ELGEN

MECHANICAL, PLUMBING & SPRINKLER CATALOG

MESSAGE FROM OUR PRESIDENT

Dear Valued Customer,

Each year as we commence upon the new year, it becomes a time of reflection, appreciation, warm memories, and happiness. While we all try to carry this theme throughout the year, for some it occasionally gets lost in our daily routine and we forget for a moment what is truly precious; family, friends, health and happiness.

We think about all we are appreciative for and our relationship with you is one. We are grateful to you for your tremendous efforts, dedication and loyalty you have shared with Capital Hardware whether just joining us as a customer or having traveled this wonderful adventure with us over the past years, you have all made Capital Hardware a thriving company.

Needless to say it's been a challenging time for all of us, COVID-19 impacted the world, our families, and friends together with, our growth plans. As a team we persevered through and made good strides in rebuilding the company's foundational basis, gained market share in other parts of the country while bringing on new team members to foster a foundation that will propel the company into the next decade.

Looking forward, we are poised to embark upon one of the most successful years for Capital. Our growth strategies and marketing plans will set us apart from our competitors while keeping our entrepreneurial spirit and unique culture intact. We are excited for the future and are ready and able to embrace this journey together with you.

In closing, we'd like to take this opportunity to thank you for your continued support and unwavering dedication, it is customers like you who make our jobs a pleasure and keep our company successful.

We are ecstatic to have you as a customer and look forward to meeting your every need!

Matthew Alberti
President Capital Hardware Supply LLC
an Elgen Manufacturing Company

MISSION STATEMENT

"At Elgen, we strive to make high quality products at extremely competitive prices for the sheet metal fabricators and installers who are installing our ductwork in homes, buildings, hospitals, and entertainment centers around the world."

Our Products

We are dedicated to bringing new and creative ides to the market place, adhering to high design standard, and ensuring product quality.

Our Service

We have a team committed to assessing our entire work flow, from order entry to invoicing. We are constantly evaluating this process, making improvements when necessary to keep up with the market trends.

Our Values

At Elgen, we govern ourselves by our morals, ethics, and character. As a team, our integrity produces a harmonious and a very successful work environment. These traits have guided our everyday practices for over 50 years.

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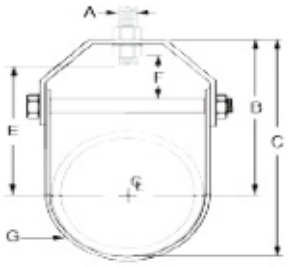
• Sizes 1/2" - 4"
• Finish - Electro - Galvanized & Plain
• MTO

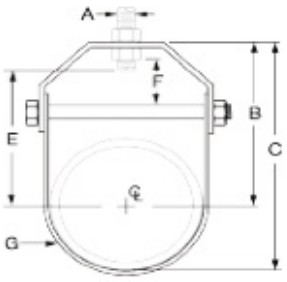


Light Duty Clevis Hanger: Loads: (LBS) * Weights (LBS) * Dimensions (IN)

Item #	Size	Max Load	Weight	A Rod Size	B	C	E Rod Take Out	F Adjustment	G Width Lower
*MEC-CLEVISEGL-12	1/2"	200	0.017	3/8"	1-5/8"	2-1/8"	1-1/2"	5/8"	1/4"
*MEC-CLEVISEGL-34	3/4"	200	0.022	3/8"	1-3/4"	2-3/8"	1-5/16"	5/8"	1/4"
*MEC-CLEVISEGL-1	1"	300	0.022	3/8"	2-1/16"	2-3/4"	1-5/8"	5/8"	1/4"
*MEC-CLEVISEGL-114	1-1/4"	300	0.029	3/8"	2-3/8"	3-5/16"	1-11/16"	5/8"	1/4"
*MEC-CLEVISEGL-112	1-1/2"	300	0.03	3/8"	2-15/16"	3-15/16"	2-1/8"	7/8"	1/4"
*MEC-CLEVISEGL-2	2"	300	0.034	3/8"	3-1/4"	4-1/2"	2-5/8"	1-1/8"	1/4"
*MEC-CLEVISEGL-212	2-1/2"	400	0.068	1/2"	3-1/4"	5-1/4"	3-3/16"	1-5/16"	3/8"
*MEC-CLEVISEGL-3	3"	400	0.072	1/2"	4-1/8"	6"	4-1/16"	1-5/8"	3/8"
*MEC-CLEVISEGL-312	3-1/2"	450	0.08	1/2"	4-7/16"	6-1/2"	4-3/16"	1-13/16"	3/8"
*MEC-CLEVISEGL-4	4"	550	0.097	5/8"	5-3/8"	7-3/4"	4-1/2"	1-11/16"	3/8"

Clevis Hangers - Light Duty - Copper

• Maximum Temperature Plain 650DEG F, Galvanized 450DEG F
• Conforms with Federal Specification WW-H-171 (Type 1) Manufacturers Standardization Society (MSS) SP-69 (Type 1)
• Sizes 1/2" - 4"
• Finish - Copper

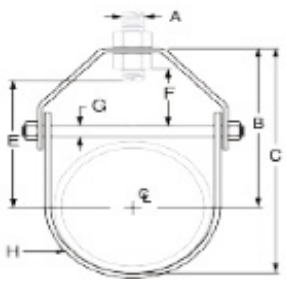


Light Duty Clevis Hanger: Loads: (LBS) * Weights (LBS) * Dimensions (IN)

Item #	Size	Max Load	Weight	A Rod Size	B	C	E Rod Take Out	F Adjustment
MCLCP-12	1/2"	150	0.09	3/8"	1-15/16"	2-1/4"	1-1/8"	3/8"
MCLCP-34	3/4"	150	0.10	3/8"	1-1/2"	1-15/16"	1-1/8"	7/16"
MCLCP-1	1"	250	0.14	3/8"	1-3/4"	2-5/16"	1-5/16"	9/16"
MCLCP-114	1-1/4"	250	0.15	3/8"	2-1/16"	2-3/4"	1-9/16"	9/16"
MCLCP-112	1-1/2"	250	0.015	3/8"	2-7/16"	3-5/16"	2-1/16"	15/16"
MCLCP-2	2"	250	0.017	3/8"	3-7/16"	4-1/2"	3-3/8"	1-3/4"
MCLCP-212	2-1/2"	350	0.028	3/8"	4-1/2"	5-11/16"	3-15/16"	2-1/8"
MCLCP-3	3"	350	0.57	3/8"	3-5/8"	5-3/16"	4"	2-1/16"
MCLCP-4	4"	400	0.73	3/8"	3-5/16"	7-3/8"	3-3/8"	2-1/8"

Clevis Hangers - Standard Duty

• Maximum Temperature Plain 650DEG F, Galvanized 450DEG F
• Conforms with Federal Specification WW-H-171 (Type 1) Manufacturers Standardization Society (MSS) SP-69 (Type 1)
• Sizes 1/2" - 24"
• Finish - Electro -Galvanized



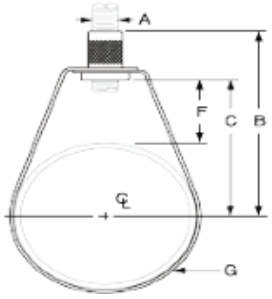
Clevis Hanger: Loads: (LBS) * Weights (LBS) * Dimensions (IN)

Item #	Size	Max Load	Weight	A Rod Size	B	C	E Rod Take Out	F Adjustment	G	H Width Lower
MCLEG12	1/2"	610	0.31	3/8"	1-5/8"	2-1/8"	1-1/2"	5/8"	1/4"	1"
MCLEG-34	3/4"	610	0.33	3/8"	1-3/4"	2-3/8"	1-5/16"	5/8"	1/4"	1"
MCLEG-1	1"	610	0.34	3/8"	2-1/16"	2-3/4"	1-5/8"	5/8"	1/4"	3/4"
MCLEG-114	1-1/4"	610	0.41	3/8"	2-3/8"	3-5/16"	1-11/16"	5/8"	1/4"	1"
MCLEG-112	1-1/2"	610	0.43	3/8"	2-15/16"	3-15/16"	2-1/8"	7/8"	1/4"	1"
MCLEG-2	2"	610	0.53	3/8"	3-1/4"	4-1/2"	2-5/8"	1-1/8"	1/4"	1"
MCLEG-212	2-1/2"	1130	0.74	1/2"	3-3/4"	5-1/4"	3-3/16"	1-5/16"	3/8"	1"
MCLEG-3	3"	1130	0.99	1/2"	4-1/8"	6"	4-1/16"	1-5/8"	3/8"	1"
MCLEG-312	3-1/2"	1130	0.91	1/2"	4-7/16"	6-1/2"	4-3/16"	1-13/16"	3/8"	1-1/4"
MCLEG-4	4"	1130	1.43	5/8"	5-3/8"	7-3/4"	4-1/2"	1-11/16"	3/8"	1-1/4"
MCLEG-5	5"	1430	1.62	5/8"	6-13/16"	9-3/4"	5-1/2"	1-15/16"	3/8"	1-3/16"
MCLEG-6	6"	1940	3.26	3/4"	8-1/4"	11-3/4"	5-3/4"	1-11/16"	1/2"	1-7/16"
MCLEG-8	8"	2000	4.39	3/4"	9-1/2"	14"	7-3/16"	2"	1/2"	1-7/16"
MCLEG-10	10"	3600	8.64	7/8"	10-7/8"	16-1/2"	8-7/16"	2-1/8"	5/8"	1-3/4"
MCLEG-12	12"	3800	11.32	7/8"	12"	18-5/8"	10-1/8"	2-13/16"	5/8"	2"
MCLEG-14	14"	4200	15.05	1"	14-1/2"	21-3/4"	10-11/16"	2-11/16"	3/4"	2"
MCLEG-16	16"	4600	21.00	1"	15-3/4"	23-3/4"	12"	2-3/4"	1"	2-1/2"
MCLEG-18	18"	4800	25.00	1-1/8"	16-1/2"	25-1/2"	13-15/16"	3-1/2"	1"	2-1/2"
MCLEG-20	20"	4800	42.50	1-1/4"	18"	28"	16-1/8"	4-1/8"	1-1/4"	3"
MCLEG-24	24"	4800	43.5	1-1/4"	20-1/4"	32-1/4"	18-3/8"	4-3/4"	1-1/4"	3"

PIPE HANGERS

Loop Hangers - Nominal Pipe Size Loop Hangers

• Complied with Federal Specification A-A-1192A (Type 10) and MSS SP-69 (Type 10)
• NFPA standards for reduced rod sizes for Electro Galvanized only
• UL Approvel for use with CPVC Pipe
• Sizes: 1/2" - 8"
• Finish - Electro-Galvanized & Black Vinyl Coating
• All item #'s with * are MTO

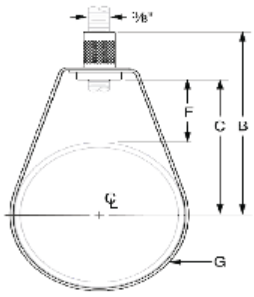


Loop Hanger: Loads: (LBS) * Weights (LBS) * Dimensions (IN)

Item #	Pipe Size	Max Load	Weight	A Rod Size	B	C	F	G Width
*MEC-LOOP12	1/2"	300	0.10	3/8"	2-7/16"	1-7/16"	1-1/16"	5/8"
*MEC-LOOP34	3/4"	300	0.10	3/8"	2-11/16"	1-11/16"	1-1/8"	5/8"
MEC-LOOP1	1"	300	0.10	3/8"	2-13/16"	1-13/16"	1-1/8"	5/8"
*MEC-LOOP114	1-1/4"	300	0.11	3/8"	2-7/8"	1-7/8"	1-1/16"	5/8"
MEC-LOOP112	1-1/2"	300	0.11	3/8"	3"	2"	1-1/16"	5/8"
MEC-LOOP2	2"	300	0.14	3/8"	3-3/16"	2-3/16"	1-1/16"	5/8"
MEC-LOOP212	2-1/2"	300	0.19	3/8"	4-9/16"	3-5/16"	1-7/8"	7/8"
MEC-LOOP3	3"	1000	0.23	3/8"	5"	3-3/4"	2"	7/8"
*MEC-LOOP312	3-1/2"	1000	0.23	1/2"	5"	3-3/4"	2"	7/8"
MEC-LOOP4	4"	1000	0.30	3/8"	6"	4-11/16"	2-3/8"	7/8"
*MEC-LOOP5	5"	1000	0.50	1/2"	6-1/2"	5-1/4"	2-7/16"	3/4"
*MEC-LOOP6	6"	1250	0.58	1/2"	7-3/4"	6-3/16"	2-7/8"	3/4"
*MEC-LOOP8	8"	1250	0.90	1/2"	9-5/16"	7-11/16"	3-3/8"	7/8"

