

MATERIAL:

All fittings are formed in punch press dies from mild, pickled and oiled, bar or strip steel. Plain or electro-galvanized fittings meet the requirements for ASTM A575 and A-576, or ASTM A-36.

STANDARD DIMENSIONS:

Standard dimensions on all fittings are as follows except where otherwise indicated:

Fitting Thickness: 1/4"
Fitting Width: 15/8"
Hole Diameter: 9/16"

Hole Spacing: 17/8" on centers and 13/16" from ends.

STANDARD FINISH:

All fittings are available in painted green or electro-galvanized finish.

ORDERING INFORMATION:

When ordering, add the length or size and finish to the part number.

SET SCREW TORQUE:

BOLT SIZE	1⁄4"-20	⁵ ⁄16 "-18	³%"-16	1⁄2"-13	5%"-11	³⁄4"-10
Set Screw Torque In/Lbs	40	60	125	250	400	665

Note: Caution should be taken not to overtighten the set screw

Finish: Painted Green or Electro-galvanized Order By: No., Size and Finish

CS 619 - Square Washer

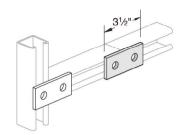


Note: Indicate rod size when ordering. For example, CS 619 ½.

CS 2504 - Guided Square Washer

Rod Size	Hole Size	Wt./100 pcs
1/4"	11/32"	18
3/8"	7/16"	18
1/2"	9/16"	17
5/8"	11/16"	16
3/4"	13/16"	15

CS601 - Two-Hole Splice Plate



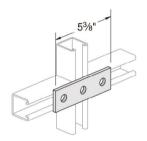
Weight/100 pcs: 38 lbs.

CS 602 – Three-Hole Splice Plate



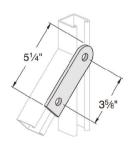
Note: Indicate rod size when ordering. For example, CS 2504 ½.

Rod Size	Hole Size	Wt./100 pcs
1/4"	11/32"	18
3/8"	7/16"	18
1/2"	9/16"	17



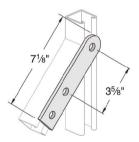
Weight/100 pcs: 50 lbs.

CS 618 - Two-Hole Swivel Plate



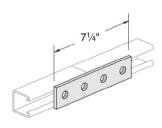
Weight/100 pcs: 55 lbs.

CS 617 - Three-Hole Swivel Plate



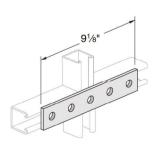
Weight/100 pcs: 75 lbs.

CS 888 - Four-Hole Splice Plate



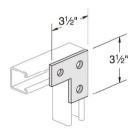
Weight/100 pcs: 78 lbs.

CS 889 - Five-Hole Splice Plate



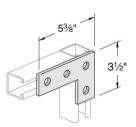
Weight/100 pcs: 94 lbs.

CS 718 - Flat Angle Plate



Weight/100 pcs: 58 lbs.

CS 719 - Flat Angle Plate

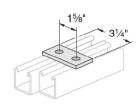


Weight/100 pcs: 80 lbs.

02

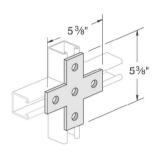
Finish: Painted Green or Electro-galvanized Order By: No., Size and Finish

CS 620 – Two-Hole Connecting Plate



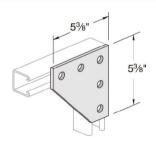
Weight/100 pcs: 35 lbs.

CS 712 - Cross Plate



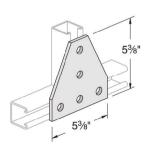
Weight/100 pcs: 105 lbs.

CS 2190 - Flat Corner Connector



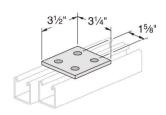
Weight/100 pcs: 150 lbs.

CS 854 - Flat Connector



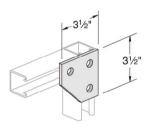
Weight/100 pcs: 148 lbs.

CS 621 – Four-Hole Connecting



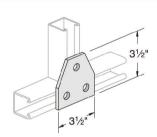
Weight/100 pcs: 73 lbs.

