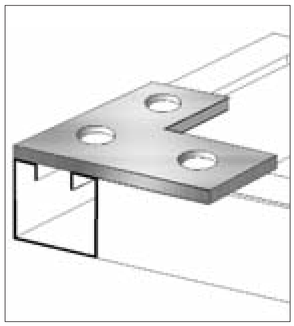
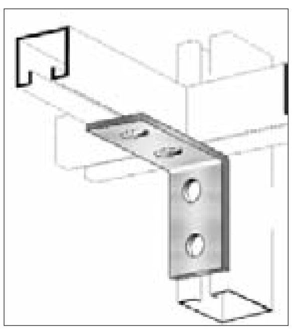
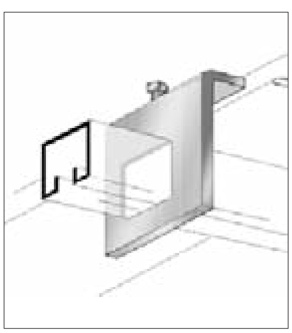
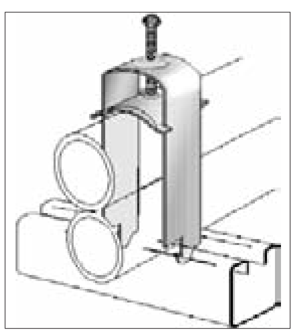
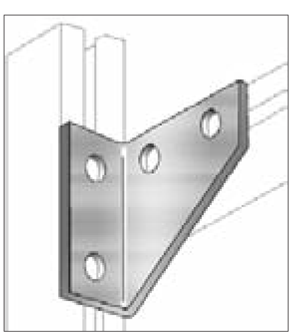
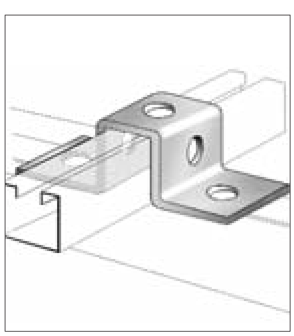
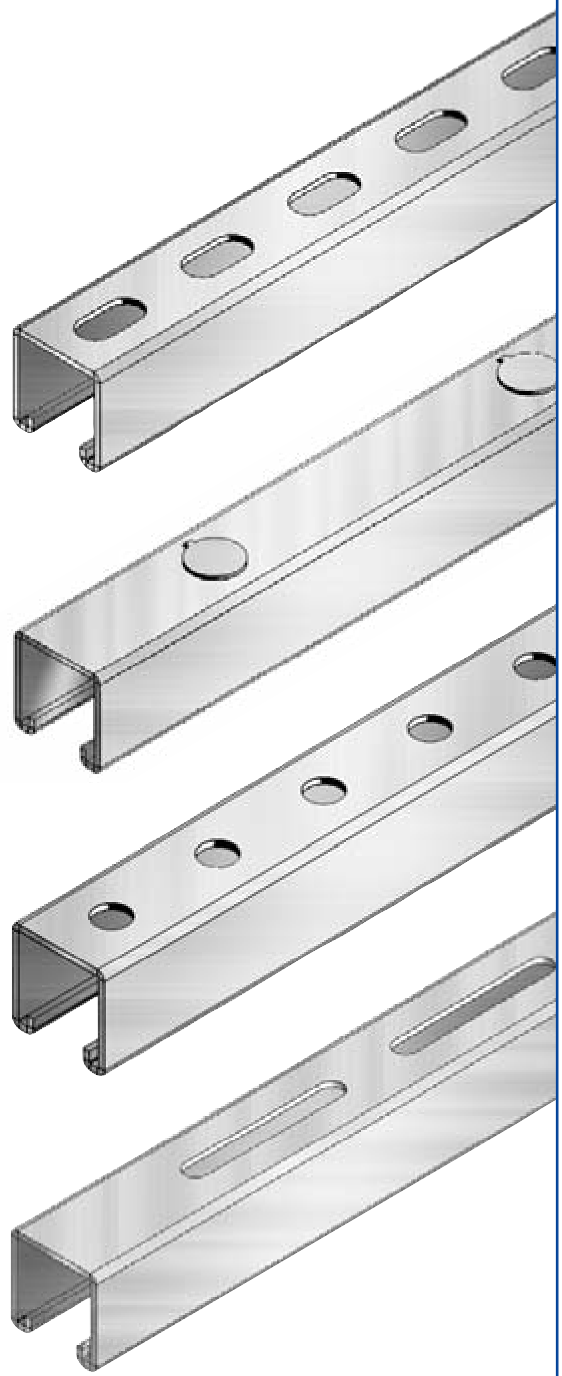
COMSTRUT

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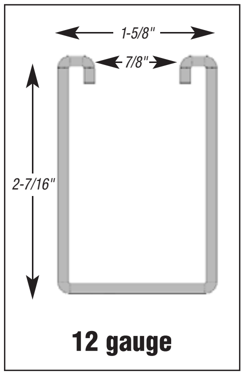
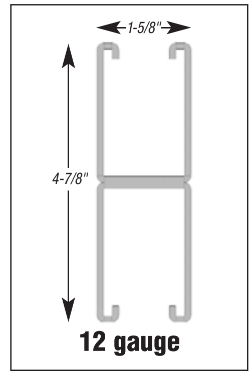


CR150P-10 1-5/8" x 2-7/16" x 10' PG
CR150P-20 1-5/8" x 2-7/16" x 20' PG
CR150B-10 1-5/8" x 2-7/16" x 10' Bare
CR150B-20 1-5/8" x 2-7/16" x 20' Bare
CR150G-10 1-5/8" x 2-7/16" x 10' HDG
CR150G-20 1-5/8" x 2-7/16" x 20' HDG



CR151P-10 1-5/8" x 4-7/8" x 10' B/B PG
CR151P-20 1-5/8" x 4-7/8" x 20' B/B PG
CR151B-10 1-5/8" x 4-7/8" x 10' B/B Bare
CR151B-20 1-5/8" x 4-7/8" x 20' B/B Bare
CR151G-10 1-5/8" x 4-7/8" x 10' B/B HDG
CR151G-20 1-5/8" x 4-7/8" x 20' B/B HDG

Strut
CR150P-10E
1-5/8" x 2-7/16"
Steel with
Elongated Holes
9/16" x 1-1/8"
at 2" centres

Strut
CR150P-10S
1-5/8" x 2-7/16"
Steel with
9/16" x 3" Slots
at 4" centres

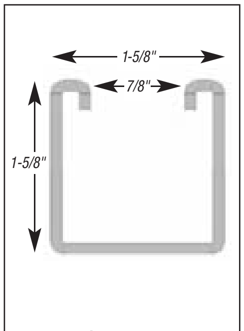
Strut
CR150P-10H
1-5/8" X 2-7/16"
Steel with
9/16" Holes
at 1-7/8" centres

Strut
CR150P-10K
1-5/8" X 2-7/16"
Steel with
1/2 KO's
at 6" Centres

Material:
P = Pregalvanized
B = Bare
G = Hot Dip Galvanized
A = Aluminum
X4 = 304 Stainless
X6 = 316 Stainless

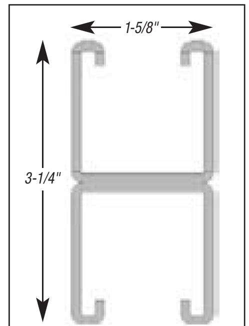
COMSTRUT

Channels CR200 - 201



12 gauge

CR200P-10	1-5/8" x 1-5/8" x 10' PG
CR200P-20	1-5/8" x 1-5/8" x 20' PG
CR200B-10	1-5/8" x 1-5/8" x 10' Bare
CR200B-20	1-5/8" x 1-5/8" x 20' Bare
CR200G-10	1-5/8" x 1-5/8" x 10' HDG
CR200G-20	1-5/8" x 1-5/8" x 20' HDG
CR200A-10	1-5/8" x 1-5/8" x 10' Alum
CR200A-20	1-5/8" x 1-5/8" x 20' Alum
CR200X4-10	1-5/8" x 1-5/8" x 10' 304SS
CR200X4-20	1-5/8" x 1-5/8" x 10' 304SS
CR200X6-10	1-5/8" x 1-5/8" x 10' 316SS
CR200X6-20	1-5/8" x 1-5/8" x 20' 316SS



12 gauge

CR201P-10	1-5/8" x 3-1/4" x 10' B/B PG
CR201P-20	1-5/8" x 3-1/4" x 20' B/B PG
CR201B-10	1-5/8" x 3-1/4" x 10' B/B Bare
CR201B-20	1-5/8" x 3-1/4" x 20' B/B Bare
CR201G-10	1-5/8" x 3-1/4" x 10' B/B HDG
CR201G-20	1-5/8" x 3-1/4" x 20' B/B HDG
CR201A-10	1-5/8" x 3-1/4" x 10' B/B Alum
CR201A-20	1-5/8" x 3-1/4" x 20' B/B Alum
CR201X4-10	1-5/8" x 3-1/4" x 10' B/B 304SS
CR201X4-20	1-5/8" x 3-1/4" x 10' B/B 304SS
CR201X6-10	1-5/8" x 3-1/4" x 10' B/B 316SS
CR201X6-20	1-5/8" x 3-1/4" x 20' B/B 316SS

Strut

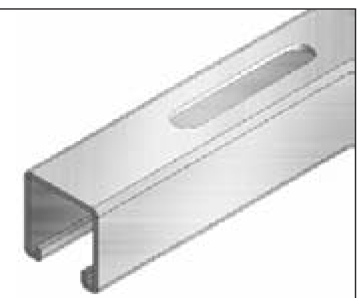
CR200P-10E

1-5/8" x 1-5/8"
Steel/ Aluminium with
Elongated Holes
9/16" x 1-1/8"
at 2" centres

Strut

CR200P-10S

1-5/8" x 1-5/8"
Steel/ Aluminium with
9/16" x 3" Slots
at 4" centres



Strut

CR200P-10H

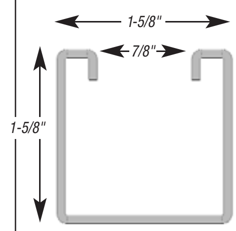
1-5/8" x 1-5/8"
Steel/ Aluminium with
9/16" Holes
at 1-7/8" centres

Strut

CR200P-10K

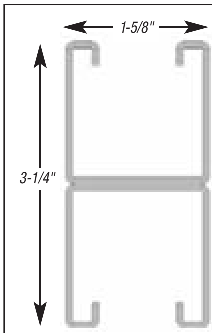
1-5/8" x 1-5/8"
Steel/ Aluminium with
1/2 KO's
at 6" Centres

Material: **P = Pregalvanized**
B = Bare
G = Hot Dip Galvanized
A = Aluminum
X4 = 304 Stainless
X6 = 316 Stainless



14 gauge

CR220P-10	1-5/8" x 1-5/8" x 10' PG
CR220P-20	1-5/8" x 1-5/8" x 20' PG
CR220B-10	1-5/8" x 1-5/8" x 10' Bare
CR220B-20	1-5/8" x 1-5/8" x 20' Bare
CR220G-10	1-5/8" x 1-5/8" x 10' HDG
CR220G-20	1-5/8" x 1-5/8" x 20' HDG



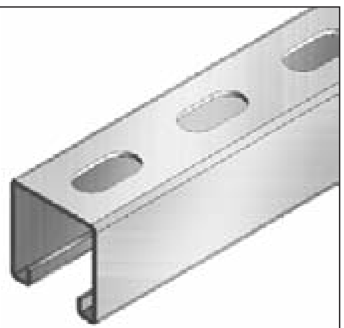
14 gauge

CR221P-10	1-5/8" x 3-1/4" x 10' B/B PG
CR221P-20	1-5/8" x 3-1/4" x 20' B/B PG
CR221B-10	1-5/8" x 3-1/4" x 10' B/B Bare
CR221B-20	1-5/8" x 3-1/4" x 20' B/B Bare
CR221G-10	1-5/8" x 3-1/4" x 10' B/B HDG
CR221G-20	1-5/8" x 3-1/4" x 20' B/B HDG

Strut

CR220P-10E

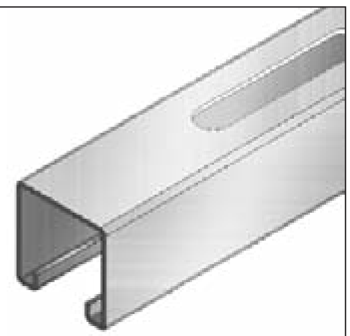
1-5/8" x 1-5/8"
Steel, 14GA
with Elongated Holes
9/16" x 1-1/8"
at 2" centres



Strut

CR220P-10S

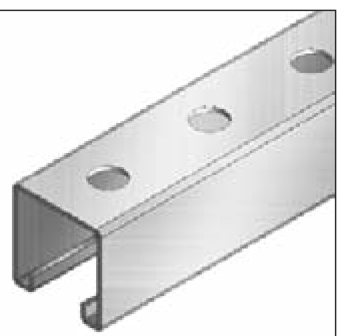
1-5/8" x 1-5/8"
Steel, 14GA
with 9/16" x 3" Slots
at 4" centres



Strut

CR220P-10H

1-5/8" x 1-5/8"
Steel, 14GA
with 9/16" Holes
at 1-7/8" centres

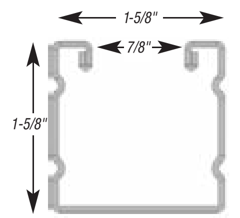


Strut

CR220P-10K

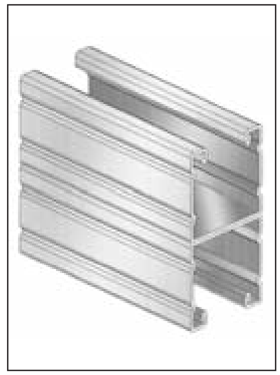
1-5/8" x 1-5/8"
Steel, 14GA
with-1/2 KO's
at 6" Centres

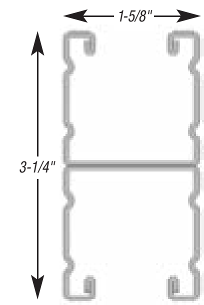
Material:	**P = Pregalvanized**	**A = Aluminum**
	B = Bare	**X4 = 304 Stainless**
	G = Hot Dip Galvanized	**X6 = 316 Stainless**



16 gauge

CR210P-10	1-5/8" x 1-5/8" x 10' PG
CR210P-20	1-5/8" x 1-5/8" x 20' PG
CR210B-10	1-5/8" x 1-5/8" x 10' Bare
CR210B-20	1-5/8" x 1-5/8" x 20' Bare
CR210G-10	1-5/8" x 1-5/8" x 10' HDG
CR210G-20	1-5/8" x 1-5/8" x 20' HDG





16 gauge

CR211P-10	1-5/8" x 3-1/4" x 10' B/B PG
CR211P-20	1-5/8" x 3-1/4" x 20' B/B PG
CR211B-10	1-5/8" x 3-1/4" x 10' B/B Bare
CR211B-20	1-5/8" x 3-1/4" x 20' B/B Bare
CR211G-10	1-5/8" x 3-1/4" x 10' B/B HDG
CR211G-20	1-5/8" x 3-1/4" x 20' B/B HDG

Strut

CR210P-10E

1-5/8" x 1-5/8"
Steel, 16GA
with Elongated Holes
9/16" x 1-1/8"
at 2" centres

Strut

CR210P-10S

1-5/8" x 1-5/8"
Steel, 16GA
with 9/16" x 3" Slots
at 4" centres

Strut

CR210P-10H

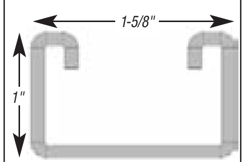
1-5/8" X 1-5/8"
Steel, 16GA
with 9/16" Holes
at 1-7/8" centres

Strut

CR210P-10K

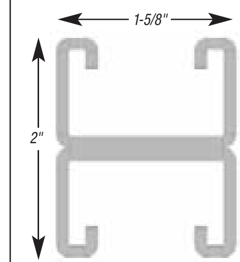
1-5/8" X 1-5/8"
Steel, 16GA
with 1/2 KO's
at 6" Centres

Material:	**P = Pregalvanized**	**A = Aluminum**
	B = Bare	**X4 = 304 Stainless**
	G = Hot Dip Galvanized	**X6 = 316 Stainless**



12 gauge

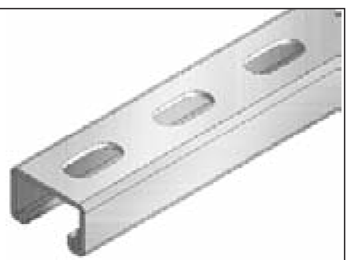
CR400P-10 1-5/8" x 1" x 10' PG
CR400P-20 1-5/8" x 1" x 20' PG
CR400B-10 1-5/8" x 1" x 10' Bare
CR400B-20 1-5/8" x 1" x 20' Bare
CR400G-10 1-5/8" x 1" x 10' HDG
CR400G-20 1-5/8" x 1" x 20' HDG
CR400A-10 1-5/8" x 1" x 10' Alum
CR400A-20 1-5/8" x 1" x 20' Alum
CR400X4-10 1-5/8" x 1" x 10' 304SS



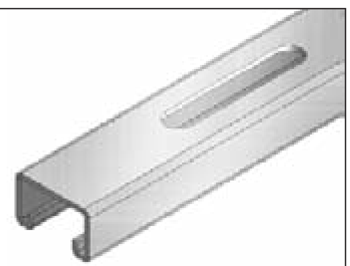
12 gauge

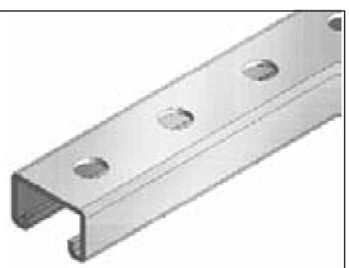
CR401P-10 1-5/8" x 2" x 10' B/B PG
CR401P-20 1-5/8" x 2" x 20' B/B PG
CR401B-10 1-5/8" x 2" x 10' B/B Bare
CR401B-20 1-5/8" x 2" x 20' B/B Bare
CR401G-10 1-5/8" x 2" x 10' B/B HDG
CR401G-20 1-5/8" x 2" x 20' B/B HDG
CR401A-10 1-5/8" x 2" x 10' B/B Alum
CR401A-20 1-5/8" x 2" x 20' B/B Alum
CR401X4-10 1-5/8" x 2" x 10' 304SS

Strut
CR400P-10E
1-5/8" 1 1"
Steel/ Aluminium with
Elongated Holes
9/16" x 1-1/8"
at 2" centres

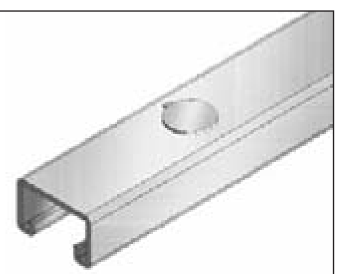


Strut
CR400P-10S
1-5/8" X 1"
Steel/ Aluminium with
9/16" x 3" Slots
at 4" centres





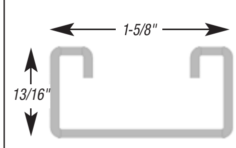
Strut
CR400P-10H
1-5/8" X 1"Steel/ Aluminium with
9/16" Holes
at 1-7/8" centres



