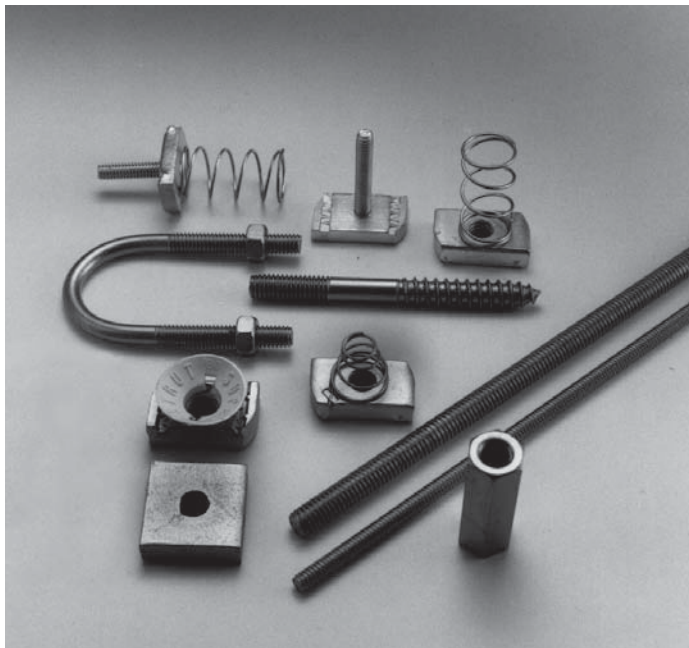




***SECTION 2
THREADED PRODUCTS AND HARDWARE***

Thomas & Betts



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.

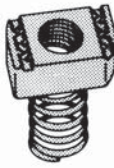

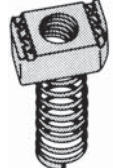



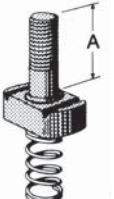
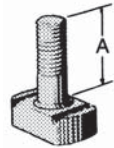
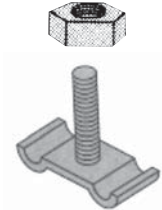
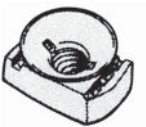

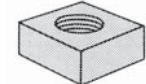

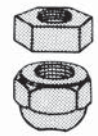

Thread Size	1/4	5/16	3/8	1/2	5/8	3/4	7/8	1
Threads per inch	20	18	16	13	11	10	9	8
Design Torque (ft-lb)	6	11	19	50	100	125	185	275

Finish and special materials


Standard finish for all hardware is Electrogalvanized (EGC), 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						

