



Table of Contents

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Finishes and Materials	A2
Channels and Concrete Inserts	A3–A7
Threaded Products and Hardware	A8–A12
Fittings and Brackets	A13–A23
Beam Clamps	A24–A32
Pipe Straps, Pipe Clamps and Hangers	A33–A46
Hanger Accessories	A47
Surface Raceway and Lighting Systems	A48–A54
Right Angle Slotted Metal Framing	A55–A56
Engineering Data & Specifications	A57–A73

Finishes and Materials

Finishes on Steel

Bare (Suffix BC)

Pregalvanized (Suffix PGC)

A zinc coating is applied to the steel coil at the mill prior to fabrication. Once the material is worked by roll-forming, cutting, or punching, minimal protection is provided for raw edges. This weakness is typical with pre-coated material and affects the channel section around holes, extreme ends, and the edges of the U-shape lips. Superstrut® pregalvanized material is in conformance with ASTM A-525/G-90 specification standards, representing 0.90 oz. of zinc per square foot of steel. This finish is often referred to as “mill galvanized.”

Electrogalvanized (Suffix EGC)

Often referred to as “zinc plated” or “electroplated zinc,” the steel and 0.5 mils of zinc are bonded by an electrolysis process. Electrogalvanizing is most commonly applied to small fittings, hardware, and threaded products.

GoldGalv® (No Suffix)

Gold coloured zinc dichromate is applied over the zinc, producing a chemically bonded non porous barrier for protection from moisture and air. This extends the protective life of the zinc, and provides an excellent base for paint, if desired. The GoldGalv® hardware finish also provides a low electrical resistance when grounding of the system is required. Superstrut® channel and fittings are plated after fabrication, so there are no unprotected edges from cutting or punching. Where field cutting is necessary or scratches occur due to construction handling, you still have the sacrificial protection of the plated zinc to minimize the corrosion of raw edges and prevent spreading.

Hot-Dipped Galvanized (Suffix HDGC)

The material is zinc coated after fabrication providing total product protection on all surfaces. The fabricated channel or fitting is suspended and then dipped into tanks of hot zinc for a prolonged period, creating a coherent bond. The result is superior corrosion resistance as compared to pregalvanized material. Hot-dipped galvanizing is not recommended for threaded products, considering the zinc coating thickness will often disrupt the threads. Superstrut® hot-dipped galvanized is in conformance with ASTM Specifications A-123 (formerly A-386) and A-153. Superstrut channels maintain a minimum 1.5 oz. of zinc per square foot of steel or 2.5 mils (ASTM A-123, Thickness Grade 65). This finish is also referred to as “Hot-dipped galvanized after fabrication”.

Epoxy Powder Coated — Green, Grey or White (Suffix GR, GY or WH)

Epoxy powder resins are applied electrostatically to the steel after fabrication. Once the material is completely covered with the powder-form epoxy, it proceeds through a 400°F (204°C) baking process for ten minutes, creating a chemical bond. This results in a minimum of 1.5 mil thickness of epoxy coating providing excellent resistance to chipping or peeling.

Special Materials

Aluminum (Suffix ALC)

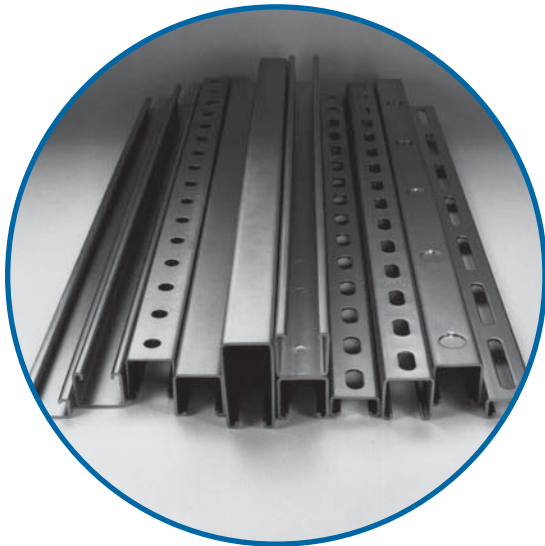
Superstrut® channel is available in aluminum. Fittings in HDG finish or fiberglass material are suggested for fastening products.

Stainless Steel (Suffix SS)

Superstrut® channel is supplied in Type 316 (T316L) stainless steel. All fittings and accessories are in 316SS (SS6). Contact your Regional Sales Office for availability.

Thomas & Betts reserves the right to change material and finish specifications without notice, to improve its products.

Channels and Concrete Inserts



Channels

Material

Steel channels are cold-roll formed from strip steel. Aluminum and Fiberglass channels are extruded profiles.

Material Thickness

All Series 1200	12 gauge material
All Series 1400	14 gauge material
All Series 1600	16 gauge ribbed material

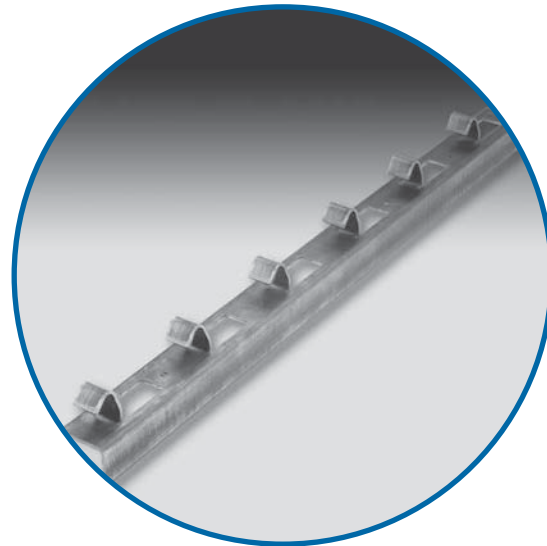
Standard Lengths

Standard lengths for channels are 10 ft. and 20 ft. with a tolerance of +1/8 in. Special lengths can be requested; however, minimum quantities may apply. Channels are sold per foot.

Warning

Load tables, charts, and design criteria provided in this catalogue are intended as guides only. Selection of proper product, support spacing, erection, and placement are the responsibility of the user.

When improperly used as tools of erection, pipe hanger products have occasionally failed. To avoid an accident, the user is cautioned to use the product only as it was intended.



Concrete Inserts

Material

Superstrut continuous insert channel is manufactured from 12 gauge hot rolled strip steel in two basic sizes as follows:

Cat. No. A302

1-5/8 in. x 1-5/8 in. 7/8 in. slot

Cat. No. C302

1-5/8 in. x 1-3/8 in. 7/8 in. slot

Standard Lengths

Standard lengths are 10 ft. and 20 ft. Product is supplied with foam filler and end caps to prevent concrete from seeping into channel.

Application

For casting into concrete walls, floors or ceilings to provide for attachment anywhere along the continuous slot.

Design Data

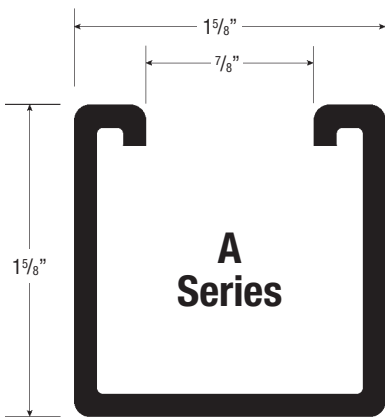
Load ratings as shown have a safety factor of 3 in 3000 lb. hard rock concrete. Where sound concrete does not exist, the load ratings shall not apply.

GoldGalv® hardware finish is standard for all Superstrut Concrete insert products. This is a multi-process finish of electro-plated zinc, followed by gold coloured zinc dichromate to give excellent corrosion resistance and a superior paint base.

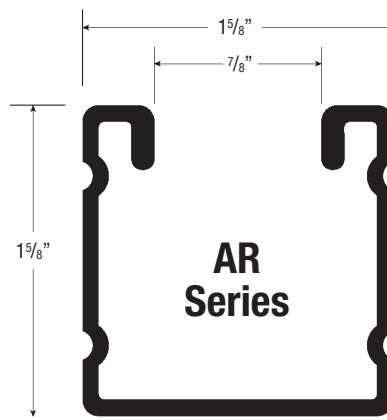
For more information on load design, see page A57 for Engineering Data and Specifications.

Channels and Concrete Inserts

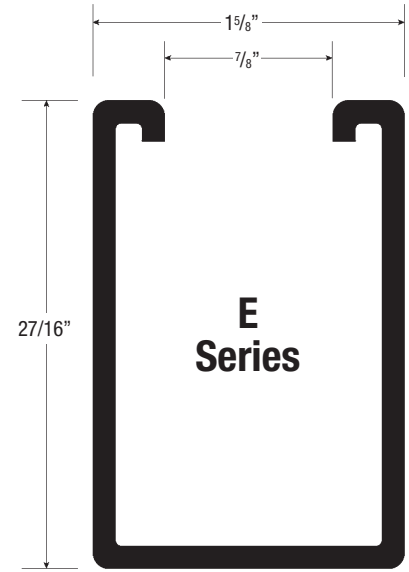
Channels at Full Scale
Available in 10 and 20 foot length



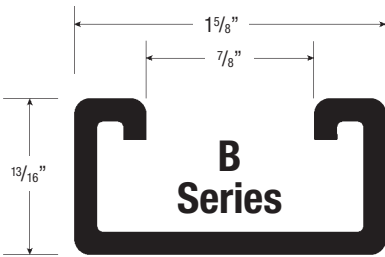
A Series
A1200 12 gauge
A1400 14 gauge



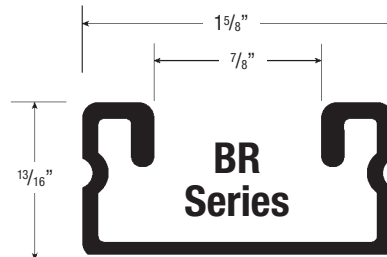
AR Series
16 gauge only



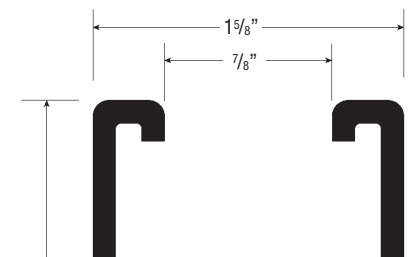
E Series
E1200 12 gauge



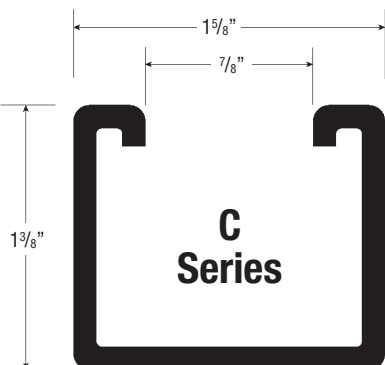
B Series
B1200 12 gauge
B1400 14 gauge



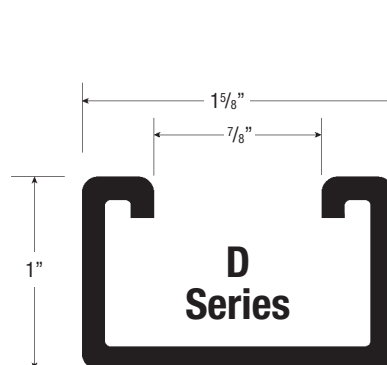
BR Series
16 gauge only



H Series
H1200 12 gauge



C Series
C1200 12 gauge



D Series
D1200 12 gauge

Channels and Concrete Inserts

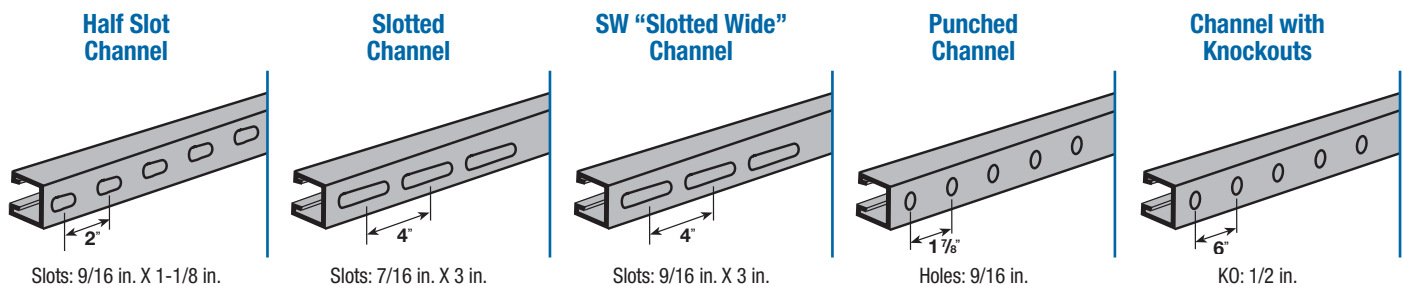
Channel Selection Chart

CHANNEL	HOLE CONFIGURATIONS					LENGTH	FINISH ON STEEL						SPECIAL MATERIALS			
	HS	S	SW	P	KO		ft.	B(C)	PG(C)	EG(C)	GoldGalv®	HDG(C)	GR(C),GY(C),WH(C)	AL(C)	T316L	SS6(C)
A1200						10 or 20										
A1400						10 or 20										
AR1600						10 or 20										
B1200						10 or 20										
B1400						10 or 20										
BR1600						10 or 20										
C1200						10 or 20										
D1200						10 or 20										
E1200						10 or 20										
H1200						10 or 20										

Legend

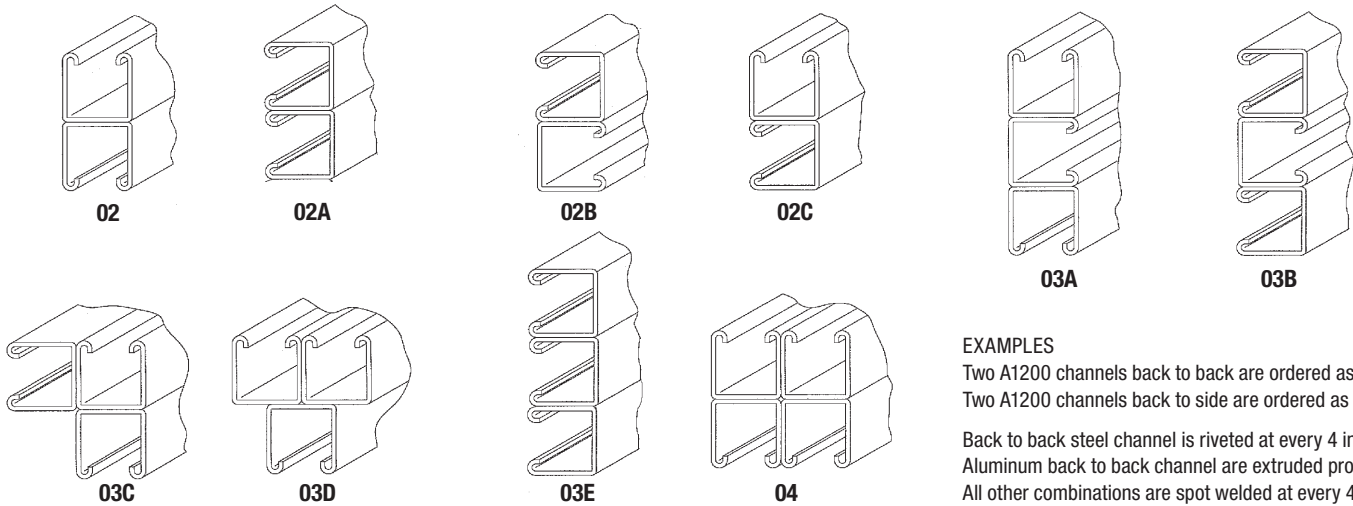
EXAMPLES	HOLE CONFIGURATION		FINISH ON STEEL		SPECIAL MATERIALS	
	Suffix		Suffix		Suffix	
A120010PG Plain channel, 10 ft., pre-galvanized finish	blank	Plain, no holes	BC	Bare	AL	Aluminum
	HS	Half slot	PGC	Pre-galvanized	SS6 (C)	Stainless Steel Type 316
B1400P10 Punched channel, 10 ft., GoldGalv® finish	S	Slotted	EGC	Electrogalvanized	T316L	Stainless Steel Type 316L
	SW	Slotted wide	Blank	GoldGalv®		
	P	Punched	HDGC	Hot dipped galvanized		
E1200HS20HDG Half slot channel, 20 ft. hot dipped galvanized	KO	Knockout	GR,GY,WH	Epoxy paint in green (GR), grey (GY), or white (WH)		
		Standard offering		A minimum order quantity may apply		

Hole Configuration



Channels and Concrete Inserts

Welded Combinations



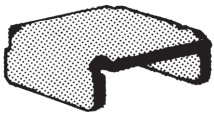
EXAMPLES

Two A1200 channels back to back are ordered as A1202.
Two A1200 channels back to side are ordered as A1202C.

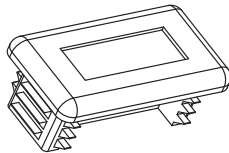
Back to back steel channel is riveted at every 4 inches.
Aluminum back to back channel are extruded profiles.
All other combinations are spot welded at every 4 inches.
E and H series are not available in triple and quadruple.

End Caps and Closure Strips

A804 End Cap

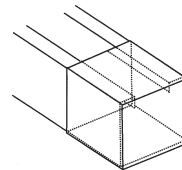


RAWSEC End Cap for D1200 Channel



Cat. No.	For Channel	Wt./C lb.
A804EG	A1200	10
	A1400 AR1600	10
B804EG	B1400 BR1600	5
C804EG	C1200	8
E804EG	E1200	15
H804	H1400	20
RAWSEC	D1200	5 g (0.18 oz)

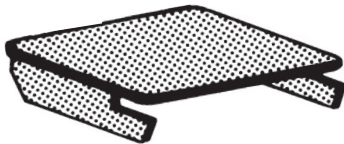
Safety End Cap



Cat. No.	For Channel	Wt./C lb.
A804NEOPWH	A1200 AR1600	1.75
	A1400	
B804NEOPWH	B1200 BR1600	5
H804NEOPWH	H1200	2

1-5/8 in. x 1-5/8 in. White Plastisol

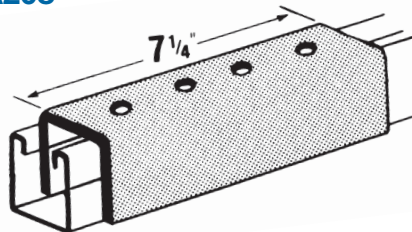
A243-1EGC End Cap



For A1200 Channel

Wt./C 16 lb.

A208



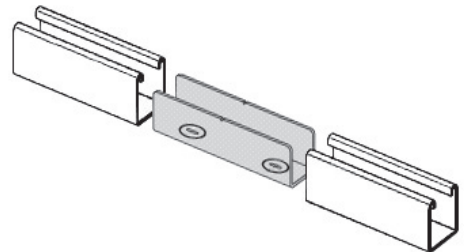
A208HDGC A208EG

Does not include stud nut or bolts.

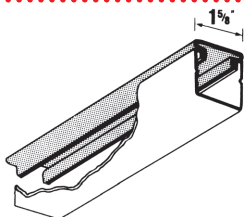
A208 A208SS6C

For A and AR Series channel. Wt./C 275 lb.

A213 Inside Joiner



For A1200 Series only.
Available only in GoldGalv® finish.



AB844PGC

Pre-Galvanized Closure Strip

AB844PCGY

Plastic Closure Strip
Colour: Grey

AB844PC

Plastic Closure Strip
Colour: Gold

For all channel. Standard lengths 10 ft.

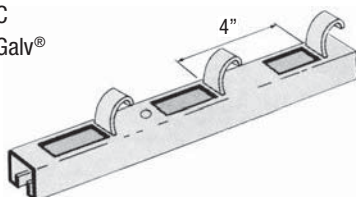
Channels and Concrete Inserts

Concrete inserts

Concrete Channel Inserts

***Finishes**

- HDGC
- GoldGalv®
- PGC



Insert with end caps and foam closure strip installed.

Cat. No.	Length (ft.)	Gauge	Wt. (lb./ft.)
A302-10*	10	12	2.19
A302-20*	20		2.19
B302-10*	10		1.36
B302-20*	20		1.36

Design Load 2000 lb. per foot in hard rock concrete with a safety factor of 3.

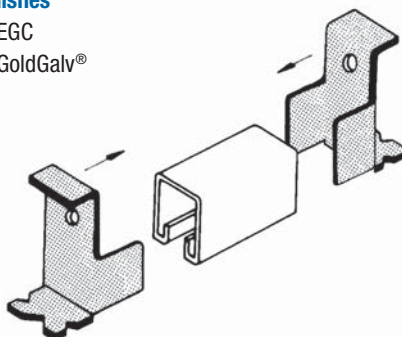
Standard lengths: 10 ft. and 20 ft.

Length tolerance: 3/16 in.

Anchor Caps

***Finishes**

- EGC
- GoldGalv®



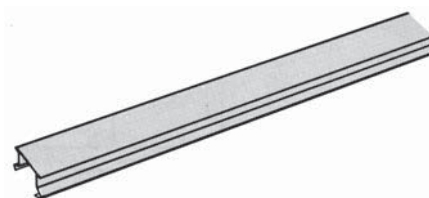
12 gauge, Wt./C: 30 lb./C

A450* For A Series

C450* For C Series

From pieces of A, B, C channel and a pair of anchor caps, short concrete inserts can be fabricated in the field.

460-10TB Removable Plastic Closure Strip



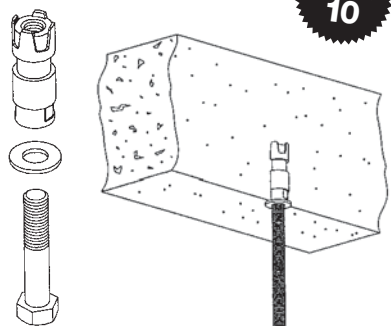
Designed as an added precaution to keep insert free of concrete. Closure strip fits all 1-5/8 in. wide strip inserts, regardless of depth.

Order per 10 foot, standard length is 10 ft.

Material – Black Plastic

Wt./C 52 lb.

SI400 Spot Insert Kit



Cat. No.	Thred size	O.D. Insert	Wt./C lb.
SI400-3/8	3/8 – 16	2x5/8	10
SI400-1/2	1/2x13x1-1/4	2-1/2x7/8	35

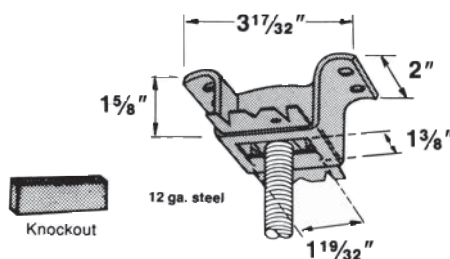
Other sizes available.

Maximum recommended load:

SI400-3/8 = 450 lb./204 kg

SI400-1/2 = 1000 lb./454 kg

452TB Spot Insert



Standard Finish – GoldGalv®

An insert with a knockout saves covering the opening. Accommodates hanger rod sizes from 1/4 in. through 7/8 in. by means of an AB102 insert nut, to be ordered separately.

Design load: 1350 lb. in 3000 lb. hard rock concrete with a safety factor of 3.

Complies with Specification MSS SP69, Type 18.

Threaded Products and Hardware

Channel Nuts

Superstrut® channel nuts are manufactured from Grade 2 mild steel and are case hardened.

Design Data

Superstrut® self aligning channel nuts are designed to provide resistance to pullout and resistance to side slip in excess of the full strength of the channels with which they are used. The extreme resistance to side slip results from the unique design of the alternate teeth, spaced and designed to develop a wedging action that increases with pressure or load.

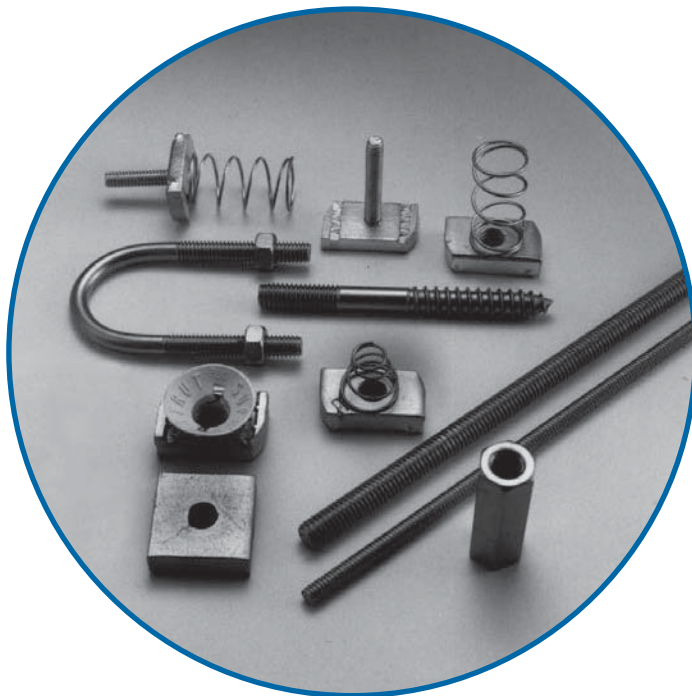
Screw Threads

All threaded products are American Standard thread, free fit class 2.

Thread Size	1/4	5/16	3/8	1/2	5/8	3/4	7/8	1
Threads per inch	20	18	16	13	11	10	9	8
Design Torque (ft.-lb.)	6	11	19	50	100	125	185	275

Finish and special materials

Standard finish for all hardware is Electrogalvanized (EGC) or GoldGalv®. Stainless Steel Type 316 is also available. Contact your Regional Sales Office for availability and minimum quantities.



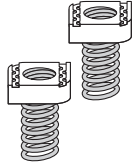
Spring Nut Selector Chart

SPRING NUT	CHANNEL SERIES					
	A - AR	B - BR	C	D	E	H
A100-1/4EGC	■		■			
A100-5/16EGC	■		■			
A100-3/8EGC	■		■			
A100-1/2EGC	■		■			
A100-3/4	■		■			
B100-1/4EGC		■		■		
B100-5/16EGC		■		■		
B100-3/8EGC		■		■		
B100-1/2EGC		■		■		
H100-3/8EGC					■	■
H100-1/2EGC					■	■
CM100-1/4	■		■	■	■	■
CM100-3/8	■		■	■	■	■
CM100-1/2	■		■	■	■	■
CM100-1/2B	■	■				
UC100-1/4	■		■	■	■	■
UC100-3/8	■		■	■	■	■
UC100-1/2	■		■	■	■	■

Threaded Products and Hardware

A100 Regular Spring Nut*

STD. PACK 100



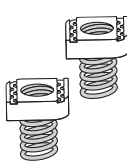
Available in stainless steel 316. Nut is square over 1/2 in. size. For all A and C Series channel and inserts.

Cat. No.	Size (in.)	Wt./C lb.
A100-1/4EGC	1/4	8
A100-5/16EGC*	5/16	9
A100-3/8EGC	3/8	10
A100-1/2EGC	1/2	12
A100-5/8EGC	5/8	19
A100-3/4	3/4	19
A100-7/8	7/8	18

* Not available in stainless steel.

B100 Short Spring Nut*

STD. PACK 100

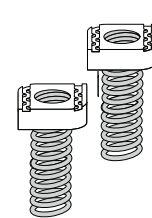


Available in Stainless Steel 316. For all B and D Series channel and inserts.

Cat. No.	Size (in.)	Wt./C lb.
B100-1/4EGC	1/4	7
B100-5/16EGC	5/16	8
B100-3/8EGC	3/8	9
B100-1/2EGC	1/2	9

H100 Long Spring Nut*

STD. PACK 100

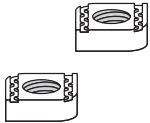


For all E and H Series channel and inserts.

Cat. No.	Size (in.)	Wt./C lb.
H100-3/8EGC	3/8	10
H100-1/2EGC	1/2	14

AB100 Springless Nut 1/4 in. thick

STD. PACK 100

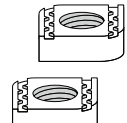


For use with all channels. Nut is square over 1/2 in. size.

Cat. No.	Size (in.)	Wt./C lb.
AB100-1/4EGC	1/4	7
AB100-5/16EGC	5/16	8
AB100-3/8EGC	3/8	9
AB100-1/2EG	1/2	9
AB100-5/8EG	5/8	10
AB100-3/4EG	3/4	10

AC100 Springless Nut Heavy duty 3/8 in. thick

STD. PACK 100



For all A, C, E and H Series channel and inserts. Nut is square over 1/2 in. size.

Cat. No.	Size (in.)	Wt./C lb.
AC100-3/8EGC	3/8	9
AC100-1/2EGC	1/2	11
AC100-5/8EGC	5/8	18
AC100-3/4EGC	3/4	18

813EG Springless Nut Light Duty

STD. PACK 100

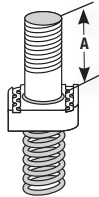


For use with all channels.

Cat. No.	Size (in.)	Wt./C lb.
813EG	1/4	5

A182 to A185 Regular Spring Stud Nut*

STD. PACK 100

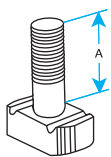


For all A and C Series channels.

Cat. No.	Bolt Dia (in.)	Length A (in.)	Wt./C lb.
A182-1/4x100EG	1/4	1	10
A182-1/4x125EG	1/4	1-1/4	15
A184-3/8x100EG	3/8	1	10
A184-3/8x125EG	3/8	1-1/4	15
A185-1/2x100EG	1/2	1	10
A185-1/2x125EG	1/2	1-1/4	15

A177 to A179 Springless Stud Nut

STD. PACK 100

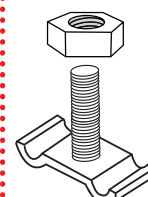


For use with all channels.

Cat. No.	Bolt Dia (in.)	Length A (in.)	Wt./C lb.
A177-1/4x100EG	1/4	1	8
A177-1/4x125EG	1/4	1-1/4	10
A179-3/8x100EG	3/8	1	13
A179-3/8x125EG	3/8	1-1/4	13.5

812 Stud Nut

STD. PACK 100

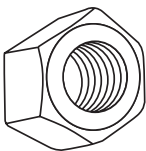


For attaching fixture to channel slot down or to channel slot up knockouts. Specify length. Hex nut included.

Cat. No.	For Channel	Wt./C lb.
812-1EG	1/4 x 1	6

E145 Standard Hex Nut

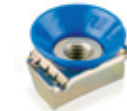
STD. PACK 100



Cat. No.	Size (in.)	Wt./C lb.
E145-1/4EGC	1/4	.72
E145-3/8EGC	3/8	1.60
E145-1/2EGC	1/2	2.78
E145-5/8EG	5/8	6.92
E145-3/4EGC	3/4	12.70
E145-7/8EGC	7/8	19.00
E145-1EGC	1	28.00

UCN Universal Nylon Cone Nut

STD. PACK 100

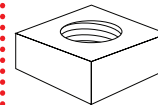


GoldGalv® only
For all 1-5/8 in. and 1-1/2 in. channels.
May be used with ALL Strut Depths.
Can be used for A100 Series, B100 Series and AB100 Series.

Cat. No.	Size (in.)	Wt./C lb.
UCN-1/4	1/4	8
UCN-3/8	3/8	10
UCN-1/2	1/2	12

AB102 Unhardened Square Nut

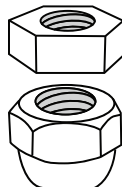
STD. PACK 100



Cat. No.	Size (in.)	Wt./C lb.
AB102-1/4	1/4	13
AB102-3/8	3/8	14
AB102-1/2	1/2	14
AB102-5/8	5/8	12
AB102-3/4	3/4	11
AB102-7/8	7/8	10

ES145 Swivel Nut and Jam Nut Combinations

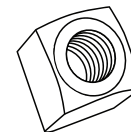
STD. PACK 100



Cat. No.	Size (in.)	Wt./C lb.
ES145-3/8	3/8	5.5
ES145-1/2	1/2	6.0

E146 Standard Square Nut

STD. PACK 100



Cat. No.	Size (in.)	Wt./C lb.
E146-1/4EG	1/4	.93
E146-5/16EG	5/16	1.60
E146-3/8EGC	3/8	2.65
E146-1/2EG	1/2	5.83
E146-5/8EG	5/8	10.80

*Supplied with a plastic sleeve over the spring portion to prevent tangling inside the carton.

Threaded Products and Hardware

E147 Flat Steel Washer

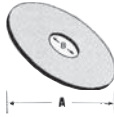


STD. PACK 100

Cat. No.	Size (in.)	Wt./C lb.
E147-1/4EG	1/4	0.67
E147-5/16EG	5/16	1.11
E147-3/8EG	3/8	1.49
E147-1/2EG	1/2	3.85
E147-5/8EG	5/8	7.69
E147-3/4EG	3/4	9.89
E147-7/8EG	7/8	15.40

Available in Stainless Steel.

EF147 Fender Washer



STD. PACK 100

Cat. No.	Size (in.)	A (in.)	B (in.)	Wt./C lb.
EF147-1/4EGC	1/4	1-1/4	5/16	3.1
EF147-3/8EGC	3/8	1-1/2	7/16	2.9
EF147-1/2EGC	1/2	2	9/16	5.0

Available in Stainless Steel.

E148 Lock Washer

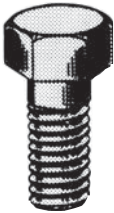


STD. PACK 100

Cat. No.	Size (in.)	Wt./C lb.
E148-1/4EG	1/4	0.26
E148-3/8EG	3/8	0.50
E148-1/2EG	1/2	1.09
E148-5/8EG	5/8	2.57

Available in Stainless Steel.

E142 Hex Head Cap Screw



STD. PACK 100

Cat. No.	Size (in.)	Wt./C lb.
E142-1/4x100EG	1/4x1	1.74
E142-1/4x150EG	1/4x1-1/2	2.43
E142-3/8x100EG	3/8x1	4.17
E142-3/8x150EG	3/8x1-1/2	5.64
E142-1/2x100EG	1/2x1	8.94
E142-1/2x150EG	1/2x1-1/2	10.00
E142-1/2x200EG	1/2x2	11.19
E142-1/2x225EG	1/2x2-1/4	11.90
E142-1/2x250EG	1/2x2-1/2	12.52
E142-1/2x275EG	1/2x2-3/4	13.22

Available in Stainless Steel.

E150S Lag Bolt



STD. PACK 50

Cat. No.	Drill Size (in.)	Size (in.)	Wt./C lb.
E150S-3/8x1-1/2EG	1/4	3/8x1-1/2	5
E150S-3/8x2EG	1/4	3/8x2	7
E150S-3/8x2-1/2EG	1/4	3/8x2-1/2	8
E150S-3/8x3EG	1/4	3/8x3	9
E150S-1/2x1-1/2EG	11/32	1/2x1-1/2	12
E150S-1/2x2EG	11/32	1/2x2	13
E150S-1/2x2-1/2EG	11/32	1/2x2-1/2	15
E150S-1/2x3EG	11/32	1/2x3	18

Available in Stainless Steel.

E151 Coach Screw Rod



Cat. No.	Rod Size (in.)	Std Rod Lengths (in.)	Wt./C lb.
E151-3/8x4EG	3/8	4	9
E151-3/8x6EG	3/8	6	14
E151-3/8x8EG	3/8	8	22
E151-3/8x10EG	3/8	10	29
E151-3/8x12EG	3/8	12	35
E151-1/2x4EG	1/2	4	17
E151-1/2x6EG	1/2	6	22
E151-1/2x8EG	1/2	8	40
E151-1/2x10EG	1/2	10	51

Machine threaded opposite end, carbon steel.

H104 Hanger Rod Continuous Threaded

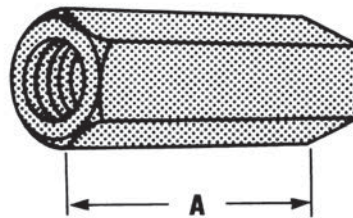


STD. PACK 3

Cat. No.	Thread Size (in.)	Wt./lb. 100 ft.	Design Load lb.
H104-1/4x10EGC	1/4	12.5	150
H104-3/8x10EGC	3/8	29	610
H104-1/2x10EGC	1/2	53.5	1130
H104-5/8x10EGC	5/8	85	1810
H104-3/4x10EGC	3/4	123	2710
H104-7/8x10EG	7/8	130	3770
H104-1x10EG	1	214	4960

- Black available upon request
- Sold per foot; standard length, 10 ft.
- Also available in stainless steel (316) standard length 6 ft. (suffix SS6)
- National coarse thread

H119 Rod Couplings



Rod Size	A (in.)	Wt./C lb.
1/4	7/8	1.90
5/16	7/8	3.75
3/8	1-1/8	3.50
1/2	1-1/4	5.50
5/8	2-1/8	18.00
3/4	2-1/4	28.00
7/8	2-1/2	55.00
1	2-1/4	56.00

Standard Rod Coupling
Example: H119-1/2EG

Order by product number, rod size, and finish.
Available in Stainless Steel.