Loop Hangers - Copper Tube Size Band Hanger

• Complied with Federal Specification A-A-1192A (Type 10) and MSS SP-69 (Type 10)
• Sizes: 1/2" - 4"
• Finish - Copper
• All item #'s with * are MTO



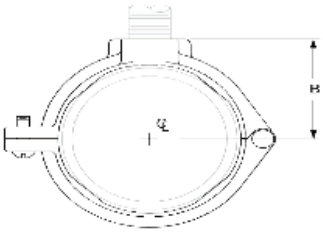
Loop Hanger: Loads: (LBS) * Weights (LBS) * Dimensions (IN)

Item #	Tube Size	Max Load	Weight	B	C	F	G Width	G Width
*MLOOP-12	1/2"	180	0.11	2-7/16"	2"	1-11/16"	5/8"	5/8"
*MLOOP-34	3/4"	180	0.11	2-11/16"	1-13/16"	1-3/8"	5/8"	5/8"
MLOOP-1	1"	180	0.12	2-9/16"	1-11/16"	1-1/8"	5/8"	5/8"
*MLOOP-114	1-1/4"	180	0.13	2-1/2"	1-5/8"	1-5/16"	5/8"	5/8"
MLOOP-112	1-1/2"	180	0.14	2-13/16"	1-15/16"	1-1/8"	5/8"	5/8"
MLOOP-2	2"	180	0.16	2-3/4"	1-7/8"	7/8"	5/8"	5/8"
MLOOP-212	2-1/2"	200	0.33	3-1/8"	2-1/4"	1-5/16"	7/8"	7/8"
MLOOP-3	3"	250	0.35	4-1/8"	3-1/4"	1-11/16"	7/8"	7/8"
*MLOOP-312	3-1/2"	300	0.40	4-9/16"	3-11/16"	1-11/16"	7/8"	7/8"
MLOOP-4	4"	360	0.52	5-1/16"	4-3/16"	2-1/8"	7/8"	7/8"

PIPE HANGERS

Split Ring Hangers - Hinged

• Conforms with Federal Specification WW-H-171 (Type 25) Manufacturers Standardization Society (MSS) SP-58 and SP-69 (Type 12)
• Sizes: 1/2" - 4"
• Finish - Electro-Galvanized

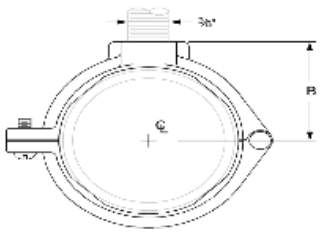


Hinged Split Ring: Loads: (LBS) * Weights (LBS) * Dimensions (IN)

Item #	Tube Size	Rod Size	Max Load	Weight	B
MEC-SPLITHANGEG-12	1/2"	3/8"-16	300	0.13	7/8"
MEC-SPLITHANGEG-34	3/4"	3/8"-16	300	0.15	1-1/16"
MEC-SPLITHANGEG-1	1"	3/8"-16	300	0.17	1-1/8"
MEC-SPLITHANGEG-114	1-1/4"	3/8"-16	300	0.28	1-1/4"
MEC-SPLITHANGEG-112	1-1/2"	3/8"-16	300	0.29	1-7/16"
MEC-SPLITHANGEG-2	2"	3/8"-16	300	0.32	1-5/8"
MEC-SPLITHANGEG-212	2-1/2"	1/2"-13	600	0.39	2-1/8"
MEC-SPLITHANGEG-3	3"	1/2"-13	600	0.48	2-7/16"
MEC-SPLITHANGEG-4	4"	1/2"-13	600	1.06	2-7/8"

Split Ring Hangers - Hinged Copper

• Conforms with Federal Specification WW-H-171 (Type 25) Manufacturers Standardization Society (MSS) SP-58 and SP-69 (Type 12)
• Sizes: 1/2" - 4"
• Finish - Copper



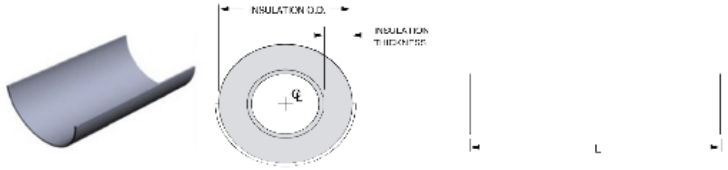
Hinged Copper Split Ring: Loads: (LBS) * Weights (LBS) * Dimensions (IN)

Item #	Tube Size	Rod Size	Max Load	Weight	B
MSHPC-12	1/2"	3/8"-16	300	0.13	7/8"
MSHPC-34	3/4"	3/8"-16	300	0.15	1-1/16"
MSHPC-1	1"	3/8"-16	300	0.17	1-1/8"
MSHPC-114	1-1/4"	3/8"-16	300	0.28	1-1/4"
MSHPC-112	1-1/2"	3/8"-16	300	0.29	1-7/16"
MSHPC-2	2"	3/8"-16	300	0.32	1-5/8"
MSHPC-212	2-1/2"	1/2"-13	600	0.39	2-1/8"
MSHPC-3	3"	1/2"-13	600	0.48	2-7/16"
MSHPC-4	4"	1/2"-13	600	1.06	2-7/8"

PIPE HANGERS

Insulation Shield

• Complies with Federal Specification A-A-1192A (Type 40) WW-H-171-E (Type 41), ANSI/MSS SP-69 and MSS SP-58 (Type 40)
• Range - 1/2" - 30" Pipe with up to 2" thick insulation and 8" Pipe with 1" thick insulations
• Finish - Electro-Galvanized

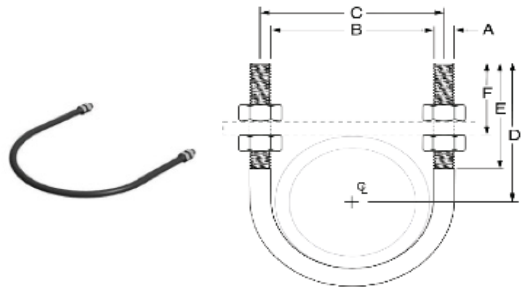


Insulation Shield: Weights (LBS) * Dimensions (IN)

Item #	Shield Size	Stock Size
MSHLD-4	4"	18GA
MSHLD-5	5"	18GA
MSHLD-6	6"	18GA
MSHLD-8	8"	18GA
MSHLD-10	10"	18GA
MSHLD-12	12"	18GA
MSHLD-14	14"	18GA
MSHLD-16	18"	16GA
MSHLD-18	20"	16GA
MSHLD-20	24"	16GA

U-Bolt

• Conforms with Fed. Spec. WW-H-171E (Type 24) & MSS SP-69 (Type 24)
• Range - 1/2" - 24"
• Finish - Electro-Galvanized
• MTO

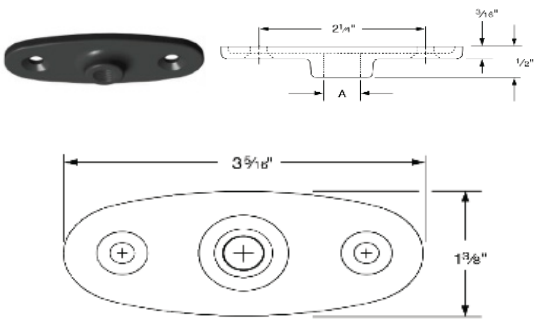


U-Bolts: Loads (LBS) * Weights (LBS) * Dimensions (IN)

Item #	Pipe Size	Max Load	Weight	A Rod Size	B	C	D	E	F
MEC-UBOLT12	1/2"	580	0.10	1/4"	15/16"	1-3/16"	2-3/4"	2-1/8"	2-5/16"
MEC-UBOLT34	3/4"	580	0.10	1/4"	1-1/8"	1-3/8"	2-3/4"	2-1/8"	2-7/32"
MEC-UBOLT1	1"	580	0.11	1/4"	1-3/8"	1-5/8"	2-3/4"	2-1/8"	2-7/32"
MEC-UBOLT114	1-1/4"	1,460	0.28	3/8"	1-11/16"	2-1/16"	2-7/8"	2-1/8"	2-1/31"
MEC-UBOLT112	1-1/2"	1,460	0.30	3/8"	2"	2-3/8"	3"	2-1/2"	2-1/16"
MEC-UBOLT2	2"	1,460	0.32	3/8"	2-7/16"	2-13/16"	3-1/4"	2-1/2"	2-1/16"
MEC-UBOLT212	2-1/2"	2,700	0.71	1/2"	2-15/16"	3-7/16"	3-3/4"	3"	2-5/16"
MEC-UBOLT3	3"	2,700	0.78	1/2"	3-9/16"	4-1/16"	4"	3"	2-1/4"
MEC-UBOLT312	3-1/2"	2,700	0.85	1/2"	4-1/16"	4-9/16"	4-1/4"	3"	2-1/4"
MEC-UBOLT4	4"	2,700	0.90	1/2"	4-9/16"	5-1/16"	4-1/2"	3"	2-1/4"
MEC-UBOLT5	5"	2,700	1.00	1/2"	5-5/8"	6-1/8"	5"	3"	2-7/32"
MEC-UBOLT6	6"	4,320	1.95	5/8"	6-3/4"	7-3/8"	6-1/8"	3-3/4"	2-13/16"
MEC-UBOLT8	8"	4,320	2.30	5/8"	8-3/4"	9-3/8"	7-1/8"	3-3/4"	2-13/16"
MEC-UBOLT10	10"	6,460	4.05	3/4"	10-7/8"	11-5/8"	8-3/8"	4"	3"
MEC-UBOLT12	12"	9,960	6.45	7/8"	12-7/8"	13-3/4"	9-5/8"	4"	3-1/4"
MEC-UBOLT14	14"	9,960	7.85	7/8"	14-1/8"	15"	10-1/4"	4-1/4"	3-1/4"
MEC-UBOLT16	16"	9,960	8.70	7/8"	16-1/8"	17"	11-1/4"	4-1/4"	3-1/4"
MEC-UBOLT18	18"	11,800	12.95	1"	18-1/8"	19-1/8"	12-5/8"	4-3/4"	3-5/8"
MEC-UBOLT20	20"	11,800	14.00	1"	20-1/8"	21-1/8"	21-1/8"	4-3/4"	3-5/8"
MEC-UBOLT24	24"	11,800	16.00	1"	24-1/8"	25-1/8"	25-1/8"	4-3/4"	3-5/8"

Ceiling Flange

• Structural attachment to support hanger rod from ceiling or a wall
• Range - 3/8"
• Finish - Electro-Galvanized



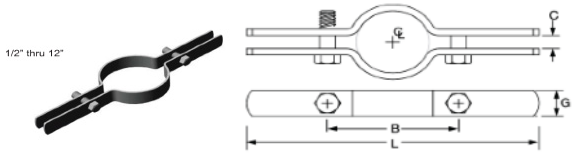
U-Bolts: Loads (LBS) * Weights (LBS) * Dimensions (IN)

Item #	A Rod Size	Max Load	Weight	Screws QTY	Screws Size No.
MCFL-38	3/8"	180	1.60	2	12

PIPE HANGERS

Riser Clamps

• Complies with Federal Specification A-A-1192A (Type 8) ANSI/SP 69 and SP-58 (Type 8)
• Range - 1/2" - 24"

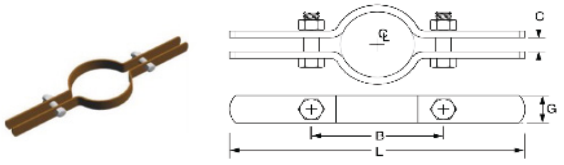


Insulation Shield: Weights (LBS) * Dimensions (IN)

Item #	Tube Size	Max Load	Weight	L	G Width	B	C	Bolt Size	Torque Values
MRCLP-12	1/2"	220	0.80	9"	1"	2-1/8"	3/8"	3/8"	19
MRCLP-34	3/4"	220	0.80	9"	1"	2-7/8"	3/8"	3/8"	19
MRCLP-1	1"	220	1.04	9"	1"	3-1/8"	3/8"	3/8"	19
MRCLP-114	1-1/4"	250	1.06	9-1/4"	1"	3-1/2"	3/8"	3/8"	19
MRCLP-112	1-1/2"	250	1.08	10"	1-3/16"	3-7/8"	3/8"	3/8"	19
MRCLP-2	2"	300	1.16	10-1/4"	3/16"	4-1/4"	1/2"	3/8"	19
MRCLP-212	2-1/2"	400	1.32	11"	1-3/16"	4-3/4"	1/2"	3/8"	19
MRCLP-3	3"	500	1.56	11-3/4"	1-3/16"	5-1/2"	1/2"	3/8"	19
MRCLP-4	4"	750	1.70	13"	1"	7"	1/2"	1/2"	50
MRCLP-5	5"	1,500	3.45	14"	1-7/16"	8"	1/2"	1/2"	50
MRCLP-6	6"	1,600	3.70	15-1/4"	1-1/2"	9"	1/2"	1/2"	50
MRCLP-8	8"	2,500	7.40	18-1/4"	1-1/2"	12"	5/8"	5/8"	50
MRCLP-10	10"	2,500	11.00	20"	2"	13-3/4"	5/8"	5/8"	65