Strut
CR400P-10K
1-5/8" X 1"
Steel/ Aluminium with
1/2 KO's
at 6" Centres

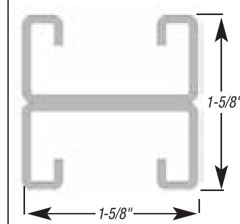
Material:	**P = Pregalvanized**	**A = Aluminum**
	B = Bare	**X4 = 304 Stainless**
	G = Hot Dip Galvanized	**X6 = 316 Stainless**

Channels CR500 - 501



14 gauge

CR500P-10	1-5/8" x 13/16" x 10' PG
CR500P-20	1-5/8" x 13/16" x 20' PG
CR500B-10	1-5/8" x 13/16" x 10' Bare
CR500B-20	1-5/8" x 13/16" x 20' Bare
CR500G-10	1-5/8" x 13/16" x 10' HDG
CR500G-20	1-5/8" x 13/16" x 20' HDG



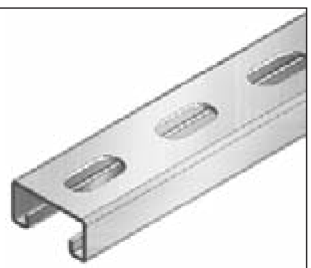
14 gauge

CR501P-10	1-5/8" x 1-5/8" x 10' B/B PG
CR501P-20	1-5/8" x 1-5/8" x 20' B/B PG
CR501B-10	1-5/8" x 1-5/8" x 10' B/B Bare
CR501B-20	1-5/8" x 1-5/8" x 20' B/B Bare
CR501G-10	1-5/8" x 1-5/8" x 10' B/B HDG
CR501G-20	1-5/8" x 1-5/8" x 20' B/B HDG

Strut

CR500P-10E

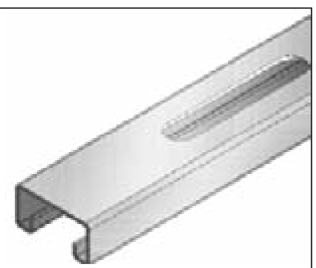
1-5/8" x 13/16"
Steel with
Elongated Holes
9/16" x 1-1/8"
at 2" centres



Strut

CR500P-10S

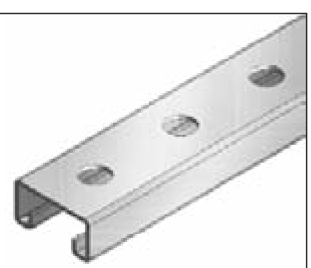
1-5/8" x 13/16"
Steel with
9/16" x 3" Slots
at 4" centres



Strut

CR500P-10H

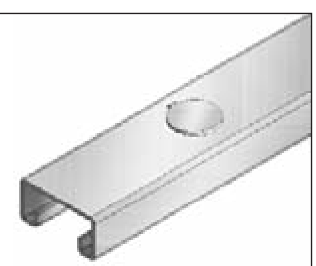
1-5/8" x 13/16"
Steel with
9/16" Holes
at 1-7/8" centres



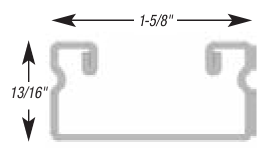
Strut

CR500P-10K

1-5/8" x 13/16"
Steel with
1/2 KO's
at 6" Centres

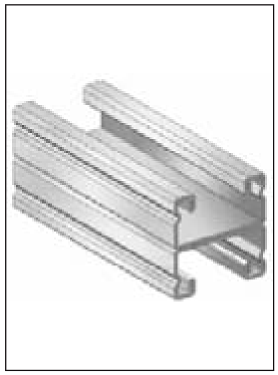


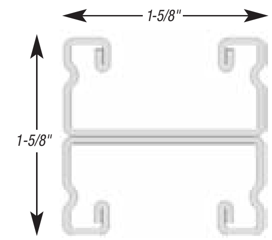
Material:	**P = Pregalvanized**	**A = Aluminum**
	B = Bare	**X4 = 304 Stainless**
	G = Hot Dip Galvanized	**X6 = 316 Stainless**



16 gauge

CR510P-10	1-5/8" x 13/16" x 10' PG
CR510P-20	1-5/8" x 13/16" x 20' PG
CR510B-10	1-5/8" x 13/16" x 10' Bare
CR510B-20	1-5/8" x 13/16" x 20' Bare
CR510G-10	1-5/8" x 13/16" x 10' HDG
CR510G-20	1-5/8" x 13/16" x 20' HDG





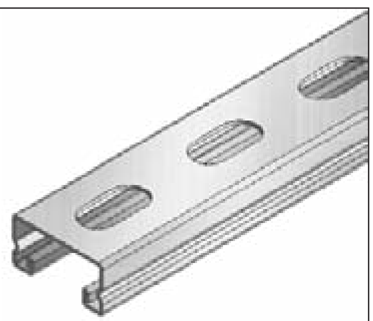
16 gauge

CR511P-10	1-5/8" x 1-5/8" x 10' B/B PG
CR511P-20	1-5/8" x 1-5/8" x 20' B/B PG
CR511B-10	1-5/8" x 1-5/8" x 10' B/B Bare
CR511B-20	1-5/8" x 1-5/8" x 20' B/B Bare
CR511G-10	1-5/8" x 1-5/8" x 10' B/B HDG
CR511G-20	1-5/8" x 1-5/8" x 20' B/B HDG

Strut

CR510P-10E

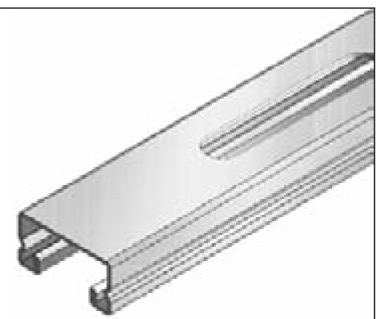
1-5/8" X 13/16"
Steel, 16GA
with Elongated Holes
9/16" x 1-1/8"
at 2" centres



Strut

CR510P-10S

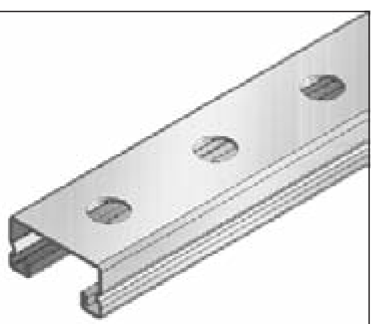
1-5/8" X 13/16"
Steel, 16GA
with 9/16" x 3" Slots
at 4" centres



Strut

CR510P-10H

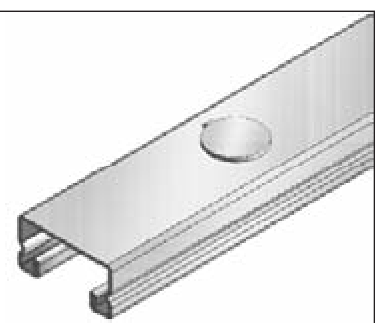
1-5/8" X 13/16"
Steel, 16GA
with 9/16" Holes
at 1-7/8" centres



Strut

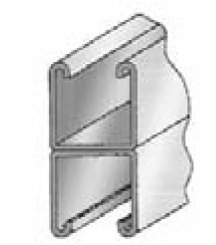
CR510P-10K

1-5/8" X 13/16"
Steel, 16GA
with 1/2 KO's
at 6" Centres

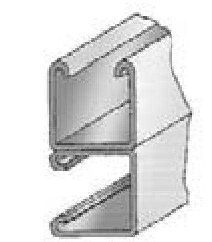


Material:		
	P = Pregalvanized	**A = Aluminum**
	B = Bare	**X4 = 304 Stainless**
	G = Hot Dip Galvanized	**X6 = 316 Stainless**

CR201

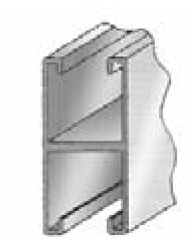


CR204

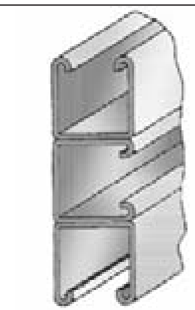


CR201A

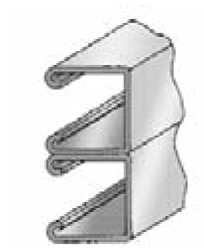
Extruded Aluminum



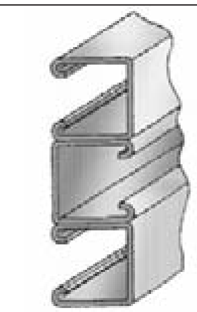
CR205



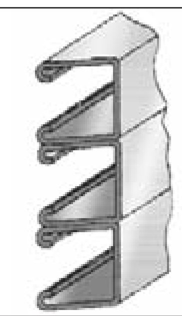
CR202



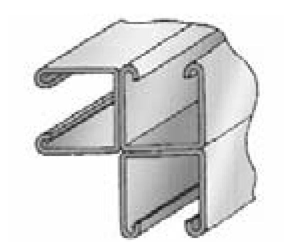
CR206



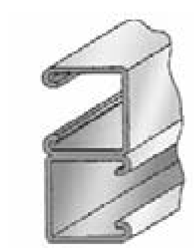
CR202T



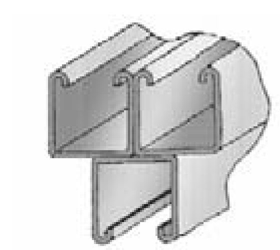
CR207



CR203



CR208



ALL COMSTRUT CHANNELS ARE AVAILABLE IN A VARIETY OF COMBINATIONS

COMSTRUT concrete inserts provide unlimited advantages when installed as an integral part of any concrete structure. With removal of the forms a continuous slot insert is available for the suspension or securing of electrical systems. Their greatest asset is in eliminating the necessity of drilling or punching holes to secure suspension anchors and the possible relocation cost.

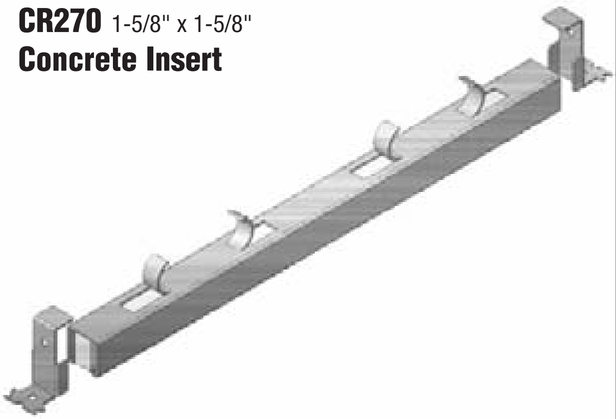
Load Capacity

The load bearing characteristics of COMSTRUT concrete inserts are influenced by the strength of the concrete and the location of the insert relative to the reinforcing steel. The load for 1-5/8" x 1-5/8" is 2000 lb. per ft. The load for 1-5/8" x 1" is 1500 lb. per foot.

COMSTRUT Insert Filler

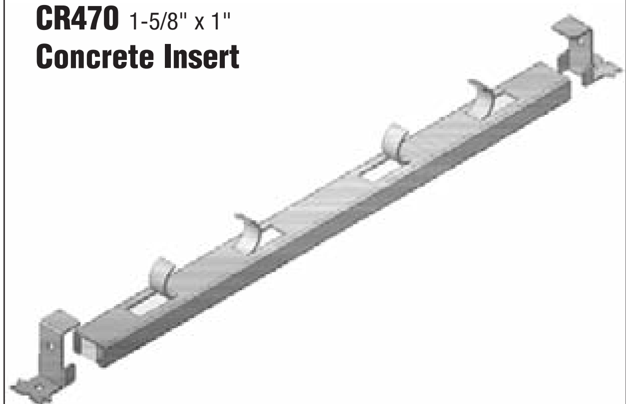
The factory-installed foam filler prevents the wet concrete from blocking the channel section. Easily removed, it is resistant to the elements and may be left in place if desired.

CR270 1-5/8" x 1-5/8" Concrete Insert



Part Number	Length (In.)	Part Number	Length (In.)
CR270P-012	12	CR270P-048	48
CR270P-018	18	CR270P-060	60
CR270P-024	24	CR270P-10	120
CR270P-030	30	CR270P-20	240
CR270P-036	36		

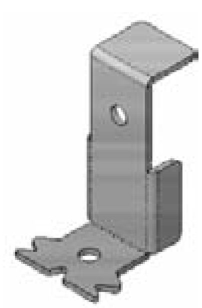
CR470 1-5/8" x 1" Concrete Insert



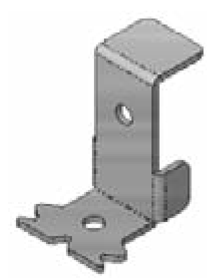
Part Number	Length (In.)	Part Number	Length (In.)
CR470P-012	12	CR470P-048	48
CR470P-018	18	CR470P-060	60
CR470P-024	24	CR470P-10	120
CR470P-030	30	CR470P-20	240
CR470P-036	36		

Anchor Cap

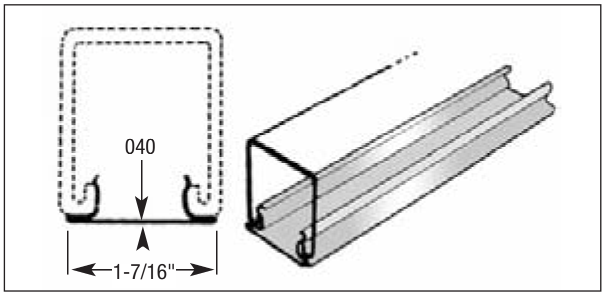
By using an anchor cap, concrete spot inserts can be fabricated on site from odd pieces of channel.



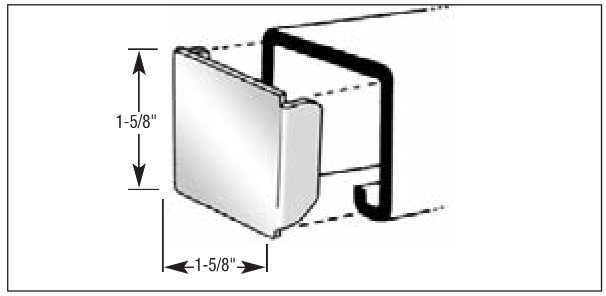
CRM52
Anchor Cap
1-5/8" x 1-5/8" strut



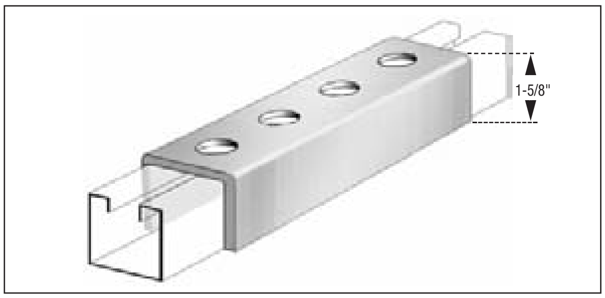
CRM54
Anchor Cap
for 1" x 1-5/8" strut



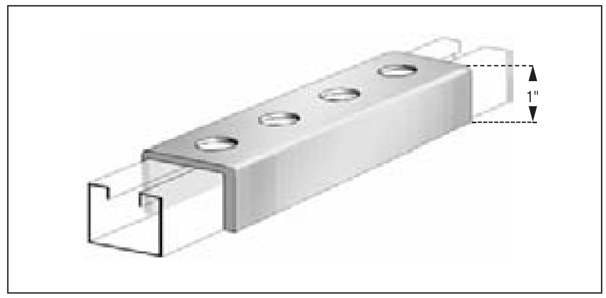
CR707P-10 Closure Strip Pregalvanized
CR707A-10 Closure Strip Aluminum
CR707PL-10 Closure Strip Black Plastic



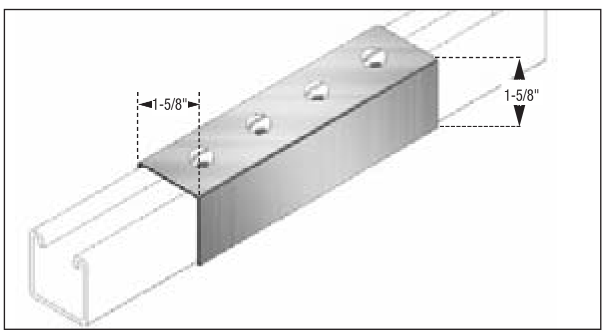
CR654 2-7/16" Strut End Cap
CR655 1-5/8" Strut End Cap
CR656 1" Strut End Cap
CR657 13/16" Strut End Cap



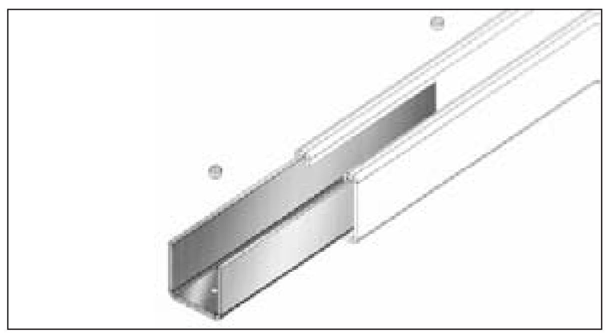
CR616 1-5/8" Four Hole Clevis Splice
Wt/C: 265 lb. (120.2 kg)



CR646 1" Four Hole Clevis Splice
Wt/C: 176 lb. (79.8 kg)



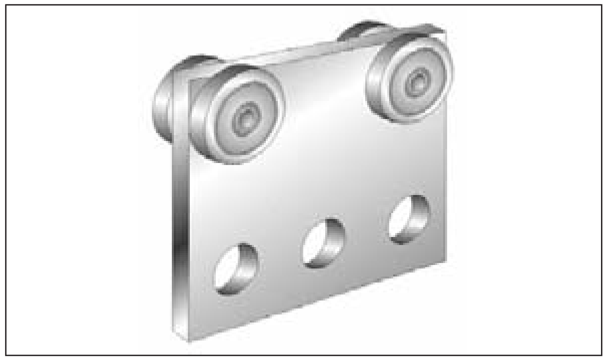
CR649 Light Duty Splice
Four Hole Raceway Splice Plate, c/w HDWE



CR643 Internal Splice

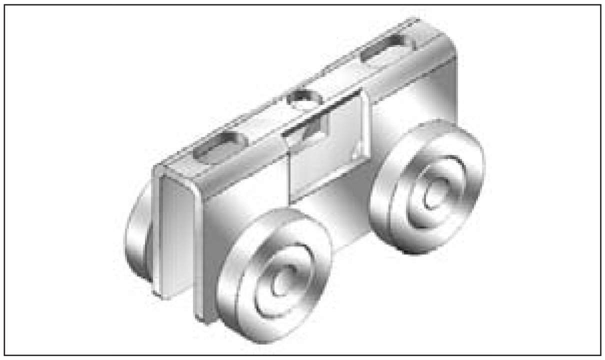
CR2521 Two Wheel Plate Trolley

Wt.C: 46 lb. (20.9 kg)