Rod Size	A (in.)	Wt./C lb.
1/4 to 3/8	1-1/2	3.50
3/8 to 1/2	1-1/4	6.70
1/2 to 5/8	1-1/4	14.00
5/8 to 3/4	1-1/2	21.00
3/4 to 7/8	1-3/4	40.00

Rod Reducer Coupling
Example: H119-1/4x3/8EG

Threaded Products and Hardware

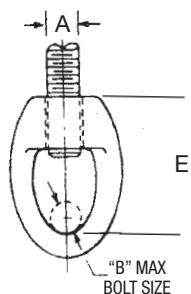
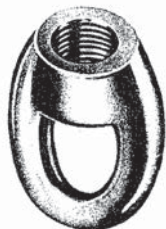
H122 Trapnut™ Strut Fastener

Cat. No.	Size (in.)	Design Load (lb.)	Std. Ctn.
H 122 1/4	1/4	150	50
H 122 3/8	3/8	590	
H 122 1/2	1/2	1080	
H 122 1/4 EG	1/4	150	
H 122 3/8 EG	3/8	590	
H 122 1/2 EG	1/2	1080	
H 122 3/8 SS6	3/8	590	
H 122 1/2 SS6	1/2	1080	

Finishes: Electrogalvanized (EG), GoldGalv®, Stainless Steel Type 316 (SS6)



M117 Eye Socket

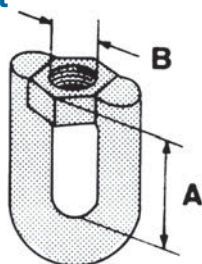


Rod Size A (in.)	Pipe Size (in.)	B (in.)	E (in.)	Wt./C lb.	Design Load, lb.
1/4	3/8	1/4	1-11/32	5	230
3/8	1/2 - 2	1/4	1-11/32	7	610
1/2	2-1/2 - 3-1/2	1/4	1-17/32	13	1130
5/8	4 - 5	3/8	1-13/16	19	1810
3/4	6	1/2	2-5/32	31	2400
7/8	8	1/2	2-11/32	44	2800

Standard Finishes - Bare (B), Electrogalvanized (EG)

Malleable iron. For attaching hanger rod to various types of hangers and beam clamps. Order by product number, rod size, and finish. Example: M117-1/4B
Complies with Specification MSS SP69, Type 16.

E120 Swivel Joint



Cat. No.	Size (in.)	A (in.)	B (in.)	Wt./C lb.	Design Load, lb.
E120-3/8	3/8	1-3/8	3/8	15	1000
E120-1/2	1/2	1-1/2	1/2	25	1800

E120A Weldless Eye Nut

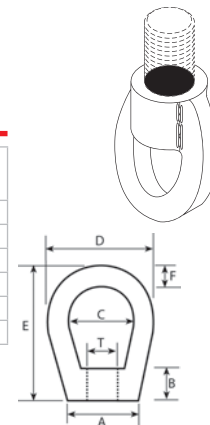
Rod Size T	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)	Wt./C lb.	Design Load, lb.
3/8	7/8	5/8	1-1/4	2	2-1/2	3/8	20	2700
1/2	7/8	5/8	1-1/4	2	2-1/2	3/8	22	2700
5/8	1-3/8	3/4	1-1/2	2-1/2	3	1/2	60	5000
3/4	1-3/8	3/4	1-1/2	2-1/2	3	1/2	56	5000
7/8	1-1/2	1-5/8	1-5/16	3-5/8	4-1/2	3/4	174	10000
1	1-1/2	1-5/8	1-5/16	3-5/8	4-1/2	3/4	168	10000

Standard Finish - Bare (B)

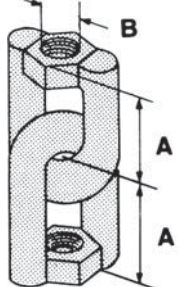
Drop Forged Steel. For use on high temperature piping installations.

Order by product number and rod size.

Example: E120A-3/8B

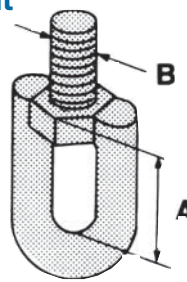


E122 Swivel Joint



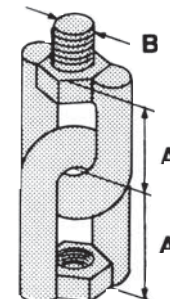
Cat. No.	Size (in.)	A (in.)	B (in.)	Wt./C lb.	Design Load, lb.
E122-3/8	3/8	1-3/8	3/8	28	1000
E122-1/2	1/2	1-1/2	1/2	48	1800

E130 Swivel Joint



Cat. No.	Size (in.)	A (in.)	B (in.)	Wt./C lb.	Design Load, lb.
E130-3/8	3/8	1-3/8	3/8	23	1000
E130-1/2	1/2	1-1/2	1/2	48	1800

E131 Swivel Joint



Cat. No.	Size (in.)	A (in.)	B (in.)	Wt./C lb.	Design Load, lb.
E131-3/8	3/8	1-3/8	3/8	25	1000
E131-1/2	1/2	1-1/2	1/2	52	1800

Threaded Products and Hardware

C781 Square Washer

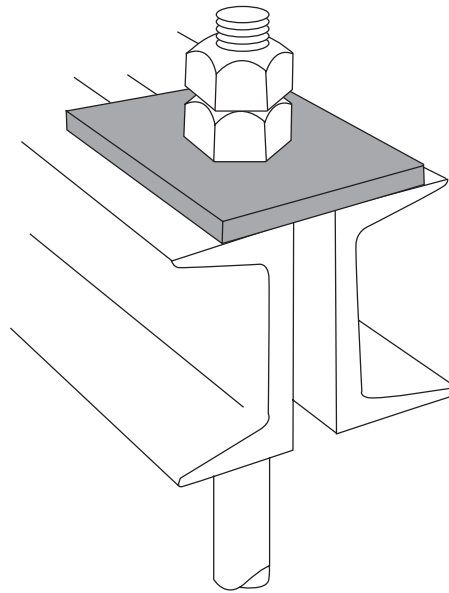
STD
PACK
50

Cat. No.	Rod Size (in.)	Hole Size (in.)	Overall Dimensions (in.)	Wt./ C lb.
C781-3/8*	3/8	7/16	3 x 3 x 3/16	27
C781-1/2*	1/2	9/16	3 x 3 x 3/16	27
C781-5/8*	5/8	11/16	3 x 3 x 1/4	47
C781-3/4*	3/4	13/16	3 x 3 x 1/4	42
C781-7/8*	7/8	15/16	4 x 4 x 3/8	85
C781-1*	1	1-1/8	4 x 4 x 3/8	160

Used for beam applications. For channel applications use AB241.

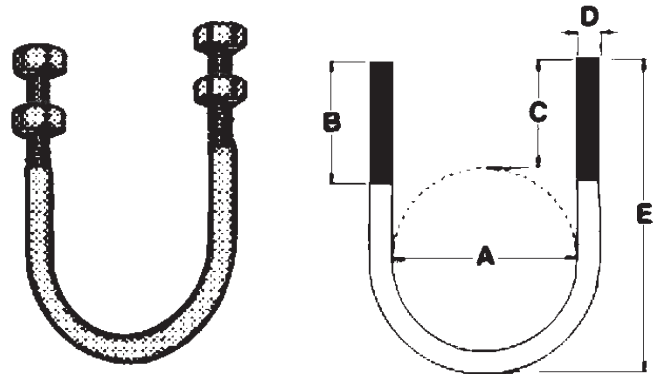
***Finishes**

- B
- HDG
- EG
- SS6



H115 Standard U-Bolt

Pipe Size (in.)	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	Wt./ C lb.	Design Load, lb.
1/2	15/16	1-3/4	1-1/2	1/4	2-3/4	13	1500
3/4	1-1/8	1-3/4	1-5/8	1/4	3-1/16	15	2000
1	1-3/8	1-7/8	1-5/8	1/4	3-5/16	16	2500
1-1/4	1-23/32	1-3/4	1-15/32	3/8	3-1/2	17	2500
1-1/2	2	1-3/4	1-7/16	3/8	3-3/4	18	2500
2	2-7/16	2-1/16	1-7/8	3/8	4-11/16	32	3300
2-1/2	2-15/16	2-1/16	1-13/16	1/2	5-1/8	34	4000
3	3-9/16	2	1-3/4	1/2	5-11/16	38	4000
3-1/2	4-3/32	2	1-23/32	1/2	6-3/16	40	4000
4	4-19/32	2-1/4	1-31/32	1/2	6-15/16	46	4000
5	5-5/8	3	2-7/32	1/2	8-5/16	101	4000
6	6-3/4	3-3/4	2-13/16	5/8	10-1/8	197	4000
8	8-3/4	3-3/4	2-13/16	5/8	12-1/8	233	4000
10	10-7/8	4	3	3/4	14-9/16	491	5400
12	12-7/8	4-1/4	3-1/4	7/8	16-15/16	773	7500

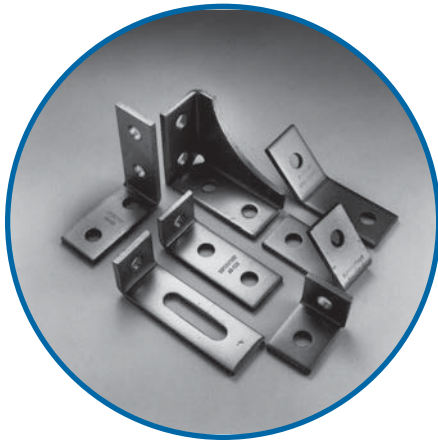


Standard Finishes - ElectroGalvanized (EG), GoldGalv®, Stainless Steel or Bare (B)

Example: H115-1/2EG

Sizes through 4 in. furnished with one hex nut per leg.
 Sizes 5 in. and above furnished with two hex nuts per leg.
 Order by Cat. No., pipe size, finish.
 Complies with Specification MSS SP69, Type 24.

Fittings and Brackets



Material

Superstrut® fittings and brackets are manufactured from hot rolled carbon steel.

Dimensions

The following standard dimensions apply to all fittings except as indicated on the individual drawings.

Hole spacing 13/16 in. from end of fittings

Hole spacing 1-7/8 in. centers

Hole size 9/16 in. diameter

Material 1-5/8 in. wide

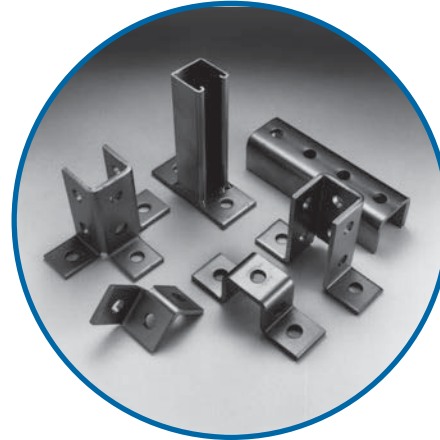
Material 1/4 in. thick

Application Instructions

Parts drawings illustrate a typical use for the fitting, and in many cases other uses for the part are appropriate.

Design Data

Load ratings vary depending fittings and brackets are used with 12, *14 or 16 gauge channel. Ratings are shown for each channel material. (See page A57 for Engineering Data and Specifications).



Nuts and Bolts Required

Unless otherwise noted, nuts and bolts for use with fittings and brackets should be ordered separately.

The standard bolt for the 9/16 in. hole is a 1/2 in. hex head cap screw 1 in. long. The 1 in. length may be used with all Series channel.

Design Load

For more information on design load, see page A57 Engineering Data and Specifications.

Finishes and Special Materials

Standard finishes are Hot Dipped Galvanized (HDGC) and GoldGalv® (no suffix). Fittings are also available in ElectroGalvanized (EG) and Stainless Steel 316 (SS6C). Contact your Regional Sales Office for availability and minimum quantities.

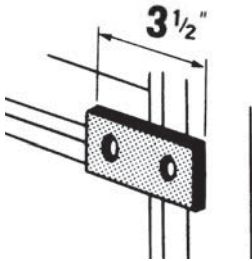
Aluminum channel

For Aluminum channel, we suggest fittings in HDG (C) or SS6 (C).

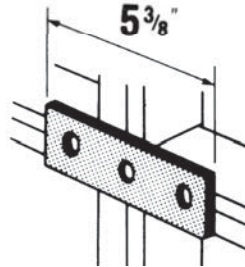
Fittings and Brackets

Flat Fittings

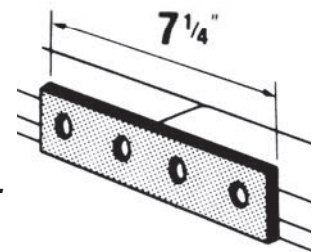
AB206
 AB206HDGC
 AB206EG
 AB206
 AB206SS6C
 Wt./C 35 lb.



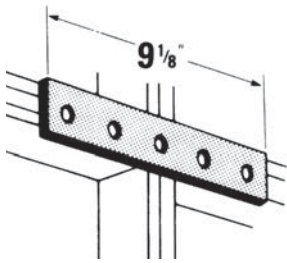
AB207
 AB207HDGC
 AB207EG
 AB207
 AB207SS6C
 Wt./C 52 lb.



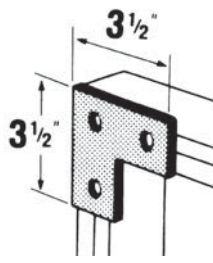
X207
 X207HDG
 X207EG
 X207
 X207SS6
 Wt./C 78 lb.



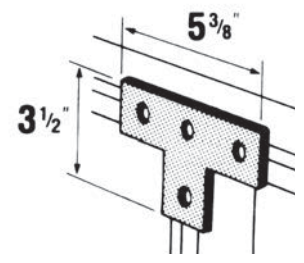
X208
 X208HDG
 X208EG
 X208
 X208SS6C
 Wt./C 88 lb.



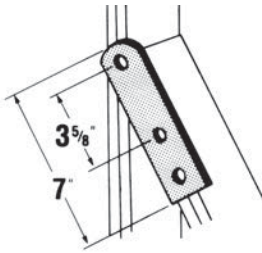
AB219
 AB219HDGC
 AB219EG
 AB219
 AB219SS6C
 Wt./C 53 lb.



AB220
 AB220HDGC
 AB220EG
 AB220
 AB220SS6C
 Wt./C 78 lb.



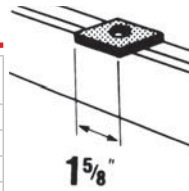
AB240
 AB240HDG
 AB240EG
 AB240
 Wt./C 69 lb.



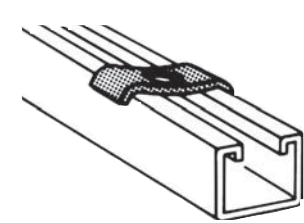
AB241

Cat. No.	Bolt Size (in.)	Wt./C lb.
AB241-1/4*	1/4	18
AB241-5/16*	5/16	18
AB241-3/8*	3/8	18
AB241-1/2*	1/2	17
AB241-5/8*	5/8	15
AB241-3/4*	3/4	14

*Finishes
 • HDGC • GoldGalv®
 • EG • SS6C

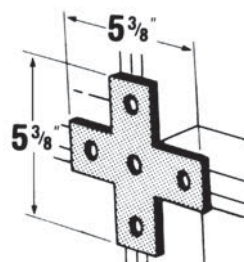


AB242
 AB242HDGC
 AB242EG
 AB242
 Wt./C 9 lb.

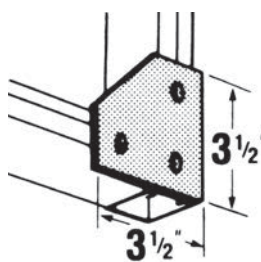


For use with either
 3/8 in. or 1/2 in. hanger rod.

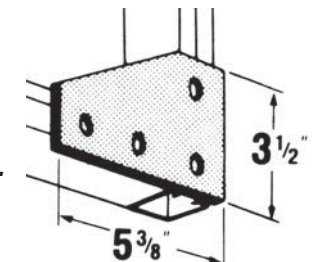
AB253
 AB253HDGC
 AB253EG
 AB253
 AB253SS6C
 Wt./C 97 lb.



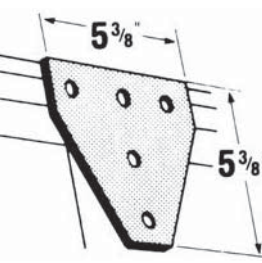
AB255
 AB255HDGC
 AB255EG
 AB255
 Wt./C 70 lb.



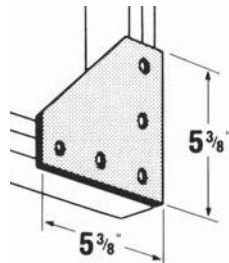
AB257
 AB257HDGC
 AB257EG
 AB257
 Wt./C 105 lb.



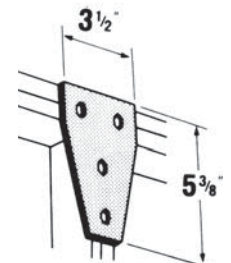
AB261
 AB261HDGC
 AB261EG
 AB261
 Wt./C 148 lb.



AB263
 AB263HDGC
 AB263EG
 AB263
 AB263SS6
 Wt./C 150 lb.



AB265
 AB265HDGC
 AB265EG
 AB265
 Wt./C 105 lb.



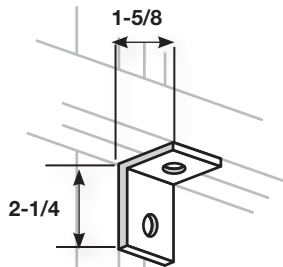
Standard Dimensions	Value
Hole Spacing	→ 13/16 in. From End
Hole Spacing	→ 1-7/8 in. Centers
Hole Size	→ 9/16 in. Diam.
Material	→ 1-5/8 in. Width
Material	→ 1/4 in. Thick

Materials	Value
HDG(C)	→ Hot-Dipped Galvanized
EG(C)	→ ElectroGalvanized
(No suffix)	→ GoldGalv®
SS6(C)	→ Stainless Steel 316

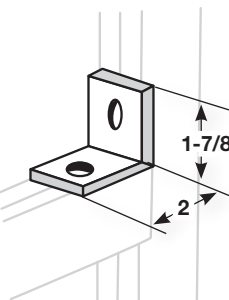
Fittings and Brackets

90° Fittings

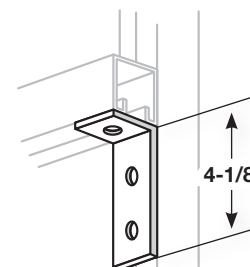
AB201
 AB201HDGC
 AB201EG
 AB201
 AB201SS6C
 Wt./C 35 lb.



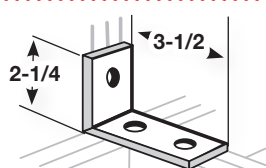
AB202
 AB202HDGC
 AB202EG
 AB202
 AB202SS6C
 Wt./C 35 lb.



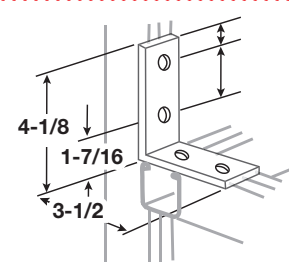
AB203
 AB203HDGC
 AB203EG
 AB203
 AB203SS6C
 Wt./C 58 lb.



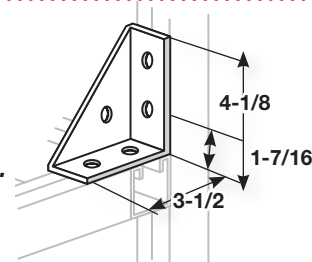
AB204
 AB204HDGC
 AB204EG
 AB204
 AB204SS6C
 Wt./C 58 lb.



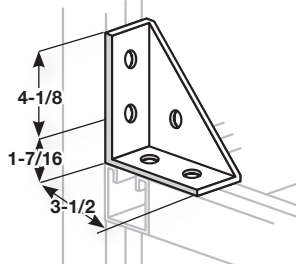
AB205
 AB205HDGC
 AB205EG
 AB205
 AB205SS6C
 Wt./C 78 lb.



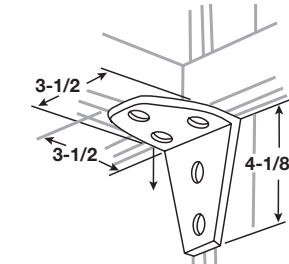
AB213
 AB213HDGC
 AB213EG
 AB213
 Wt./C 125 lb.



AB214
 AB214HDGC
 AB214EG
 AB214
 AB214SS6C
 Wt./C 125 lb.



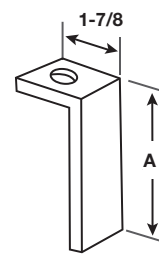
AB216
 AB216HDGC
 AB216EG
 AB216SS6C
 Wt./C 135 lb.



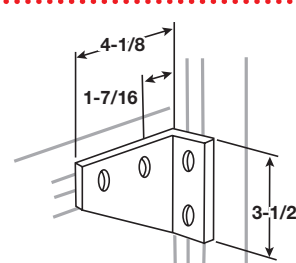
AB252

Cat. No.	A (in.)	Wt./C lb.
AB252-1*	3-7/8	61
AB252-2*	5-7/8	84
AB252-3*	7-7/8	107
AB252-4*	9-7/8	130

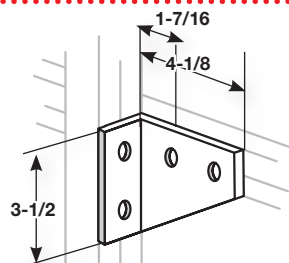
*Finishes
 • HDGC • EG • GoldGalv®



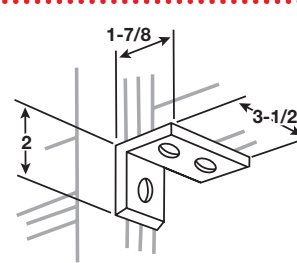
AB254R
 AB254RHDGC
 AB254REG
 AB254R
 Wt./C 105 lb.



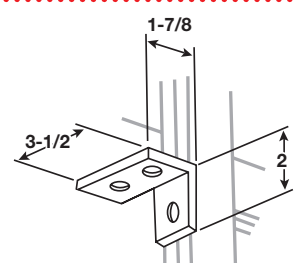
AB254L
 AB254LHDGC
 AB254LEG
 AB254L
 Wt./C 105 lb.



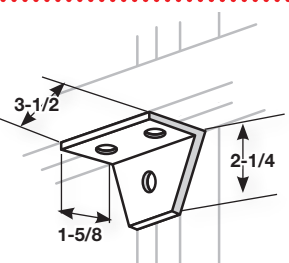
AB260R
 AB260RHDGC
 AB260REG
 AB260R
 Wt./C 58 lb.



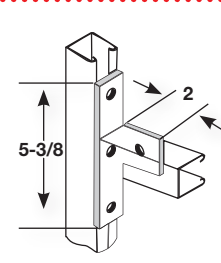
AB260L
 AB260LHDGC
 AB260LEG
 AB260L
 Wt./C 58 lb.



AB274
 AB274HDG
 AB274EG
 AB274
 Wt./C 70 lb.



AB275
 AB275HDGC
 AB275EG
 AB275SS6C
 Wt./C 77 lb.



Standard Dimensions	Value
Hole Spacing	→ 13/16 in. From End
Hole Spacing	→ 1-7/8 in. Centers
Hole Size	→ 9/16 in. Diam.
Material	→ 1-5/8 in. Width
Material	→ 1/4 in. Thick

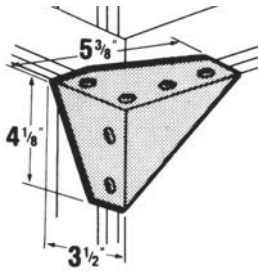
Materials	Value
HDG(C)	→ Hot-Dipped Galvanized
EG(C)	→ ElectroGalvanized
(No suffix)	→ GoldGalv®
SS6(C)	→ Stainless Steel 316

Fittings and Brackets

90° Fittings

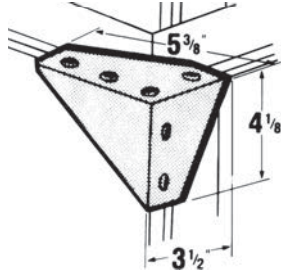
AB284R
AB284RHDG
AB284REG
AB284L

Wt./C 230 lb.



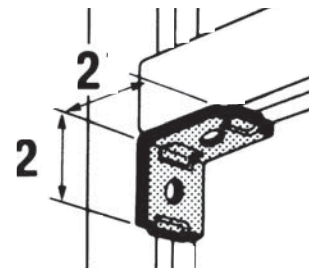
AB284L
AB284LHDG
AB284LEG
AB284L

Wt./C 230 lb.



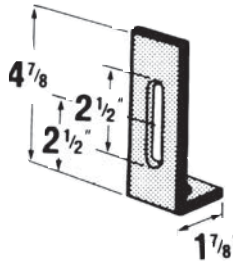
AB299
AB299HDG
AB299EG
AB299

Wt./C 40 lb.



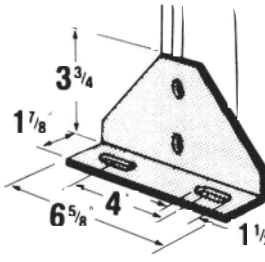
X201
X201HDG
X201EG
X201

Wt./C 65 lb.



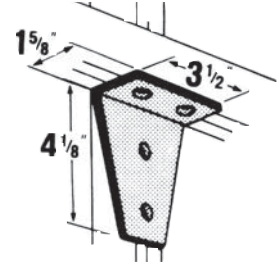
X204
X204HDG
X204EG
X204

Wt./C 1-90 lb.



X289
X289HDG
X289EG
X289

Wt./C 105 lb.



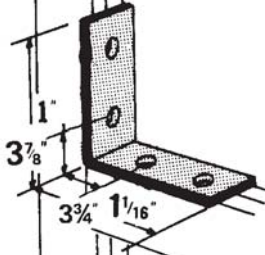
X299
X299HDG
X299EG
X299

Wt./C 38 lb.



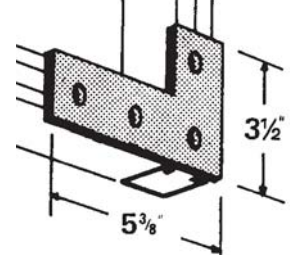
N205
N205HDG
N205EG
N205
N205SS6C

Wt./C 74 lb.



N219
N219HDG
N219EG
N219
N219SS6

Wt./C 71 lb.



Standard Dimensions	Hole Spacing → 13/16 in. From End
	Hole Spacing → 1-7/8 in. Centers
	Hole Size → 9/16 in. Diam.
	Material → 1-5/8 in. Width
	Material → 1/4 in. Thick

Materials	HDG(C) → Hot-Dipped Galvanized
	EG(C) → Electrogalvanized
	(No suffix) → GoldGalv®
	SS6(C) → Stainless Steel 316

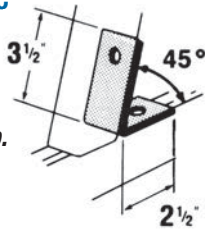
Fittings and Brackets

Angular Fittings

AB225

AB225HDGC
AB225EG
AB225
AB225SS6

Wt./C 58 lb.

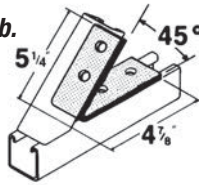


Other angles available.
Contact your Regional Sales Office.

AB226

AB226HDGC
AB226SS6

Wt./C 119 lb.

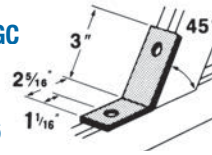


Other angles available.
Contact your Regional Sales Office.

AB227

AB227HDGC
AB227EG
AB227
AB227SS6

Wt./C 58 lb.

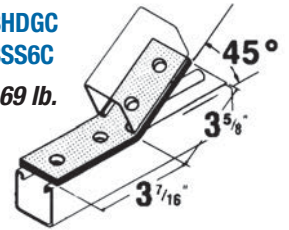


Other angles available.
Contact your Regional Sales Office.

AB228

AB228HDGC
AB228SS6C

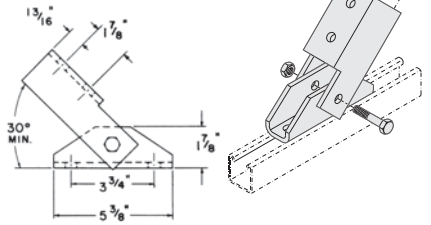
Wt./C 69 lb.



Other angles available.
Contact your Regional Sales Office.

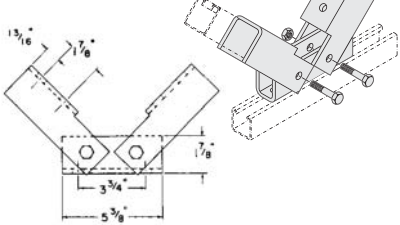
AB231

AB231EG



AB232

AB232EG

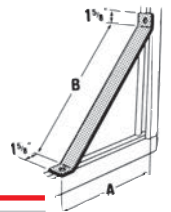


AB239

*Finishes

• HDGC • EG • GoldGalv®

Cat. No.	A (in.)	B (in.)	Wt./C lb.
AB239-1*	7-13/16	8-1/2	148
AB239-2*	13-3/4	17	255
AB239-3*	19-3/4	25-1/2	363

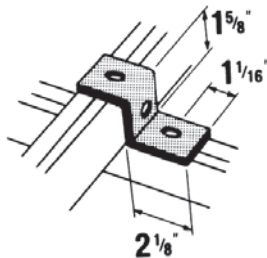


"Z" Shape Fittings

A209

A209HDGC
A209EG
A209
A209SS6

Wt./C 55 lb.

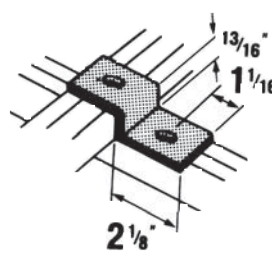


For attaching A and AR Series channel.

B209

B209HDGC
B209EG
B209

Wt./C 43 lb.

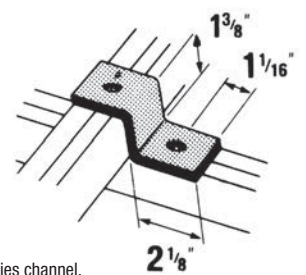


For attaching B and BR Series channel.

C209

C209

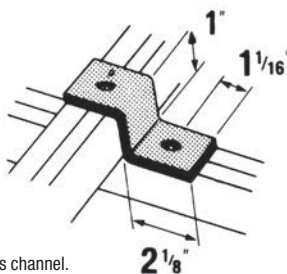
Wt./C 49 lb.



For attaching C Series channel.

D209

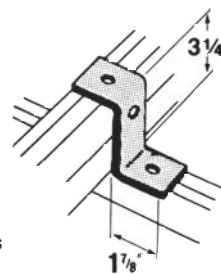
Wt./C 45 lb.



For attaching D Series channel.

CZ209

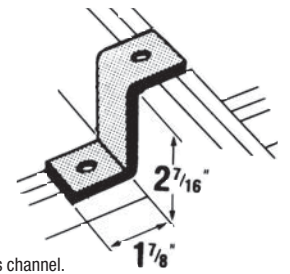
For attaching H Series
and A back to back.



EZ209

EZ209HDGC
EZ209EG
EZ209
EZ209SS6

For attaching E Series channel.



Standard Dimensions	Value
Hole Spacing	→ 13/16 in. From End
Hole Spacing	→ 1-7/8 in. Centers
Hole Size	→ 9/16 in. Diam.
Material	→ 1-5/8 in. Width
Material	→ 1/4 in. Thick

Materials	Value
HDG(C)	→ Hot-Dipped Galvanized
EG(C)	→ ElectroGalvanized
(No suffix)	→ GoldGalv®
SS6(C)	→ Stainless Steel 316

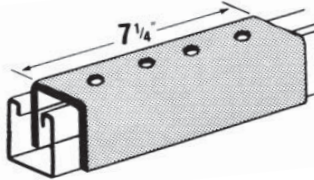
Fittings and Brackets

"U" Shape Fittings

A208

A208HDGC
A208EG
A208
A208SS6C

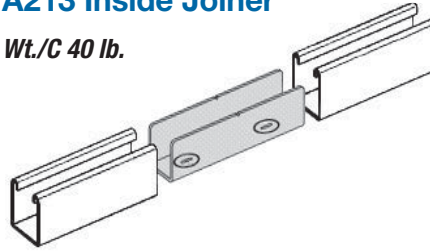
Wt./C 275 lb.



Does not include stud nut or bolts.
For A and AR Series channel.

A213 Inside Joiner

Wt./C 40 lb.

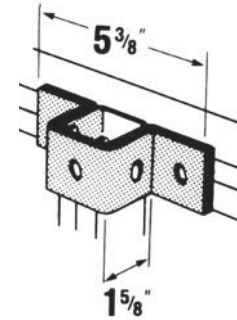


For A1200 Series.
Available only in GoldGalv® finish.

A210

A210HDGC
A210EG
A210
A210SS6C

Wt./C 88 lb.

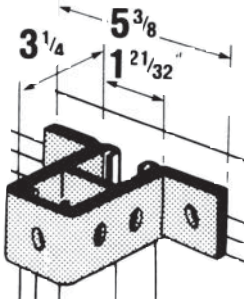


For attaching A and AR Series channel.

A211

A211HDGC
A211EG
A211

Wt./C 128 lb.

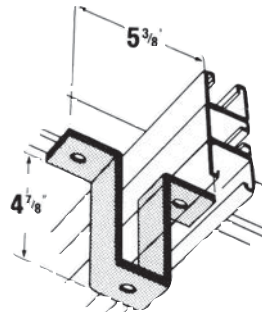


For attaching A and AR Series double channel, and H Series.

AN211

AN211HDGC
AN211EG
AN211

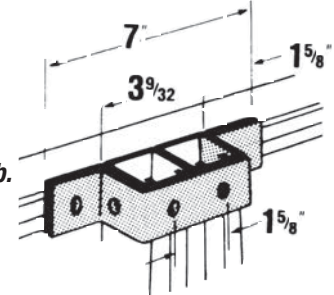
Wt./C 181 lb.



A212

A212HDGC
A212EG
A212
A212SS6

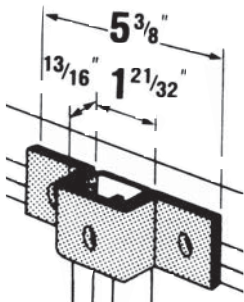
Wt./C 113 lb.



B210

B210HDGC
B210EG
B210
B210SS6

Wt./C 65 lb.

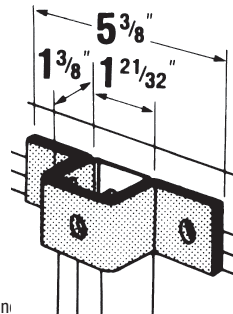


For attaching B and BR Series.

C210

C210HDGC
C210EG
C210

Wt./C 77 lb.

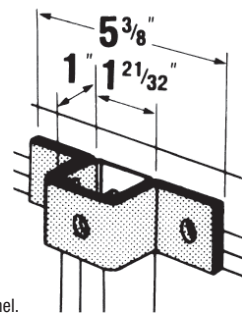


For attaching C Series channel.

D210

D210HDGC
D210EG
D210
D210SS6

Wt./C 71 lb.

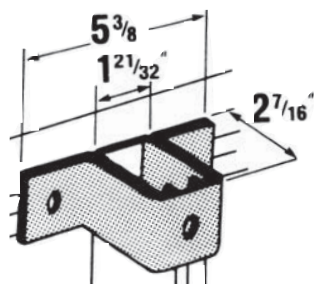


For attaching D Series channel.

E210

E210HDGC
E210EG
E210

Wt./C 112 lb.

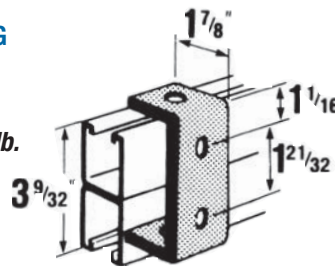


For attaching E Series channel.

AB245

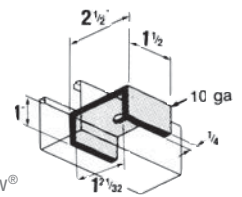
AB245HDGC
AB245EG
AB245

Wt./C 70 lb.



For attaching A and AR Series double channel.

AB288



*Finishes
• HDGC • EG • GoldGalv®

Cat. No.	Bolt Size (in.)	Wt./C lb.
AB288-3/8*	3/8	37
AB288-1/2*	1/2	
AB288-5/8*	5/8	

Standard Dimensions	Value
Hole Spacing	→ 13/16 in. From End
Hole Spacing	→ 1-7/8 in. Centers
Hole Size	→ 9/16 in. Diam.
Material	→ 1-5/8 in. Width
Material	→ 1/4 in. Thick

Materials	Value
HDG(C)	→ Hot-Dipped Galvanized
EG(C)	→ Electrogalvanized
(No suffix)	→ GoldGalv®
SS6(C)	→ Stainless Steel 316

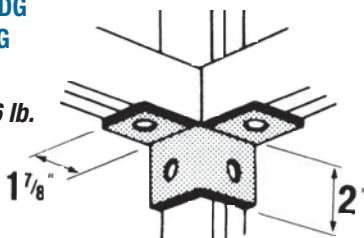
Fittings and Brackets

Wing Fittings

AW204

AW204HDG
AW204EG
AW204

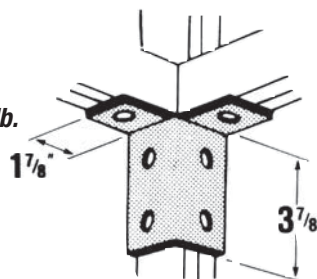
Wt./C 76 lb.