CS 744 - Flat Corner Connector



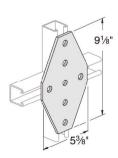
Weight/100 pcs: 70 lbs.

CS 925 – Three-Hole Joint Connector



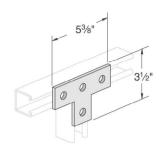
Weight/100 pcs: 70 lbs.

CS 2112 - Cross Connector



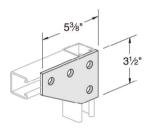
Weight/100 pcs: 240 lbs.

CS 714 - Tee Plate



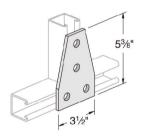
Weight/100 pcs: 80 lbs.

CS 750 – Four-Hole Corner Connector



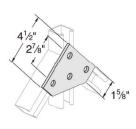
Weight/100 pcs: 105 lbs.

CS 747 – Symmetrical Four-Hole Connector



Weight/100 pcs: 105 lbs.

CS 822 - Double 45° Connector



Weight/100 pcs: 112 lbs.

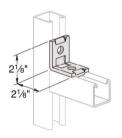
Finish: Painted Green or Electro-galvanized Order By: No., Size and Finish

CS 921 - One-Hole Angle



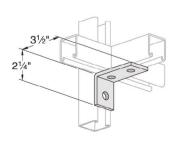
Part No.	L	Wt./100 pcs
CS 921 A	37/8"	61
CS 921 B	57/8"	84
CS 921 C	77/8"	107
CS 921 D	97/8"	130

CS 806 – Self-Aligning Two-Hole Angle



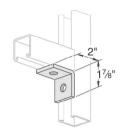
Weight/100 pcs: 40 lbs.

CS 605 - Three-Hole Corner Angle



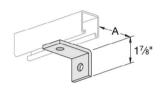
Weight/100 pcs: 58 lbs.

CS 603 - Two-Hole End Angle



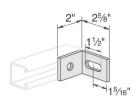
Weight/100 pcs: 38 lbs.

CS 2144 - Corner Angle



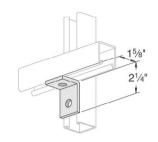
Α	Wt./100 pcs
3"	49
31/2"	54
4"	61

CS 2520 - Slotted 90° Angle



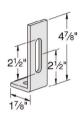
Weight/100 pcs: 42 lbs.

CS 604 - Two-Hole Corner Angle



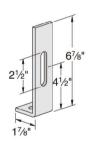
Weight/100 pcs: 38 lbs.

CS 763 - Slotted Adjustment Angle



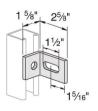
Weight/100 pcs: 65 lbs.

CS 764 - Slotted Adjustment Angle



Weight/100 pcs: 85 lbs.

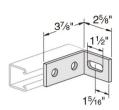
CS 2545 - Slotted 90° Angle



Weight/100 pcs: 38 lbs.

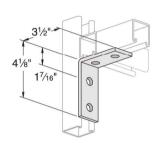
Finish: Painted Green or Electro-galvanized Order By: No., Size and Finish

CS 3049 – Two-Hole Slotted 90° Angle



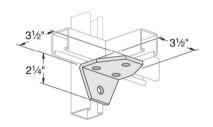
Weight/100 pcs: 66 lbs.

CS 607 - Four-Hole Corner Angle



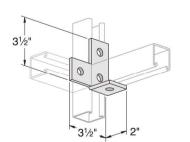
Weight/100 pcs: 78 lbs.

CS 614 – Four-Hole Joint Angle Connector



Weight/100 pcs: 103 lbs.

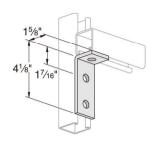
CS 716 R or L - Angle Tee Plate



Note:

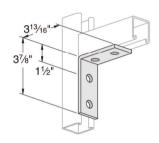
Specify R (Right) or L (Left) Right Hand Illustrated Weight/100 pcs: 80 lbs.

CS 606 - Three-Hole Corner Angle



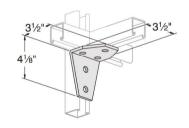
Weight/100 pcs: 58 lbs.