<p>A100* Regular Spring Nut</p>  <p>STD PACK: 100</p> <table border="1"> <thead> <tr> <th>Cat. No.</th> <th>Size</th> <th>Wt./C Lb</th> </tr> </thead> <tbody> <tr><td>A100-1/4EGC</td><td>1/4</td><td>8</td></tr> <tr><td>A100-5/16EGC</td><td>5/16</td><td>9</td></tr> <tr><td>A100-3/8EGC</td><td>3/8</td><td>10</td></tr> <tr><td>A100-1/2EGC</td><td>1/2</td><td>12</td></tr> <tr><td colspan="3">Nut is square over 1/2" size.</td></tr> <tr><td>A100-5/8EGC</td><td>5/8</td><td>19</td></tr> <tr><td>A100-3/4</td><td>3/4</td><td>19</td></tr> <tr><td>A100-7/8</td><td>7/8</td><td>18</td></tr> </tbody> </table> <p>Available in Stainless Steel 316. For all "A" and "C" series channel and inserts.</p>	Cat. No.	Size	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	Nut is square over 1/2" size.			A100-5/8EGC	5/8	19	A100-3/4	3/4	19	A100-7/8	7/8	18	<p>B100* Short Spring Nut</p>  <p>STD PACK: 100</p> <table border="1"> <thead> <tr> <th>Cat. No.</th> <th>Size</th> <th>Wt./C Lb</th> </tr> </thead> <tbody> <tr><td>B100-1/4EGC</td><td>1/4</td><td>7</td></tr> <tr><td>B100-5/16EGC</td><td>5/16</td><td>8</td></tr> <tr><td>B100-3/8EGC</td><td>3/8</td><td>9</td></tr> <tr><td>B100-1/2EGC</td><td>1/2</td><td>9</td></tr> </tbody> </table> <p>For all "B" and "D" series channel and inserts.</p>	Cat. No.	Size	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	<p>H100* Long Spring Nut</p>  <p>STD PACK: 100</p> <table border="1"> <thead> <tr> <th>Cat. No.</th> <th>Size</th> <th>Wt./C Lb</th> </tr> </thead> <tbody> <tr><td>H100-3/8EGC</td><td>3/8</td><td>10</td></tr> <tr><td>H100-1/2EGC</td><td>1/2</td><td>14</td></tr> </tbody> </table> <p>For all "E" and "H" series channel and inserts.</p>	Cat. No.	Size	Wt./C Lb	H100-3/8EGC	3/8	10	H100-1/2EGC	1/2	14
Cat. No.	Size	Wt./C Lb																																																			
A100-1/4EGC	1/4	8																																																			
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AB100-1/4	1/4	7																																																			
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<p>A182 to A185* Regular Spring Stud Nut</p>  <p>STD PACK: 100</p> <table border="1"> <thead> <tr> <th>Cat. No.</th> <th>Bolt Dia.</th> <th>Length A</th> </tr> </thead> <tbody> <tr><td>A182-1/4x100EGC</td><td>1/4</td><td>1</td></tr> <tr><td>A182-1/4x125EGC</td><td>1/4</td><td>1-1/4</td></tr> <tr><td>A184-3/8x100EGC</td><td>3/8</td><td>1</td></tr> <tr><td>A184-3/8x125EGC</td><td>3/8</td><td>1-1/4</td></tr> <tr><td>A185-1/2x100EGC</td><td>1/2</td><td>1</td></tr> <tr><td>A185-1/2x125EG</td><td>1/2</td><td>1-1/4</td></tr> </tbody> </table> <p>For all "A" and "C" series channels.</p>	Cat. No.	Bolt Dia.	Length A	A182-1/4x100EGC	1/4	1	A182-1/4x125EGC	1/4	1-1/4	A184-3/8x100EGC	3/8	1	A184-3/8x125EGC	3/8	1-1/4	A185-1/2x100EGC	1/2	1	A185-1/2x125EG	1/2	1-1/4	<p>A177 to A180 Springless Stud Nut</p>  <p>STD PACK: 100</p> <table border="1"> <thead> <tr> <th>Cat. No.</th> <th>Bolt Dia.</th> <th>Length A</th> </tr> </thead> <tbody> <tr><td>A177-1/4x100EG</td><td>1/4</td><td>1</td></tr> <tr><td>A177-1/4x125EG</td><td>1/4</td><td>1-1/4</td></tr> <tr><td>A179-3/8x100EG</td><td>3/8</td><td>1</td></tr> <tr><td>A179-3/8x125EG</td><td>3/8</td><td>1-1/4</td></tr> </tbody> </table> <p>For use with all channels.</p>	Cat. No.	Bolt Dia.	Length A	A177-1/4x100EG	1/4	1	A177-1/4x125EG	1/4	1-1/4	A179-3/8x100EG	3/8	1	A179-3/8x125EG	3/8	1-1/4	<p>812 Stud Nut</p>  <p>STD PACK: 100</p> <table border="1"> <thead> <tr> <th>Cat. No.</th> <th>For Channel</th> <th>Wt./C Lb</th> </tr> </thead> <tbody> <tr><td>812-1EG</td><td>1/4 x 1</td><td>6</td></tr> </tbody> </table> <p>For attaching fixture to channel slot down or to channel slot up knockouts. Specify length. Hex nut included.</p>	Cat. No.	For Channel	Wt./C Lb	812-1EG	1/4 x 1	6									
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A182-1/4x100EGC	1/4	1																																																			
A182-1/4x125EGC	1/4	1-1/4																																																			