AW214

AW214HDG
AW214EG
AW214

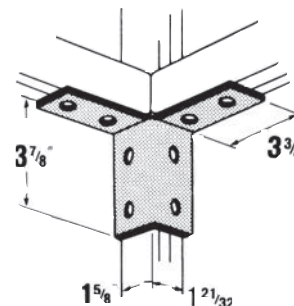
Wt./C 115 lb.



A217

AW217HDG
A217EG
A217

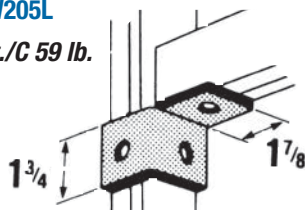
Wt./C 155 lb.



AW205L

AW205LHDG
AW205LEG
AW205L

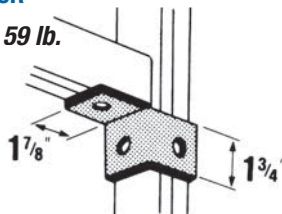
Wt./C 59 lb.



AW205R

AW205REG
AW205R

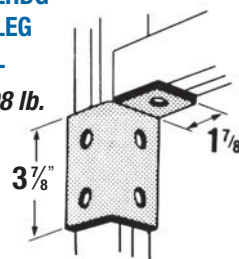
Wt./C 59 lb.



AW215L

AW215LHDG
AW215LEG
AW215L

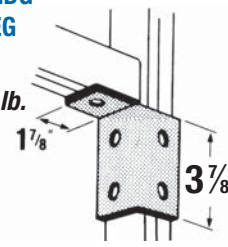
Wt./C 98 lb.



AW215R

AW215RHDG
AW215REG
AW215R

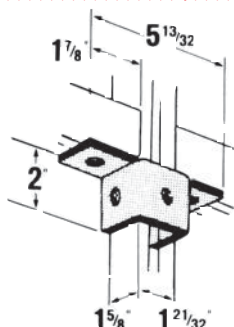
Wt./C 98 lb.



AW220

AW220HDGC
AW220EG
AW220

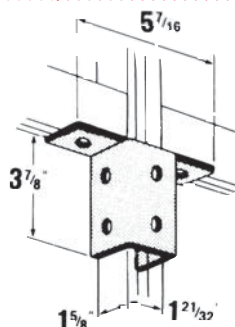
Wt./C 90 lb.



AW224

AW224HDGC
AW224EG
AW224

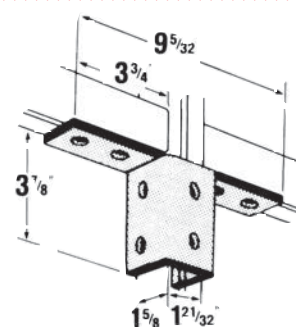
Wt./C 147 lb.



AW219

AW219HDGC
AW219EG
AW219

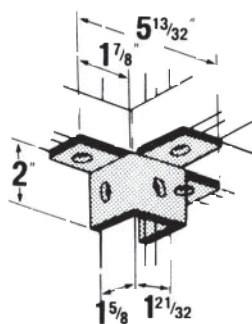
Wt./C 187 lb.



AW226

AW226HDG
AW226

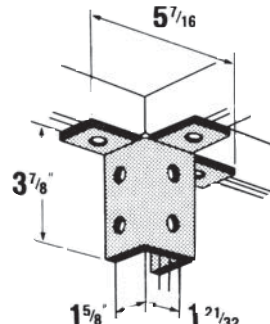
Wt./C 113 lb.



A218

A218HDG
A218EG
A218

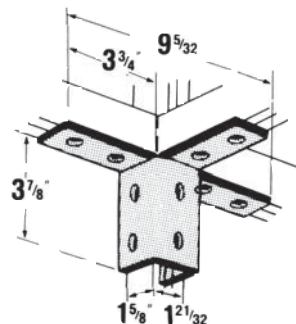
Wt./C 177 lb.



AW228

AW228HDG
AW228EG
AW228

Wt./C 230 lb.



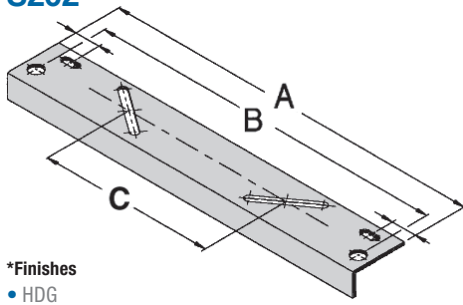
Standard Dimensions	Hole Spacing	→ 13/16 in. From End
	Hole Spacing	→ 1-7/8 in. Centers
	Hole Size	→ 9/16 in. Diam.
	Material	→ 1-5/8 in. Width
	Material	→ 1/4 in. Thick

Materials	HDG(C)	→ Hot-Dipped Galvanized
	EG(C)	→ Electrogalvanized
	(No suffix)	→ GoldGal®
	SS6(C)	→ Stainless Steel 316

Fittings and Brackets

Brackets

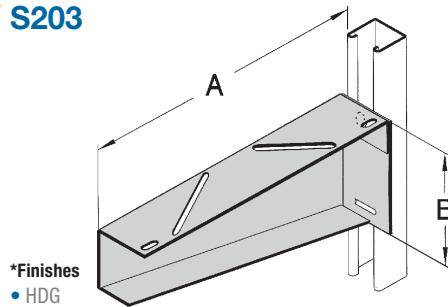
S202



*Finishes
• HDG

Cat. No.	A (in.)	B (in.)	C (in.)	Wt./C lb.
S202-6*	6	5	—	75
S202-9*	9	8	2	100
S202-15*	15	14	18	175
S202-21*	21	20	14	250
S202-27*	27	26	20	325
S202-33*	33	32	26	400

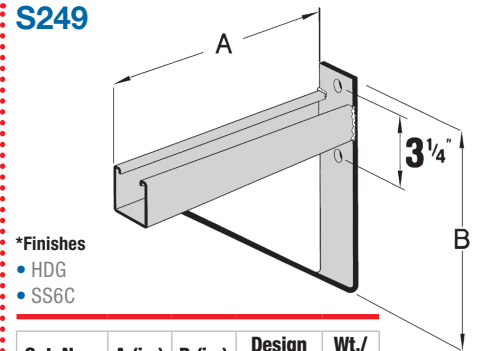
S203



*Finishes
• HDG

Cat. No.	A (in.)	B (in.)	Design Load/lb.	Wt./C lb.
S203-8*	8-1/2	4-1/16	1200	180
S203-14*	14-1/2	5-3/8		325
S203-20*	20-1/2	6-11/16		525
S203-26*	26-1/2	8		675
S203-32*	32-1/2	8		840
S203-38*	38-1/2	8		1050

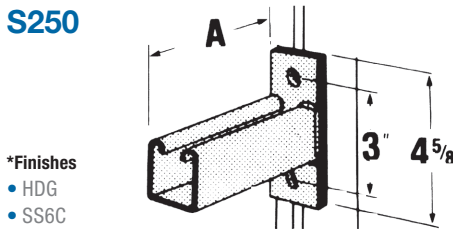
S249



*Finishes
• HDG
• SS6C

Cat. No.	A (in.)	B (in.)	Design Load/lb.	Wt./C lb.
S249-8*	8-1/2	8	1500	320
S249-14*	14-1/2	9		520
S249-20*	20-1/2	9		660
S249-26*	26-1/2	11-1/2		870
S249-32*	32-1/2	11-1/2		1030
S249-38*	38-1/2	11-1/2		1230

S250

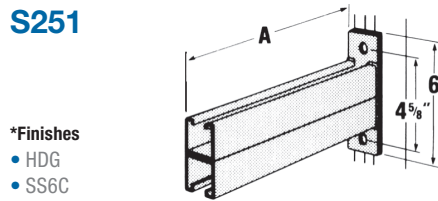


*Finishes
• HDG
• SS6C

Cat. No.	A (in.)	Design Load/lb.	Wt./C lb.
S250-6*	6	1500	150
S250-8*	8-1/2	1500	150
S250-12*	12	800	250
S250-14*	14-1/2	800	250
S250-18*	18	550	350
S250-20*	20-1/2	550	350
S250-24*	24	400	450
S250-26*	26-1/2	400	450

May be installed inverted with no change in load ratings.

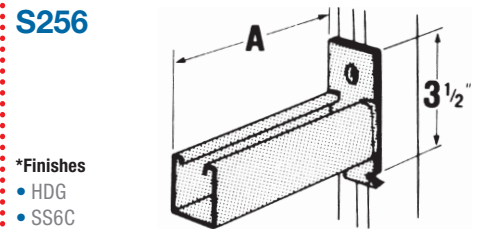
S251



*Finishes
• HDG
• SS6C

Cat. No.	A (in.)	Design Load/lb.	Wt./C lb.
S251-12*	12	1650	514
S251-14*	14-1/2	1650	514
S251-18*	18	1050	714
S251-20*	20-1/2	1050	714
S251-24*	24	800	914
S251-26*	26-1/2	800	914
S251-30*	30	650	1114
S251-32*	32-1/2	650	1114
S251-36*	36	500	1314
S251-38*	38-1/2	500	1314

S256



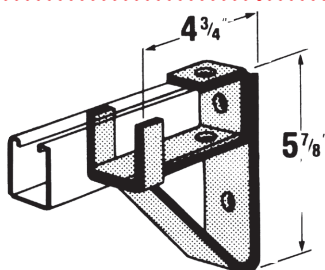
*Finishes
• HDG
• SS6C

Cat. No.	A (in.)	Design Load/lb.	Wt./C lb.
S256-6*	6	1000	151
S256-8*	8-1/2	1000	151
S256-12*	12	500	251
S256-14*	14-1/2	500	251
S256-18*	18	300	351
S256-20*	20-1/2	300	351
S256-24*	24	250	451
S256-26*	26-1/2	250	451

When installed in inverted position reduce load rating 40%.

S247

S247HDG
S247
S247SS6



Design Moment
(channel upright as shown)
When Supported By

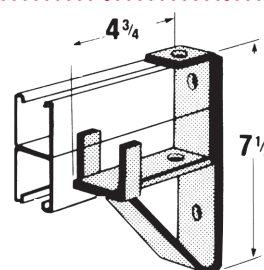
A-1200 5250 inch lb.

A-1400 3650 inch lb.

Applies to fitting only, not to the arm.

S248

S248HDGC
S248



Design Moment
(channel upright as shown)
When Supported By

A-1202 10 800 inch lb.

A-1402 7 550 inch lb.

Applies to fitting only, not to the arm.

Standard Dimensions	Value
Hole Spacing	→ 13/16 in. From End
Hole Spacing	→ 1-7/8 in. Centers
Hole Size	→ 9/16 in. Diam.
Material	→ 1-5/8 in. Width
Material	→ 1/4 in. Thick

Materials	Value
HDG(C)	→ Hot-Dipped Galvanized
EG(C)	→ ElectroGalvanized
(No suffix)	→ GoldGalv®
SS6(C)	→ Stainless Steel 316

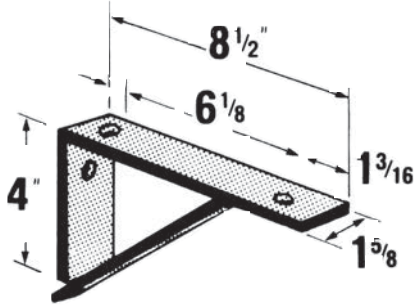
Fittings and Brackets

Brackets

S204
S204HDGC
S204

Wt./C 174 lb.

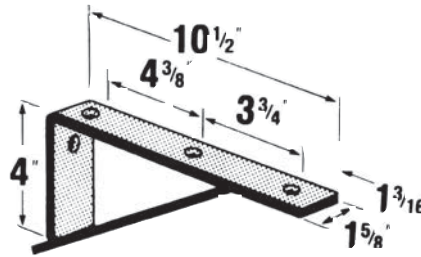
Design Uniform Load/lb.	
A-1200	750
A-1400	500



S205
S205HDGC
S205

Wt./C 264 lb.

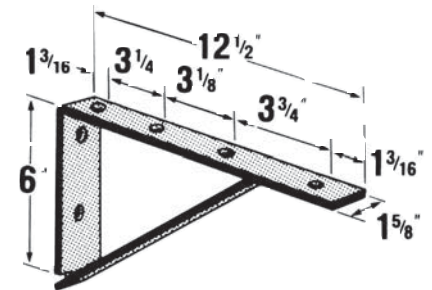
Design Uniform Load/lb.	
A-1200	750
A-1400	500



S217
S217HDG
S217
S217SS6

Wt./C 264 lb.

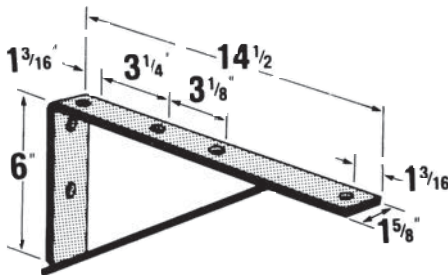
Design Uniform Load/lb.	
A-1200	750
A-1400	650



S218
S218HDG
S218

Wt./C 295 lb.

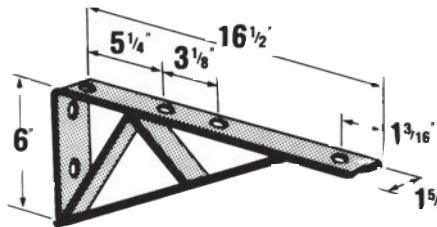
Design Uniform Load/lb.	
A-1200	750
A-1400	650



S222
S222HDG
S222

Wt./C 385 lb.

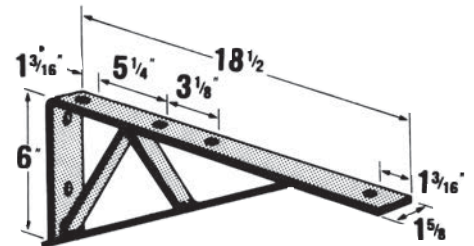
Design Uniform Load/lb.	
A-1200	1000
A-1400	750



S226
S226HDG
S226

Wt./C 421 lb.

Design Uniform Load/lb.	
A-1200	1000
A-1400	750



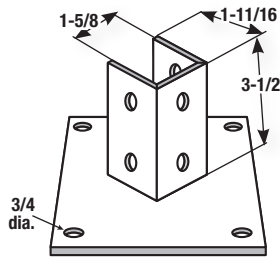
Fittings and Brackets

Post Bases

AP232

AP232HDGC
AP232EG
AP232

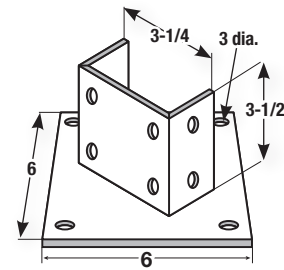
Wt./C 384 lb.



AP235

AP235HDGC
AP235EG
AP235

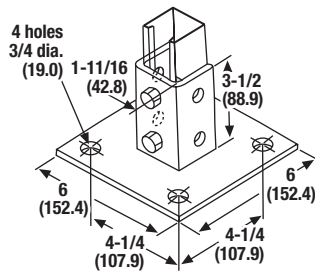
Wt./C 400 lb.



AP232SQ

AP232SQHDGC
AP232SQEG
AP232SQSS6

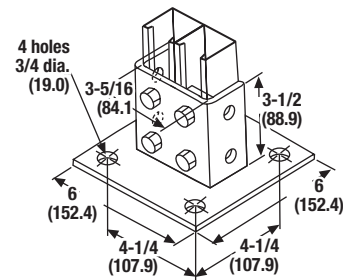
Wt./C 384 lb.



AP235SQ

AP235SQHDGC
AP235SQEG
AP235SQ
AP235SQSS6

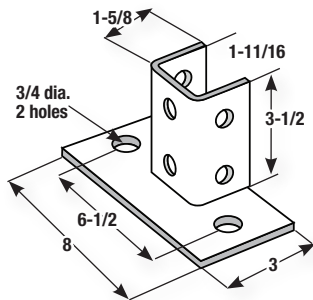
Wt./C 400 lb.



AP232FL

AP232FLHDG
AP232FLEG
AP232FL

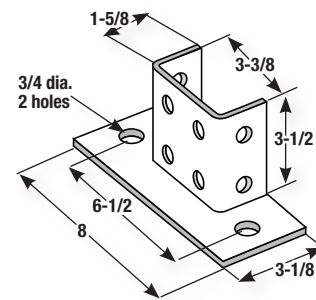
Wt./C 272 lb.



AP235FL

AP235FLHDGC
AP235FLEG
AP235FL

Wt./C 360 lb.

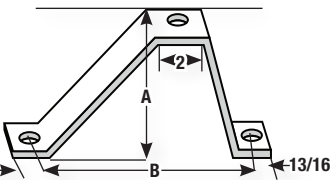


AN270

*Finishes

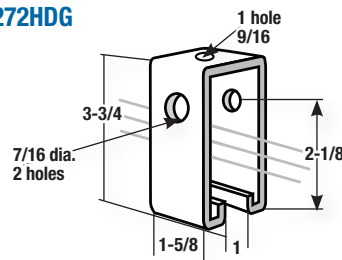
- HDG
- EG

Cat. No.	A	B	Wt./C lb.
AN270-1*	2-3/8	6	113
AN270-2*	4-3/8	8	151
AN270-3*	6-3/8	10	199
AN270-4*	8-3/8	12	246
AN270-5*	10-3/8	14	293



TS272 Track Support

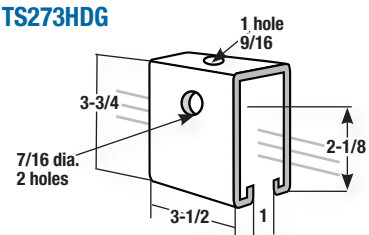
TS272HDG



Requires 3/8 in. x 2-1/2 in. bolt and nut (not included)
Design load: 1000 lb.
Wt./C 104 lb.

TS273 Track Support

TS273HDG

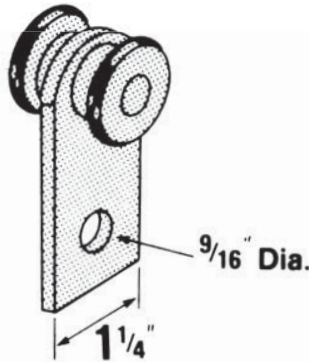


For use over channel splice
Requires 3/8 in. x 2-1/2 in. bolt and nut (not included)
Design load: 2000 lb.
Wt./C 228 lb.

Fittings and Brackets

Special Application Fittings and Brackets

TR292



Can be used for Series A, E and H channels only.

Standard finish is Electrogalvanized.

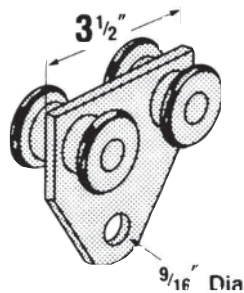
Frictionless needle bearings.

Design load: 500 lb.

Safety factor of 5.

Wt./C 59 lb.

TR294



Can be used for Series A, E and H channels only.

Standard finish is Electrogalvanized.

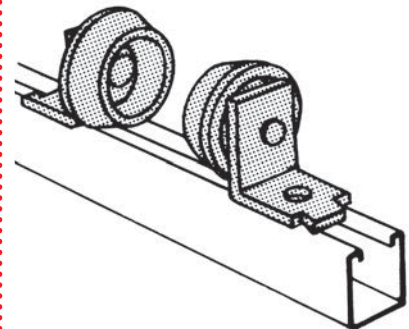
Frictionless needle bearings.

Design load: 1000 lb.

Safety factor of 5.

Wt./C 106 lb.

C728 Pipe Roller (Pair)



Cast aluminum rollers, steel brackets. Designed for standard saddles. Order separately for each pair of rollers: two 1/2 in. x 5/16 in. hex head cap screws and two 1/2 in. channel nuts. Space to suit O.D. of pipe and wrapping.

Design Load: 2350 lb.

Wt./C : 300 lb.

Adjustable Universal Support

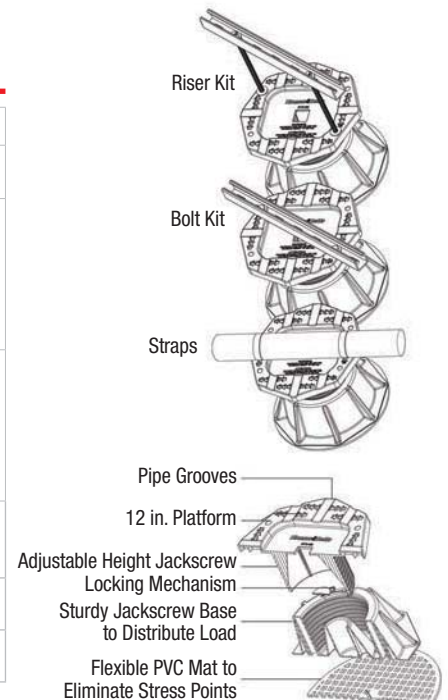
Support building services and access equipment on flat roofs and flat surfaces



The T&B Adjustable Universal Support (AUS) provides an easy method for supporting pipes, conduit and equipment on flat roofs, below raised floors and even on level ground applications. The AUS reduces installation time compared to other support solutions such as wooden blocks, cement blocks, straps and clips. These labor intensive solutions also increase the danger of roof membrane penetration.

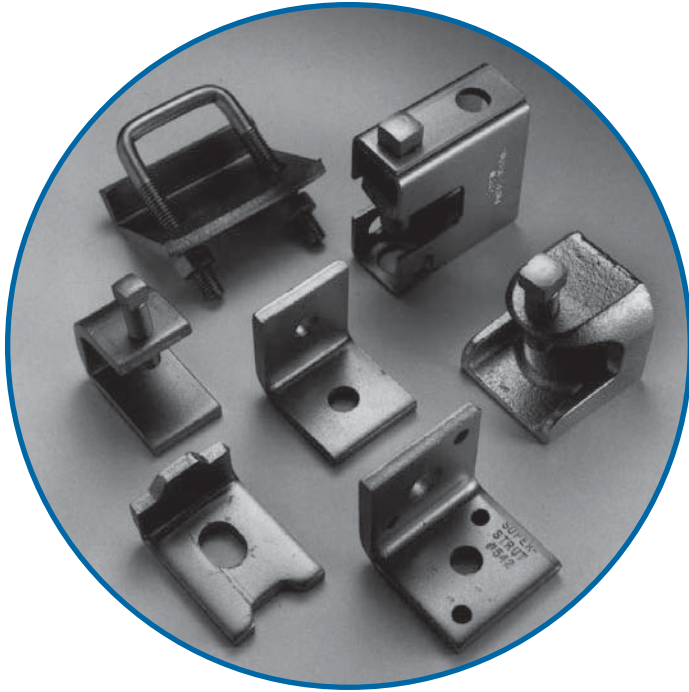
The AUS system also allows for tool free adjustment of the pedestal height from 6 to 9 inches with a twist of the wrist. This ensures that the supported objects or pipes are uniformly supported and no high stress supports are carrying a disproportionate load in a single location.

Cat. No.	Description	Qty.
AUS14-96	Ajustable Universal Support (Base only)	1
AUS-RISER-KIT	Riser Kit	
A1200HS100PG	14 in. strut	1
H104-1/2X10EGC	12 in. threaded rod	2
E145-1/2EGC	Nut	8
E147-1/2EGC	Washer	8
E148-1/2EGC	Lock washer	4
AUS-STRUT-KIT	Bolt Kit	
A1200HS100PG	14 in. strut	1
E142-1/2X200EGC	Bolt	2
E145-1/2EGC	Nut	2
E147-1/2EGC	Washer	4
E148-1/2EGC	Lock washer	2
AUS125PCSS6	4-1/2 in. stainless steel 316 strap (to restrain 1-1/4 in. pipe)	2
AUS150PCSS6	5 in. strap (to restrain 1-1/2 in. pipe)	2
AUS200PCSS6	6 in. strap (to restrain 2 in. pipe)	2



Beam Clamps

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Design Loads

Where design loads are indicated, they provide for a safety factor of 3 in conformance with the American Standard Code for Pressure Piping. For more information, see page A57 for Engineering Data and Specifications.

Finishes and Special Materials

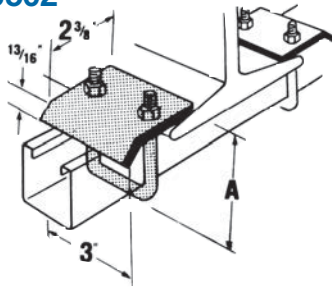
Hot-Dipped Galvanized (HDGC) is standard for all Superstrut® beam clamps. The material is zinc coated after fabrication providing total product protection on all surfaces. The fabricated beam clamps are suspended and then dipped into tanks of hot zinc for a prolonged period, creating a coherent bond.

Selected beam clamps can also be available in GoldGalv® (no suffix) or Stainless Steel Type 316 (SS6C). Contact your Regional Sales Office for availability and minimum quantities.

Beam Clamps

Beam Clamps for Mounting Channel

U501, U502



***Finishes**

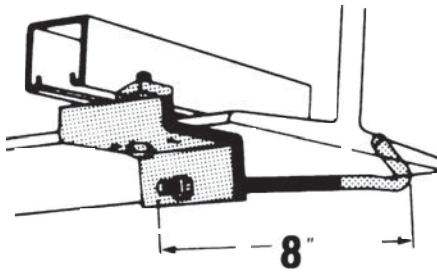
- HDG
- EG
- GoldGalv®
- SS6C

Cat. No.	For Channel	Size (in.)	Wt./C lb.
U501*	A1200 A1400	3-3/16	90
	B1200 B1400		
	C1200 B1402		
U502*	A1202 A1402	4-13/16	100
	C1202 H1200		

Furnished complete.
Design Load U501 : 2150 lb.
U502 : 3000 lb.

U504

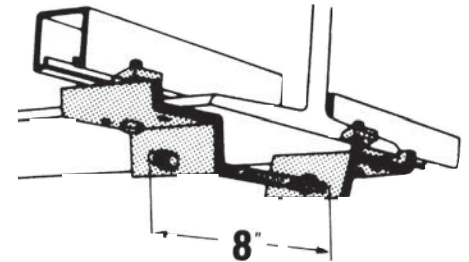
- U504HDG
- U504EG
- U504
- U504SS6



Can be used with all channels.
Wt./C 140 lb.

U505

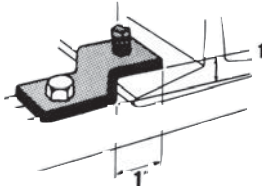
- U505HDG
- U505EG
- U505



Can be used with all channels.
Wt./C 270 lb.

U510

- U510HDGC
- U510EG
- U510
- U510SS6

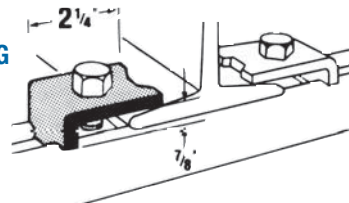


Design Load/lb.	Channel
1000	A-1200
800	A-1400

1/2 in. x 1-1/2 in. set screw included.
Order separately one 1/2 in. x 1-1/2 in. hex head cap screw and 1/2 in. channel nut.
Wt./C 75 lb.

512U

- 512UHDG
- 512UEG
- 512U

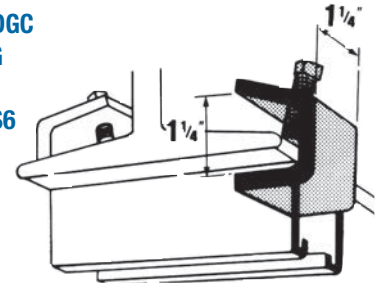


Design Load/lb.	Channel
1000	A-1200
800	A-1400

Order separately one 1/2 in. x 1-1/2 in. hex head cap screw and 1/2 in. channel nut.
Wt./C 26 lb.

U514

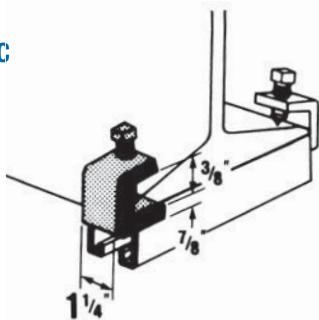
- U514HDGC
- U514EG
- U514
- U514SS6



3/8 in. x 1-1/2 in. set screw included.
Design Load 750 lb./pair
Wt./C 40 lb.

U514-A

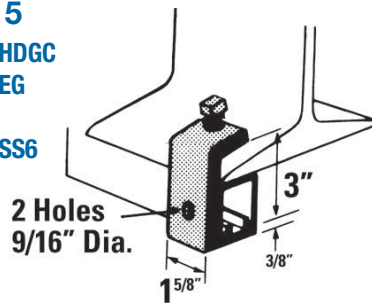
- U514-AHDGC
- U514-AEG
- U514-A
- U514-ASS6



1/2 in. x 1-1/2 in. set screw included.
Design Load 1650 lb./pair
Wt./C 59 lb.

U515

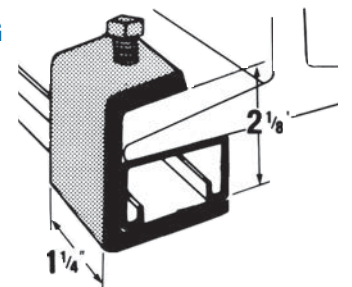
- U515HDGC
- U515EG
- U515
- U515SS6



For all A Series channel.
1/2 in. x 1-1/2 in. set screw included.
Design Load 800 lb.
Wt./C 95 lb.

U515B

- U515BHDG
- U515BEG
- U515B
- U515BSS6



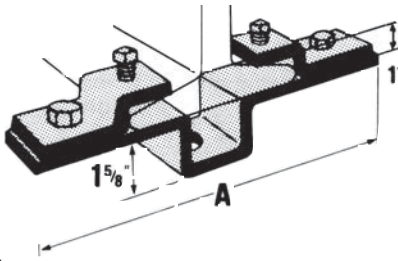
For all B Series channel.
1/2 in. x 1-1/2 in. set screw included.
Design Load 800 lb.
Wt./C 91 lb.

Materials	HDG(C)	→ Hot-Dipped Galvanized
	EG(C)	→ ElectroGalvanized
	(No suffix)	→ GoldGalv®
	SS6(C)	→ Stainless Steel 316

Beam Clamps

Beam Clamps for Mounting Channel

U520, U521, U522



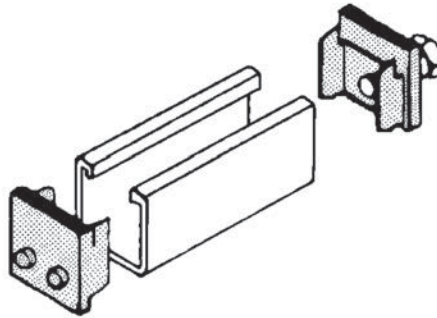
*Finishes
• GoldGalv®

Cat. No.	Flange Width	A	Wt./C lb.	Design Load lb./ea
U520*	2-3/8 - 4-1/2	8-3/4	328	2000
U521*	3-3/4 - 5-3/4	10	343	1300
U522*	5-5/8 - 7-5/8	11-7/8	353	900

Nuts, cap screws and set screws included.

U544 Single Adjusting Screw End Cap Set

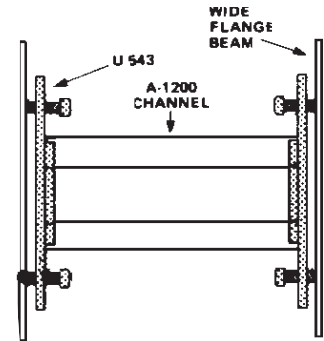
U544EG



Should be ordered as one set.
Wt./C 39 lb.

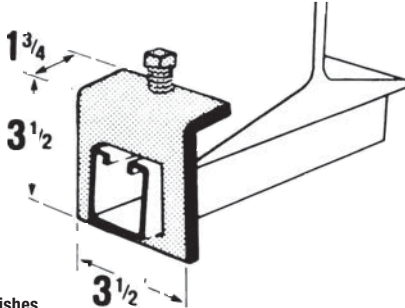
U543 Adjusting Screw End Caps

U543HDG
U543EG
U543



Should be ordered in multiples of two (2).
Wt./C 44 lb.

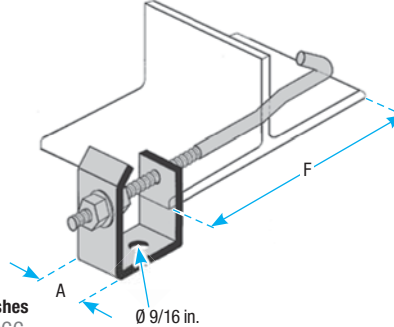
A597



*Finishes
• HDGC
• SS6C

Cat. No.	Channel Series	Wt./C lb.	Design Load lb./ea
A597*	A	108	800

U570-1, U570-2



*Finishes
• HDGC

Cat. No.	A (in.)	F (in.)	Wt./C lb.	Design Load lb./ea
U570-1*	1-1/2	4 to 9	240	800
U570-2*	1-1/2	7 to 17	300	800

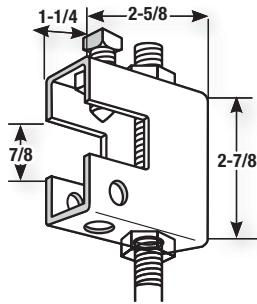
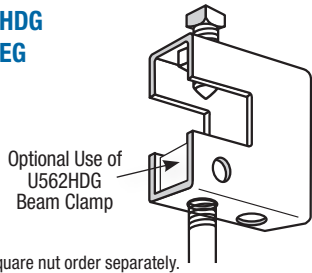
Materials	HDG(C)	EG(C)	(No suffix)	SS6(C)
	→ Hot-Dipped Galvanized	→ ElectroGalvanized	→ GoldGalv®	→ Stainless Steel 316

Beam Clamps

Beam Clamps for Hanging Rod

U562 Beam Clamp

U562HDG
U562EG
U562



E146 square nut order separately.
1/2 in. set screw included.

1/2 in. set screw included.

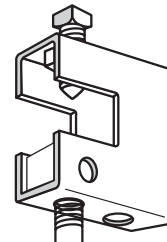
Rod Size (in.)	Wt./C lb.	Design Load lb./ea
1/2	80	800

For 20° swivel application use ES-145-1/2 nut.

Rod Size (in.)	Wt./C lb.	Design Load lb./ea
1/2	80	500

UM562 Beam Clamp

UM562HDGC
UM562EG
UM562
UM562SS6



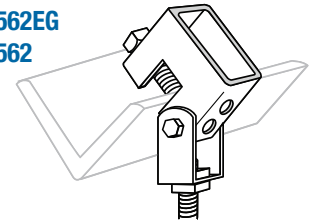
E146 square nut order separately.
1/2 in. set screw included.

Rod Size (in.)	Wt./C lb.	Design Load lb./ea
1/2	100	1200

For 20° swivel application use ES-145-1/2 nut.

US562 Beam Clamp with Swing Hanger

US562HDG
US562EG
US562

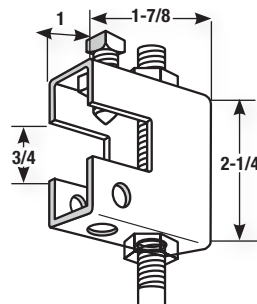
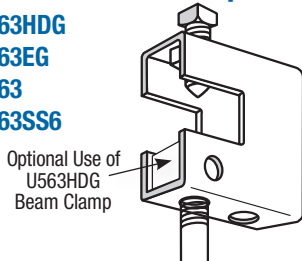


1/2 in. set screw included.

Rod Size (in.)	Wt./C lb.	Design Load lb./ea
1/2	113	800

U563 Beam Clamp

U563HDG
U563EG
U563
U563SS6



Square nut order separately.
3/8 in. set screw included.

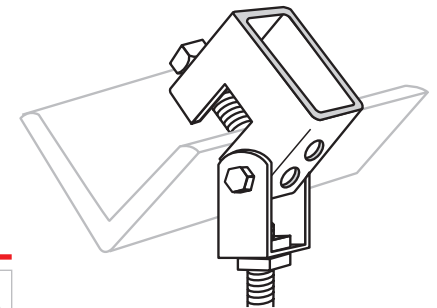
3/8 in. set screw included.

Rod Size (in.)	Wt./C lb.	Design Load lb./ea
3/8	33	400

Rod Size (in.)	Wt./C lb.	Design Load lb./ea
3/8	33	240

US563 Beam Clamp with Swing Hanger

US563HDG
US563

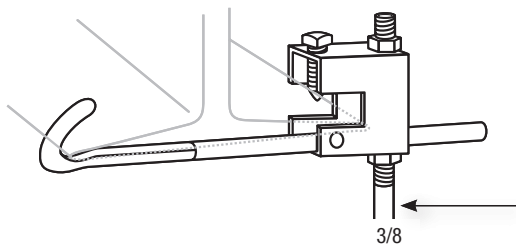


3/8 in. set screw included.

Rod Size (in.)	Wt./C lb.	Design Load lb./ea
3/8	50	400

U569 Beam Clamp

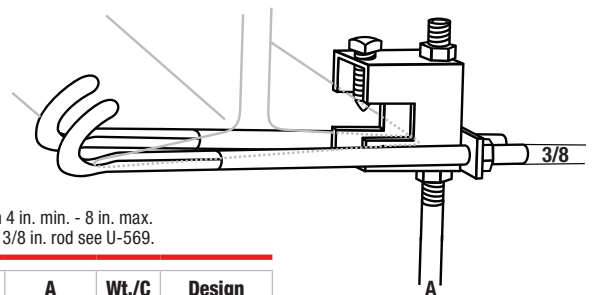
U569HDG
U569



Maximum flange width 5 in.