Riser Clamps - Copper

• Conforms with Fed. Spec. WW-H-171E (Type 24) & MSS SP-69 (Type 24)
• Range - 1/2" - 24"
• Finish - Electro-Galvanized
• MTO



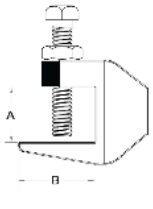
U-Bolts: Loads (LBS) * Weights (LBS) * Dimensions (IN)

Item #	Tube Size	Max Load	Weight	L	G Width	Bolt Size	Torque Values
MRCLP12	1/2"	75	0.63	9"	1-3/16"	3/8"	19
MRCPC-34	3/4"	75	0.65	9"	1-3/16"	3/8"	19
MRCPC-1	1"	120	0.70	9"	1-3/16"	3/8"	19
MRCPC-114	1-1/4"	120	0.72	9"	1-3/16"	3/8"	19
MRCPC-112	1-1/2"	150	1.08	10"	1-3/16"	3/8"	19
MRCPC-2	2"	150	1.19	10-1/4"	1-3/16"	3/8"	19
MRCPC-212	2-1/2"	300	1.23	11"	1-3/16"	3/8"	19
MRCPC-3	3"	300	1.34	11-3/4"	1-3/16"	3/8"	19
MRCPC-4	4"	300	1.71	12-1/2"	1-1/4"	3/8"	50

BEAM CLAMPS

Small Mouth

• Complies with Federal Specification A-A-1192A (Type 19) and MSS SP-69 (Type 19)
• Range - 3/8" - 3/4"
• Finish - Electro-Galvanized

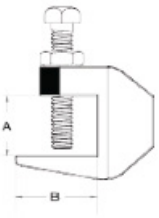


Small Mouth Beam Clamps: Weights (LBS) * Dimensions (IN) * Loads (LBS)

Item #	Rod Size	Max Load Top	Max Load Bottom	Weight	Opening A	B	W
BC0061	3/8"	500	250	0.33	3/4"	1-1/16"	7/8"
BC0131	1/2"	950	760	0.34	3/4"	1-1/16"	1-1/16"
BC0181	5/8"	950	760	0.39	3/4"	1-1/8"	1-1/16"
BC0191	3/4"	950	760	0.63	3/4"	1-1/8"	1-1/16"

Large Mouth

• Complies with Federal Specification A-A-1192A (Type 19) and MSS SP-69 (Type 19)
• Range - 3/8" - 3/4"
• Finish - Electro-Galvanized

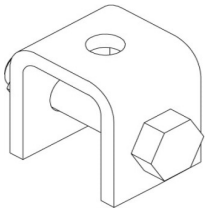


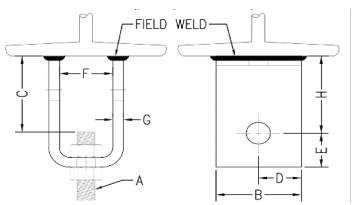
Large Mouth Beam Clamps: Weights (LBS) * Dimensions (IN) * Loads (LBS)

Item #	Rod Size	Max Load Top	Max Load Bottom	Weight	Opening A	B	W
BC0066	3/8"	500	250	0.37	1-1/4"	1-1/4"	7/8"
BC0134	1/2"	950	760	0.35	1-1/4"	1-5/16"	1-1/16"

Welded Beam Clamps

• Complies with Federal Specification A-A-1192A (Type 22) and Manufacturers' Standardization Society ANSI/MSS SP-58 (Type 22) which spersedes ANSI/MS SP-69
• Desigend to attach rod to the bottom flange of a beam
• Can be vertically adjusted, otherwise nut and bolt are required





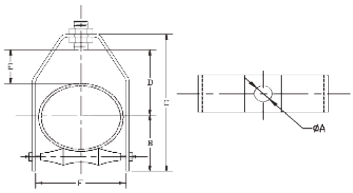
Rod Size A	B	C	D	E	F	G
3/8"	2"	1-7/8"	1"	7/8"	1-1/4"	3 ga.
1/2"	2"	1-3/4"	1"	7/8"	1-1/4"	3 ga.
5/8"	2"	1-3/4"	1"	7/8"	1-1/4"	3 ga.
3/4"	2-1/2"	2"	1-1/4"	1-1/4"	2-1/4"	3/8"
7/8"	2-1/2"	3"	1-1/4"	1-1/4"	2-3/8"	3/8"
1"	3"	3"	1-1/2"	1-1/2"	2-3/4"	1/2"
1-1/8"	3"	3"	1-1/2"	1-3/4"	3"	1/2"
1-1/4"	4"	3-1/2"	2"	2"	3-1/2"	5/8"
1-1/2"	5"	4"	2-1/2"	2-1/2"	3"	3/4"
1-3/4"	5"	5"	2-1/2"	2-3/4"	3-3/4"	3/4"
2"	6"	5-1/4"	3"	3-3/4"	3-3/4"	3/4"

Rod Size A	H	Bolt or Pin Size	Max. Rec. Load				Wt. Each			
			650DEG F (343DEG C)		750DEG F (399DEG C)		Fig 1		Fig 2	
			lbs.	kN	lbs.	kN	lbs	kg	lbs	kg
3/8"	2"	1/2x2-1/2	730	3.25	572	2.54	0.87	0.39	1.13	0.51
1/2"	2"	5/8x2-1/2	1350	6.01	1057	4.7	0.85	0.39	1.28	0.58
5/8"	2"	3/4x2-1/2	2160	9.61	1692	7.52	0.84	0.38	1.5	0.68
3/4"	2"	7/8x4	3230	14.37	2530	11.25	2	0.91	3.04	1.38
7/8"	3"	1x4-1/2	4480	19.39	3508	15.61	2.5	1.13	4.02	1.82
1"	3"	1-1/8x5	5900	26.24	4620	20.55	4.14	1.88	6.3	2.86
1-1/8"	3"	1-1/4x5	7450	33.14	5834	25.95	4.37	1.98	7.15	3.24
1-1/4"	3"	1-3/8x6-1/2	9500	42.26	7440	33.09	8.5	3.86	12.62	5.72
1-1/2"	4"	1-5/8x6	13800	61.39	10807	48.07	16.41	7.44	23.23	10.54
1-3/4"	5"	1-7/8x7	18600	82.74	14566	64.79	18.7	8.48	24.2	10.98
2"	5"	2-1/4x7	24600	109.43	19265	85.7	22.8	10.34	30.6	13.88

PIPE ROLLERS

Clevis Roller Hanger

• Conforms with Federal Specification A-A-1192A (Type 41/43) W-W-171-E (Type 42/44), Manufacturers Standardization Society (MSS) SP-58 and SP-69 (Type 41/43)
• Finish - Electro-Galvanized
• Maximum Temperature 450DEG F
• Sizes - 4" - 24"

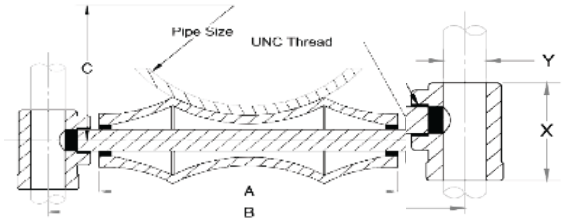


Clevis Roller Hanger: Weights (LBS) * Dimensions (IN) * Loads (LBS)

Item #	Size	Max Load	Weight	A	B	C	D	E	F
MCLRO-4E	4"	475	3.44	5/8-11	2-3/4"	7-7/8"	4"	2"	4-7/8"
MCLRO-5E	5"	685	6.00	5/8-11	3-3/8"	9-3/16"	4-9/16"	2"	5-15/16"
MCLRO-6E	6"	780	8.00	3/4-10	3-15/16"	10-3/8"	5-1/16"	2"	7"
MCLRO-8E	8"	780	13.00	3/4-10	5-1/16"	12-5/8"	6-1/16"	2"	9"
MCLRO-10	10"	965	16.00	7/8-9	6-1/4"	14-15/16"	7-3/16"	2-1/16"	11-1/8"
MCLRO-12	12"	1,200	26.00	7/8-9	7-3/8"	17-3/8"	8-3/8"	2-1/4"	13-3/8"
MCLRO-14	14"	1,200	34.00	1-8	8-1/4"	19"	8-3/4"	2-1/4"	14-1/2"
MCLRO-16	16"	1,200	39.00	1-8	9-1/4"	20-3/4"	9-3/4"	2"	16-3/8"
MCLRO-18	18"	1,400	49.00	1-8	10-3/8"	23-11/16"	11-7/16"	2-11/16"	18-3/8"
MCLRO-20	20"	1,600	66.86	1-1/4-7	11-1/2"	25-7/8"	12-1/4"	2-1/2"	20-3/8"
MCLRO-24	24"	1,800	116.30	1-1/2-6	13-13/16"	31-9/16"	15"	15"	24-5/8"

Two Rod Roller

• Conforms with Federal Specification A-A-1192A (Type 41/43) W-W-171-E (Type 42/44), Manufacturers Standardization Society (MSS) SP-58 and SP-69 (Type 41/43)
• Finish - Electro-Galvanized
• Maximum Temperature 450DEG F
• Sizes - 4" - 30"



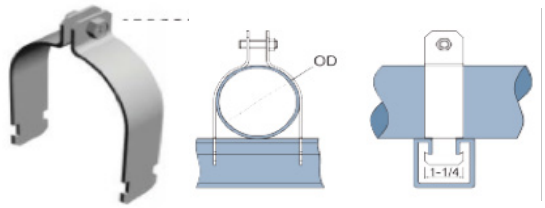
Two Rod Roller W/Axel: Weights (LBS) * Dimensions (IN) * Loads (LBS)

Item #	Size	Max Load	Weight	A	B	C	X	Hanger Rod Y
MCLRO-4	4"	750	1.88	4-3/4"	6-11/16"	2-7/8"	1-1/4"	1/2"
MCLRO-5	5"	750	2.46	5-3/4"	7-15/16"	3-1/2"	1-9/16"	5/8"
MCLRO-6	6"	1,070	5.04	6-7/8"	9-9/16"	4"	1-9/16"	5/8"
MCLRO-8	8"	1,350	6.58	8-7/8"	12"	5-1/4"	1-13/16"	3/4"
MTROD-10	10"	1,730	8.49	11"	14"	6-5/16"	2-1/8"	7/8"
MTROD-12	12"	2,400	12.00	13"	15-3/4"	7-1/2"	2-1/8"	7/8"
MTROD-14	14"	3,130	22.89	14-1/4"	17-5/8"	8-3/8"	2-1/8"	7/8"
MTROD-16	16"	3,970	24.97	16-1/4"	19-5/16"	9-7/16"	2-1/4"	1"
MTROD-18	18"	4,200	28.99	18-1/4"	21-5/16"	10-7/16"	2-1/4"	1"
MTROD-20	20"	4,550	36.37	20-1/4"	24-1/8"	11-1/2"	3"	1-1/4"
MTROD-24	24"	6,160	56.64	24-1/4"	28-3/8"	13-15/16"	3-3/8"	1-1/2"
MTROD-30	30"	7,290	94.37	30-7/16"	35-3/8"	17-5/16"	3-3/8"	1-1/2"

STRUT CLAMPS

Rigid Pipe Clamp

- Finish - Electro-Zinc Plated
- Maximum Temperature 450DEG F
- Sizes - 1/2" - 8"

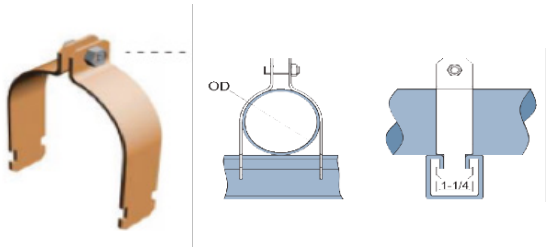


Rigid Pipe Clamp: Weights (LBS) * Dimensions (IN) * Loads (LBS)

Item #	Nom Pipe Size	Max Load	Weight	O.D.
MSTRP-12	1/2"	400	0.40	0.840
MSTRP-34	3/4"	600	0.47	1.050
MSTRP-1	1"	600	0.40	1.315
MSTRP-114	1-1/4"	600	0.47	1.660
MSTRP-112	1-1/2"	800	0.40	1.900
MSTRP-2	2"	800	0.47	2.375
MSTRP-212	2-1/2"	800	0.40	2.875
MSTRP-3	3"	800	0.47	3.500
MSTRP-314	3-1/4"	1,000	0.40	4.000
MSTRP-4	4"	1,000	0.47	4.500
MSTRP-5	5"	1,000	0.62	5.563
MSTRP-6	6"	1,000	0.62	6.625
MSTRP-8	8"	1,000	0.80	8.625

