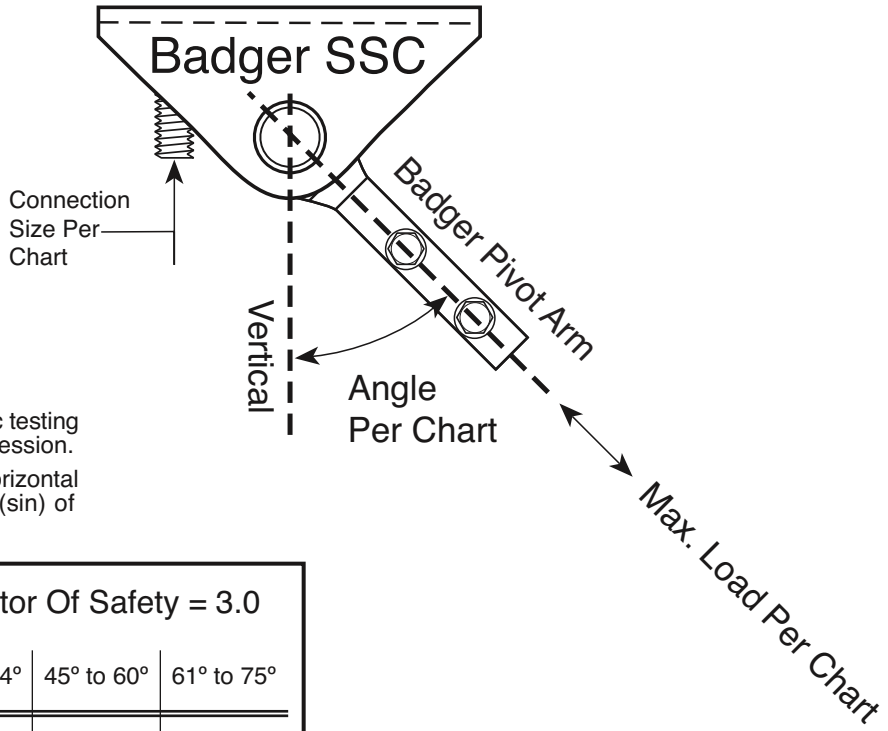
BADGER INDUSTRIES - Part SSC



NOTES:
Capacity of bracket based on seismic testing considering both tension and compression.

To convert listed angle capacity to horizontal capacity multiply listed capacity by (sin) of the angle.

Allowable Load with Factor Of Safety = 3.0

Connection Size	Bracing Type	30° to 44°	45° to 60°	61° to 75°
1/2 In.	**Rigid**	**1,602 lbs.**	**1,602 lbs.**	**1,195 lbs.**
5/8 In.	**Rigid**	**1,602 lbs.**	**1,602 lbs.**	**1,195 lbs.**

(LRFD) Load with Factor Of Safety = 2.0

Connection Size	Bracing Type	30° to 44°	45° to 60°	61° to 75°
1/2 In.	**Rigid**	**2,403 lbs.**	**2,403 lbs.**	**1,793 lbs.**
5/8 In.	**Rigid**	**2,403 lbs.**	**2,403 lbs.**	**1,793 lbs.**

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Contact: Brad Lawhorn (714) 929-8668

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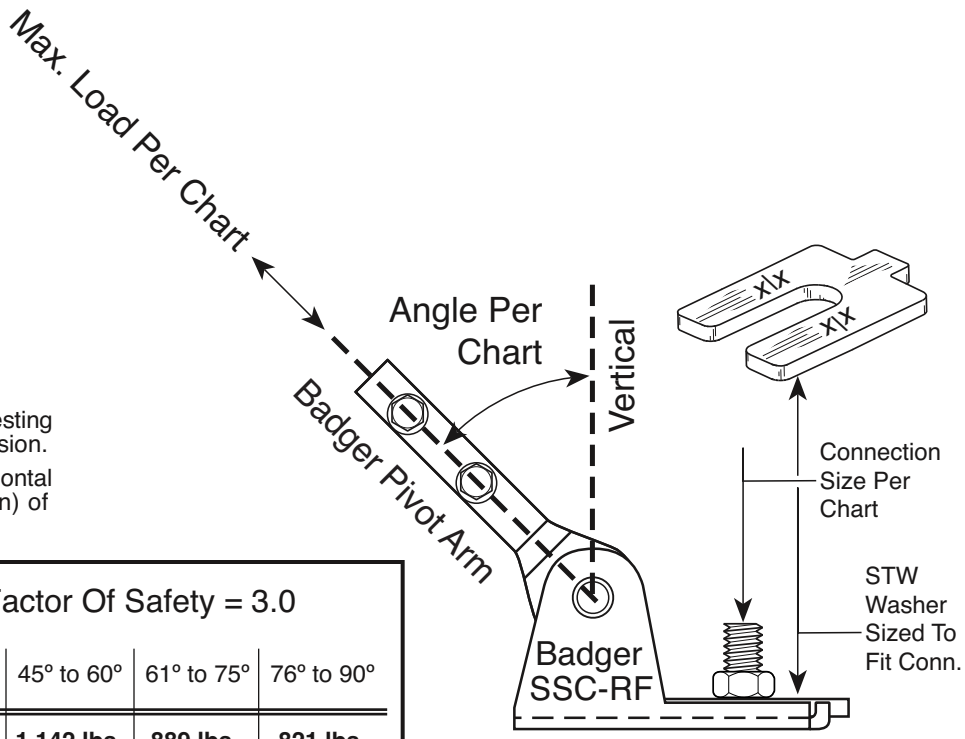
BADGER INDUSTRIES - Part SSC-RF



NOTES:
Capacity of bracket based on seismic testing considering both tension and compression.

To convert listed angle capacity to horizontal capacity multiply listed capacity by (sin) of the angle.

Allowable Load with Factor Of Safety = 3.0

Connection Size	Bracing Type	30° to 44°	45° to 60°	61° to 75°	76° to 90°
3/8 In.	**Rigid**	**1,451 lbs.**	**1,142 lbs.**	**889 lbs.**	**821 lbs.**
1/2 In.	**Rigid**	**1,451 lbs.**	**1,142 lbs.**	**889 lbs.**	**821 lbs.**
5/8 In.	**Rigid**	**1,451 lbs.**	**1,142 lbs.**	**889 lbs.**	**821 lbs.**
3/4 In.	**Rigid**	**1,451 lbs.**	**1,142 lbs.**	**889 lbs.**	**821 lbs.**

(LRFD) Load with Factor Of Safety = 2.0

Connection Size	Bracing Type	30° to 44°	45° to 60°	61° to 75°	76° to 90°
3/8 In.	**Rigid**	**2,176 lbs.**	**1,714 lbs.**	**1,333 lbs.**	**1,232 lbs.**
1/2 In.	**Rigid**	**2,176 lbs.**	**1,714 lbs.**	**1,333 lbs.**	**1,232 lbs.**
5/8 In.	**Rigid**	**2,176 lbs.**	**1,714 lbs.**	**1,333 lbs.**	**1,232 lbs.**
3/4 In.	**Rigid**	**2,176 lbs.**	**1,714 lbs.**	**1,333 lbs.**	**1,232 lbs.**

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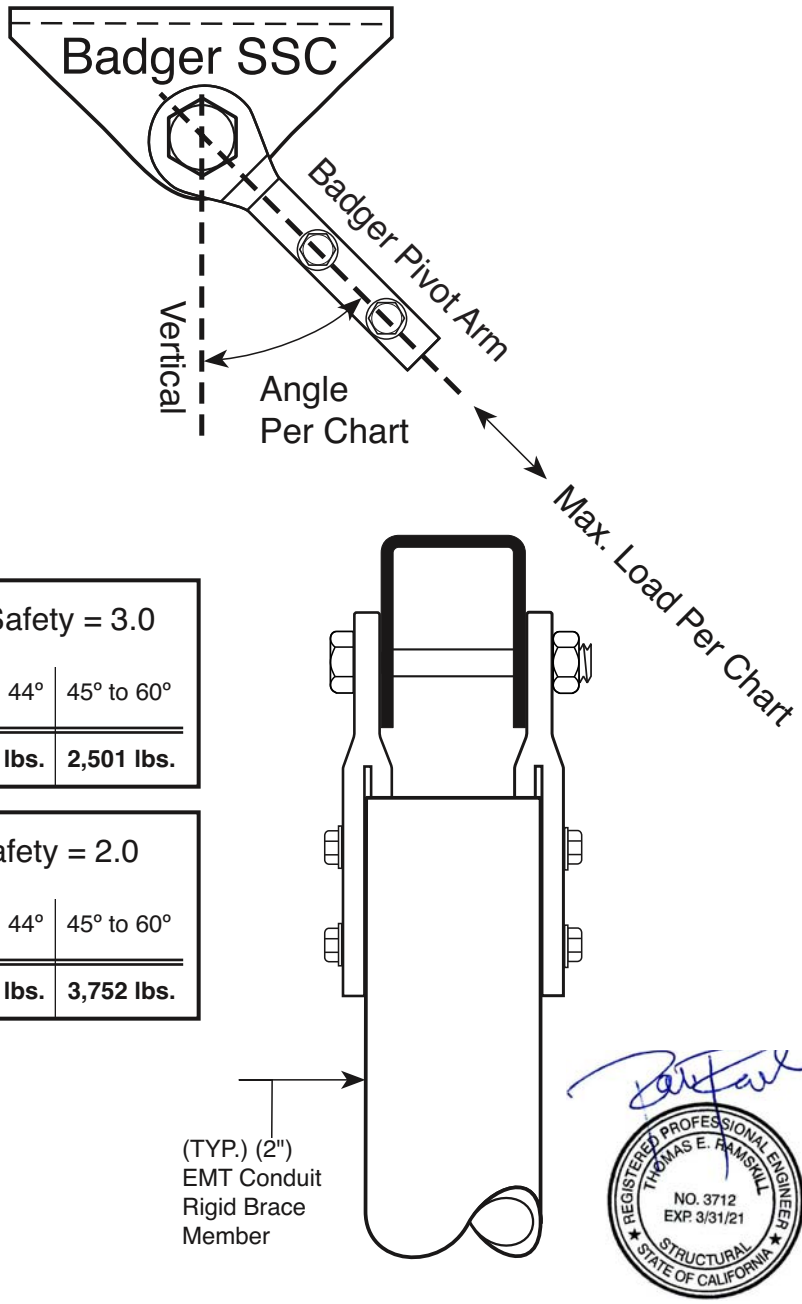
BADGER INDUSTRIES - Part SSC-HD



NOTES:
Capacity of bracket based on seismic testing considering both tension and compression.

To convert listed angle capacity to horizontal capacity multiply listed capacity by (sin) of the angle.

Allowable Load with Factor Of Safety = 3.0

Connection Size	Bracing Type	0°	30° to 44°	45° to 60°
(2) - 1/2 In.	**Rigid**	**2,501 lbs.**	**2,501 lbs.**	**2,501 lbs.**

(LRFD) Load with Factor Of Safety = 2.0

Connection Size	Bracing Type	0°	30° to 44°	45° to 60°
(2) - 1/2 In.	**Rigid**	**3,752 lbs.**	**3,752 lbs.**	**3,752 lbs.**

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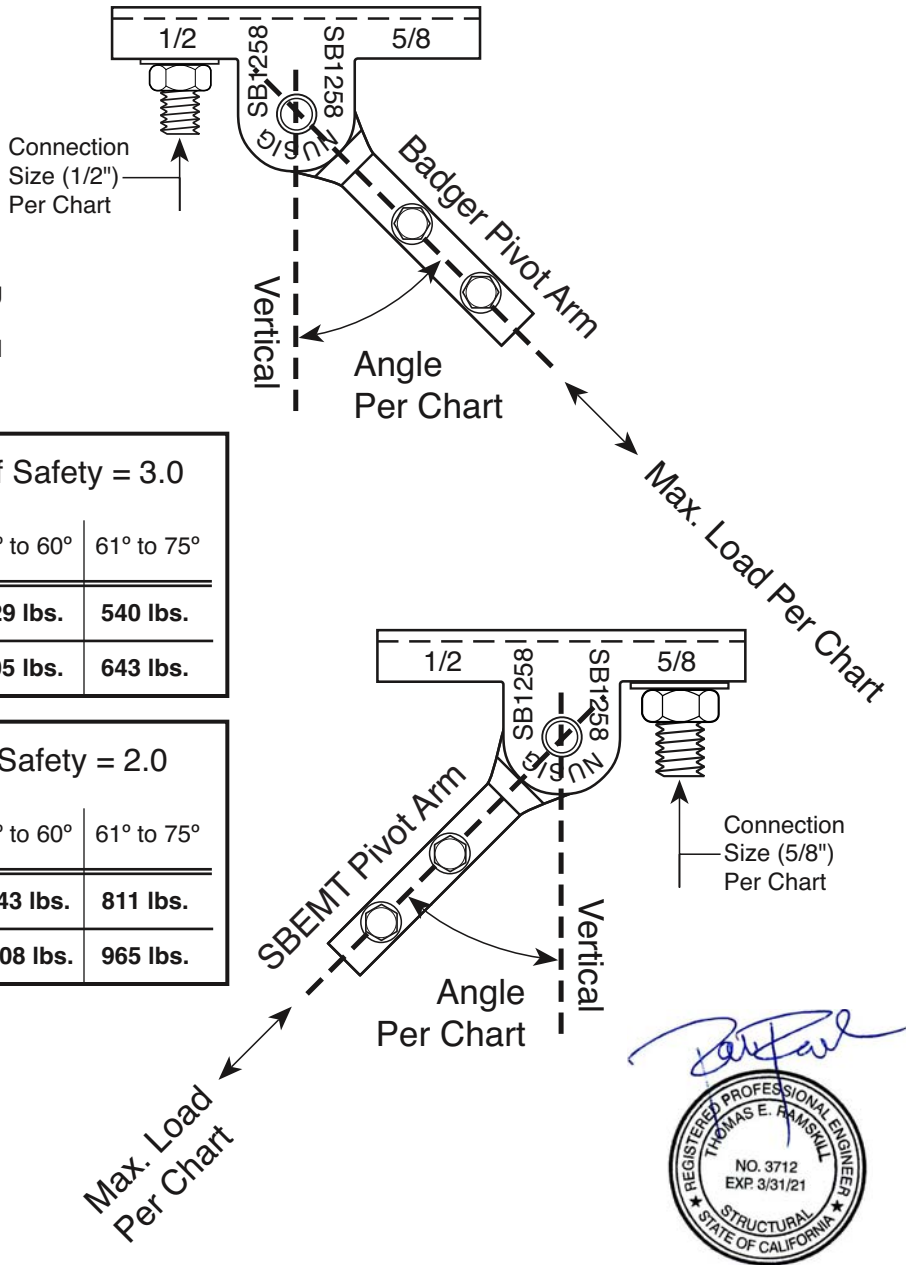
BADGER INDUSTRIES - Part NUSIG SB1258

Patent #9,777,870



NOTES:
Capacity of bracket based on seismic testing considering both tension and compression.

To convert listed angle capacity to horizontal capacity multiply listed capacity by (sin) of the angle.

Allowable Load with Factor Of Safety = 3.0

Connection Size	Bracing Type	30° to 44°	45° to 60°	61° to 75°
1/2 In.	**Rigid**	**962 lbs.**	**629 lbs.**	**540 lbs.**
5/8 In.	**Rigid**	**972 lbs.**	**805 lbs.**	**643 lbs.**

(LRFD) Load with Factor Of Safety = 2.0

Connection Size	Bracing Type	30° to 44°	45° to 60°	61° to 75°
1/2 In.	**Rigid**	**1,443 lbs.**	**943 lbs.**	**811 lbs.**
5/8 In.	**Rigid**	**1,458 lbs.**	**1,208 lbs.**	**965 lbs.**

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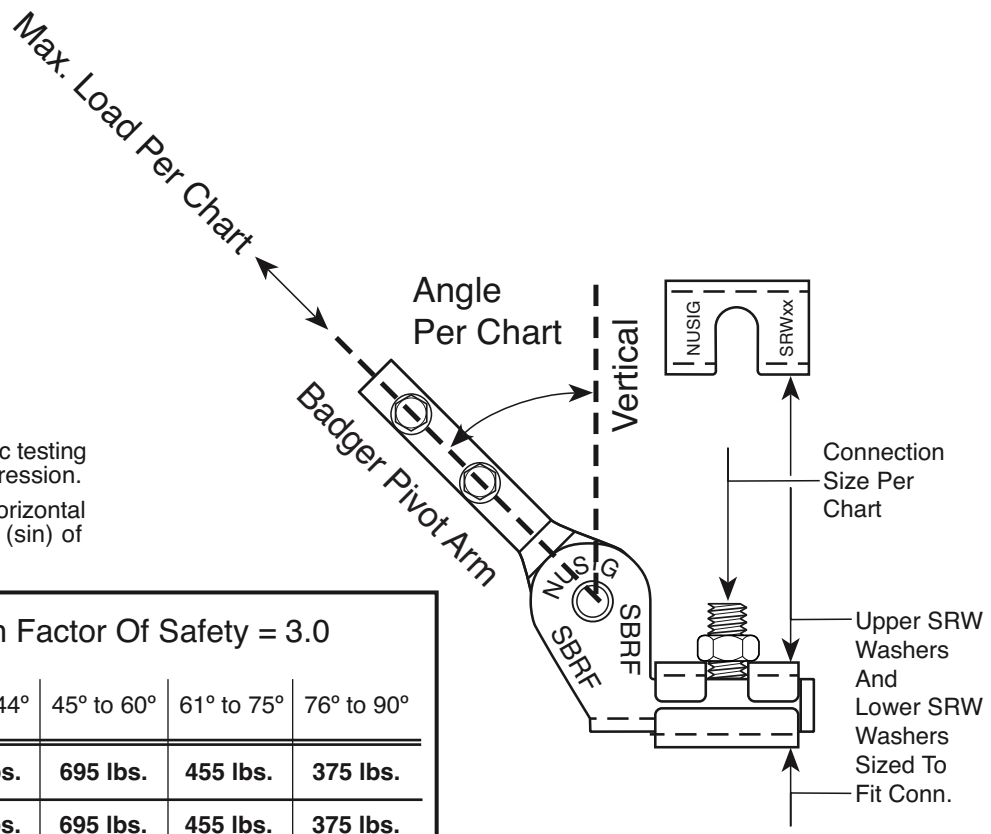
BADGER INDUSTRIES - Part NUSIG SBRF

Patent #9,777,870



NOTES:
Capacity of bracket based on seismic testing considering both tension and compression.

To convert listed angle capacity to horizontal capacity multiply listed capacity by (sin) of the angle.

Allowable Load with Factor Of Safety = 3.0

Connection Size	Bracing Type	30° to 44°	45° to 60°	61° to 75°	76° to 90°
3/8 In.	**Rigid**	**688 lbs.**	**695 lbs.**	**455 lbs.**	**375 lbs.**
1/2 In.	**Rigid**	**688 lbs.**	**695 lbs.**	**455 lbs.**	**375 lbs.**
5/8 In.	**Rigid**	**688 lbs.**	**695 lbs.**	**455 lbs.**	**375 lbs.**

(LRFD) Load with Factor Of Safety = 2.0

Connection Size	Bracing Type	30° to 44°	45° to 60°	61° to 75°	76° to 90°
3/8 In.	**Rigid**	**1,033 lbs.**	**1,043 lbs.**	**682 lbs.**	**535 lbs.**
1/2 In.	**Rigid**	**1,033 lbs.**	**1,043 lbs.**	**682 lbs.**	**535 lbs.**
5/8 In.	**Rigid**	**1,033 lbs.**	**1,043 lbs.**	**682 lbs.**	**535 lbs.**

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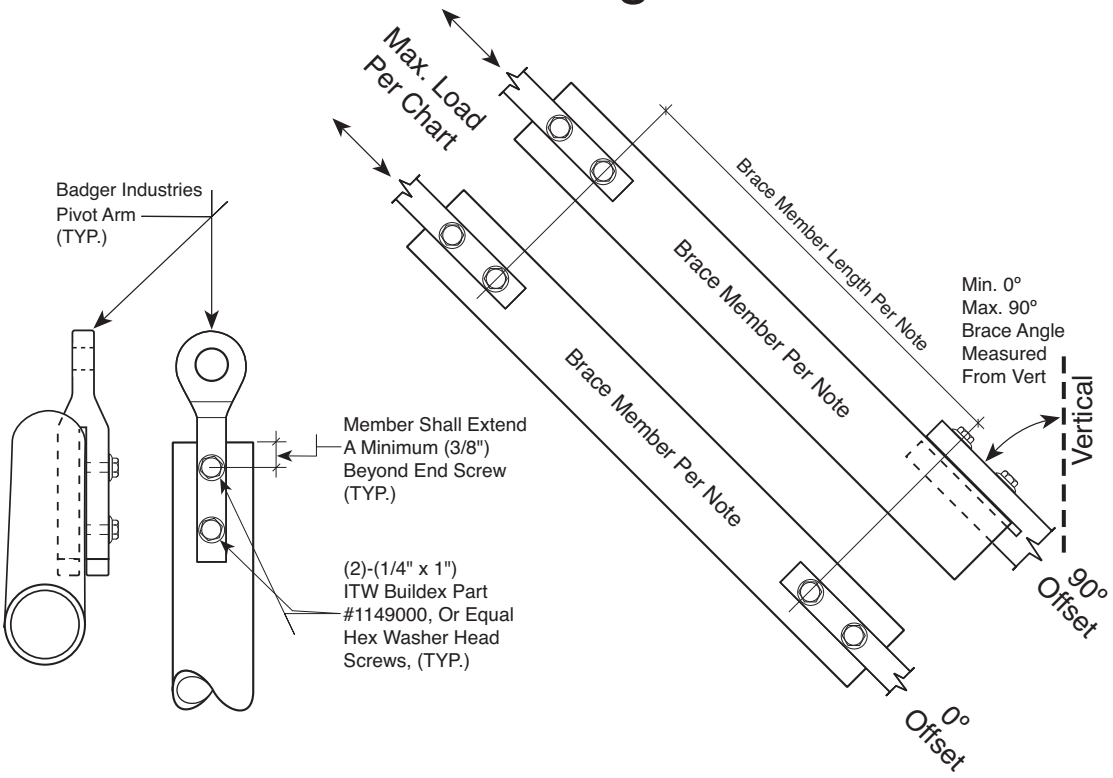
BADGER INDUSTRIES - Rigid Brace Member



NOTES:
Capacity based on seismic testing considering both tension and compression. To convert chart listed angle capacity to horizontal capacity multiply listed capacity by (sin) of the angle.

Capacities listed within the chart on this sheet do not account for brace length compression capacity. Thus, calculations demonstrating the applied design demand loads are less than the brace member length compression capacity shall be submitted for plan check.

Brace member shall be EMT Conduit sizes (3/4" thru 2-1/2"). Conduit shall be steel tubing constructed to UL-797 Or ANSI C-80.3. Schedule 5 or schedule 7 steel pipe with an equal or larger nominal size, and a minimum yield strength of 30,000 psi can be used in place of conduit. Brace member shall be installed as a straight, (1) piece continuous member. Screws shall not be installed into brace member weld seam. 12 gauge strut or 90° angle can be used in place of conduit.

Allowable Load with Factor Of Safety = 3.0

EMTConduit Nominal Size	0° to 90°
3/4 in.	618 lbs.
1 in.	973 lbs.
1-1/4 in.	1,305 lbs.
1-1/2 in.	1,177 lbs.
2 in.	1,118 lbs.
2-1/2 in.	1,119 lbs.

(LRFD) Load with Factor Of Safety = 2.0

EMTConduit Nominal Size	0° to 90°
3/4 in.	927 lbs.
1 in.	1,459 lbs.
1-1/4 in.	1,958 lbs.
1-1/2 in.	1,765 lbs.
2 in.	1,677 lbs.
2-1/2 in.	1,678 lbs.