CS 660 - Four-Hole Corner Angle



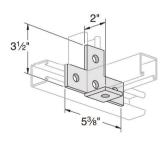
Weight/100 pcs: 78 lbs.

CS 615 – Five-Hole Joint Angle Connector



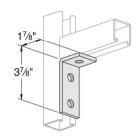
Weight/100 pcs: 135 lbs.

CS 713 - Cross Plate Angle



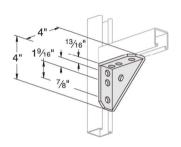
Weight/100 pcs: 105 lbs.

CS 745 - Three-Hole Corner Angle



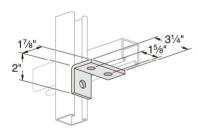
Weight/100 pcs: 58 lbs.

CS 3373 – Universal Corner Connector



Weight/100 pcs: 134 lbs.

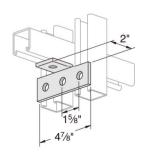
CS 720 R or L – Angle Plate Connector



Note:

Specify R (Right) or L (Left) Right Hand Illustrated
Weight/100 pcs: 55 lbs.

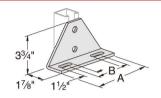
CS 715 - Tee Plate 90° Angle



Weight/100 pcs: 71 lbs.

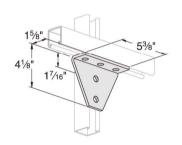
Finish: Painted Green or Electro-galvanized Order By: No., Size and Finish

CS 689A, CS 689B – Double-Slotted Corner Connector



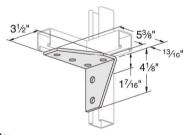
Part No.	A	В	Wt./100 pcs
CS 689 A	65/8"	4"	190
CS 689 B	85/8"	6"	242

CS 927 – Five-Hole Corner Connector



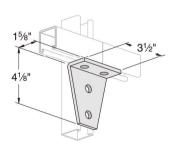
Weight/100 pcs: 154 lbs.

CS 2007 R or L – Six-Hole Corner Connector



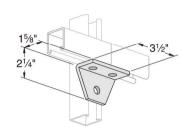
Note: Specify R (Right) or L (Left) Right Hand Illustrated Weight/100 pcs: 160 lbs.

CS 748 – Four-Hole Corner Joint Connector



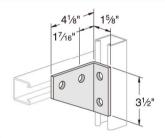
Weight/100 pcs: 105 lbs.

CS 746 – Three-Hole Corner Joint Connector



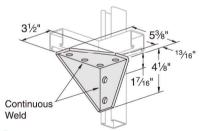
Weight/100 pcs: 70 lbs.

CS 752 R or L – Four-Hole Corner Connector



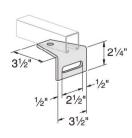
Specify R (Right) or L (Left) Right Hand Illustrated
Weight/100 pcs: 105 lbs.

CS 3326 R or L – Six-Hole Gussetted Corner Connector



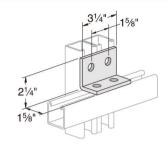
Note: Specify R (Right) or L (Left) Right Hand Illustrated Weight/100 pcs: 230 lbs.

CS 2113 – Slotted Corner Connector



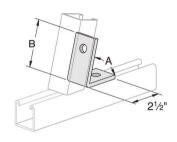
Weight/100 pcs: 97 lbs.

CS 622 – Four-Hole Corner Connector



Weight/100 pcs: 75 lbs.

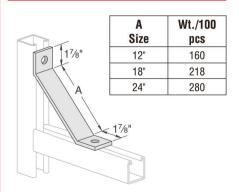
CS 624 – Two-Hole Closed Angle Connector



"B"	"A"
ln.	Angle
3"	37½°
31/8"	45°
31/16"	52½°
31/8"	60°
31/8"	67½°
33/16"	75°
33/16"	82½°

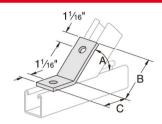
Weight/100 pcs: 58 lbs.