Copper Tube Clamp

- Finish - Copper
- Sizes - 1/4" - 4"

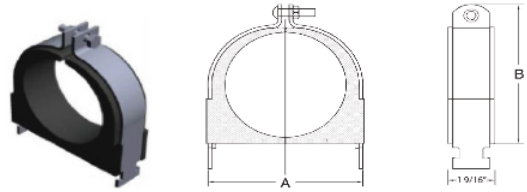


Copper Tube Clamp: Weights (LBS) * Dimensions (IN) * Loads (LBS)

Item #	Nom Pipe Size	Max Load	Weight	O.D.
MCOPCL-12	1/2"	400	0.08	5/8"
MCOPCL-34	3/4"	400	0.09	7/8"
MCOPCL-1	1"	600	0.13	1-1/8"
MCOPCL-114	1-1/4"	600	0.15	1-3/8"
MCOPCL-112	1-1/2"	600	0.16	1-5/8"
MCOPCL-2	2"	800	0.28	2-1/8"
MCOPCL-212	2-1/2"	800	0.33	2-5/8"
MCOPCL-3	3"	800	0.38	3-1/8"
MCOPCL-4	4"	1,000	0.58	4-1/8"

Cushion Clamp

- Finish - Yellow Di-Chromate
- Sizes - 3/8"-4-1/8"
- Temperature Range - -65DEG F - 275DEG F



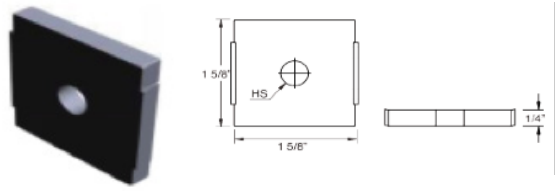
Cushion Clamp: Weights (LBS) * Dimensions (IN) * Loads (LBS)

Item #	Copper Tube Size O.D.	Max Load	Weight	I.D.	A	B
MCUYZ-38	3/8"	400	0.11	0.34	0.85	1.16
MCUYZ-12	1/2"	400	0.13	0.53	0.97	1.37
MCUYZ-58	5/8"	400	0.14	0.60	1.05	1.54
MCUYZ-34	3/4"	600	0.14	0.78	1.23	1.71
MCUYZ-78	7/8"	600	0.15	1.15	1.30	1.89
MCUYZ-118	1-1/8"	600	0.18	1.08	1.52	2.14
MCUYZ-138	1-3/8"	600	0.20	1.31	1.80	2.31
MCUYZ-158	1-5/8"	600	0.25	1.65	2.10	2.63
MCUYZ-218	2-1/8"	800	0.46	2.05	2.71	3.31
MCUYZ-258	2-5/8"	800	0.51	2.51	3.17	3.90
MCUYZ-318	3-1/8"	800	0.60	3.01	3.66	4.43
MCUYZ-418	4-1/8"	1,000	0.94	4.02	4.85	5.68

STRUT FITTINGS

Strut Saddle Washers

- Finish - Electro-Galvanized
- All items with * are MTO

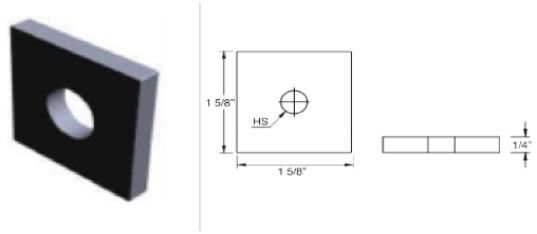


Strut Saddle Washer: Weights (LBS) * Dimensions (IN)

Item #	HS	Size	Weight
WA1020-C	3/8"	7/16"	0.08
WA1030-C	1/2"	9/16"	0.10
WA1020-58	5/8"	11/16"	0.20
*WA1020-34	3/4"	13/16"	0.20

Strut Square Washers

- Finish - Electro-Galvanized
- All items with * are MTO

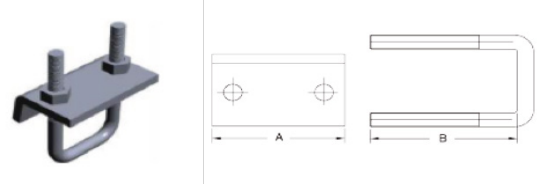


Strut Square Washers: Weights (LBS) * Dimensions (IN)

Item #	HS	Bolt Size	Weight
WA1010	3/8"	7/16"	0.08
WA1000	1/2"	9/16"	0.10
*WA1010-58	5/8"	11/16"	0.20
*WA1010-34	3/4"	13/16"	0.20
*WA1010-78	7/8"	15/16"	0.20

Channel to Beam Strut Clamp

- Finish - Electro-Galvanized



Channel To Beam Strut Clamps: Weights (LBS) * Dimensions (IN)

Item #	A	B	Weight
MEC-CHANBEAMCLAM-3	3"	3-3/8"	0.70
MEC-CHANBEAMCLAM-5	3"	5"	0.78

STRUT FITTINGS

2 Hole Splice Plate

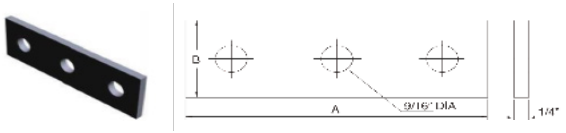
- Finish - Electro-Galvanized
- MTO

2 Hole Splice Plate: Weights (LBS) * Dimensions (IN)

A	B	Weight
3-1/4"	1-5/8"	0.35

3 Hole Splice Plate

- Finish - Electro-Galvanized
- MTO

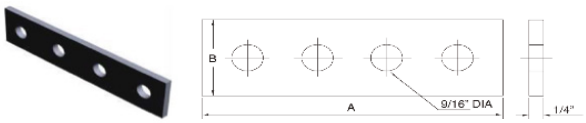


3 Hole Splice Plate: Weights (LBS) * Dimensions (IN)

A	B	Weight
5-3/8"	1-5/8"	0.56

4 Hole Splice Plate

- Finish - Electro-Galvanized
- MTO

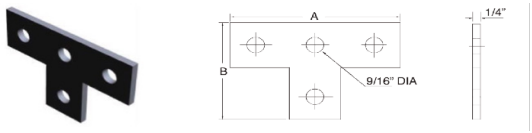


4 Hole Splice Plate: Weights (LBS) * Dimensions (IN)

A	B	Weight
7-1/4"	1-5/8"	0.78

Four Hole Tee

- Finish - Electro-Galvanized
- MTO

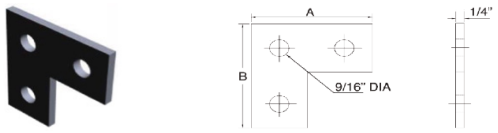


Four Hole Tee: Weights (LBS) * Dimensions (IN)

A	B	Weight
5-3/8"	3-1/2"	0.80

3 Hole Half Tee Plate

- Finish - Electro-Galvanized
- MTO

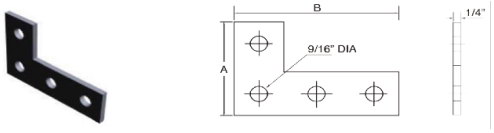


3 Hole Half Tee Plate: Weights (LBS) * Dimensions (IN)

A	B	Weight
3-1/2"	3-1/2"	0.58

4 Hole Half Tee Plate

- Finish - Electro-Galvanized
- MTO



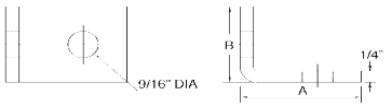
4 Hole Half Tee Plate: Weights (LBS) * Dimensions (IN)

A	B	Weight
3-1/2"	5-3/8"	0.80

STRUT FITTINGS

90Deg 2 Hole Bracket

• Finish - Electro-Galvanized

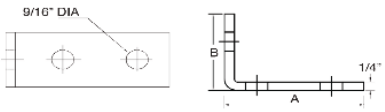


90Deg 2 Hole Bracket: Weights (LBS) * Dimensions (IN)

A	B	Weight
2-1/4"	1-5/8"	0.38
2"	1-7/8"	0.38
3"	1-7/8"	0.49

90Deg 3 Hole Bracket

• Finish - Electro-Galvanized
• MTO

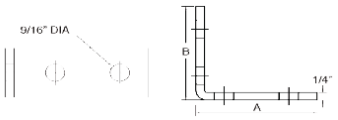


90Deg 3 Hole Bracket: Weights (LBS) * Dimensions (IN)

A	B	Weight
3-7/8"	1-7/8"	0.58
4-1/8"	1-5/8"	0.58
3-1/2"	2-1/2"	0.58

90Deg 4 Hole Bracket

• Finish - Electro-Galvanized
• MTO

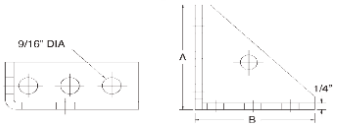


90Deg 4 Hole Bracket: Weights (LBS) * Dimensions (IN)

Item #	A	B	Weight
EG08388	4-1/8"	3-1/2"	0.78

90Deg 7 Hole Bracket

• Finish - Electro-Galvanized

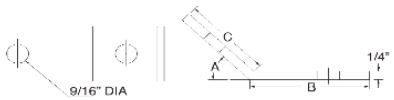


90Deg 7 Hole Bracket: Weights (LBS) * Dimensions (IN)

A	B	Weight
4-1/8"	4-1/8"	0.90

Open 45DEG 2 Hole Bracket

• Finish - Electro-Galvanized

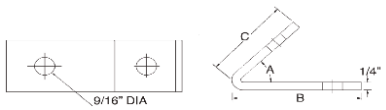


Open 45DEG 2 Hole Bracket: Weights (LBS) * Dimensions (IN)

A	B	Weight
4-1/8"	4-1/8"	0.90

Closed 45DEG 2 Hole Bracket

• Finish - Electro-Galvanized



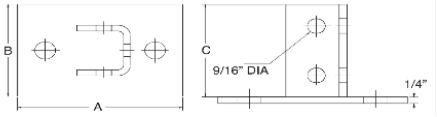
Closed 45DEG 2 Hole Bracket: Weights (LBS) * Dimensions (IN)

A	B	Weight
4-1/8"	4-1/8"	0.90

STRUT FITTINGS

8 Hole Post Base

• Finish - Electro-Galvanized

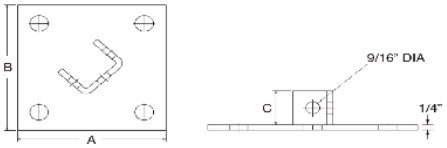


8 Hole Post Base: Weights (LBS) * Dimensions (IN)

A	B	C	Weight
6"	3-1/2"	3-1/2"	3.15

7 Hole Post Base

• Finish - Electro-Galvanized

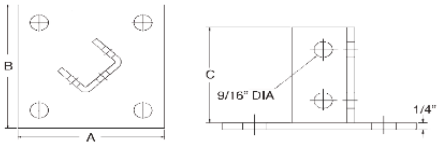


7 Hole Post Base: Weights (LBS) * Dimensions (IN)

A	B	C	Weight
6"	6"	1-5/8"	3.15

10 Hole Post Base

• Finish - Electro-Galvanized

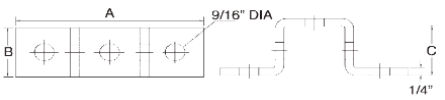


10 Hole Post Base: Weights (LBS) * Dimensions (IN)

A	B	C	Weight
6"	6"	3-1/2"	3.80

Channel Support

• Finish - Electro-Galvanized



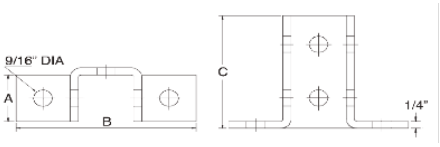
Channel Support: Weights (LBS) * Dimensions (IN)

A	B	C	Weight
5-3/8"	1-5/8"	1-3/4"	0.82

STRUT FITTINGS

8 Hole Corner Connector

• Finish - Electro-Galvanized

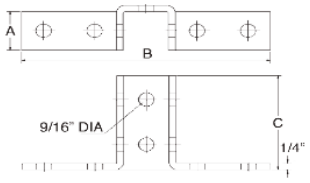


8 Hole Corner Connector: Weights (LBS) * Dimensions (IN)

A	B	C	Weight
1-3/4"	5-13/32"	3-3/4"	1.50

10 Hole Corner Connector

• Finish - Electro-Galvanized

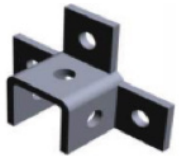


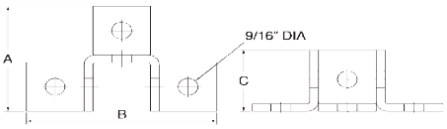
10 Hole Corner Connector: Weights (LBS) * Dimensions (IN)