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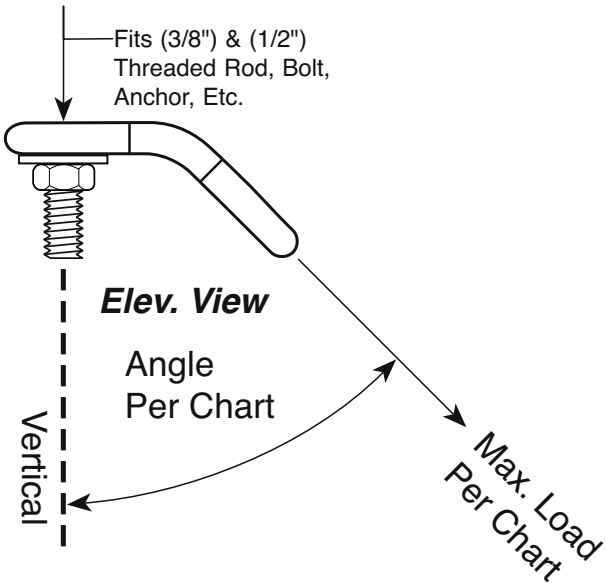
BADGER INDUSTRIES - Part SWB

Patent Pending



NOTES:
Capacity of bracket based on testing considering tension only.

To convert listed angle capacity to horizontal capacity multiply listed capacity by (sin) of the angle.

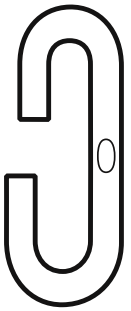
Allowable Load with Factor Of Safety = 3.0

Connection Size	Bracing Type	30° to 60°
3/8 In.	**Tension**	**472 lbs.**
1/2 In.	**Tension**	**522 lbs.**

(LRFD) Load with Factor Of Safety = 2.0

Connection Size	Bracing Type	30° to 60°
3/8 In.	**Tension**	**708 lbs.**
1/2 In.	**Tension**	**783 lbs.**

Badger SWB



(1) End Fits (3/8") Connection Size

Plan View

(1) End Fits (1/2") Connection Size

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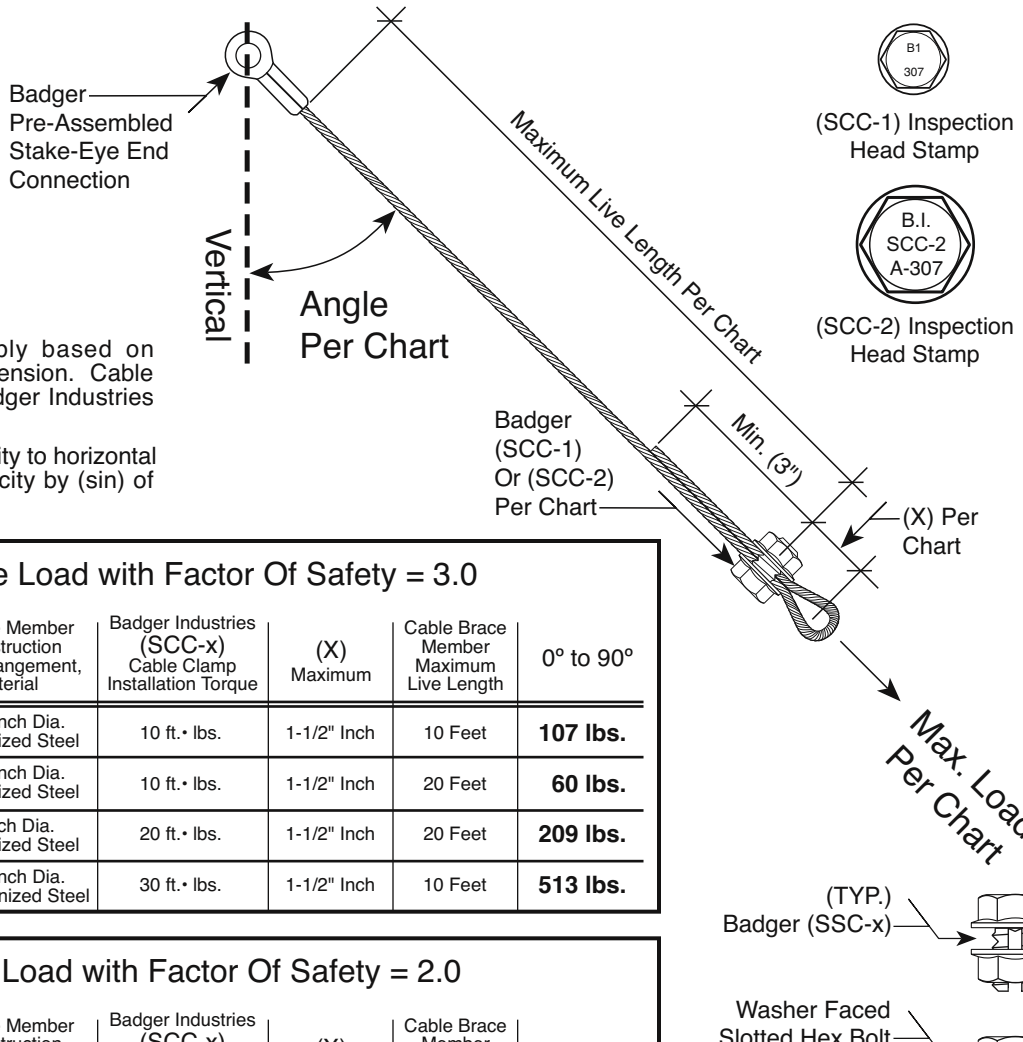
Badger Industries - Cable Brace Member



NOTES:
Capacity of cable assembly based on seismic testing considering tension. Cable ends to be connected to Badger Industries COLA listed components.

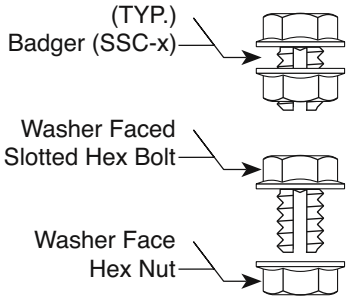
To convert listed angle capacity to horizontal capacity multiply listed capacity by (sin) of the angle.

Allowable Load with Factor Of Safety = 3.0

Badger Industries (SCC-x) Cable Clamp Seismic Hardware Part Number	Cable Brace Member Size, Construction Strands / Arrangement, And Material	Badger Industries (SCC-x) Cable Clamp Installation Torque	(X) Maximum	Cable Brace Member Maximum Live Length	0° to 90°
SCC-1	Min. (1/16") Inch Dia. (7x7) Galvanized Steel	10 ft.• lbs.	1-1/2" Inch	10 Feet	**107 lbs.**
SCC-1	Min. (1/16") Inch Dia. (7x7) Galvanized Steel	10 ft.• lbs.	1-1/2" Inch	20 Feet	**60 lbs.**
SCC-2	Min. (1/8") Inch Dia. (7x7) Galvanized Steel	20 ft.• lbs.	1-1/2" Inch	20 Feet	**209 lbs.**
SCC-2	Min. (3/16") Inch Dia. (7x19) Galvanized Steel	30 ft.• lbs.	1-1/2" Inch	10 Feet	**513 lbs.**

(LRFD) Load with Factor Of Safety = 2.0

Badger Industries (SCC-x) Cable Clamp Seismic Hardware Part Number	Cable Brace Member Size, Construction Strands / Arrangement, And Material	Badger Industries (SCC-x) Cable Clamp Installation Torque	(X) Maximum	Cable Brace Member Maximum Live Length	0° to 90°
SCC-1	Min. (1/16") Inch Dia. (7x7) Galvanized Steel	10 ft.• lbs.	1-1/2" Inch	10 Feet	**161 lbs.**
SCC-1	Min. (1/16") Inch Dia. (7x7) Galvanized Steel	10 ft.• lbs.	1-1/2" Inch	20 Feet	**90 lbs.**
SCC-2	Min. (1/8") Inch Dia. (7x7) Galvanized Steel	20 ft.• lbs.	1-1/2" Inch	20 Feet	**314 lbs.**
SCC-2	Min. (3/16") Inch Dia. (7x19) Galvanized Steel	30 ft.• lbs.	1-1/2" Inch	10 Feet	**769 lbs.**



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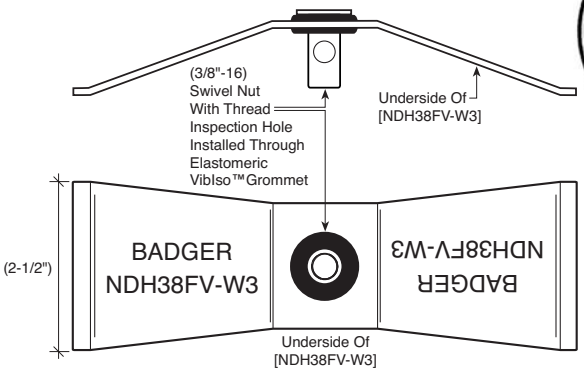
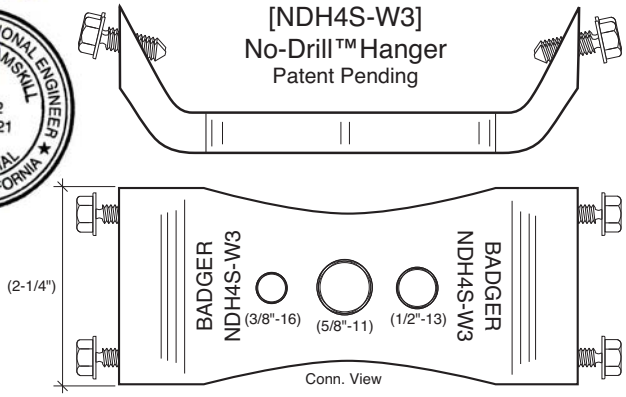
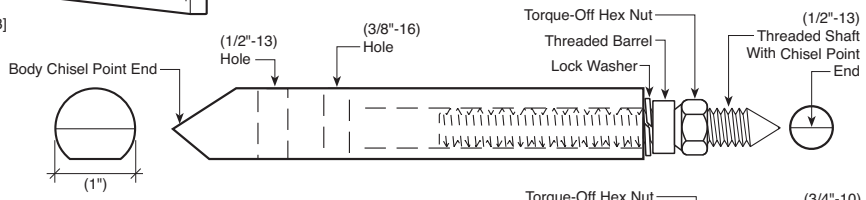
BADGER INDUSTRIES
[NDH38FV-W3]
Vibration Isolation
No-Drill™Hanger
Patented



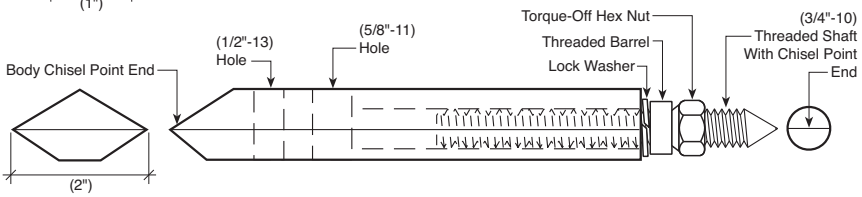
BADGER INDUSTRIES
[NDH4S-W3]
No-Drill™Hanger
Patent Pending



BADGER INDUSTRIES
[MDH3812]
No-Drill™Hanger
Patent #9,850,659



BADGER INDUSTRIES
[MDH1258]
No-Drill™Hanger
Patent #9,850,659



VERTICAL HANGER INSTALLATIONS

Design Demand Application Usage	[NDH38FV-W3] Maximum Capacity	[MDH3812] Maximum Capacity	[MDH1258] Maximum Capacity	[NDH4S-W3] Maximum Capacity			
Gravity (ASD)	65 lbs.	200 lbs.	300 lbs.	728 lbs.	630 lbs.	570 lbs.	470 lbs.
Gravity + Seismic (ASD)	130 lbs.	255 lbs.	537 lbs.	970 lbs.	840 lbs.	760 lbs.	626 lbs.
Gravity + Seismic (LRFD)	182 lbs.	385 lbs.	806 lbs.	1,456 lbs.	1,260 lbs.	1,140 lbs.	940 lbs.
Minimum Between Spacing	2-1/2 in.	2 in.	3 in.	16 in.	10 in.	6 in.	2-1/4 in.
Minimum Edge Distance	6 in.	6 in.	6 in.	6 in.	6 in.	6 in.	6 in.

Install and inspect per manufacturers most current instructions.

Listed capacities do not included seismic concrete omega.
Seismic concrete omega not required for all listed Gravity (ASD) capacities.
Seismic concrete omega not required for all listed [NDH38FV-W3] capacities, as this component is a ductile failure performance component.

For Gravity + Seismic Usage, the gravity design demand shall no exceed the listed Gravity (ASD) capacity.

Use of double or quadruple Badger No-Drill™Hangers with span member shall be engineered by registered California engineer.

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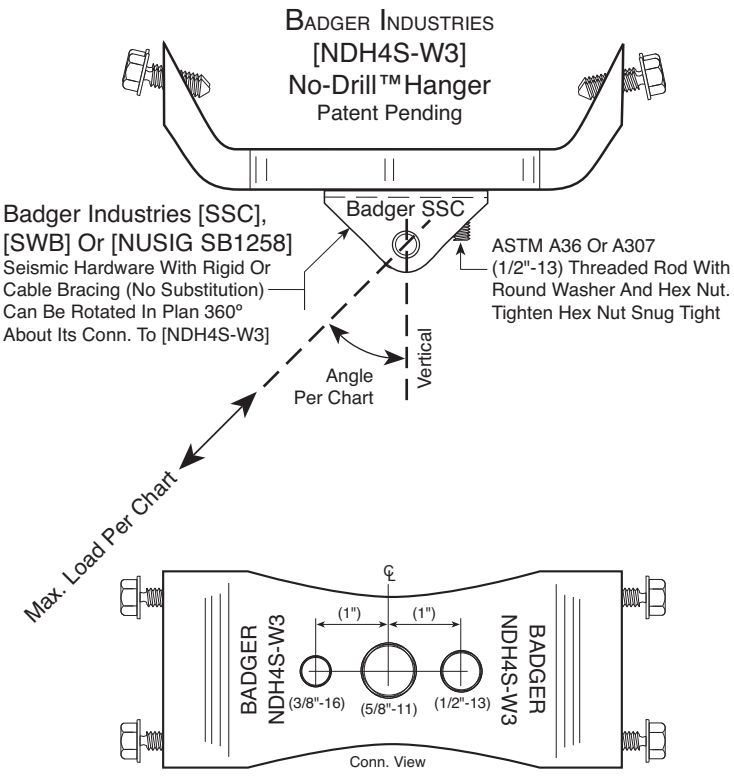

[NDH4S-W3]
SEISMIC BRACE INSTALLATIONS

Design Demand Application Type	30° to 60° Maximum Capacity
Seismic Brace (ASD)	767 lbs.
Seismic Brace (LRFD)	1,151 lbs.
Minimum Between Spacing	24 in.
Minimum Edge Distance	12 in.

Install and inspect per manufacturers most current instructions.

Listed capacities do not included seismic concrete omega.

To convert listed angle capacity to horizontal capacity multiply listed capacity by (sin) of the angle.

Use of double or quadruple Badger No-Drill™Hangers with span member shall be engineered by registered California engineer.

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BADGER INDUSTRIES - Part SBC158

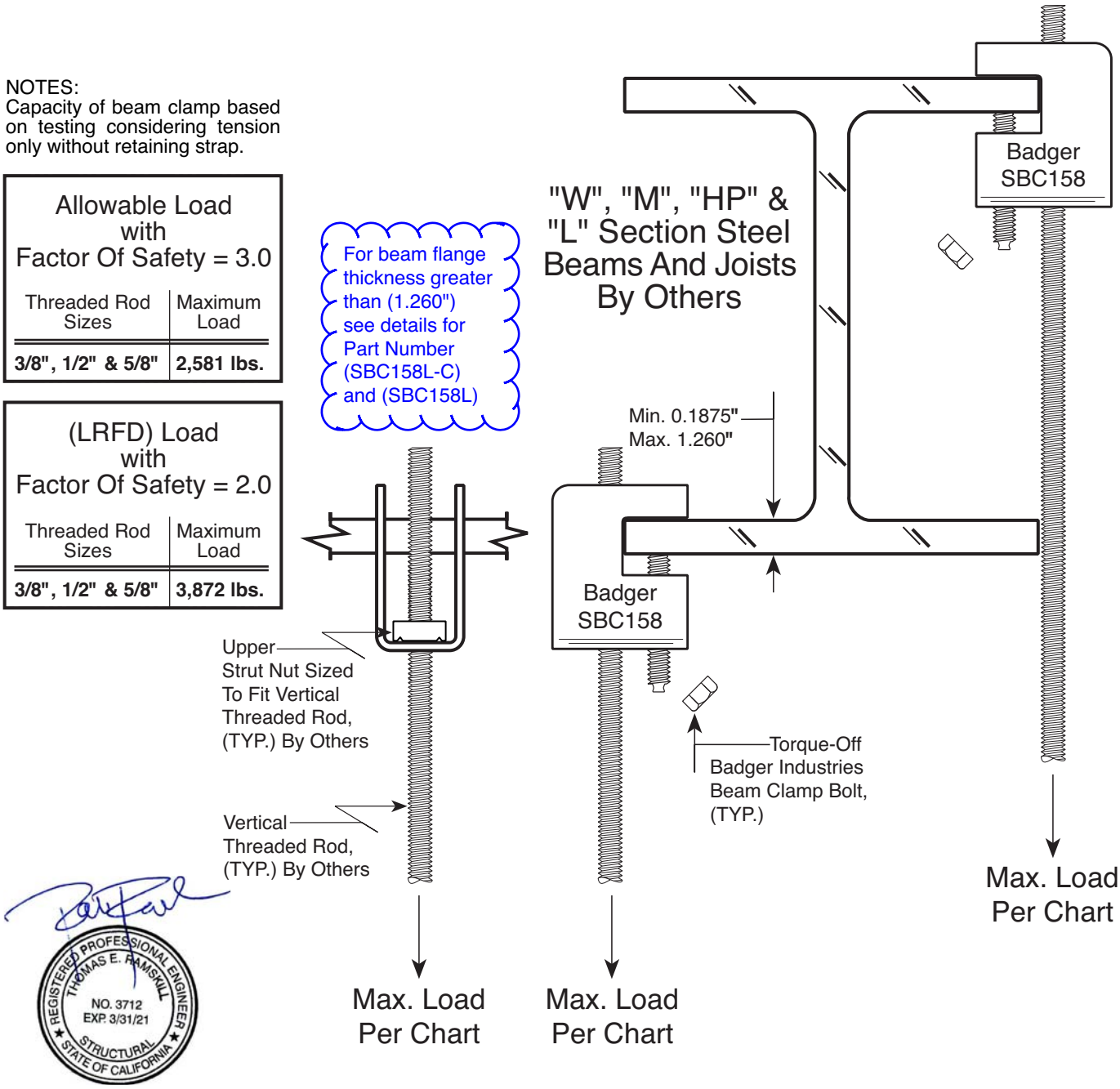
Patent Pending

NOTES:
Capacity of beam clamp based on testing considering tension only without retaining strap.

Allowable Load with Factor Of Safety = 3.0	
Threaded Rod Sizes	Maximum Load
3/8", 1/2" & 5/8"	**2,581 lbs.**

(LRFD) Load with Factor Of Safety = 2.0	
Threaded Rod Sizes	Maximum Load
3/8", 1/2" & 5/8"	**3,872 lbs.**

For beam flange thickness greater than (1.260") see details for Part Number (SBC158L-C) and (SBC158L)



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BADGER INDUSTRIES - Part SBC158

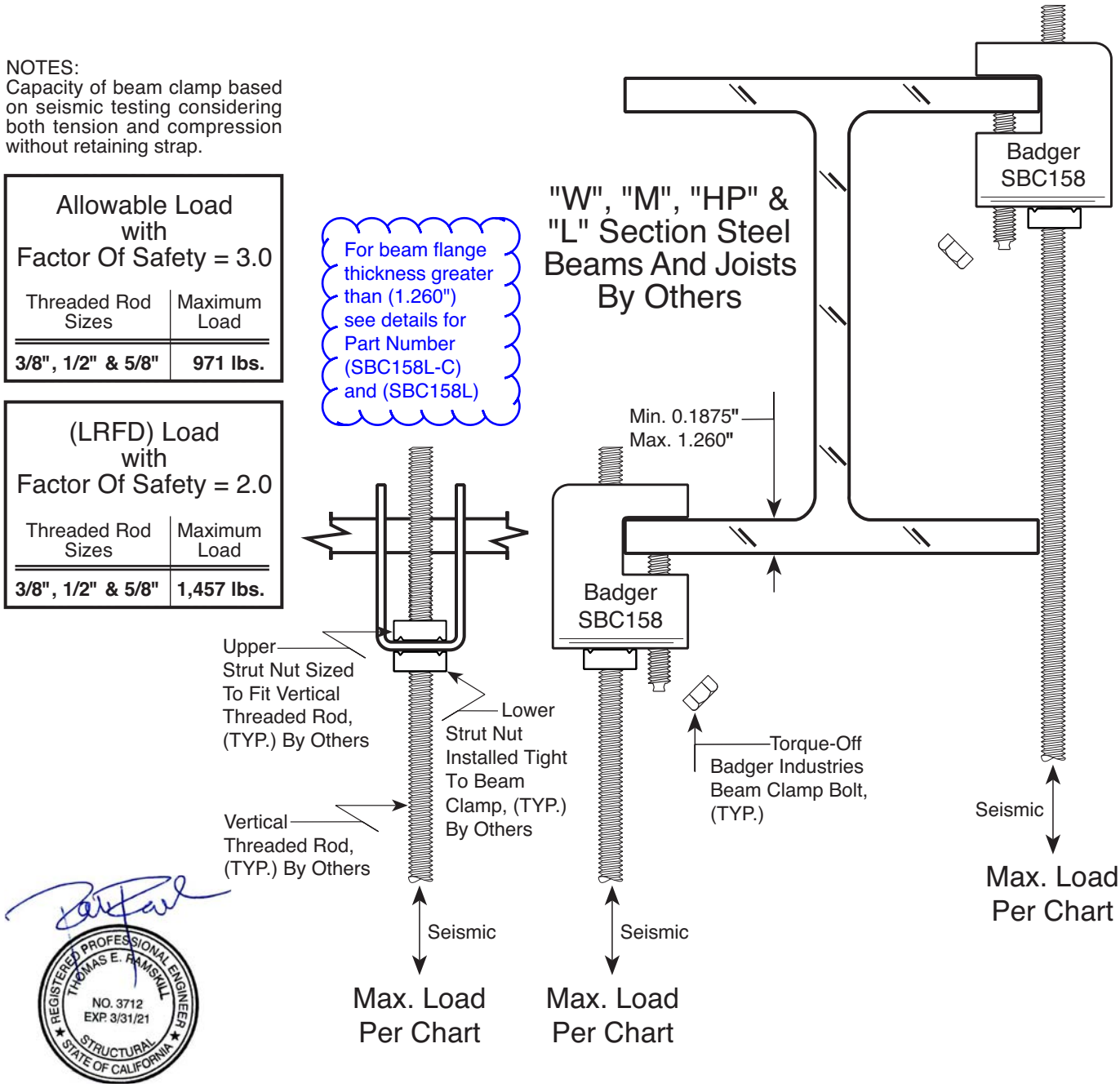
Patent Pending

NOTES:
Capacity of beam clamp based on seismic testing considering both tension and compression without retaining strap.