CS 926 - Strut Brace



Finish: Painted Green or Electro-galvanized Order By: No., Size and Finish

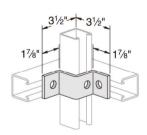
CS 633 – Two-Hole Open Angle Connector



"A" Degree	"B" In.	"C" In.
82½°	39/16"	4117.0
75°	39/16"	1 ¹¹ ⁄ ₁₆ "
67½°	31/2"	13/4"
60°	33/8"	17/8"
52½°	31/4"	21/16"
45°	3"	25/16"
37½°	211/16"	25/8"
30°	31/4"	
22½°	35/16"	014-
15°	35/16"	21/16"
7½°	35/16"	

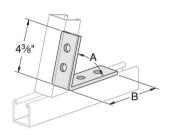
Weight/100 pcs: 58 lbs.

CS 2054 - Corner Connector



Use With: CS 200, CS 210

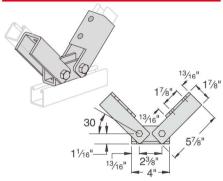
CS 793 – Four-Hole Closed Angle Connector



"A" Angle	"B" In.	
37½°	47/8"	
45°-	4457.11	
52½°	415/16"	
60°	5"	
67½°		
75°	51/16"	
82½°		

Weight/100 pcs: 100 lbs.

CS 9401 - Double Adjustable Brace



Weight/100 pcs: 307 lbs.

Weight/100 pcs: 66 lbs. CS 810 – Diagonal Tube Brace

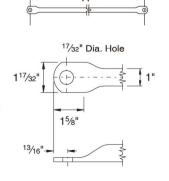


Part No.	A Size	Wt./100 pcs
CS 810 36	3'-0"	205
CS 810 42	3'-6"	237
CS 810 48	4'-0"	270

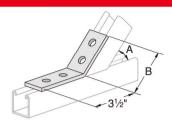
Note:

30° to 60° angle between the brace and channel is recommended for maximum effect.

Material: 1" dia. electric welded tubing Stock Thickness: (.075) 14 ga.



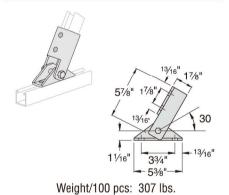
CS 781 – Four-Hole Open Angle Connector



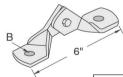
"A"	"B"
Angle	ln.
7½°	
15°	33/4"
22½°	
30°	
37½°	
45°	311/16"
52½°	
60°	
67½°	
75°	35⁄8"
82½°	

Weight/100 pcs: 78 lbs.

CS 9400 - Adjustable Brace



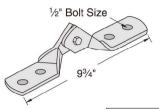
CS 9402 – Two-Hole Hinge Connector



"B" Bolt Size	Wt./100 pcs
1/2"	108
5/8"	107
3/4"	106

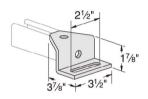
Finish: Painted Green or Electro-galvanized Order By: No., Size and Finish

CS 9404 – Four-Hole Hinge Connector



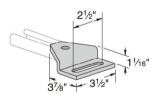
Part No.	Wt./100 pcs	
CS 9404-1/2"	126	

CS 692 - 1%" Offset Zee Connector



Weight/100 pcs: 102 lbs.

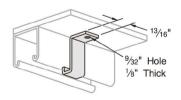
CS 2523 – Offset Adjustable Zee Connector



Use With: CS 500,CS 520, $\&\,\text{CS}$ 560

Weight/100 pcs: 70 lbs.

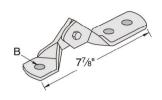
CS 2532 - Shelf Attachment Zee



Stock Thickness: 1/8"
Use With: CS 200,CS 210

Weight/10 0 pcs: 9 lbs.

CS 9403 - Three-Hole Hinge Connector



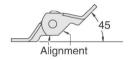
"B" Bolt Size	Wt./100 pcs
1/2"	108
5/8"	107
3/4"	106

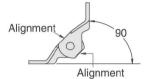
Hinge Connect or Auto-Alignment Guides -

The unique edges of the two hinges have been designed to provide an alignment guide for 0° , 45° and 90° as shown in the drawings below.