A	B	C	Weight
1-3/4"	9-5/32"	3-3/4"	2.02

6 Hole Triple Wing Connector

• Finish - Electro-Galvanized



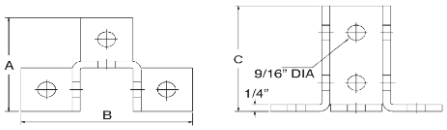


6 Hole Triple Wing Connector: Weights (LBS) * Dimensions (IN)

A	B	C	Weight
3-1/2"	5-7/16"	2"	1.13

9 Hole Triple Wing Connector

• Finish - Electro-Galvanized

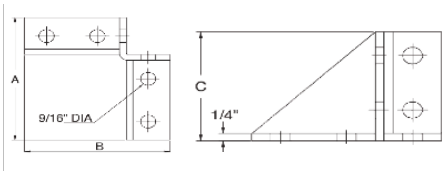


9 Hole Triple Wing Connector: Weights (LBS) * Dimensions (IN)

A	B	C	Weight
3-1/2"	5-7/16"	3-3/4"	1.77

Double Gusset Connector

• Finish - Electro-Galvanized



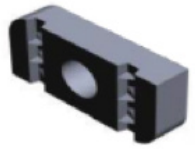
Double Gusset Connector: Weights (LBS) * Dimensions (IN)

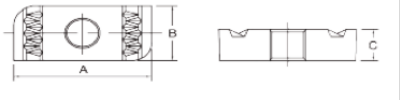
A	B	C	Weight
5-3/8"	5-3/8"	3-3/4"	2.17

STRUT NUTS

Without Spring

- Finish - Electro-Zinc Plated
- Sizes - 1/4” - 1/2”



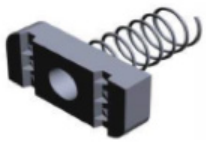


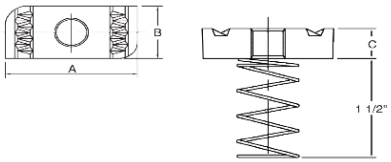
Strut Nut without Spring: Weights (LBS) * Dimensions (IN)

Item #	Thread Size	Weight	A	B	C
EG0815N1NH	1/4-20	0.07	1-3/8"	3/4"	1/4"
EG0815NNH	3/8-16	0.08	1-3/8"	3/4"	3/8"
EG0815N2NH	1/2-13	0.10	1-3/8"	3/4"	3/8"

With Spring

- Finish - Electro-Zinc Plated
- Sizes - 1/4” - 7/8”





Strut Nut with Spring: Weights (LBS) * Dimensions (IN)

Item #	Thread Size	Weight	A	B	C
EG0815N1	1/4-20	0.07	1-3/8"	3/4"	1/4"
EG0815N	3/8-16	0.08	1-3/8"	3/4"	3/8"
EG0815N2	1/2-13	0.10	1-3/8"	3/4"	1/2"
EG0815N3	5/8-11	0.12	1-3/8"	1-1/8"	1/2"
EG0815N4	3/4-10	0.20	1-3/8"	1-1/8"	1/2"
EG0815N5	7/8-9	0.20	1-3/8"	1-1/8"	1/2"

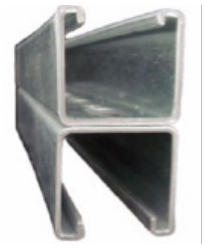
STRUT CHANNEL

Strut

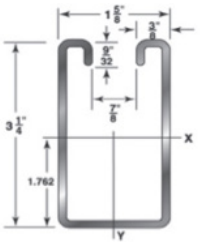
• Elgen Strut Channel is used primarily as a trapeze hanger for commercial construction
• Meets SMACNA table 5-4 in the 2005 3rd Edition for load requirements
• Meets MFMA-4
• Optional Construction Avaialable
• MADE IN USA

Item #	Description	Bundle QTY
EG0815	STRUT 1-5/8" X12GA X10FT** *SLOTTED*	500Ft
EG0815-250	STRUT 1-5/8" X12GA X10FT** *SLOTTED*	250FT
EG0820	STRUT 1-5/8" 14GA X10FT** *SLOTTED*	500FT
EG0820-250	STRUT 1-5/8" X14GA X10FT** *SLOTTED*	250FT
EG0840	STRUT 1-5/8" X12GA **X20FT** *SLOTTED*	500FT
EG0840S	STRUT 1-5/8" X14GA**ST/ST#304 X20FT *SLOTTED*	500FT
EG0845	STRUT 1-5/8" X14GA **X20FT**- *SLOTTED*	500FT
EG0845S	STRUT 1-5/8" X12GA**ST/ST#304 X20FT *SLOTTED*	500FT
EG0816S	STRUT 1-5/8" X14GA**ST/ST#304 X10FT *SLOTTED*	500FT
EG0818S-250FT	STRUT 1-5/8" X12GA**ST/ST#304 X10FT *SLOTTED*	250FT
EG0815-B	BACK-TO-BACK STRUT 1-5/8" 12GA SLOTTED HOLES **X20FT**	400FT
EG0830	STRUT 13/16" X14GA X10FT** *SLOTTED*	500FT
EG0830-20	STRUT 13/16" X14GA **X20FT** *SLOTTED*	1000FT
EG0830-250	STRUT 13/16" X14GA X10FT** *SLOTTED*	250FT
EG0831	STRUT 13/16" X12GA X10FT** *SLOTTED*	500FT
EG0831-20	STRUT 13/16" X12GA **X20FT** *SLOTTED*	1000FT
EG0836	STRUT 3-1/4" X12GA X10FT** *SLOTTED*	200FT
EG0836-20	STRUT 3-1/4" X12GA **X20FT** *SLOTTED*	400FT
EG0839	STRUT 2-7/16"X12GA X10FT** *SLOTTED*	300FT
EG0839-20	STRUT 2-7/16" X12GA **X20FT** *SLOTTED*	600FT

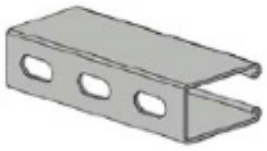
Back to Back Strut

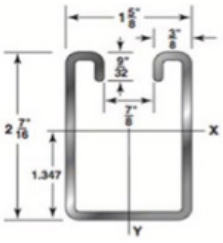


3-1/4” x 1-5/8”

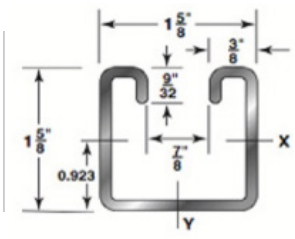


2-7/16” x 1-5/8”

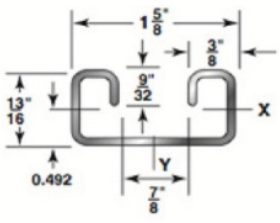




1-5/8”x1-5/8”



13/16” x 1-5/8”



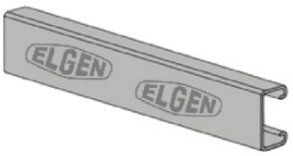
Load Bearing Calculation Table

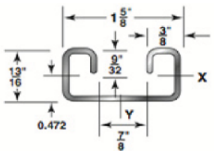
SECTION ELEMENTS			
Item #	Description	Wt./Ft. LBS.	Area of Section Sq.In.
EG0830	13/16" X 1-5/8" - 14 Gauge - wt./100 ft. - 103#	1.03	0.29

DEFINITIONS	
I	Moment of Inertia
S	Section Modules
r	Radius of Gyration

X-X AXIS		
I in.4	S in3	r in.
0.03	0.06	0.30

Y-Y AXIS		
I in.4	S in3	r in.
0.11	0.13	0.61

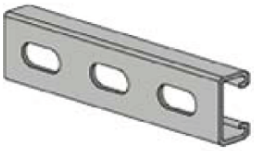


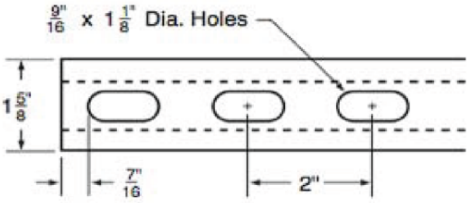


			CONCENTRATED LOAD AT DEFLECTION		
SPAN	MAX. ALLOWABLE CONCENTRATED	DEFLECTION CONCENTRATED LOAD (LBS)	SPAN/180 (LBS)	SPAN/240 (LBS)	SPAN/360 (LBS)
12	1,385.23	0.01	1,381.08	1,383.57	1,381.13
18	920.26	0.03	922.56	921.52	920.40
24	692.40	0.06	692.08	693.02	693.38
30	553.28	0.09	552.05	553.57	519.09
36	461.38	0.13	461.56	449.58	422.06
42	395.27	0.18	395.19	365.43	309.49
48	346.48	0.23	346.04	329.76	237.92
54	306.55	0.29	300.50	282.16	187.77
60	276.70	0.36	270.33	228.26	144.15
66	252.27	0.44	251.01	187.77	119.08
72	231.40	0.52	210.58	149.91	99.97
78	213.40	0.48	459.87	410.08	258.98
96	213.33	0.61	179.98	128.22	85.06
84	198.20	0.71	154.75	110.03	72.89
96	172.74	0.92	112.78	84.01	49.94
108	154.11	1.17	88.92	63.05	40.07
120	138.09	1.44	71.94	51.06	32.00
132	125.89	1.74	60.03	41.99	26.02
144	114.79	2.07	47.01	34.93	18.97
156	106.00	2.43	40.03	26.96	17.03
168	98.90	2.82	34.96	23.04	13.99
180	91.87	3.24	30.01	20.03	NR
192	85.93	3.70	24.96	324.00	NR
204	80.87	4.17	21.99	NR	NR
216	76.97	4.68	15.97	NR	NR
228	72.96	5.21	NR	NR	NR

NOTES:

1. The Beam capacities shown above include the weight of the strut beam. The Beam weight must be subtracted from these capacities to arrive at the net beam capacity.
2. Long span beams should be supported in such a manner as to prevent rotation and twist.
3. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by 0.88
4. Shaded area represent deflection more than L/180 .
Minimum material thickness - 0.069" thick





Concentrated Load

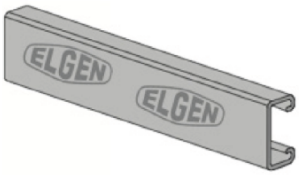
Load Bearing Calculation Table

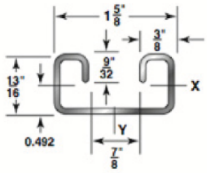
SECTION ELEMENTS			
Item #	Description	Wt./Ft. LBS.	Area of Section Sq.In.
EG0831	13/16" X 1-5/8" - 12 GAUGE - WT./100 FT. - 135#	1.37	0.38

DEFINITIONS	
I	Moment of Inertia
S	Section Modules
r	Radius of Gyration

X-X AXIS		
I in.4	S in3	r in.
0.03	0.07	0.29

Y-Y AXIS		
I in.4	S in3	r in.
0.14	0.17	0.60



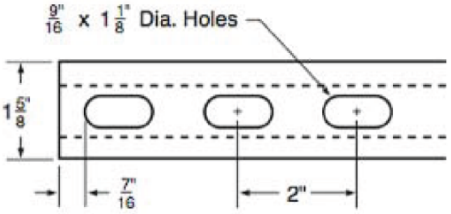


			CONCENTRATED LOAD AT DEFLECTION		
SPAN	MAX. ALLOWABLE CONCENTRATED	DEFLECTION CONCENTRATED LOAD (LBS)	SPAN/180 (LBS)	SPAN/240 (LBS)	SPAN/360 (LBS)
12	558.74	0.03	557.57	558.39	558.41
18	371.50	0.06	372.72	372.13	369.32
24	278.58	0.11	278.76	260.09	229.93
30	222.96	0.17	223.34	195.65	146.99
36	185.89	0.24	181.20	136.16	101.96
42	159.76	0.33	133.20	99.91	75.07
48	140.22	0.43	101.88	77.10	56.89
54	123.83	0.55	81.02	60.06	41.01
60	111.90	0.68	62.08	48.92	32.96
66	102.17	0.82	50.92	40.08	26.95
72	92.85	0.97	38.02	34.03	20.02
78	85.88	1.14	32.96	28.99	17.03
84.000	80.06	1.33	25.98	25.05	15.01
96	69.91	1.73	20.02	18.98	10.98
108	61.93	2.19	16.03	15.02	NR
120	56.08	2.72	12.98	12.00	NR
132	50.98	3.28	NR	NR	NR
144	47.00	3.90	NR	NR	NR
156	43.02	4.58	NR	NR	NR
168	39.96	5.31	NR	NR	NR
180	36.96	6.09	NR	NR	NR
192	35.02	6.92	NR	NR	NR
204	33.05	7.81	NR	NR	NR
216	30.94	8.76	NR	NR	NR
228	28.94	9.77	NR	NR	NR
240	27.97	10.82	NR	NR	NR

NOTES:

1. The Beam capacities shown above include the weight of the strut beam. The Beam weight must be subtracted from these capacities to arrive at the net beam capacity.
2. Long span beams should be supported in such a manner as to prevent rotation and twist.
3. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by 0.88
4. Shaded area represent deflection more than L/180 .