Allowable Load with Factor Of Safety = 3.0	
Threaded Rod Sizes	Maximum Load
3/8", 1/2" & 5/8"	**971 lbs.**

(LRFD) Load with Factor Of Safety = 2.0	
Threaded Rod Sizes	Maximum Load
3/8", 1/2" & 5/8"	**1,457 lbs.**

For beam flange thickness greater than (1.260") see details for Part Number (SBC158L-C) and (SBC158L)



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BADGER INDUSTRIES - Part SBC158

Patent Pending

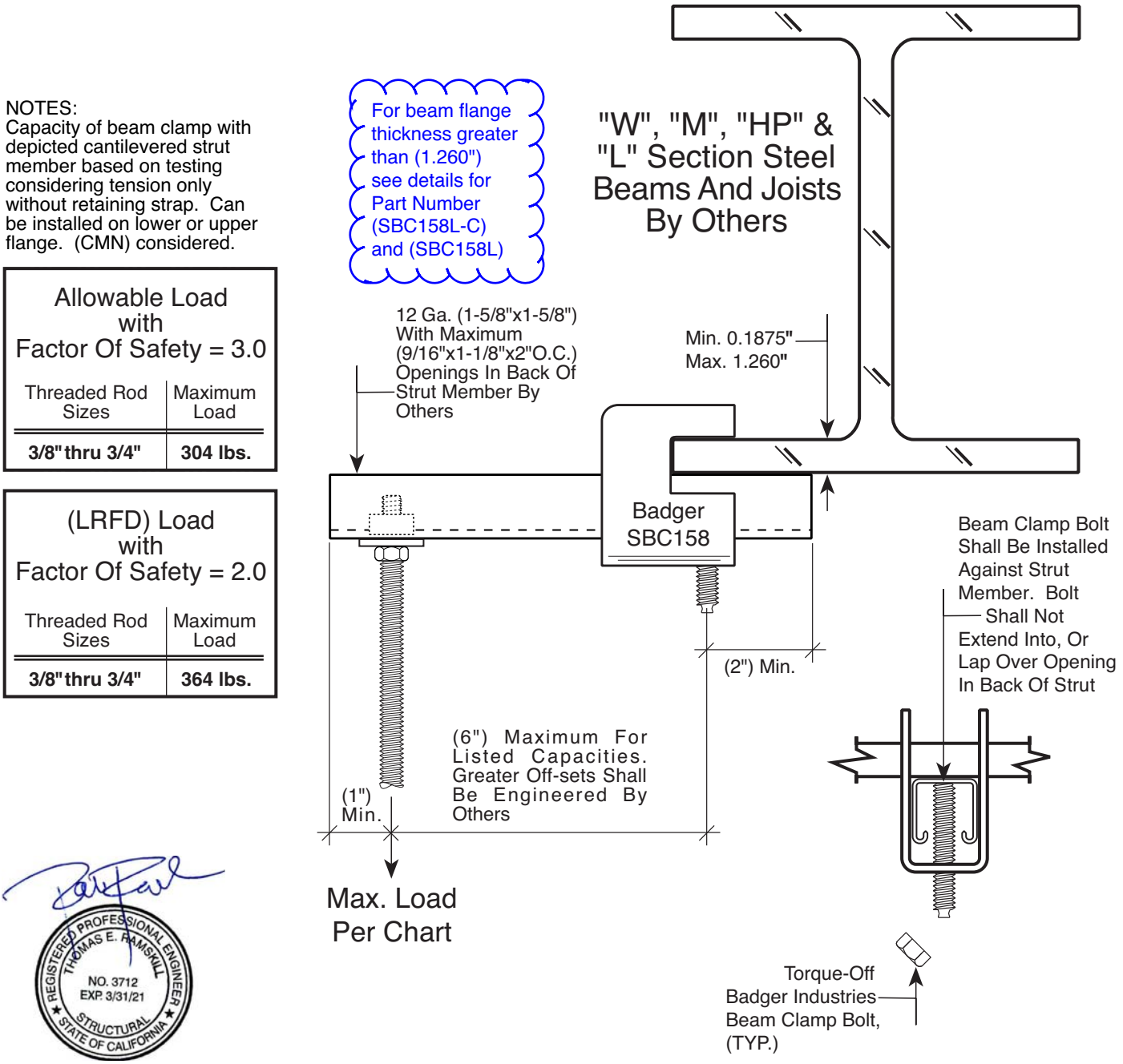
NOTES:
Capacity of beam clamp with depicted cantilevered strut member based on testing considering tension only without retaining strap. Can be installed on lower or upper flange. (CMN) considered.

Allowable Load with Factor Of Safety = 3.0

Threaded Rod Sizes	Maximum Load
3/8"thru 3/4"	**304 lbs.**

(LRFD) Load with Factor Of Safety = 2.0

Threaded Rod Sizes	Maximum Load
3/8"thru 3/4"	**364 lbs.**



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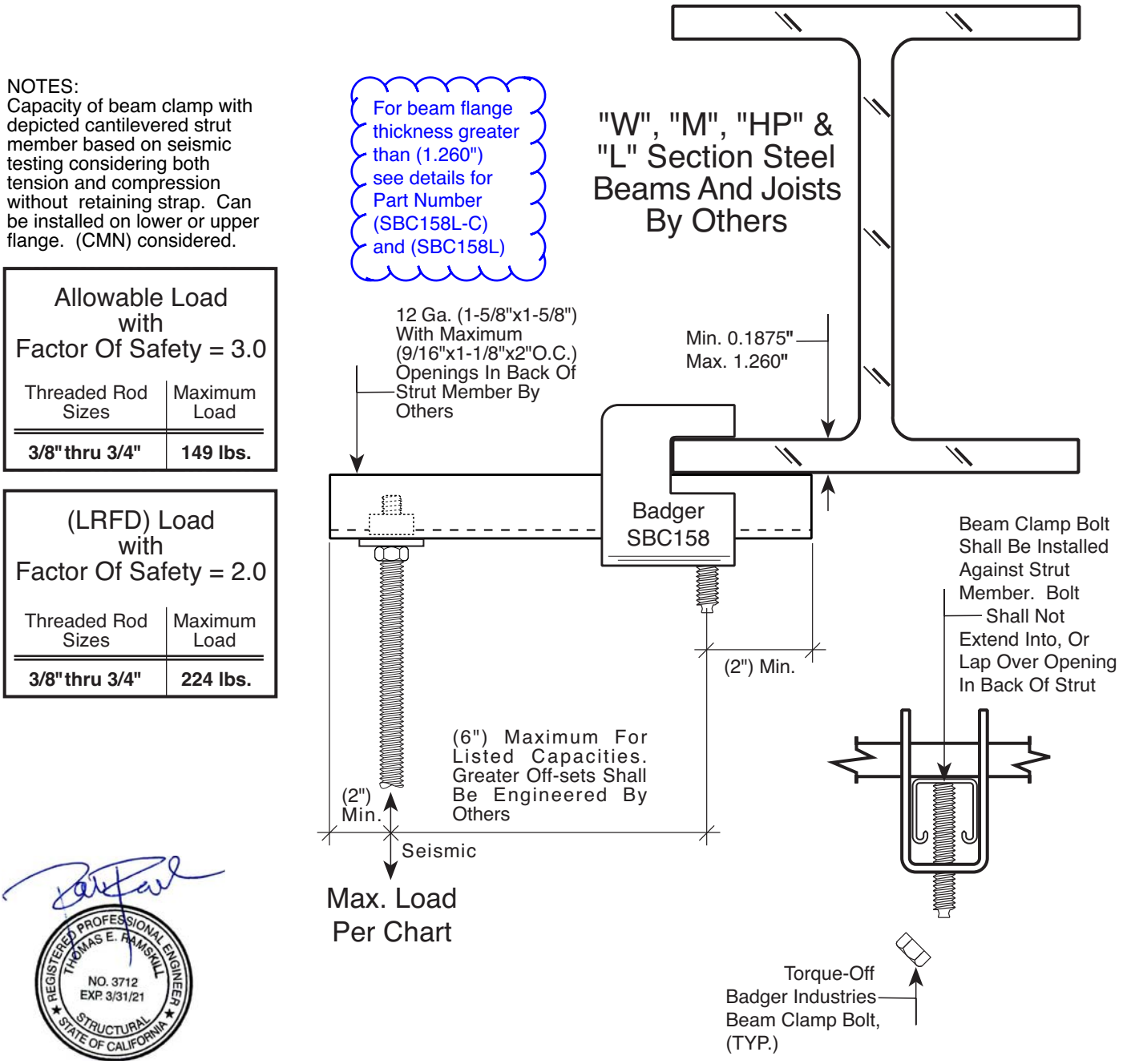
NOTES:
Capacity of beam clamp with depicted cantilevered strut member based on seismic testing considering both tension and compression without retaining strap. Can be installed on lower or upper flange. (CMN) considered.

Allowable Load with Factor Of Safety = 3.0	
Threaded Rod Sizes	Maximum Load
3/8"thru 3/4"	**149 lbs.**

(LRFD) Load with Factor Of Safety = 2.0	
Threaded Rod Sizes	Maximum Load
3/8"thru 3/4"	**224 lbs.**



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EXP. 3/31/21
STRUCTURAL
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Alamo, CA 94507

BADGER INDUSTRIES - Part SBC158

Patent Pending

NOTES:
Capacity of beam clamps assembled in pairs with depicted cantilevered strut member based on seismic testing considering both tension and compression only without retaining strap(s).

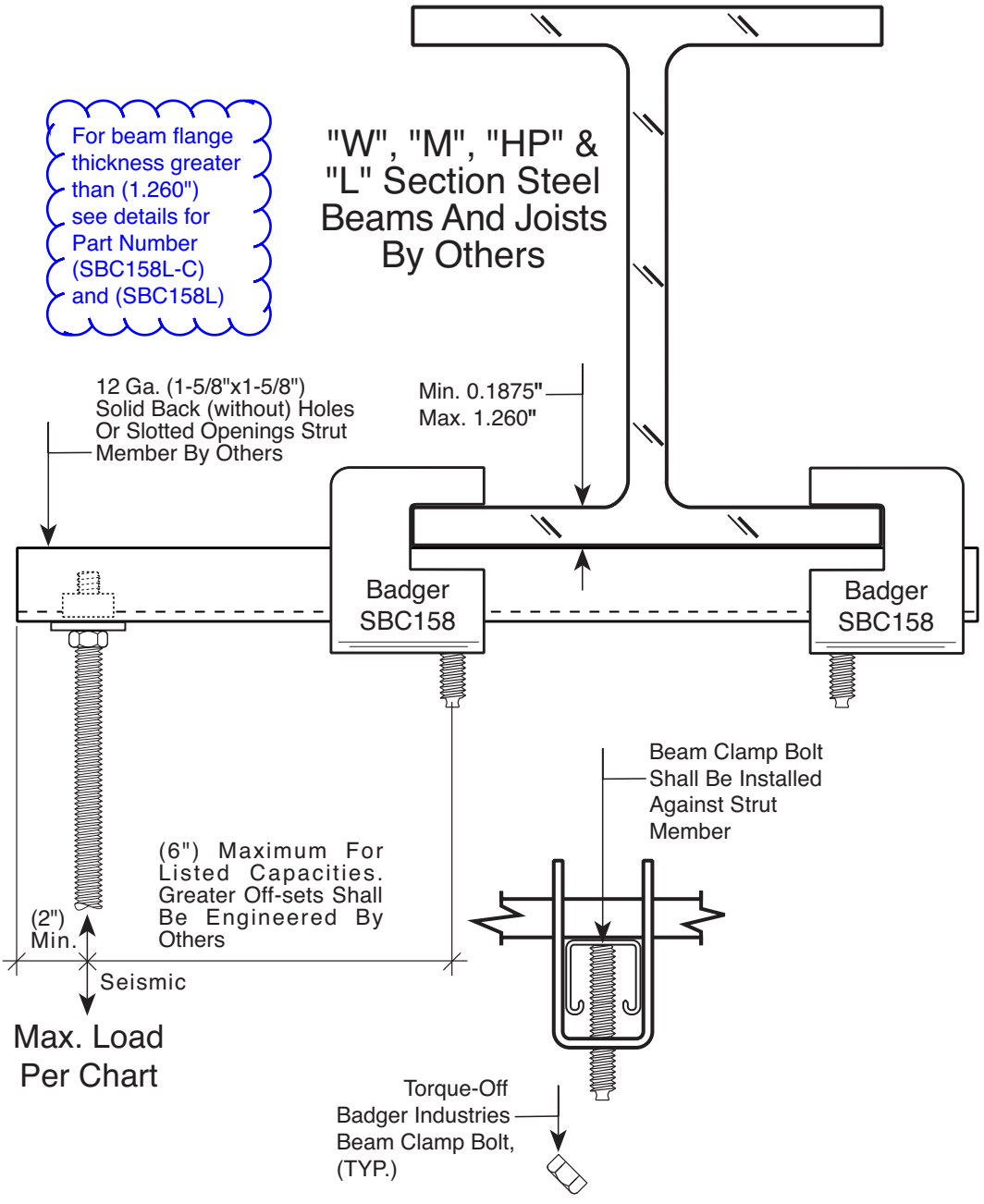
Allowable Load with Factor Of Safety = 3.0

Threaded Rod Sizes	Maximum Load
3/8" thru 3/4"	**677 lbs.**

(LRFD) Load with Factor Of Safety = 2.0

Threaded Rod Sizes	Maximum Load
3/8" thru 3/4"	**1,015 lbs.**

For beam flange thickness greater than (1.260") see details for Part Number (SBC158L-C) and (SBC158L)



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BADGER INDUSTRIES - Part SBC158

Patent Pending

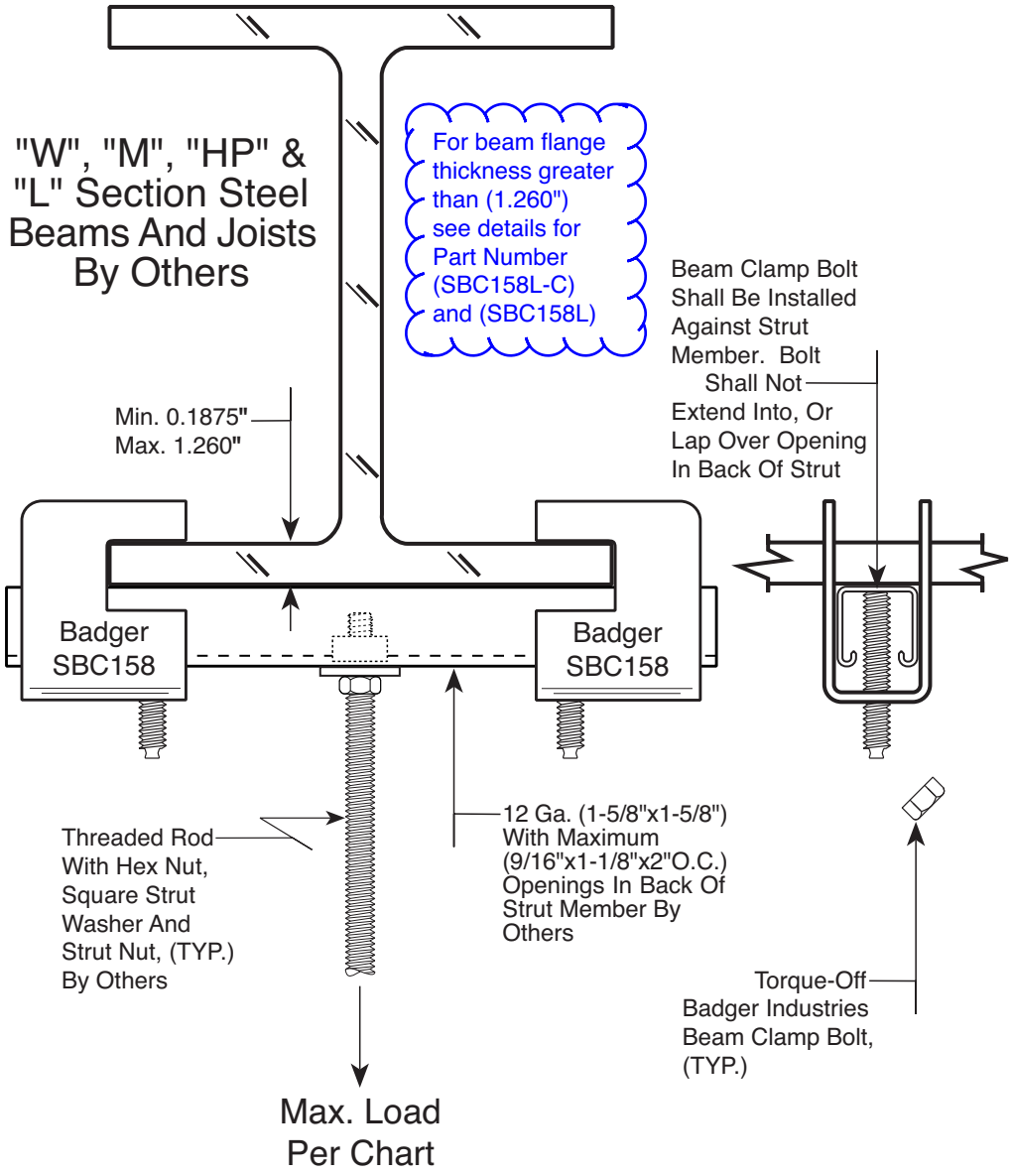
NOTES:
Capacity of beam clamps assembled in pairs with depicted strut member based on testing considering tension only without retaining strap(s).

Double beam clamps with strut span member can be used to span from two separate beams and/or joist.

Reduce listed capacities to comply with design capacity limits, including but not limited to, strut member span length, load placement(s), etc.

Allowable Load with Factor Of Safety = 3.0	
Threaded Rod Sizes	Maximum Load
3/8" thru 3/4"	**2,479 lbs.**

(LRFD) Load with Factor Of Safety = 2.0	
Threaded Rod Sizes	Maximum Load
3/8" thru 3/4"	**3,719 lbs.**



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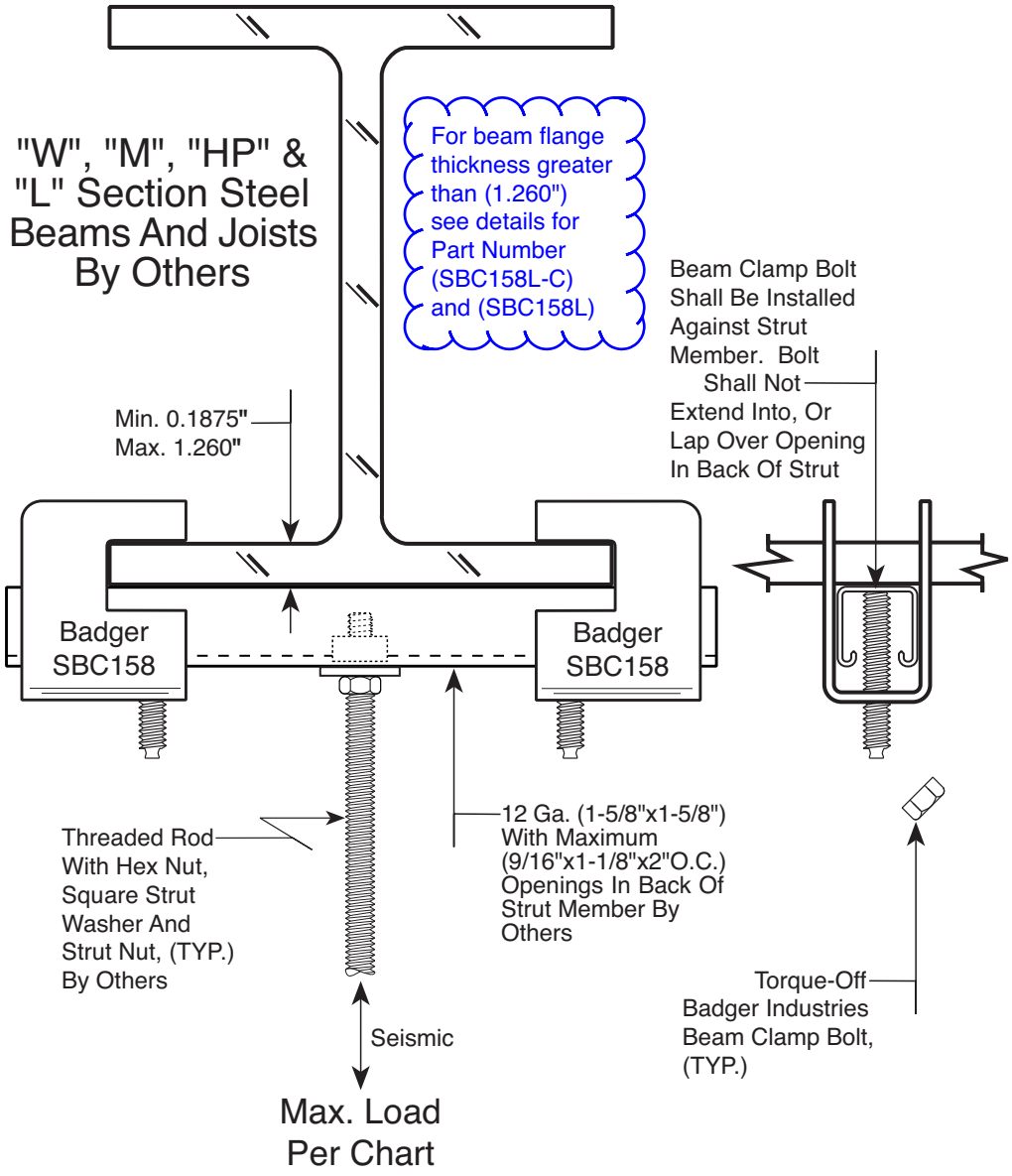
Reduce listed capacities to comply with design capacity limits, including but not limited to, strut member span length, load placement(s), etc.

Allowable Load with Factor Of Safety = 3.0	
Threaded Rod Sizes	Maximum Load
3/8" thru 3/4"	**920 lbs.**

(LRFD) Load with Factor Of Safety = 2.0	
Threaded Rod Sizes	Maximum Load
3/8" thru 3/4"	**1,381 lbs.**



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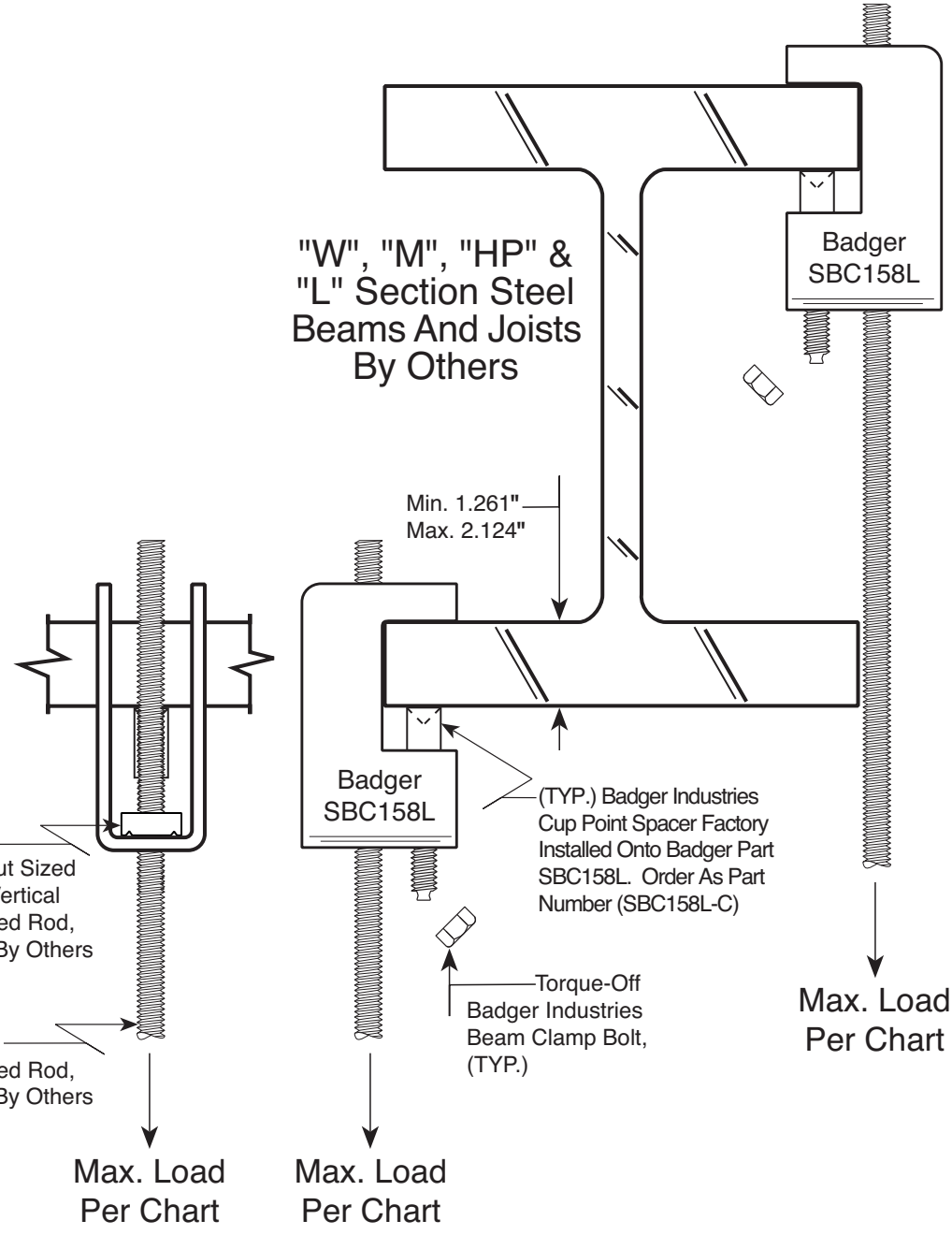
BADGER INDUSTRIES - Part SBC158L-C

Patent Pending

NOTES:
Capacity of beam clamp based on testing considering tension only without retaining strap.