Cat. No.	A Size (in.)	Wt./C lb.	Design Load lb./ea
U569	3/8	150	400

A570 Beam Clamp with Safety Rod



Flange width 4 in. min. - 8 in. max.
For use with 3/8 in. rod see U-569.

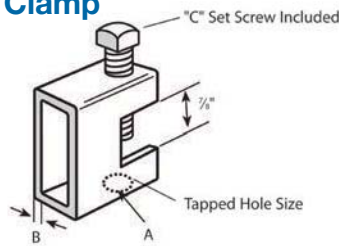
Cat. No.	A Size (in.)	Wt./C lb.	Design Load lb./ea
A570HDG	1/2	220	500

Materials	HDG(C)	→ Hot-Dipped Galvanized
	EG(C)	→ Electrogalvanized
	(No suffix)	→ GoldGalv®
	SS6(C)	→ Stainless Steel 316

Beam Clamps

Beam Clamps for Hanging Rod

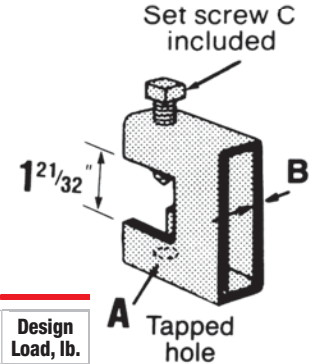
U560 Heavy Duty Beam Clamp



- *Finishes
- GoldGalv®
 - EG

Cat. No.	A (in.)	B (in.)	C (in.)	Wt./C lb.	Design Load, lb.
U560-1/4*	1/4	1/8	3/8 x 1-1/2	67	1050
U560-3/8*	3/8	1/8	3/8 x 1-1/2	67	1050
U560-1/2*	1/2	1/4	1/2 x 1-1/2	130	2650
U560-5/8*	5/8	1/4	1/2 x 1-1/2	130	2650

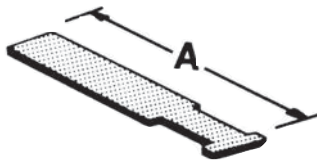
U564 Heavy Duty Beam Clamp



- *Finishes
- GoldGalv®
 - EG

Cat. No.	A (in.)	B (in.)	C (in.)	Wt./C lb.	Design Load, lb.
U564-3/8*	3/8	1/8	3/8 x 2-3/4	109	1300
U564-1/2*	1/2	1/4	1/2 x 2-3/4	201	3150
U564-5/8*	5/8	1/4	1/2 x 2-3/4	201	3150

U568 Beam Clamp Safety Strap

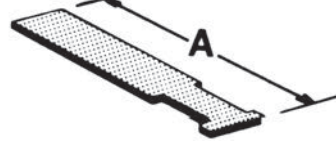


For U563 beam clamp.

Cat. No.	Beam Flange Width (in.)	A (in.)	Wt./C lb.
U568-1EG	6	8	18
U568-2EG	9	11	28

16 gauge material

U568 Beam Clamp Safety Strap



For U562 and UM562 beam clamp.

Cat. No.	Beam Flange Width (in.)	A (in.)	Wt./C lb.
U568-3EG	6	9	25
U568-4EG	9	12	33
U568-5EG	12	15	42

16 gauge material

U568 Beam Clamp Safety Strap

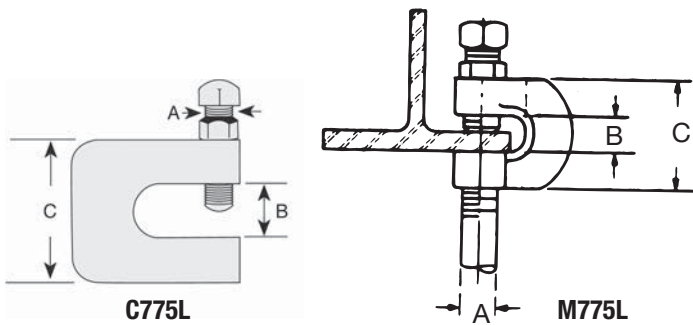


For U560 and U564 beam clamp.

Cat. No.	Beam Flange Width (in.)	A (in.)	Wt./C lb.
U568-4EG	6	9	33
U568-5EG	9	12	42
U568-6EG	12	15	24

16 gauge material

C775L / M775L Clamp with Lock Nut



Standard Finish - Electrogalvanized (EG)

Malleable Iron (M775L)

Carbon Steel (C775L)

Cat. No.	Pipe Size (in.)	Dimensions			Wt./C lb.	Design Load, lb.
		A (in.)	B (in.)	C (in.)		
C775L-3/8EG	3/8	3/8	3/8	3/4	38	400
C775L-1/2EG	1/2	3/8	3/8	3/4	39	500
C775L-5/8EG	5/8	1/2	1/2	3/4	60	550
C775L-3/4EG	3/4	5/8	5/8	3/4	69	600
C775L-7/8EG	7/8	3/4	3/4	1	184	900
M775L-3/8EG	3/8	3/8	3/4	1-3/4	27	400
M775L-1/2EG	1/2	1/2	3/4	1-3/4	35	400
M775L-5/8EG	5/8	5/8	3/4	2	52	440
M775L-3/4EG	3/4	3/4	3/4	2	63	500

Materials	HDG(C)	EG(C)	(No suffix)	SS6(C)
	→ Hot-Dipped Galvanized	→ Electrogalvanized	→ GoldGalv®	→ Stainless Steel 316

Beam Clamps

Beam Clamps for Hanging Rod

500SC, 502, 503SC, 507, 508, 509, 510, 511 Beam Clamp



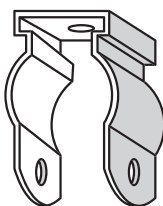
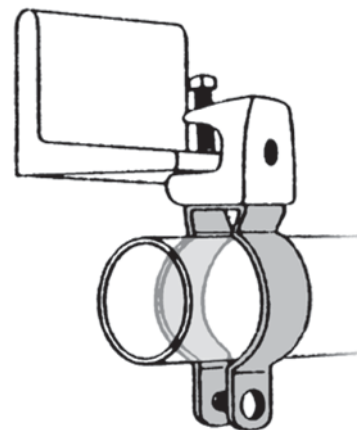
Standard Finish -
Electrogalvanized (no suffix)

Cat. No.	Tapped Holes	Base Dim.		Jaw Opening (in.)	Wt./C lb.	Design Load/lb.
		A (in.)	B (in.)			
500SC	1/4 - 20	1	1-1/4	15/16	18	450
502	3/8 - 16	2	2	1	92	1300
503SC	1/2 - 13	2-5/8	2-1/2	1	164	1300
507	1/2 - 13	2-1/2	2-3/8	1-3/8	165	1700
508	1/2 - 13	2-1/2	2-3/8	2-1/8	184	1700
509	10 - 24	1	1-1/4	15/16	22	375
510	1/4 - 20	27/32	1-1/8	5/8	15	400
511	10 - 24	27/32	1-1/8	5/8	15	400

6H Series in combination with 500 Series Beam Clamp Conduit and Pipe Hanger

Features

- Accommodates 1/2 in. through 4 in. EMT or rigid conduit
- Can be used for either vertical or horizontal installation
- 6H-TB Series is threaded so there are less parts to handle or drop
- Installs easily with a screwdriver



6H Series
without bolt
Fig. 1



6H-B Series
with bolt and hex nut
Fig. 2



6H-T Threaded Series
threaded without bolt
Fig. 3



6H-TB Threaded Series
threaded with bolt
Fig. 4

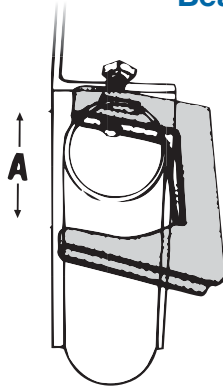
Without Bolt		With Bolt		EMT (in.)	Rigid Conduit or Pipe (in.)	Qty. per Box
Cat. No.	Fig. No.	Cat. No.	Fig. No.			
6H0	1	6H0-B	2	1/2	3/8-1/2	100
6H0-T	3	6H0-TB	4			
6H1	1	6H1-B	2	3/4	3/4	
6H1-T	3	6H1-TB	4			
6H2	1	6H2-B	2	1	1	
		6H2-TB	4			
6H2 1/2	1	6H2 1/2B	2	1-1/4	-	
		6H2 1/2-TB	4			
6H3-SC	1	6H3-B	2	1-1/2	1-1/4	
		6H3-TB	4			
6H4	1	6H4-B	2	-	1-1/2	
		6H4-TB	4			
6H5	1	6H5-B	2	2	2	
		6H5-TB	4			
6H6	1	6H6-B	2	2-1/2	2-1/2	
6H7	1	6H7-B	2	3	3	
6H8	1	6H8-B	2	3-1/2	3-1/2	
6H9	1	6H9-B	2	4	4	

Standard Finish - Electrogalvanized (no suffix). Use SS suffix for Stainless Steel.
Load rating: 500 lb. with a safety factor of 3. (For weight per 100 see page A38.)

Beam Clamps

Beam Clamps for Mounting Pipe and Conduit

U571, U572 Conduit Clamp



For attaching 1/2 in. thru 1-1/2 in. conduit to beam, channel, angle or column. Secures conduit to the support parallel or at right angles to it.

5/16 in. set screw

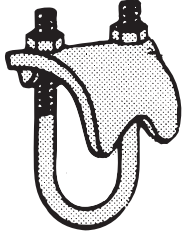
12 gauge material

Standard Finish - GoldGalv®

Wt./C 38 lb.

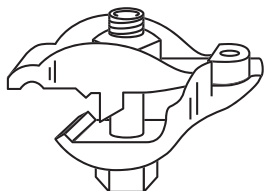
Cat. No.	Conduit Size (in.)	Max. Flange Thickness (in.)	Dim. A (in.)	Wt./C lb.
U571	1/2	1	1-3/4	36
	3/4	3/4		
	1	1/2		
U572	3/4	1-1/2	2-1/2	59
	1	1-1/4		
	1-1/4	1		
	1-1/2	5/8		

Pipe Supports



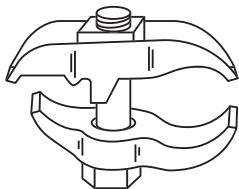
Type RC and RCS

- Malleable Iron
- For mounting pipe or conduit at right angles to the beam
- Use SS316 suffix for 316 Stainless Steel
- Use HDG suffix for Hot-Dipped Galvanized



Type EC

- Malleable Iron
- For mounting pipe or conduit vertically across the beam
- Use HDG suffix for Hot-Dipped Galvanized
- CSA Certified



Type PC

- Malleable Iron
- For mounting pipe or conduit parallel to the beam
- Use HDG suffix for Hot-Dipped Galvanized

Pipe Supports

Three types of pipe clamps are available to provide right angle, vertical and parallel attachment to a beam. Types RC, EC and PC are malleable iron clamps with an edge that grips the structural member for maximum holding power when tightened.

Type RCS clamps are all steel, providing two bearing surfaces for strong attachment for mounting pipe or conduit at right angles to the beam.

All parts are electrogalvanized (no suffix) including the threads. The clamps are designed for clamping to a wide variety of beam thicknesses and tapers. Can be installed using only a wrench.

Cat. No. and Size	O.D. of Conduit or Pipe (in.)	Nom. Conduit or Pipe Size (in.)	Std. Ctn.	Wt./C lb.
RCS-3/8	0.675	3/8	50	31
RCS-1/2	0.840	1/2		34
RCS-3/4	1.050	3/4		39
RCS-1	1.315	1		42
RCS-1-1/4	1.660	1-1/4		43
RCS-1-1/2	1.900	1-1/2		60
RCS-2	2.375	2		72
RC-1/2	0.840	1/2		36
RC-3/4	1.050	3/4		43
RC-1	1.315	1		49
RC-1-1/4	1.660	1-1/4	51	
RC-1-1/2	1.900	1-1/2	54	
RC-2-SC	2.375	2	25	76
RC-2-1/2	2.875	2-1/2		107
RC-3	3.500	3		116
RC-3-1/2	4.000	3-1/2		134
RC-4-SC	4.500	4	20	158
EC-1/2	0.840	1/2	50	69
EC-3/4	1.050	3/4		78
EC-1	1.315	1	25	83
EC-1-1/4	1.660	1-1/4		108
EC-1-1/2	1.900	1-1/2		112
EC-2	2.375	2	10	140
EC-2-1/2	2.875	2-1/2		183
EC-3	3.500	3	50	203
PC-3/8	0.675	3/8		32
PC-1/2	0.840	1/2		53
PC-3/4	1.050	3/4		53
PC-1	1.315	1	25	61
PC-1-1/4	1.660	1-1/4		79
PC-1-1/2	1.900	1-1/2		56
PC-2	2.375	2	10	116
PC-2-1/2	2.875	2-1/2		148
PC-3	3.500	3	10	175
PC-3-1/2	4.000	3-1/2		199
PC-4	4.500	4		224

Beam Clamps

Beam Fittings

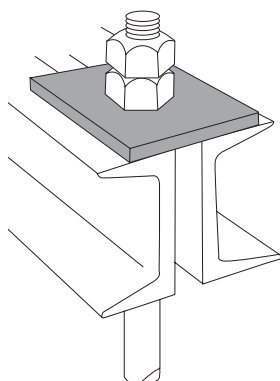
C781 Square Washer

*Finishes

- B
- EDG
- EG
- SS6

Used for beam applications.

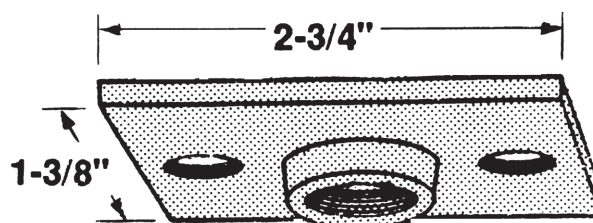
For channel applications use AB241.



STD. PACK 50

Cat. No.	Rod Size (in.)	Hole Size (in.)	Overall Dimensions	Wt./C lb.
C781-3/8*	3/8	7/16	3 x 3 x 3/16	27
C781-1/2*	1/2	9/16	3 x 3 x 3/16	27
C781-5/8*	5/8	11/16	3 x 3 x 1/4	47
C781-3/4*	3/4	13/16	3 x 3 x 1/4	42
C781-7/8*	7/8	15/16	4 x 4 x 3/8	85
C781-1*	1	1-1/8	4 x 4 x 3/8	160

M742R Ceiling Flange

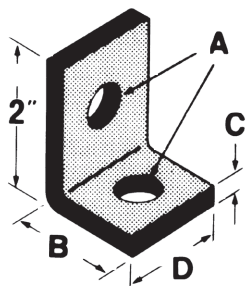


*Finishes

- B
- EG

Cat. No.	Rod Size (in.)	Wt./C lb.
M742R-3/8*	3/8	16
M742R-1/2*	1/2	16

540 Side Beam Hanger Clip



*Finishes

- B
- EG
- GoldGalv®

Cat. No.	A (in.)	B (in.)	C (in.)	D (in.)	Wt./C lb.
540-3/8*	7/16	1-7/8	1/4	7/8	38
540-1/2*	9/16	1-7/8	1/4	1-5/8	36
540-5/8*	11/16	2-1/2	3/8	2	84
540-3/4*	13/16	2-1/2	3/8	2	113

Materials	Code	Description
	HDG(C)	Hot-Dipped Galvanized
	EG(C)	Electrogalvanized
	(No suffix)	GoldGalv®
	SS6(C)	Stainless Steel 316
	B	Bare

542 Side Beam Hanger Clip

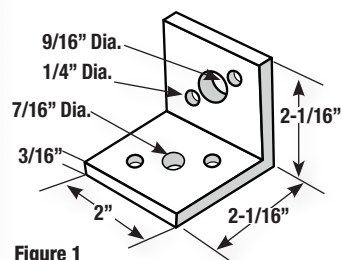


Figure 1

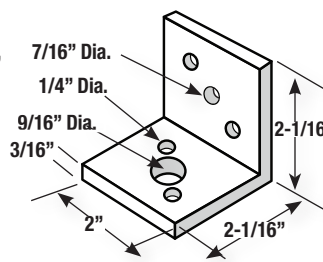


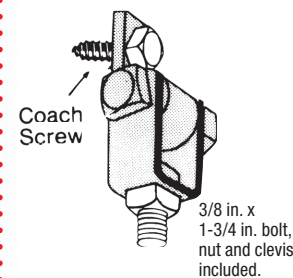
Figure 2

Cat. No.	Figure	Rod Size (in.)	Design Load/lb.	Wt./C lb.
542	1	3/8	610	35
	2	1/2	1000	38

Standard Finish - GoldGalv®

For 3/8 in. and 1/2 in. rods.

S541 Swing Connector



Cat. No.	Rod Size (in.)	Wt./C lb.
S541-3/8	3/8	31

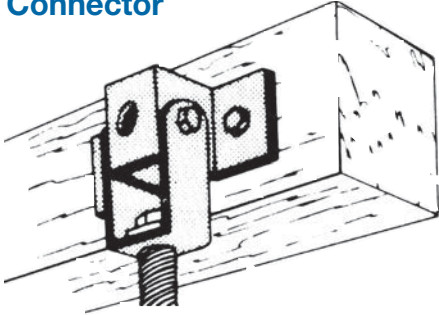
Standard Finish - GoldGalv®

For use with wood beam.

Beam Clamps

Beam Fittings

U577 Clevis and Swing Connector

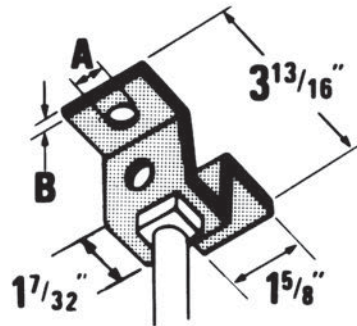


Cat. No.	Rod Size (in.)	Wt./C lb.
U577-1/2	1/2	69

Standard Finish - GoldGalv®

For use with wood beam.

U576 Hanger Clevis



Cat. No.	Hole A (in.)	Material Thickness B (in.)	Wt./C lb.
U576-3/8	7/16	3/16	27
U576-1/2	9/16		

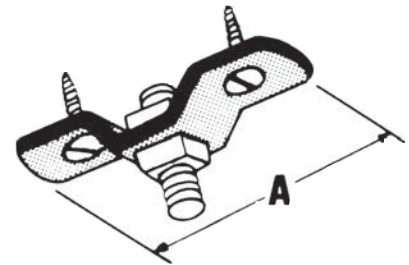
Standard Finish - GoldGalv®

For rods up to 1/2 in.

Mounting holes 7/16 in. diameter.

For use with wood beam.

U579 Ceiling Flange



Cat. No.	A (in.)	Wt./C lb.
U579-3/8	3-1/2	30
U579-1/2	4-1/4	50

Standard Finish - GoldGalv®

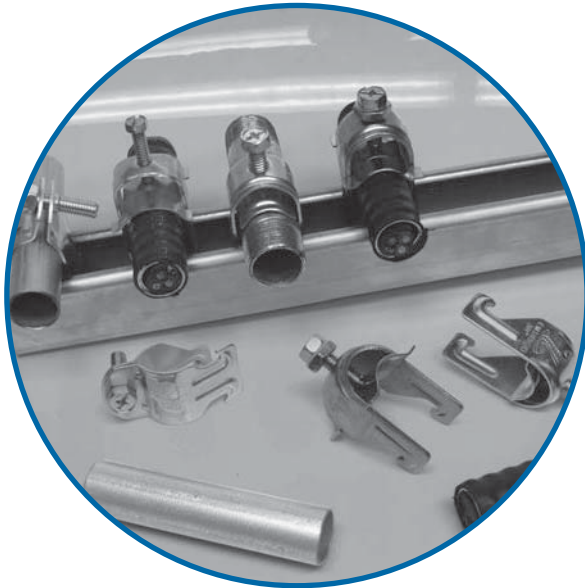
Malleable Iron

Nuts and wood screws not included.

Mounting holes 13/32 in.

Materials	Code	Description
	HDG(C)	Hot-Dipped Galvanized
	EG(C)	Electrogalvanized
	(No suffix)	GoldGalv®
	SS6(C)	Stainless Steel 316
	B	Bare

Pipe Straps, Pipe Clamps and Hangers



Design Loads

Where design loads are indicated, they provide for a safety factor of 3 in conformance with the American Standard Code for Pressure Piping.

Hanger Design

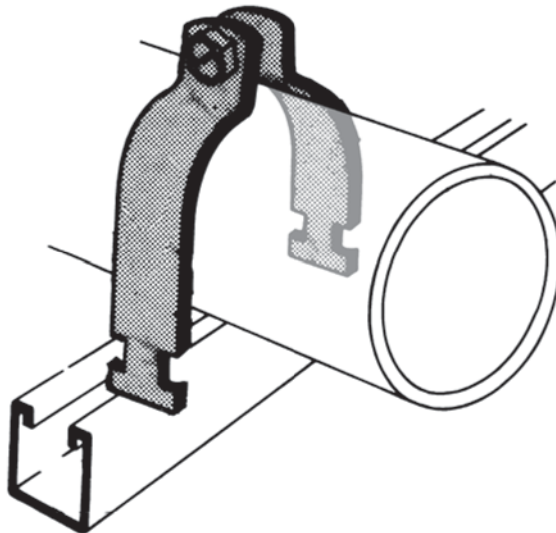
Pipe hangers are of advanced design to be user friendly.

Finishes and Special Materials

The standard finish is Electrogalvanized (EGC) or GoldGalv®. Some products are offered in Aluminum and Stainless Steel where noted.

701 O.D. Pipe and Conduit Clamp

Machine screw and nut included.



Standard Finishes and Materials

PG = Pregalvanized (i.e. 701-045PG)

AL = Aluminum (i.e. 701-045AL) with zinc plated hardware

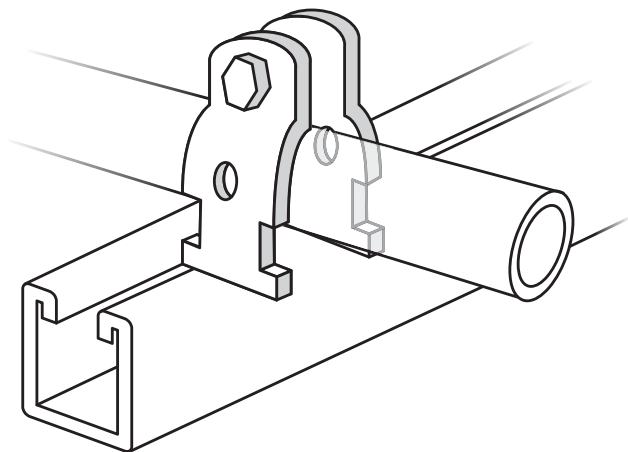
SS6 = Stainless Steel Type 316 (i.e. 701-045SS6)

N° de cat.	O.D. of pipe		Rigid Cond.	EMT Cond.	WT./C. lb.	Std. Pack	
	(in.)	(mm)					
701-045PG	0.36-0.45	9-11.5	-	-	9	10	
701-055PG	0.46-0.55	11.5-14	-	-	10		
701-065PG	0.56-0.65	14-17	-	-	11		
701-075PG	0.66-0.75	17-19.5	-	1/2	13		
701-088PG	0.76-0.88	19.5-22.5	1/2	-	15		
701-100PG	0.89-1.00	22.5-25.4	-	3/4	16		
701-113PG	1.01-1.13	25.5-29	3/4	-	17		
701-126PG	1.14-1.26	29-32	-	1	18		
701-140PG	1.27-1.40	32-36	1	-	18		
701-153PG	1.41-1.53	36-39	-	1-1/4	19		
701-167PG	1.54-1.67	39-42.5	1-1/4	-	20		
701-180PG	1.68-1.80	42.5-46	-	1-1/2	23		
701-193PG	1.81-1.93	46-49	1-1/2	-	26		
701-204PG	1.93-2.04	49-52	-	-	30		
701-225PG	2.10-2.25	53-57.5	-	2	32		
701-237PG	2.26-2.37	57.5-60	2	-	34		
701-245PG	2.33-2.45	59.95-62.5	-	-	36		
701-257PG	2.46-2.57	62.5-65.5	-	-	38		
701-287PG	2.75-2.87	70-73	2-1/2	2-1/2	40		
701-294PG	2.88-2.94	73-75	-	-	42		
701-306PG	2.95-3.06	75-78	-	-	42.5		
701-319PG	3.07-3.19	78-81	-	-	43		
701-350PG	3.36-3.50	85.5-89	3	3	45		
701-356PG	3.51-3.56	89-90	-	-	46		
701-379PG	3.70-3.79	94-96.5	-	-	48		
701-400PG	3.80-4.00	96.5-101.5	3-1/2	3-1/2	49		
701-450PG	4.25-4.50	108-114	4	4	70		
701-556PG	5.25-5.56	121-141	5	5	75		
701-665PG	6.25-6.65	146-170	6	6	80		
701-876PG	8.50-8.75	197-222	8	8	85		
							5

Pipe Straps, Pipe Clamps and Hangers

Conduit and Cable Clamps

703 Universal Clamp



Cat. No.	EMT/ Rigid (in.)	Conduit O.D.O	Material Thickness	Wt./C lb.	Std. Ctn.
703-1/2EG	1/2	0.706 - 0.840	16 ga.	13	100
703-3/4EG	3/4	0.932 - 1.050	14 ga.	14	100
703-1EG	1	1.163 - 1.315	14 ga.	15	100
703-1-1/4EG	1-1/4	1.508 - 1.660	14 ga.	18	50
703-1-1/2EG	1-1/2	1.738 - 1.900	14 ga.	28	50
703-2EG	2	2.195 - 2.375	14 ga.	29	50

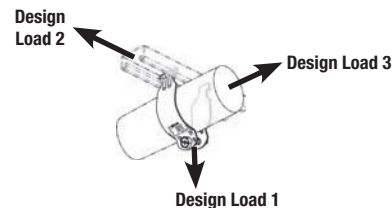
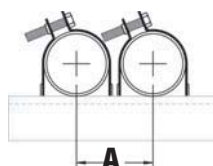
Standard Finishes - GoldGalv® (i.e.) 703-1/2

Electrogalvanized (EG suffix) (i.e.) 703-1-1/2EG

One size fits both Rigid and Electric Metal Tubing (EMT).

Individually assembled with screw and nut.

Quik Clamp II™



Cat. No.	Dimension A EMT in. (mm)	Dimension A Rigid Conduit in. (mm)	Quantity per Box	Wt./C lb.
TBQC050	1-5/16 (33.5)	1-1/4 (31.5)	100	10
TBQC075	1-3/4 (44.5)	1-11/16 (43)	100	12
TBQC100	1-13/16 (46)	1-3/4 (44.5)	100	13
TBQC125	2-1/8 (54)	2 (51)	50	15
TBQC150	2-3/8 (60.5)	2-3/16 (55.5)	50	16
TBQC200	2-5/8 (66.5)	2-1/2 (63.5)	50	19
TBQC250	3-1/16 (78)	3-1/16 (78)	25	29
TBQC300	3-11/16 (93.5)	3-11/16 (93.5)	25	34
TBQC350	4-3/16 (106.5)	4-3/16 (106.5)	25	38
TBQC400	4-11/16 (119)	4-11/16 (119)	25	42

Design Load 1 Static Load Limit lb. (kg)	Design Load 2 lb. (kg)	Design Load 3 lb. (kg)
200 (90)	50 (23)	50 (23)
200 (90)		
200 (90)		
200 (90)		
200 (90)		
200 (90)		
200 (90)		
350 (158)		
350 (158)		
350 (158)		

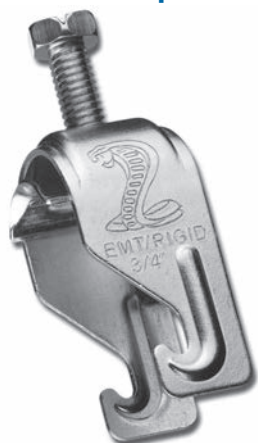
Design Load 1 has a safety factor of 4.
Design Loads 2 and 3 have
a safety factor of 1.

Standard material electrogalvanized steel.

Pipe Straps, Pipe Clamps and Hangers

Conduit and Cable Clamps

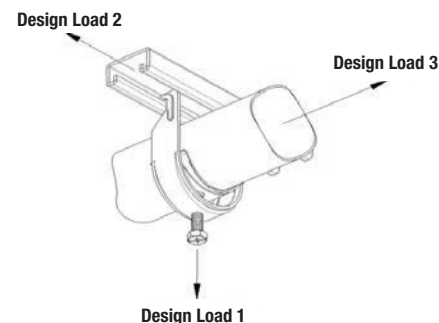
Cobra® Clamp



Standard material is commercial-grade, bright electrogalvanized steel.

Aluminum: Add the suffix **AL** to the catalogue number (i.e. CPC050AL)

Stainless steel: Add the suffix **SS6** to catalogue number (i.e.: CPC050SS6). Stainless steel bolt head is hexagonal and slotted only.



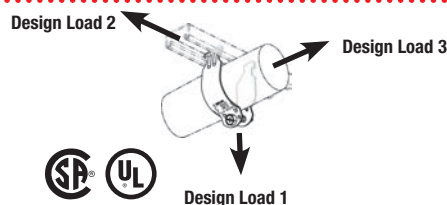
Cat. No.	EMT Trade Size (in.)	Rigid Cond. Trade Size (in.)	Cable O.D. Range (in.)	Static Load Limit (lb.) Safety Factor = 4	Qty. per Box	Wt./C lb.	Torque Value (ft.-lb.)
CPC025	1/4	1/4	0.312 - 0.600	200	100	8	35
CPC050	1/2	1/2	0.650 - 0.890	200	100	10	
CPC075	3/4	3/4	0.860 - 1.110	200	100	12	
CPC100	1	1	1.100 - 1.400	200	100	14	
CPC125	1 1/4	1 1/4	1.400 - 1.725	200	50	16	
CPC150	1 1/2	1 1/2	1.690 - 1.980	200	50	18	
CPC200	2	2	1.980 - 2.576	200	50	24	
CPC250	2 1/2	2 1/2	2.576 - 3.060	350*	25	36	
CPC300	3	3	3.060 - 3.626	350*	25	42	
CPC350	3 1/2	3 1/2	3.626 - 4.126	350*	25	46	
CPC400	4	4	4.126 - 4.626	350*	25	50	

* Aluminum product has a static load of 250 lb.

Design Load 1 Static Load Limit lb. (kg)	Design Load 2 lb. (kg)	Design Load 3 lb. (kg)
200 (91)	50 (23)	50 (23)
200 (91)		
200 (91)		
200 (91)		
200 (91)		
200 (91)		
200 (91)		
350 (159)		
350 (159)		
350 (159)		
350 (159)		
350 (159)		
350 (159)		

Loc-King Cobra™ Clamp

- Superior design load capabilities for heavy-duty applications
- Pre-set torque prevents over-tightening
- Anti-vibration nut
- Steel construction with GoldGalv® finish



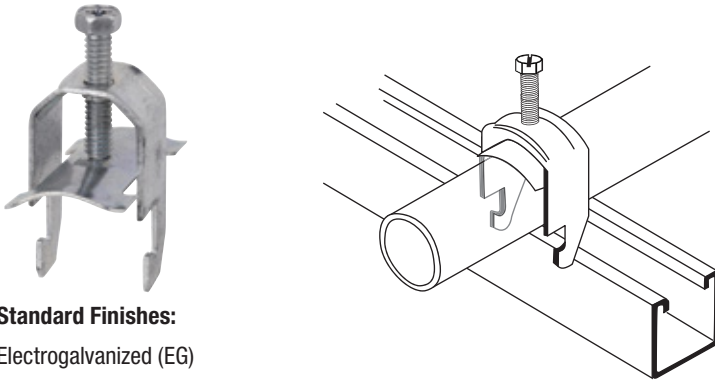
Cat. No.	EMT Trade Size (in.)	Rigid Cond. Trade Size (in.)	Cable O.D. Range (in.)	Static Load Limit (lb.) Safety Factor = 4	Qty. per Box	Wt./C lb.	Torque Value (ft.-lb.)
LKCPC050	1/2	1/2	0.650 - 0.890	100	15	10	35
LKCPC075	3/4	3/4	0.860 - 1.110	100	16	12	
LKCPC100	1	1	1.100 - 1.400	50	19	14	
LKCPC125	1 1/4	1 1/4	1.400 - 1.725	50	23	16	
LKCPC150	1 1/2	1 1/2	1.690 - 1.980	50	27	18	
LKCPC200	2	2	1.980 - 2.576	50	38	24	
LKCPC250	2 1/2	2 1/2	2.576 - 3.060	25	44	36	
LKCPC300	3	3	3.060 - 3.626	25	53	42	
LKCPC350	3 1/2	3 1/2	3.626 - 4.126	25	58	46	
LKCPC400	4	4	4.126 - 4.626	25	66	50	

Design Load 1 Static Load Limit lb. (kg)	Design Load 2 lb. (kg)	Design Load 3 lb. (kg)
300 (136)	50 (23)	50 (23)
300 (136)		
300 (136)		
300 (136)		
300 (136)		
300 (136)		
300 (136)		
450 (204)		
450 (204)		
450 (204)		
450 (204)		
450 (204)		
450 (204)		

Pipe Straps, Pipe Clamps and Hangers

Conduit and Cable Clamps

CH118 Heavy Duty Cable Clamp



Standard Finishes:

Electrogalvanized (EG)

Stainless Steel Type 316 clamp comes with Type 304 stainless steel hardware.

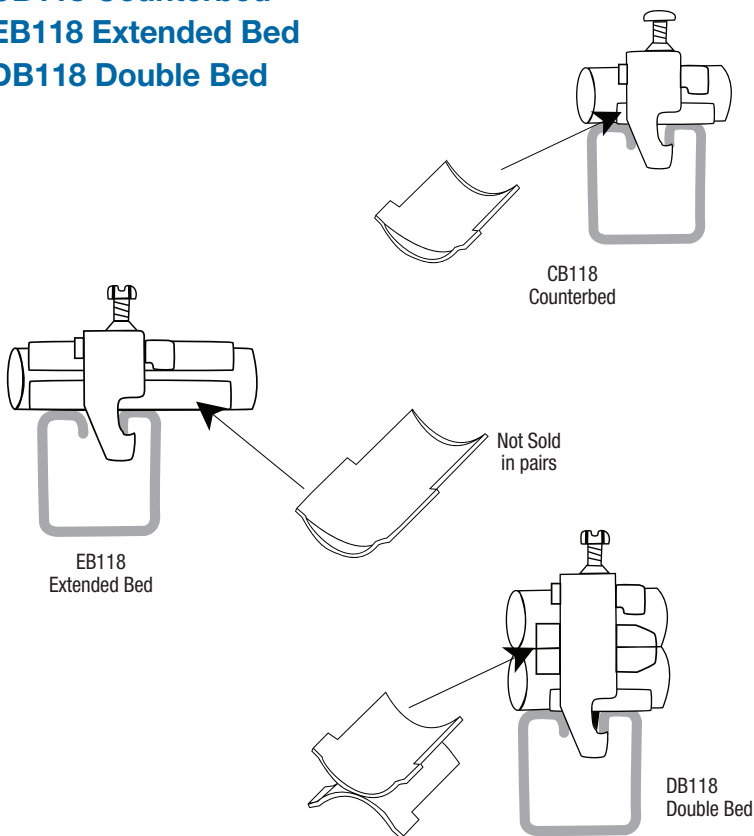
Cat. No.	O.D. of cable or pipe		Rigid Cond.	EMT Cond.	WT./C. lb.
	(in.)	(mm)			
CH118-055EG	0.40-0.55	10-14	–	–	8
CH118-081EG	0.50-0.81	13-21	1/2	1/2	9
CH118-110EG	0.70-1.10	18-28	3/4	3/4	17
CH118-125EG	0.85-1.25	22-27	3/4	1	18
CH118-135EG	1.00-1.35	26-36	1	1	19
CH118-175EG	1.33-1.75	34-44	1-1/4	1-1/4	21
CH118-205EG	1.65-2.05	42-52	1-1/2	1-1/2	24
CH118-250EG	2.12-2.50	54-64	2	2	48
CH118-300EG	2.60-3.00	66-76	2-1/2	2-1/2	54
CH118-325EG	2.75-3.25	70-82	–	–	65
CH118-375EG	3.25-3.75	82-94	3	3	105
CH118-425EG	3.75-4.25	94-110	3-1/2	3-1/2	113
CH118-475EG	4.25-4.75	110-120	4	4	124

Available in double or triple configurations.