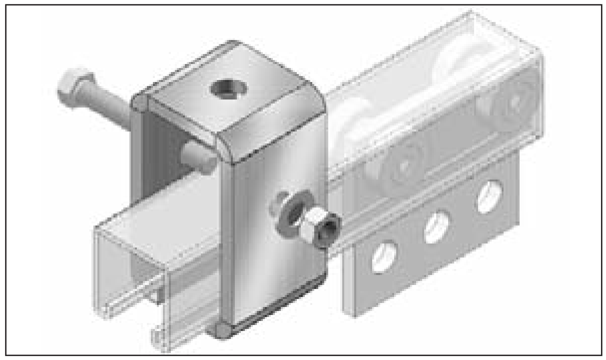


CR2522 Four Wheel Plate Trolley

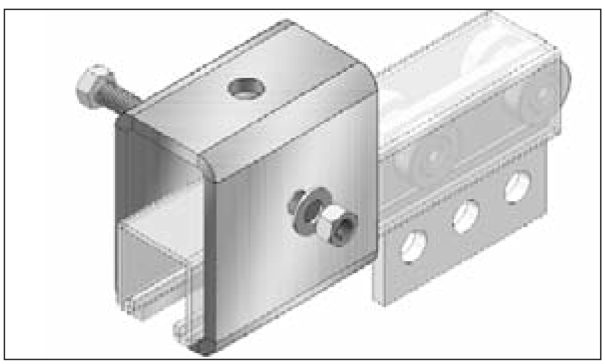
Wt.C: 110 lb. (49.9 kg)



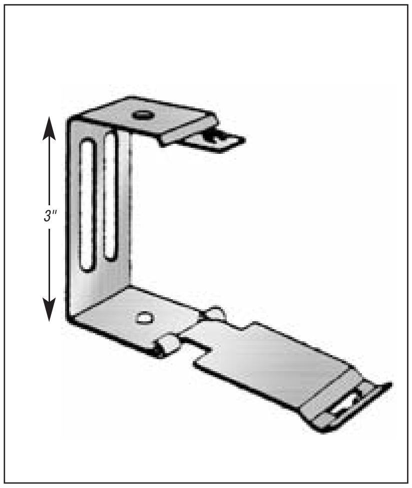
CR2524 Four Wheel U-Body Trolley



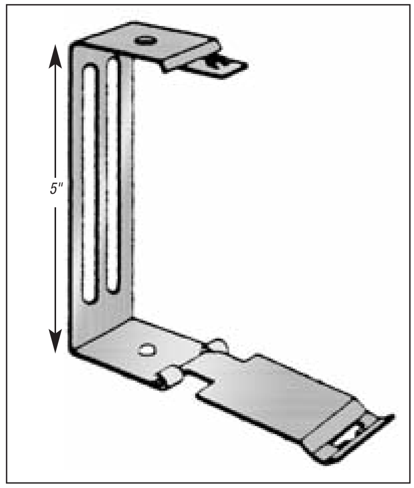
CR2528 Channel Trolley Support/Splice



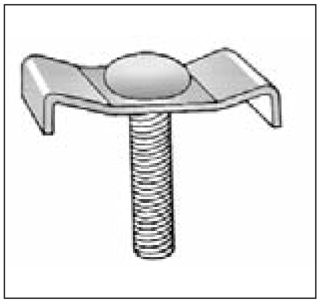
CR2529 Channel Trolley Support/Splice



CR2632
Channel Hanger

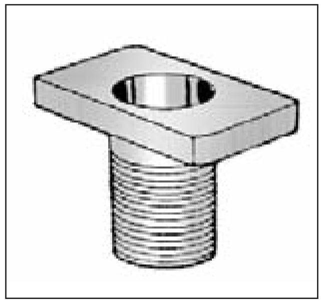


CR2633
Channel Hanger



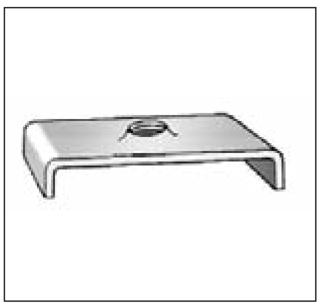
CR2636
Fixture Stud Nut

.038 lb.

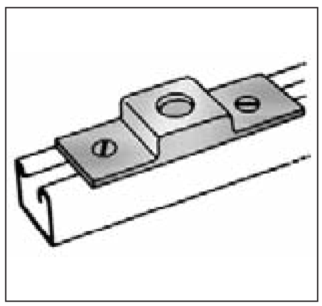


CR2625
Wiring Stud

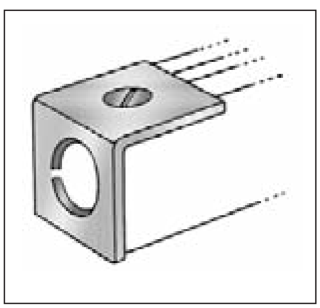
.054 lb.



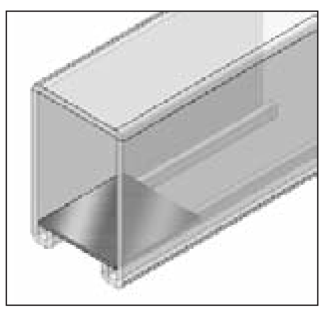
CR2637
Fixture Nut
.020 lb.



CR2560-50 (1/2")
CR2560-75 (3/4")
Conduit Connector



CR2511-50 c/w 1/2" K/O
CR2511-75 c/w-3/4" K/O
End Caps with Knock-out



CR2640 Wire Retainer

Material

Strut clamping nuts are cold formed from mild steel stock to produce a nut of greater strength and holding power. Two grooves in the nut are formed, each with teeth. These teeth bite into the square, full area, inturned edges of the Comstrut channel, giving greater resistance to slippage. CR200 Strut clamping nuts have tremendous resistance to pull-out from the CR200 channel due to the type of steel and design used.

Standard Finish: Zinc Plated.

For use with CR150 to CR400 Series Channels

Spring Nut with Long Spring

PART ID	DESCRIPTION
CR6L	SPRING NUT LONG 1/4-20 ZP
CR8L	SPRING NUT LONG 3/8-16 ZP
CR10L	SPRING NUT LONG 1/2-13 ZP

Suffix with "–X6" for Stainless

For use with CR200 to CR500 Series Channels

Spring Nut with Regular Spring

PART ID	DESCRIPTION
CR6R	SPRING NUT REGULAR 1/4-20 ZP
CR8R	SPRING NUT REGULAR 3/8-16 ZP
CR10R	SPRING NUT REGULAR 1/2-13 ZP

For use with CR200 to CR500 Series Channels

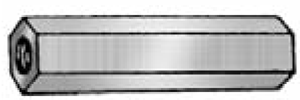
Spring Nut with Short Spring

PART ID	DESCRIPTION
CR6S	SPRING NUT SHORT 1/4-20 ZP
CR8S	SPRING NUT SHORT 3/8-16 ZP
CR10S	SPRING NUT SHORT 1/2-13 ZP

For use with 1-5/8" wide CR200 to CR500 Strut Channels

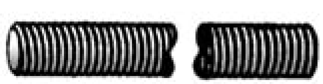
Clamping Nut without Spring

PART ID	DESCRIPTION
CR6N	CLAMPING NUT 1/4-20 NO SPRING ZP
CR8N	CLAMPING NUT 3/8-16 NO SPRING ZP
CR10N	CLAMPING NUT 1/2-13 NO SPRING ZP



Rod Coupler

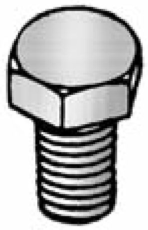
PART ID	DESCRIPTION
CR2645-1-4	ROD COUPLER 1/4-20 ZP
CR2645-3-8	ROD COUPLER 3/8-16 ZP
CR2645-1-2	ROD COUPLER 1/2-13 ZP



Continuous Threaded Hanger Rod

PART ID	DESCRIPTION
CR2643-1-4	THREADED ROD 1/4-20 x 10 FT ZP
CR2643-3-8	THREADED ROD 3/8-16 x 10 FT ZP
CR2643-1-2	THREADED ROD 1/2-13 x 10 FT ZP

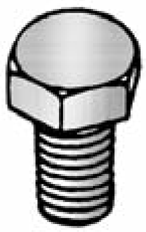
FOR OTHER SIZES OR FINISHES PLEASE CONTACT FACTORY



Hex Head Bolt
1/4-20 Thread

Hex Head Bolts 1/4-20

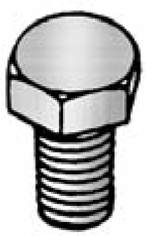
PART ID	DESCRIPTION
CR6025	HEX BOLT 1/4-20 x 3/4 ZP
CR6026	HEX BOLT 1/4-20 x 1 ZP
CR6027	HEX BOLT 1/4-20 x 1-1/4 ZP
CR6028	HEX BOLT 1/4-20 x 1-1/2 ZP
CR6029	HEX BOLT 1/4-20 x 2 ZP



Hex Head Bolt
3/8-16 Thread

Hex Head Bolts 3/8-16

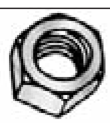
PART ID	DESCRIPTION
CR6035	HEX BOLT 3/8-16 x 3/4 ZP
CR6036	HEX BOLT 3/8-16 x 1 ZP
CR6037	HEX BOLT 3/8-16 x 1-1/4 ZP
CR6038	HEX BOLT 3/8-16 x 1-1/2 ZP
CR6039	HEX BOLT 3/8-16 x 2 ZP



Hex Head Bolt
1/2-13 Thread

Hex Head Bolts 1/2-13

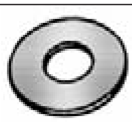
PART ID	DESCRIPTION
CR6045	HEX BOLT 1/2-13 x 3/4 ZP
CR6046	HEX BOLT 1/2-13 x 1 ZP
CR6047	HEX BOLT 1/2-13 x 1-1/4 ZP
CR6048	HEX BOLT 1/2-13 x 1-1/2 ZP
CR6049	HEX BOLT 1/2-13 x 2 ZP



Hex Nut

Hex Nuts

PART ID	DESCRIPTION
CR6113	HEX NUT 1/4-20 ZP
CR6115	HEX NUT 3/8-16 ZP
CR6117	HEX NUT 1/2-13 ZP



Flat Washer

Flat Washer

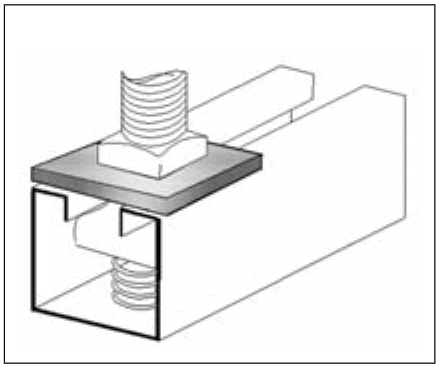
PART ID	DESCRIPTION
CR6120	FLAT WASHER 1/4 ZP
CR6122	FLAT WASHER 3/8 ZP
CR6124	FLAT WASHER 1/2 ZP

Lock Washer

Lock Washer

PART ID	DESCRIPTION
CR6104	LOCK WASHER 1/4 ZP
CR6106	LOCK WASHER 3/8 ZP
CR6107	LOCK WASHER 1/2 ZP

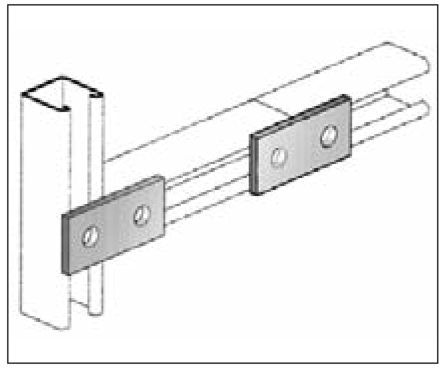
FOR OTHER SIZES OR FINISHES PLEASE CONTACT FACTORY



CR619 1/4"
CR620 3/8"
CR621 1/2"
CR622 5/8"

Square Washer

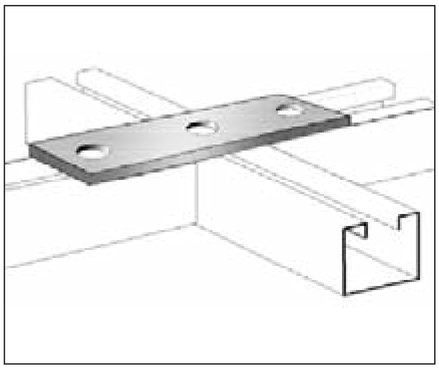
Wt/C:
17.6 lb. (7.7 kg)



CR601

Two Hole Splice Plate

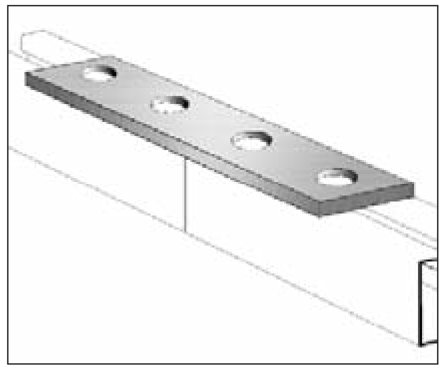
Wt/C:
38 lb. (17.2 kg)



CR602

Three Hole Splice Plate

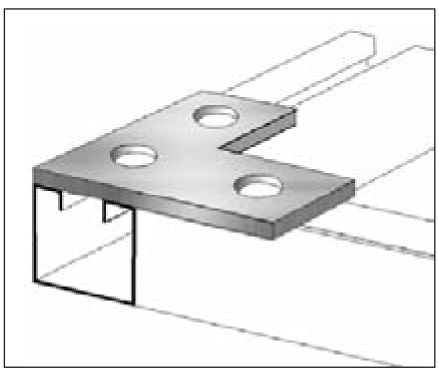
Wt/C:
56 lb. (25.4 kg)



CR723

Four Hole Splice Plate

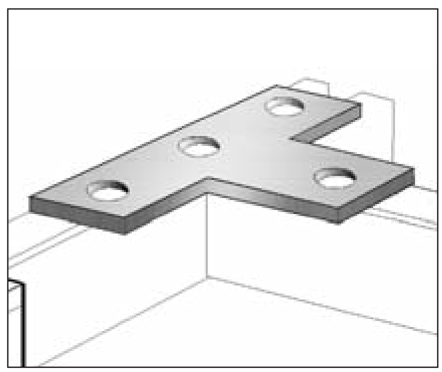
Wt/C:
78 lb. (35.4 kg)



CR718

Flat Angle Plate

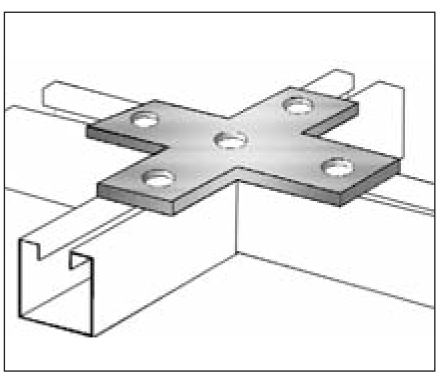
Wt/C:
58 lb. (23.6 kg)



CR714

Tee Plate

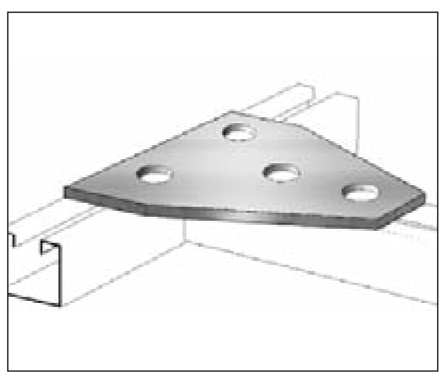
Wt/C:
80 lb. (36.3 kg)



CR712

Five Hole Cross Plate

Wt/C:
100 lb.
(45.3 kg)

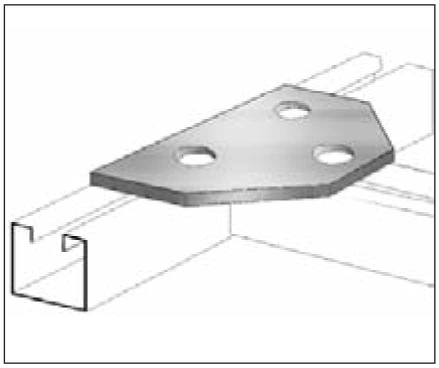


CR747

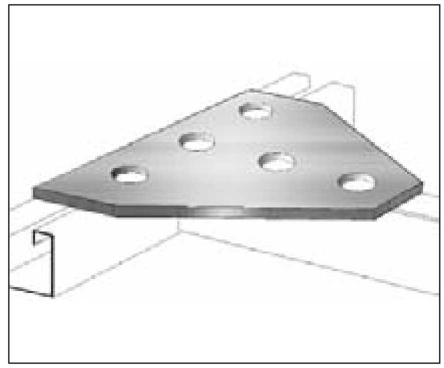
Four Hole Flat Plate

Wt/C:
105 lb.
(47.6 kg)

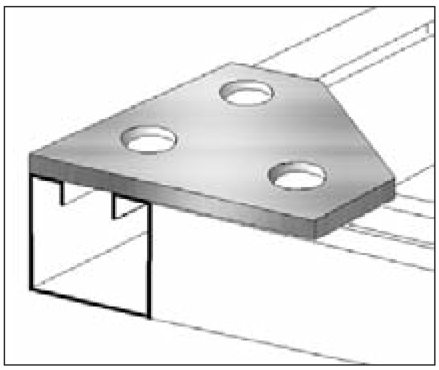
Hole Size	Hole Spacing	Width	Thickness
9/16" Diametre 14.3 mm	13/16" (20.6 mm) from end 1-7/8" (47.6 mm) on centre	1-5/8" 41.3 mm	1/4" 6.4 mm



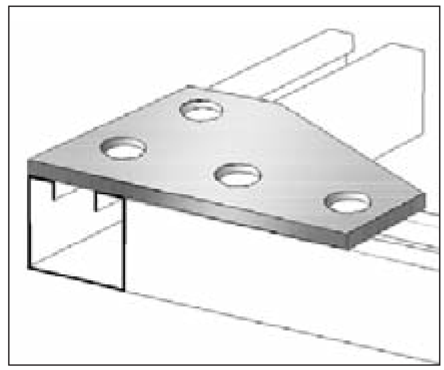
CR925
Three Hole Flat Plate
Wt/C:
70 lb. (31.8 kg)



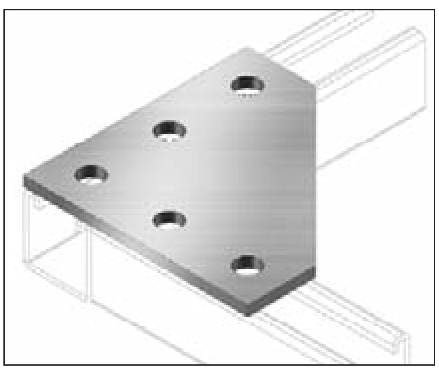
CR854
Five Hole Flat Plate
Wt/C:
148 lb.
(67.1 kg)



CR744
Three Hole Corner Plate
Wt/C:
70 lb. (31.8 kg)

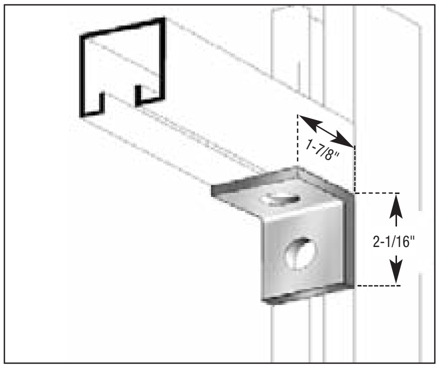


CR750
Four Hole Corner Plate
Wt/C:
105 lb.
(47.6 kg)



