.9 | 1 13/16 | 46.0 |
| P2100       | 37 1/2° | .21 | 2 1/16 | 68.3 | 2 5/8   | 66.7 |

## P2101 thru P2104



| Part Number | "A"     |     | "B"    |      |
|-------------|---------|-----|--------|------|
|             | Degree  | rad | In     | mm   |
| P2101       | 30°     | .17 | 3 1/4  | 82.6 |
| P2102       | 22 1/2° | .13 | 3 5/16 | 84.1 |
| P2103       | 15°     | .08 | 3 5/16 | 84.1 |
| P2104       | 7 1/2°  | .04 | 3 5/16 | 84.1 |

## P1186, P2105 thru P2110



| Part Number | "A"     |     | "B"    |      |
|-------------|---------|-----|--------|------|
|             | Degree  | rad | In     | mm   |
| P2105       | 82 1/2° | .46 | 3 3/16 | 81.0 |
| P2106       | 75°     | .42 | 3 3/16 | 81.0 |
| P2107       | 67 1/2° | .38 | 3 1/8  | 79.4 |
| P2108       | 60°     | .33 | 3 1/8  | 79.4 |
| P2109       | 52 1/2° | .29 | 3 1/16 | 77.8 |
| P1186       | 45°     | .25 | 3 1/8  | 79.4 |
| P2110       | 37 1/2° | .21 | 3      | 76.2 |

| Hole Size                 | Hole Spacing   | Width             | Thickness      |
|---------------------------|--|-------------------|----------------|
| 9/16" Diameter<br>14.3 mm | 1 9/16" (20.6 mm) From End<br>1 7/8" (47.6 mm) On Center | 1 5/8"<br>41.3 mm | 1/4"<br>6.4 mm |

1 5/8" Channels

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

Electrical Fittings

Concrete Inserts

1/4" Framing System

13/16" Framing System

Spec. Metals & Fiberglass

Index

# GENERAL FITTINGS

FOR 1<sup>5</sup>/<sub>8</sub>" (41 MM) WIDTH SERIES CHANNEL



1<sup>5</sup>/<sub>8</sub>" Channels

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

Electrical Fittings

Concrete Inserts

1<sup>1</sup>/<sub>4</sub>" Framing System

1<sup>3</sup>/<sub>16</sub>" Framing System

Spec. Metals & Fiberglass

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| <b>Ninety Degree Fittings</b>         | <b>86</b>  |
| <b>Angular Fittings</b>               | <b>93</b>  |
| <b>"Z" Shape Fittings</b>             | <b>94</b>  |
| <b>"U" Shape Fittings</b>             | <b>96</b>  |
| <b>Wing Shape Fittings</b>            | <b>101</b> |
| <b>Post Bases</b>                     | <b>105</b> |
| <b>Brackets and Braces</b>            | <b>106</b> |
| <b>Beam Clamps</b>                    | <b>112</b> |
| <b>Trolleys</b>                       | <b>122</b> |
| <b>Special Application Fittings</b>   | <b>124</b> |
| <b>End Caps</b>                       | <b>126</b> |
| <b>Partition and Display Fittings</b> | <b>127</b> |



## MATERIAL

Fittings, unless noted, are made from hot-rolled, pickled and oiled steel plates, strip or coil, and conform to ASTM specifications A575, A576, A635, or A36. The fitting steel also meets the physical requirements of ASTM A570 GR 33. The pickling of the steel produces a smooth surface free from scale.

Many fittings are also available in stainless steel, aluminum and fiberglass. Consult factory for ordering information.

## FINISHES

Fittings are available in: Perma-Green II (GR), electro-galvanized

(EG), conforming to ASTM B633 Type III SC1; Hot-dipped galvanized (HG), conforming to ASTM A123 or A153 and plain (PL).

## APPLICATION

All parts drawings illustrate only one application of each fitting. In most cases many other applications are possible. The channels shown in the illustrations are P1000, 1<sup>5</sup>/<sub>8</sub>" square, except where noted otherwise. All <sup>1</sup>/<sub>16</sub>" diameter holes use 1/2" x <sup>15</sup>/<sub>16</sub>" hex head cap screws and 1/2" nuts - P1010, P4010 or P5510 - depending on the channel used. Nuts and bolts are not included with the fitting and must be ordered separately.

## DESIGN BOLT TORQUE

| BOLT SIZE | 1/4" | 5/16" | 3/8" | 1/2" | 5/8" | 3/4" |
|-----------|------|-------|------|------|------|------|
| FOOT LBS. | 20   | 18    | 16   | 13   | 11   | 10   |
| N·m       | 6    | 11    | 19   | 50   | 100  | 125  |

## DIMENSIONS

Imperial dimensions are illustrated in inches. Metric dimensions are shown in parenthesis or as noted. Unless noted, all metric dimensions are in millimeters and rounded to one decimal place.