Example: Double - CH128-047EG

Triple - CH138-047EG

CB118 Counterbed EB118 Extended Bed DB118 Double Bed



Cat. No.	Wt./C. lb.
Counterbed	
CB118-055PG	1
CB118-090PG	2
CB118-110PG	3-1/2
CB118-140PG	4
CB118-175PG	4-1/2
CB118-200PG	5
CB118-250PG	11
CB118-300PG	13
Extended bed	
EB118-047PG	4
EB118-055PG	4-1/2
EB118-090PG	6
EB118-110PG	13-1/2
EB118-140PG	16
EB118-175PG	17
EB118-200PG	20
EB118-250PG	30
EB118-300PG	38
Double Bed	
DB118-047PG	2
DB118-055PG	2
DB118-070PG	3

Standard Finishes - Pregalvanized (PG)

Pipe Straps, Pipe Clamps and Hangers

Conduit and Cable Clamps

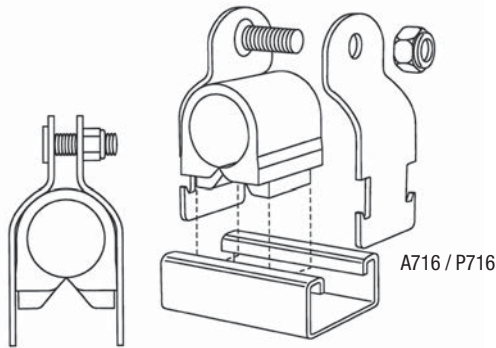
A716 Snap•Guard® Cushioned Clamp Tube Series

P716 Snap•Guard® Cushioned Clamp Pipe Series

Standard Finishes GoldGalv®

Available in Stainless Steel 316 use SS316 suffix. (i.e) A716-1SS316

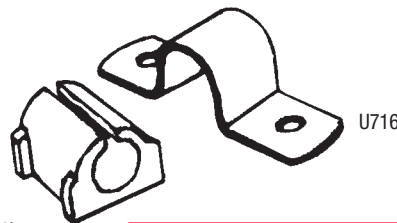
Electrogalvanized (Silver) - use EG suffix. (i.e) A716-1EG



- Assembly consisting of GoldGalv® finish steel clamp with bolt/locknut and cushion
- Secure pipes, tubes and hoses for fluid conductors.
- Installation is easy and requires no more time than a simple pipe clamp installation
- Cushion absorbs the shocks and associated vibrations from fluid surges in tubes, pipes and hoses
- It can handle temperatures from 149°C to -40°C (300°F to -40°F)
- Cushioned Clamp assemblies are available individually bagged

Assembly Cat. No.	Tubing		Assembly Cat. No.	Standard Pipe		Wt./C lb.
	Tube O.D. (in.)	Wt./C lb.		Nominal Pipe Size (in.)	Std. Ctn.	
A716-1/4	1/4	10	P716-1/4	1/4	25	10
A716-3/8	3/8	14	P716-3/8	3/8		14
A716-1/2	1/2	16	P716-1/2	1/2		16
A716-5/8	5/8	16	P716-3/4	3/4		18
A716-3/4	3/4	18	P716-1	1	22	
A716-7/8	7/8	18	P716-1-1/4	1-1/4	27	
A716-1	1	22	P716-1-1/2	1-1/2	36	
A716-1-1/8	1-1/8	24	P716-2	2	43	
A716-1-1/4	1-1/4	27	P716-2-1/2	2-1/2	49	
A716-1-3/8	1-3/8	27	P716-3	3	60	
A716-1-1/2	1-1/2	36	P716-3-1/2	3-1/2	62	
A716-1-5/8	1-5/8	37	P716-4	4	94	
A716-1-3/4	1-3/4	37	-	-	10	
A716-1-7/8	1-7/8	43	-	-		
A716-2	2	43	-	-		
A716-2-1/8	2-1/8	44	-	-		
A716-2-3/8	2-3/8	49	-	-		
A716-2-5/8	2-5/8	53	-	-		
A716-3-1/8	3-1/8	62	-	-		
A716-4-1/8	4-1/8	94	-	-		

U716 Two Hole Cushioned Clamp



- Guides, protects, and uniformly spaces line runs. Low cost, time saving method of attaching tubing and hose to equipment.
- Cushion is built to withstand the effects of most oils, chemical and industrial cleaning compounds, in temperatures from -45°C to 121°C (-50°F to 275°F). Interlock edge insures cushion remains in place.
- Attached with two standard fasteners to any flat surface, this clamp eliminates the use of special channels, providing a savings in both space requirements and cost
- Cushioned clamps reduce vibration, shock, and noise in fluid systems and eliminates electrolysis

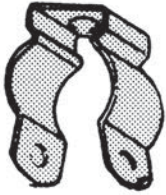
Standard Finish – GoldGalv®

Assembly Cat. No.	Copper and Steel Tubing O.D. (in.)	Copper Water Pipe (nom.) (in.)	Normal Pipe Size (in.)	Std. Ctn.	Wt./C lb.
U716-1/4	1/4	-	-	25	3
U716-3/8	3/8	1/4	-		4
U716-1/2	1/2	3/8	1/4		6
U716-5/8	5/8	1/2	3/8		6
U716-3/4	3/4	5/8	-	7	
U716-7/8	7/8	3/4	1/2	7	
U716-1	1	-	-	8	
U716-1-1/8	1-1/8	1	-	8	
U716-1-1/4	1-1/4	-	-	17	
U716-1-3/8	1-3/8	1-1/4	-	20	
U716-1-1/2	1-1/2	-	-	22	
U716-1-5/8	1-5/8	1-1/2	-	10	23
U716-2	2	-	-	41	
U716-2-1/8	2-1/8	-	-	41	
U716-2-3/8	2-3/8	-	-	44	

Pipe Straps, Pipe Clamps and Hangers

Conduit and Cable Clamps

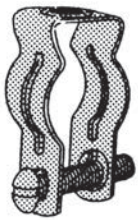
6H Series Conduit and Pipe Hanger



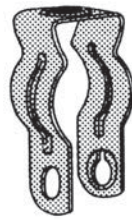
6H Series



6H-B Series
with Bolt and
Hex Nut



6H-TB
Threaded Series



6H-T
Threaded Series

Features

- Accommodates 1/2 in. through 4 in. EMT or rigid conduit
- Can be used for either vertical or horizontal installation
- 6HTB Series have a built-in nut so there are fewer parts to handle or drop
- Installs easily with a screwdriver

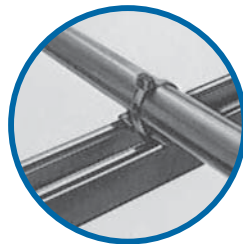
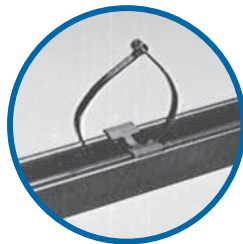
Standard Finish - Electrogalvanized (no suffix)

Cat. No.	Conduit Size		Wt./C. lb.
	Rigid (in.)	EMT (in.)	
6H0	3/8 - 1/2	1/2	5
6H0-B			7
6H0-T			5
6H0-TB			6
6H1	3/4	3/4	6
6H1-B			7
6H1-T			6
6H1-TB			7
6H2	1	1	7
6H2-B			9
6H2-1/2	-	1-1/4	8
6H2-1/2-B			10
6H3-SC	1-1/4	1-1/2	8
6H3-B			10
6H3-TB			10
6H4			17
6H4-B	1-1/2	-	19
6H4-TB			19
6H5	2	2	24
6H5-B			26
6H5-TB			26
6H6	2-1/2	2-1/2	28
6H6-B			30
6H7	3	3	36
6H7-B			38
6H8	3-1/2	3-1/2	39
6H8-B			41
6H9	4	4	44
6H9-B			47

Cable Tie Mounting Bases For Framing Channel



Installation



Cat. No.	Channel Size (in.)	Maximum Tie Width Accom. (in.)	Unit Qty.	Std. Pkg.
TC5363X	1-1/2 & 1-5/8	0.301	50	250

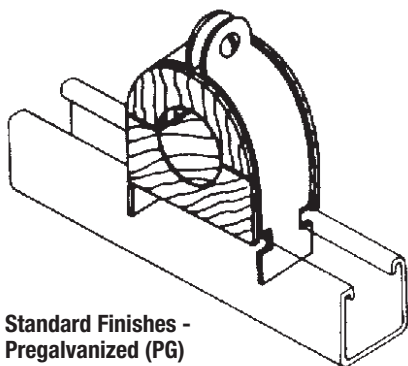
- Installs with a push and twist
- Designed for indoor or outdoor use
- Smooth design protects cable insulation
- Takes range of cable diameters

When fastening wire bundles, cables, or hoses to framing channels, you can cut costs considerably by using this mounting base. It is made of smooth, weather-resistant nylon and designed to protect cable insulation and hoses from the wear or damage that can occur with metal clamps. The mounting base may be used for both indoor or outdoor applications. It installs in the framing channel with a simple push and twist. It requires no screws, nuts or tools. The mounting base fits all 1-1/2 in. and 1-5/8 in. channels regardless of channel depth. Ty-Rap® and Ty-Fast® to be ordered separately.

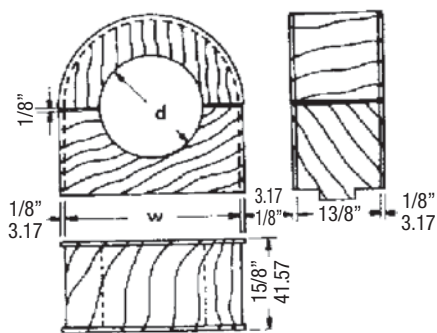
Pipe Straps, Pipe Clamps and Hangers

Conduit and Cable Clamps

W716 Maple Hardwood Clamps



Standard Finishes -
Pregalvanized (PG)
Aluminum (AL)

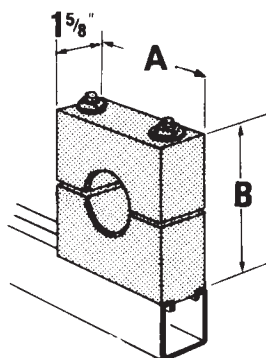


Paraffin impregnated maple.

Cat. No.	Dimensions			
	Depth		Width	
Hardwood Paraffin Imp.	(in.)	(mm)	(in.)	(mm)
W716-3/4PG	3/4	19.0	2-1/8	53.9
W716-1PG	1	25.4	2-1/8	53.9
W716-1-1/4PG	1-1/4	31.7	2-5/8	66.6
W716-1-1/2PG	1-1/2	38.1	2-5/8	66.6
W716-1-3/4PG	1-3/4	44.4	3	76.2
W716-2PG	2	50.8	3-5/8	92.0
W716-2-1/4PG	2-1/4	57.1	3-5/8	92.0
W716-2-1/2PG	2-1/2	63.5	4-5/8	117.7
W716-2-3/4PG	2-3/4	69.8	4-5/8	117.7
W716-3PG	3	76.2	4-5/8	117.7
W716-4PG	4	98.0	5-5/8	143.4

Note: Holding clamp is included with W716 maple hardwood clamps. It is not necessary to order 701 Series separately.

U861, U862 and 863 Maple Cable Clamp



Electrogalvanized hardware included.

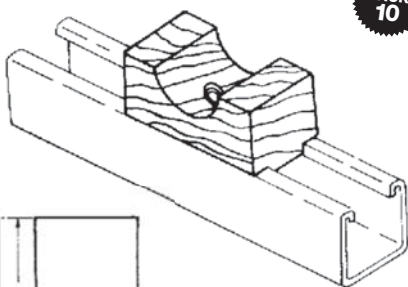
Custom made to your needs

Step 1		Cat. No.	Number of holes
	i.e.	U861	1 hole
		U862	2 holes
		U863	3 holes
Step 2	Specify O.D. of cable		
	i.e. 3/4 in. hole	U861 - 0.75	

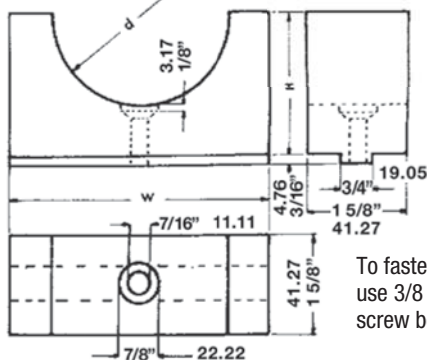
Communiquer avec le bureau régional des ventes.

WS716 Maple Hardwood Saddle

Paraffin impregnated maple.



STD. PACK 10



To fasten saddle, use 3/8 in. x 2 in. screw bolt.

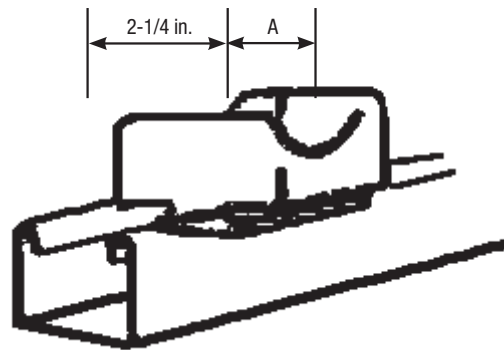
Cat. No.	Dimensions					
	Depth		Width		Height	
Hardwood Paraffin Imp.	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)
WS716-3/4	3/4	19.0	3	76.2	1-3/4	44.4
WS716-1	1	25.4	3	76.2	1-3/4	44.4
WS716-1-1/4	1-1/4	31.7	3-1/2	88.9	2	50.8
WS716-1-1/2	1-1/2	38.1	3-1/2	88.9	2	50.8
WS716-1-3/4	1-3/4	44.4	4	101.6	2-1/4	57.1
WS716-2	2	50.8	4	101.6	2-1/4	57.1
WS716-2-1/4	2-1/4	57.1	4-1/2	114.3	2-1/2	63.5
WS716-2-1/2	2-1/2	63.5	4-1/2	114.3	2-1/2	63.5
WS716-2-3/4	2-3/4	69.8	5	127	2-3/4	69.8
WS716-3	3	76.2	5	127	2-3/4	69.8
WS716-3-1/4	3-1/4	82.5	5-1/2	139.7	2-3/4	76.2
WS716-3-1/2	3-1/2	88.9	5-1/2	139.7	3	76.2
WS716-3-3/4	3-3/4	95.2	6	152.4	3-1/4	82.5
WS716-4	4	101.6	6	152.4	3-1/4	82.5
WS716-4-1/2	4-1/2	114.3	6-1/2	165.1	3-1/2	88.9
WS716-5	5	127	7	177.8	3-3/4	95.2
WS716-5-1/2	5-1/2	139.7	7-1/2	190.5	4	101.6
WS716-6	6	152.4	8	203.2	4-1/4	107.9
WS716-6-1/2	6-1/2	165.1	8-1/2	215.9	4-1/2	114.3
WS716-7	7	177.8	9	228.6	4-3/4	120.6

Pipe Straps, Pipe Clamps and Hangers

Conduit and Cable Clamps

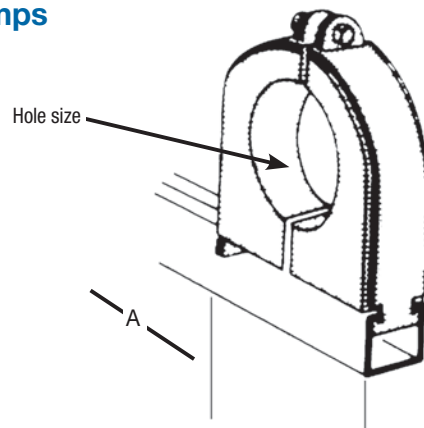
**AB880 3 in.
Porcelain Saddle**

**AB881 4 in.
Porcelain Saddle**



Cat. No.	A (in.)	Max. Cable Diam. (in.)	Wt./C lb.
AB880	3	3	73
AB881	4	4-1/2	104

C755 Porcelain Cable Clamps



Cat. No.	Hole Size (in.)	A (in.)	Wt./C lb.
C755-1A	3/8	1-9/16	50
C755-1B	1/2	1-9/16	50
C755-1C	5/8	1-9/16	50
C755-2	3/4	2-5/32	91
C755-2A	7/8	2-5/32	90
C755-2B	1	2-5/32	85
C755-2C	1-1/8	2-5/32	82
C755-3	1-1/4	2-5/8	114
C755-3A	1-3/8	2-5/8	110
C755-3B	1-1/2	2-5/32	105
C755-3C	1-5/8	2-5/8	102
C755-4	1-3/4	3-3/4	220
C755-4A	1-7/8	3-3/4	214
C755-4B	2	3-3/4	205
C755-4C	2-1/8	3-3/4	200
C755-5	2-1/4	4-1/4	260
C755-5A	2-3/8	4-1/4	250
C755-5B	2-1/2	4-1/4	243

Cat. No.	Hole Size (in.)	A (in.)	Wt./C lb.
C755-5C	2-5/8	4-1/4	240
C755-6	2-3/4	4-3/4	250
C755-6A	2-7/8	4-3/4	240
C755-6B	3	4-3/4	230
C755-6C	3-1/8	4-3/4	220
C755-7	3-1/4	5-13/16	340
C755-7A	3-3/8	5-13/16	330
C755-7B	3-1/2	5-13/16	318
C755-7C	3-5/8	5-13/16	387
C755-8	3-3/4	6-7/8	565
C755-8A	3-7/8	6-7/8	550
C755-8B	4	6-7/8	535
C755-8C	4-1/8	6-7/8	520
C755-8D	4-1/4	6-7/8	490
C755-8E	4-3/8	6-7/8	475
C755-8F	4-1/2	6-7/8	460

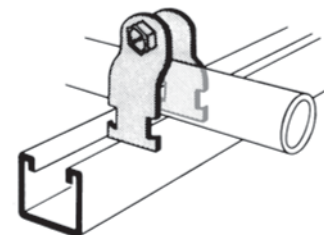
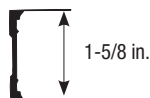
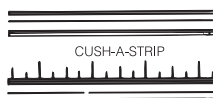
Standard Finish - GoldGalv® with bronze hardware

Also fits 1-1/2 in. wide channel. For minimum order quantities, contact your Regional Sales Office.

Pipe Straps, Pipe Clamps and Hangers

Conduit and Cable Clamps

S716 Cushioned Strip for Isolation and Vibration Applications



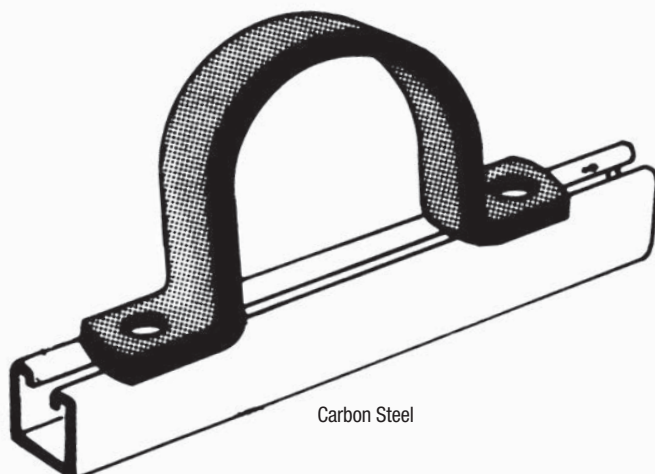
For use with 701 O.D. tubing and pipe clamp. To determine 701 clamp size add 1/4 in. to O.D. tube size to allow for the Cushioned Strip material.

1/4 in. markings for fast measuring and cutting. Measurement chart is printed on back of carton. 20 feet included in each carton.

Prevent metal to metal contact with the Cushioned Strip material. It aids in sound insulation, shock absorption and protects against corrosion, distortion and abrasion. Cushioned Strip material is designed for optimal use between -1°C and 149°C (30°F and 300°F). Cushioned Strip material combined with the Superstrut 701 pipe strap can handle clamping assignments from 1/4 in. to 6 in.

Order 701 clamp separately.

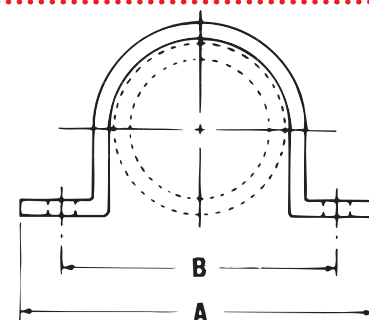
C708U Short Strap for Channel or Wall Mounting



Standard Finish - GoldGalv®

Example: C708U-1/2

No clearance between pipe and channel.



Pipe Size (in.)	A (in.)	B (in.)	Thickness (in.)	Width (in.)	Hole Size (in.)	Design Load lb.	Wt./C lb.
1/2	2-7/8	2	1/8	1-5/8	9/32	650	23
3/4	3-1/16	2-3/16					26
1	3-3/8	2-1/2					31
1-1/4	3-11/16	2-13/16					35
1-1/2	3-15/16	3-1/16					39
2	5-3/4	4-1/8					94
2-1/2	6-3/16	4-9/16	1/4	7/16	1000	114	
3	6-13/16	5-3/16				133	
3-1/2	7-5/16	5-11/16				152	
4	7-13/16	6-3/16				176	
5	8-7/8	7-1/4				198	
6	9-15/16	8-5/16				246	

Pipe Straps, Pipe Clamps and Hangers

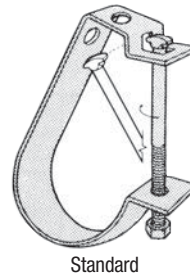
Conduit and Cable Clamps

C711 "J" Pipe Hanger

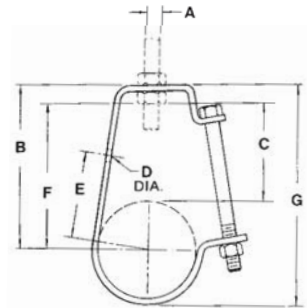
Standard Finishes - GoldGalv®, Electrogalvanized (EG)

Complies with Specification MSS SP69, Type 5.
Hole provided for side mounting to wall as bracket.

Example: C711-1/2



Standard



Pipe Size (in.)	A Rod Size (in.)	B (in.)	C (in.)	Overall Dimension D (in.)	E (in.)	F (in.)	Bolt Size (in.)	G	Thickness	Width (in.)	Max. Rec. Load lb.	Approx. Wt./C lb.
1/2	3/8	2-5/8	1-3/4	7/16	1-1/2	1-15/16	1/4	3-5/32	12 ga	3/4	400	18
3/4	3/8	2-7/8	1-7/8		1-11/16	2-1/8		3-1/2				21
1	3/8	2-15/16	1-15/16		1-13/16	2-5/16		3-11/16				22
1-1/4	3/8	3-1/4	2		2-1/16	2-5/8		4-1/8				25
1-1/2	3/8	3-9/16	2-3/16		2-7/16	2-7/8		4-5/8				27
2	3/8	3-11/16	2-1/8		2-9/16	3-1/16		5				29
2-1/2	1/2	4-7/16	2-7/16		3-3/16	3-5/8		6				64
3	1/2	4-13/16	2-9/16		3-1/2	4-1/16		6-21/32				72
3-1/2	1/2	5-1/8	2-5/8	3-3/4	4-3/8	7-5/16	84					
4	5/8	6-1/8	3-3/16	9/16	4-5/8	5-3/16	3/8	3/16	1-1/4	550	138	
5	5/8	6-3/4	3-1/4		5-1/16	5-3/5	9-23/32				162	
6*	3/4	7-3/4	3-9/16		5-13/16	6-5/8	11-1/4				249	
8*	7/8	9-3/16	3-15/16		6-15/16	8	13-11/16				760	291

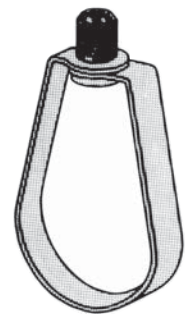
*Hangers 6 in. and over have hole instead of slot.

C727 Adjustable Ring

Standard Finish - Pregalvanized (no suffix)

Carbon steel. For suspension of non-insulated pipe lines.
Complies with Specification MSS SP69, Type 10.

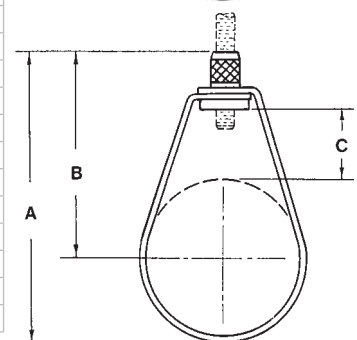
Example: C727-1/2



Tube Size (in.)	Rod Size (in.)	A (in.)	B (in.)	C (in.)	Thickness	Width (in.)	Approx Max. Rec. Load	Wt./C lb.	
1/2	3/8	3-1/8	2-5/8	1-3/8	16 ga	1	400	9	
3/4		3-1/8	2-1/2	1-1/8				9	
1		3-3/8	2-5/8	1-1/8				9	
1-1/4		3-3/4	2-7/8	1-1/8				10	
1-1/2		3-7/8	2-7/8	1				11	
2		4-1/4	3	1				12	
2-1/2	1/2*	5-3/4	4-1/4	1-5/8	14 ga	1-3/16	600	28	
3		6	4-1/8	1-1/4				30	
3-1/2		7-3/8	5-1/4	2-1/8				34	
4	5/8*	7-3/8	5	2-5/8		1-1/4		1000	37
5		9	6-1/8	2-1/4					1250
6		3/4**	9-3/8	6-1/2					1-7/8

*3/8 in. nut is used when NFPA rod sizing is requested.

**1/2 in. nut is used when NFPA rod sizing is requested.



Pipe Straps, Pipe Clamps and Hangers

Pipe Hangers

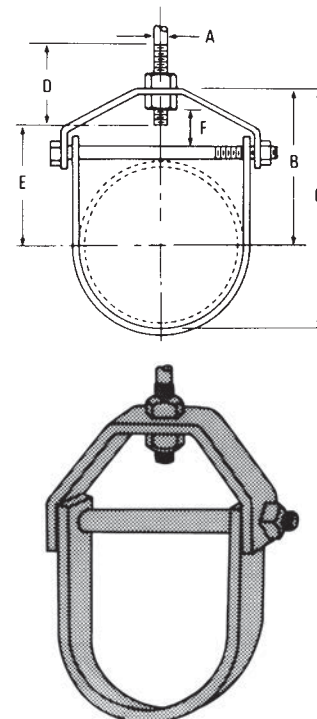
C710 Adjustable Clevis Hanger

Standard Finishes - GoldGalv®, ElectroGalvanized (EG)

Complies with Specification MSS SP69, Type 1.

Example: C710-1/2EG

Pipe Size (in.)	Size of Steel		A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)	Max. Rec. Load, lb.	Wt./C lb.
	Upper	Lower								
1/2	1/8x1	1/8x1	3/8	1-11/16	2-1/8	2-1/2	7/8	7/16	610	30
3/4				1-7/8	2-7/16		1	1/2		32
1				2-1/8	2-13/16		1-1/4	5/8		36
1-1/4				2-9/16	3-7/16		1-3/4	7/8		42
1-1/2				3	4		2-1/8	1-1/16		55
2				3-11/16	4-7/8		2-15/16	1-5/8		60
2-1/2	3/16x1-1/4	3/16x1-1/4	1/2	4-11/16	6-1/8	3	3-13/16	2	1130	115
3				4-3/4	6-9/16		3-7/8	1-3/4		132
3-1/2				4-15/16	6-15/16		4-1/16	1-3/4		156
4				5-9/16	7-13/16		4-1/2	1-15/16		190
5	1/4x1-1/4	3/16x1-1/2	5/8	6-3/16	9	3-1/2	5-1/8	1-3/4	1430	240
6	1/4x1-1/2			6-13/16	10-1/8		4	5-5/8		1-7/8
8	1/4x1-3/4	3/16x1-3/4	7/8	8-5/16	12-5/8	4-1/4	7	2-1/8	1940	500



CL710 Light Duty Adjustable Clevis Hanger

Standard Finishes - GoldGalv®, Bare (B), ElectroGalvanized (EG), Fiberglass (FG).

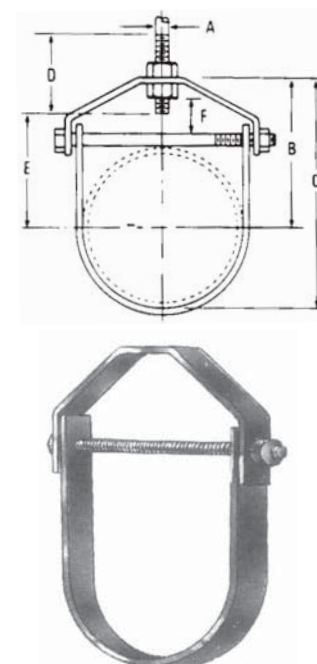
Carbon Steel

Used on non-insulated, stationary pipelines.

A lock nut above the clevis yoke is required for full rated load.

Example: CL710-3/8B

Pipe Size (in.)	Thickness of Steel		A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)	Max. Rec. Load, lb.	Wt./C lb.		
	Upper	Lower										
3/8	16 ga x 7/8	16 ga x 7/8	3/8	1-7/8	2-3/16	2-1/2	1-1/4	9/16	150	12		
1/2				1-3/4	2-3/16	2-1/2	1-1/8	9/16		13		
3/4				1-7/8	2-1/4	2-1/2	1-1/4	1/2		15		
1				2-3/16	2-3/4	2-1/2	1-1/2	3/4		18		
1-1/4				2-5/8	3-3/8	2-1/2	1-3/4	1		20		
1-1/2				13 ga x 7/8	13 ga x 7/8	1/2	3	3-7/8		2-1/2	2-1/4	1-3/16
2	3-9/16	4-3/4	2-1/2				2-13/16	1-5/8	38			
2-1/2	4	5-1/2	3				3-1/4	1-3/8	80			
3	1/8 x 1-1/4	1/8 x 1-1/4	1/2	4-9/16	6-1/2	3	3-9/16	1-1/2	350	89		
3-1/2				5	7	3	4-1/8	1-3/4		106		
4	3/16 x 1-1/4	3/16x1-1/2	3/4	5-1/4	7-1/2	3-1/2	4-1/4	1-7/8	1940	146		
6	1/4x1-1/2			6-13/16	10-1/8	4	5-5/8	1-7/8		320		
8	1/4x1-3/4			3/16x1-3/4	7/8	8-5/16	12-5/8	4-1/4		7	2-1/8	500



Pipe Straps, Pipe Clamps and Hangers

Pipe Hangers

M718 Split Pipe Ring

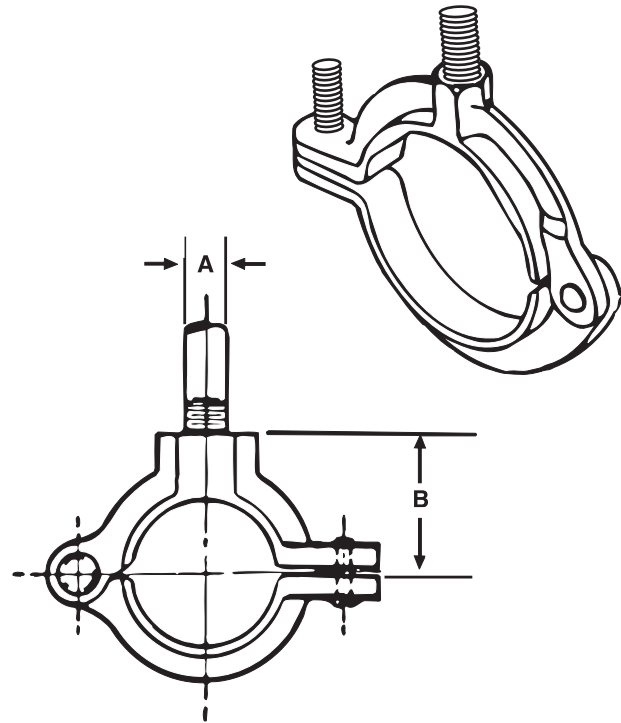
Standard Finishes - Bare (B) or Electrogalvanized (EG)

Malleable iron.

For suspension of non-insulated, stationary pipelines.

Example: M718-3/8B

Pipe Size (in.)	A (in.)	B (in.)	Max. Rec. Load, lb.	Wt./C Approx.
3/8	3/8	13/16	180	10
1/2		7/8		13
3/4		1		14
1		1-1/8		16
1-1/4		1-5/16		22
1-1/2		1-7/16		24
2		1-11/16		31
2-1/2	1/2	2-1/8	300	60
3		2-7/16		74
4		2-15/16		116



C725 Medium Pipe Clamp

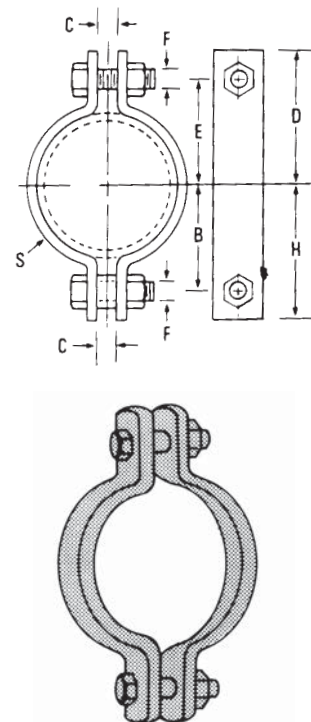
Standard Finishes - GoldGalv®, Bare (B), Electrogalvanized (EG)

Carbon steel. For suspension of pipelines where little or no insulation is required.

Complies with Specification MSS SP69, Type 23.

Example: C725-1/2B

Pipe Size (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)	H (in.)	S (in.)	Max. Rec. Load, lb.	Wt./C Approx.
1/2	1	7/16	1-5/8	1	5/16	1-1/2	1/8 x 1	500	29
3/4	1-1/8		1-3/4	1-1/4		1-3/4			32
1	1-1/4		1-13/16	1-1/4		1-13/16			33
1-1/4	1-7/16	1/2	2	1-7/16	1/2	2	1/4 x 1	715	38
1-1/2	1-5/8		2-1/16	1-1/2		2-1/4			39
2	2-1/8	9/16	3-1/8	2-1/4	1/2	3	1/4 x 1	1040	117
2-1/2	2-5/16		3-5/16	2-1/2		3-1/4			128
3	2-3/4		3-3/4	2-3/4		3-5/8			140
3-1/2	3-7/8	5/8	3-3/4	3	5/8	3-7/8	1/4 x 1-1/4	1615	145
4	3-5/16	3/4	4-1/4	3-5/16		5/8			4-1/4
6	4-7/8	7/8	5-7/8	5	3/4	5-3/4	3/8 x 1-1/2	2490	542
8	6	1	7	6-1/8	3/4	6-7/8			651
10	7-5/16		8-9/16	7-7/16	7/8	8-7/16	1360		
12	8-1/4		9-9/16	8-7/16	7/8	9-3/8	1605		



Based on the allowable stresses shown in ANSI Code for pressure piping. For sizes 14 to 24, contact your Regional Sales Office.

Pipe Straps, Pipe Clamps and Hangers

Pipe Hangers

C720 Riser Clamp

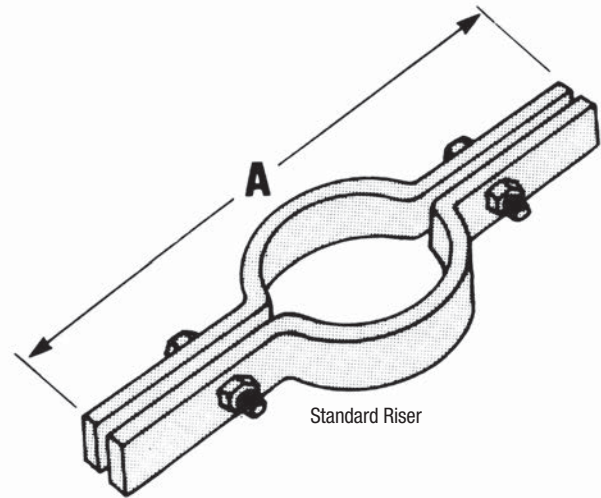
Standard Finishes - GoldGalv®, Bare (B)

Available in sizes 1/2 in. through 10 in.

Complies with Specification MSS SP69, Type 8.

Example: C720-1-1/2B

Pipe Size (in.)	A (in.)	Thickness (in.)	Width (in.)	Bolt (in.)	Max. Rec. Load, lb.	Wt./Ea. Approx.	
1/2	9-1/8	3/16	1	3/8 x 1-1/2	220	1.01	
3/4	9-1/4					1.06	
1	9-5/8					1.07	
1-1/4	9-7/8					1.12	
1-1/2	10	1/4		1-1/2	1/2 x 1-1/2	250	1.20
2	10-1/2						1.25
2-1/2	11-1/16						1.67
3	11-13/16						1.81
3-1/2	13	3/8	1-1/2	1/2 x 1-3/4	600	2.12	
4	13-1/2					2.22	
5	14					3.44	
6	15-3/16					3.65	
8	19			5/8 x 2-1/2	2500	7.24	



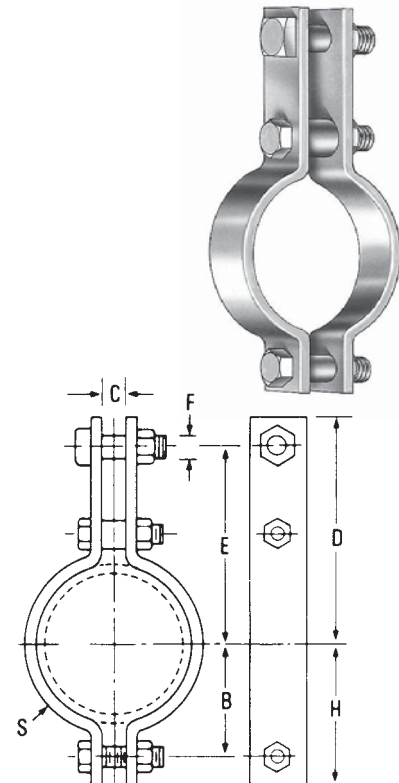
C726 Double Bolt Pipe Clamp

Standard Finish - Bare (B)

Carbon Steel. For the suspension of insulated pipelines. Normally used with weldless eye nut.