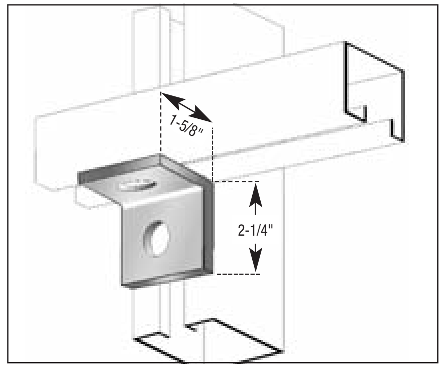
CR751
Five Hole Corner Plate

Hole Size	Hole Spacing	Width	Thickness
9/16" Diametre 14.3 mm	13/16" (20.6 mm) from end 1-7/8" (47.6 mm) on centre	1-5/8" 41.3 mm	1/4" 6.4 mm



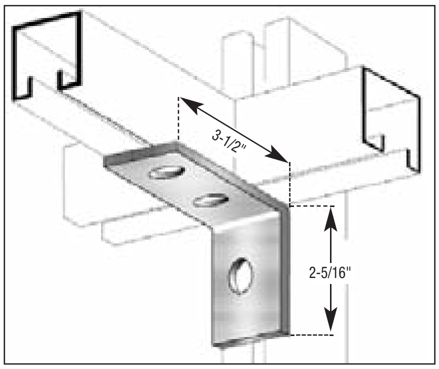
CR603
Two Hole Corner Connector

Wt/C:
38 lb. (17.2 kg)



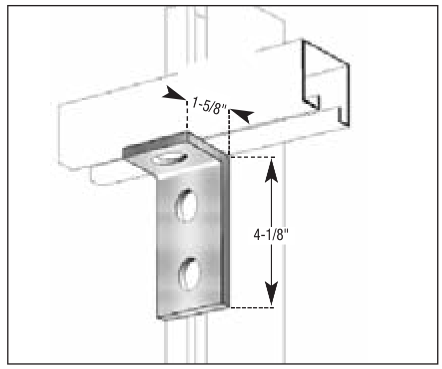
CR604
Two Hole Corner Connector

Wt/C:
38 lb. (17.2 kg)



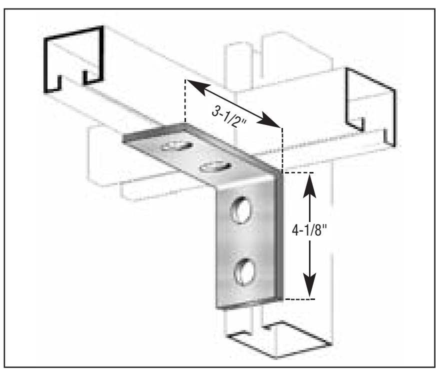
CR605
Three Hole Corner Connector

Wt/C:
58 lb. (26.3 kg)



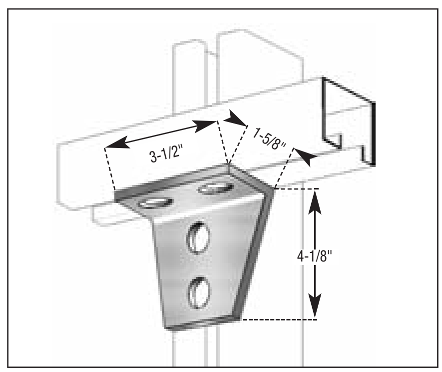
CR606
Three Hole Corner Connector

Wt/C:
58 lb. (26.3 kg)



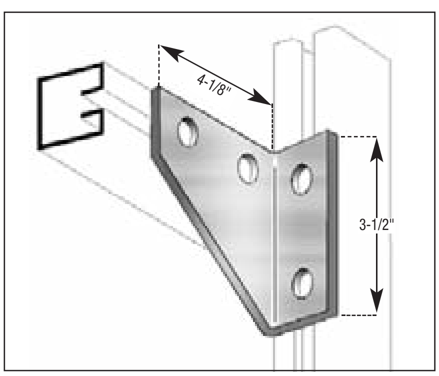
CR607
Four Hole Corner Connector

Wt/C:
78 lb. (35.4 kg)



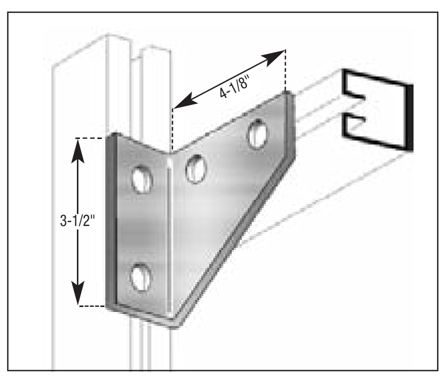
CR748
Four Hole Corner Connector

Wt/C:
105 lb.
(47.6 kg)



CR742
Left
Four Hole Corner Connector

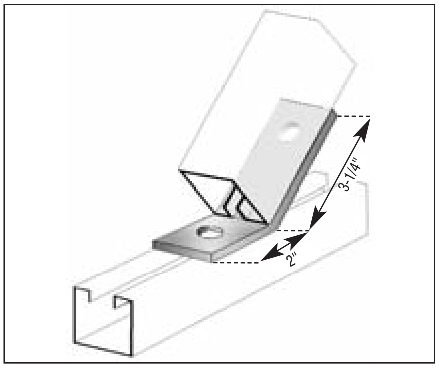
Wt/C:
105 lb.
(47.6 kg)



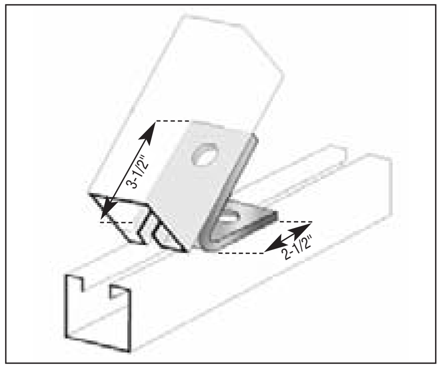
CR743
Right
Four Hole Corner Connector

Wt/C:
101 lb.
(45.8 kg)

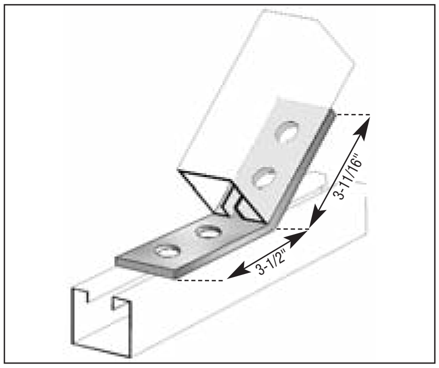
Hole Size	Hole Spacing	Width	Thickness
9/16" Diametre 14.3 mm	13/16" (20.6 mm) from end 1-7/8" (47.6 mm) on centre	1-5/8" 41.3 mm	1/4" 6.4 mm



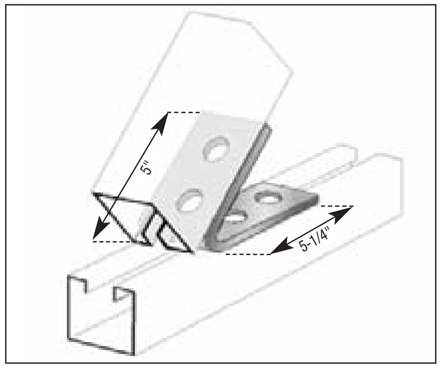
CR633-45
Two Hole Open Angle Connector



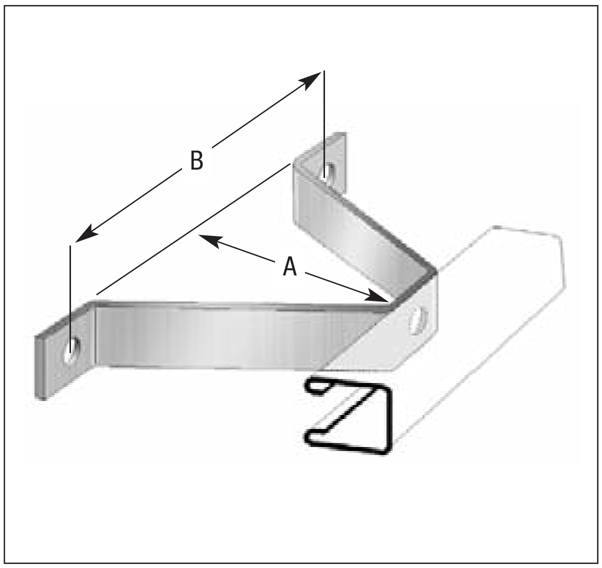
CR624-45
Two Hole Closed Angle Connector



CR781-45
Four Hole Open Angle Connector

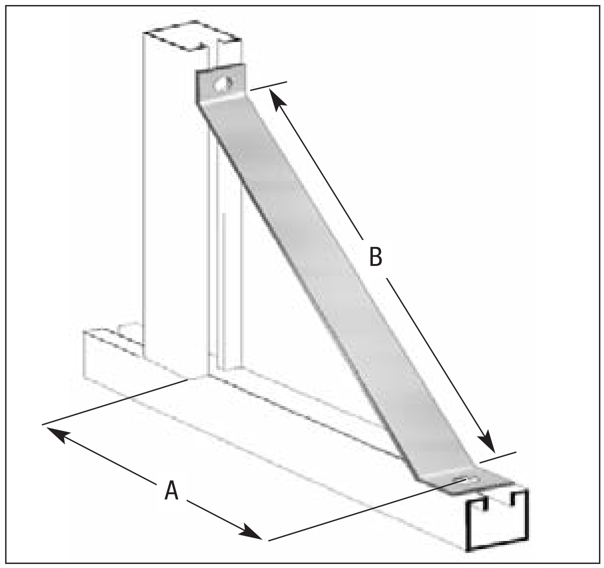


CR793-45
Four Hole Closed Angle Connector



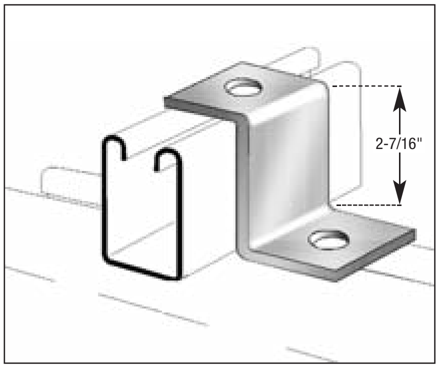
CR1204-1208
Wall Ladder Bracket

	A	B	Weight/C
CR1204	2-3/8"	6"	113 lb
CR1205	4-3/8"	8"	164 lb
CR1206	6-3/8"	10"	216 lb
CR1207	8-3/8"	12"	267 lb
CR1208	10-3/8"	4"	318 lb

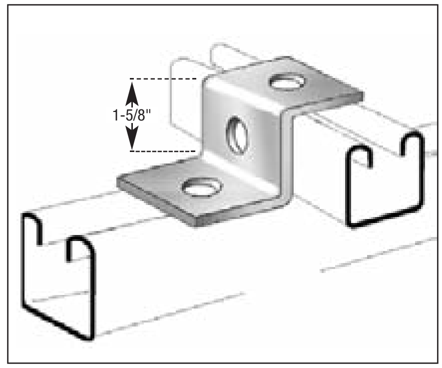


CR926-17 / CR926-25
Knee Brace

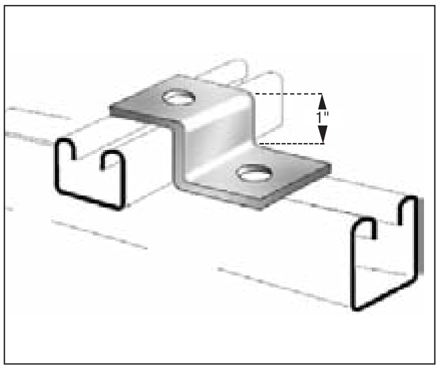
	A	B	Weight/C
CCR926-17	13-3/4"	17"	225 lb
CR926-25	19-3/4"	25"	363 lb



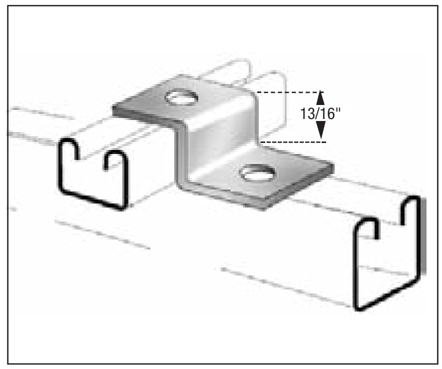
CR2601
Z-Bracket
Wt/C:
67 lb. (30.4 kg)



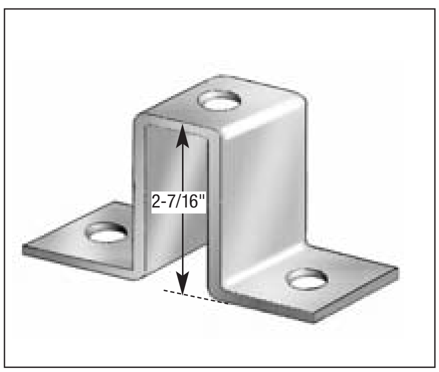
CR611
Z-Bracket
Wt/C:
55 lb. (24.9 kg)



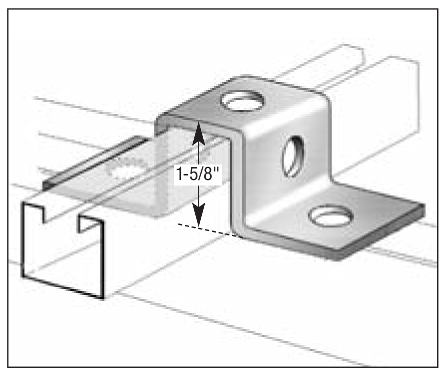
CR612
Z-Bracket
Wt/C:
47 lb. (21.3 kg)



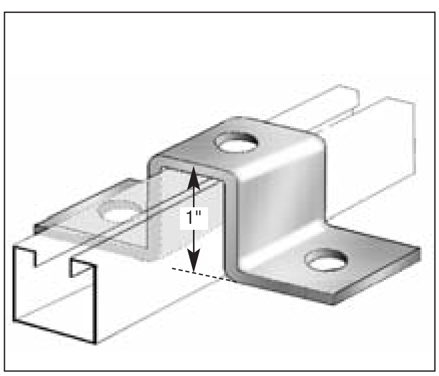
CR928
Z-Bracket
Wt/C:
93 lb. (42.2 kg)



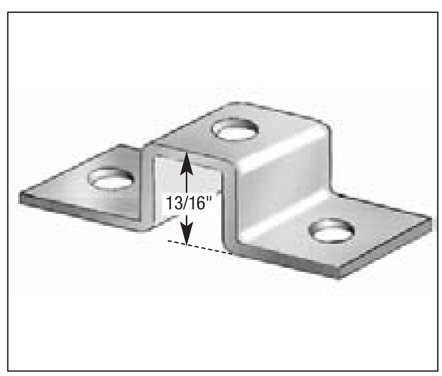
CR2648
Three Hole U-Bracket
Wt/C:
67 lb. (30.4 kg)



CR613
Five Hole U-Bracket
Wt/C:
67 lb. (30.4 kg)

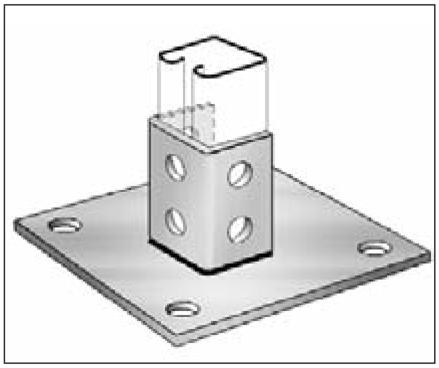


CR614
Three Hole U-Bracket
Wt/C:
67 lb. (30.4 kg)



CR929
Three Hole U-Bracket
Wt/C:
67 lb. (30.4 kg)

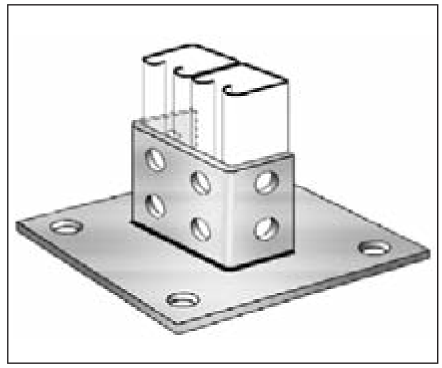
Hole Size	Hole Spacing	Width	Thickness
9/16" Diametre 14.3 mm	13/16" (20.6 mm) from end 1-7/8" (47.6 mm) on centre	1-5/8" 41.3 mm	1/4" 6.4 mm



CR3033

Post Base

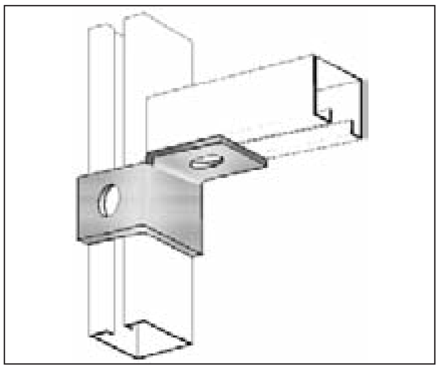
Wt/C:
392 lb.
(177.8 kg)



CR3064

Double Post Base

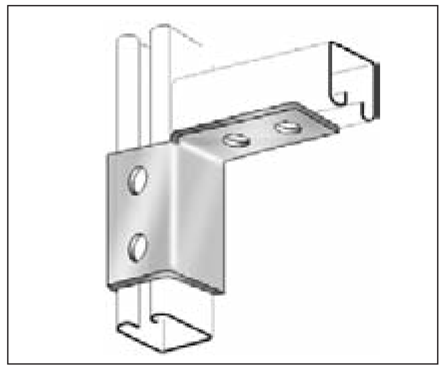
Wt/C:
400 lb.
(181.4 kg)



CR922 R
CR922 L

Two Hole Corner Bracket

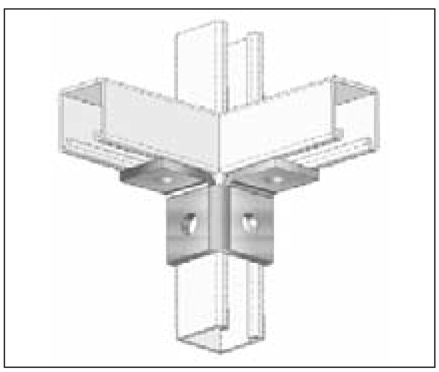
Wt/C:
60 lb.
(27.2 kg)
right or left



CR2128 R
CR2128 L

Four Hole Corner Bracket

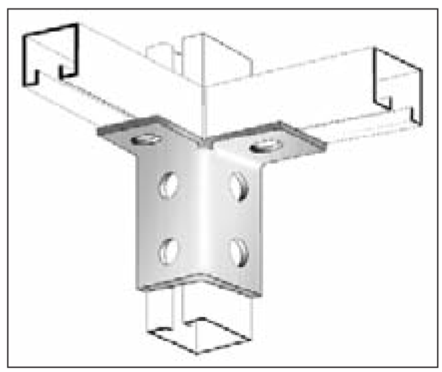
Wt/C:
67 lb.
(30.4 kg)
right or left



CR665

Four Hole Corner Bracket

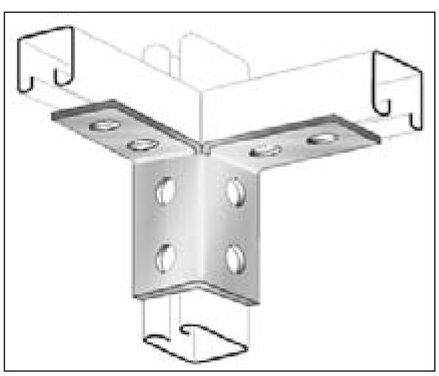
Wt/C:
77 lb.
(34.9 kg)



