

SEISMIC BRACING SYSTEMS

Rod Stiffeners

PIPE ROD STIFFENER

- For use with Schedule 40 or Schedule 10 pipe
- Secures pipe to threaded rod for stiffening



Material: Steel
Finish: Electrogalvanized

Part #	Description
CSBRS1	1" Brace Pipe, 3/8", 1/2", 5/8" Rod

NVENT CADDY QUICK CLIP ROD STIFFENER

- Secures strut channel to threaded rod for stiffening
- One hand, snap-in place installation
- No tools or bolt tightening required



Material: Stainless Steel 316 (EN 1.4401)

Part #	Description
CSBRS2	3/8" Rod; Strut Type A (1 5/8" x 1 5/8")
CSBRS3	1/2" Rod; Strut Type A (1 5/8" x 1 5/8")
CSBRS4	5/8" Rod; Strut Type A (1 5/8" x 1 5/8")
CSBRS5	3/4" Rod; Strut Type A (1 5/8" x 1 5/8")
CSBRS6	7/8" Rod; Strut Type A (1 5/8" x 1 5/8")

STRUT ROD STIFFENER

- Secures strut channel to threaded rod for stiffening



Material: Steel
Finish: Electrogalvanized

Part #	Description
CSBRS37EG	3/8", 1/2", 5/8", 3/4" Rod;; Strut Type A (1 5/8" x 1 5/8")

SEISMIC BRACING SYSTEMS

Rigid Bracing

STEEL FLANGE ADAPTER

- Meets requirements of the Buy American Act
- Installs on top or bottom flange of I-beams
- Low profile easily fits between metal deck and steel structure
- Thumb spring retainer allows for ease of positioning
- Available pre-assembled to the Universal Structural Bracket, eliminating field assembly
- Snap-off bolt head helps enable easy installation and inspection of seismic sway braces
- Meets NFPA® 13 as pre-qualified for seismic applications



Material: Steel
Finish: Electrogalvanized



Part #	Description
CSBS1	EG, 1/4"–3/4" Flange
CSBS2	EG, 3/4"–1 1/4" Flange

UL Loads			
Part Number	Flange Thickness	Perpendicular to Structure	Parallel to Structure
CSBS1xx	1/4" - 3/8"	3,000 lb	2,200 lb
	3/8" - 3/4"	3,000 lb	2,765 lb
CSBS2xx	3/4" - 1 1/4"	3,000 lb	2,500 lb

FM Loads								
Part Number	Horizontal Capacity per Installation Angle from Vertical							
	Perpendicular to Structure				Parallel to Structure			
	30° - 44°	45° - 59°	60° - 74°	75° - 90°	30° - 44°	45° - 59°	60° - 74°	75° - 90°
CSBS1xx	850 lb	1,780 lb	2,770 lb	2,840 lb	880 lb	1,430 lb	2,020 lb	2,410 lb
CSBS2xx	1,220 lb	2,140 lb	2,580 lb	2,870 lb	1,100 lb	1,820 lb	2,190 lb	2,680 lb



SEISMIC BRACING SYSTEMS

Rigid Bracing

STEEL FLANGE ADAPTER ASSEMBLY

- Meets requirements of the Buy American Act
- Steel Flange Adapter and Universal Structural Bracket are preassembled, limiting work required in the field
- Installs on top or bottom flange of I-beams
- Low profile easily fits between metal deck and steel structure
- Thumb spring retainer allows for ease of positioning
- Integrated angle gauge easily displays brace member angle of installation
- Snap-off bolt head helps enable easy installation and inspection of seismic sway braces
- Works with 1" through 2" brace pipes to reduce inventory
- Meets NFPA® 13 as pre-qualified for seismic applications



Material: Steel
Finish: Electrogalvanized



Part #	Description
CSBS1A	EG, 1/4"-3/4" Flange

UL Loads			
Part Number	Flange Thickness	Perpendicular to Structure	Parallel to Structure
CSBS1A	1/4" - 3/8"	3,000 lb	2,200 lb
	3/8" - 3/4"	3,000 lb	2,765 lb