A184-3/8x100EGC	3/8	1																																																			
A184-3/8x125EGC	3/8	1-1/4																																																			
A185-1/2x100EGC	1/2	1																																																			
A185-1/2x125EG	1/2	1-1/4																																																			
Cat. No.	Bolt Dia.	Length A																																																			
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Cat. No.	For Channel	Wt./C Lb																																																			
812-1EG	1/4 x 1	6																																																			
<p>CM100 Nylon Cone Nut</p>  <p>STD PACK: 100</p> <table border="1"> <thead> <tr> <th>Cat. No.</th> <th>Size</th> <th>Wt./C Lb</th> </tr> </thead> <tbody> <tr><td>CM100-1/4</td><td>1/4</td><td>8</td></tr> <tr><td>CM100-3/8</td><td>3/8</td><td>10</td></tr> <tr><td>* CM100-1/2</td><td>1/2</td><td>12</td></tr> <tr><td>** CM100B-1/2</td><td>1/2</td><td>10</td></tr> </tbody> </table> <p>GoldGalv® only For all 1-5/8" channel *Will not fit "B" Series channel **For "B" Series channel</p>	Cat. No.	Size	Wt./C Lb	CM100-1/4	1/4	8	CM100-3/8	3/8	10	* CM100-1/2	1/2	12	** CM100B-1/2	1/2	10	<p>UC100 Universal Nylon Cone Nut</p>  <p>STD PACK: 100</p> <table border="1"> <thead> <tr> <th>Cat. No.</th> <th>Size</th> <th>Wt./C Lb</th> </tr> </thead> <tbody> <tr><td>UC100-1/4</td><td>1/4</td><td>8</td></tr> <tr><td>UC100-3/8</td><td>3/8</td><td>10</td></tr> <tr><td>UC100-1/2</td><td>1/2</td><td>12</td></tr> </tbody> </table> <p>GoldGalv® only For all 1-5/8" and 1-1/2" channels May be used with ALL Strut Depths. Can be used for CM100 Series, A100 Series, B100 Series and AB100 Series.</p>	Cat. No.	Size	Wt./C Lb	UC100-1/4	1/4	8	UC100-3/8	3/8	10	UC100-1/2	1/2	12	<p>AB102 Unhardened Square Nut</p>  <p>STD PACK: 100</p> <table border="1"> <thead> <tr> <th>Cat. No.</th> <th>Size</th> <th>Wt./C Lb</th> </tr> </thead> <tbody> <tr><td>AB102-1/4</td><td>1/4</td><td>13</td></tr> <tr><td>AB102-3/8</td><td>3/8</td><td>14</td></tr> <tr><td>AB102-1/2</td><td>1/2</td><td>14</td></tr> <tr><td>AB102-5/8</td><td>5/8</td><td>12</td></tr> <tr><td>AB102-3/4</td><td>3/4</td><td>11</td></tr> <tr><td>AB102-7/8</td><td>7/8</td><td>10</td></tr> </tbody> </table>	Cat. No.	Size	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			
Cat. No.	Size	Wt./C Lb																																																			
CM100-1/4	1/4	8																																																			
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<p>E145 Standard Hex Nut</p>  <p>STD PACK: 100</p> <table border="1"> <thead> <tr> <th>Cat. No.</th> <th>Size</th> <th>Wt./C Lb</th> </tr> </thead> <tbody> <tr><td>E145-1/4EGC</td><td>1/4</td><td>.72</td></tr> <tr><td>E145-3/8EGC</td><td>3/8</td><td>1.60</td></tr> <tr><td>E145-1/2EGC</td><td>1/2</td><td>2.78</td></tr> <tr><td>E145-5/8EG</td><td>5/8</td><td>6.92</td></tr> <tr><td>E145-3/4EGC</td><td>3/4</td><td>12.70</td></tr> <tr><td>E145-7/8EGC</td><td>7/8</td><td>19.00</td></tr> <tr><td>E145-1EGC</td><td>1</td><td>28.00</td></tr> </tbody> </table>	Cat. No.	Size	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	<p>ES145 Swivel Nut and Jam Nut Combinations</p>  <p>STD PACK: 100</p> <table border="1"> <thead> <tr> <th>Cat. No.</th> <th>Size</th> <th>Wt./C Lb</th> </tr> </thead> <tbody> <tr><td>ES145-3/8</td><td>3/8</td><td>5.5</td></tr> <tr><td>ES145-1/2</td><td>1/2</td><td>6.0</td></tr> </tbody> </table>	Cat. No.	Size	Wt./C Lb	ES145-3/8	3/8	5.5	ES145-1/2	1/2	6.0	<p>E146 Standard Square Nut</p>  <p>STD PACK: 100</p> <table border="1"> <thead> <tr> <th>Cat. No.</th> <th>Size</th> <th>Wt./C Lb</th> </tr> </thead> <tbody> <tr><td>E146-1/4EG</td><td>1/4</td><td>.93</td></tr> <tr><td>E146-5/16EG</td><td>5/16</td><td>1.60</td></tr> <tr><td>E146-3/8EGC</td><td>3/8</td><td>2.65</td></tr> <tr><td>E146-1/2EG</td><td>1/2</td><td>5.83</td></tr> <tr><td>E146-5/8EG</td><td>5/8</td><td>10.80</td></tr> </tbody> </table>	Cat. No.	Size	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
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E147
Flat Steel Washer