CR666

Six Hole Corner Bracket

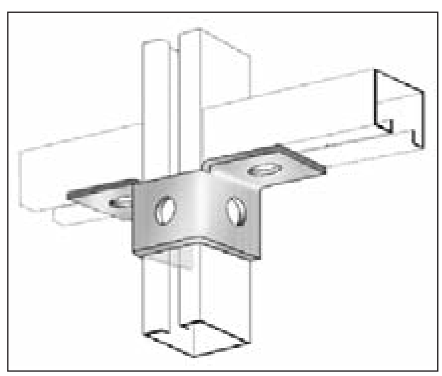
Wt/C:
115 lb.
(52.2 kg)



CR667

Eight Hole Corner Bracket

Wt/C:
155 lb.
(70.3 kg)

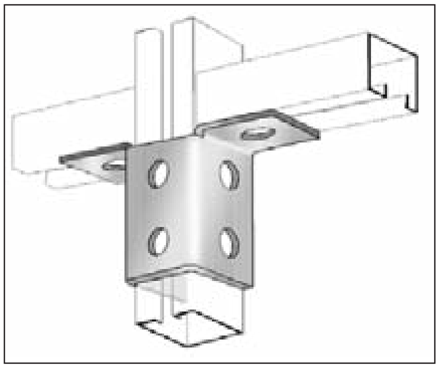


CR923

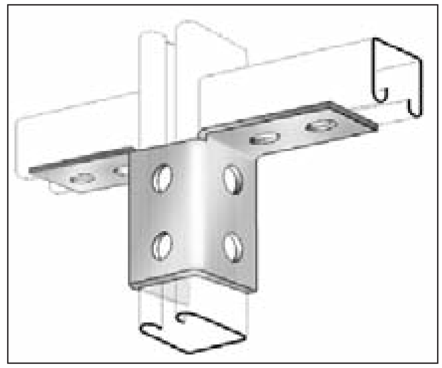
Five Hole Bracket

Wt/C:
76 lb.
(34.5kg)

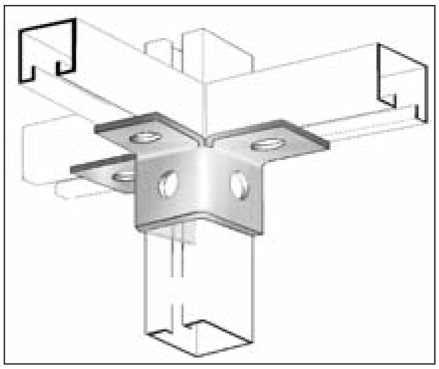
Hole Size	Hole Spacing	Width	Thickness
9/16" Diametre 14.3 mm	13/16" (20.6 mm) from end 1-7/8" (47.6 mm) on centre	1-5/8" 41.3 mm	1/4" 6.4 mm



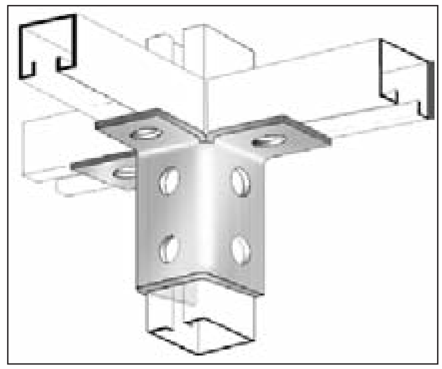
CR821
Eight Hole Bracket
Wt/C:
150 lb.
(68.0 kg)



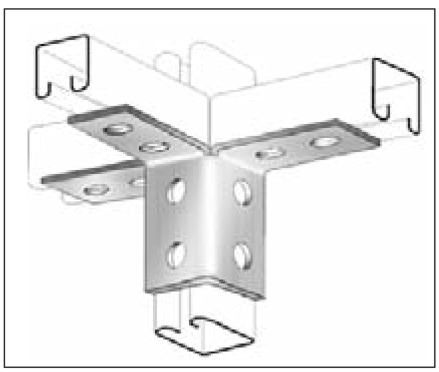
CR913
Ten Hole Bracket
Wt/C:
193 lb.
(87.5 kg)



CR668
Six Hole Bracket
Wt/C:
113 lb.
(51.3 kg)



CR670
Nine Hole Bracket
Wt/C:
177 lb.
(80.3 kg)

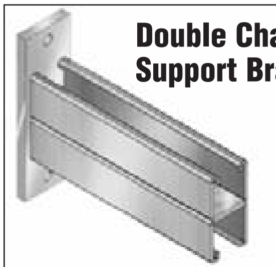


CR669
Twelve Hole Bracket
Wt/C:
230 lb.
(104.3 kg)

Hole Size	Hole Spacing	Width	Thickness
9/16" Diametre 14.3 mm	13/16" (20.6 mm) from end 1-7/8" (47.6 mm) on centre	1-5/8" 41.3 mm	1/4" 6.4 mm

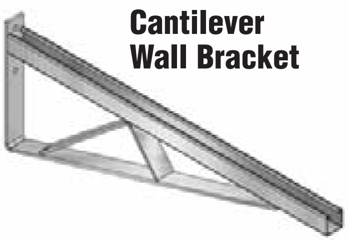
Single Channel Support Bracket

Part Number	Weight in lb. / kg
CR651-6	1.76 / .080
CR651-12	2.76 / 1.25
CR651-18	3.75 / 1.70
CR651-24	4.74 / 2.15
CR651-30	5.73 / 2.60
CR651-36	6.72 / 3.05



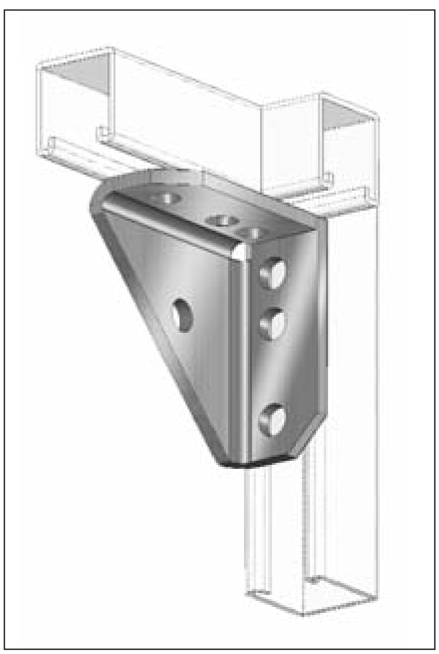
Double Channel Support Bracket

Part Number	Weight in lb. / kg
CR809-6	5.18 / 2.35
CR809-12	7.17 / 3.25
CR809-18	9.15 / 4.15
CR809-24	11.13 / 5.05
CR809-30	13.12 / 5.95
CR809-36	15.10 / 6.85



Cantilever Wall Bracket

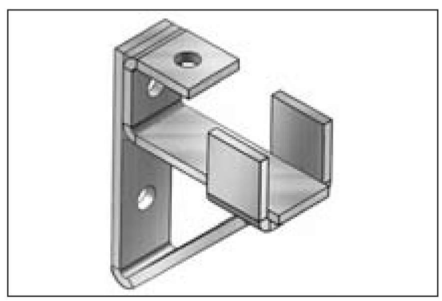
Part Number	Weight in lb. / kg
CR3282-6	3.22 / 1.46
CR3282-12	4.52 / 2.05
CR3282-18	5.60 / 2.54
CR3282-24	7.30 / 3.31
CR3282-30	10.76 / 4.88
CR3282-36	13.60 / 6.17



CR608

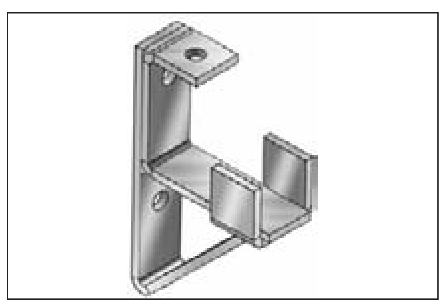
Universal Shelf Bracket

Wt/C:
134 lb.
(60.8 kg)



CR708

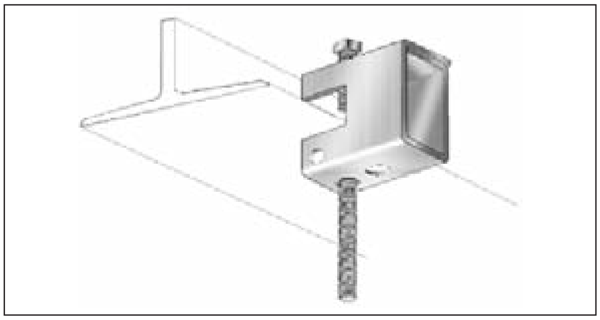
Channel Support Bracket



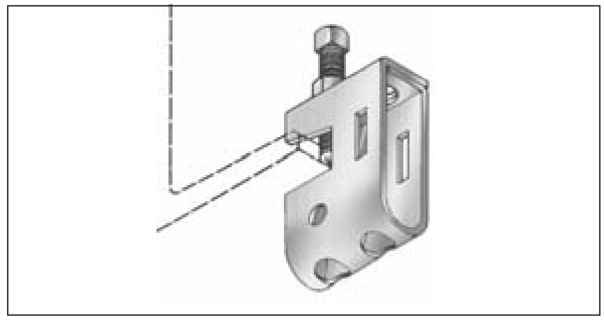
CR709

Double Channel Support Bracket

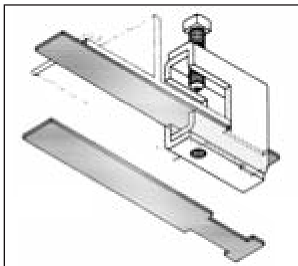
Hole Size	Hole Spacing	Width	Thickness
9/16" Diametre 14.3 mm	13/16" (20.6 mm) from end 1-7/8" (47.6 mm) on centre	1-5/8" 41.3 mm	1/4" 6.4 mm



CR2622-HD
Heavy Duty Beam Clamp
Design Load 500 lb.

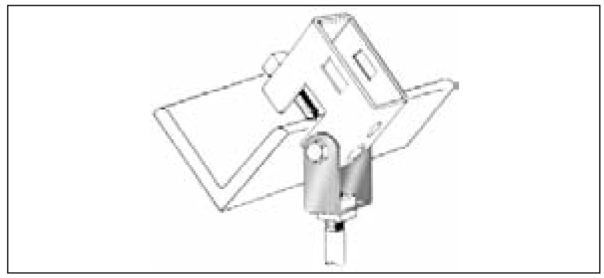


CR2622-LD
Light Duty Beam Clamp
Design Load 300 lb.

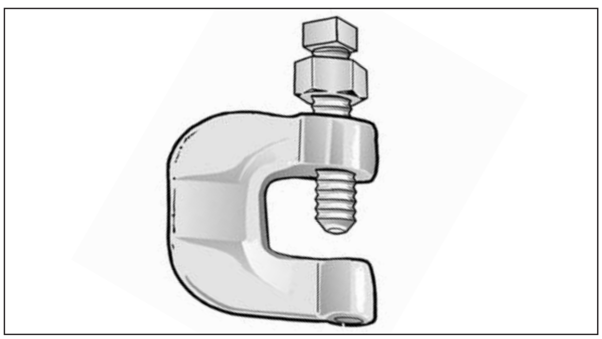


Part Number	For Flange Width	
CR2622-S6	6"	152.4
CR2622-S9	9"	228.6
CR2622-S12	12"	304.8
CR2622-S15	15"	381.0

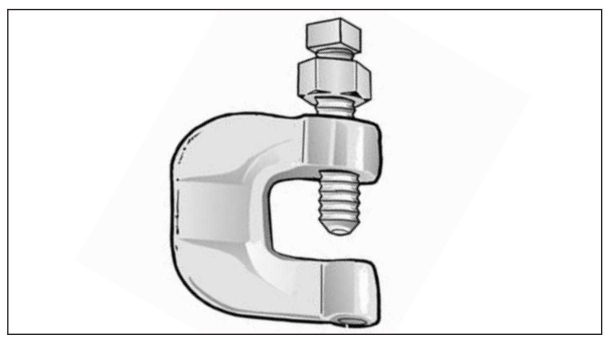
CR2622 -(Add Suffix)
Safety Strap for Beam Clamp



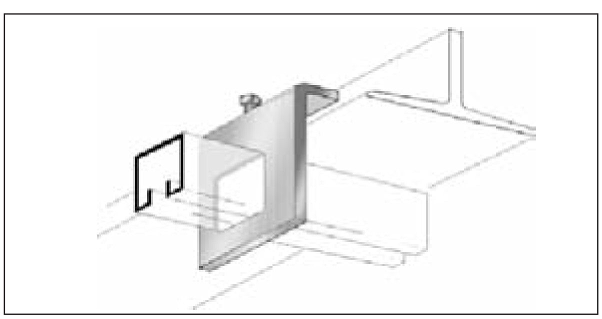
CR2623 Swivel Hanger
to provide angle adjustment for rod suspension as illustrated.



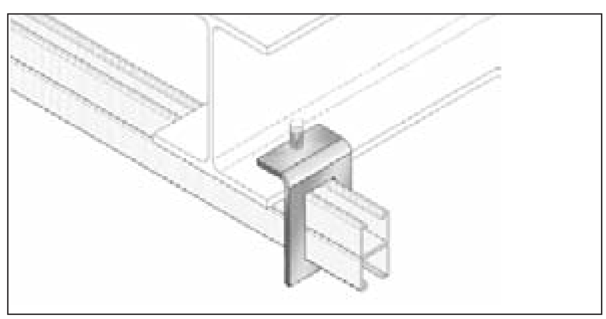
CR2543-3-8 Beam Clamp "C" Style
for 3/8" Rod with Lock Nut



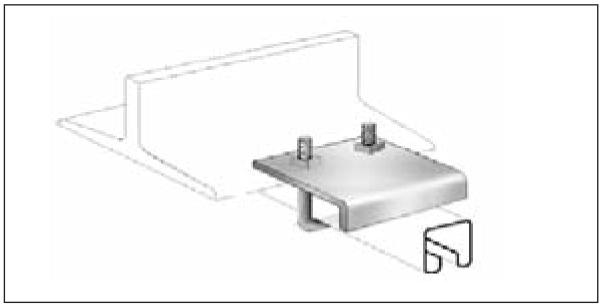
CR2543-1-2 Beam Clamp "C" Style
for 1/2" Rod with Lock Nut



CR855 Beam Clamp
Design Load each: 480 lb. (2.1 Kn). Use in pairs only
Wt/C: 91 lb. (41.3 kg). For channel height: 1-5/8" (41.3)

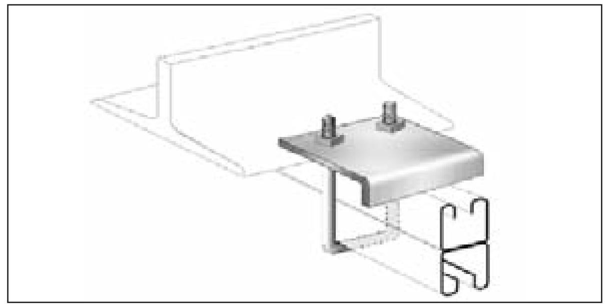


CR855D Double Beam Clamp
Design Load each: 480 lb. (2.1 Kn). Use in pairs only
Wt/C: 91 lb. (41.3 kg). For channel height: 1-5/8" (41.3)



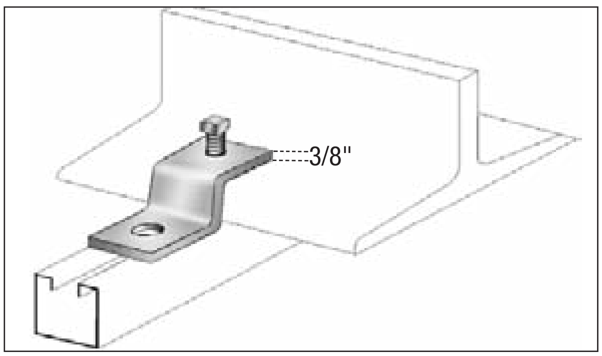
CR2652 U-Bolt Beam Clamp

Design Load each: 1200 lb. (4.4 Kn). Use in pairs only
Wt/C: 83 lb. (37.6 kg)
For use with beams up to 3/4" flanges and with channel members up to 1-5/8" high.



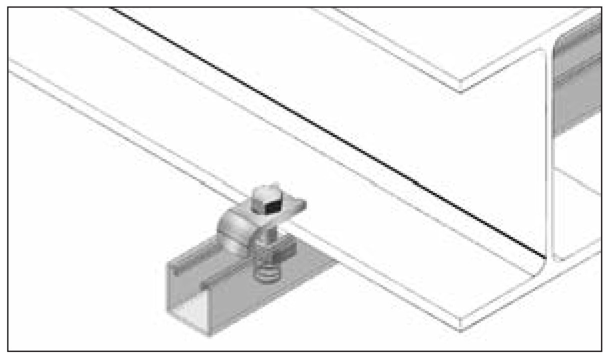
CR2651 U-Bolt Beam Clamp

Design Load each: 1200 lb. (4.4 Kn). Use in pairs only
Wt/C: 92 lb. (41.7 kg)
For use with beams up to 3/4" flanges and with channel members over 1-5/8" to 3-1/4" high.



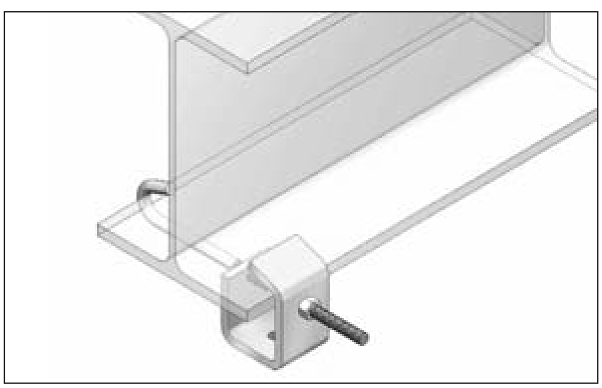
CR685 Beam Clamp

Wt/C: 75 lb. (34 kg)
Design Load each: (CR200) 600 lb. (2.7 kN)
(CR210) 500 lb. (2.2 kN)
Use in pairs only



CR686 Beam Clamp

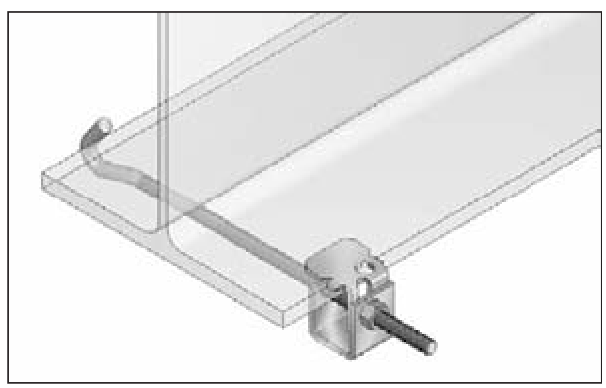
Wt/C: 27 lb. (12.2 kg)
Design Load each: (CR200) 600 lb. (2.7 kN)
(CR210) 500 lb. (2.2 kN)
Use in pairs only



CR827 Beam Clamp

Design Load:
800 lbs. (3.56 kN)

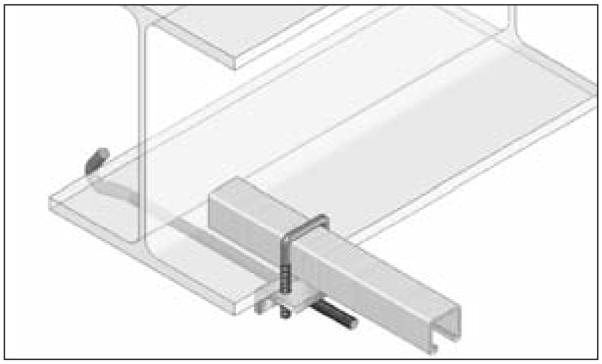
Part No.	Flange Width	Wt/C lbs.
CR827-J4	3"-6"	240
CR827-J6	5"-9"	249
CR827-J9	8"-12"	259
CR827-J12	11"-15"	274



CR810 Beam Clamp

Design Load:
500 lbs. (2.22 kN)
Recommended Torque:
J-Hook Nut (125 in-lbs.)