This eliminates the need for measuring gages.

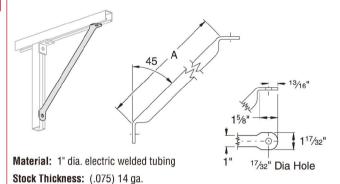






- Each half of the hinge is formed and welded for maximum strength.
- Hinged with Grade 5 bolt for superior strength.
- The nylon insert locknut prevents loosening of the hinge.

CS 812 - 45° Diagonal Tube Brace

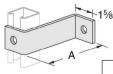


A Size	Wt./100 pcs
12"	88
18"	116
24"	149
30"	181
36"	214

Design Load:

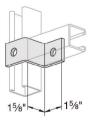
Tension = 300 lbs. Conp. = 1,500 lbs.

CS 3060 - Offset Connector



Α	Wt./100 pcs
4"	81
5"	92
6"	104
7"	115
8"	127

CS 647 - 11/8" Offset Zee Connector

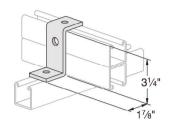


Use With: CS 200,CS 210

Weight/100 pcs: 55 lbs.

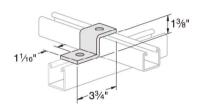
Finish: Painted Green or Electro-galvanized Order By: No., Size and Finish

CS 756 - Zee Support



Use With: CS 100,CS 200 2T3,CS 210 2T3
Weight/100 pcs: 70 lbs.

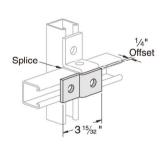
CS 711 - Zee Support



Use With: CS 300

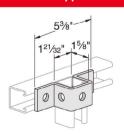
Weight/100 pcs: 53 lbs.

CS 609 – Two-Hole Offset Plate Connector



Weight/100 pcs: 38 lbs.

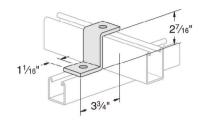
CS 613 - "U" Support



Use With: CS 200, CS 210

Weight/100 pcs: 88 lbs.

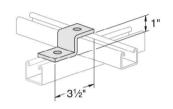
CS 2601 - Zee Support



Use With: CS 150

Weight/100 pcs: 70 lbs.

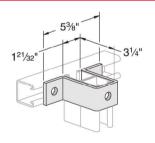
CS 612 - Zee Support



Use With: CS 400

Weight/100 pcs: 47 lbs.

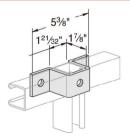
CS 679 - "U" Support



Use With: CS 100, CS 200 2T3, CS 210 2T3

Weight/100 pcs: 128 lbs.

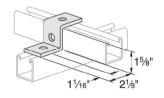
CS 2119 - "U" Support



Use With: CS 200, CS 210

Weight/100 pcs: 95 lbs.

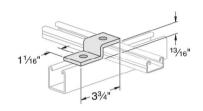
CS 611 - Zee Support



Use With: CS 200,CS 210

Weight/100 pcs: 55 lbs.

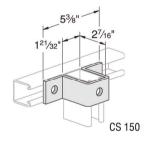
CS 928 - Zee Support



Use With: CS 500,CS 520 and CS 560

Weight/100 pcs: 47 lbs.

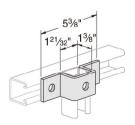
CS 2648 - "U" Support



Use With: CS 150

Weight/100 pcs: 108 lbs.

CS 710 - "U" Support

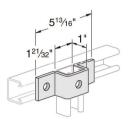


Use With: CS 300

Weight/100 pcs: 84 lbs.

Finish: Painted Green or Electro-galvanized Order By: No., Size and Finish

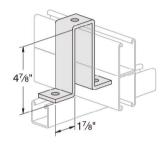
CS 978 - "U" Support



Use With: CS 400

Weight/100 pcs: 71 lbs.

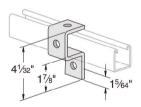
CS 678 - Three-Hole "U" Support



Use With: CS 150 2T3

Weight/100 pcs: 197 lbs.