Minimum material thickness - 0.096" thick



Concentrated Load

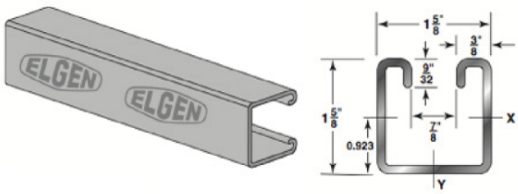
Load Bearing Calculation Table

SECTION ELEMENTS			
Item #	Description	Wt./Ft. LBS.	Area of Section Sq.In.
EG0820	1-5/8" X 1-5/8" - 14 GAUGE - WT./100 FT. - 145#	1.45	0.415

DEFINITIONS	
I	Moment of Inertia
S	Section Modules
r	Radius of Gyration

X-X AXIS		
I in.4	S in3	r in.
0.148	0.165	0.184

Y-Y AXIS		
I in.4	S in3	r in.
0.183	0.224	0.662

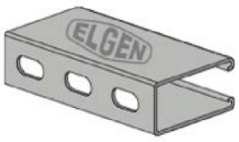


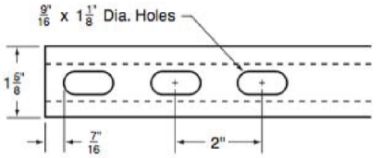
			CONCENTRATED LOAD AT DEFLECTION		
SPAN	MAX. ALLOWABLE CONCENTRATED	DEFLECTION CONCENTRATED LOAD (LBS)	SPAN/180 (LBS)	SPAN/240 (LBS)	SPAN/360 (LBS)
12	1,729.75	0.01	1,730.32	1,735.05	1,734.62
18	1,155.26	0.03	1,155.35	1,153.71	1,157.63
24	867.50	0.06	866.76	866.70	868.72
30	693.01	0.09	692.36	693.89	692.13
36	576.89	0.13	578.98	578.41	531.98
42	494.18	0.18	495.79	495.58	391.30
48	433.80	0.23	433.85	424.20	300.13
54	385.48	0.29	385.45	355.12	237.05
60	347.05	0.36	346.80	288.49	181.95
66	314.41	0.43	314.51	238.15	149.92
72	288.43	0.52	265.51	200.32	126.04
78	267.40	0.60	227.03	161.12	107.87
84	247.60	0.70	196.34	139.17	93.17
96	217.36	0.92	149.96	106.19	71.04
108	193.22	1.16	117.89	84.05	53.03
120	173.09	1.43	90.84	68.04	43.01
132	157.87	1.73	75.03	53.04	34.98
144	143.84	2.06	62.98	45.09	28.05
156	133.23	2.42	53.96	37.93	24.04
168	124.02	2.79	46.05	32.97	20.97
180	116.18	3.22	40.01	27.05	18.03
192	108.15	3.66	31.98	24.01	16.00
204	102.13	4.13	28.03	18.03	NR
216	95.93	4.64	25.03	16.00	NR
228	90.92	5.17	21.96	NR	NR
240	264.64	3.62	103.64	83.64	59.64

NOTES:

1. The Beam capacities shown above include the weight of the strut beam. The Beam weight must be subtracted from these capacities to arrive at the net beam capacity.
2. Long span beams should be supported in such a manner as to prevent rotation and twist.
3. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by 0.88
4. Shaded area represent deflection more than L/180 .

Minimum material thickness - 0.096" thick





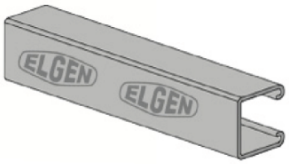
Load Bearing Calculation Table

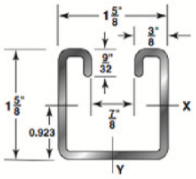
SECTION ELEMENTS			
Item #	Description	Wt./Ft. LBS.	Area of Section Sq.In.
EG0815	1-5/8" X 1-5/8" - 12 GAUGE - WT./100 FT. - 194#	1.94	0.55

DEFINITIONS	
I	Moment of Inertia
S	Section Modules
r	Radius of Gyration

X-X AXIS		
I in.4	S in3	r in.
0.19	0.21	0.58

Y-Y AXIS		
I in.4	S in3	r in.
0.24	0.26	0.65



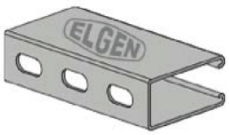


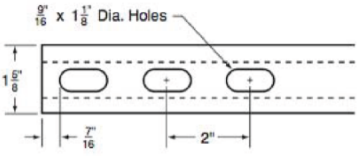
			CONCENTRATED LOAD AT DEFLECTION		
SPAN	MAX. ALLOWABLE CONCENTRATED	DEFLECTION CONCENTRATED LOAD (LBS)	SPAN/180 (LBS)	SPAN/240 (LBS)	SPAN/360 (LBS)
12	1,729.70	0.01	1,731.45	1,731.97	1,732.80
18	1,156.68	0.03	1,155.78	1,156.77	1,157.58
24	865.93	0.06	867.17	867.31	867.33
30	691.97	0.09	694.01	693.18	691.98
36	577.09	0.13	577.40	578.38	533.55
42	495.15	0.18	495.76	495.41	390.53
48	432.24	0.23	433.41	424.31	300.19
54	385.70	0.29	384.35	385.75	236.94
60	346.76	0.36	346.68	287.82	181.74
66	315.49	0.43	314.88	238.20	150.08
72	289.39	0.52	265.64	200.26	126.16
78	267.34	0.60	227.21	160.95	108.21
96	216.97	0.92	150.21	105.84	71.02
108	192.83	1.16	118.23	84.17	53.01
120	172.71	1.43	90.84	68.13	43.00
132	158.05	1.73	74.96	52.94	35.02
144	143.72	2.06	63.10	44.94	28.01
156	132.83	2.42	53.92	38.06	24.01
168	123.89	2.81	45.97	33.03	20.99
180	115.87	3.22	40.07	27.05	17.97
192	108.18	3.66	32.04	23.97	15.98
204	102.17	4.13	28.00	18.00	NR
216	96.17	4.64	24.98	16.02	NR
228	90.84	5.16	22.04	NR	NR
240	86.88	5.72	20.03	NR	NR
240	264.64	3.62	103.64	83.64	59.64

NOTES:

1. The Beam capacities shown above include the weight of the strut beam. The Beam weight must be subtracted from these capacities to arrive at the net beam capacity.
2. Long span beams should be supported in such a manner as to prevent rotation and twist.
3. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by 0.88
4. Shaded area represent deflection more than L/180 .

Minimum material thickness - 0.096" thick





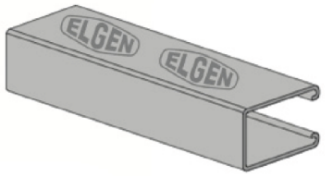
Load Bearing Calculation Table

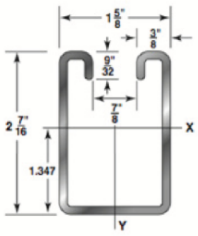
SECTION ELEMENTS			
Item #	Description	Wt./Ft. LBS.	Area of Section Sq.In.
EG0839	2-7/16"X1-5/8 -12 GAUGE - WT./100 FT. -254#	2.54	0.72

DEFINITIONS	
I	Moment of Inertia
S	Section Modules
r	Radius of Gyration

X-X AXIS		
I in.4	S in3	r in.
0.52	0.40	0.85

Y-Y AXIS		
I in.4	S in3	r in.
0.33	0.41	0.68



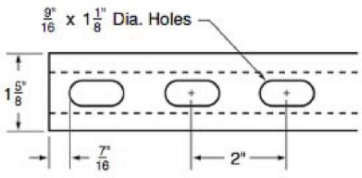


			CONCENTRATED LOAD AT DEFLECTION		
SPAN	MAX. ALLOWABLE CONCENTRATED	DEFLECTION CONCENTRATED LOAD (LBS)	SPAN/180 (LBS)	SPAN/240 (LBS)	SPAN/360 (LBS)
12	329.47	0.01	3,294.79	3,298.97	3,298.07
18	2,199.16	0.02	2,203.95	2,200.18	2,199.08
24	1,649.32	0.04	1,646.95	1,651.98	1,651.66
30	1,322.02	0.06	1,322.25	1,319.34	1,322.22
36	1,098.80	0.09	1,101.25	1,100.38	1,100.15
42	943.44	0.12	944.84	942.61	941.65
48	824.27	0.16	825.82	823.35	825.71
60	659.16	0.24	659.82	659.43	535.56
66	601.03	0.30	599.39	574.31	442.76
72	551.01	0.35	550.51	524.44	371.87
78	507.98	0.41	508.30	475.32	317.28
84	471.85	0.48	460.13	410.04	258.65
96	412.86	0.62	402.29	313.93	197.61
108	367.43	0.79	331.62	235.46	156.75
120	329.87	0.98	267.82	189.91	127.15
132	300.07	1.18	220.87	156.86	99.07
144	274.76	1.40	186.15	132.21	83.08
156	253.80	1.65	149.74	106.19	70.96
168	235.82	1.91	129.14	92.04	57.88
180	219.64	2.19	113.22	80.07	49.96
192	205.85	2.50	98.84	66.07	44.05
204	193.74	2.82	77.87	59.07	33.96
216	183.26	3.16	70.03	52.06	29.95
228	173.80	3.52	61.94	43.95	26.96
240	164.85	3.90	55.97	40.02	25.01

NOTES:

1. The Beam capacities shown above include the weight of the strut beam. The Beam weight must be subtracted from these capacities to arrive at the net beam capacity.
2. Long span beams should be supported in such a manner as to prevent rotation and twist.
3. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by 0.88
4. Shaded area represent deflection more than L/180 .

Minimum material thickness - 0.096" thick



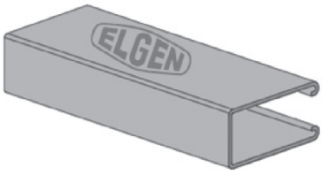
Load Bearing Calculation Table

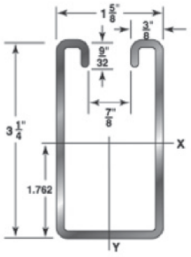
SECTION ELEMENTS			
Item #	Description	Wt./Ft. LBS.	Area of Section Sq.In.
EG0836	3-1/4"x1-5/8" -12 GAUGE- WT./100 FT.- 313#	3.200	0.721

DEFINITIONS	
I	Moment of Inertia
S	Section Modules
r	Radius of Gyration

X-X AXIS		
I in.4	S in3	r in.
1.10	0.63	1.11

Y-Y AXIS		
I in.4	S in3	r in.
0.43	0.53	0.70



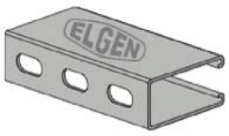


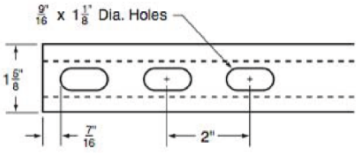
			CONCENTRATED LOAD AT DEFLECTION		
SPAN	MAX. ALLOWABLE CONCENTRATED	DEFLECTION CONCENTRATED LOAD (LBS)	SPAN/180 (LBS)	SPAN/240 (LBS)	SPAN/360 (LBS)
12	5,270.79	0.01	5,267.73	5,282.28	5,284.02
18	3,519.00	0.02	3,513.76	3,514.27	3,523.14
24	2,641.63	0.03	2,635.90	2,637.03	2,640.50
30	2,113.03	0.05	2,107.07	2,107.62	2,110.17
36	1,760.02	0.07	1,759.66	1,757.06	1,758.22
42	1,509.12	0.09	1,504.04	1,508.13	1,507.42
48	1,320.25	0.12	1,319.05	1,319.70	1,320.48
54	1,169.91	0.15	1,170.70	1,171.96	1,169.79
60	1,056.44	0.19	1,053.35	1,053.98	1,056.95
66	958.84	0.23	938.89	938.18	939.50
72	877.26	0.27	867.79	867.73	779.69
78	811.87	0.31	799.26	794.93	663.50
84	755.03	0.36	741.93	737.74	572.05
96	659.82	0.48	601.92	595.75	437.71
108	586.22	0.60	564.67	519.72	328.59
120	528.80	0.74	499.65	421.66	265.76
132	480.46	0.90	465.23	348.17	220.44
144	440.40	1.07	369.35	276.69	184.95
156	406.48	1.26	314.69	235.93	157.26
168	376.40	1.46	270.99	203.04	128.02
180	352.30	1.67	223.04	177.28	112.21
192	329.54	1.90	195.66	146.72	97.93
204	310.42	2.15	163.81	130.15	87.08
216	293.57	2.41	146.02	115.88	73.05
228	278.53	2.69	115.21	91.96	65.04
240	264.24	2.98	103.17	82.95	59.06

NOTES:

1. The Beam capacities shown above include the weight of the strut beam. The Beam weight must be subtracted from these capacities to arrive at the net beam capacity.
2. Long span beams should be supported in such a manner as to prevent rotation and twist.
3. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by 0.88
4. Shaded area represent deflection more than L/180 .