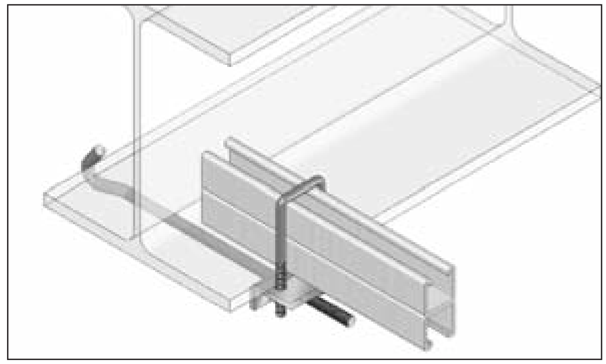
Part No.	Flange Width	Wt/C lbs.
CR810-J4	3"-6"	109
CR810-J6	5"-9"	124
CR810-J9	8"-12"	135
CR810-J12	11"-15"	147



CR812 Beam Clamp

Recommended Torque:
J-Hook Nut (60 in-lbs.)
U-Bolt Nuts (150 in-lbs.)

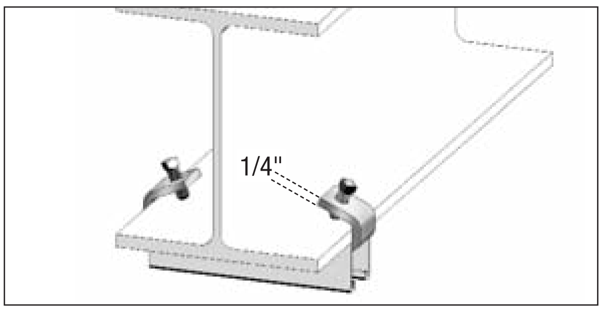
Part No.	Flange Width	Wt/C lbs.
CR812-J4	3"-6"	140
CR812-J6	5"-9"	148
CR812-J9	8"-12"	157
CR812-J12	11"-15"	171



CR814 Beam Clamp

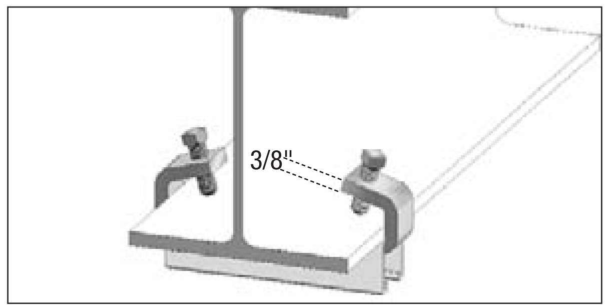
Recommended Torque:
J-Hook Nut (60 in-lbs.)
U-Bolt Nuts (150 in-lbs.)

Part No.	Flange Width	Wt/C lbs.
CR814-J4	3"-6"	147
CR814-J6	5"-9"	155
CR814-J9	8"-12"	163
CR814-J12	11"-15"	177



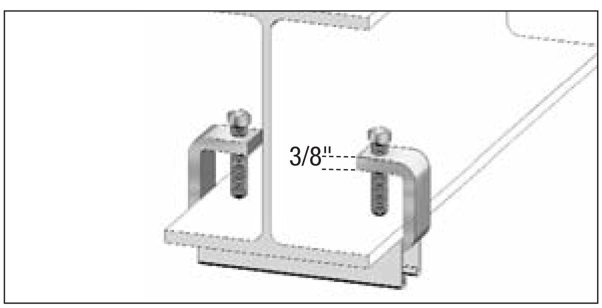
CR907-A Beam Clamp

Design Load each: 450 lb. (2.0 Kn). Use in pairs only
Wt/C: 39 lb. (17.7 kg)



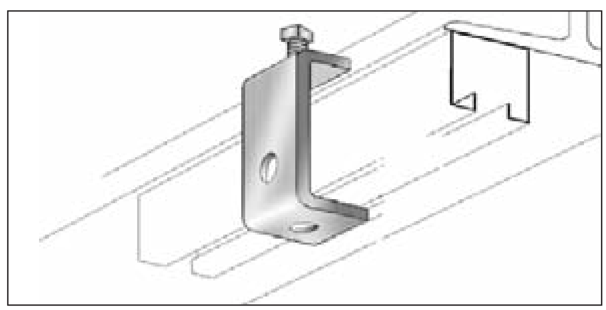
CR907-B Beam Clamp

Design Load each: 1000 lb. (4.4 Kn). Use in pairs only
Wt/C: 62 lb. (28.1 kg)



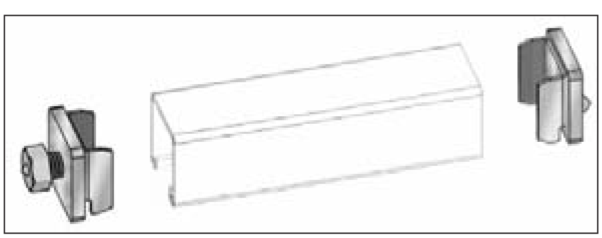
CR907-C Beam Clamp

Design Load each: 900 lb. (4.0 Kn). Use in pairs only
Wt/C: 74 lb. (33.6 kg)



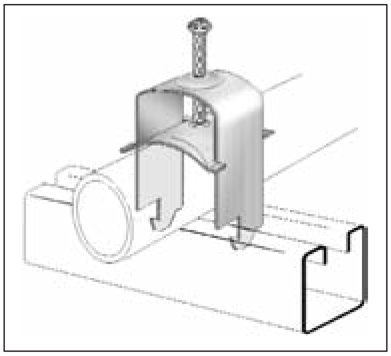
CR684 Beam Clamp

Design Load each: 500 lb. (2.2 Kn). Use in pairs only
Wt/C: 95 lb. (43.1 kg)

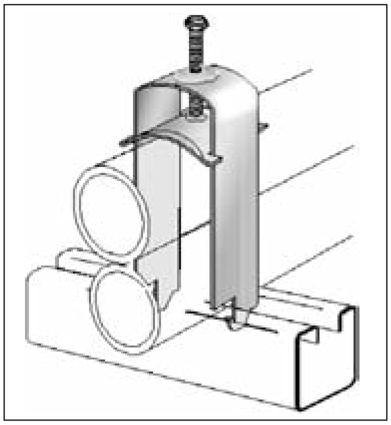


CR2654 Column Insert

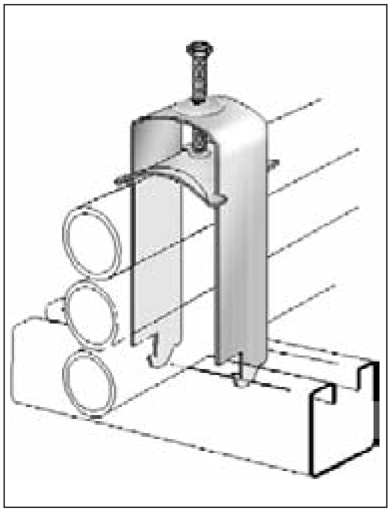
Wt/C: 136 lb. (61.7 kg) - Strut not included



Single "P" Clamp



Double "P" Clamp



Triple "P" Clamp

Standard Material and Finish:
Mild Steel, Electro-Galvanized and Aluminum.

For 316 Stainless Steel add Suffix 'X' to Steel Number.

"P" Clamps (Steel)

PART ID	PART DESCRIPTION	Wt. Kg/C
CR55	CLAMP SINGLE ZP 0.05 - 0.55 O.D.	3.63
CR81	CLAMP SINGLE ZP 0.31 - 0.81 O.D.	4.08
CR110	CLAMP SINGLE ZP 0.70 - 1.10 O.D.	4.54
CR135	CLAMP SINGLE ZP 0.85 - 1.35 O.D.	4.77
CR175	CLAMP SINGLE ZP 1.25 - 1.75 O.D.	5.00
CR205	CLAMP SINGLE ZP 1.55 - 2.05 O.D.	7.70
CR250	CLAMP SINGLE ZP 2.00 - 2.50 O.D.	9.53
CR300	CLAMP SINGLE ZP 2.50 - 3.00 O.D.	21.80
CR325	CLAMP SINGLE ZP 2.75 - 3.25 O.D.	24.50
CR375	CLAMP SINGLE ZP 3.25 - 3.75 O.D.	47.60
CR425	CLAMP SINGLE ZP 3.75 - 4.25 O.D.	49.90
CR475	CLAMP SINGLE ZP 4.25 - 4.75 O.D.	56.70

"P" Clamps (Aluminum)

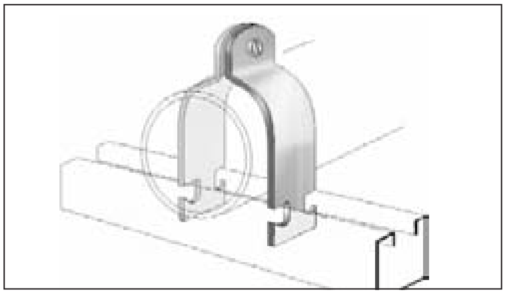
PART ID	PART DESCRIPTION	Wt. Kg/C
CR55A	CLAMP SINGLE AL 0.05 - 0.55 O.D.	2.27
CR81A	CLAMP SINGLE AL 0.31 - 0.81 O.D.	2.72
CR110A	CLAMP SINGLE AL 0.70 - 1.10 O.D.	2.97
CR135A	CLAMP SINGLE AL 0.85 - 1.35 O.D.	3.17
CR175A	CLAMP SINGLE AL 1.25 - 1.75 O.D.	3.63
CR205A	CLAMP SINGLE AL 1.55 - 2.05 O.D.	5.44
CR250A	CLAMP SINGLE AL 2.00 - 2.50 O.D.	6.35
CR300A	CLAMP SINGLE AL 2.50 - 3.00 O.D.	6.80
CR325A	CLAMP SINGLE AL 2.75 - 3.25 O.D.	8.16
CR375A	CLAMP SINGLE AL 3.25 - 3.75 O.D.	9.53
CR425A	CLAMP SINGLE AL 3.75 - 4.25 O.D.	10.90
CR475A	CLAMP SINGLE AL 4.25 - 4.75 O.D.	15.80

Note: Double and Triple Conductor Clamps are also available – prices on request. 316 Stainless Steel Clamps – prices on request.

For Double add '-2' to Part Number
For Triple add '-3' to Part Number

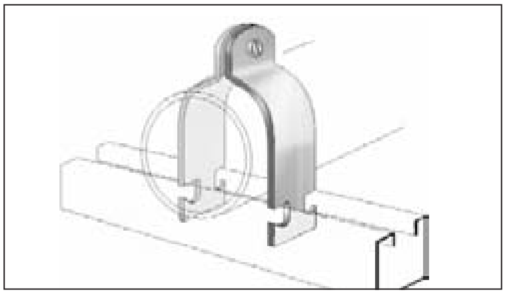
FOR OTHER SIZES OR FINISHES PLEASE CONTACT FACTORY

Standard Material and Finish:
Mild Steel, Electro-Galvanized and Aluminum.
For 316 Stainless Steel add suffix 'X' to Steel Number.



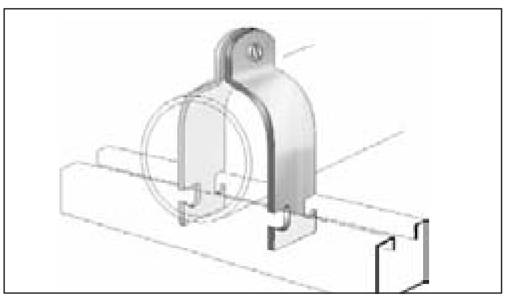
For Thin Wall Steel Conduit (E.M.T.)

PART ID	DESCRIPTION
CR1025	CLAMP ZP 3/8 EMT CONDUIT 2PC
CR1026	CLAMP ZP 1/2 EMT CONDUIT 2PC.
CR1027	CLAMP ZP 3/4 EMT CONDUIT 2PC.
CR1028	CLAMP ZP 1 EMT CONDUIT 2PC.
CR1029	CLAMP ZP 1.25 EMT CONDUIT 2PC.
CR1030	CLAMP ZP 1.50 EMT CONDUIT 2PC.
CR1031	CLAMP ZP 2 EMT CONDUIT 2PC.



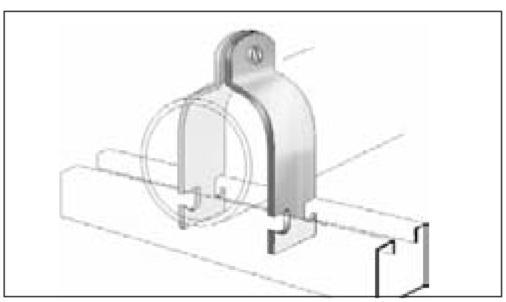
For Rigid Steel Conduit

PART ID	DESCRIPTION
CR1125	CLAMP ZP 3/8 RIGID CONDUIT 2PC.
CR1126	CLAMP ZP 1/2 RIGID CONDUIT 2PC.
CR1127	CLAMP ZP 3/4 RIGID CONDUIT 2PC.
CR1128	CLAMP ZP 1 RIGID CONDUIT 2PC.
CR1129	CLAMP ZP 1.25 RIGID CONDUIT 2PC.
CR1130	CLAMP ZP 1.50 RIGID CONDUIT 2PC.
CR1131	CLAMP ZP 2 RIGID CONDUIT 2PC.
CR1132	CLAMP ZP 2.50 RIGID CONDUIT 2PC.
CR1133	CLAMP ZP 3 RIGID CONDUIT 2PC.
CR1134	CLAMP ZP 3.50 RIGID CONDUIT 2PC.
CR1135	CLAMP ZP 4 RIGID CONDUIT 2PC.
CR1136	CLAMP ZP 4.5 RIGID CONDUIT 2PC.
CR1137	CLAMP ZP 5 RIGID CONDUIT 2PC.
CR1138	CLAMP ZP 6 RIGID CONDUIT 2PC.
CR1140	CLAMP ZP 8 RIGID CONDUIT 2PC.



For Thin Wall Aluminum Conduit (E.M.T.)

PART ID	DESCRIPTION
CR1025A	CLAMP AL 3/8 EMT CONDUIT 2PC.
CR1026A	CLAMP AL 1/2 EMT CONDUIT 2PC.
CR1027A	CLAMP AL 3/4 EMT CONDUIT 2PC.
CR1028A	CLAMP AL 1 EMT CONDUIT 2PC.
CR1029A	CLAMP AL 1.25 EMT CONDUIT 2PC.
CR1030A	CLAMP AL 1.50 EMT CONDUIT 2PC.
CR1031A	CLAMP AL 2 EMT CONDUIT 2PC.



For Rigid Aluminum Conduit

PART ID	DESCRIPTION
CR1125A	CLAMP AL 3/8 RIGID CONDUIT 2PC.
CR1126A	CLAMP AL 1/2 RIGID CONDUIT 2PC.
CR1127A	CLAMP AL 3/4 RIGID CONDUIT 2PC.
CR1128A	CLAMP AL 1 RIGID CONDUIT 2PC.
CR1129A	CLAMP AL 1.25 RIGID CONDUIT 2PC.
CR1130A	CLAMP AL 1.50 RIGID CONDUIT 2PC.
CR1131A	CLAMP AL 2 RIGID CONDUIT 2PC.
CR1132A	CLAMP AL 2.50 RIGID CONDUIT 2PC.
CR1133A	CLAMP AL 3 RIGID CONDUIT 2PC.
CR1134A	CLAMP AL 3.50 RIGID CONDUIT 2PC.
CR1135A	CLAMP AL 4 RIGID CONDUIT 2PC.
CR1136A	CLAMP AL 4.5 RIGID CONDUIT 2PC.
CR1137A	CLAMP AL 5 RIGID CONDUIT 2PC.
CR1138A	CLAMP AL 6 RIGID CONDUIT 2PC.
CR1140A	CLAMP AL 8 RIGID CONDUIT 2PC.

FOR OTHER SIZES OR FINISHES PLEASE CONTACT FACTORY

Channel Section Properties

Section properties					X – X Axis						Y – Y Axis					
Channel	Weight		Areas of Section		Moment of Inertia (I)		Section Modulus (S)		Radius of Gyration (R)		Moment of Inertia (I)		Section Modulus (S)		Radius of Gyration (R)	
	lb./ft.	kg/m	sq. in.	cm^2	in^4	cm^4	in^3	cm^3	in	cm	in^4	cm^4	in^3	cm^3	in	cm
CR150	2.47	3.67	0.727	4.69	.5203	21.65	.3927	6.43	.852	2.16	.3306	13.76	.4068	6.66	.679	1.72
CR151	4.94	7.35	1.453	9.37	2.8132	117.091	1.1541	18.91	1.402	3.56	.6611	27.52	.8137	13.33	.679	1.72
CR200	1.90	2.83	.559	3.61	.1850	7.70	.2042	3.34	.580	1.47	.2340	9.74	.2880	4.72	.653	1.66
CR201	3.80	5.65	1.118	7.21	.9379	39.04	.5772	9.46	.924	2.34	.4681	19.48	.576	9.44	.653	1.66
CR220	1.42	2.1	.435	2.80	.155	6.46	.162	2.65	.577	1.465	.191	7.93	.266	4.36	.677	1.72
CR210	1.16	1.73	.342	2.20	.125	5.60	.140	2.29	.604	1.53	.151	6.65	.186	3.04	.665	1.69

Add suffix to part number: B=Bare Steel G=HDG P=Pregalv.

Section properties					X – X Axis						Y – Y Axis					
Channel	Weight		Areas of Section		Moment of Inertia (I)		Section Modulus (S)		Radius of Gyration (R)		Moment of Inertia (I)		Section Modulus (S)		Radius of Gyration (R)	
	lb./ft.	kg/m	sq. in.	cm^2	in^4	cm^4	in^3	cm^3	in	cm	in^4	cm^4	in^3	cm^3	in	cm
CR400	1.44	2.14	.424	2.73	.0533	2.22	.0923	1.51	.356	.90	.1598	6.65	.1967	3.22	.616	1.56
CR401	2.88	4.28	.847	5.46	.2570	10.70	.2570	4.21	.552	1.40	.3196	13.30	.3933	6.44	.616	1.56
CR500	.97	1.44	.285	1.84	.0262	1.09	.0558	.91	.298	.75	.1096	4.56	.1096	2.21	.609	1.54
CR501	1.94	2.89	.571	3.68	.1217	5.06	.1498	2.45	.454	1.15	.2191	9.12	.2697	4.42	.609	1.54
CR510	.83	1.23	2.44	1.57	.023	1.03	.049	.80	.306	.77	.092	4.12	.113	1.85	.613	1.55

Add suffix to part number: B=Bare Steel G=HDG P=Pregalv.