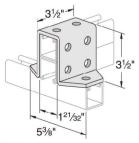
CS 677 – Cup Support for Standard Single Strut



Use With: CS 200, CS 210

Weight/100 pcs: 76 lbs.

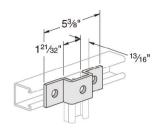
CS 735 - Eight-Hole "U" Support



Use With: CS 200, 2T3

Weight/100 pcs: 257 lbs.

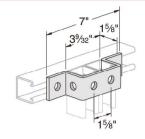
CS 929 - "U" Support



Use With: CS 500, CS 520 and CS 560

Weight/100 pcs: 71 lbs.

CS 721 - "U" Support



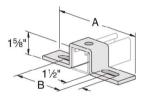
Use With: CS 100, CS 200 2T3, CS 210 2T3

Weight/100 pcs: 105 lbs.

B'

Wt./100

CS 687A, CS 687B & CS 687C - Slotted "U" Support



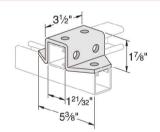
Length No. Length pcs CS 687A 71/4" 41/8" 105 CS 687B 81/2" 120 53/8" CS 687C 103/8" 130 71/4"

'A'

Order

Use With: CS 200, CS 210

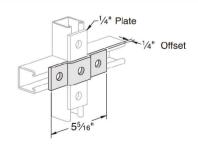
CS 733 - Six-Hole "U" Support



Use With: CS 200, CS 210

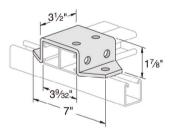
Weight/100 pcs: 171 lbs.

CS 709 – Three-Hole Offset Plate Connection



Weight/100 pcs: 58 lbs.

CS 734 - Eight-Hole "U" Support



Use With: CS 200, 2T3

Weight/100 pcs: 209 lbs.

CS 623 - Saddle Washer



Bolt Size	Wt./100 pcs	
1/4"	14	
3/8"	14	
1/2"	13	
5/8"		
3/4"		

Weight/100 pcs: 265 lbs.

Finish: Painted Green or Electro-galvanized Order By: No., Size and Finish

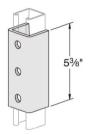
CS 644 - Two-Hole Splice Clevis



Use With: CS 500, CS 520 and CS 560

Weight/100 pcs: 85 lbs.

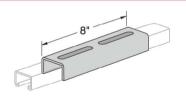
CS 629 - Three-Hole Splice Clevis



Use With: CS 200 and CS 210

Weight/100 pcs: 197 lbs.

CS 804 - Slotted Joiner



Stock Thickness: (.105)

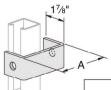
Use With:

CS 400S, CS 500S, CS 520S and CS 560S **Note:** Order CS 6072 screws & CS 6108 nuts

separately

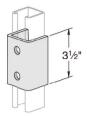
Weight/100 pcs: 80 lbs.

CS 993 - Inside Clevis Hanger



A Size	Wt./100 pcs
4"	78
5"	89
6"	101
7"	112
8"	124

CS 631 - Two-Hole Splice Clevis



Use With: CS 200, CS 210

Weight/100 pcs: 128 lbs.

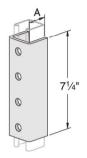
CS 645 - Three-Hole Splice Clevis



Use With: CS 500, CS 520 and CS 560

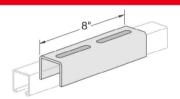
Weight/100 pcs: 130 lbs.

CS 616, CS 646 - Four-Hole Splice Clevis



Part No.	A	For Use With	Wt./100 pcs
CS 616	1 9⁄16"	CS 200, CS 210	265
CS 646	1 3/16"	CS 500, CS 560	176
CS 616-100	33/16"	CS 100	390
CS 616-150	23/8"	CS 150	390

CS 704 - Slotted Joiner



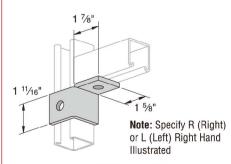
Stock Thickness: (.105)
Use With: CS 200S, CS 210S

Note: Order CS 6072 screws & CS 6108 nuts

separately.