Minimum material thickness - 0.096" thick





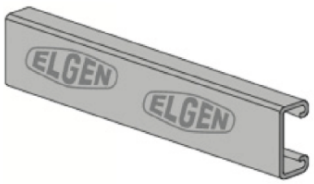
Load Bearing Calculation Table

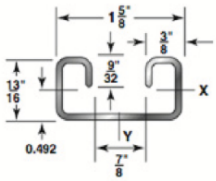
SECTION ELEMENTS			
Item #	Description	Wt./Ft. LBS.	Area of Section Sq.In.
EG0831	13/16" X 1-5/8" - 12 GAUGE - WT./100 FT. - 135#	1.37	0.38

DEFINITIONS	
I	Moment of Inertia
S	Section Modules
r	Radius of Gyration

X-X AXIS		
I in.4	S in3	r in.
0.03	0.07	0.29

Y-Y AXIS		
I in.4	S in3	r in.
0.14	0.17	0.60





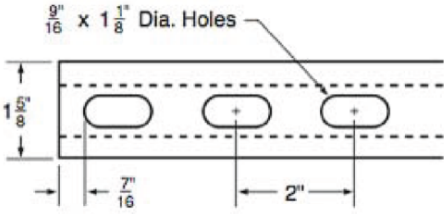
Uniform Load

	STATIC BEAN LOAD (X-X AXIS)					
			UNIFORM LOAD AT DEFLECTION			
SPAN / UUNBREACHED HEIGHT (IN.)	MAX ALLOWABLE UNIFORM LOAD (LBS)	DEFLECTION AT UNIFORM LOAD(LBS)	SPAN/180 DEFLECTION (LBS)	SPAN/240 DEFLECTION (LBS)	SPAN/360 DEFLECTION (LBS)	WEIGHT OF CHANNEL (LBS)
12	1130.74	0.03	1130.89	1129.68	1131.96	1.40
18	751.35	0.06	751.23	749.56	621.06	2.10
24	559.84	0.11	559.07	520.95	349.52	2.70
30	450.10	0.17	450.84	340.57	219.93	3.40
36	380.71	0.24	309.64	230.03	160.31	4.09
42	319.70	0.33	230.31	169.95	109.81	4.81
48	280.31	0.43	169.79	129.99	89.89	5.51
60	229.57	0.67	110.05	80.02	59.98	6.91
72	189.75	0.97	79.94	60.00	40.01	8.20
84	159.93	1.32	60.11	40.00	29.98	9.59
96	140.01	1.72	40.02	30.02	20.04	10.99
108	130.14	2.18	30.02	30.03	19.99	12.39
120	110.19	2.68	30.00	20.00	**	13.70
144	89.98	3.88	20.00	**	**	16.50
168	79.97	5.29	**	**	**	19.18
180	80.04	6.05	**	**	**	20.63
192	69.96	6.90	**	**	**	22.01
216	59.98	8.73	**	**	**	24.72
240	60.05	10.76	**	**	**	27.45

		COLUMN LOADING DATA			
		MAX COLUMN LOAD APPLIED AT C.G.			
SPAN / UUNBREACHED HEIGHT (IN.)	MAX ALLOWABLE LOAD AT SLOT FACE (LBS)	k=.65 (LBS)	k=0.80 (LBS)	k=1.0 (LBS)	k=1.2 (LBS)
12	2414.79	8485.03	8266.12	7989.59	7695.25
18	2271.96	8030.44	7718.11	7086.93	6397.00
24	2089.11	7500.30	6868.91	5894.96	4914.51
30	1879.66	6796.72	5907.12	4677.83	3493.01
36	1680.36	6028.90	4916.29	3505.57	2431.74
42	1472.90	5227.89	3947.62	2568.02	1793.49
48	1277.90	4430.52	3075.38	1967.20	1372.74
60	969.50	2984.64	1966.64	**	**
72	760.99	2068.45	1369.99	**	**
84	**	1518.64	**	**	**
96	**	**	**	**	**
108	**	**	**	**	**
120	**	**	**	**	**
144	**	**	**	**	**
168	**	**	**	**	**
180	**	**	**	**	**
192	**	**	**	**	**
216	**	**	**	**	**
240	**	**	**	**	**

1. Beam capacities include strut weight, which must be deducted from listed capacities to derive net capacities.
2. Permissible loads based on uniform loads and simple support. To find capacities of loaded beams at midspan, multiply capacity by 0.50 and deflection by 0.80.
3. Beam capacities shown for strut without holes. Multiply by 0.88 for strut with holes.

Bearing Load may limit load
** We Do Not recommend - KL/r exceeds 200
Minimum material thickness - 0.096" thick



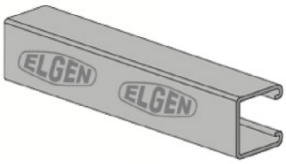
Load Bearing Calculation Table

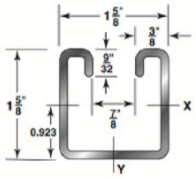
SECTION ELEMENTS			
Item #	Description	Wt./Ft. LBS.	Area of Section Sq.In.
EG0820	1-5/8" X 1-5/8" - 14 GAUGE - WT./100 FT. - 145#	1.45	0.42

DEFINITIONS	
I	Moment of Inertia
S	Section Modules
r	Radius of Gyration

X-X AXIS		
I in.4	S in3	r in.
0.15	0.17	0.58

Y-Y AXIS		
I in.4	S in3	r in.
0.18	0.22	0.66



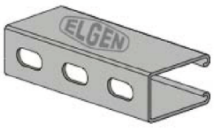


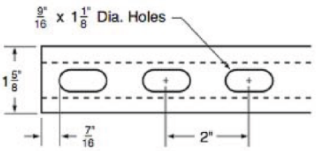
	STATIC BEAN LOAD (X-X AXIS)					
			UNIFORM LOAD AT DEFLECTION			
SPAN / UUNBREACHED HEIGHT (IN.)	MAX ALLOWABLE UNIFORM LOAD (LBS)	DEFLECTION AT UNIFORM LOAD(LBS)	SPAN/180 DEFLECTION (LBS)	SPAN/240 DEFLECTION (LBS)	SPAN/360 DEFLECTION (LBS)	WEIGHT OF CHANNEL (LBS)
12	2,790.31	0.01	2,794.28	2,791.95	2,795.31	1.50
18	1,858.76	0.03	1,861.60	1,859.11	1,856.46	2.20
24	1,401.50	0.06	1,399.95	1,400.08	1,402.61	2.90
30	1,119.03	0.09	1,121.11	1,120.79	1,040.12	3.60
36	929.78	0.13	929.52	930.29	719.46	4.41
42	799.69	0.18	799.49	799.28	530.44	5.10
48	699.50	0.23	699.67	608.91	409.64	5.80
60	560.92	0.36	520.37	390.35	260.42	7.30
72	470.43	0.51	360.09	270.40	180.29	8.69
84	400.72	0.70	270.03	200.00	130.26	10.20
96	349.67	0.91	199.88	150.27	99.86	11.59
108	310.32	1.16	160.31	119.95	80.02	13.10
120	280.40	1.43	129.99	99.82	69.98	14.50
144	230.08	2.06	89.99	69.98	50.03	17.42
168	199.80	2.80	69.88	50.06	30.01	20.29
180	190.18	3.21	60.02	39.93	29.95	21.78
192	170.34	3.66	49.93	40.05	29.98	23.23
216	160.21	4.64	40.07	30.02	NR	26.14
240	140.20	5.71	30.02	NR	NR	29.04

		COLUMN LOADING DATA			
		MAX COLUMN LOAD APPLIED AT C.G.			
SPAN / UUNBREACHED HEIGHT (IN.)	MAX ALLOWABLE LOAD AT SLOT FACE (LBS)	k=.65 (LBS)	k=0.80 (LBS)	k=1.0 (LBS)	k=1.2 (LBS)
12	3,049.52	9,234.22	8,984.95	8,631.09	8,223.28
18	2,927.66	8,707.34	8,238.50	7,542.32	6,824.93
24	2,767.50	8,000.73	7,322.33	6,357.64	5,430.35
30	2,593.96	7,250.89	6,358.42	5,200.75	4,183.89
36	2,393.07	6,472.20	5,417.64	4,182.35	3,213.66
42	2,179.41	5,768.50	4,568.11	3,344.30	2,584.86
48	1,981.41	4,994.01	3,830.65	2,765.49	2,163.64
60	1,622.85	3,733.37	2,758.71	2,048.33	1,642.17
72	1,371.30	2,855.08	2,163.92	1,642.28	1,331.13
84	1,191.59	229.85	1,780.97	1,371.60	1,118.54
96	1,050.11	1,953.38	1,518.98	1,182.20	959.86
108	938.84	1,686.66	1,329.13	1,030.54	**
120	849.44	1,501.13	1,177.69	**	**
144	708.76	1,219.07	959.85	**	**
168	**	1,018.07	**	**	**
180	**	941.26	**	**	**
192	**	**	**	**	**
216	**	**	**	**	**
240	**	**	**	**	**

1. Beam capacities include strut weight, which must be deducted from listed capacities to derive net capacities.
2. Permissible loads based on uniform loads and simple support. To find capacities of loaded beams at midspan, multiply capacity by 0.50 and deflection by 0.80.
3. Beam capacities shown for strut without holes. Multiply by 0.88 for strut with holes.

Bearing Load may limit load
** We Do Not recommend - KL/r exceeds 200
Minimum material thickness - 0.069" thick





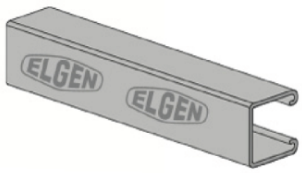
Load Bearing Calculation Table

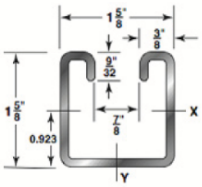
SECTION ELEMENTS			
Item #	Description	Wt./Ft. LBS.	Area of Section Sq.In.
EG0815	1-5/8" X 1-5/8" - 12 GAUGE - WT./100 FT. - 194#	1.94	0.55

DEFINITIONS	
I	Moment of Inertia
S	Section Modules
r	Radius of Gyration

X-X AXIS		
I in.4	S in3	r in.
0.19	0.21	0.58

Y-Y AXIS		
I in.4	S in3	r in.
0.24	0.26	0.65





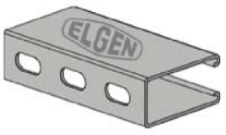
Uniform Load

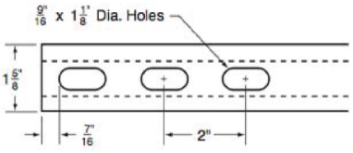
	STATIC BEAN LOAD (X-X AXIS)					
			UNIFORM LOAD AT DEFLECTION			
SPAN / UUNBREACHED HEIGHT (IN.)	MAX ALLOWABLE UNIFORM LOAD (LBS)	DEFLECTION AT UNIFORM LOAD(LBS)	SPAN/180 DEFLECTION (LBS)	SPAN/240 DEFLECTION (LBS)	SPAN/360 DEFLECTION (LBS)	WEIGHT OF CHANNEL (LBS)
12	3,485.92	0.01	3,486.70	3,480.37	3,484.77	1.90
18	2,318.69	0.03	2,318.25	2,319.61	2,315.56	2.89
24	1,739.53	0.06	1,741.64	1,739.14	1,741.24	3.89
30	1,392.05	0.09	1,390.72	1,388.13	1,311.40	4.89
36	1,162.27	0.13	1,157.90	1,161.07	910.62	5.80
42	991.83	0.17	988.12	989.36	669.53	6.81
48	869.33	0.23	871.38	769.64	509.21	7.81
60	700.83	0.35	659.26	489.21	329.85	9.68
72	579.85	0.51	460.41	339.54	230.05	11.59
84	500.73	0.69	340.65	250.48	170.15	13.63
96	429.40	0.90	260.09	189.66	129.86	15.47
108	389.23	1.14	200.32	150.24	100.00	17.48
120	350.34	1.41	159.97	119.89	229.54	19.41
144	289.95	2.03	110.05	90.11	60.11	23.34
168	249.73	2.77	80.14	60.09	40.05	27.16
180	230.44	3.18	69.89	50.00	40.01	29.14
192	220.13	3.60	59.91	50.01	NR	31.01
216	190.04	4.57	50.03	39.93	NR	34.90
240	170.32	5.65	40.05	NR	NR	38.77