Allowable Load with Factor Of Safety = 3.0	
Threaded Rod Sizes	Maximum Load
3/8" thru 3/4"	**3,247 lbs.**

(LRFD) Load with Factor Of Safety = 2.0	
Threaded Rod Sizes	Maximum Load
3/8" thru 3/4"	**4,871 lbs.**



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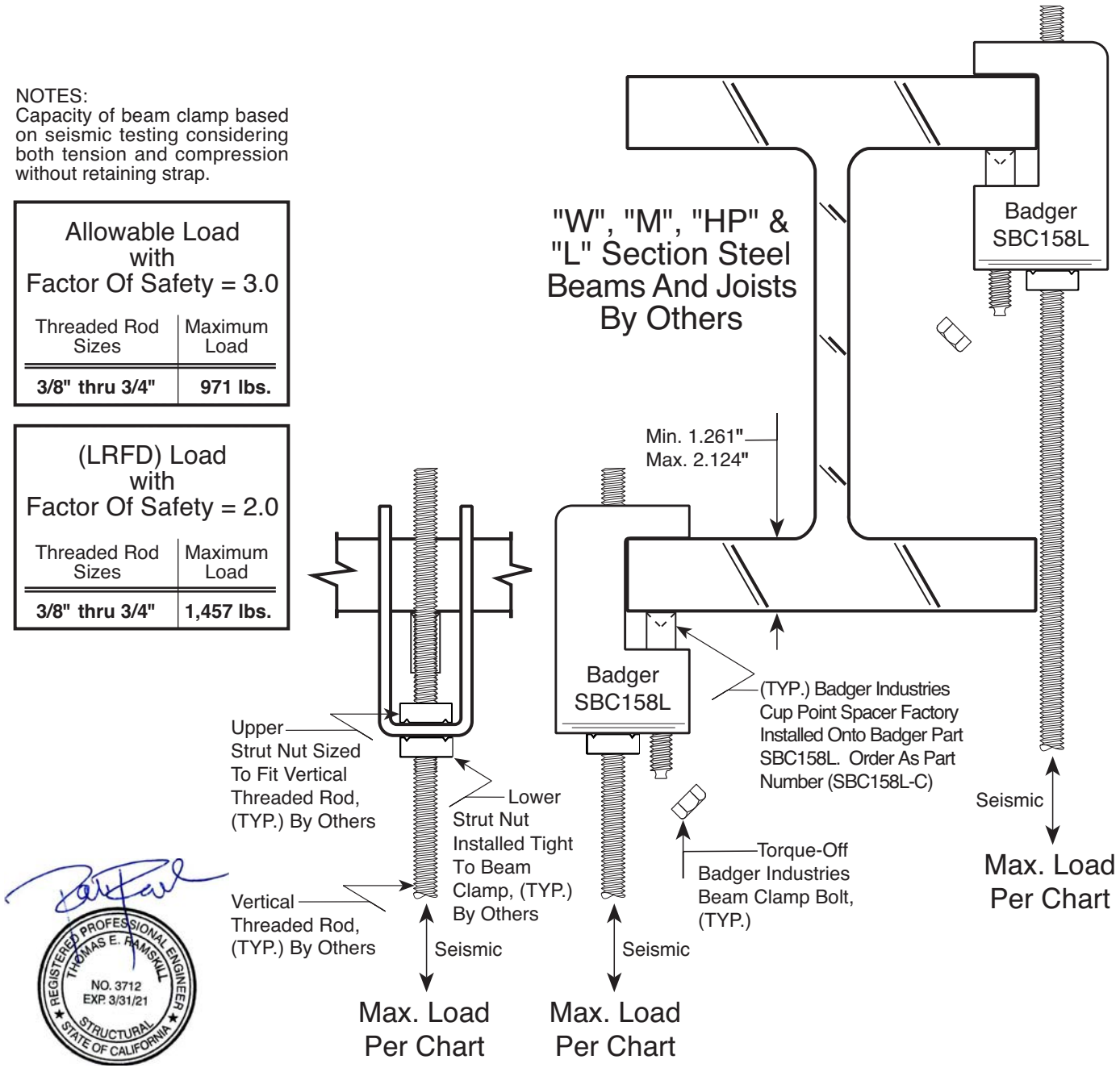
BADGER INDUSTRIES - Part SBC158L-C

Patent Pending

NOTES:
Capacity of beam clamp based on seismic testing considering both tension and compression without retaining strap.

Allowable Load with Factor Of Safety = 3.0	
Threaded Rod Sizes	Maximum Load
3/8" thru 3/4"	**971 lbs.**

(LRFD) Load with Factor Of Safety = 2.0	
Threaded Rod Sizes	Maximum Load
3/8" thru 3/4"	**1,457 lbs.**



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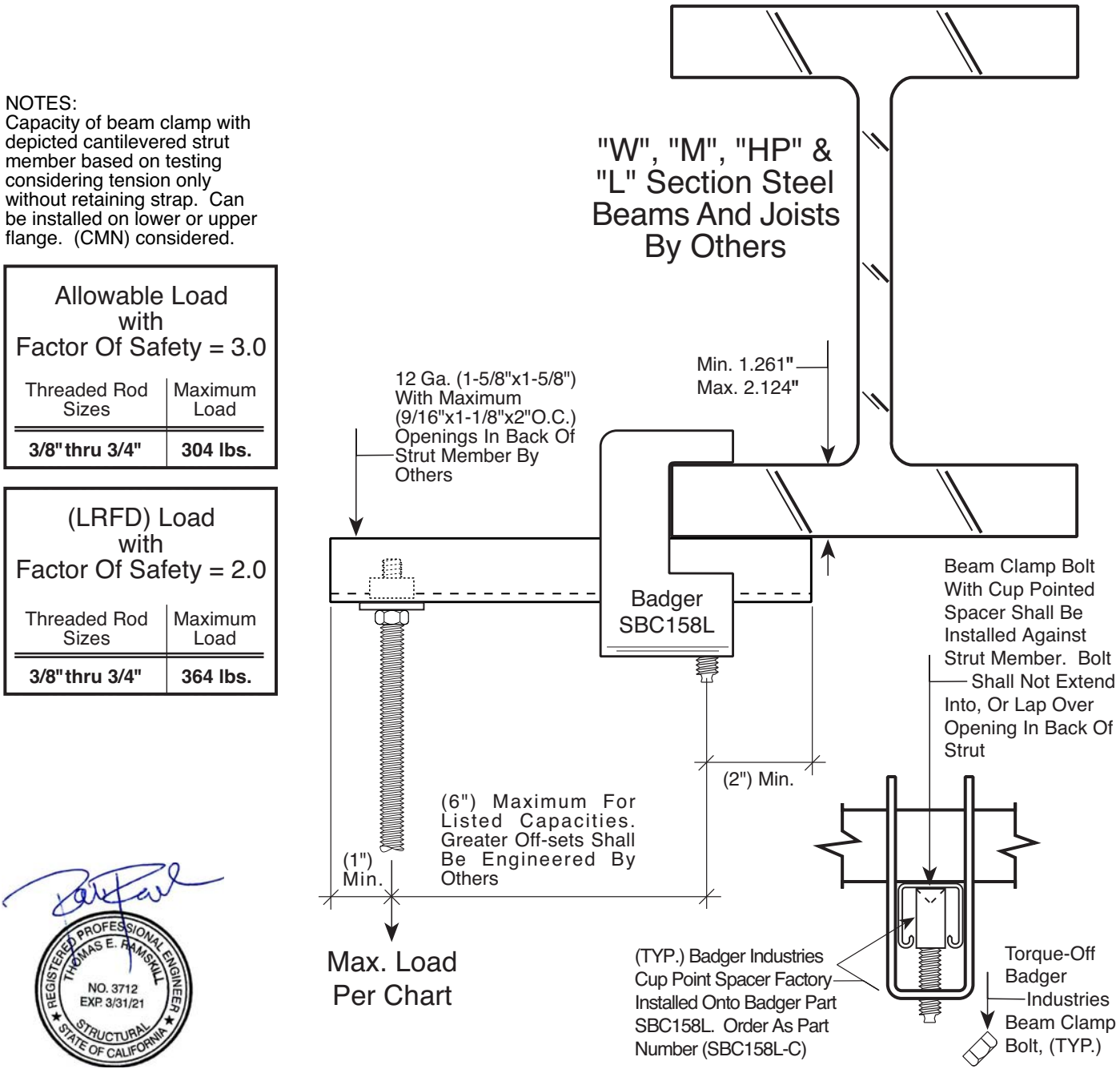
BADGER INDUSTRIES - Part SBC158L-C

Patent Pending

NOTES:
Capacity of beam clamp with depicted cantilevered strut member based on testing considering tension only without retaining strap. Can be installed on lower or upper flange. (CMN) considered.

Allowable Load with Factor Of Safety = 3.0	
Threaded Rod Sizes	Maximum Load
3/8"thru 3/4"	**304 lbs.**

(LRFD) Load with Factor Of Safety = 2.0	
Threaded Rod Sizes	Maximum Load
3/8"thru 3/4"	**364 lbs.**



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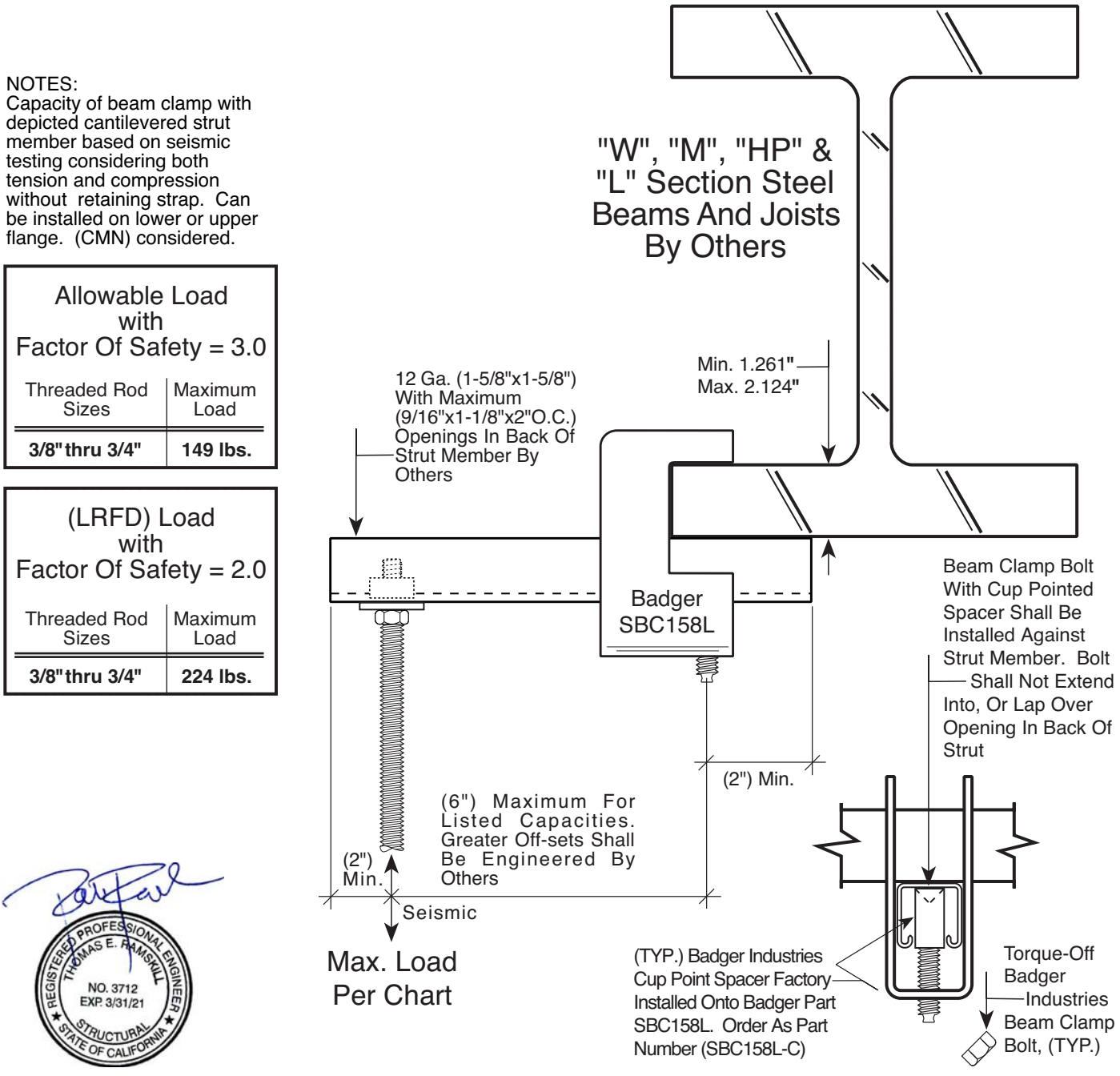
Capacity of beam clamp with depicted cantilevered strut member based on seismic testing considering both tension and compression without retaining strap. Can be installed on lower or upper flange. (CMN) considered.

Allowable Load with Factor Of Safety = 3.0	
Threaded Rod Sizes	Maximum Load
3/8" thru 3/4"	**149 lbs.**

(LRFD) Load with Factor Of Safety = 2.0	
Threaded Rod Sizes	Maximum Load
3/8" thru 3/4"	**224 lbs.**



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3/8" thru 3/4"	**677 lbs.**

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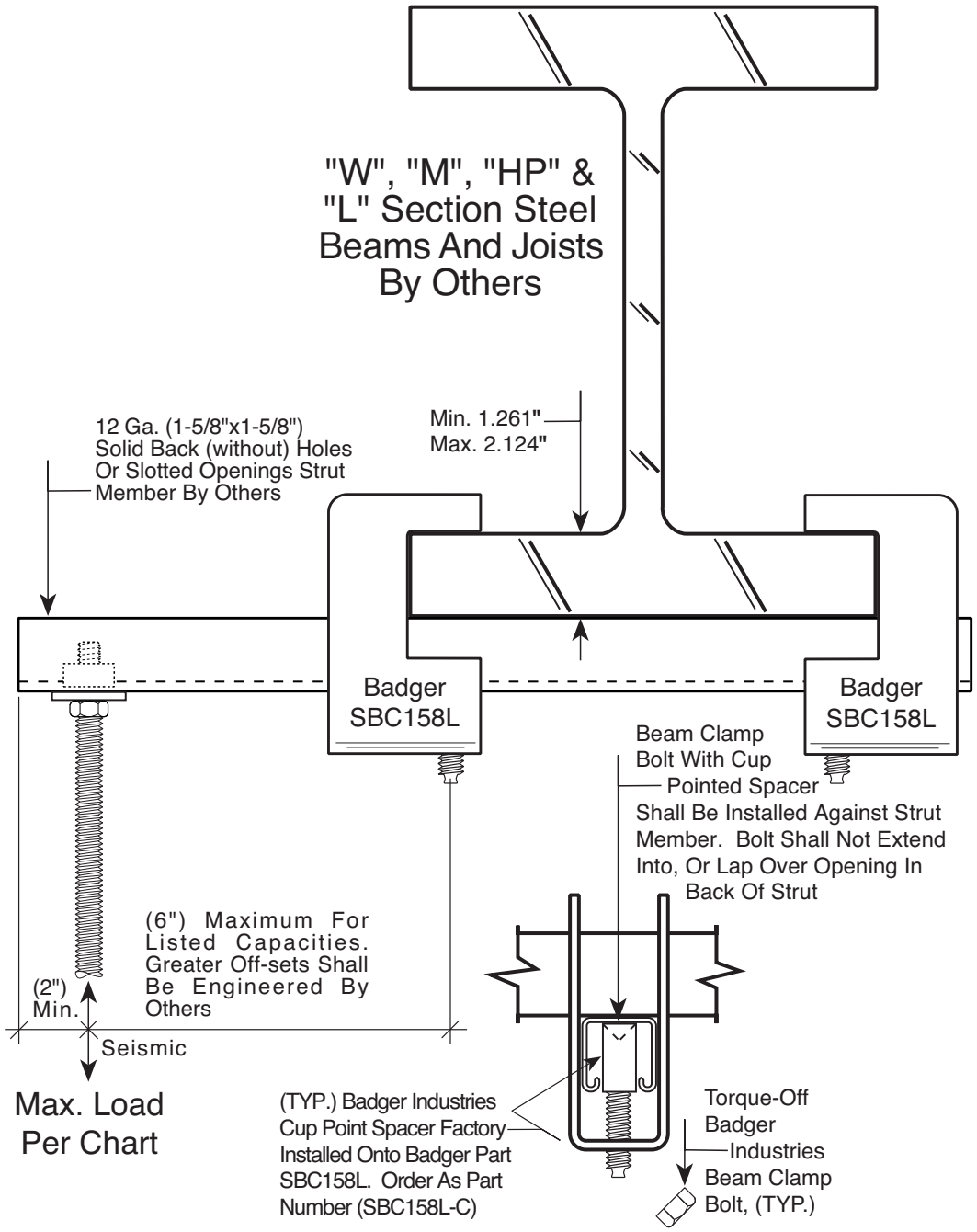

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Patent Pending

NOTES:
Capacity of beam clamps assembled in pairs with depicted strut member based on testing considering tension only without retaining strap(s).

Double beam clamps with strut span member can be used to span from two separate beams and/or joist.

Reduce listed capacities to comply with design capacity limits, including but not limited to, strut member span length, load placement(s), etc.

Allowable Load with Factor Of Safety = 3.0	
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3/8" thru 3/4"	**2,479 lbs.**

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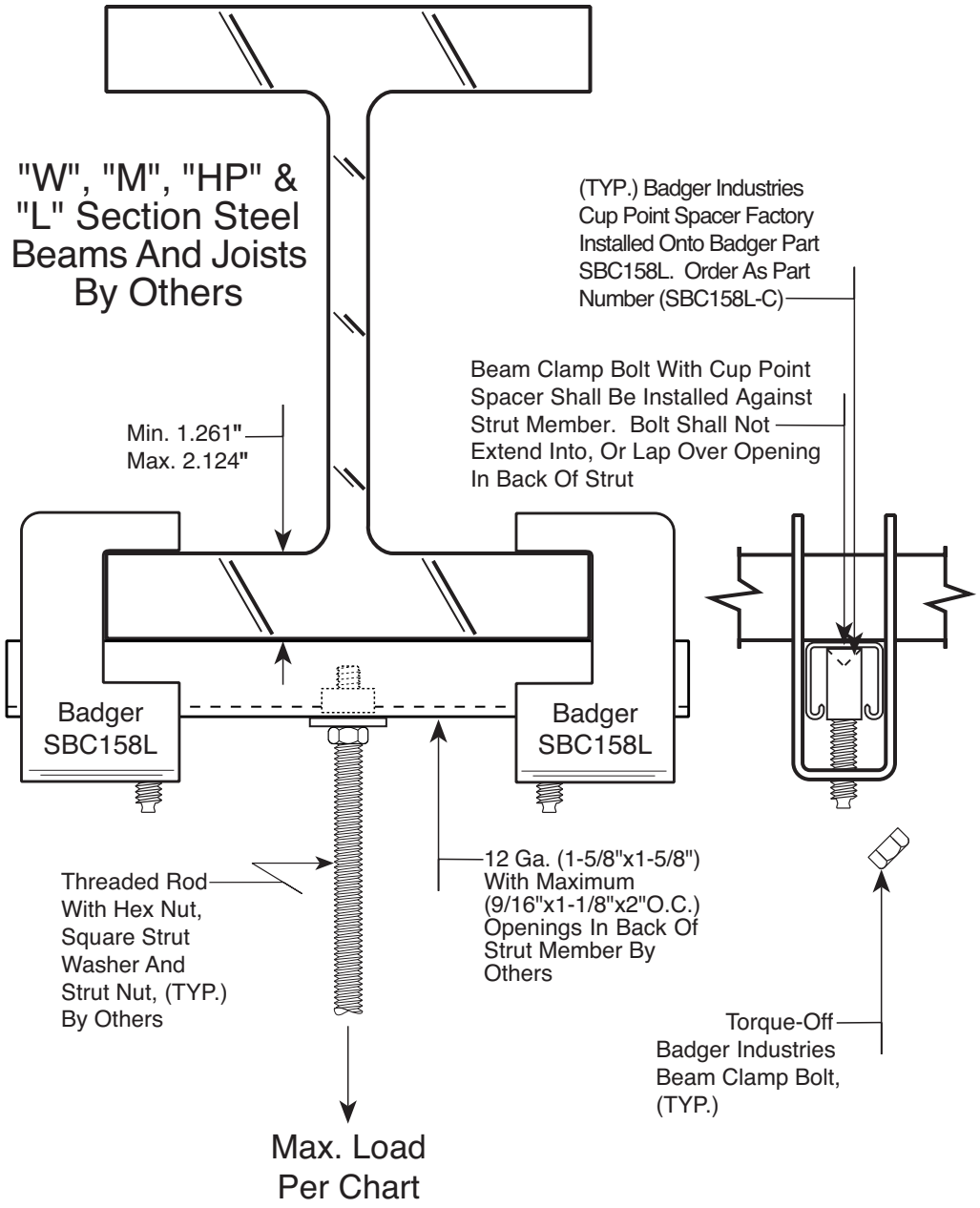

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Allowable Load with Factor Of Safety = 3.0	
Threaded Rod Sizes	Maximum Load
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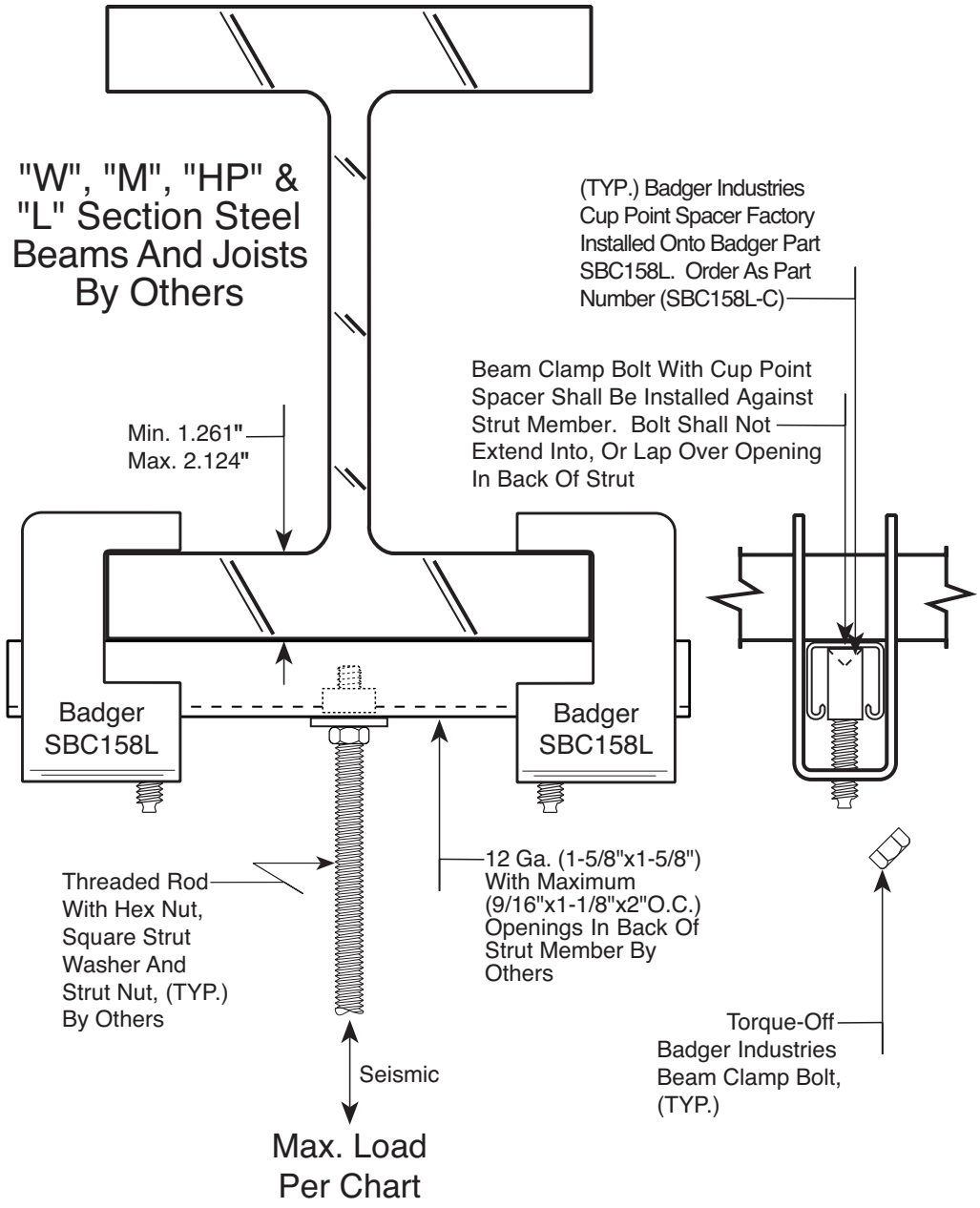
3/8" thru 3/4"	**1,381 lbs.**



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Patent Pending

NOTES:
Capacity of beam clamp based on testing considering tension only without retaining strap.