COMSTRUT

Comstrut Surface Raceway

Use of our raceway eliminates the individual suspension of fixtures, saving labour and material. When the channel is placed, fixtures can be installed anywhere along the system. Based on the strength of the COMSTRUT channel, the number of suspension rods is minimal.

Wiring Capacity of COMSTRUT Channel for Types R. RH, RW, T or TW

Wire Gauges	CR200, CR210	CR400, CR410	CR500, CR510
14	12	10	8
12	10	9	6
10	8	6	4
8	6	5	3
6	5	4	2

Note: CR707 closure strip must be used to make an enclosed raceway. Caution: Wiring in raceway shall be rated at not less than 75º C when electric – discharge lighting fixtures are closer than 1/2" (12.7 mm) from the raceway.

Deflection of Channel for Continuous Row of 4' Fixtures Weighing 15 lb. (6.8 kg)

Support Distance		CR200		CR400		CR500	
ft	m	inches	mm	inches	mm	inches	mm
4	1.2	.005	0.127	.007	0.178	.013	.330
8	2.4	.080	2.032	.125	3.175	.212	5.380
12	3.6	.420	10.668	.610	15.494	1.077	27.350
16	4.8	1.525	38.735	1.950	49.530	-	-

When fixtures are spaced 4' (1.2m) apart, the deflection will be approximately 50% of the values in a continuous row. To maintain the deflection, do not join channel in midspan.

Beam Loading

Beam Span In.	Beam Span mm	Channel Style	Uniform Load and Deflection lb.	N	In.	mm	Uniform Load at Deflection = 1/240 Span lb.	N	1/360 Span lb.	N
12	305	CR150	3880	17259	.009	.23	3880	17259	3880	17259
		CR151	3880*	17259	.001	.02	3880*	17259	3880*	17259
24	609	CR150	3273	14559	.038	.96	3273	14559	3273	14559
		CR151	3880*	17259	.008	.20	3880*	17259	3880*	17259
36	914	CR150	2182	9706	.086	2.18	2182	9706	2182	9706
		CR151	3880*	17259	.028	.71	3880*	17259	3880*	17259
48	1219	CR150	1636	7277	.153	3.88	1636	7277	1421	6321
		CR151	3880*	17259	.067	1.70	3880*	17259	3880*	17259
60	1524	CR150	1309	5823	.240	6.09	1309	5823	909	4043
		CR151	3847*	17112	.130	3.30	3847*	17112	3847*	17112
72	1829	CR150	1091	4853	.345	8.76	947	4212	632	2811
		CR151	3206	14261	.188	4.77	3206	14261	3206	14261
84	2133	CR150	935	4159	.470	11.94	696	3096	464	2064
		CR151	2748	12224	.255	6.48	2748	12224	2509	11160
96	2438	CR150	818	3638	.614	15.59	533	2371	355	1579
		CR151	2404	10693	.334	8.48	2404	10693	1921	8545
108	2743	CR150	727	3234	.777	19.73	421	1873	281	1250
		CR151	2137	9506	.422	10.72	2137	9506	1518	6752
120	3048	CR150	655	2913	.959	24.36	341	1517	227	1010
		CR151	1924	8558	.521	13.23	1844	8202	1229	5467

Based on a simple beam condition using an allowable design stress of 25000 psi (172 MPa) with adequate lateral bracing. To determine concentrated load capacity at mid span, multiply uniform load by 0.5 and corresponding deflection by 0.8. *Limited by spot weld shear
For half slot loading use multiplier .85

Column Loading

Unbraced Height In.	Unbraced Height mm	Channel Style	Maximum Column Loading K = .80 Loaded at C.G. lb.	N	Loaded at Slot Face lb.	N	Maximum Column Loading (Loaded at C.G.) K = .65 lb.	N	K = 1.0 lb.	N	K = 1.2 lb.	N
12	305	CR150	10140	45105	4752	21138	10247	45581	9965	44326	9756	43397
		CR151	20820	92612	8023	35688	20854	92763	20763	92358	20694	92051
24	609	CR150	9244	41119	4514	20079	9639	42876	8629	38384	7933	35288
		CR151	20519	91273	7956	35390	20655	91878	20293	90268	20017	89040
36	914	CR150	7933	35288	4137	18402	8711	35748	6786	30185	5572	24785
		CR151	20017	89040	7844	34892	20324	90405	19509	86780	18889	84022
48	1219	CR150	6386	28406	3638	16182	7562	33637	4785	21285	3717	16534
		CR151	19315	85917	7688	34198	19861	88346	18412	81900	17309	76994
60	1524	CR150	4785	21285	2963	13180	6285	27957	3523	15671	2806	12428
		CR151	18412	81900	6941	30875	19265	85695	17002	75628	15278	67960
72	1829	CR150	3717	16534	2197	9773	4964	22081	2806	12482	2271	10102
		CR151	17309	76994	5334	23727	18536	82452	15278	67960	12795	56915
84	2133	CR150	3052	13576	1717	7637	3994	17766	2345	10431	1913	8509
		CR151	16005	71194	4176	18576	17675	78622	13240	58894	9884	43966
96	2438	CR150	2600	11565	1391	6187	3350	14901	2019	8981	1650	7339
		CR151	14500	64499	3328	14803	16682	74205	10889	48436	7567	33659
108	2743	CR150	2271	10102	1155	5137	2893	12869	1773	7886	1446	6432
		CR151	12795	56915	2692	11974	15556	69196	8610	38299	5979	26596
120	3048	CR150	2019	8981	977	4346	2553	11356	1577	7015	1279**	5689
		CR151	10889	48436	2202	9795	14298	63600	6974	31022	4843**	21543

Column loads assume no lateral support
** $\frac{KL}{r}$ exceeds 200

Beam Loading

Beam Span		Channel Style	Uniform Load and Deflection				Uniform Load at Deflection = 1/240 Span		1/360 Span	
In.	mm		lb.	N	In.	mm	lb.	N	lb.	N
12	305	CR200	3404	15142	.014	.35	3404	15142	3404	15142
		CR201	2610*	11610	.002	.05	2610*	11610	2610*	11610
24	609	CR200	1702	7571	.056	1.42	1702	7571	1702	7571
		CR201	2610*	11610	.017	.43	2610*	11610	2610*	11610
36	914	CR200	1135	5049	.126	3.20	1135	5049	899	3999
		CR201	2610*	11610	.057	1.45	2610*	11610	2610*	11610
48	1219	CR200	851	3785	.224	5.69	758	3372	505	2246
		CR201	2405	10698	.125	3.17	2405	10698	2405	10698
60	1524	CR200	681	3029	.351	8.91	485	2157	323	1437
		CR201	1924	8558	.195	4.95	1924	8558	1640	7295
72	1829	CR200	567	2522	.505	12.83	337	1499	225	1001
		CR201	1603	7130	.281	7.14	1603	7130	1139	5066
84	2133	CR200	486	2162	.687	17.45	248	1103	165	734
		CR201	1374	6112	.383	9.73	1255	5582	837	3723
96	2438	CR200	425	1890	.898	22.81	190	845	126	560
		CR201	1202	5347	.500	12.70	961	4275	640	2847
108	2743	CR200	378	1681	1.136	28.85	150	667	100	445
		CR201	1069	4755	.633	16.08	759	3376	506	2251
120	3048	CR200	340	1512	1.403	35.63	121	538	81	360
		CR201	962	4279	.782	19.86	615	2735	410	1824

Based on a simple beam condition using an allowable design stress of 25000 psi (172 MPa) with adequate lateral bracing. To determine concentrated load capacity at mid span, multiply uniform load by 0.5 and corresponding deflection by 0.8. *Limited by spot weld shear

For half slot loading use multiplier .85

Column Loading

Unbraced Height		Channel Style	Maximum Column Loading K = .80: Loaded at C.G.		Loaded at Slot Face		Maximum Column Loading (Loaded at C.G.): K = .65		K = 1.0		K = 1.2	
In.	mm		lb.	N	lb.	N	lb.	N	lb.	N	lb.	N
12	305	CR200	10454	46502	4276	19020	10598	47142	10222	45470	9950	44260
		CR201	21625	96193	7002	31146	21677	96424	21539	95810	21433	95339
24	609	CR200	9311	41417	3993	17762	9801	43597	8582	38174	7801	34700
		CR201	21164	94142	6898	30684	21373	95072	20819	92607	20397	90730
36	914	CR200	7801	34700	3589	15964	8676	38593	6595	29336	5392	23985
		CR201	20397	90730	6728	29927	20866	92816	19619	87269	18669	83044
48	1219	CR200	6193	27548	3118	13869	7401	32921	4718	20987	3791	16863
		CR201	19322	85948	6496	28895	20157	89663	17940	79801	16251	72288
60	1524	CR200	4718	20987	2631	11703	6093	27103	3616	16085	2936	13060
		CR201	17940	79801	5340	23753	19244	85601	15781	70197	13141	58454
72	1829	CR200	3791	16863	2264	10071	4869	21658	2936	13060	2381	10591
		CR201	16251	72288	3968	17650	18129	80642	13141	58454	9524	42365
84	2133	CR200	3176	14127	1984	8825	4037	17957	2461	10947	1980	8807
		CR201	14255	63409	3028	13469	16812	74783	10076	44820	6998	31128
96	2438	CR200	2728	16583	1761	7833	3456	15373	2101	9346	1671	7433
		CR201	11951	53160	2359	10493	15291	68018	7715	34318	5357	23829
108	2743	CR200	2381	10591	1575	7006	3022	13442	1816	8078	1426**	6343
		CR201	9524	42365	1867	8305	13568	60353	6096	27116	4233	18829
120	3048	CR200	2101	9346	1418	6307	2680	11921	1583**	7041	1228**	5462
		CR201	7715	34318	1512	6726	11642	51786	4937	21961	3429**	15253

Column loads assume no lateral support

** $\frac{KL}{r}$ exceeds 200

Beam Loading

Beam Span		Channel Style	Uniform Load and Deflection				Uniform Load at Deflection = 1/240 Span		1/360 Span	
In.	mm		lb.	N	In.	mm	lb.	N	lb.	N
12	305	CR220	2757	12264	.014	.35	2757	12264	2757	12264
		CR221	1750*	7784	.002	.05	1750*	7784	1750*	7784
24	609	CR220	1379	6134	.057	1.45	1379	6134	1379	6134
		CR221	1750*	7784	.014	.35	1750*	7784	1750*	7784
36	914	CR220	919	4088	.128	3.25	919	4088	720	3203
		CR221	1750*	7784	.048	1.22	1750*	7784	1750*	7784
48	1219	CR220	689	3065	.227	5.76	607	2700	405	1801
		CR221	1750*	7784	.115	2.92	1750*	7784	1750*	7784
60	1524	CR220	551	2451	.355	9.02	389	1730	259	1152
		CR221	1518	6752	.195	4.95	1518	6752	1294	5756
72	1829	CR220	460	2046	.511	12.98	270	1201	180	800
		CR221	1265	5627	.281	7.14	1265	5627	898	3994
84	2133	CR220	394	1752	.695	17.65	198	881	132	587
		CR221	1084	4822	.383	9.73	990	4404	660	2936
96	2438	CR220	345	1534	.908	23.06	152	676	101	449
		CR221	949	4221	.500	12.70	758	3372	505	2246
108	2743	CR220	306	1361	1.149	29.18	120	534	80	356
		CR221	843	3750	.633	16.08	599	2664	399	1775
120	3048	CR220	276	1228	1.419	36.04	97	431	65	289
		CR221	759	3376	.782	19.86	485	2157	323	1437

Based on a simple beam condition using an allowable design stress of 25000 psi (172 MPa) with adequate lateral bracing. To determine concentrated load capacity at mid span, multiply uniform load by 0.5 and corresponding deflection by 0.8. *Limited by spot weld shear

For half slot loading use multiplier .85

Column Loading

Unbraced Height		Channel Style	Maximum Column Loading K = .80 Loaded at C.G.		Loaded at Slot Face		Maximum Column Loading (Loaded at C.G.) K = .65		K = 1.0		K = 1.2	
In.	mm		lb.	N	lb.	N	lb.	N	lb.	N	lb.	N
12	305	CR220	6441	28651	3077	13687	6509	28953	6330	28157	6198	27570
		CR221	13212	58770	4988	22188	13237	58881	13171	58587	13121	58365
24	609	CR220	5874	26129	2896	12882	6124	27241	5483	24389	5038	22410
		CR221	12993	57796	4924	21903	13092	58236	12828	57062	12627	56167
36	914	CR220	5038	22410	2619	11650	5535	24621	4302	19136	3516	15640
		CR221	12627	56167	4819	21436	12851	57164	12256	54517	11804	52507
48	1219	CR220	4043	17984	2272	10106	4800	21351	3008	13380	2324	10337
		CR221	12115	53890	4675	20795	12512	55656	11456	50959	10651	47378
60	1524	CR220	3008	13380	1873	8331	3978	17695	2200	9786	1740	77 40
		CR221	11456	50959	4020	17882	12078	53725	10427	46381	9169	40786
72	1829	CR220	2324	10337	1562	6948	3123	13892	1740	7740	1397	6214
		CR221	10651	47378	3048	13558	11546	51359	9169	40786	7358	32730
84	2133	CR220	1898	8443	1340	5960	2502	11129	1444	6423	1168	5195
		CR221	9700	43148	2362	10506	10918	48565	7683	34175	5464	24305
96	2438	CR220	1608	7153	1175	5226	2089	9292	1236	5498	1000	4448
		CR221	8602	38263	1866	8300	10194	45345	6024	26796	4184	18611
108	2743	CR220	1397	6214	1046	4653	1796	7989	1078	4795	870**	3870
		CR221	7358	32730	1498	6663	9373	41693	4760	21173	3306	14706
120	3048	CR220	1236	5498	942	4190	1578	7019	953**	4239	764**	3398
		CR221	6024	26796	1216	5409	8455	37610	3856	17152	2677**	11908

Column loads assume no lateral support

** $\frac{KL}{r}$ exceeds 200

Beam Loading

Beam Span		Channel Style	Uniform Load and Deflection				Uniform Load at Deflection = 1/240 Span		1/360 Span	
In.	mm		lb.	N	In.	mm	lb.	N	lb.	N
12	305	CR210	2325	10342	.014	.35	2325	10342	2325	10342
		CR211	1220*	5427	.001	.02	1220*	5427	1220*	5427
24	609	CR210	1163	5173	.057	1,45	1163	5173	1163	5173
		CR211	1220*	5427	.012	.30	1220*	5427	1220*	5427
36	914	CR210	775	3447	.128	3.25	775	3447	603	2682
		CR211	1220*	5427	.040	1.01	1220*	5427	1220*	5427
48	1219	CR210	581	2584	.228	5.79	509	2264	339	1508
		CR211	1220*	5427	,096	2.44	1220*	5427	1220*	5427
60	1524	CR210	465	2068	.357	9,07	326	1450	217	965
		CR211	1220*	5427	.188	4.77	1220*	5427	1076	4786
72	1829	CR210	388	1726	.514	13.05	226	1005	151	671
		CR211	1052	4679	.281	7.14	1052	4679	747	3323
84	2133	CR210	332	1477	,699	17.75	166	738	111	494
		CR211	902	4012	.383	9.73	824	3665	549	2442
96	2438	CR210	291	1294	.913	23.19	127	565	85	378
		CR211	789	3509	.500	12.70	631	2807	420	1868
108	2743	CR210	258	1147	1,156	29.36	101	449	67	298
		CR211	702	3122	.633	16.08	498	2215	332	1477
120	3048	CR210	233	1036	1.427	36.24	81	360	54	240
		CR211	631	2807	.782	19.86	4134	1797	269	1196

Based on a simple beam condition using an allowable design stress of 25000 psi (172 MPa) with adequate lateral bracing. To determine concentrated load capacity at mid span, multiply uniform load by 0.5 and corresponding deflection by 0.8. *Limited by spot weld shear

For half slot loading use multiplier .85

Column Loading

Unbraced Height		Channel Style	Maximum Column Loading K = .80 Loaded at C.G.		Loaded at Slot Face		Maximum Column Loading (Loaded at C.G.) K = .65		K = 1.0		K = 1.2	
In.	mm		lb.	N	lb.	N	lb.	N	lb.	N	lb.	N
12	305	CR210	4002	17802	2216	9857	4032	17935	3952	17579	3891	17308
		CR211	8151	36257	3430	16147	R163	36311	8133	36177	8109	36070
24	609	CR210	3740	16636	2109	9381	3857	17157	3554	15805	3336	14838
		CR211	8051	35812	3591	15973	8096	36013	7975	35474	7883	35065
36	914	CR210	3336	11839	1941	8634	3579	15920	2962	13175	2546	11325
		CR211	7883	35065	3528	15693	7986	35523	7713	34309	7505	33384
48	1219	CR210	2828	12579	1725	7613	3217	14310	2251	10013	1705	7584
		CR211	7648	34020	3441	15306	7831	34834	7346	32676	6977	31035
60	1524	CR210	2251	10013	1469	6534	2793	12424	1603	7130	1233	5484
		CR211	7346	32676	3066	13638	7631	33944	6874	30577	6298	28015
72	1829	CR210	1705	7584	1203	5351	2326	10346	1233	5484	967	4301
		CR211	6977	31035	2385	10609	7388	32863	6298	28015	5467	24318
84	2133	CR210	1358	6010	1011	4497	1851	8233	1003	4461	797	3545
		CR211	6541	29096	1884	8380	7100	31582	5616	24981	4486	19955
96	2438	CR210	1129	5022	871	3874	1513	6730	847	3767	680	3025
		CR211	6038	26858	1512	6726	6767	30101	4830	21485	3463	15404
108	2743	CR210	967	4301	746	3407	1277	5680	734	3265	592**	2633
		CR211	5467	24318	1231	5476	6391	28428	3940	17526	2736	12170
120	3048	CR210	847	3767	684	3042	1105	4915	648	2881	523**	2326
		CR211	4830	21485	1015	4515	5970	26556	3192	14199	2216**	9857

Column loads assume no lateral support

** $\frac{KL}{r}$ exceeds 200

Beam Loading

Beam Span		Channel Style	Uniform Load and Deflection				Uniform Load at Deflection = 1/240 Span		1/360 Span	
In.	mm		lb.	N	In.	mm	lb.	N	lb.	N
12	305	CR400	1538	6841	.022	.56	1538	6841	1538	6841
		CR401	1590*	7072	.005	.13	1590*	7072	1590*	7072
24	609	CR400	769	3420	.088	2.23	769	3420	582	2589
		CR401	1590*	7072	.038	.96	1590*	7072	1590*	7072
36	914	CR400	513	2282	.198	5.03	388	1726	259	1152
		CR401	1428	6352	.114	2.89	1428	6352	1248	5551
48	1219	CR400	384	1708	.352	8.94	218	970	145	645
		CR401	1071	4764	.203	5.15	1053	4684	702	3122
60	1524	CR400	308	1370	.550	13.97	140	623	93	413
		CR401	857	3812	.318	8.08	674	2998	449	1997
72	1829	CR400	256	1139	.792	20.11	97	431	65	289
		CR401	714	3716	.457	11.61	468	2082	312	1388
84	2133	CR400	220	978	1.079	27.40	71	316	48	213
		CR401	612	2722	.623	15.82	344	1530	229	1018
96	2438	CR400	192	854	1.409	35.79	55	244	36	160
		CR401	535	2380	.813	20.65	263	1170	176	783
108	2743	CR400	171	760	1.783	45.29	43	191	29	129
		CR401	476	2117	1.029	26.13	208	925	139	618
120	3048	CR400	154	685	2.202	55.93	35	155	23	102
		CR401	428	1904	1.271	32.28	168	747	112	498