Example: C726-1/2B

Pipe Size (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)	H (in.)	S (in.)	Max. Rec. Load, lb.	Wt./C Approx.
3/4	1-1/16	5/8	3-3/16	2-1/2	3/8	1-11/16	3/16 x 1	950	66
1	1-1/2		3-3/4	2-1/2		2-1/16			69
1-1/4	1-1/2	3/4	3-11/16	2-7/8	5/8	2-1/4	1/4 x 1-1/4	1545	75
1-1/2	1-13/16		4-7/8	3-3/4		2-13/16			181
2	2-1/4	1-1/16	5-11/16	4-11/16	3/4	3-3/16	3/8 x 2	2500	200
2-1/2	2-5/8		6-1/2	5-3/8		3-1/2			232
3	2-3/4		6-7/8	6		3-3/4			258
3-1/2	3		7-1/16	6-3/16		4			264
4	3-3/8	1-7/16	7-5/8	6-1/2	1	4-1/2	3/8 x 2-1/2	2865	750
5	3-15/16		8-1/8	7		5			813
6	4-3/4		9-15/16	8-9/16		6-1/8			1311
8	5-3/4		10-15/16	9-9/16		7-1/8			1467

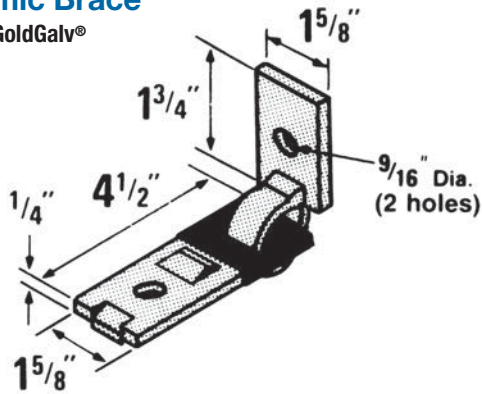


Pipe Straps, Pipe Clamps and Hangers

Seismic Bracing

C749N Seismic Brace

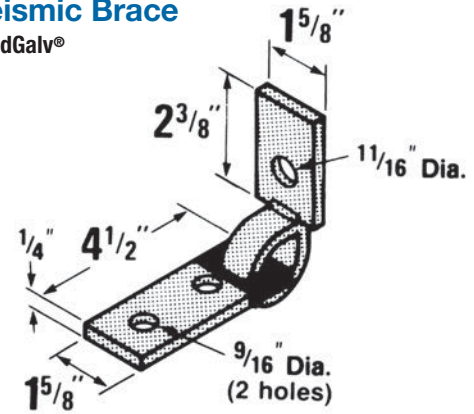
Standard Finish - GoldGalv®



1650 lb. load
safety factor 3
Wt./C 61 lb.

C749N-5/8 Seismic Brace

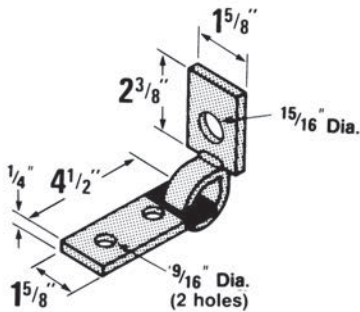
Standard Finish - GoldGalv®



1650 lb. load
safety factor 3
Wt./C 56 lb.

C749N-7/8 Seismic Brace

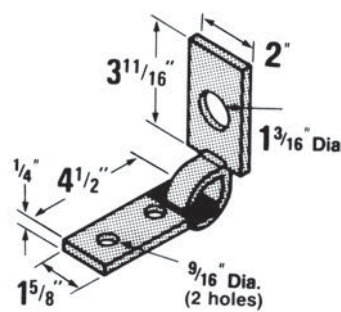
Standard Finish - GoldGalv®



1650 lb. load
safety factor 3
Wt./C 74 lb.

C749N-1 1/8 Seismic Brace

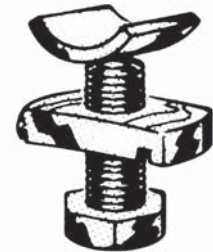
Standard Finish - GoldGalv®



1650 lb. load
safety factor 3
Wt./C 72 lb.

ES142

Standard Finish - GoldGalv®



Cat. No.	Bolt Dia.	Wt./C lb.
ES-142-1/2 x 1-1/2	1/2	21

Seismic bracing rod
stiffener connector.
Wt./C 21 lb.

All braces have plastisol coating on the flat member.
Plastisol insulates against vibration noise transmission and eliminates rattle at the connection points.

Hanger Accessories

Other products available. Contact your Regional Sales Office.

C704A

Offset J-Hook



Sizes 1/2 in. thru 3 in. IPS

M732H

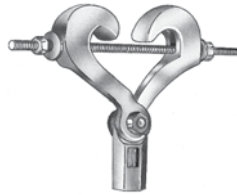
I-Beam w/Eye Nut



MSS SP69 Type 28

M732/M732 Ext

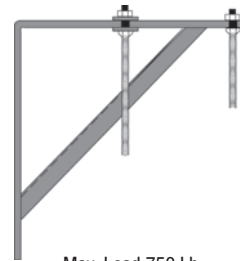
I-Beam Clamp w/Swing Nut



Sizes 3/8 in. thru 7/8 in. Rod
MSS SP69 Type 30

C736

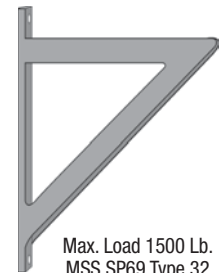
Light Welded Steel Bracket



Max. Load 750 Lb.
MSS SP69 Type 31

C739M

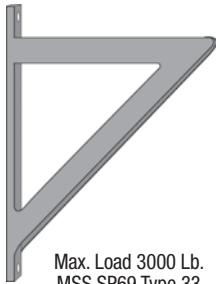
Medium Welded Steel Bracket



Max. Load 1500 Lb.
MSS SP69 Type 32

C739H

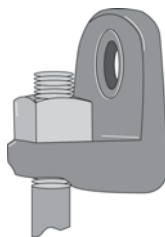
Heavy Welded Steel Bracket



Max. Load 3000 Lb.
MSS SP69 Type 33

M750

Side Beam Bracket



Sizes 3/8 in. thru 7/8 in. Rod
MSS SP69 Type 34

C785A

Pipe Stanchion Saddle



Sizes 4 in. thru 36 in. IPS
MSS SP69 Type 37

C786

Adj. Pipe Saddle Support



Sizes 2-1/2 in. thru 36 in. IPS
MSS SP69 Type 38

C789

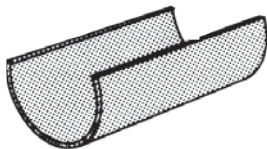
Steel Pipe Covering Protection Saddle



MSS SP69 Type 39

C790

Insulation Protection Shield for PVC coated pipe lines and insulated copper tubing



Sizes 3/4 in. thru 12 in. IPS
MSS SP69 Type 40

RC729A

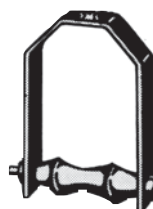
Single Pipe Roll



Sizes 1 in. thru 24 in. IPS
MSS SP69 Type 41

C729

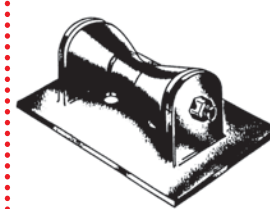
Adj. Roller Hanger



Sizes 1 in. thru 20 in. IPS
MSS SP69 Type 43

S730C

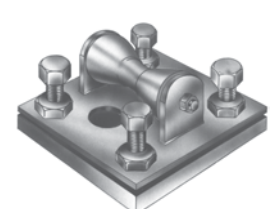
Pipe Roll + Base



MSS SP69 Type 44

S730D

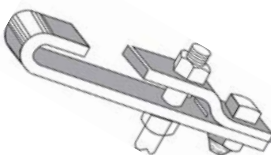
Adj. Pipe Roll & Base



MSS SP69 Type 46

C769

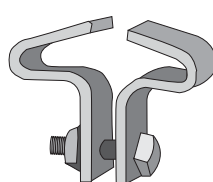
Top I-Beam Clamp



Sizes 3/4 in. thru 7/8 in. Rod
MSS SP69 Type 25

C755 T / C757 T

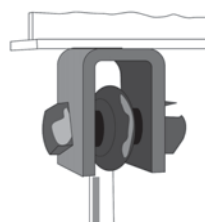
Center I-Beam Clamp



MSS SP69 Type 21

C780

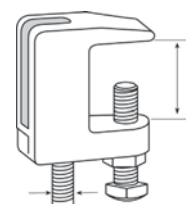
Weld attachment as shown or inverted less bolt



MSS SP69 Type 22

M778

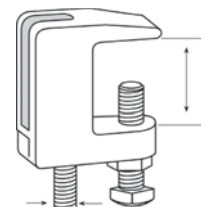
Top Beam C-Clamp



Sizes 3/8 in. thru 3/4 in. Rod
MSS SP69 Type 19

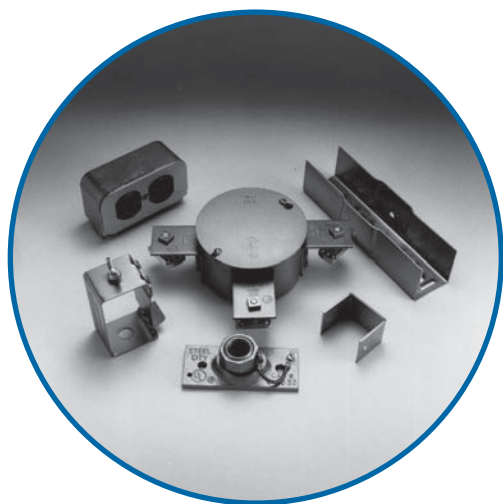
M777

Junior Top Beam C-Clamp



Sizes 3/8 in. thru 1/2 in. Rod
MSS SP69 Type 18

Surface Raceway and Lighting Systems



Material

Superstrut® electrical raceway, fixture hanging channel, closure strip and accessories are manufactured from hot rolled strip steel. Standard finish for the accessories is GoldGalv®.

Design Data

Deflections at various hanger rod spacings for raceway channels based on 40 to 45 lb. per fixture.

Deflection			
Channel	at 10 ft. (in.)	at 12 ft. (in.)	at 14 ft. (in.)
A1200	1/4	1/2	3/4
C1200	3/8	3/4	*
A1400			*

Deflection			
Channel	at 6 ft. (in.)	at 7 ft. (in.)	at 9 ft. (in.)
B1200	3/8	9/16	5/8
B1400	1	1/2	*

*Not recommended for this spacing.

Electrical Raceway

Superstrut channel together with snap-in closure strip is listed by Underwriters Laboratories as a surface metal raceway. Other accessories listed by Underwriters Laboratories are identified on the drawings.



Wire Size AWG	Maximum Number of Wires							
	Raceway							
	With or Without KO A1200 A1400		B1200 B1400		C1200		E1200 H1200	
	A	B	A	B	A	B	A	B
14	6	10	4	6	5	10	6	10
12	6	10	3	6	4	10	6	10
10	5	8			4	6	5	8
8	4	6			3	4	4	6
6	2	3			2	2	2	3

COLUMN A: Suitable for number of wires indicated when used as a raceway. Also suitable for number of wires indicated when installed to support and supply electrical fixtures when raceway wiring is suitable for not less than 75°C.

By providing clearance between fixture and raceway of not less than 1/2 in., where suitable for 60°C may be used.

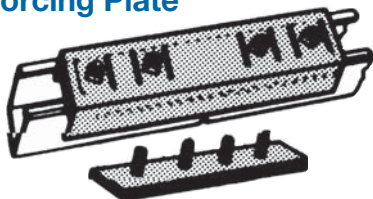
COLUMN B: Suitable for number of wires indicated when used as a raceway. Also suitable for number of wires indicated when installed to support electrical fixtures when clearance of not less than 1/8 in. is provided between raceway and fixture and when wiring is suitable for 75°C.

Applicable Channels	
A1200	B1200
A1200-KO	B1400
A1400	C1200
A1400-KO	E1200
	H1200

Surface Raceway and Lighting Systems

Fixture Fittings

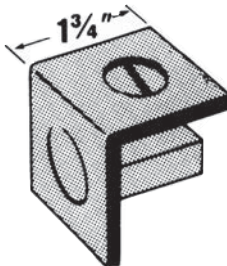
802 Raceway Joiner With Reinforcing Plate



Furnished complete with nuts.

Cat. No.	For Channel	Wt./C lb.
A802EG	A Series	158
B802EG	B Series	112
E802EG	E Series	170
H802	H Series	182

805 End Cap With Knockout



KO for 1/2 in. conduit. Furnished complete with 1/4 in. x 5/8 in. flat head machine screw and AB100-1/4 nut.

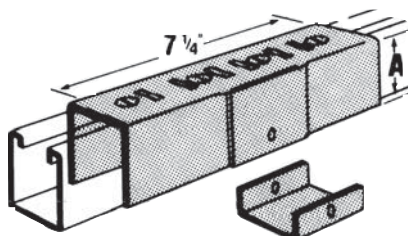
Cat. No.	For Channel	Wt./C lb.
A805EG	A Series	21
H805EG	H Series	31

A853L Channel Hanger - Long



Long type for all Series channel. Wt./C 48 lb.

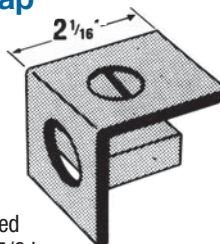
822 Raceway Joiner & Seal



Furnished complete with 1/4 in. x 5/8 in. machine screws and AB100-1/4 nuts.

Cat. No.	A (in.)	For Channel	Wt./C lb.
A822	1-11/16	A Series	75
B822	7/8	B Series	56

809 Tapped End Cap



12 ga. steel. For 3/4 in. or 1 in. conduit. Furnished complete with 1/4 in. x 5/8 in. flat head machine screw and AB100-1/4 nut.

Rod Size	For Channel	Wt./C lb.
A809-3/4EG	A Series	2
E809-3/4EG	E Series	26

A854 Channel Hanger

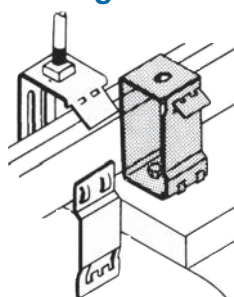
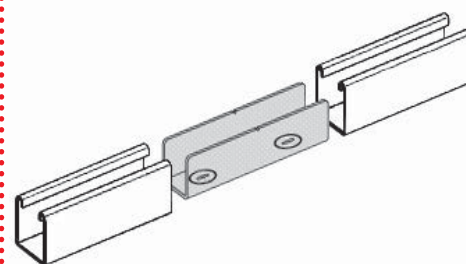


Illustration showing A854 with nut and bolt furnished to attach to fluorescent fixture. Use with A, B, C or D Series channel. Wt./C 34 lb.

A213 Inside Joiner



For A1200 Series channel. Only available in GoldGalv® finish.

A853 Channel Hanger



Use hanger rod 3/8 in. or 1/2 in. Use with A, AR, B, BR or C Series single channel. Wt./C 25 lb.

A854L Channel Hanger - Long

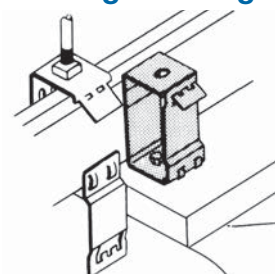
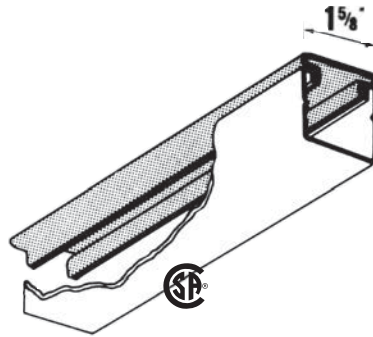


Illustration showing A854L with nut and bolt furnished to attach to fluorescent fixture. Use with E and H Series channel as well as A, B, C or D Series channel. Wt./C 51 lb.

Surface Raceway and Lighting Systems

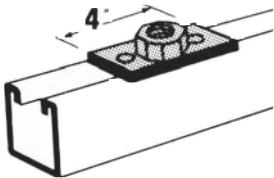
Fixture Fittings

AB844PGC
Steel Closure Strip
AB844PC
Plastic Closure Strip Colour: Gold
AB844PCGY
Plastic Closure Strip Colour: Grey



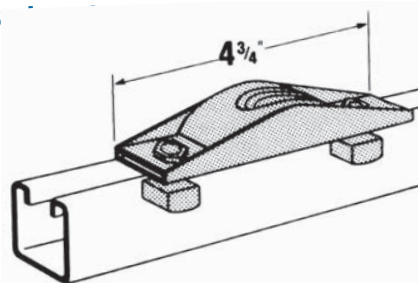
- When used as a raceway, channel is normally installed with the slot up. After wiring has been completed the closure strip is installed.
- For all channels.
- Standard length: 10 ft.

AB803
Cast Conduit Connector



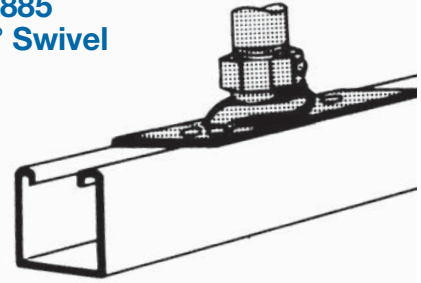
To connect 1/2 in. or 3/4 in. conduit to raceway channel. Furnished complete with stud nuts and hex nuts. Part has removable bushing to increase size from 1/2 in. to 3/4 in.
Wt./C 60 lb.

AB815
S



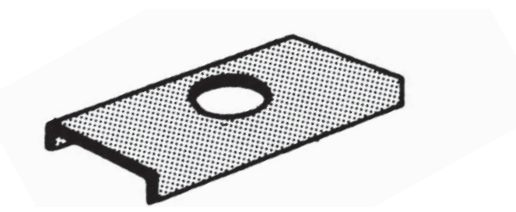
Nuts and bolts to clamp to channel is included. For 1/2 in. or 3/4 in. conduit.
Wt./C 95 lb.

AB885
15° Swivel



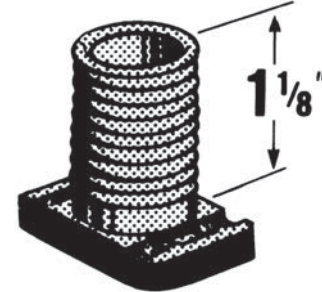
Nuts and bolts to clamp to channel included. For 1/2 in. or 3/4 in. conduit.
Wt./C 25 lb.

AB867
Spacer



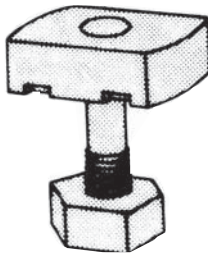
For use with AB866 wiring stud nuts.
Wt./C 24 lb.

AB866
Wiring Stud Nut



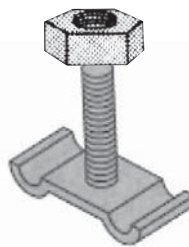
1/2 in. Pipe thread
Wt./C 21 lb.

811
Stud Nut



Cat. No.	For Channel	Wt./C lb.
811-1STR	1/4 x 1	8
811-2STR	1/4 x 1-1/4	9

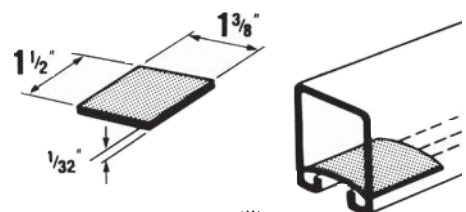
812
Stud Nut



For attaching fixture to slot down channel or to slot up knockouts. Specify length. Hex nut included.

Cat. No.	For Channel	Wt./C lb.
812-1EG	1/4 x 1	6

AB868
Fiber Retainer for Cables Until Closure Strip is Installed

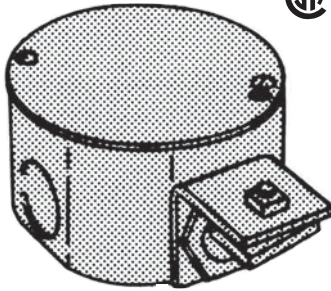


Wt./C 3 lb.

Surface Raceway and Lighting Systems

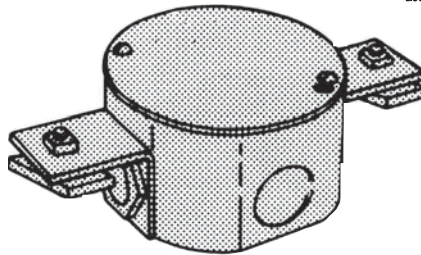
Kindorf® Channel Boxes and Receptacles

G2000



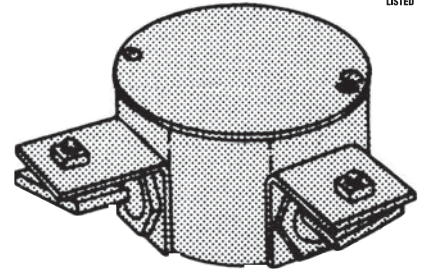
Finish - GoldGalv® Wt./C 110 lb.

G2001



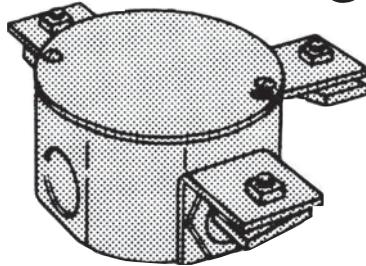
Finish - GoldGalv® Wt./C 120 lb.

G2002



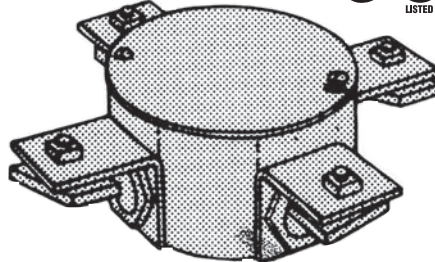
Finish - GoldGalv® Wt./C 120 lb.

G2003



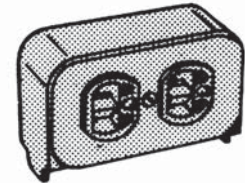
Finish - GoldGalv® Wt./C 130 lb.

G2004



Finish - GoldGalv® Wt./C 140 lb.

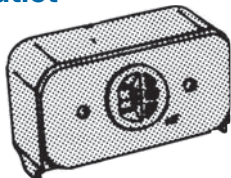
G1038 Duplex Outlet



Complete unit including housing, standard DUPLEX 3-wire, 15 Amp., 125 volt, ground receptacle and cover plate.

Finish - GoldGalv® Wt./C 55 lb.

G1038A Single Outlet



Complete unit including housing, standard SINGLE 3-wire, 15 Amp., 125 volt, ground receptacle and cover plate.

Finish - GoldGalv® Wt./C 50 lb.

G1038D Raceway Outlet



Complete unit including housing, duplex, 3-wire, 15 amp., 277 volt-twistlock receptacle and cover plate.

Finish - GoldGalv® Wt./C 60 lb.

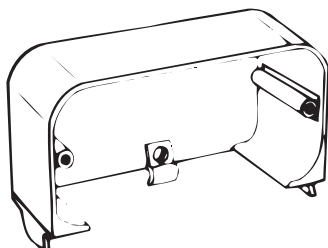
G1038E Raceway Outlet



Complete unit including housing, single, 3-wire, 15 amp., 277 volt-twistlock receptacle and cover plate.

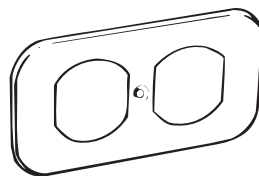
Finish - GoldGalv® Wt./C 50 lb.

G1038B Housing Only



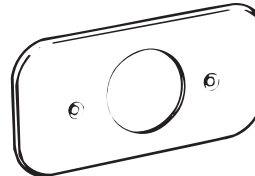
Finish - GoldGalv® Wt./C 25 lb.

G1038C Duplex Cover Plate



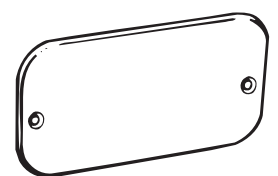
Finish - GoldGalv® Wt./C 12 lb.

G1038CA Single Cover Plate



Size of opening: 1.391 diameter
Finish - GoldGalv® Wt./C 14 lb.

G1038CX Blank Cover Plate

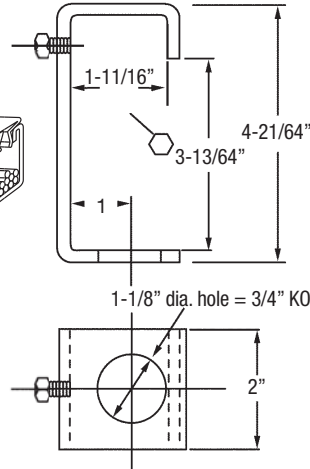
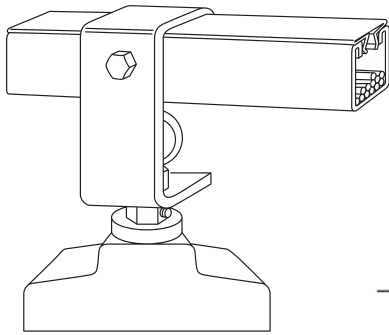


Finish - GoldGalv® Wt./C 15 lb.

Surface Raceway and Lighting Systems

Kindorf® Fixture Accessories

G1017 Mercury Vapor Hanger

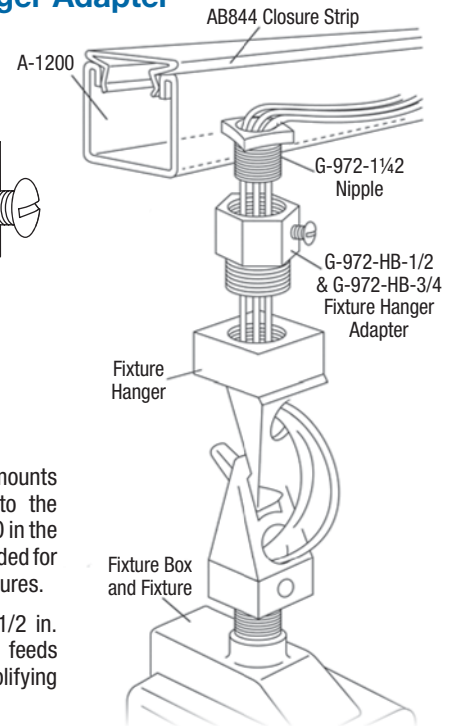
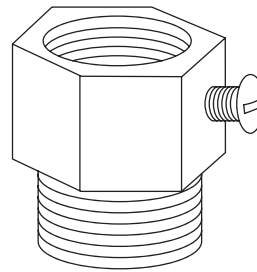


Finish - GoldGalv®

To support high or low bay mercury vapor or heavy incandescent fixtures from raceway channels. Permits plug-in connections with G-1038 raceway outlets

Used with Channel	Depth (in.)	Wt./C lb.
A-1200	4-1/4	76

G972HB1/2 Steel Fixture Hanger Adapter



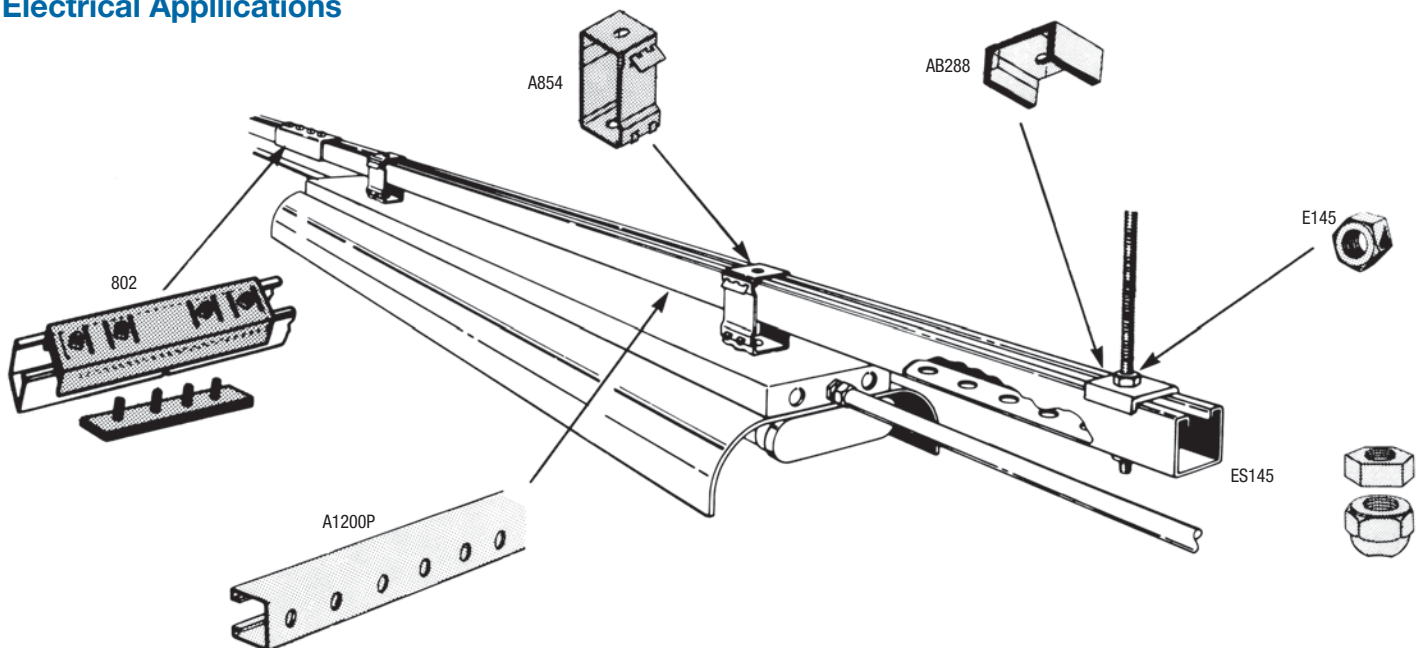
Finish - GoldGalv®

The hanger adapter securely mounts the fixture hanger or box to the channel through the 1/2 in. KO in the base. No special tools are needed for installation of fittings and fixtures.

Superstrut® channels, with 1/2 in. KO's every 6 in., hangs and feeds the fixtures thereby simplifying installation.

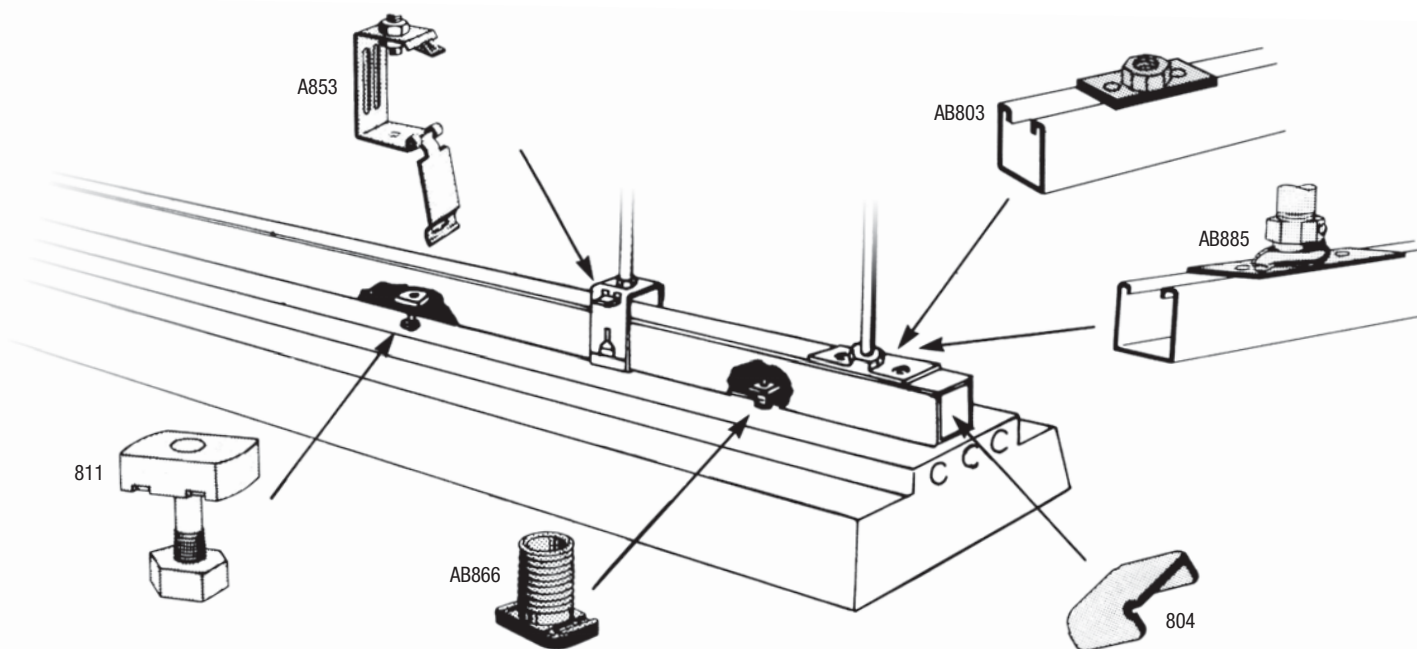
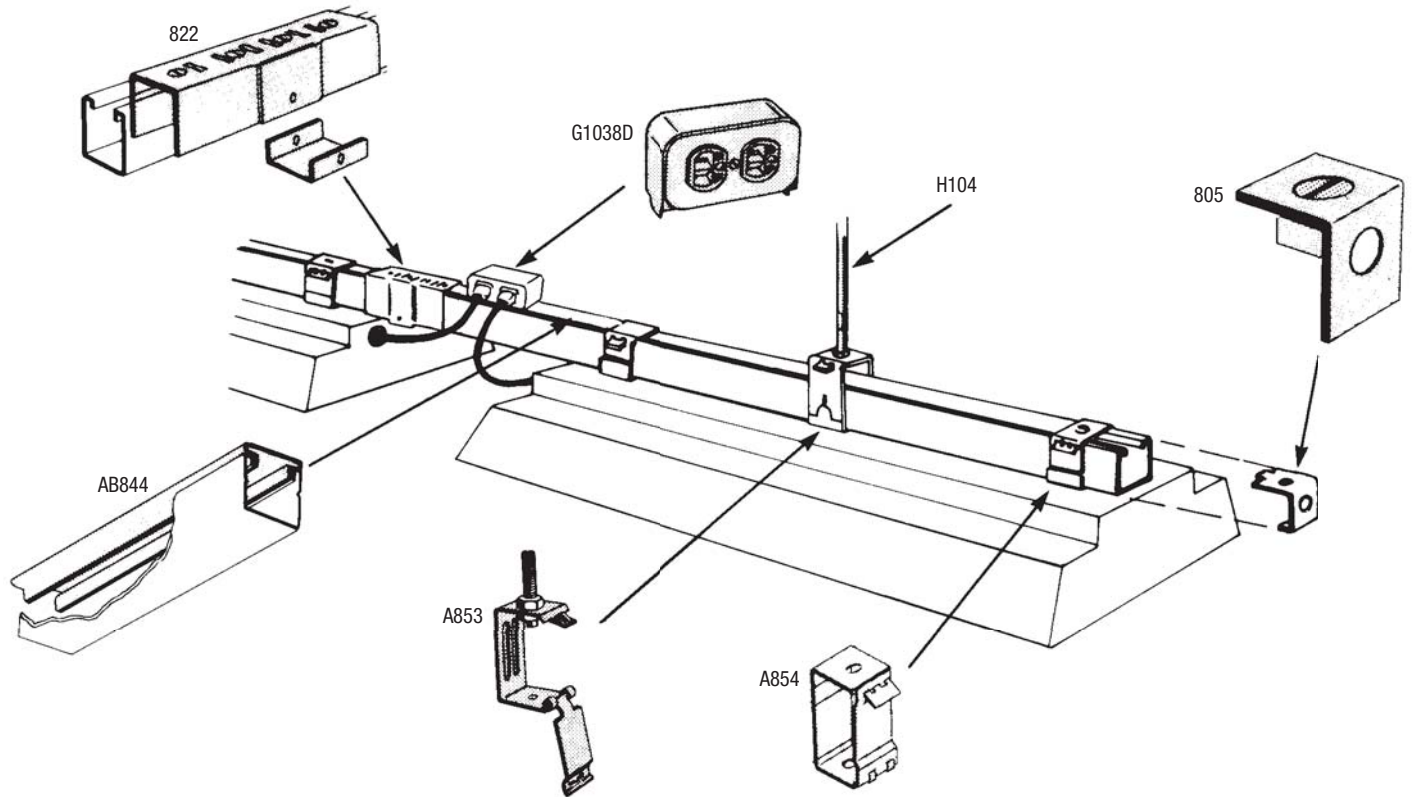
Wt./C 17 lb.