Allowable Load with Factor Of Safety = 3.0	
Threaded Rod Sizes	Maximum Load
3/8" thru 3/4"	**3,247 lbs.**

(LRFD) Load with Factor Of Safety = 2.0	
Threaded Rod Sizes	Maximum Load
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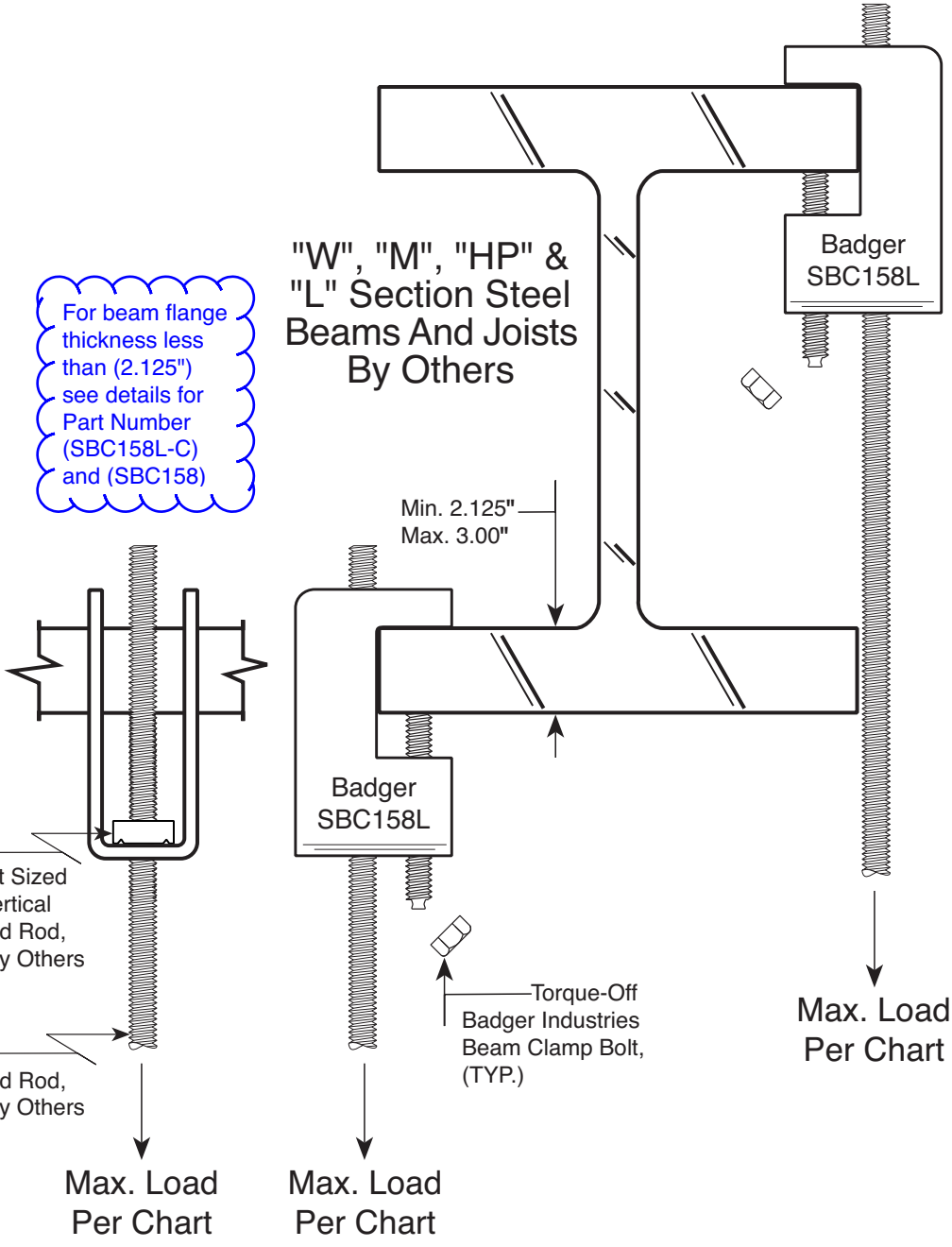

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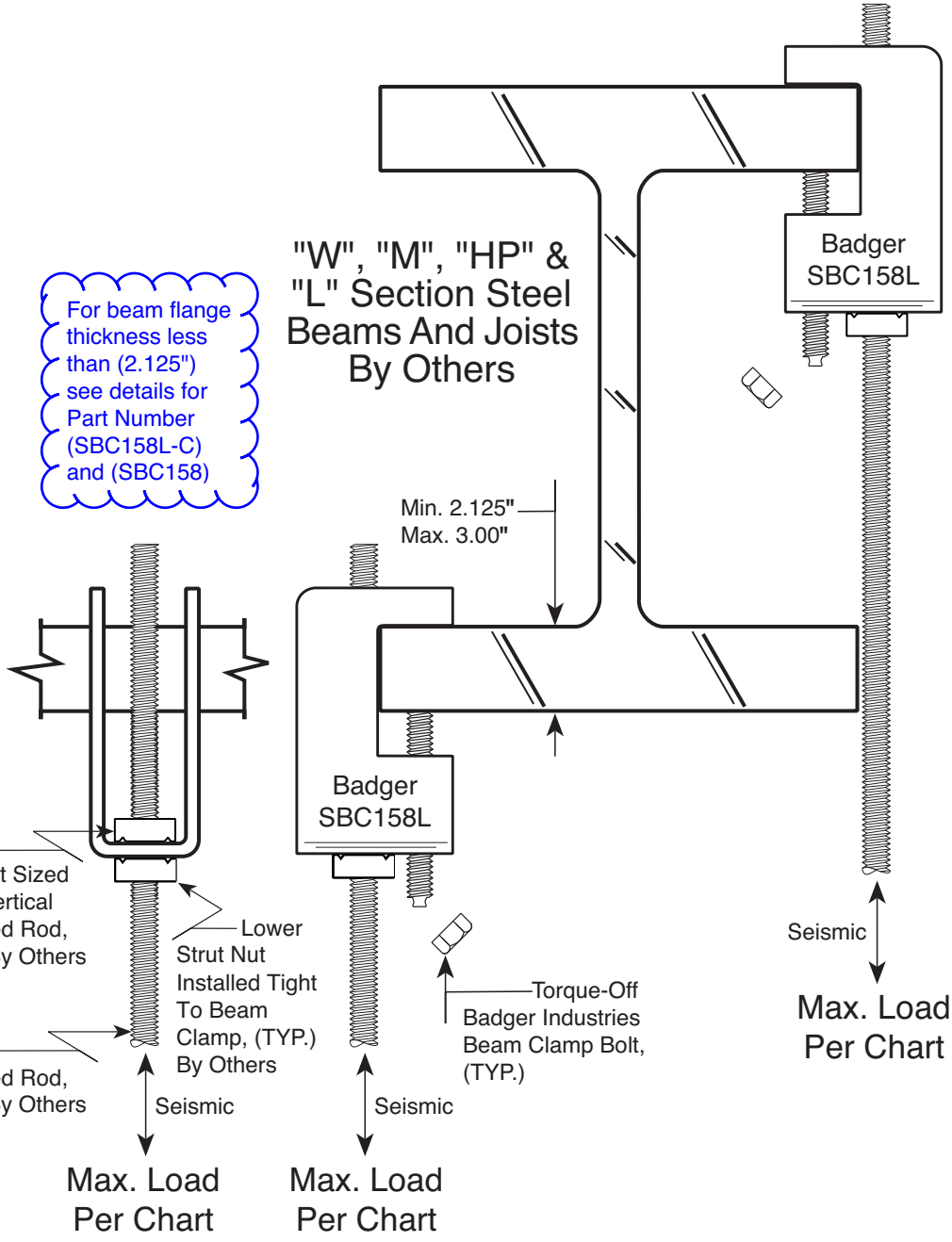
Capacity of beam clamp based on seismic testing considering both tension and compression without retaining strap.

Allowable Load with Factor Of Safety = 3.0	
Threaded Rod Sizes	Maximum Load
3/8" thru 3/4"	**971 lbs.**

(LRFD) Load with Factor Of Safety = 2.0	
Threaded Rod Sizes	Maximum Load
3/8" thru 3/4"	**1,457 lbs.**

For beam flange thickness less than (2.125") see details for Part Number (SBC158L-C) and (SBC158)

"W", "M", "HP" & "L" Section Steel Beams And Joists By Others



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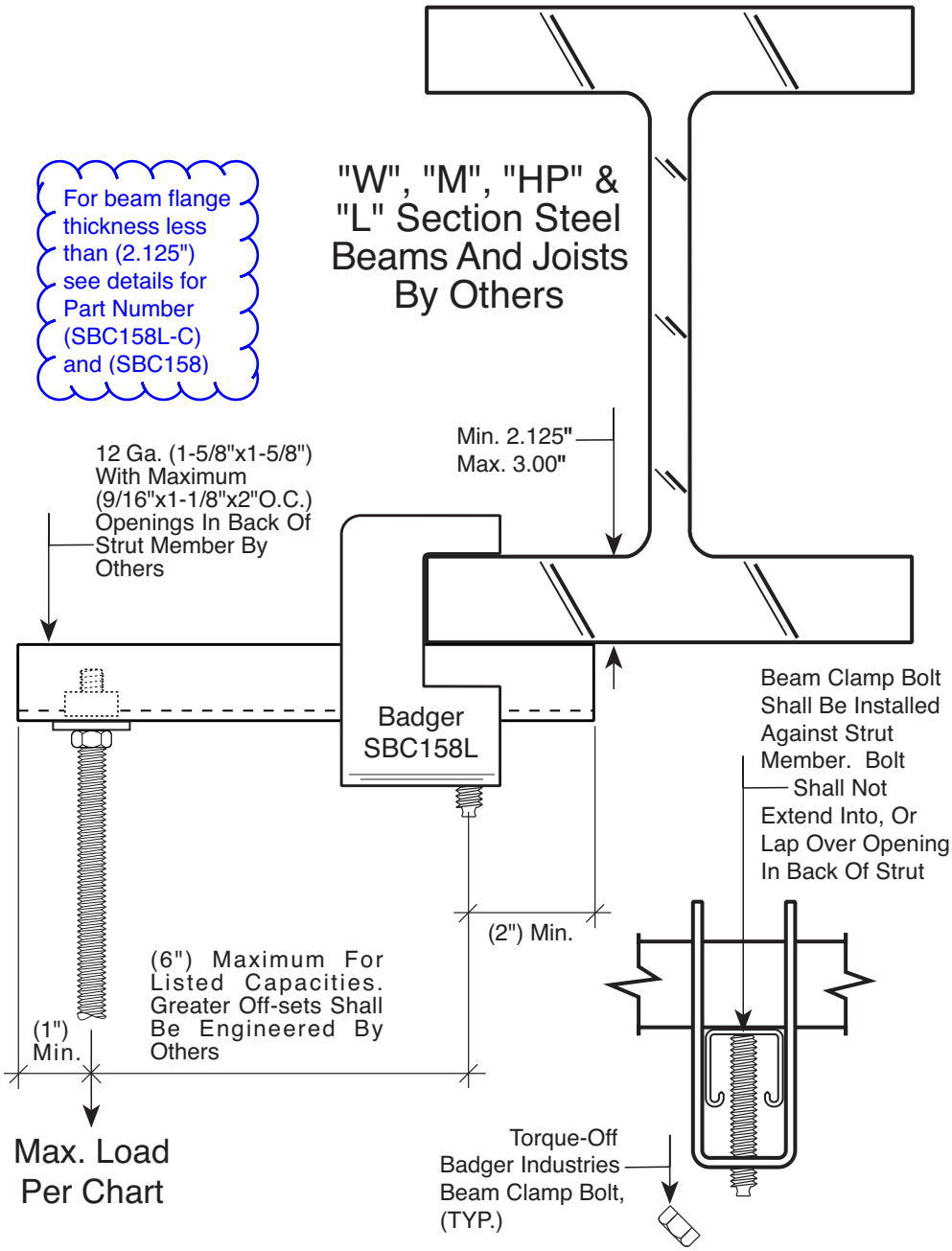
Patent Pending

NOTES:
Capacity of beam clamp with depicted cantilevered strut member based on testing considering tension only without retaining strap. Can be installed on lower or upper flange. (CMN) considered.

Allowable Load with Factor Of Safety = 3.0	
Threaded Rod Sizes	Maximum Load
3/8" thru 3/4"	**304 lbs.**

(LRFD) Load with Factor Of Safety = 2.0	
Threaded Rod Sizes	Maximum Load
3/8" thru 3/4"	**364 lbs.**

For beam flange thickness less than (2.125") see details for Part Number (SBC158L-C) and (SBC158)



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Allowable Load with Factor Of Safety = 3.0	
Threaded Rod Sizes	Maximum Load
3/8" thru 3/4"	**149 lbs.**

(LRFD) Load with Factor Of Safety = 2.0	
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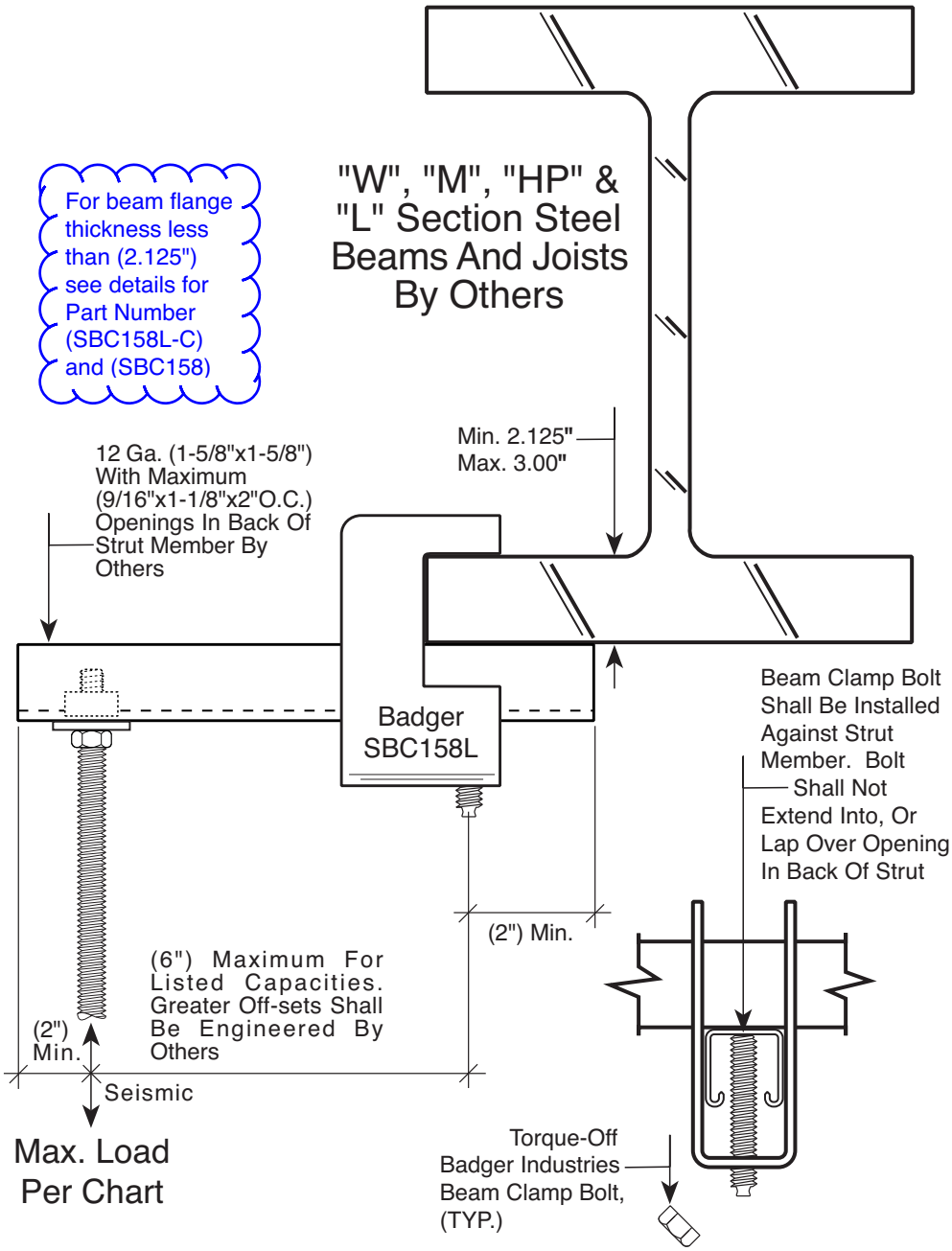
3/8" thru 3/4"	**224 lbs.**



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(LRFD) Load with Factor Of Safety = 2.0	
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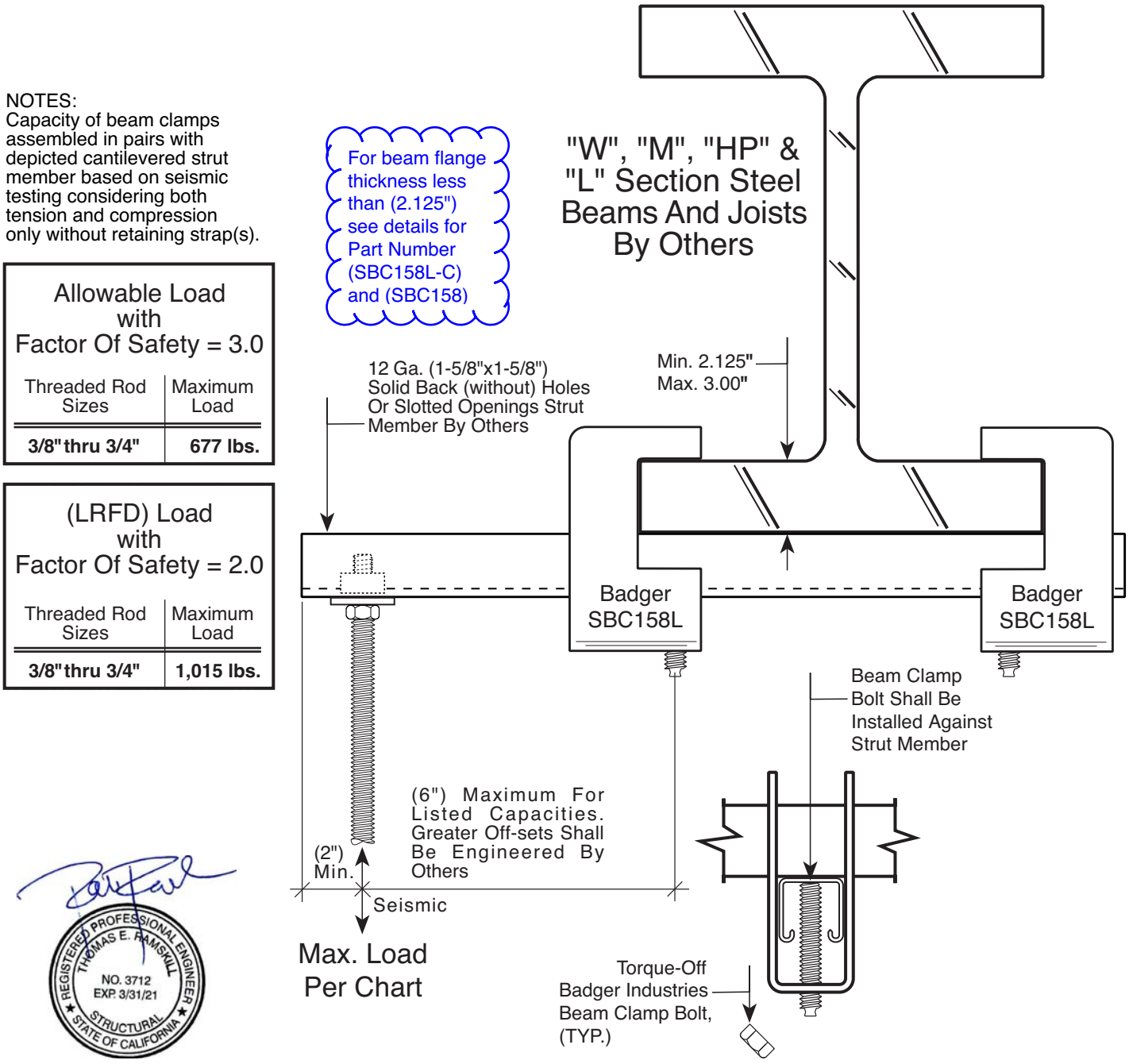
3/8" thru 3/4"	**1,015 lbs.**



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Patent Pending

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Double beam clamps with strut span member can be used to span from two separate beams and/or joist.