		COLUMN LOADING DATA			
		MAX COLUMN LOAD APPLIED AT C.G.			
SPAN / UUNBREACHED HEIGHT (IN.)	MAX ALLOWABLE LOAD AT SLOT FACE (LBS)	k=.65 (LBS)	k=0.80 (LBS)	k=1.0 (LBS)	k=1.2 (LBS)
12	3,857.42	12,232.59	11,955.87	11,477.72	10,939.63
18	3,714.47	11,519.75	10,970.66	10,134.19	9,290.58
24	3,523.55	10,674.99	9,839.70	8,729.14	7,716.94
30	3,330.27	9,778.69	8,755.71	7,469.23	6,372.48
36	3,114.00	8,891.05	7,701.24	6,367.72	5,303.01
42	290.49	8,021.39	6,803.45	5,466.64	4,427.18
48	270.70	7,237.72	6,010.94	4,689.26	3,817.13
60	2,335.92	5,906.60	4,691.40	3,630.06	2,964.65
72	2,039.10	4,836.23	3,806.96	2,961.22	2,399.21
84	1,798.40	4,042.13	3,193.67	2,482.85	1,979.53
96	1,598.42	3,473.32	2,744.82	2,108.86	1,668.35
108	1,437.83	0.05	2,401.44	1,822.39	**
120	1,290.88	2,702.84	2,106.75	**	**
144	1,061.85	217.63	1,667.78	**	**
168	**	1,790.06	**	**	**
180	**	**	**	**	**
192	**	**	**	**	**
216	**	**	**	**	**
240	**	**	**	**	**

1. Beam capacities include strut weight, which must be deducted from listed capacities to derive net capacities.
2. Permissible loads based on uniform loads and simple support. To find capacities of loaded beams at midspan, multiply capacity by 0.50 and deflection by 0.80.
3. Beam capacities shown for strut without holes. Multiply by 0.88 for strut with holes.

Bearing Load may limit load
** We Do Not recommend - KL/r exceeds 200
Minimum material thickness - 0.096" thick





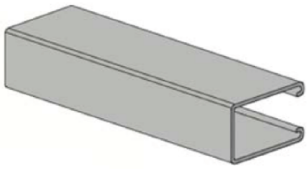
Load Bearing Calculation Table

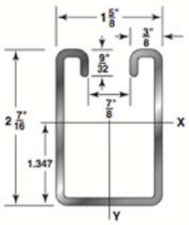
SECTION ELEMENTS			
Item #	Description	Wt./Ft. LBS.	Area of Section Sq.In.
EG0839	2-7/16"X1-5/8 -12 GAUGE - WT./100 FT. -254#	2.54	0.72

DEFINITIONS	
I	Moment of Inertia
S	Section Modules
r	Radius of Gyration

X-X AXIS		
I in.4	S in3	r in.
0.52	0.40	0.85

Y-Y AXIS		
I in.4	S in3	r in.
0.33	0.41	0.68





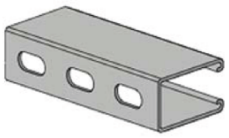
Uniform Load

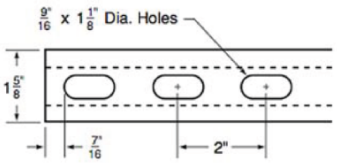
	STATIC BEAN LOAD (X-X AXIS)					
			UNIFORM LOAD AT DEFLECTION			
SPAN / UUNBREACHED HEIGHT (IN.)	MAX ALLOWABLE UNIFORM LOAD (LBS)	DEFLECTION AT UNIFORM LOAD(LBS)	SPAN/180 DEFLECTION (LBS)	SPAN/240 DEFLECTION (LBS)	SPAN/360 DEFLECTION (LBS)	WEIGHT OF CHANNEL (LBS)
12	6,642.75	0.01	6,627.70	6,652.39	6,645.22	2.50
18	4,434.51	0.02	4,429.17	4,430.82	4,422.41	3.81
24	3,314.81	0.04	3,325.85	3,315.98	3,325.70	5.09
30	2,664.85	0.06	2,659.36	2,656.27	2,654.79	6.39
36	2,207.73	0.09	2,208.35	2,211.08	2,207.38	7.59
42	1,902.87	0.12	1,903.04	1,897.60	1,869.10	8.90
48	1,663.09	0.15	1,659.94	1,662.97	1,431.47	10.21
60	1,330.83	0.24	1,331.09	1,329.36	921.43	12.69
72	1,111.80	0.35	1,111.42	958.69	639.13	15.22
84	950.92	0.47	938.74	699.13	470.65	17.79
96	831.12	0.62	720.21	539.72	359.52	20.28
108	738.87	0.78	569.61	419.92	279.57	22.89
120	659.14	0.97	460.30	340.68	229.87	25.35
144	549.01	1.39	319.45	239.76	159.98	30.52
168	469.66	1.89	230.15	180.31	119.97	35.54
180	440.72	2.17	200.30	149.76	99.87	38.05
192	419.79	2.47	179.98	129.80	89.92	40.64
216	369.30	3.13	139.95	109.81	69.92	45.78
240	330.47	3.86	110.01	90.16	59.91	50.74

		COLUMN LOADING DATA			
		MAX COLUMN LOAD APPLIED AT C.G.			
SPAN / UUNBREACHED HEIGHT (IN.)	MAX ALLOWABLE LOAD AT SLOT FACE (LBS)	k=.65 (LBS)	k=0.80 (LBS)	k=1.0 (LBS)	k=1.2 (LBS)
12	5,045.14	15,931.68	15,515.58	14,866.59	14,117.71
18	4,865.22	14,964.31	14,127.55	12,901.01	11,658.58
24	4,631.74	13,727.69	12,509.48	10,788.49	9,163.12
30	4,353.35	12,395.45	10,793.13	8,776.10	7,027.88
36	4,024.83	10,994.89	9,172.82	7,021.08	5,361.73
42	3,694.52	9,631.10	7,667.14	5,597.20	4,326.52
48	3,349.13	8,408.15	6,393.59	4,611.84	3,634.57
60	2,772.08	6,249.24	4,619.47	3,445.39	2,767.07
72	2,360.31	4,788.15	3,623.80	2,771.58	2,260.16
84	2,073.33	3,891.98	3,012.20	2,330.03	1,906.59
96	1,847.84	3,294.94	2,576.80	2,016.76	1,652.36
108	1,667.36	2,862.15	2,263.38	1,769.43	1,438.28
120	1,521.54	2,528.86	2,017.77	1,582.40	**
144	1,290.21	2,073.93	1,651.67	**	**
168	1,111.22	1,750.55	1,379.93	**	**
180	**	1,619.32	**	**	**
192	**	1,508.06	**	**	**
216	**	**	**	**	**
240	**	**	**	**	**

1. Beam capacities include strut weight, which must be deducted from listed capacities to derive net capacities.
2. Permissible loads based on uniform loads and simple support. To find capacities of loaded beams at midspan, multiply capacity by 0.50 and deflection by 0.80.
3. Beam capacities shown for strut without holes. Multiply by 0.88 for strut with holes.

Bearing Load may limit load
** We Do Not recommend - KL/r exceeds 200
Minimum material thickness - 0.096" thick





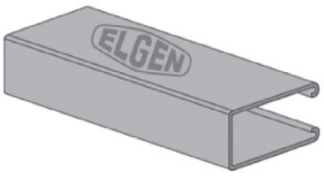
Load Bearing Calculation Table

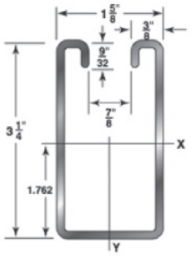
SECTION ELEMENTS			
Item #	Description	Wt./Ft. LBS.	Area of Section Sq.In.
EG0836	3-1/4"x1-5/8" -12 GAUGE- WT./100 FT.- 313#	3.200	0.721

DEFINITIONS	
I	Moment of Inertia
S	Section Modules
r	Radius of Gyration

X-X AXIS		
I in.4	S in3	r in.
1.10	0.63	1.11

Y-Y AXIS		
I in.4	S in3	r in.
0.43	0.53	0.70





Uniform Load

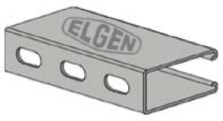
STATIC BEAN LOAD (X-X AXIS)						
			UNIFORM LOAD AT DEFLECTION			
SPAN / UUNBREACHED HEIGHT (IN.)	MAX ALLOWABLE UNIFORM LOAD (LBS)	DEFLECTION AT UNIFORM LOAD(LBS)	SPAN/180 DEFLECTION (LBS)	SPAN/240 DEFLECTION (LBS)	SPAN/360 DEFLECTION (LBS)	WEIGHT OF CHANNEL (LBS)
12	10,625.49	0.01	10,609.97	10,598.01	10,594.36	3.10
18	7,062.80	0.02	7,062.27	7,068.93	7,081.16	4.70
24	5,296.59	0.03	5,305.31	5,294.13	5,290.19	6.30
30	4,238.46	0.05	4,245.97	4,248.41	4,242.54	7.81
36	3,544.32	0.07	3,544.43	3,543.63	3,538.95	9.41
42	3,027.10	0.09	3,024.39	3,027.76	3,026.99	10.99
48	2,647.81	0.12	2,653.58	2,649.54	2,654.63	12.48
60	2,118.32	0.18	2,123.04	2,116.63	1,916.75	15.69
72	1,771.79	0.26	1,767.76	1,773.20	1,337.38	18.78
84	1,522.51	0.36	1,517.06	1,470.28	980.52	21.92
96	1,330.47	0.47	1,330.65	1,332.12	751.27	24.96
108	1,180.01	0.60	1,179.18	891.50	589.40	28.16
120	1,060.12	0.74	959.76	720.82	479.54	31.35
144	880.12	1.06	669.72	499.16	329.59	37.57
168	759.31	1.44	489.47	369.80	249.86	43.73
180	711.30	1.65	429.69	320.17	210.16	47.08
192	659.79	1.88	379.93	280.13	189.82	50.08
216	588.90	2.38	300.58	219.90	149.96	56.38
240	530.61	2.94	239.54	180.24	120.20	62.59

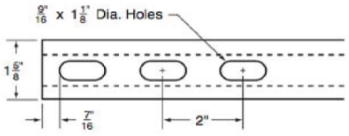
COLUMN LOADING DATA					
		MAX COLUMN LOAD APPLIED AT C.G.			
SPAN / UUNBREACHED HEIGHT (IN.)	MAX ALLOWABLE LOAD AT SLOT FACE (LBS)	k=.65 (LBS)	k=0.80 (LBS)	k=1.0 (LBS)	k=1.2 (LBS)
12	6,162.49	19,605.68	19,049.11	18,232.55	17,257.82
18	5,941.47	18,316.34	17,261.88	15,636.03	13,901.67
24	5,639.64	16,701.08	15,091.81	12,758.58	10,579.88
30	5,266.48	14,922.27	12,782.61	10,035.09	7,630.34
36	4,842.23	13,081.12	10,555.20	7,631.62	5,653.64
42	4,361.19	11,231.74	8,551.17	5,904.56	4,443.78
48	3,866.77	9,537.41	6,858.26	4,797.28	3,665.61
60	3,105.19	6,683.46	4,796.55	3,454.93	2,708.50
72	2,573.40	4,985.87	3,653.02	2,707.75	2,167.74
84	2,200.06	3,957.73	2,957.28	2,241.08	1,820.80
96	1,927.95	3,268.23	2,496.88	1,916.90	1,579.88
108	1,729.74	2,802.49	2,166.50	1,686.69	1,390.89
120	1,561.61	2,448.36	1,917.48	1,511.21	**
144	1,320.85	1,979.07	1,578.10	**	**
168	1,148.13	1,668.74	1,340.73	**	**
180	**	1,548.02	**	**	**
192	**	1,448.17	**	**	**
216	**	**	**	**	**
240	**	**	**	**	**

NOTES

1. Beam capacities include strut weight, which must be deducted from listed capacities to derive net capacities.
2. Permissible loads based on uniform loads and simple support. To find capacities of loaded beams at midspan, multiply capacity by 0.50 and deflection by 0.80.
3. Beam capacities shown for strut without holes. Multiply by 0.88 for strut with holes.

Bearing Load may limit load
** We Do Not recommend - KL/r exceeds 200
Minimum material thickness - 0.096" thick





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