Electrical Applications



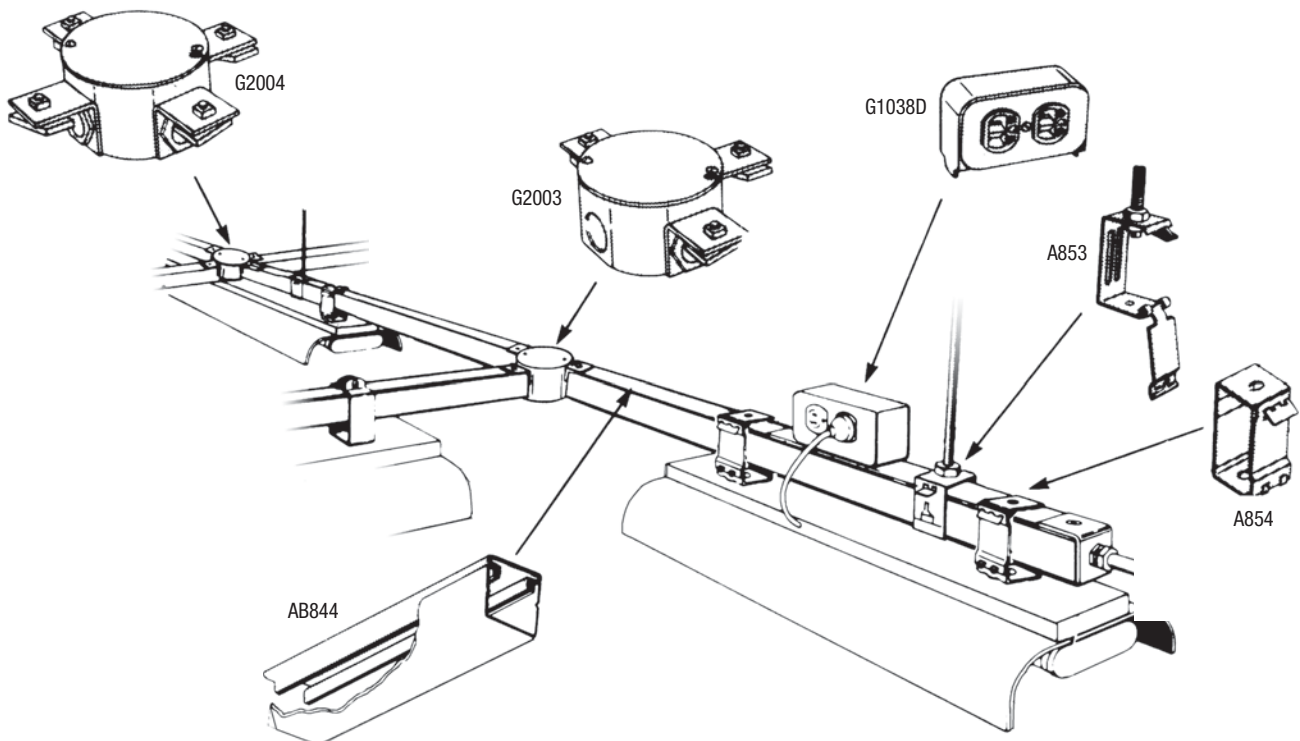
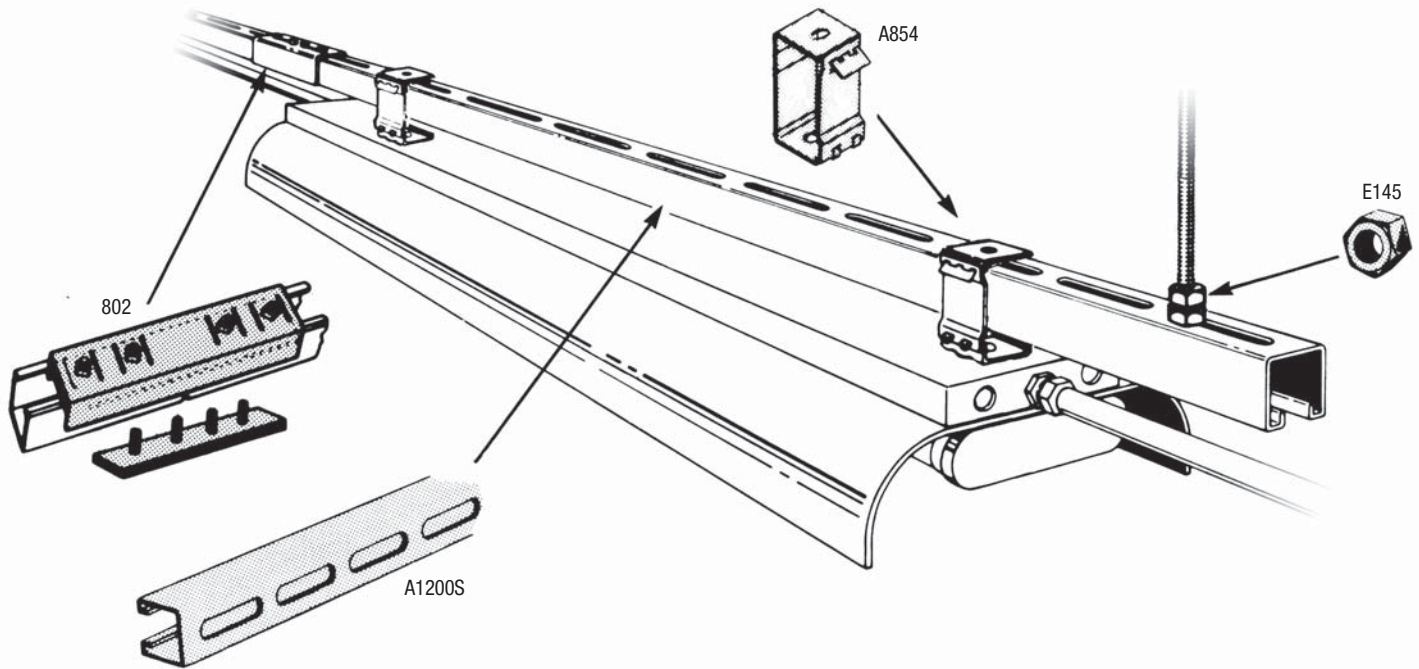
Surface Raceway and Lighting Systems

Electrical Applications



Surface Raceway and Lighting Systems

Electrical Applications



Right Angle Slotted Metal Framing



Create the support framing you need

Right Angle Metal Framing is manufactured from commercial quality steel in three different sizes. The small sizes are 14 ga. steel, the larger is 12 ga. steel. With this offering, an endless variety of metal framing requirements can be met, from lightweight supporting needs to larger shelving for inventory storage.

One of the legs on all sizes is 1-5/8 in. wide, while the other is either 1-5/8 in., 2-3/8 in. or 3-1/8 in. long. Depending on the frame requirements, a single size can be utilized throughout, or the sizes can be interchanged to get the most efficient usage from the material.

This section will serve as a guide to plan and build your structure.

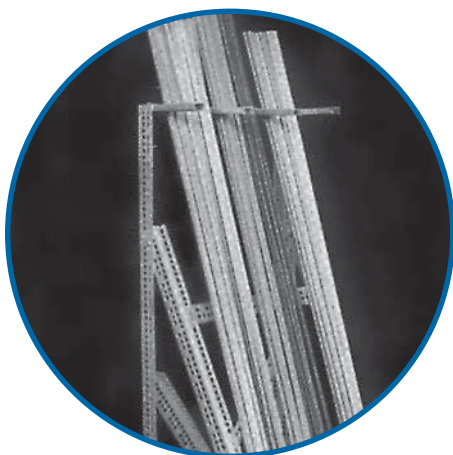
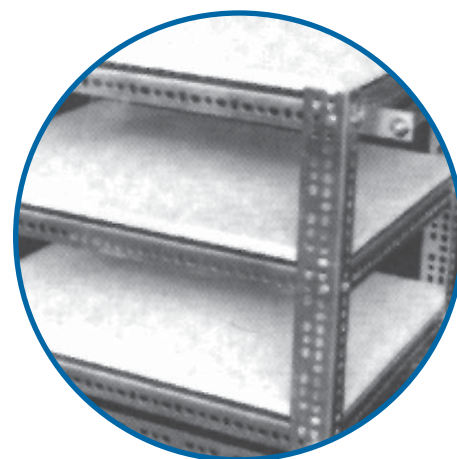
Installation time is reduced - inventory space is minimal

Scribe marks are placed every 3/4 in. which saves planning, layout and cutting time and ensures accuracy. The exclusive slot and hole pattern, repeated every 3 in., is scientifically designed for ease of assembly and rigidity. No welding is necessary, no holes to drill. A 9/16 in. wrench is the only tool required for assembly. The proper nuts and bolts are included with the material to ensure fast and easy erection.

Right angle metal framing is packaged in 10' and 12' lengths to minimize cut offs and ensure maximum use of material.

120 feet, 10, 12 foot lengths of right angle metal framing take up the same amount of space as one 2x4. A standard package includes 5 pieces to a bundle, significantly reducing handling and storage space.

The importance of cutting right angle easily, quickly and accurately is the key to time saving assembly. The portable cutter provides these advantages and makes layout and erection of any structure a "light-work" job.



Finish is designed for long lasting durability

The standard GoldGalv® hardware finish is applied to all Right Angle Metal Framing after rolling and punching of the holes. This provides you with a number of benefits. First, raw ends resulting from cuts will be protected by the sacrificial quality of zinc. Second, the edges of all holes are protected against formation of rust, to provide a call back free installation. Third, the electrogalvanizing provides an excellent bonding surface for paint if desired for aesthetic reasons.

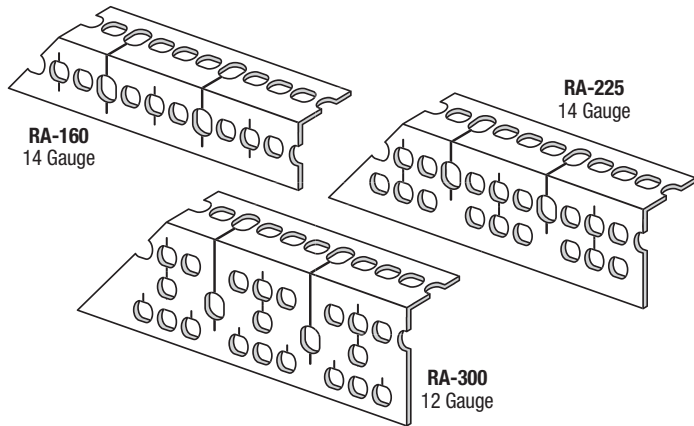
Note: Product is also available in pregalvanized (PG) sections.

FLEXIBILITY

SIMPLICITY

ECONOMY

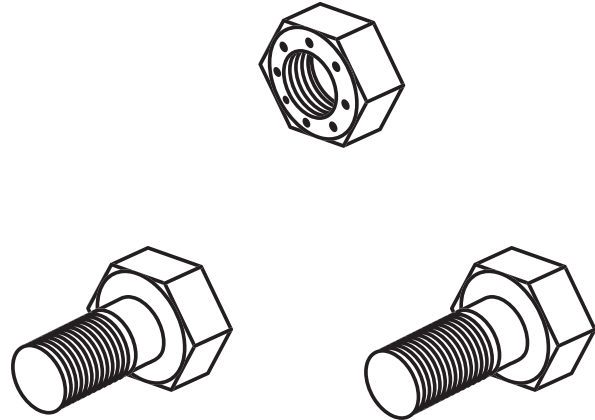
Right Angle Slotted Metal Framing



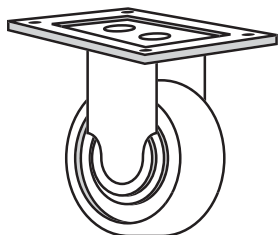
Cat. No.	Length ft.	No. of ft./per Pkg.
RA-160-10	10	50
RA-160-12	12	60
RA-225-10	10	50
RA-225-12	12	60
RA-300-10	10	50
RA-300-12	12	60

Each package includes 36 nuts and bolts.

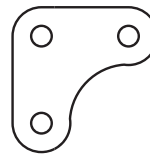
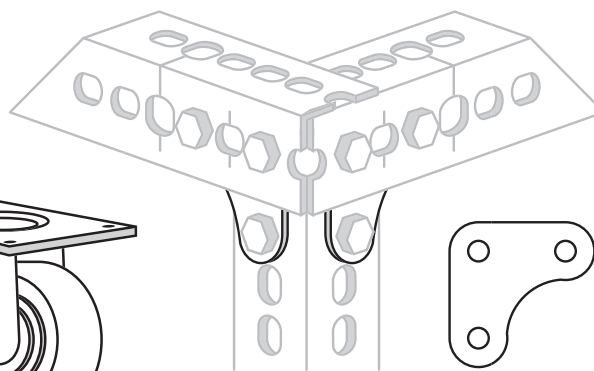
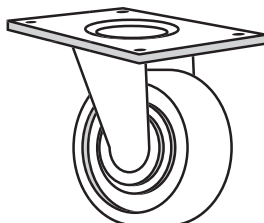
Extra Nuts and Bolts



Cat. No.	Package 100 Sets	Std. Ctn.
RA-BN-5/8	2-3/8 in. - 16 x 1-5/8 in.	100
Use with RA-160 & RA-225		
RA-BN-3/4	2-3/8 in. - 16 x 3/4 in.	100
Use with RA-300		



Rigid & Swivel Casters.
Hard rubber composition 3-1/2 in. dia.
with load rating of 225 lb. per wheel.

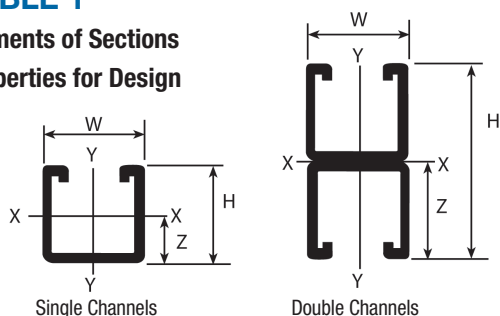


Cat. No.	Package	Std. Ctn.
RA-GP	25	100
RA-RC	2	2
RA-SC	2	2
RA-C	1	1

Engineering Data & Specifications

Design Data – Metal Framing Channel

TABLE 1
Elements of Sections
Properties for Design



Nominal Thickness (inches)

- 12 ga = 0.105
- 14 ga = 0.075
- 16 ga = 0.060

LEGEND	
I	Moment of inertia
S	Section Modulus
r	Radius of Gyration
Z	Nominal Axis
A	Area

Section Member	WT. lb./ft.	H (in.)	W (in.)	A (in.) ²	X-X AXIS				Y-Y AXIS		
					I (in.) ⁴	S (in.) ³	r (in.)	Z (in.)	I (in.) ⁴	S (in.) ³	r (in.)
Single Channel											
A1200	1.90	1.625	1.625	0.557	0.192	0.212	0.587	0.719	0.237	0.292	0.652
B1200	1.28	0.813	1.625	0.381	0.031	0.063	0.283	0.331	0.137	0.168	0.600
C1200	1.70	1.375	1.625	0.500	0.121	0.155	0.492	0.595	0.205	0.252	0.640
D1200	1.44	1.000	1.625	0.424	0.053	0.092	0.356	0.403	0.159	0.196	0.616
E1200	2.47	2.438	1.625	0.726	0.529	0.399	0.853	1.112	0.335	0.413	0.679
Double Channel											
A1202	3.80	3.250	1.625	1.114	0.948	0.583	0.992	1.625	0.474	0.584	0.652
B1202	2.56	1.626	1.625	0.762	0.147	0.181	0.439	0.813	0.274	0.337	0.600
C1202	3.40	2.750	1.625	1.000	0.595	0.433	0.772	1.375	0.409	0.504	0.640
D1202	2.88	2.000	1.625	0.847	0.257	0.257	0.552	1.090	0.319	0.393	0.616
E1202	4.94	4.876	1.625	1.450	2.854	1.171	1.402	2.438	0.672	0.827	0.680
Double Channel											
H1202	6.10	6.500	1.625	1.794	6.273	1.930	1.870	3.250	0.871	1.072	0.697
A1402	2.80	3.250	1.625	0.801	0.668	0.411	0.913	1.625	0.367	0.452	0.677
B1402	1.94	1.626	1.625	0.560	0.112	0.138	0.447	0.813	0.206	0.254	0.607

TABLE 2

Maximum Pullout and Slip Loads for Steel Channel and Channel Nuts

Channel Nuts Size / Thread	Channel All Series	Pull Out Strength		Slip Resistance		Torque	
		lb.	kN	lb.	kN	lb.	kN
1/4 - 20	A1200 B1200 C1200 D1200 E1200 H1200	600	2.7	300	1.3	6	8
5/16 - 18		800	3.6	500	2.2	11	15
3/8 - 16		1000	4.4	800	3.6	19	25
1/2 - 13		2000	8.9	1500	6.7	50	70
5/8 - 11		2500	11.1	1500	6.7	100	135
3/4 - 10		2500	11.1	1700	7.6	125	170
1/4 - 20	A1400	600	2.7	300	1.3	6	8
5/16 - 18		800	3.6	400	1.8	11	15
3/8 - 16		1000	4.4	750	3.3	19	25
1/2 - 13	B1400	1400	6.2	1000	4.4	50	70

For aluminum channel the pull out load is calculated by multiplying the appropriate data by 50%. For slip resistance multiply by 75%.

Maximum Pullout and Slip Loads for Fiber Glass Channel and Channel Nuts

Channel Nuts Size / Thread	Channel All Series	Pull Out Strength		Slip Resistance		Torque	
		lb.	kN	lb.	kN	lb.	kN
1/4 - 20	-	-	-	-	-	-	-
5/16 - 18	-	-	-	-	-	-	-
3/8 - 16	A1200	300	1.3	150	0.6	200	22.6
1/2 - 13	D1200	300	1.3	150	0.6	200	22.6

Engineering Data & Specifications

Design Data – Metal Framing Channel

TABLE 3

Design loads for channel used as beam or column

BEAM LOADS

Table 3 contains simple beam, uniformly-distributed loads calculated at 25,000 psi material stress. Beam loads are based on channel being loaded across the x-x axis. Loads are also listed at reduced deflections for long spans.

Maximum loads at 25,000 psi stress

Maximum allowable deflections and maximum uniform loads for all spans at 25,000 psi material stress.

Reduced load for all 1/180 Span Deflection

For moderate deflections on the longer spans, reduced loads are listed which will produce a deflection equal to 1/180 of the span. When maximum loads do not induce deflections exceeding 1/180 x the span length reduced loads are not required.

Reduced load for 1/360 Span Deflection

For very slight deflections on the longer spans, reduced loads are listed which will produce a deflection equal to 1/360 of the span. When maximum loads do not induce deflections exceeding 1/360 x the span length reduced loads are not required.

Concentrated loads

To obtain values for concentrated loads from Table 3, multiply uniform load by 0.5 and deflection by 1.25.

Slotted, Punched, or KO Channel

Reduce load rating by 5%.

Long span deep beams

Support in a manner to prevent rotation at supports and tie between supports to prevent twist.

COLUMN LOADS

Allowable column loads given are for uniform axial loading with pinned ends. For eccentric loading or other end conditions reduce allowable loads according to standard engineering practice.

DYNAMIC LOADS

Allowable dynamic loads may be calculated by dividing the static loads shown in Table 3, by 2.08.

Maximum beam and column loading for special materials is multiplied with the following factors:

Channel Type	Beam Type	Column Load
Stainless Steel	1	1
Aluminum	0.33	0.33

Warning

Load tables, charts and design criteria provided in this section are intended as guides only. Selection of proper product, installation intervals, erection, and placement are the responsibility of the user.

Thomas & Betts reserves the right to change material and finish specifications without notice, to improve its products.

Engineering Data & Specifications

Design Data – Metal Framing Channel

TABLE 3 (cont'd.)

Single Channel										
Cat. No.	Depth (in.)	Ga.	Maximum Uniform		1/180 Span		1/360 Span		Col. Load	
			Load	Defl.	Load	Defl.	Load	Defl.		
12 in. Beam or Column										
A1200	1-5/8	12	3,534	0.014	0.067		0.033		10,533	
B1200	13/16		1,050	0.026					6,683	
C1200	1-3/8		2,584	0.016					9,345	
D1200	1		1,538	0.022					8,670	
E1200	2-7/16		6,650	0.010					13,830	
H1200	3-1/4		10,583	0.008					17,106	
A1400	1-5/8	14	2,434	0.015	0.067		0.033		7,575	
B1400	13/16		850	0.028					4,950	
18 in. Beam or Column										
A1200	1-5/8	12	2,355	0.033	0.100		0.050		10,2100	
B1200	13/16		700	0.059					6,058	
C1200	1-3/8		1,723	0.038					8,970	
D1200	1		1,025	0.052					7,930	
E1200	2-7/16		4,434	0.023					13,482	
H1200	3-1/4		7,055	0.016					16,693	
A1400	1-5/8	14	1,623	0.031	0.100		0.050	453	7,334	
B1400	13/16		566	0.063					4,150	
24 in. Beam or Column										
A1200	1-5/8	12	1,766	0.058	0.133		0.067		9,842	
B1200	13/16		525	0.105					333	5,315
C1200	1-3/8		1,291	0.066					8,545	
D1200	1		769	0.087					490	7,050
E1200	2-7/16		3,325	0.039					13,082	
H1200	3-1/4		5,291	0.030					16,277	
A1400	1-5/8	14	1,216	0.056	0.133		0.067	258	7,058	
B1400	13/16		425	0.110					4,000	
30 in. Beam or Column										
A1200	1-5/8	12	1,414	0.089	0.167		0.083		9,419	
B1200	13/16		420	0.164					266	4,465
C1200	1-3/8		1,034	0.104					1,040	8,060
D1200	1		0.615	0.129					389	6,650
E1200	2-7/16		2,660	0.063					12,640	
H1200	3-1/4		4,234	0.046					15,698	
A1400	1-5/8	14	974	0.088	0.167		0.083	165	6,753	
B1400	13/16		340	0.172					3,420	

When no numbers are shown, use the maximum uniform load. Deflections are given in inches; loads in lb.

Double Channel										
Cat. No.	Depth (in.)	Ga.	Maximum Uniform		1/180 Span		1/360 Span		Col. Load	
			Load	Defl.	Load	Defl.	Load	Defl.		
12 in. Beam or Column										
A1202	3-1/4	12		0.008	0.067		0.033		21,177	
B1202	1-5/8	12	3,016	0.016					14,110	
C1202	2-3/4	12		0.010					18,990	
D1202	2	12		0.012					18,312	
E1202	4-7/8	12		0.005					27,623	
H1202	6-1/2	12		0.004					34,210	
A1402	3-1/4	14		0.008	0.067		0.033		15,250	
B1402	1-5/8	14	2,300	0.016					10,390	
18 in. Beam or Column										
A1202	3-1/4	12		0.018	0.100		0.050		20,609	
B1202	1-5/8	12	2,011	0.036					13,440	
C1202	2-3/4	12	4,811	0.021					18,470	
D1202	2	12		0.028					17,942	
E1202	4-7/8	12		0.013					16,926	
H1202	6-1/2	12		0.009					33,390	
A1402	3-1/4	14		0.018	0.100		0.050		14,867	
B1402	1-5/8	14	1,534	0.036					9,910	
24 in. Beam or Column										
A1202	3-1/4	12	4,858	0.031	0.133		0.067		19,974	
B1202	1-5/8	12	1,509	0.064					12,670	
C1202	2-3/4	12	3,609	0.038					17,890	
D1202	2	12	2,680	0.042					17,160	
E1202	4-7/8	12		0.021					26,143	
H1202	6-1/2	12		0.016					32,435	
A1402	3-1/4	14	3,425	0.033	0.133		0.067		14,426	
B1402	1-5/8	14	1,150	0.064					9,350	
30 in. Beam or Column										
A1202	3-1/4	12	3,886	0.049	0.167		0.083		19,261	
B1202	1-5/8	12	1,206	0.100					11,803	
C1202	2-3/4	12	2,886	0.059					17,230	
D1202	2	12	2,128	0.084					16,480	
E1202	4-7/8	12	7,806	0.034					25,259	
H1202	6-1/2	12		0.025					31,395	
A1402	3-1/4	14	2,740	0.050	0.167		0.083		13,937	
B1402	1-5/8	14	920	0.100					8,730	

Engineering Data & Specifications

Design Data – Metal Framing Channel

TABLE 3 (cont'd.)

Single Channel										
Cat. No.	Depth (in.)	Ga.	Maximum Uniform		1/180 Span		1/360 Span		Col. Load	
			Load	Defl.	Load	Defl.	Load	Defl.		
36 in. Beam or Column										
A1200	1-5/8	12	1,178	0.129	0.200		917	0.100	8,962	
B1200	13/16		350	0.236			148		3,498	
C1200	1-3/8		861	0.149			578		7,525	
D1200	1		513	0.198			217		4,335	
E1200	2-7/16		2,216	0.088					12,160	
H1200	3-1/4		3,528	0.068					15,132	
A1400	1-5/8	14	811	0.126	0.200		640	0.100	6,416	
B1400	13/16		284	0.248			115		2,755	
42 in. Beam or Column										
A1200	1-5/8	12	1,010	0.175	0.233		674	0.117	8,466	
B1200	13/16		300	0.323			217		109	2,579
C1200	1-3/8		738	0.203			425		6,945	
D1200	1		440	0.264			319		160	3,280
E1200	2-7/16		1,900	0.120					11,698	
H1200	3-1/4		3,024	0.091					14,514	
A1400	1-5/8	14	695	0.160	0.233		470	0.117	6,051	
B1400	13/16		243	0.336			168		84	2,060
48 in. Beam or Column										
A1200	1-5/8	12	884	0.228	0.267		516	0.133	7,943	
B1200	13/16		263	0.420			167		83	1,981
C1200	1-3/8		646	0.265			325		6,325	
D1200	1		384	0.352			244		122	2,439
E1200	2-7/16		1,663	0.156					11,092	
H1200	3-1/4		2,646	0.120					13,850	
A1400	1-5/8	14	609	0.120	0.267		360	0.133	5,658	
B1400	13/16		213	0.440			129		64	1,580
54 in. Beam or Column										
A1200	1-5/8	12	785	0.289	0.300		408	0.150	7,369	
B1200	13/16		234	0.533			132		66	1,555
C1200	1-3/8		574	0.335			257		5,650	
D1200	1		341	0.466			193		96	2,012
E1200	2-7/16		1,478	0.198					1,123	10,505
H1200	3-1/4		2,351	0.151						13,150
A1400	1-5/8	14	541	0.286	0.300		284	0.150	5,241	
B1400	13/16		189	0.556			102		51	1,250

When no numbers are shown, use the maximum uniform load.
Deflections are given in inches; loads in lb.

Double Channel											
Cat. No.	Depth (in.)	Ga.	Maximum Uniform		1/180 Span		1/360 Span		Col. Load		
			Load	Defl.	Load	Defl.	Load	Defl.			
36 in. Beam or Column											
A1202	3-1/4	12	3,239	0.071	0.200		0.100	1248	0.100	18,470	
B1202	1-5/8		1,005	0.144						702	10,840
C1202	2-3/4		2,400	0.085							16,500
D1202	2		1,428	0.114							15,057
E1202	4-7/8		6,505	0.048							24,316
H1202	6-1/2			0.036							30,265
A1402	3-1/4	14	2,284	0.071	0.200		0.100	535	0.100	13,416	
B1402	1-5/8		766	0.144							8,050
42 in. Beam or Column											
A1202	3-1/4	12	2,776	0.098	0.233		0.117	1069	0.117	17,635	
B1202	1-5/8		863	0.195						516	9,790
C1202	2-3/4		2,063	0.115							15,730
D1202	2		1,224	0.166							13,042
E1202	4-7/8		5,576	0.065							23,272
H1202	6-1/2			0.049							29,025
A1402	3-1/4	14	1,958	0.225	0.233		0.117	393	0.117	12,832	
B1402	1-5/8		658	0.195							7,300
48 in. Beam or Column											
A1202	3-1/4	12	2,429	0.128	0.267		0.133	702	0.133	16,730	
B1202	1-5/8		754	0.255						395	8,640
C1202	2-3/4		1,804	0.151							14,890
D1202	2		1,071	0.203							11,387
E1202	4-7/8		4,879	0.085							22,170
H1202	6-1/2			0.064							27,700
A1402	3-1/4	14	1,713	0.128	0.267		0.133	301	0.133	12,223	
B1402	1-5/8		575	0.255							6,480
54 in. Beam or Column											
A1202	3-1/4	12	2,159	0.161	0.300		0.150	624	0.150	15,763	
B1202	1-5/8		670	0.323						312	7,405
C1202	2-3/4		1,604	0.190							13,990
D1202	2		952	0.266							10,391
E1202	4-7/8		4,338	0.108							20,980
H1202	6-1/2		7,149	0.081							16,280
A1402	3-1/4	14	1,523	0.161	0.300		0.150	238	0.150	11,566	
B1402	1-5/8		511	0.323							5,580

Engineering Data & Specifications

Design Data – Metal Framing Channel

TABLE 3 (con d.)

Single Channel										
Cat. No.	Depth (in.)	Ga.	Maximum Uniform		1/180 Span		1/360 Span		Col. Load	
			Load	Defl.	Load	Defl.	Load	Defl.		
60 in. Beam or Column										
A1200	1-5/8	12	706	0.358	0.333	157	330	0.167	6,762	
B1200	13/16		210	0.658			107		53	-
C1200	1-3/8		516	0.414			208		78	4,920
D1200	1		308	0.550			78		909	1,561
E1200	2-7/16		1,330	0.244						9,874
H1200	3-1/4		2,116	0.186						12,406
A1400	1-5/8	14	486	0.353	0.333	82	231	0.167	4,792	
B1400	13/16		170	0.687			41			-
66 in. Beam or Column										
200	1-5/8	12	643	0.432	0.367	129	273	0.183	6,127	
B1200	13/16		191	0.795			88		44	-
C1200	1-3/8		470	0.501			344		172	4,145
D1200	1		280	0.675			65		753	1,280
E1200	2-7/16		1,210	0.295						9,211
H1200	3-1/4		1,924	0.226						11,616
A1400	1-5/8	14	443	0.426	0.367	68	190	0.183	4,311	
B1400	13/16		155	0.831			35			-
72 in. Beam or Column										
A1200	1-5/8	12	589	0.514	0.400	108	299	0.200	5,436	
B1200	13/16		175	0.946			74		37	-
C1200	1-3/8		430	0.595			289		144	3,485
D1200	1		256	0.792			54		632	1,084
E1200	2-7/16		1,108	0.351						8,509
H1200	3-1/4		1,839	0.269						10,782
A1400	1-5/8	14	405	0.506	0.400	320	160	0.200	3,809	
B1400	13/16		141	0.989			57		29	-
84 in. Beam or Column										
A1200	1-5/8	12	505	0.700	0.467	92	168	0.233	4,061	
B1200	13/16						54		27	-
C1200	1-3/8		369	0.811			212		106	2,565
D1200	1		220	1.079			92		58	796
E1200	2-7/16		950	0.479					464	6,991
H1200	3-1/4		1,513	0.366					965	8,988
A1400	1-5/8	14	348	0.691	0.467	235	118	0.233	2,827	
B1400	13/16						42		21	-

Double Channel											
Cat. No.	Depth (in.)	Ga.	Maximum Uniform		1/180 Span		1/360 Span		Col. Load		
			Load	Defl.	Load	Defl.	Load	Defl.			
60 in. Beam or Column											
A1202	3-1/4	12	1,944	0.199	0.333	449	0.167	0.167	14,738		
B1202	1-5/8		604	0.398					253		6,100
C1202	2-3/4		1,444	0.235					1,023		13,050
D1202	2		257	0.318							7,531
E1202	4-7/8		3,904	0.133							19,734
H1202	6-1/2		6,434	0.100							24,810
A1402	3-1/4	14	1,370	0.199	0.333	193	.167	.167	10,878		
B1402	1-5/8		460	0.399							4,640
66 in. Beam or Column											
A1202	3-1/4	12	1,766	0.240	0.367	593	0.183	0.183	13,646		
B1202	1-5/8		549	0.481					418	209	5,055
C1202	2-3/4		1,313	0.285						846	12,030
D1202	2		779	0.377						360	6,581
E1202	4-7/8		3,549	0.180							18,415
H1202	6-1/2		5,849	0.120							23,230
A1402	3-1/4	14	1,245	0.241	0.367	318	0.183	0.183	10,133		
B1402	1-5/8		419	0.483						159	3,840
72 in. Beam or Column											
A1202	3-1/4	12	1,620	0.286	0.400	468	0.200	0.200	12,500		
B1202	1-5/8		503	0.574					351	176	4,230
C1202	2-3/4		1,203	0.339						710	10,980
D1202	2		714	0.457						312	5,230
E1202	4-7/8		3,253	0.191							17,023
H1202	6-1/2		5,361	0.143							21,560
A1402	3-1/4	14	1,141	0.286	0.400	267	0.200	0.200	9,340		
B1402	1-5/8		384	0.574						134	3,220
84 in. Beam or Column											
A1202	3-1/4	12	1,388	0.390	0.467	344	0.233	0.233	9,992		
B1202	1-5/8		431	0.780					258	129	3,100
C1202	2-3/4		1,031	0.461						522	8,670
D1202	2		612	0.623						229	3,842
E1202	4-7/8		2,788	0.260							13,993
H1202	6-1/2		4,595	0.195							17,975
A1402	3-1/4	14	979	0.390	0.467	197	0.233	0.233	7,682		
B1402	1-5/8		329	0.781						98	2,370

When no numbers are shown, use the maximum uniform load.
Deflections are given in inches; loads in lb.

Engineering Data & Specifications

Design Data – Metal Framing Channel

TABLE 3 (cont'd.)

Single Channel										
Cat. No.	Depth (in.)	Ga.	Maximum Uniform		1/180 Span		1/360 Span		Col. Load	
			Load	Defl.	Load	Defl.	Load	Defl.		
96 in. Beam or Column										
A1200	1-5/8	12	441	0.914	258	0.533	129	0.267	3,108	
B1200	13/16				42		21		-	
C1200	1-3/8		323	1.059	163		81		1,960	
D1200	1		192	1.400	998		49		-	
E1200	2-7/16		831	0.730			355		5,423	
H1200	3-1/4		1,323	0.478			739		7,059	
A1400	1-5/8	14	304	0.903	180	0.533	90	0.267	2,615	
B1400	13/16				32		16		-	
108 in. Beam or Column										
A1200	1-5/8	12	393	1.156	204	0.600	102	0.300	2,456	
B1200	13/16				33		16		-	
C1200	1-3/8		288	1.350	128		64		-	
D1200	1		171	1.783	76		38		-	
E1200	2-7/16		739	0.790	561		281		4,291	
H1200	3-1/4		1,176	0.605			584		5,579	
A1400	1-5/8	14	270	1.141	142	0.600	71	0.300	1,708	
B1400	13/16				25		13		-	
120 in. Beam or Column										
A1200	1-5/8	12	354	1.425	165	0.667	83	0.333	-	
B1200	13/16				27		13		-	
C1200	1-3/8		259	1.663	104		52		-	
D1200	1		154	2.202	62		31		-	
E1200	2-7/16		665	0.976	455		227		3,478	
H1200	3-1/4		1,059	0.746			473		4,521	
A1400	1-5/8	14	244	1.413	114	0.667	57	0.333	-	
B1400	13/16				21		10		-	
144 in. Beam or Column										
A1200	1-5/8	12			115	0.800	57	0.400	-	
-										
C1200	1-3/8				72		36		-	
E1200	2-7/16		554	1.400	315		158		0.400	-
H1200	3-1/4		883	1.075	657		328		-	
A1400	1-5/8		14				80		0.800	40

When no numbers are shown, use the maximum uniform load.
Deflections are given in inches; loads in lb.

Double Channel										
Cat. No.	Depth (in.)	Ga.	Maximum Uniform		1/180 Span		1/360 Span		Col. Load	
			Load	Defl.	Load	Defl.	Load	Defl.		
96 in. Beam or Column										
A1202	3-1/4	12	1,215	0.509		0.533		0.267	637	7,675
B1202	1-5/8		378	1.019	197		99		-	
C1202	2-3/4		903	0.603			400		6,640	
D1202	2		535	0.813	263		176		2,942	
E1202	4-7/8		2,440	0.340			1,917		10,875	
H1202	6-1/2		4,021	0.255					14,120	
A1402	3-1/4	14	856	0.509		0.533	449	0.267	5,951	
B1402	1-5/8		288	1.020	150		75		-	
108 in. Beam or Column										
A1202	3-1/4	12	1,080	0.644		0.600		0.300	503	6,071
B1202	1-5/8		355	1.290	156		78		-	
C1202	2-3/4		801	0.763	632		316		5,250	
D1202	2		476	1.029	208		139		2,324	
E1202	4-7/8		2,169	0.430			1,515		8,599	
H1202	6-1/2		3,574	0.323					11,160	
A1402	3-1/4	14	761	0.644		0.600	355	.300	4,702	
B1402	1-5/8		255	1.290	119		59		-	
120 in. Beam or Column										
A1202	3-1/4	12	971	0.795		0.667		0.333	408	-
B1202	1-5/8		301	1.588	126		63		-	
C1202	2-3/4		721	0.941	512		256		4,250	
D1202	2		428	1.271	168		112		1,883	
E1202	4-7/8		1,951	0.531			1,227		6,946	
H1202	6-1/2		3,216	0.398					9,040	
A1402	3-1/4	14	685	0.796		0.667	287	0.333	3,805	
B1402	1-5/8		230	1.600	96		48		-	
144 in. Beam or Column										
A1202	3-1/4	12	810	1.145	566	0.800		0.400	283	-
B1202	1-5/8				88		44		-	
C1202	2-3/4		601	1.350	355		178		0.400	-
E1202	4-7/8		1,626	0.764			852		-	
H1202	6-1/2		2,680	0.573			1,873		-	
A1402	3-1/4		14	571	1.146		399		0.800	199
B1402	1-5/8				67	33	-			

Engineering Data & Specifications

Design Data – Metal Framing Channel

TABLE 3 (cont'd.)