Based on a simple beam condition using an allowable design stress of 25000 psi (172 MPa) with adequate lateral bracing. To determine concentrated load capacity at mid span, multiply uniform load by 0.5 and corresponding deflection by 0.8. *Limited by spot weld shear

For half slot loading use multiplier .85

Column Loading

Unbraced Height		Channel Style	Maximum Column Loading K = .80: Loaded at C.G.		Loaded at Slot Face		Maximum Column Loading (Loaded at C.G.): K = .65		K = 1.0		K = 1.2	
In.	mm		lb.	N	lb.	N	lb.	N	lb.	N	lb.	N
12	305	CR400	9138	40648	3493	15537	9283	41293	8916	39660	8670	38566
		CR401	21094	93831	5834	25951	21304	94765	20793	92492	20469	91050
24	609	CR400	8137	36195	3145	13989	8540	37988	7589	33757	7050	31360
		CR401	19757	87883	5585	24843	20299	90294	18964	84356	18094	80486
36	914	CR400	7050	31360	2722	12108	7657	34060	5925	26356	4335	19283
		CR401	18094	80486	5237	23295	19067	84814	16654	74080	15057	66977
48	1219	CR400	5405	24042	2227	9906	6786	30185	3512	15622	2439	10849
		CR401	16139	71790	4818	21431	17632	78431	13906	61857	11387	50652
60	1524	CR400	3512	15622	1718	7642	5272	23451	2247	9995	1561**	6943
		CR401	13096	61857	4352	19358	16008	71207	10710	47640	7531	33499
72	1829	CR400	2439	10849	1351	6009	3694	16432	1561**	6943	1084**	4822
		CR401	11387	50652	3856	17152	14200	64165	7531	33499	5230	23264
84	2133	CR400	1792	7971	1087	4835	2714	12072	1147**	5102	796**	3541
		CR401	8645	38455	3332	14821	12206	54295	5533	24612	3842	17090
96	2438	CR400	1372**	6103	891	3963	2078	9243	878**	3905	-	-
		CR401	6619	29443	2873	12780	10012	44535	4236	18842	2942**	13086
108	2743	CR400	1084**	4822	743	3305	1642	7304	-	-	-	-
		CR401	5230	23264	2495	11098	7922	35239	3347	14888	2324**	10337
120	3048	CR400	878**	3905	628	2793	1330**	5916	-	-	-	-
		CR401	4236	18842	2182	9706	6417	28544	2711**	12059	1883**	8376

Column loads assume no lateral support

** $\frac{KL}{r}$ exceeds 200

Beam Loading

Beam Span		Channel Style	Uniform Load and Deflection				Uniform Load at Deflection = 1/240 Span		1/360 Span	
In.	mm		lb.	N	In.	mm	lb.	N	lb.	N
12	305	CR500	930	4137	.027	.68	930	4137	930	4137
		CR501	870*	3870	.005	.13	870*	3870	870*	3870
24	609	CR500	465	2068	.108	2.74	430	1913	287	1276
		CR501	870*	3870	.043	1.09	870*	3870	870*	3870
36	914	CR500	310	1379	.243	6.17	191	849	127	565
		CR501	832	3701	.141	3.58	832	3701	591	2629
48	1219	CR500	233	1036	.432	10.97	108	480	72	320
		CR501	624	2775	.250	6.35	499	2219	332	1477
60	1524	CR500	186	817	.676	17.17	69	307	46	204
		CR501	499	2219	.391	9.93	319	1419	213	947
72	1829	CR500	155	689	.973	24.71	48	213	32	142
		CR501	416	1850	.563	14.30	222	987	148	658
84	2133	CR500	133	591	1.324	33.63	35	155	23	102
		CR501	357	1588	.766	19.45	163	725	109	485
96	2438	CR500	116	516	1.730	43.94	27	120	18	80
		CR501	312	1388	1.001	25.42	125	556	83	369
108	2743	CR500	103	458	2.189	55.60	21	93	14	62
		CR501	277	1232	1.267	32.18	98	436	66	293
120	3048	CR500	93	413	2.703	68.65	17	75	11	49
		CR501	250	1112	1.564	39.72	80	356	53	236

Based on a simple beam condition using an allowable design stress of 25000 psi (172 MPa) with adequate lateral bracing. To determine concentrated load capacity at mid span, multiply uniform load by 0.5 and corresponding deflection by 0.8. *Limited by spot weld shear

For half slot loading use multiplier .85

Column Loading

			Maximum Column Loading K = .80				Maximum Column Loading (Loaded at C.G.)					
Unbraced Height		Channel Style	Loaded at C.G.		Loaded at Slot Face		K = .65		K = 1.0		K = 1.2	
In.	mm		lb.	N	lb.	N	lb.	N	lb.	N	lb.	N
12	305	CR500	6186	27516	2586	11503	6284	27952	6032	26831	5857	26053
		CR501	12753	56772	4060	18060	12835	57093	12645	56248	12501	55607
24	609	CR500	5464	24305	2254	10026	5763	25635	4968	22099	4300	19127
		CR501	12135	53979	3857	17157	12420	55247	11663	51879	11087	49317
36	914	CR500	4300	19127	1816	8078	5043	22432	3076	13683	2136	9501
		CR501	11087	49317	3549	15787	11728	52169	10026	44598	8729	38828
48	1219	CR500	2703	12023	1341	5965	3920	17437	1730	7695	1201	5342
		CR501	9620	42792	3169	14096	10759	47858	7734	34402	5571	24781
60	1524	CR500	1730	7695	995	4426	2621	11659	1107**	4924	769**	3420
		CR501	7734	34402	2745	12210	9514	42320	5134	22837	3566	15862
72	1829	CR500	1201	5342	763	3394	1820	8096	769**	3420	534**	2375
		CR501	5571	24781	2291	10191	7992	35550	3566	15862	2476	11014
84	2133	CR500	883**	3928	603	2682	1337	5949	565**	2513	-	-
		CR501	4093	18206	1913	8509	6200	27579	2620	11654	1819**	8091
96	2438	CR500	676**	3007	487	2166	1024**	4555	-	-	-	-
		CR501	3134	13941	1616	7188	4747	21116	2006**	8923	1393**	6196
108	2743	CR500	534**	2375	401	1784	809**	3598	-	-	-	-
		CR501	2476	11014	1380	6138	3751	16685	1585**	7050	1100**	4893
120	3048	CR500	-	-	336	1494	655**	2913	-	-	-	-
		CR501	2006**	8923	1190	5293	3038	13513	1284**	5711	-	-

Column loads assume no lateral support

** $\frac{KL}{r}$ exceeds 200

Beam Loading

Beam Span		Channel Style	Uniform Load and Deflection				Uniform Load at Deflection = 1/240 Span		1/360 Span	
In.	mm		lb.	N	In.	mm	lb.	N	lb.	N
12	305	CR510	809	3598	.027	.68	809	3598	809	3598
		CR511	610*	2713	.004	.10	610*	2713	610*	2713
24	609	CR510	405	1801	.109	2.77	372	1655	248	1103
		CR511	610*	2713	.035	.89	610*	2713	610*	2713
36	914	CR510	270	1201	.245	6.22	165	734	110	489
		CR511	610*	2713	.121	3.07	610*	2713	502	2233
48	1219	CR510	202	898	.435	11.05	93	413	62	276
		CR511	530	2357	.250	6.35	423	1881	282	1699
60	1524	CR510	162	720	.680	17.27	59	262	40	178
		CR511	424	1886	.391	9.93	271	1205	181	805
72	1829	CR510	135	600	.980	24.89	41	182	28	124
		CR511	353	1570	.563	14.30	188	836	125	556
84	2133	CR510	116	516	1.334	33.88	30	133	20	89
		CR511	303	1348	.766	19.45	138	614	92	409
96	2438	CR510	101	449	1.742	44.24	23	102	15	67
		CR511	265	1179	1.001	25.42	106	471	71	316
108	2743	CR510	90	400	2.205	56.01	18	80	12	53
		CR511	236	1050	1.267	32.18	84	373	56	249
120	3048	CR510	81	360	2.722	69.14	15	67	10	44
		CR511	212	943	1.564	39.72	68	302	45	200

Based on a simple beam condition using an allowable design stress of 25000 psi (172 MPa) with adequate lateral bracing. To determine concentrated load capacity at mid span, multiply uniform load by 0.5 and corresponding deflection by 0.8. *Limited by spot weld shear

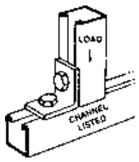
For half slot loading use multiplier .85

Column Loading

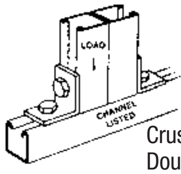
Unbraced Height		Channel Style	Maximum Column Loading K = .80 Loaded at C.G.		Loaded at Slot Face		Maximum Column Loading (Loaded at C.G.) K = .65		K = 1.0		K = 1.2	
In.	mm		lb.	N	lb.	N	lb.	N	lb.	N	lb.	N
12	305	CR510	4968	22099	2182	9706	5044	22437	4845	21551	4702	20915
		CR511	10237	45536	3365	14968	10291	45776	10148	45140	10039	44655
24	609	CR510	4367	19425	1903	8465	4624	20568	3985	17726	3572	15889
		CR511	9762	43423	3202	14243	9977	44380	9405	41835	8969	39896
36	914	CR510	3572	15889	1557	6926	4034	17944	2658	11823	1845	8207
		CR511	8969	39896	2955	13144	9454	42053	8167	36328	7186	31965
48	1219	CR510	2335	10386	1164	5178	3290	14634	1495	6650	1038	4617
		CR511	7860	34963	2649	11783	8722	38797	6434	28620	4731	21044
60	1524	CR510	1495	6650	862	3834	2264	10071	957	4257	664**	2953
		CR511	6434	28620	2307	10262	7780	34607	4360	19394	3028	13469
72	1829	CR510	1038	4617	661	2940	1572	6992	664**	2953	461**	2050
		CR511	4731	21044	1937	8616	6629	29487	3028	13469	2103	9354
84	2133	CR510	763**	3394	522	2322	1155	5137	488**	2171	-	-
		CR511	3476	15462	1619	7201	5269	23437	2224	9893	1545**	6872
96	2438	CR510	584**	2598	422	1877	884**	3932	-	-	-	-
		CR511	2661	11837	1368	6085	4031	17931	1703**	7575	1183**	5262
108	2743	CR510	461**	2050	348	1548	699**	3109	-	-	-	-
		CR511	2103	9354	1169	5200	3185	14167	1346**	5987	934**	4154
120	3048	CR510	-	-	291	1294	566**	2517	-	-	-	-
		CR511	1703**	7575	1008	4484	2580	11476	1090**	4848	-	-

Column loads assume no lateral support

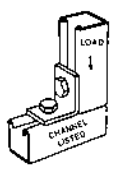
** $\frac{KL}{r}$ exceeds 200



Crush Load
Middle of Member



Crush Load
Double-Channel
Middle of Member



Crush Load
End of Member

Pull-Out and Slip Load Data

Channel	Spring Nut	*Resistance to Slip (lb. per bolt)		*Resistance to Pull-Out (lb. per bolt)	
		Safety Factor		Safety Factor	
		3	5	3	5
CR150	**CR10R**	1500	900	2000	1200
CR200	**CR10R**	1500	900	2000	1200
CR400	**CR10R**	1500	900	2000	1200
CR500	**CR10R**	800	450	800	450

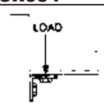
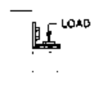
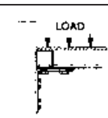
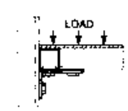
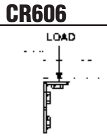
*Nut and bolt tightened to 60 ft,/lb. torque. Nuts used are 1/2" - 13 tap size

Crush Load

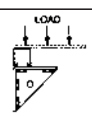
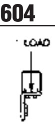
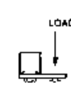
Channel	Middle of Member	Double-Channel Middle of Member	End of member
	Recommended Load (lb.)*	Recommended Load (lb.)*	Recommended Load (lb.)*
CR150	3000	5000	2000
CR200	2500	4000	1750
CR400	2500	4000	1750
CR500	2000	3000	1500

*Safety Factor of 5

90 Degree Fittings (when used in positions shown)

Channel Thickness	**CR603, CR604**		**CR603, CR604**		**CR607**		**CR605, CR606**		**CR605, CR606**	
										
	lb.	kN	lb.	kN	lb.	kN	lb.	kN	lb.	kN
12 gauge	1500	6.7	1000	4.4	2000	8.9	1500	6.7	2000	8.9
14 gauge	1000	4.4	650	2.9	2000	8.9	1000	4.4	1500	6.7
16 gauge	750	3.3	500	2.2	1500	6.7	1000	4.4	900	4.0

90 Degree Fittings (when used in positions shown) / *Flat Plate Fittings*

Channel Thickness	**CR608**		**CR603, CR604**		**CR605, CR606**		**CR605,606**		**CR601**	
										
	lb.	kN	lb.	kN	lb.	kN	lb.	kN	lb.	kN
12 gauge	3000	13.3	500	2.2	500	2.2	1200	5.3	1000	4.4
14 gauge	2000	8.9	500	2.2	500	2.2	1200	5.3	800	3.6
16 gauge	1500	6.7	500	2.2	500	2.2	1000	4.4	600	2.7

Material Data

All COMSTRUT Strut fittings are cold formed in punch press dies from hot rolled, mild, pickled and oiled bar or strip steel, unless otherwise noted. Stainless steel is also available.

Dimension Data

Standard dimensions on all fittings are as follows, except where as specified.

Hole spacing = 1-7/8" on centres and 13/16" from end of fitting
Hole diametre = 9/16"
Fitting width = 1-5/8"
Fitting Thickness = 1/4"

Application Data

All fittings can be used with any Comstrut channel.

Load Data

Design load data, where shown, have a safety factor of 3 or 5 as noted, based on the ultimate strength of the connection. Design loads are based on the bolts tightened to a torque of 60 ft. lb. for 12 and 14 gauge channels.

Standard Finish – Hot Dip Galvanized

All COMSTRUT fittings in this section are available in hot dip galvanized finish, unless otherwise noted.

To Convert From	To	Multiply by	To Convert From	To	Multiply by
Length					
Inch [in]	Millimetre [mm]	25.400 000	Millimetre [mm]	Inch [in]	0.039 370
Foot [ft]	Metre [m]	0.304 800	Metre [m]	Foot [ft]	3.280 840
Yard [yd]	Metre [m]	0.914 400	Metre [m]	Yard [yd]	1.093 613
Mile (U.S. Statute)[mi]	Kilometre [km]	1.609 347	Kilometre [km]	Mile (U.S. Statute)[mi]	0.621 370
Area					
Square Inch [in²]	Square Millimetre [mm²]	645.16	Square Millimetre [mm²]	Square" [in²]	0.001 550
Square Foot [ft²]	Square Metre [m²]	0.092 903	Square Metre [m²]	Square Foot [ft²]	10.763 915
Square Yard [yd²]	Square Metre [m²]	0.836 127	Square Metre [m²]	Square Yard [yd²]	1.195 991
Square Mile (U.S. Statute) [mi²]	Square Kilometre [km²]	2.589 998	Square Kilometre [km²]	Square Mile (U.S. Statute) [mi²]	0.386 101
Acre	Square Metre [m²]	4046.873	Square Metre [m²]	Acre	0.000 247
Acre	Hectare	0.404 687	Hectare	Acre	2.471 046
Volume					
Cubic Inch [in³]	Cubic Millimetre [mm³]	16387.06	Cubic Millimetre [mm³]	Cubic" [in³]	0.000 061
Cubic Foot [ft³]	Cubic Metre [m³]	0.028 317	Cubic Metre [m³]	Cubic Foot [ft³]	35.314 662
Cubic Yard [yd³]	Cubic Metre [m³]	0.764 555	Cubic Metre [m³]	Cubic Yard [yd³]	1.307 950
Gallon (U.S. Liquid) [gal]	Litre [l]	3.785 412	Litre [l]	Gallon (U.S. Liquid) [gal]	0.264 172
Quart (U.S. Liquid) [qt]	Litre [l]	0.946 353	Litre [l]	Quart (U.S. Liquid) [qt]	1.056 688
Mass					
Ounce (Avoirdupois) [oz]	Gram [g]	28.349 520	Gram [g]	Ounce (Avoirdupois) [oz]	0.035 274
Pound (Avoirdupois) [lb]	Kilogram [kg]	0.453 592	Kilogram [kg]	Pound (Avoirdupois) [lb]	2.204 624
Short Ton	Kilogram [kg]	907.185	Kilogram [kg]	Short Ton	0.00110
Force					
Ounce-Force	Newton [N]	0.278 014	Newton [N]	Ounce-Force	3.596 941
Pound-Force [lbf]	Newton [N]	4.448 222	Newton [N]	Pound-Force [lbf]	0.224 809
Bending Moment					
Pound-Force-Inch [lbf-in]	Newton-Metre [N-m]	0.112 985	Newton-Metre [N-m]	Pound-Force-Inch [lbf-in]	8.850 732
Pound-Force-Foot [lbf-ft]	Newton-Metre [N-m]	1.355 818	Newton-Metre [N-m]	Pound-Force-Foot [lbf-ft]	0.737 562
Pressure, Stress					
Pound-Force per Square Inch [lbf/in²]	Kilopascal [kPa]	6.894 757	Kilopascal [kPa]	Pound-Force per Square Inch [lbf/in²]	0.145 038
Foot of Water (39.2 F)	Kilopascal [kPa]	2.988 980	Kilopascal [kPa]	Foot of Water (39.2 F)	0.334 562
Inch of Mercury (32 F)	Kilopascal [kPa]	3.386 380	Kilopascal [kPa]	Inch of Mercury (32 F)	0.295 301
Energy, Work, Heat					
Foot-Pound-Force [ft-lbf]	Joule [J]	1.355 818	Joule [J]	Foot-Pound-Force [ft-lbf]	0.737 562
British Thermal Unit [Btu]	Joule [J]	1055.056	Joule [J]	British Thermal Unit [Btu]	0.000 948
Calorie [cal]	Joule [J]	4.186 800	Joule [J]	Calorie [cal]	0.238 846
Kilowatt Hour [kW-h]	Joule [J]	3 600 000	Joule [J]	Kilowatt Hour [kW-h]	2.78^{-7}
Power					
Foot-Pound-Force/Second [ft-lb./s]	Watt [W]	1.355 818	Watt [W]	Foot-Pound-Force/Second [ft-lb./s]	0.737 562
British Thermal Unit/Hour [Btu/h]	Watt [W]	0.293 071	Watt [W]	British Thermal Unit/Hour [Btu/h]	3.412 142
Horsepower (550 ft. lbf/s) [hp]	Kilowatt [kW]	0.745 700	Kilowatt [kW]	Horsepower (550 ft. lbf/s) [hp]	1.341 022
Angle					
Degree	Radian [rad]	0.017 453	Radian [rad]	Degree	57.295 788
Temperature					
Degree Fahrenheit [F]	Degree Celsius [C]	(F° -32) /1.8	Degree Celsius [C]	Degree Fahrenheit [F]	1.8 x C°+32