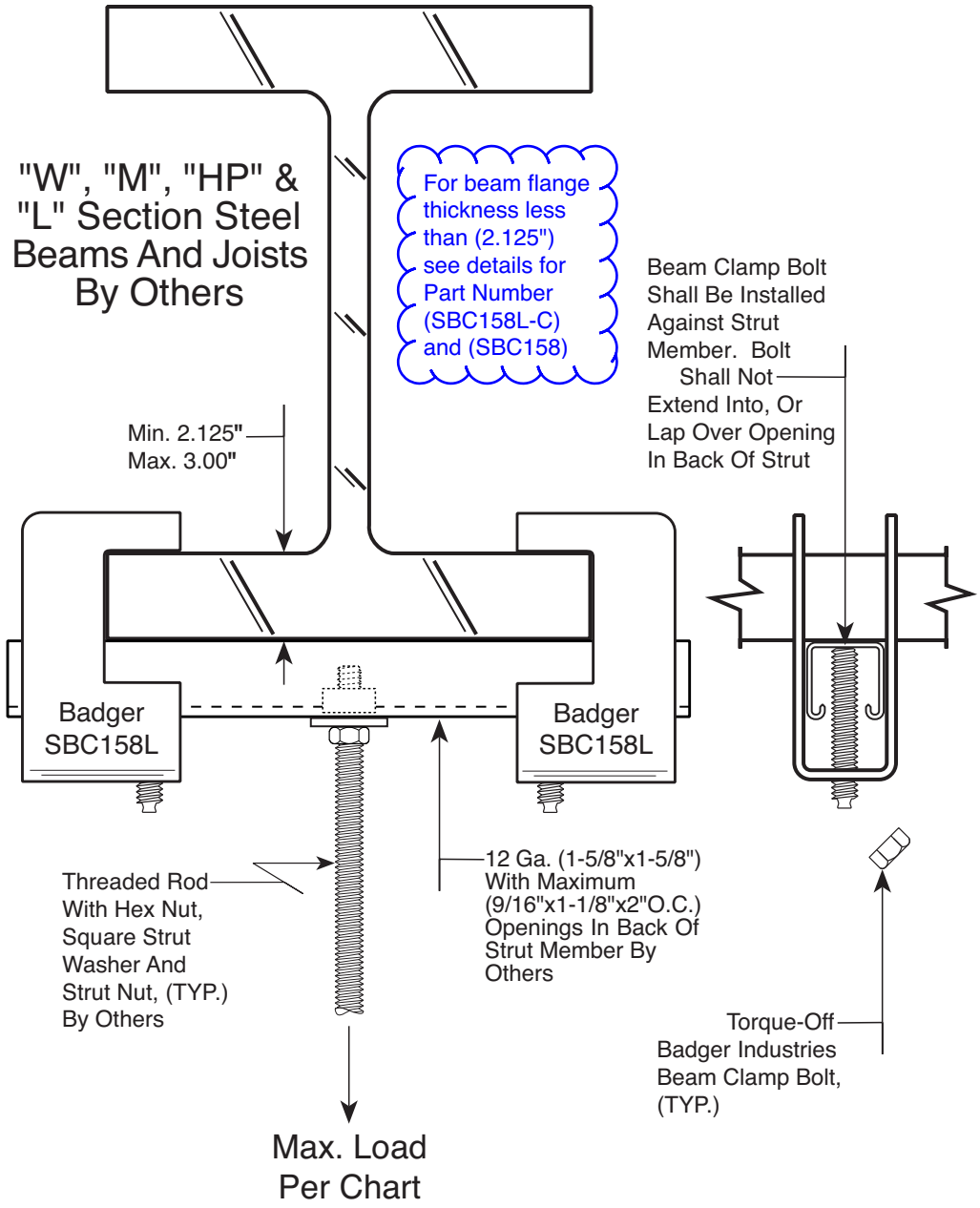
Reduce listed capacities to comply with design capacity limits, including but not limited to, strut member span length, load placement(s), etc.

Allowable Load with Factor Of Safety = 3.0

Threaded Rod Sizes	Maximum Load
3/8" thru 3/4"	**2,479 lbs.**

(LRFD) Load with Factor Of Safety = 2.0

Threaded Rod Sizes	Maximum Load
3/8" thru 3/4"	**3,719 lbs.**



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Reduce listed capacities to comply with design capacity limits, including but not limited to, strut member span length, load placement(s), etc.

Allowable Load with Factor Of Safety = 3.0	
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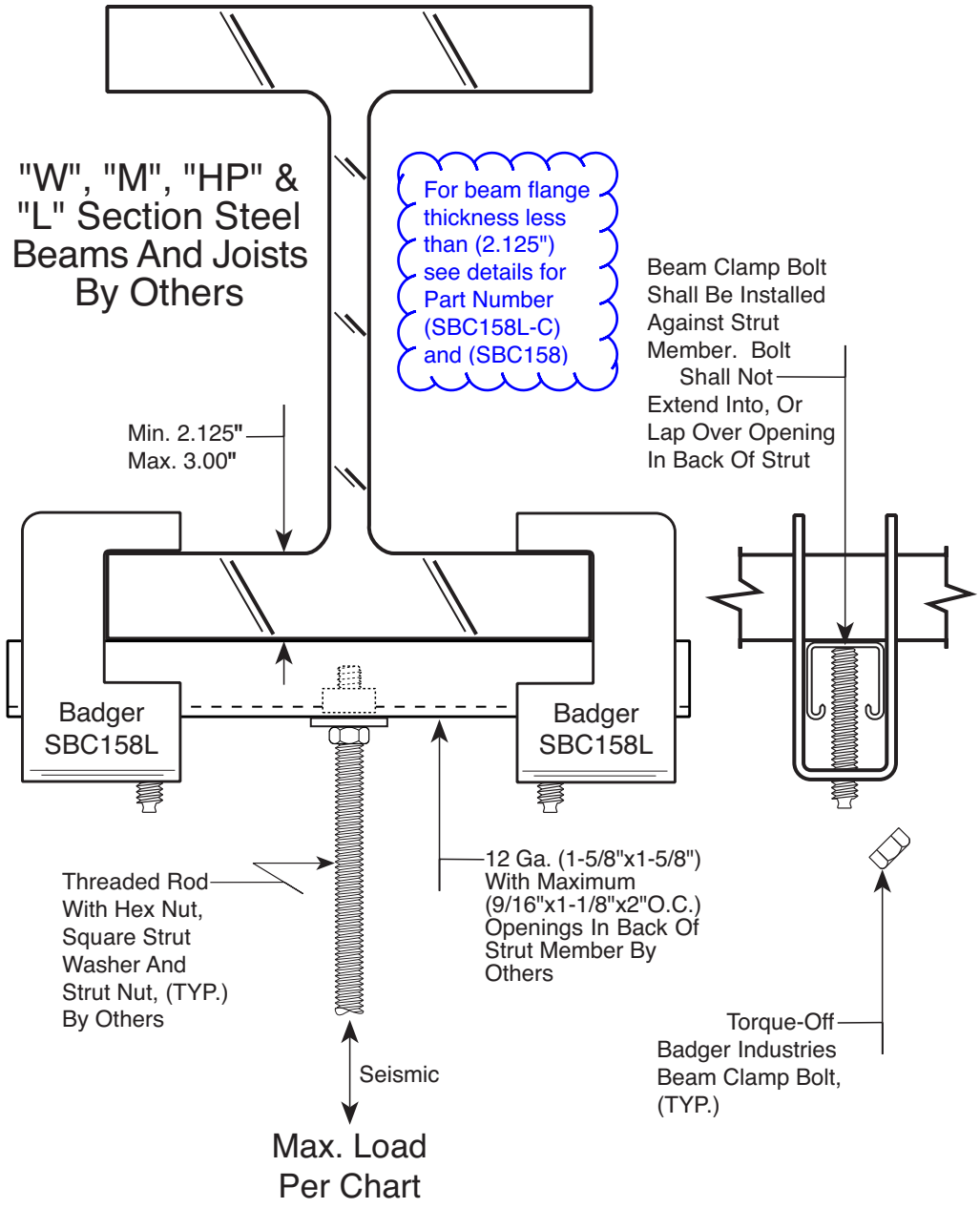
Threaded Rod Sizes	Maximum Load
3/8" thru 3/4"	**1,381 lbs.**



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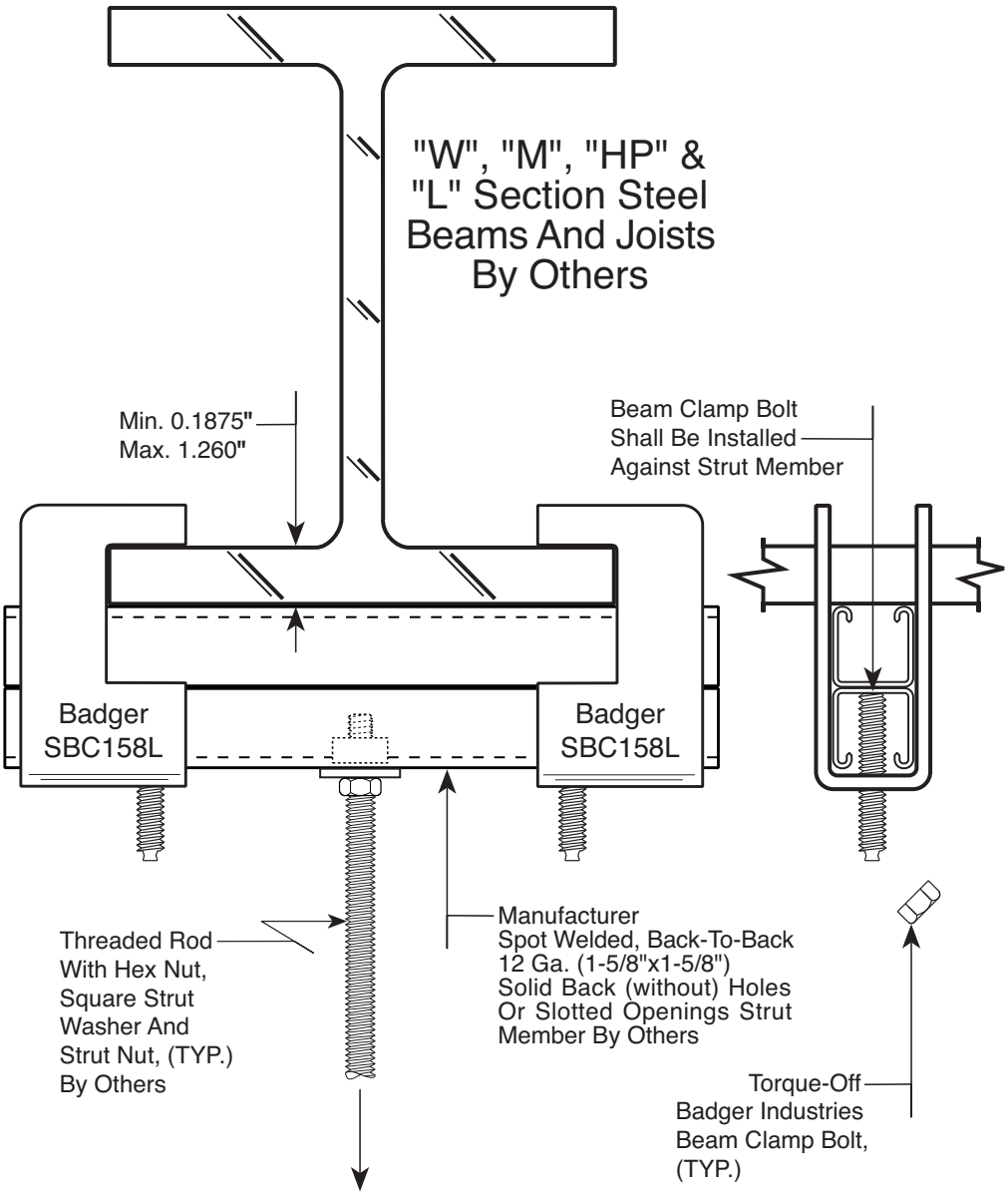
Reduce listed capacities to comply with design capacity limits, including but not limited to, strut member span length, load placement(s), etc.

Allowable Load with Factor Of Safety = 3.0	
Threaded Rod Sizes	Maximum Load
3/8" thru 3/4"	**3,264 lbs.**

(LRFD) Load with Factor Of Safety = 2.0	
Threaded Rod Sizes	Maximum Load
3/8" thru 3/4"	**4,896 lbs.**



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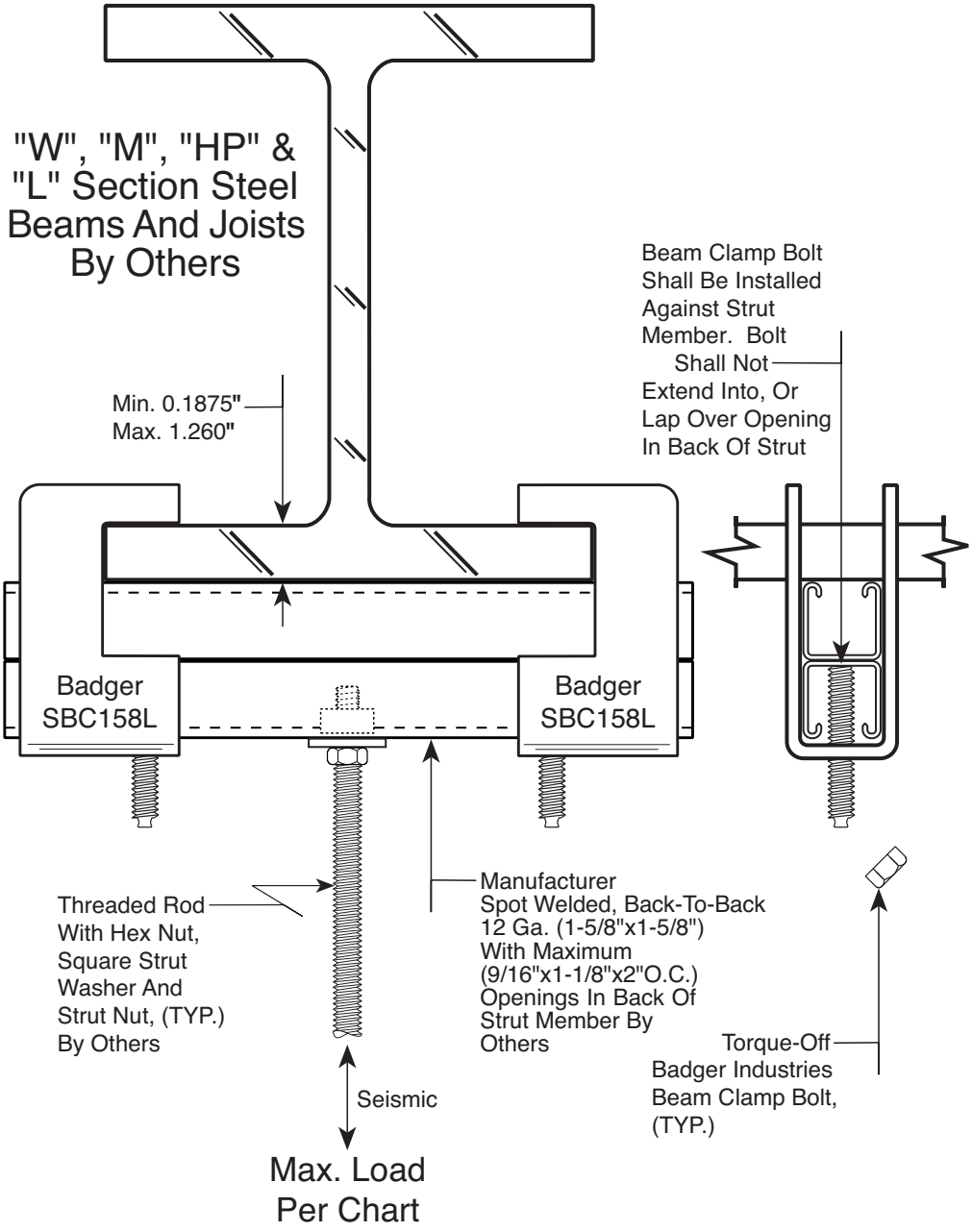
Reduce listed capacities to comply with design capacity limits, including but not limited to, strut member span length, load placement(s), etc.

Allowable Load with Factor Of Safety = 3.0	
Threaded Rod Sizes	Maximum Load
3/8" thru 3/4"	**1,024 lbs.**

(LRFD) Load with Factor Of Safety = 2.0	
Threaded Rod Sizes	Maximum Load
3/8" thru 3/4"	**1,537 lbs.**



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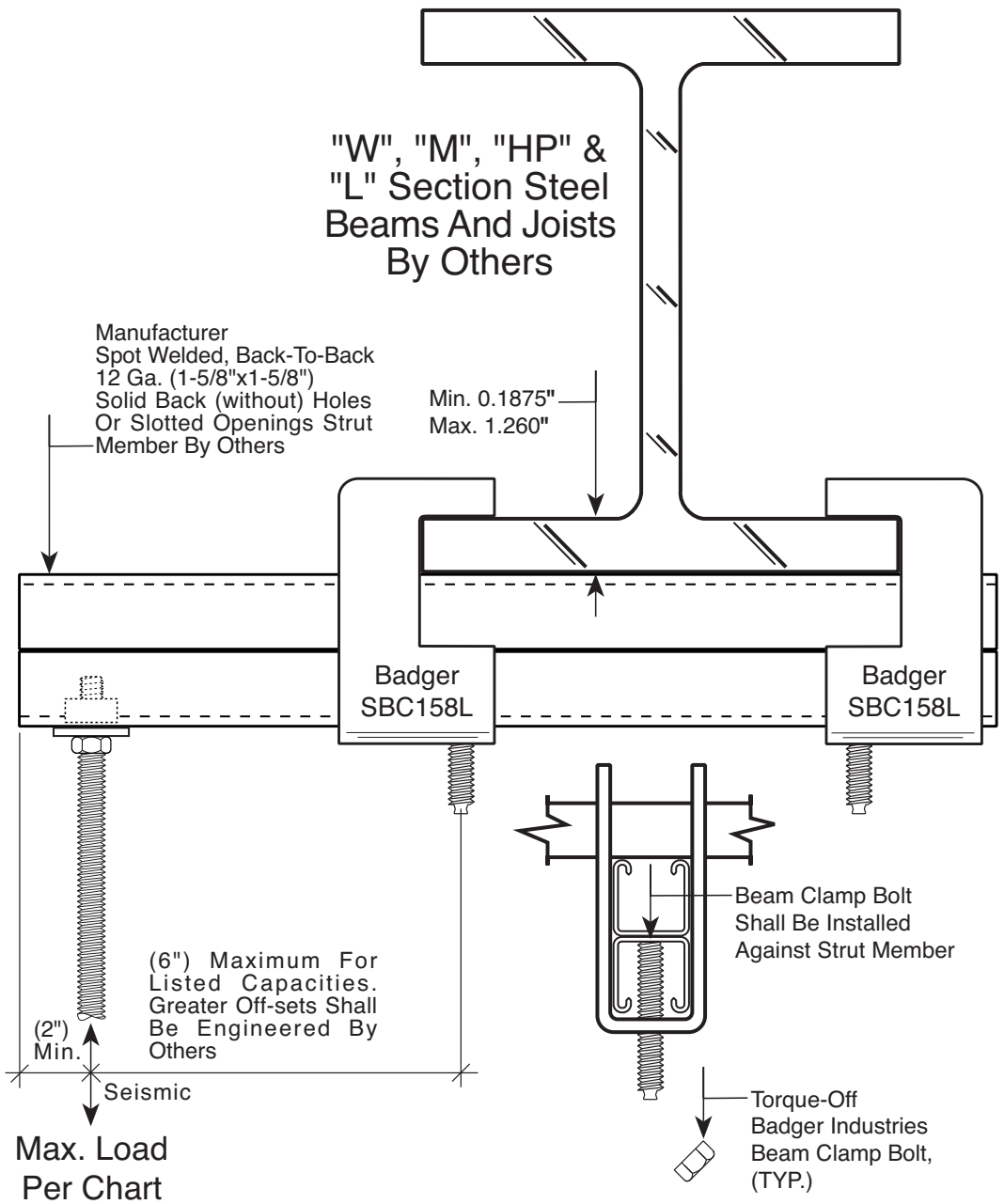
NOTES:
Capacity of beam clamps assembled in pairs with depicted cantilevered strut member based on seismic testing considering both tension and compression only without retaining strap(s).

Allowable Load with Factor Of Safety = 3.0

Threaded Rod Sizes	Maximum Load
3/8" thru 3/4"	**736 lbs.**

(LRFD) Load with Factor Of Safety = 2.0

Threaded Rod Sizes	Maximum Load
3/8" thru 3/4"	**1,104 lbs.**



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BADGER INDUSTRIES - Part SBC158-C

Patent Pending

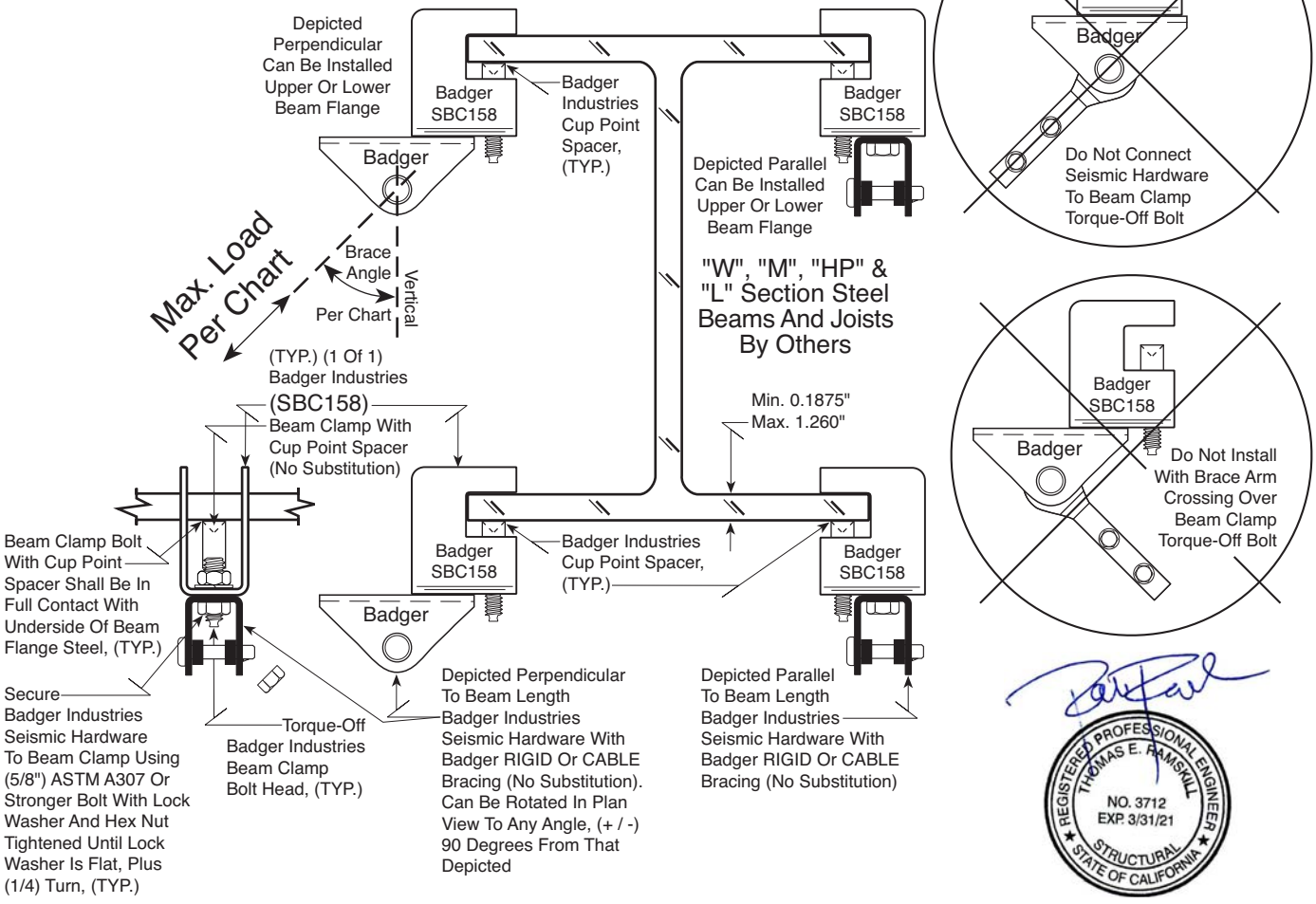
NOTES:
Capacity based on seismic testing considering both tension and compression without a beam clamp retaining strap.