Single Channel									
Cat. No.	Depth (in.)	Ga.	Maximum Uniform		1/180 Span		1/360 Span		Col. Load
			Load	Defl.	Load	Defl.	Load	Defl.	
168 in. Beam or Column									
A1200	1-5/8	12			84	0.933	42	0.467	-
-									
C1200	1-3/8				53		27		-
E1200	2-7/16	12	475	1.912	233	0.933	116	0.467	-
H1200	3-1/4		756	1.463	482		241		-
A1400	1-5/8	14			60	0.933	30	0.467	-
192 in. Beam or Column									
-									
-									
-									
E1200	2-7/16	12			178		89	0.533	-
H1200	3-1/4		661	1.91	369	1.07	185		-
-									
-									
216 in. Beam or Column									
-									
-									
-									
E1200	2-7/16	12			140	1.20	70	0.600	-
H1200	3-1/4				292		146		-
-									
-									
240 in. Beam or Column									
-									
-									
-									
E1200	2-7/16	12			114	0.334	57	0.667	-
H1200	3-1/4				236		118		-
-									
-									

When no numbers are shown, use the maximum uniform load. Deflections are given in inches; loads in lb.

Double Channel									
Cat. No.	Depth (in.)	Ga.	Maximum Uniform		1/180 Span		1/360 Span		Col. Load
			Load	Defl.	Load	Defl.	Load	Defl.	
168 in. Beam or Column									
A1202	3-1/4		694	1.563	916		208		-
B1202	1-5/8				64		32		-
C1202	2-3/4	12	515	1.850	261	0.933	130	0.467	-
E1202	4-7/8		1,394	1.040	1,255		626		-
H1202	6-1/2		2,298	0.780			1,326		-
A1402	3-1/4	14	489	1.563	293	0.933	147	0.467	-
B1402	1-5/8				49		25		-
192 in. Beam or Column									
A1202	3-1/4	12			318	1.07	159	0.533	-
-									
C1202	2-3/4				200		100		-
E1202	4-7/8	12	1,220	1.363	958	1.07	479	0.533	-
H1202	6-1/2		2,010	1.019			1,053		-
A1402	3-1/4	14			224	1.07	112	0.533	-
-									
216 in. Beam or Column									
A1202	3-1/4	12			252	1.20	126	0.600	-
-									
C1202	2-3/4				158		79		-
E1202	4-7/8	12	1,084	1.725	757	1.20	379	0.600	-
H1202	6-1/2		1,788	1.288			832		-
A1402	3-1/4	14			177	1.20	89	0.600	-
-									
240 in. Beam or Column									
A1202	3-1/4	12			204	1.33	102	0.667	-
-									
C1202	2-3/4				128		64		-
E1202	4-7/8	12			613	1.33	307	0.667	-
H1202	6-1/2		1,609	1.588			674		-
A1402	3-1/4	14			144	1.33	72	.667	-
-									

Engineering Data & Specifications

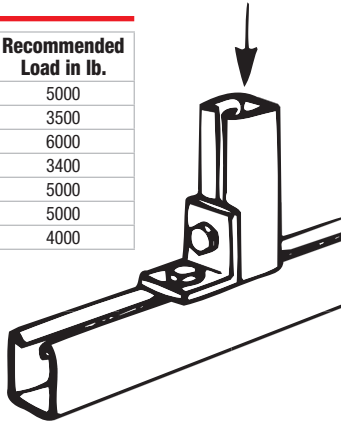
Design Data – Metal Framing Channel

TABLE 4

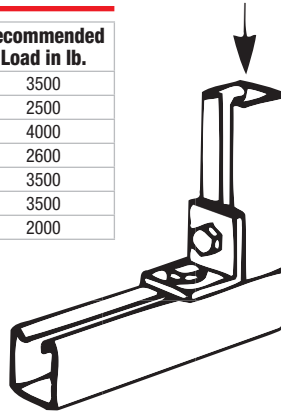
Safe bearing loads for 1-5/8 in. channel and combinations.

Safety factor of 2-1/2

Section	Recommended Load in lb.
A1200	5000
A1400	3500
B1200	6000
B1400	3400
C1200	5000
E1200	5000
H1200	4000



Section	Recommended Load in lb.
A1200	3500
A1400	2500
B1200	4000
B1400	2600
C1200	3500
E1200	3500
H1200	2000



Section	Recommended Load in lb.
A1200	8000
A1400	5500
B1200	9000
B1400	4800
C1200	8000
E1200	8000
H1200	5500

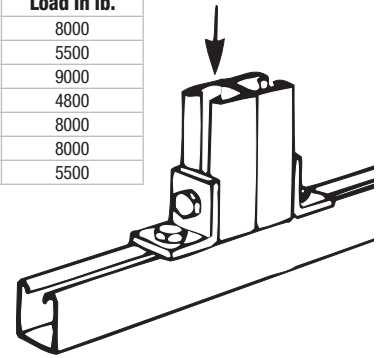


TABLE 5

Design load table for typical channel connections.

Safety factor of 2-1/2 based on ultimate strength of the connection. Load diagrams indicate up to three design loads, for 12 gauge and 14 gauge channel applications.

90° Fittings (When used in position shown)

Both ends supported

AB202	A1200	1500 lb.
	A1400	1000 lb.

Both ends supported

AB203	A1200	2000 lb.
	A1400	1500 lb.

AB201	AB203
700 lb.	700 lb.

Both ends supported

AB202	A1200	1000 lb.
	A1400	650 lb.

Both ends supported

AB213	A1200	3000 lb.
AB214	A1400	2000 lb.

AB20	1500 lb.
------	----------

Both ends supported

AB205	A1200	2000 lb.
AB216	A1400	2000 lb.

Both ends supported

AB204	A1200	1500 lb.
AB215	A1400	1000 lb.

Flat Plate Fittings

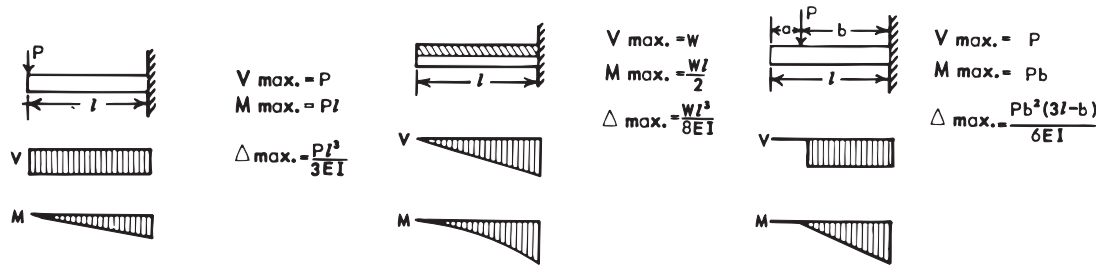
Both ends supported

AB206	A1200	1000 lb.
	A1400	800 lb.

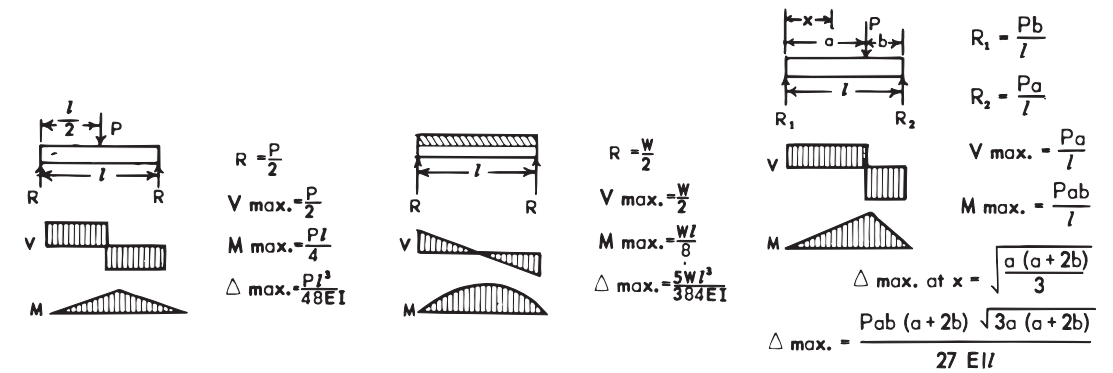
Engineering Data & Specifications

Design Applications

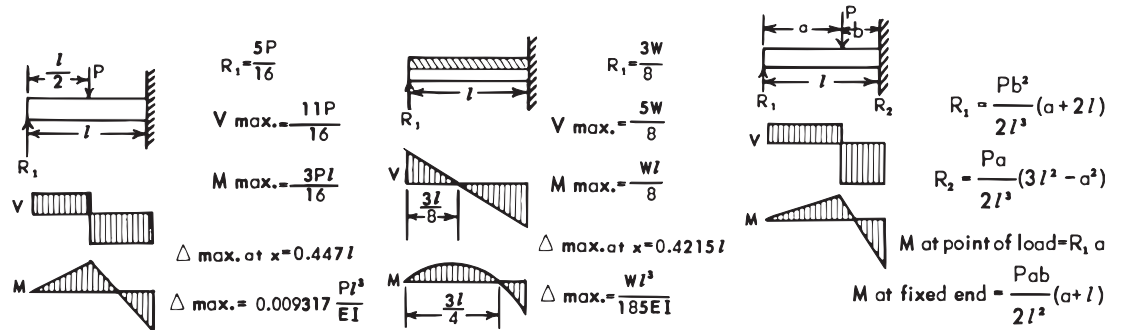
CANTILEVER BEAMS



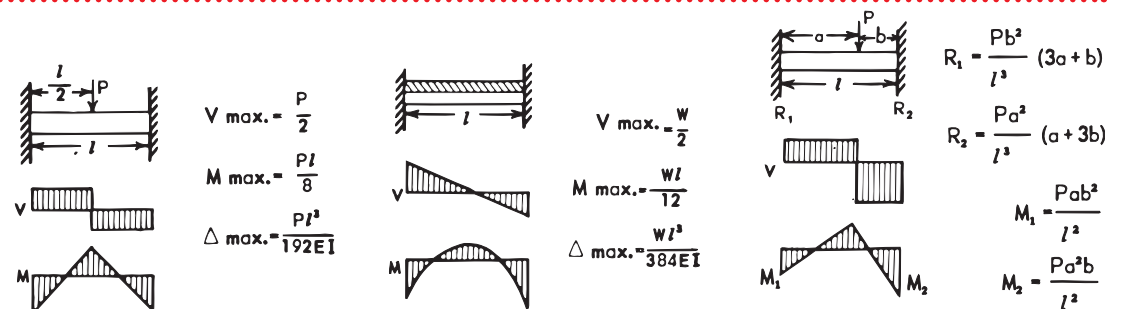
SIMPLE BEAMS



BEAMS FIXED ON ONE END, SUPPORTED AT THE OTHER END



BEAMS FIXED AT BOTH ENDS



R - Reaction
M - Moment
P - Concentrated load

W - Total uniform load
V - Shear

Δ - Deflection
E - Modulus of Elasticity
I - Moment of Inertia












Engineering Data & Specifications

Design Applications

TABLE 6

Conversion Factors for Beams with Various Static Loading Conditions

Load tables on pages A59 through A63 for A, B, C, E, and H Series channel are for single span beams supported at the ends. These can be used in the majority of cases. There are times when it is necessary to know what happens with other loading and support conditions. Some common arrangements are shown in Table 6. Simply multiply the loads from the Design Load Tables times the factors given in Table 6.

LOAD AND SUPPORT CONDITION	LOAD FACTOR	DEFLECTION FACTOR
1. Simple Beam - Uniform Load 	1.00	1.00
2. Simple Beam - Concentrated Load at Center 	0.50	1.25
3. Simple Beam - Two Equal Concentrated Loads at 1/4 Points 	1.00	1.10
4. Beam Fixed at Both Ends - Uniform Load 	1.50	0.30
5. Beam Fixed at Both Ends - Concentrated Load at Center 	1.00	0.40
6. Cantilever Beam - Uniform Load 	0.25	2.40
7. Cantilever Beam - Concentrated Load at End 	0.12	3.20
8. Continuous Beam - Two Equal Spans - Uniform Load on One Span 	1.30	0.92
9. Continuous Beam - Two Equal Spans - Uniform Load on Both Ends 	1.00	0.42
10. Continuous Beam - Two Equal Spans - Concentrated Load at Center of One Span 	0.62	0.71
11. Continuous Beam - Two Equal Spans - Concentrated Load at Center of Both Spans 	0.67	0.48

Engineering Data & Specifications

Design Applications

EXAMPLE I

PROBLEM:

Determine the load and deflection of an A1200 beam continuous over one support and loaded uniformly on one span.



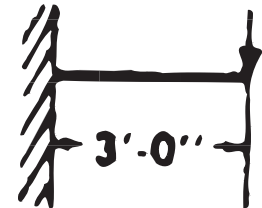
SOLUTION:

- From load table 3 for A1200 the load for a 5 ft. 0 in. span is 706lb. and deflection is 0.358 in.
- Multiply by factors from Table 6.
Load = 706 lb. x 1.30 = 917.8 lb.
Deflection = 0.358 x 0.92 = 0.329 in.

EXAMPLE II

PROBLEM:

Determine load and deflection of an E1200 cantilever beam with a concentrated load on the end.



SOLUTION:

- From load table 3 for E1200 the load for a 3 ft. 0 in. span is 2216 lb. and deflection is 0.088 in.
- Multiply by factors from Table 6.
Load = 2216 lb. x .12 = 265.9 lb.
Deflection = 0.088 x 3.20 = 0.282 in.

COLUMN LOADING

The load bearing capacity of column or compression members is a function of the inherent configurational strength, the unbraced length and design of the end connections.

Values of axial column loading given in Table 3 were calculated using a rotationally free and translation fixed correction at each end (see illustration I). This gives an end condition constant (K) of 1.

If other end conditions are used, axial loading should be calculated using procedures in the AISI specification for the design of cold formed steel structural members (SG671) and the engineering values for Superstrut® channel given in Table 1.

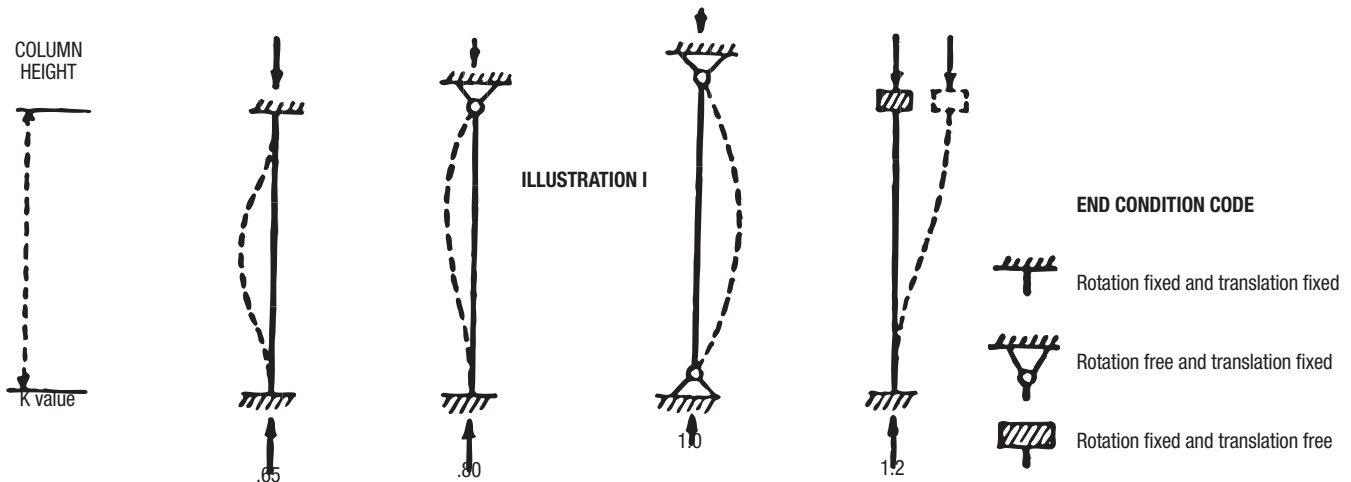


TABLE 7

Load Carrying Capacities of Hot Rolled Steel Rod

Nominal Rod Dia. (in.)	Root Area Thread (in.)	Design Load lb. for Serv. Temperature	
		343°C (650°F)	399°C (750°F)
3/8	0.068	610	540
1/2	0.126	1130	1010
5/8	0.202	1810	1610
3/4	0.302	2710	2420
7/8	0.419	3770	3360

Safety factor of 5.

TABLE 8

Rod Size Determined by Pipe Size for Fire Protection

Pipe Size (in.)	Rod Size (in.)
3/4 to 2	3/8
2-1/2 to 3-1/2	1/2
4 to 5	5/8
6	3/4
8 to 12	7/8

Engineering Data & Specifications

Design Applications

TABLE 9

Maximum Spacing between Pipe Supports

Steel Pipe																			
Nom. Pipe Size (in.)	1/2	3/4	1		1-1/2	2	2-1/2	3	3-1/2	4	5	6	8	10	12	14	16	18	20
Max. Spacing (ft.)	5	6	7		9	10	11	12	13	14	16	17	19	22	23	25	27	28	30
Copper Pipe																			
Nom. Pipe Size (in.)	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4									
Max. Spacing (ft.)	5	6	6	7	8	9	10	10	11	12									

TABLE 10

Minimum Spacing (inches) between Centers of Standard Pipe When Using Superstrut #702 Pipe Straps

Nom. Pipe Size (in.)	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6	8
1/2	1-3/16												
3/4	1-5/16	1-7/16											
1	1-1/2	1-5/8	1-3/4										
1-1/4	1-3/4	1-7/8	2	2-1/4									
1-1/2	1-15/16	2-1/16	2-3/16	2-7/16	2-9/16								
2	2-3/16	2-5/16	2-1/2	2-3/4	2-7/8	3-1/8							
2-1/2	2-7/16	2-9/16	2-3/4	3	3-1/8	3-3/8	3-5/8						
3	2-13/16	2-15/16	3-1/16	3-5/16	3-7/16	3-3/4	4	4-5/16					
3-1/2	3-1/8	3-1/4	3-3/8	3-5/8	3-3/4	4-1/16	4-5/16	4-5/8	4-15/16				
4	3-7/16	3-9/16	3-15/16	4-1/16	4-3/8	4-5/8	4-15/16	5-1/4	5-9/16				
6	4-3/4	4-7/8	5	5-1/4	5-3/8	5-5/8	5-7/8	6-3/16	6-1/2	6-13/16	7-7/16	8-1/8	
8	5-7/16	6	6-1/8	6-3/8	6-1/2	6-3/4	7	7-5/16	7-5/8	8	8-9/16	9-1/4	10-3/8

Engineering Data & Specifications

Design Applications

TABLE 11

Standard Dimensions and Weights of Piping Materials and Conduit

Mechanical (ANSI & API Standard, Schedule 40)				
Nominal Std. Pipe Size (in.)	Pipe O.D. (in.)	Coupling O.D. (in.)	Weight of Pipe lb./ft.	Weight of Pipe Filled w/Water lb./ft.
1/2	.84	1.06	0.85	0.98
3/4	1.05	1.31	1.13	1.36
1	1.32	1.58	1.68	2.05
1- 1/4	1.66	1.90	2.27	2.92
1- 1/2	1.90	2.20	2.72	3.60
2	2.38	2.75	3.65	5.11
2- 1/2	2.88	3.25	5.79	7.87
3	3.50	4.00	7.58	10.78
3- 1/2	4.00	4.63	9.11	13.39
4	4.50	5.00	10.79	16.30
5	5.56	6.30	14.62	23.28
6	6.63	7.39	18.97	31.48
8	8.63	9.23	28.56	50.24
10	10.75		41.00	74.00
12	12.75		50.00	99.00
14	14.00		64.00	122.00
16	16.00		63.00	142.00
18	18.00		71.00	172.00
20	20.00		79.00	205.00
22	22.00		87.00	240.00
24	24.00		95.00	277.00
26	26.00		103.00	322.00
28	28.00		111.00	364.00
30	30.00		119.00	410.00

Electrical Conduit					
Nominal Conduit Size (in.)	Rigid Steel			Thin Wall (EMT)	
	Conduit O.D. (in.)	Weight of Conduit lb./ft.	Weight of Conduit w/Non-lead Covered Conductor lb./ft.	Conduit O.D. (in.)	Weight of Conduit lb./ft.
1/2	0.84	0.85	1.04	0.71	0.29
3/4	1.05	1.13	1.40	0.92	0.44
1	1.32	1.68	2.35	1.16	0.64
1- 1/4	1.66	2.28	3.58	1.51	0.95
2	2.38	3.68	7.21	2.20	1.40
2- 1/2	2.88	5.82	10.22	2.88	2.30
3	3.50	7.62	14.51	3.50	2.70
4	4.50	10.89	21.48	4.50	4.00

Includes weight of heaviest conductor combination.

Engineering Data & Specifications

Design Applications

TABLE 12

Extra Strong Pipe (ANSI & API Standard, Schedule 80)

A.S.A. B36.10 SCHEDULE NOS. AND NOMINAL WALL THICKNESS DESIGNATIONS	Nominal Pipe Size (in.)	O.D. (in.)	Wall Thickness (in.)	I.D. (in.)	Weight of Pipe lb./ft.	Water Weight per ft. of Pipe lb.	Weight of Pipe Filled w/Water lb./ft.	
EXTRA STRONG PIPE and SCHEDULE 80 PIPE (through 8 in.)	3/8	0.675	0.126	0.423	0.74	0.061	0.801	
	1/2	0.840	0.147	0.546	1.09	0.101	1.191	
	3/4	1.050	0.154	0.742	1.47	0.188	1.668	
	1	1.315	0.179	0.957	2.17	0.311	2.481	
	1-1/4	1.660	0.191	1.278	3.00	0.555	3.555	
	1-1/2	1.900	0.200	1.500	3.63	0.765	4.395	
	2	2.375	0.218	1.939	5.03	1.279	6.309	
	2-1/2	2.875	0.276	2.323	7.66	1.834	9.497	
	3	3.500	0.300	2.900	10.30	2.860	13.16	
	3-1/2	4.000	0.318	3.364	12.55	3.850	16.35	
	4	4.500	0.337	3.826	15.00	4.98	19.98	
	5	5.563	0.375	4.813	20.80	7.89	28.69	
	6	6.625	0.432	5.761	28.60	11.29	39.89	
	8	8.625	0.500	7.625	43.40	19.79	63.20	
	EXTRA STRONG PIPE (10 in. through 24 in. OD)	10	10.750	0.500	9.750	54.70	32.30	87.00
		12	12.750	0.500	11.750	65.40	47.00	112.40
14 OD		14.000	0.500	13.000	72.10	57.50	129.60	
16 OD		16.000	0.500	15.000	82.80	76.50	159.30	
18 OD		18.000	0.500	17.000	93.50	98.40	191.90	
20 OD		20.000	0.500	19.000	104.10	122.80	226.90	
24 OD		24.000	0.500	23.000	125.50	180.10	305.60	
SCHEDULE 80 PIPE (10 in. through 24 in. OD)	10	10.750	0.593	9.564	64.300	31.10	95.40	
	12	12.750	0.687	11.376	88.50	44.00	132.50	
	14 OD	14.000	0.750	12.500	106.10	53.20	159.30	
	16 OD	16.000	0.842	14.314	136.50	69.70	206.20	
	18 OD	18.000	0.937	16.126	170.80	88.50	259.30	
	20 OD	20.000	1.031	17.938	208.90	109.40	318.30	
	24 OD	24.000	1.218	21.564	296.40	158.30	454.70	

TABLE 13

Pipe Covering Weights (Thickness intended as guide, only)

Nominal Pipe Size (in.)	260°		360°		440°		525°		600°		700°		800°	
	Thick. (in.)	lb./ft.	Thick. (in.)	lb./ft.	Thick. (in.)	lb./ft.	Thick. (in.)	lb./ft.	Thick. (in.)	lb./ft.	Thick. (in.)	lb./ft.	Thick. (in.)	lb./ft.
1	1	0.68	1	0.68	1	0.68	1	0.68	1-1/2	1.19	1-1/2	1.19	1-1/2	1.19
1-1/4	1	0.75	1	0.75	1	0.75	1	0.75	1-1/2	1.27	1-1/2	1.27	2	1.82
1-1/2	1	0.88	1	0.88	1	0.88	1	0.88	1-1/2	1.45	1-1/2	1.45	2	1.87
2	1	1.01	1	1.01	1	1.01	1-1/2	1.53	1-1/2	1.53	2	2.50	2	2.50
2-1/2	1	1.15	1	1.15	1	1.15	1-1/2	1.69	1-1/2	1.69	2	2.50	2-1/2	3.22
3	1	1.28	1	1.28	1	1.28	1-1/2	2.09	1-1/2	2.09	2	2.98	2-1/2	3.98
3-1/2	1	1.44	1	1.44	1-1/2	2.29	1-1/2	2.29	2	3.00	2	3.12	2-1/2	4.30
4	1	1.60	1	1.60	1-1/2	2.49	1-1/2	2.49	2	3.49	2	3.49	2-1/2	4.62
5	1	1.84	1	1.84	1-1/2	2.84	1-1/2	2.84	2	3.97	2	3.97	2-1/2	5.92
6	1-1/2	3.13	1-1/2	3.13	1-1/2	3.13	1-1/2	3.13	2	4.54	2	4.54	2-1/2	6.75
8	1-1/2	4.06	1-1/2	4.06	1-1/2	4.06	1-1/2	4.06	2	5.56	2	5.56	2-1/2	7.61

Thickness and weight of calcium silicate covering.

Engineering Data & Specifications

Design Applications

TABLE 14

Column Loading For Rack Construction

Typical general storage rack for use with plywood or other decking.



- GENERAL STORAGE RACKS
- PALLET RACKS
- BARREL RACKS
- BULK FURNITURE RACKS
- CABLE RACKS
- BAR STOCK RACKS
- DISPLAY RACKS
- SPECIAL PURPOSE RACKS

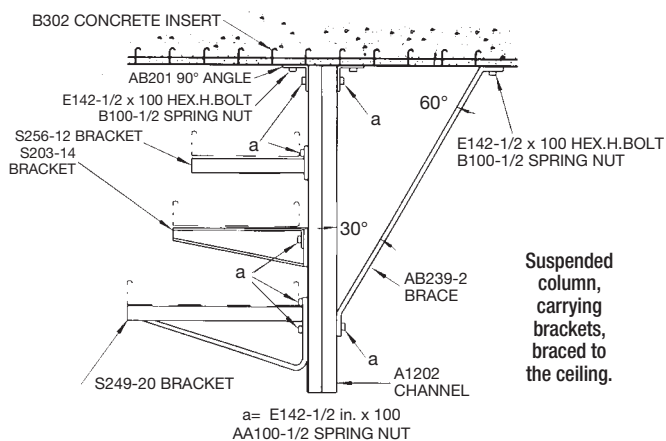
For Uniform Loads on Horizontal Members, See Table 3

Allowable load in lb. per upright										
Column Height	Cat. No.	Number of Shelves per upright								
		2	3	4	5	6	7	8	9	10
6'	A1200	2237	1925	1650	1437	1290				
	A1202	4170	3580	3100	2730	2450				
	B1400	800	820	790	700	630				
	B1402	1930	1700	1500	1300	1190				
7'	A1200	2150	1850	1630	1425	1280	1150			
	A1202	4000	3525	3000	2700	2430	2200			
	B1400	650	790	760	685	615	550			
	B1402	1800	1650	1450	1300	1180	750			
8'	A1200	2000	1820	1600	1400	1250	1150	1050		
	A1202	3900	3475	3000	2700	2400	2185	2000		
	B1400	580	750	730	660	610	540	510		
	B1402	1650	1610	1450	1300	1160	940	970		
9'	A1200	1950	1780	1575	1400	1250	1130	1030	950	
	A1202	3800	3400	3020	2675	2400	2180	1975	1800	
	B1400		600	665	600	580	540	500	475	
	B1402	1500	1500	1430	1275	1160	1000	900	800	
10'	A1200	1870	1700	1500	1300	1200	1100	1000	900	800
	A1202	3600	3300	3000	2650	2350	2000	1975	1800	1650
	B1400		550	650	625	580	535	490	450	425
	B1402	1450	1480	1400	1250	1140	1040	960	885	825

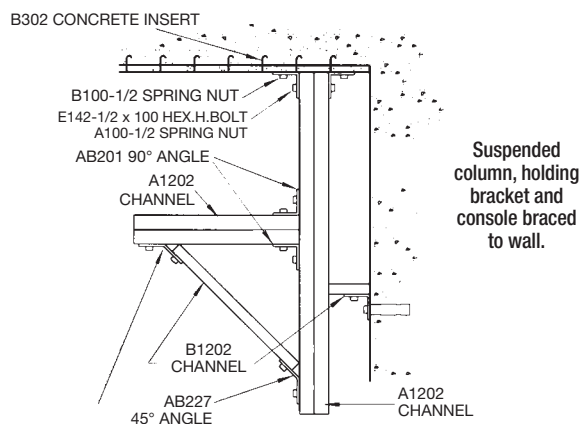
Engineering Data & Specifications

Design Applications – Mechanical Support

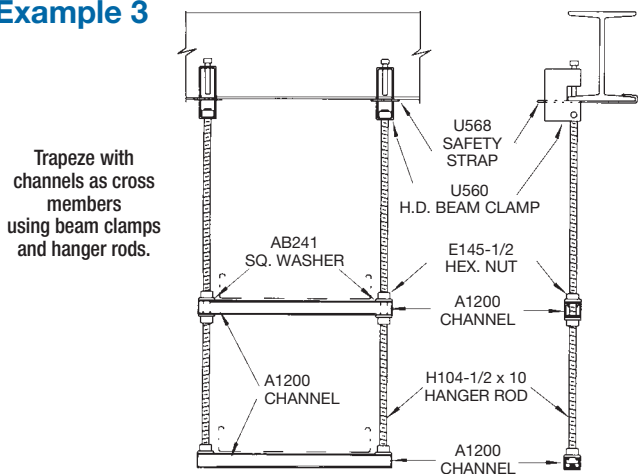
Example 1



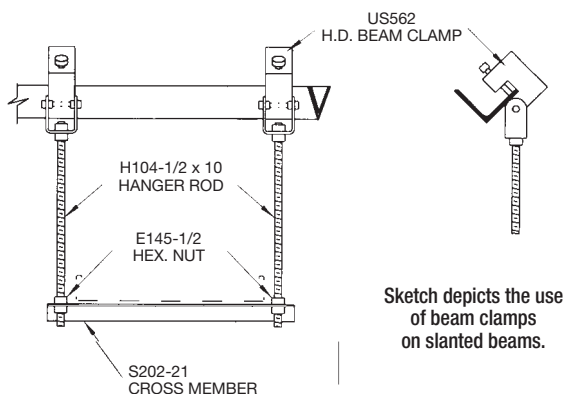
Example 2



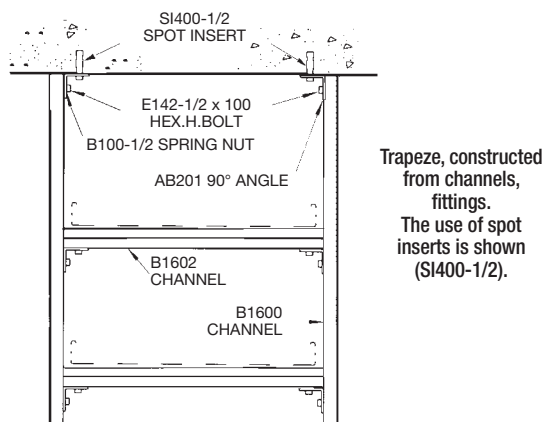
Example 3



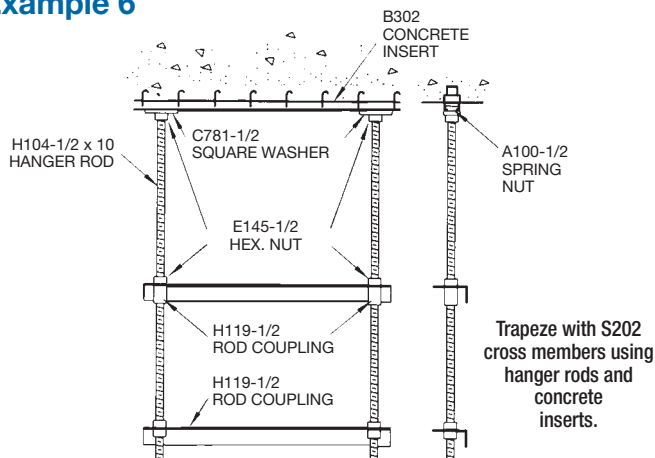
Example 4



Example 5



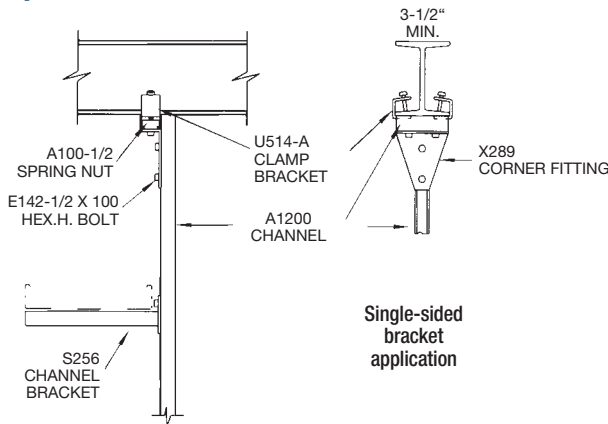
Example 6



Engineering Data & Specifications

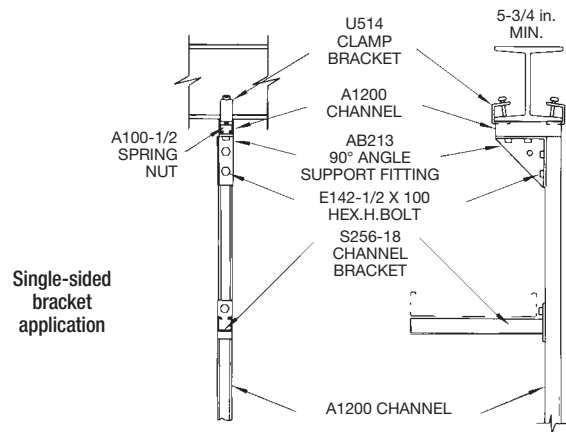
Design Applications – Mechanical Support

Example 7

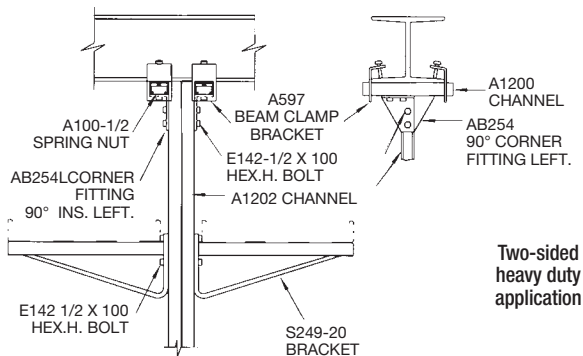


* NOTE: BRACE SHOULD BE USED FOR LENGTHS GREATER THEN 30 IN.

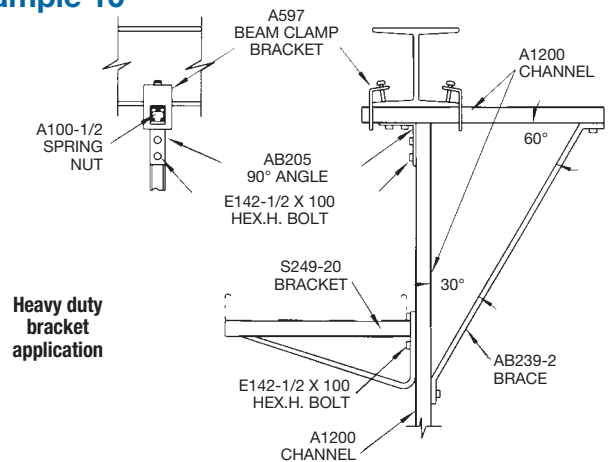
Example 8



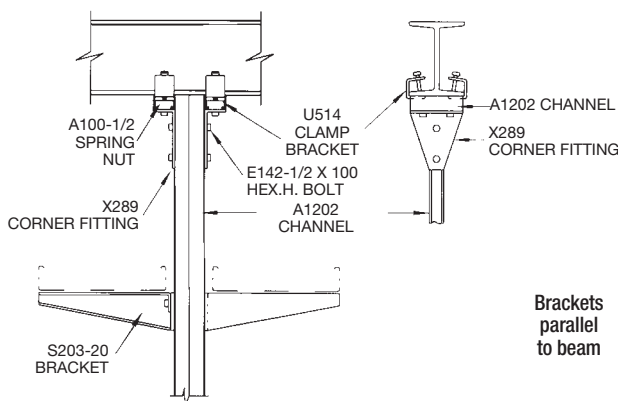
Example 9



Example 10



Example 11



Example 12