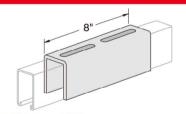
Weight/100 pcs: 197 lbs.

CS 922 R or L – Two-Hole Corner Connector



Weight/100 pcs: 60 lbs.

CS 1004 - Slotted Joiner



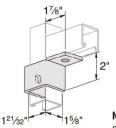
Stock Thickness: (.105)
Use With: CS 150S

Note: Order CS 6072 screws & CS 6108 nuts

separately.

Weight/100 pcs: 140 lbs.

CS 2117 R or L – Wrap-Around Corner Connector



Note: Specify R (Right) or L (Left) Right Hand Illustrated

Weight/100 pcs: 75 lbs.

Finish: Painted Green or Electro-galvanized Order By: No., Size and Finish

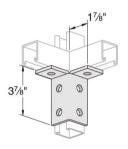
CS 2128 R or L – Four-Hole Corner Connector



Note: Specify R (Right) or L (Left) Right Hand Illustrated

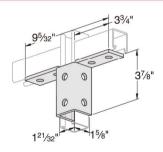
Weight/100 pcs: 119 lbs.

CS 666 – Six-Hole Double Corner Connector



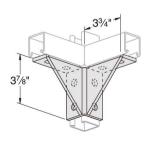
Weight/100 pcs: 115 lbs.

CS 913 – Ten-Hole Double Wing Connector



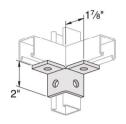
Weight/100 pcs: 193 lbs.

CS 943 – Eight-Hole Gussetted Double Corner Connector



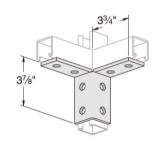
Weight/100 pcs: 217 lbs.

CS 665 – Four-Hole Double Corner Connector



Weight/100 pcs: 76 lbs.

CS 667 – Eight-Hole Double Corner Connector



Weight/100 pcs: 155 lbs.

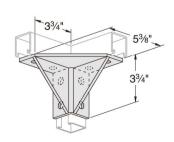
CS 2129 R or L – Single Corner Gussetted Connector



Note: Specify R (Right) or L (Left) Right Hand Illustrated

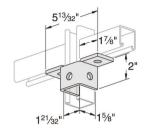
Weight/100 pcs: 176 lbs.

CS 2514 – Eight-Hole Gussetted Double Corner Connector



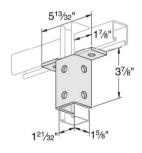
Weight/100 pcs: 315 lbs.

CS 923 – Five-Hole Double Wing Connector



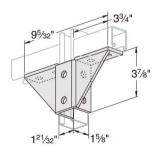
Weight/100 pcs: 93 lbs.

CS 821 – Eight-Hole Double Wing Connector



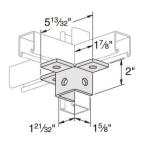
Weight/100 pcs: 150 lbs.

CS 945 – Ten-Hole Gussetted Double Wing Connector



Weight/100 pcs: 274 lbs.

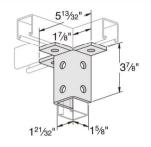
CS 668 – Six-Hole Triple Wing Connector



Weight/100 pcs: 113 lbs.

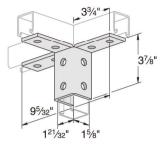
Finish: Painted Green or Electro-galvanized Order By: No., Size and Finish

CS 670 – Nine-Hole Triple Wing Connector



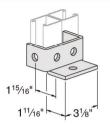
Weight/100 pcs: 177 lbs.

CS 669 – Twelve-Hole Triple Wing Connector



Weight/100 pcs: 230 lbs.

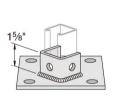
CS 3041 – Double-Column Post Base

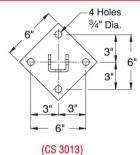


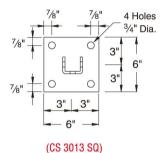
Use With: CS 100, CS 200 2T3, and CS 210 2T3.