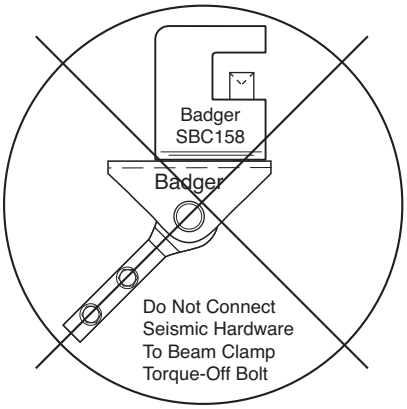
To convert listed angle capacity to horizontal capacity multiply listed capacity by (sin) of the angle.

When ordering add a [-C] to Badger Beam Clamp Part Number (SBC158) to get beam clamp pre-assembled with required Cup Point Spacer. Thus order as Part Number (SBC158-C).

Allowable Load with Factor Of Safety = 3.0		
Brace Angle	30° to 60°	61° to 75°
Maximum Load	**320 lbs.**	**214 lbs.**

(LRFD) Load with Factor Of Safety = 2.0		
Brace Angle	30° to 60°	61° to 75°
Maximum Load	**480 lbs.**	**321 lbs.**





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BADGER INDUSTRIES - Part SBC158-C

Patent Pending

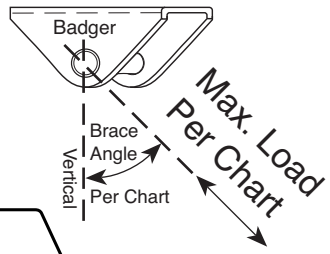
When ordering add a [-C] to Badger Beam Clamp Part Number (SBC158) to get beam clamp pre-assembled with required Cup Point Spacer. Thus order as Part Number (SBC158-C).

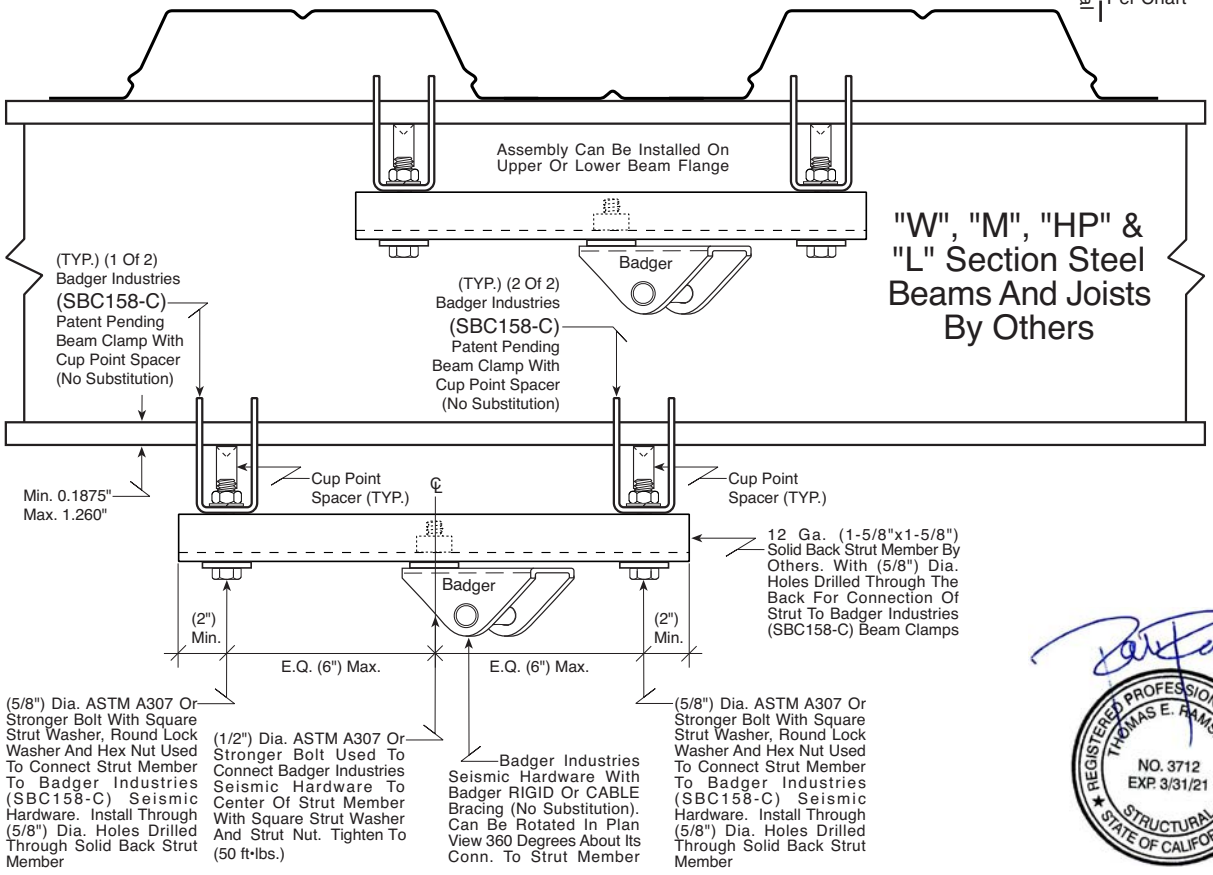
NOTES:
Capacity based on seismic testing considering both tension and compression without retaining strap.

To convert listed angle capacity to horizontal capacity multiply listed capacity by (sin) of the angle. If seismic hardware connection to strut member is not centered between beam clamps the listed capacities shall be engineered to qualify capacity reduction due to uneven loading of beam clamps.

Allowable Load with Factor Of Safety = 3.0		
Brace Angle	30° to 60°	61° to 75°
Maximum Load	**638 lbs.**	**426 lbs.**

(LRFD) Load with Factor Of Safety = 2.0		
Brace Angle	30° to 60°	61° to 75°
Maximum Load	**956 lbs.**	**640 lbs.**





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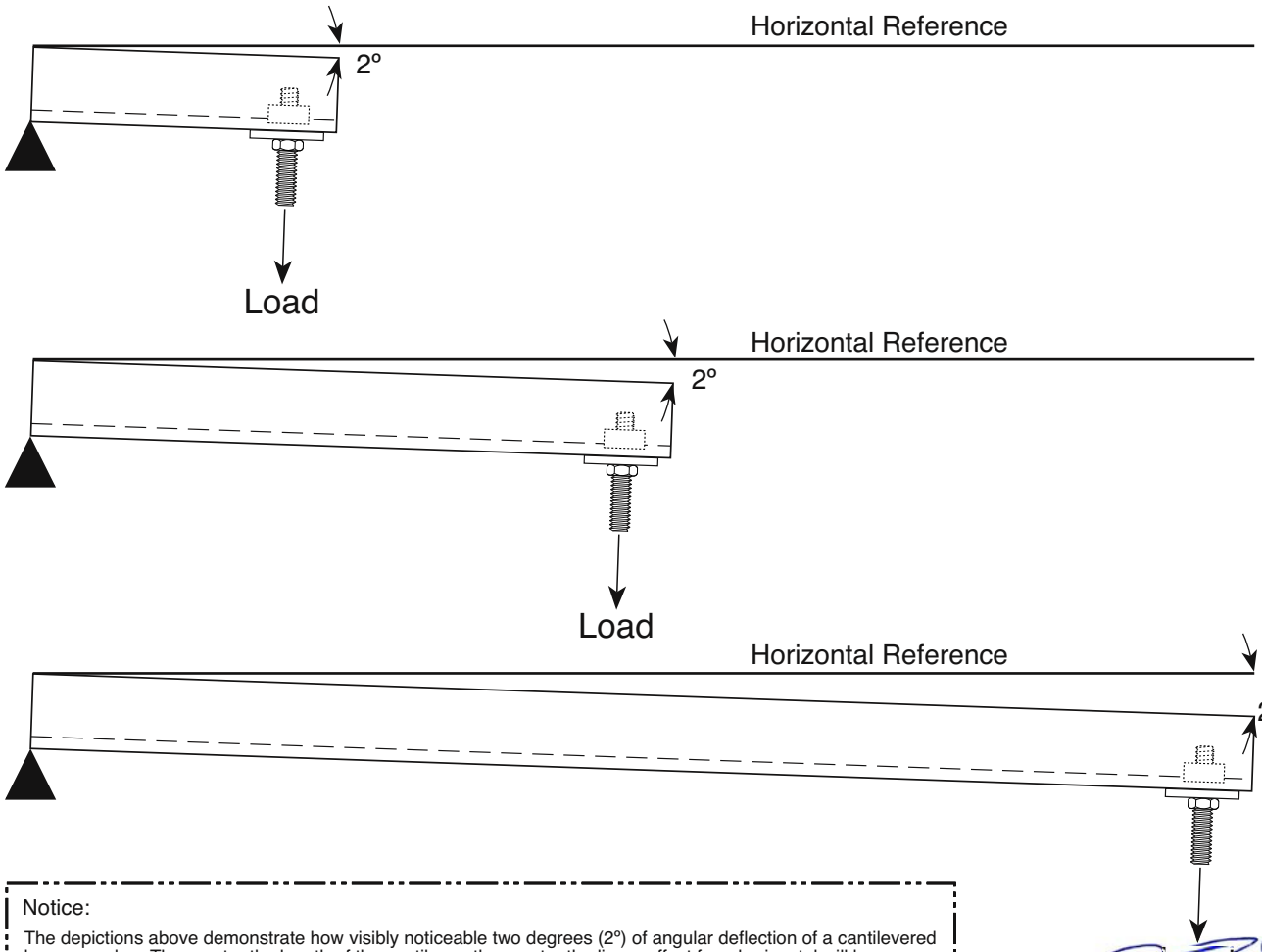
BADGER INDUSTRIES - (CMN)
Cantilevered Member Notice



Notice:

The depictions above demonstrate how visibly noticeable two degrees (2°) of angular deflection of a cantilevered beam may be. The greater the length of the cantilever, the greater the linear offset from horizontal will become.

While such deflections may be structurally sound and within code allowance, they may be visibly concerning to those unfamiliar with the code calculations and standard beam deflection principles.

As such, Badger Industries Installation Details that reference this, Cantilever Member Notice Detail (CMN), have had their listed gravity capacities reduced to represent maximum allowable loads resulting in an average of one degree (1°) of angular deflection, as derived from independent lab testing.

Badger Industries believes these reductions will increase system safety factors, may prevent misalignment of the trade system, and may eliminate rod bending concerns.

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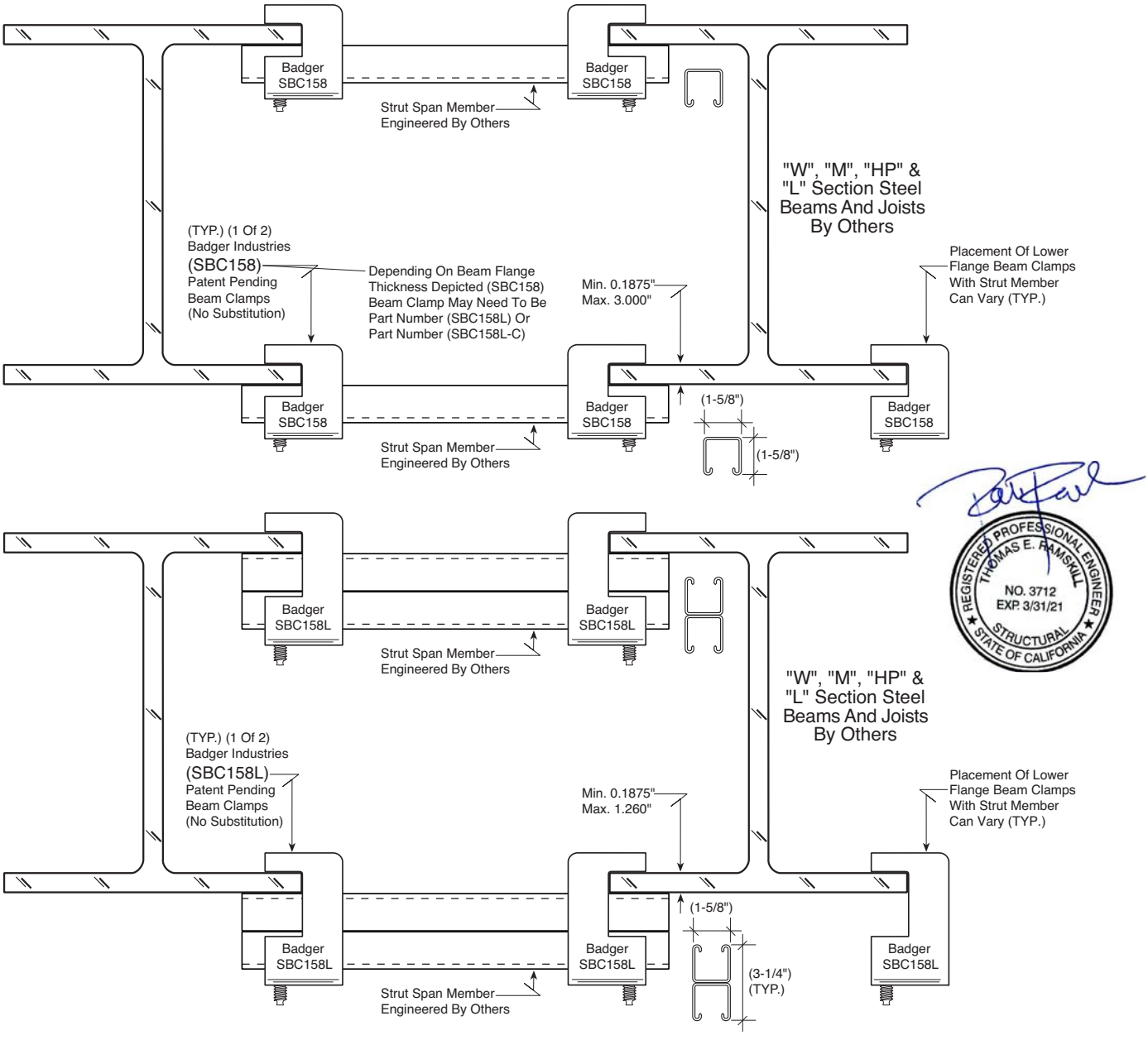
BADGER INDUSTRIES - (BBN)
Beam to Beam Notice



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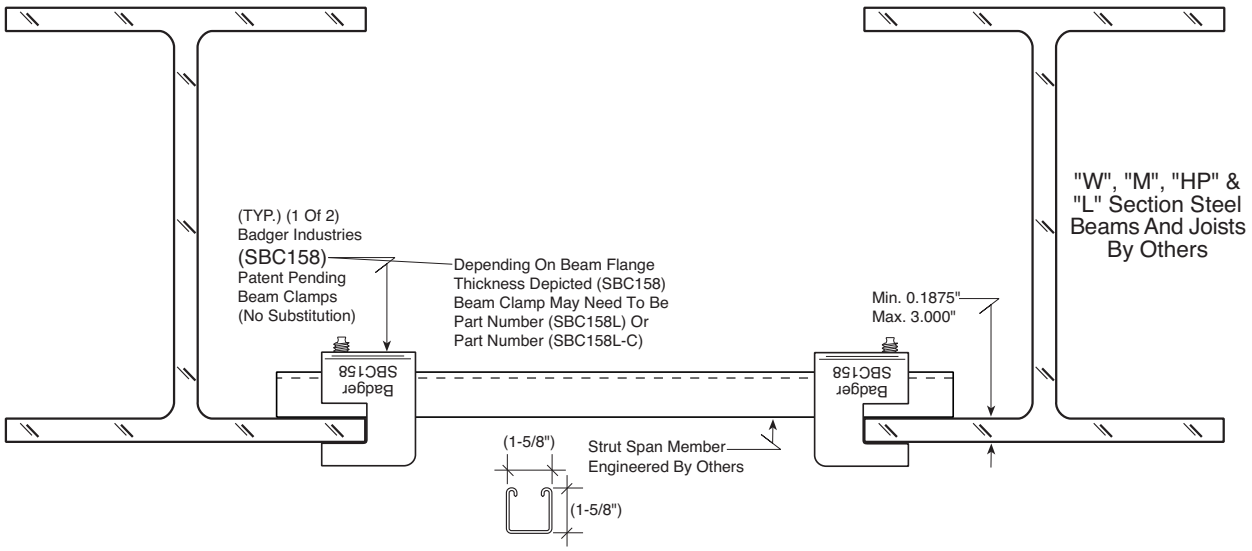
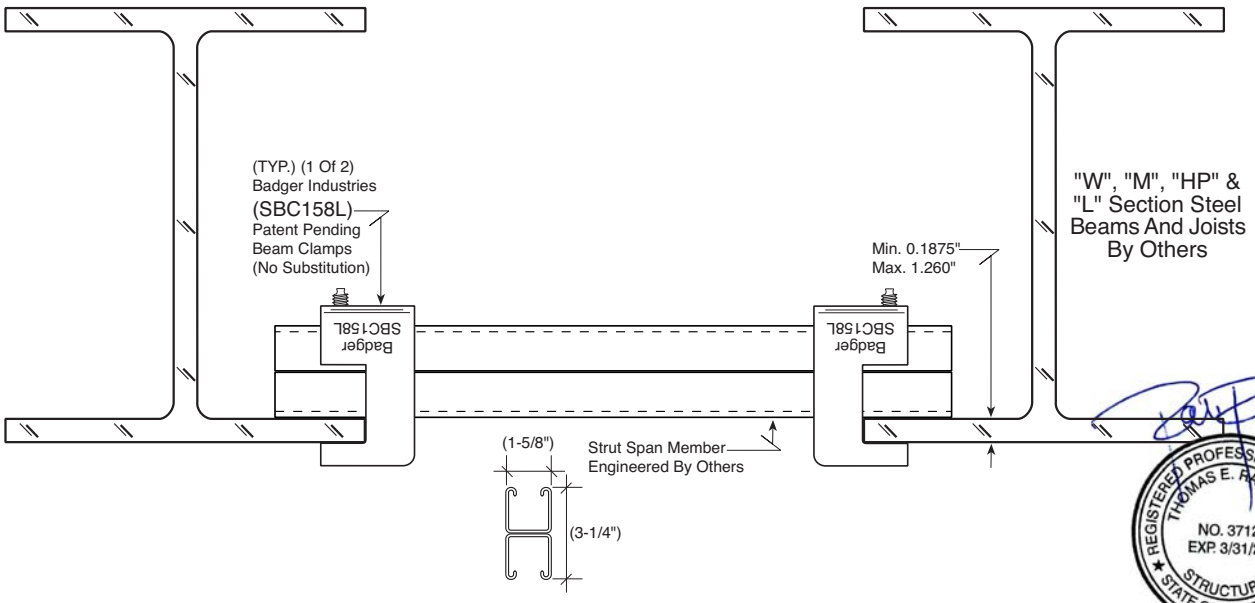
BADGER INDUSTRIES - (BBN)
Beam to Beam Notice





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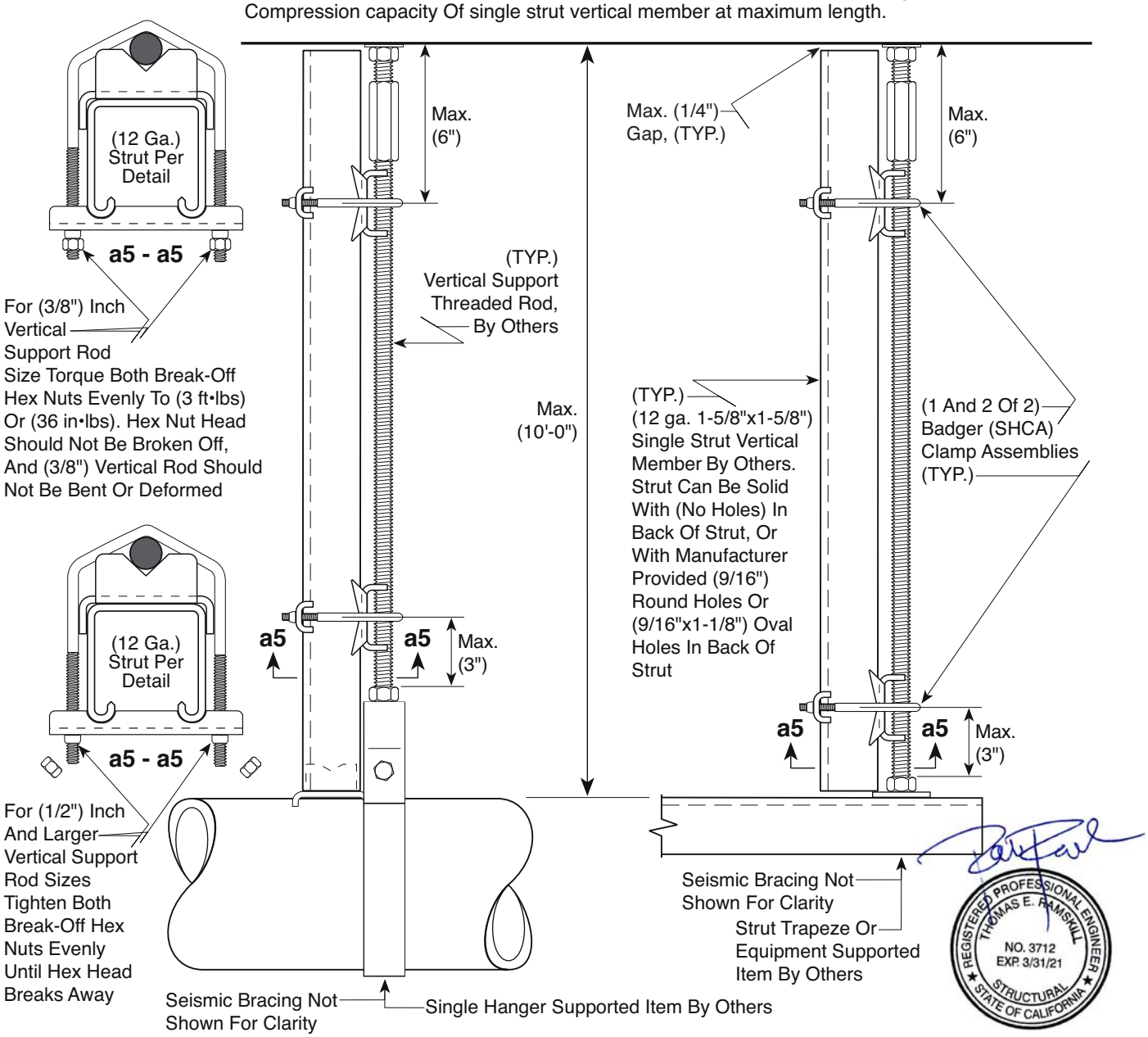
BADGER INDUSTRIES - Part SHCA Patent #10,281,062

792 lbs Allowable Load with Factor Of Safety = 3
1,188 lbs (LRFD) Load with Factor Of Safety = 2

Compression capacity Of single strut vertical member at maximum length.