## DESIGN LOAD

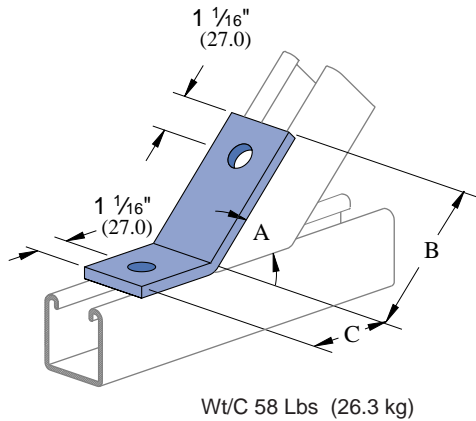
Design load data, where shown, is based on the ultimate strength of the connection with a safety factor of 2.5, unless otherwise noted.

# ANGULAR FITTINGS

FOR 1 5/8" (41 MM) WIDTH SERIES CHANNEL

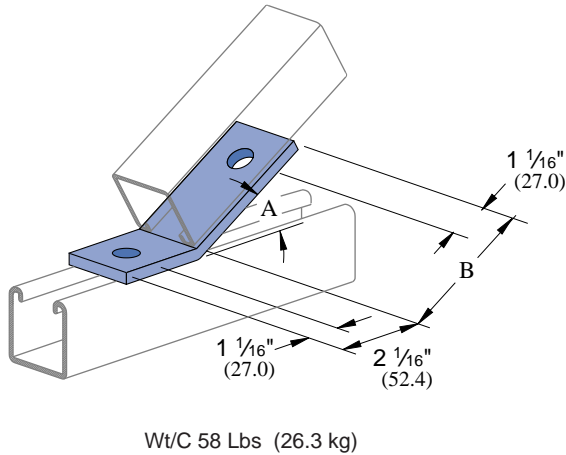


## P1546, P2094 thru P2100



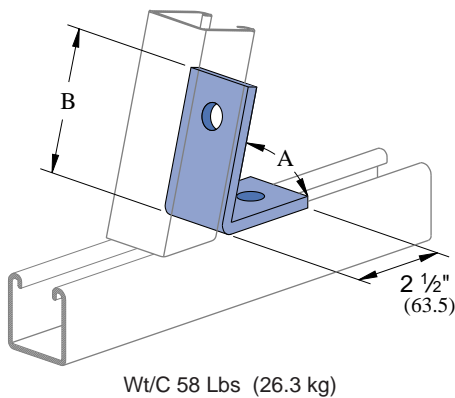
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|-------------|---------|-----|--------|------|---------|------|
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| P1546       | 45°     | .25 | 3      | 76.2 | 2 5/16  | 58.7 |
| P2099       | 37 1/2° | .21 | 3 1/2  | 88.9 | 1 13/16 | 46.0 |
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| Part Number | "A"     |     | "B"    |      |
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| P2102       | 22 1/2° | .13 | 3 5/16 | 84.1 |
| P2103       | 15°     | .08 | 3 5/16 | 84.1 |
| P2104       | 7 1/2°  | .04 | 3 5/16 | 84.1 |

## P1186, P2105 thru P2110



| Part Number | "A"     |     | "B"    |      |
|-------------|---------|-----|--------|------|
|             | Degree  | rad | In     | mm   |
| P2105       | 82 1/2° | .46 | 3 3/16 | 81.0 |
| P2106       | 75°     | .42 | 3 3/16 | 81.0 |
| P2107       | 67 1/2° | .38 | 3 1/8  | 79.4 |
| P2108       | 60°     | .33 | 3 1/8  | 79.4 |
| P2109       | 52 1/2° | .29 | 3 1/16 | 77.8 |
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| Hole Size                 | Hole Spacing   | Width             | Thickness      |
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1 5/8" Channels

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

Electrical Fittings

Concrete Inserts

1 1/4" Framing System

1 3/16" Framing System

Spec. Metals & Fiberglass

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# GENERAL FITTINGS

FOR 1<sup>5</sup>/<sub>8</sub>" (41 MM) WIDTH SERIES CHANNEL



1<sup>5</sup>/<sub>8</sub>"  
Channels

Nuts &  
Hardware

General  
Fittings

Pipe/Conduit  
Supports

Electrical  
Fittings

Concrete  
Inserts

1<sup>1</sup>/<sub>4</sub>" Framing  
System

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|-----------|------|-------|------|------|------|------|
| FOOT LBS. | 20   | 18    | 16   | 13   | 11   | 10   |
| N·m       | 6    | 11    | 19   | 50   | 100  | 125  |
|           | 8    | 15    | 25   | 70   | 135  | 170  |

## DIMENSIONS

Imperial dimensions are illustrated in inches. Metric dimensions are shown in parenthesis or as noted. Unless noted, all metric dimensions are in millimeters and rounded to one decimal place.

## DESIGN LOAD

Design load data, where shown, is based on the ultimate strength of the connection with a safety factor of 2.5, unless otherwise noted.