Weight/100 pcs: 116 lbs

CS 3013, 3013 SQ - Post Base

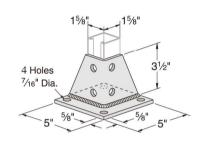






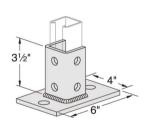
Weight/100 pcs: 307 lbs.

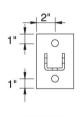
CS 3040 – Post Base



Weight/100 pcs: 297 lbs.

CS 3025, CS 3025 FL - Post Base



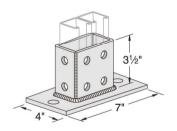


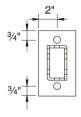
(CS 3025)

2"

(CS 3025 FL)

CS 2064 – Double-Column Post Base

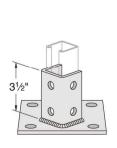


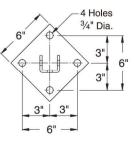


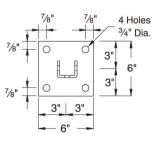
Use With: CS 100, CS 200 2T2, CS 200 2T3, CS 200 2T4 and CS 200 2T5

Weight/100 pcs: 311 lbs.

Weight/100 pcs: 358 lbs. CS 3033, CS 3033 SQ - Post Base







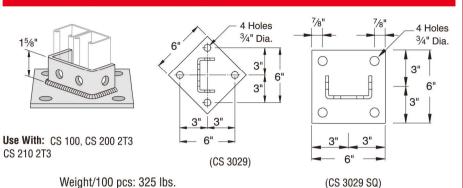
(CS 3033)

(CS 3033 SQ)

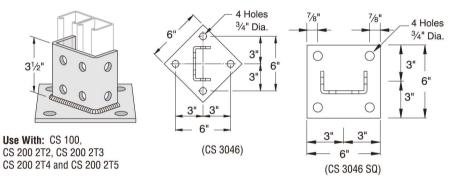
Weight/100 pcs: 373 lbs.

Finish: Painted Green or Electro-galvanized Order By: No., Size and Finish

CS 3029 - Double-Column Post Base

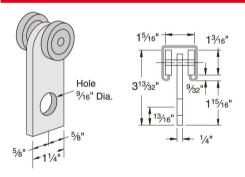


CS 3064 - Double-Column Post Base



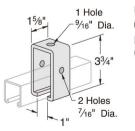
Weight/100 pcs: 408 lbs.

CS 2521 - Two-Wheel Trolley



Weight/100 pcs: 46 lbs.

CS 2528 – Trolley Beam Standard Support



Use With: CS 200, CS 210 Load Rating: 600 lbs.

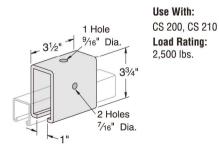
Weight/100 pcs: 102 lbs.

Material: Carbon Steel Wheels have stainless steel ball bearings

Finish: Electro-Galvanized Use With: CS 200 Load Rating: 300 lbs.

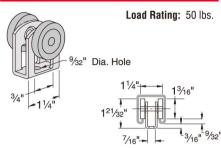
FPM	RPM	Design Load In PS 200 Lbs
180	600	150
90	300	225
30	100	437

CS 2528 1 – Trolley Beam Heavy Support and Track Joiner



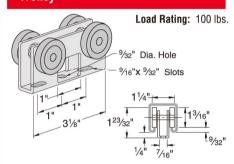
Weight/100 pcs: 220 lbs.

CS 2524 – Two-Bearing Light Duty Trolley



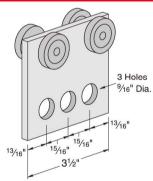
Weight/100 pcs: 21 lbs.

CS 2525 – Four-Bearing Light Duty Trolley



Weight/100 pcs: 55 lbs.

CS 2522 - Four-Wheel Trolley



Material:

Carbon Steel Wheels have stainless

steel ball bearings

Finish: Electro-Galvanized Use With: CS 200 Load Rating: 600 lbs.

FPM	RPM	Design Load In PS 200 Lbs
180	600	300
90	300	450
30	100	600

Weight/100 pcs: 110 lbs.