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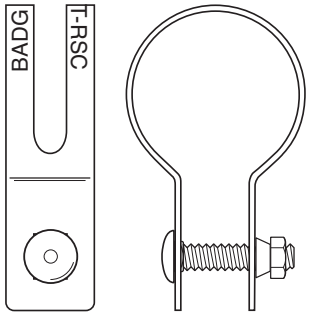
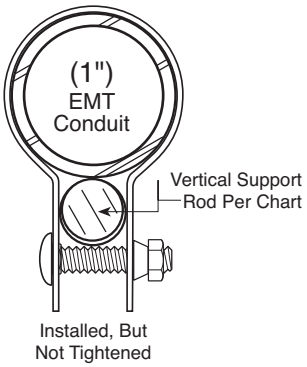
~ Badger Industries ~
[EMT-RSC]

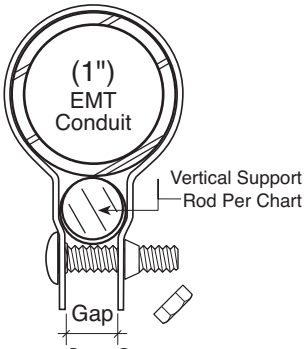


~ Badger Industries ~
Detail (EMT-RSC)

Vertical Support Rod Size (Nom. Dia.)	(A) Maximum Length Without Stiffener	(Z) Maximum Length	Max. (X) Spacing Between EMT-RSC Clamps	Maximum Compression Force With Rod Stiffener (ASD)	Maximum Compression Force With Rod Stiffener (LRFD)
3/8 in.	16 in.	156 in.	28 in.	213 lbs.	319 lbs.
1/2 in.	18 in.	132 in.	38 in.	548 lbs.	823 lbs.
5/8 in.	24 in.	120 in.	48 in.	773 lbs.	1,159 lbs.

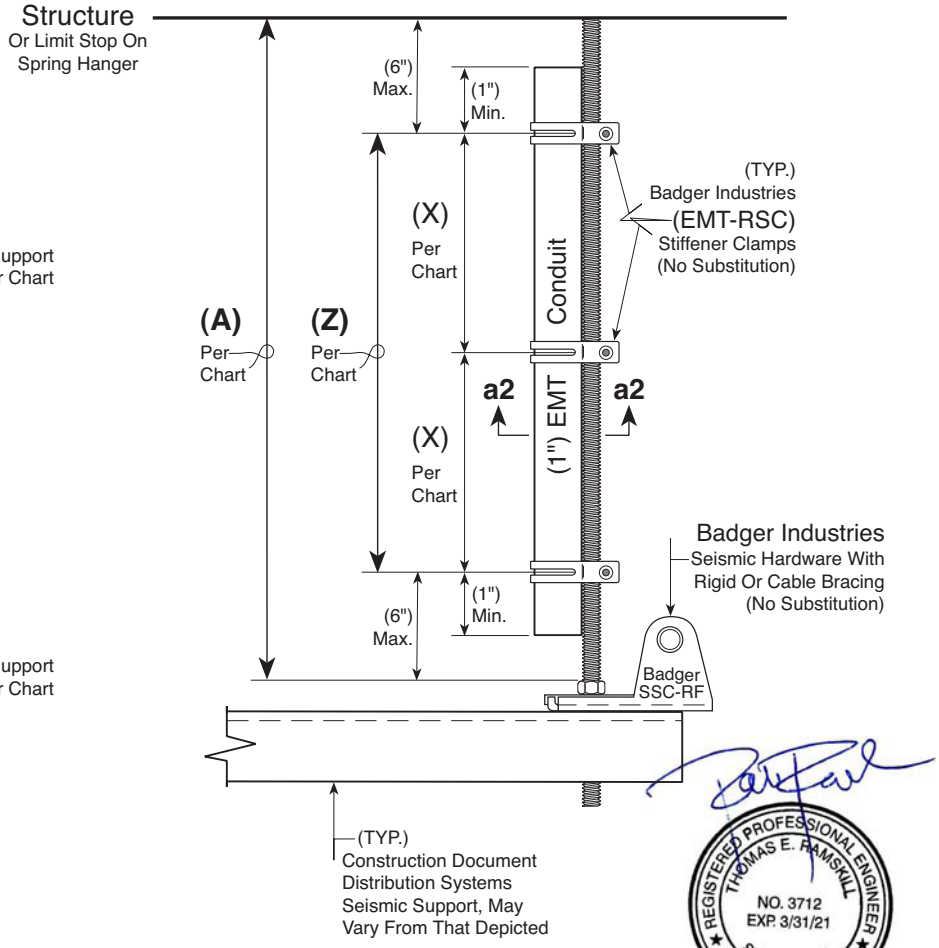


Installed, But
Not Tightened



a2 - a2

Tighten Torque-Off Hex Nut Until Hex Head Breaks Away. Gap And Bolt End Deformation May Vary Other Than Depicted Due To EMT Conduit Member And Vertical Support Rod Size Combinations



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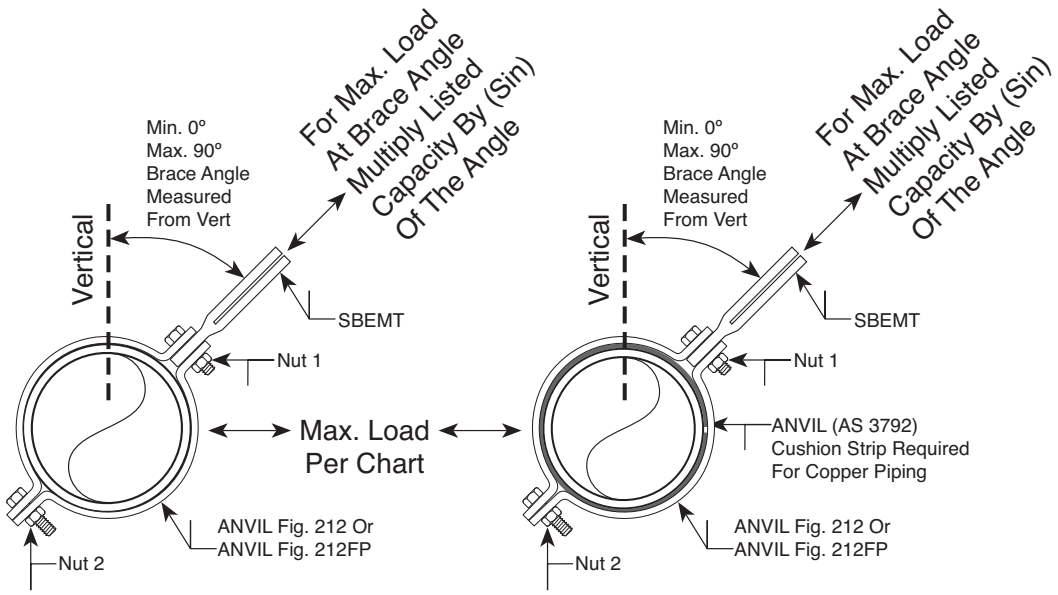
BADGER INDUSTRIES - Anvil FIG: 212 & FIG: 212FP



NOTES:
Capacity based on seismic testing considering both tension and compression.
To convert listed horizontal capacity to angle capacity multiply listed capacity by (sin) of the angle.

Transverse Brace - Allowable Load with Factor Of Safety = 3.0

ANVIL Fig. 212 Fig. 212FP Size	Piping Or Conduit Nominal Size	Steel Pipe, RMC Conduit	Cast-Iron Pipe	Copper Pipe	EMT Conduit	Sch 5 Steel Pipe
1" Fig. 212	**1 in.**	**309 lbs.**				
1-1/4" Fig. 212	**1-1/4 in.**	**386 lbs.**				
1-1/2" Fig. 212	**1-1/2 in.**	**406 lbs.**	**739 lbs.**			
2" Fig. 212	**2 in.**	**650 lbs.**	**1,165 lbs.**	**650 lbs.**	**650 lbs.**	**650 lbs.**
2-1/2" Fig. 212	**2-1/2 in.**	**1,469 lbs.**	Size N/A	**400 lbs.**	**980 lbs.**	**980 lbs.**
3" Fig. 212	**3 in.**	**1,469 lbs.**	**1,008 lbs.**	**528 lbs.**	**1,255 lbs.**	**1,255 lbs.**
3-1/2" Fig. 212	**3-1/2 in.**	**1,213 lbs.**	Size N/A	Not Tested	**1,213 lbs.**	**1,213 lbs.**
4" Fig. 212	**4 in.**	**1,469 lbs.**	**1,265 lbs.**	**445 lbs.**	**742 lbs.**	**742 lbs.**
5" Fig. 212FP	**5 in.**	**1,469 lbs.**	**1,292 lbs.**	**409 lbs.**		
6" Fig. 212FP	**6 in.**	**1,469 lbs.**	**1,161 lbs.**	**368 lbs.**		
8" Fig. 212FP	**8 in.**	**1,574 lbs.**	**873 lbs.**			
10" Fig. 212FP	**10 in.**	**1,545 lbs.**	**900 lbs.**			
12" Fig. 212FP	**12 in.**	**978 lbs.**	**703 lbs.**			

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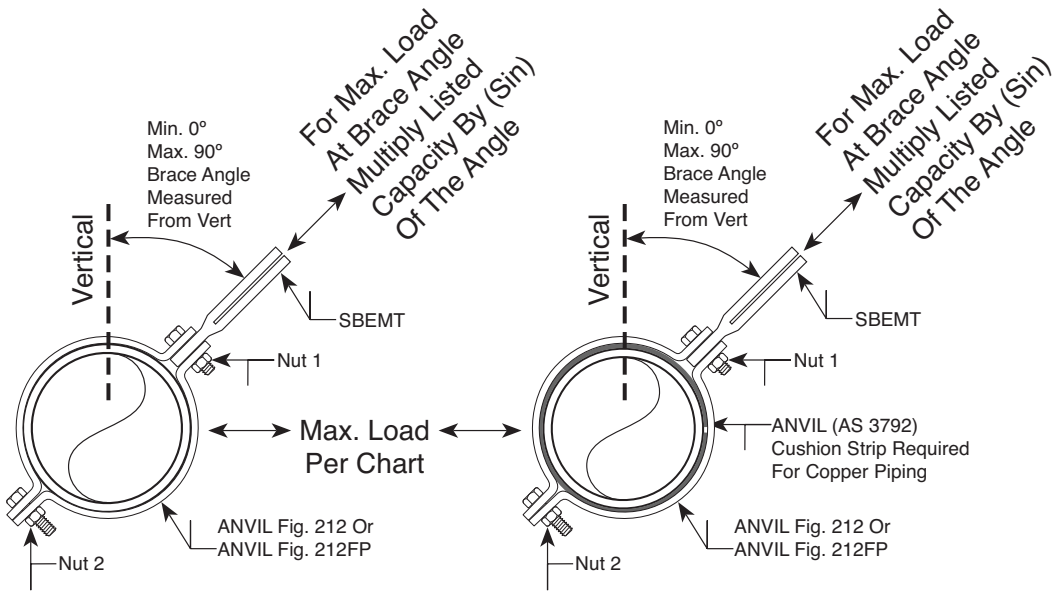
BADGER INDUSTRIES - Anvil FIG: 212 & FIG: 212FP



NOTES:
Capacity based on seismic testing considering both tension and compression.
To convert listed horizontal capacity to angle capacity multiply listed capacity by (sin) of the angle.

Transverse Brace - (LRFD) Load with Factor Of Safety = 2.0

ANVIL Fig. 212 Fig. 212FP Size	Piping Or Conduit Nominal Size	Steel Pipe, RMC Conduit	Cast-Iron Pipe	Copper Pipe	EMT Conduit	Sch 5 Steel Pipe
1" Fig. 212	**1 in.**	**464 lbs.**				
1-1/4" Fig. 212	**1-1/4 in.**	**580 lbs.**				
1-1/2" Fig. 212	**1-1/2 in.**	**609 lbs.**	**1,108 lbs.**			
2" Fig. 212	**2 in.**	**975 lbs.**	**1,747 lbs.**	**975 lbs.**	**975 lbs.**	**975 lbs.**
2-1/2" Fig. 212	**2-1/2 in.**	**2,204 lbs.**	Size N/A	**601 lbs.**	**1,470 lbs.**	**1,470 lbs.**
3" Fig. 212	**3 in.**	**2,204 lbs.**	**1,513 lbs.**	**792 lbs.**	**1,883 lbs.**	**1,883 lbs.**
3-1/2" Fig. 212	**3-1/2 in.**	**1,820 lbs.**	Size N/A	Not Tested	**1,820 lbs.**	**1,820 lbs.**
4" Fig. 212	**4 in.**	**2,204 lbs.**	**1,897 lbs.**	**667 lbs.**	**1,114 lbs.**	**1,114 lbs.**
5" Fig. 212FP	**5 in.**	**2,204 lbs.**	**1,938 lbs.**	**614 lbs.**		
6" Fig. 212FP	**6 in.**	**2,204 lbs.**	**1,741 lbs.**	**553 lbs.**		
8" Fig. 212FP	**8 in.**	**2,361 lbs.**	**1,310 lbs.**			
10" Fig. 212FP	**10 in.**	**2,318 lbs.**	**1,350 lbs.**			
12" Fig. 212FP	**12 in.**	**1,467 lbs.**	**1,055 lbs.**			

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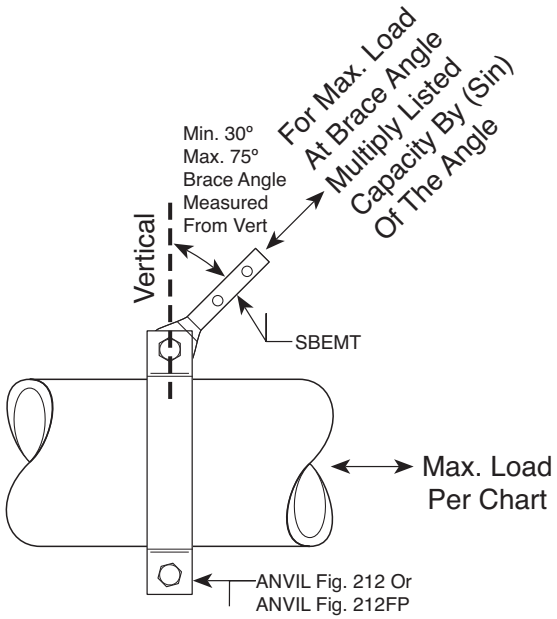
BADGER INDUSTRIES - Anvil FIG: 212 & FIG: 212FP



NOTES:
Capacity based on seismic testing considering both tension and compression.
To convert listed horizontal capacity to angle capacity multiply listed capacity by (sin) of the angle.

Longitudinal Brace - Allowable Load with Factor Of Safety = 3.0

ANVIL Fig. 212 Fig. 212FP Size	Piping Or Conduit Nominal Size	Steel Pipe, RMC Conduit	Cast-Iron Pipe	Copper Pipe	EMT Conduit	Sch 5 Steel Pipe
1" Fig. 212	**1 in.**	(1)				
1-1/4" Fig. 212	**1-1/4 in.**	(1)				
1-1/2" Fig. 212	**1-1/2 in.**	(1)	**369 lbs.**			
2" Fig. 212	**2 in.**	**600 lbs.**	**582 lbs.**	(1)	(1)	(1)
2-1/2" Fig. 212	**2-1/2 in.**	**734 lbs.**	Size N/A	(1)	**490 lbs.**	**490 lbs.**
3" Fig. 212	**3 in.**	**734 lbs.**	**504 lbs.**	(1)	**628 lbs.**	**628 lbs.**
3-1/2" Fig. 212	**3-1/2 in.**	**553 lbs.**	Size N/A	Not Tested	**553 lbs.**	**553 lbs.**
4" Fig. 212	**4 in.**	**504 lbs.**	**376 lbs.**	(1)	**371 lbs.**	**371 lbs.**
5" Fig. 212FP	**5 in.**	**734 lbs.**	**550 lbs.**	(1)		
6" Fig. 212FP	**6 in.**	**734 lbs.**	**580 lbs.**	(1)		
8" Fig. 212FP	**8 in.**	**787 lbs.**	**436 lbs.**			
10" Fig. 212FP	**10 in.**	**707 lbs.**	**450 lbs.**			
12" Fig. 212FP	**12 in.**	**489 lbs.**	**351 lbs.**			

(1) Design and locate transverse bracing at changes in direction to provided longitudinal restraint.

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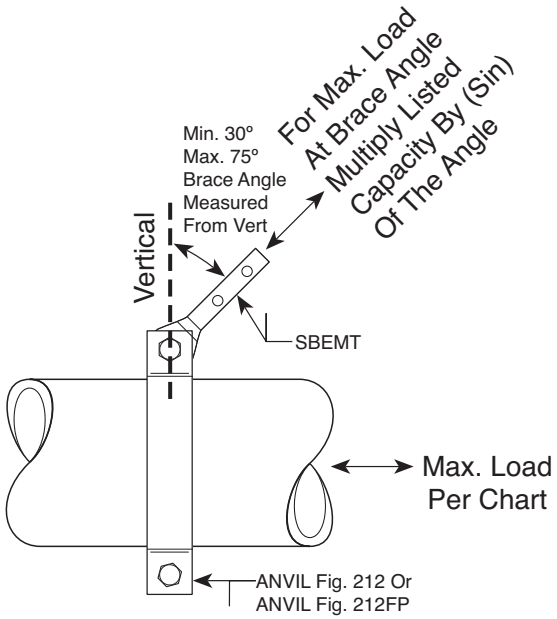
BADGER INDUSTRIES - Anvil FIG: 212 & FIG: 212FP



NOTES:
Capacity based on seismic testing considering both tension and compression.
To convert listed horizontal capacity to angle capacity multiply listed capacity by (sin) of the angle.

Longitudinal Brace - (LRFD) Load with Factor Of Safety = 2.0

ANVIL Fig. 212 Fig. 212FP Size	Piping Or Conduit Nominal Size	Steel Pipe, RMC Conduit	Cast-Iron Pipe	Copper Pipe	EMT Conduit	Sch 5 Steel Pipe
1" Fig. 212	**1 in.**	(1)				
1-1/4" Fig. 212	**1-1/4 in.**	(1)				
1-1/2" Fig. 212	**1-1/2 in.**	(1)	**554 lbs.**			
2" Fig. 212	**2 in.**	**900 lbs.**	**874 lbs.**	(1)	(1)	(1)
2-1/2" Fig. 212	**2-1/2 in.**	**1,102 lbs.**	Size N/A	(1)	**735 lbs.**	**735 lbs.**
3" Fig. 212	**3 in.**	**1,102 lbs.**	**756 lbs.**	(1)	**942 lbs.**	**942 lbs.**
3-1/2" Fig. 212	**3-1/2 in.**	**829 lbs.**	Size N/A	Not Tested	**829 lbs.**	**829 lbs.**
4" Fig. 212	**4 in.**	**75 lbs.**	**564 lbs.**	(1)	**557 lbs.**	**557 lbs.**
5" Fig. 212FP	**5 in.**	**1,102 lbs.**	**825 lbs.**	(1)		
6" Fig. 212FP	**6 in.**	**1,102 lbs.**	**871 lbs.**	(1)		
8" Fig. 212FP	**8 in.**	**1,181 lbs.**	**655 lbs.**			
10" Fig. 212FP	**10 in.**	**1,061 lbs.**	**675 lbs.**			
12" Fig. 212FP	**12 in.**	**734 lbs.**	**527 lbs.**			

(1) Design and locate transverse bracing at changes in direction to provided longitudinal restraint.

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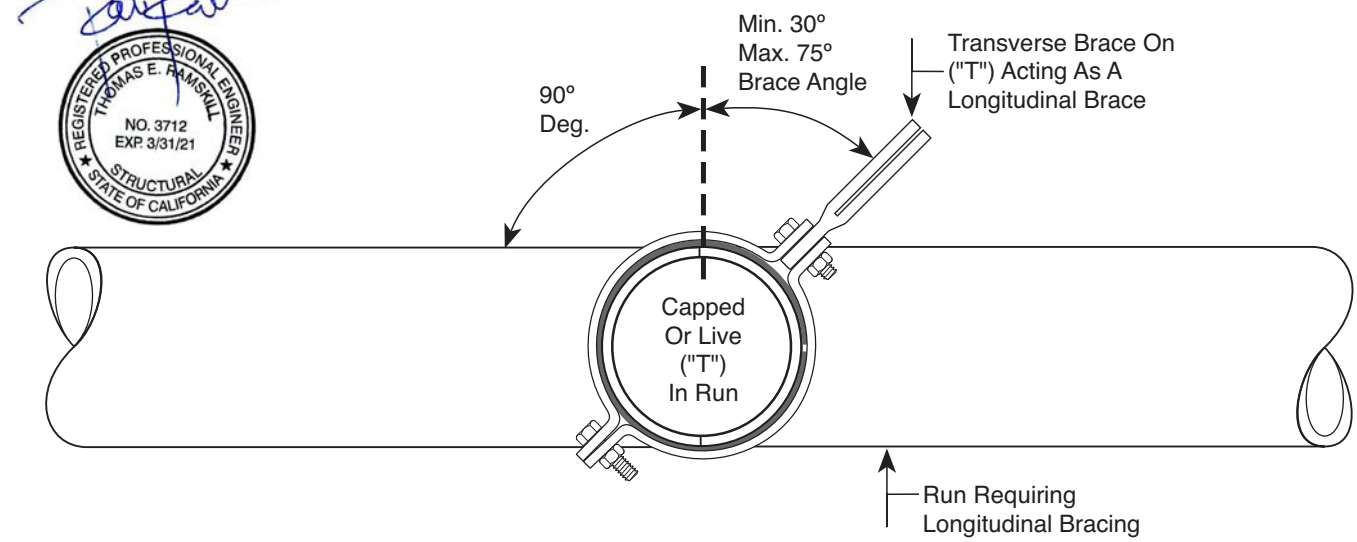
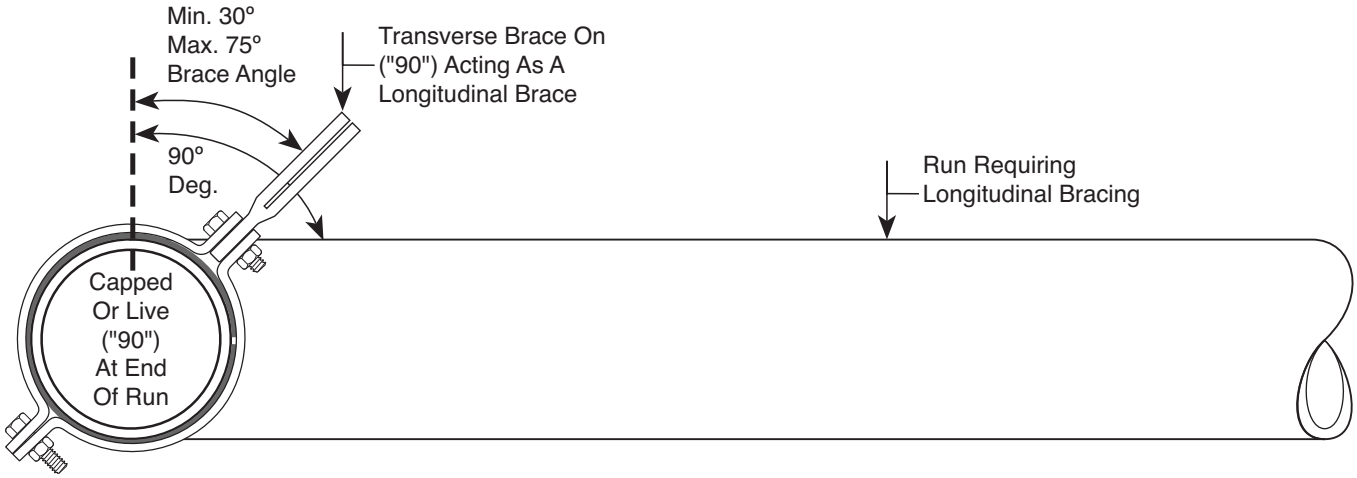
BADGER INDUSTRIES - (TLN)
Transverse as Longitudinal Notice





Notice:

Except when engineered to qualify a greater distance, depicted transverse brace shall be located within (2 feet) of the "Run Requiring Longitudinal Bracing. Orientations other than depicted shall maintain identified angles.

Brace type can be rigid or cable, and shall be installed per the trade system type. The number of brace arms per given brace location shall be as required by the engineered bracing design and thus may differ from that depicted.

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