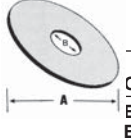


STD PACK: 100

Cat. No.	Size	Wt./C lb
E147-1/4EG	1/4	.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	A	B	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	
		1/2	2	9/16	5.0

Available in Stainless Steel.

E148
Lock Washer



STD PACK: 100

Cat. No.	Size	Wt./C lb
E148-1/4EG	1/4	.26
E148-3/8EG	3/8	.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	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	Size	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


E151
Coach Screw Rod



Cat. No.	Rod Size in.	Standard 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



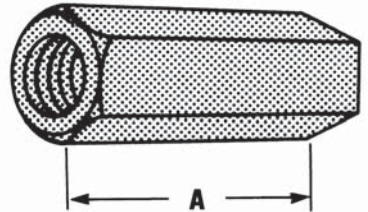
STD PACK: 3

- Black available upon request.
- Sold per foot; standard length, 10 ft
- Also available in stainless steel (304 and 316) standard length 6 ft
- National coarse thread

Cat. No.	Thread Size	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

Available in 12' Stainless Steel.

H119
Rod Couplings



Standard Rod Coupling
Example: H119-1/2EG

Rod Size	A	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

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

Rod Size	A	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

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

H122
Trapnut™ Strut Fastener

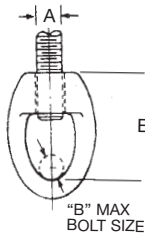
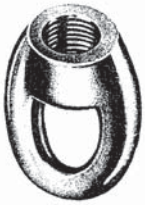


Finishes
Electrogalvanized (EG)
GoldGalv®
Stainless Steel Type 316 (SS6)



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

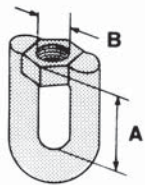
M117
Eye Socket



Rod Size	Pipe Size	B	E	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

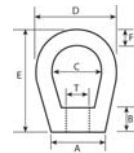
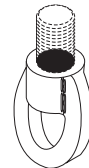


Cat. No.	Size	A	B	Wt./C lb	Design Load lb
E120-3/8	3/8	1-3/8	3/8	15	1000
E120-1/2	1/2	1-1/2	1/2	25	1800

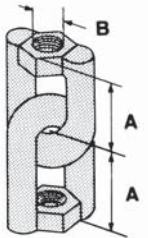
E120A
Weldless Eye Nut

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

Rod Size	A	B	C	D	E	F	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

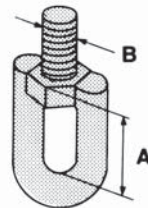


E122
Swivel Joint



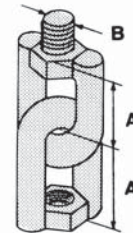
Cat. No.	Size	A	B	Wt./C lb	Design Load lb
E122-3/8	3/8	1-3/8	3/8	28	1000
E122-1/2	1/2	1-1/2	1/2	48	1800

E130
Swivel Joint



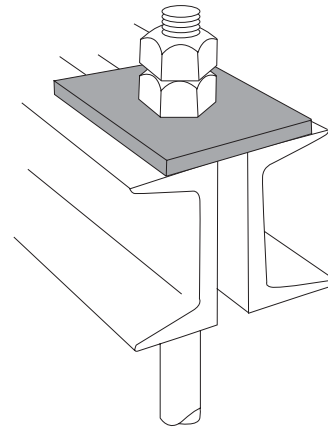
Cat. No.	Size	A	B	Wt./C lb	Design Load lb
E130-3/8	3/8	1-3/8	3/8	23	1000
E130-1/2	1/2	1-1/2	1/2	28	1800

E131
Swivel Joint



Cat. No.	Size	A	B	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

C781
Square Washer



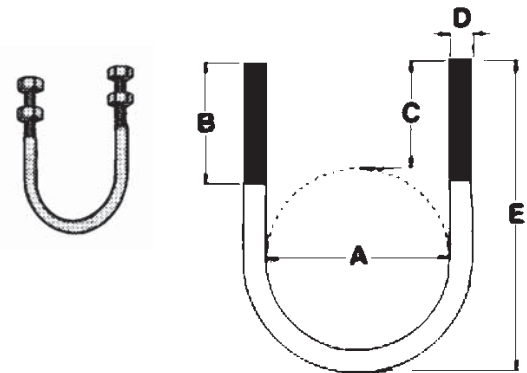
*Finishes
B
HDG
EG
SS6

**STD
PACK:
50**

Used for beam applications.
For channel applications use AB241.

Cat. No.	Rod Size	Hole Size	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

H115
Standard U-Bolt



Pipe Size	A	B	C	D	E	Wt./C lb	Design Load lb
1/2	15/16	1-3/4	1-1/2	3/8	2-3/4	13	1500
3/4	1-1/8	1-3/4	1-5/8	3/8	3-1/16	15	2000
1	1-3/8	1-7/8	1-5/8	3/8	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	3/8	5-1/8	34	4000
3	3-9/16	2	1-3/4	3/8	5-11/16	38	4000
3-1/2	4-3/32	2	1-23/32	3/8	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

For sizes 14 to 36", contact your Regional Sales Office.

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

Example: H115-1/2EG

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