FM Loads								
Part Number	Horizontal Capacity per Installation Angle from Vertical							
	Perpendicular to Structure				Parallel to Structure			
	30° - 44°	45° - 59°	60° - 74°	75° - 90°	30° - 44°	45° - 59°	60° - 74°	75° - 90°
CSBS1A	850 lb	1,780 lb	2,770 lb	2,840 lb	880 lb	1,430 lb	2,020 lb	2,410 lb

SEISMIC BRACING SYSTEMS

Rigid Bracing

ADJUSTABLE I-BEAM ADAPTER

- Meets requirements of the Buy American Act
- No loose parts
- No assembly required
- Snap-off bolt head helps enable easy installation and inspection of seismic sway braces
- Meets NFPA®-13 requirements for seismic sway bracing



Material: Steel
Finish: Electrogalvanized



OSHPD

Part #	Description
CSBS3	EG, 1/4"–3/4" Flange, 4"–8 1/2"
CSBS4	EG, 1/4"–3/4" Flange, 4"–14 1/2"
CSBS5	EG, 3/4"–1 1/4" Flange, 4"–18"

UL Loads			
Part Number	Flange Thickness	Perpendicular to Structure	Parallel to Structure
CSBS3	1/4" - 3/8"	3,000 lb	2,200 lb
	3/8" - 3/4"	3,000 lb	2,765 lb
CSBS4	1/4" - 3/8"	3,000 lb	2,200 lb
	3/8" - 3/4"	3,000 lb	2,765 lb
CSBS5	3/4" - 1 1/4"	3,000 lb	2,500 lb

FM Loads								
Part Number	Horizontal Capacity per Installation Angle from Vertical							
	Perpendicular to Structure				Parallel to Structure			
	30° - 44°	45° - 59°	60° - 74°	75° - 90°	30° - 44°	45° - 59°	60° - 74°	75° - 90°
CSBS3xx	1,180 lb	2,210 lb	2,830 lb	2,940 lb	820 lb	1,380 lb	2,080 lb	3,010 lb
CSBS4xx	1,180 lb	2,210 lb	2,830 lb	2,940 lb	820 lb	1,380 lb	2,080 lb	3,010 lb
CSBS5xx	1,220 lb	2,140 lb	2,580 lb	2,870 lb	1,100 lb	1,820 lb	2,190 lb	2,680 lb



SEISMIC BRACING SYSTEMS

Rigid Bracing

MULTI ATTACHMENT

- Disperses load over two anchors
- Minimizes the number of installed braces needed for concrete and wood structures
- Ideal for deck installations
- Use for both lateral and longitudinal sway brace applications
- Meets NFPA®-13 requirements for seismic sway bracing



Material: Steel
Finish: Electrogalvanized



Part #	Description
CSBMA050050EG	9/16" Hole 1, 9/16" Hole 2
CSBMA050075EG	13/16" Hole 1, 9/16" Hole 2

Mount to structure using holes indicated in HS1.

UL Loads		
Part Number	Service Pipe Size	Rating
CSBMA050050EG	1" - 12"	3,740 lb
CSBMA050075EG	1" - 12"	3,740 lb

FM Loads				
Part Number	Horizontal Capacity per Installation Angle from Vertical			
	30° - 44°	45° - 59°	60° - 74°	75° - 90°
CSBMA050050EG	3,290 lb	4,520 lb	5,540 lb	6,200 lb
CSBMA050075EG	3,290 lb	4,520 lb	5,540 lb	6,200 lb



SEISMIC BRACING SYSTEMS

Rigid Bracing

UNIVERSAL STRUCTURAL BRACKET

- Meets requirements of the Buy American Act
- Universal design allows one product to attach directly to concrete, wood, bar joist or I-beam adapters
- Integrated angle gauge easily displays brace member angle of installation
- Snap-off bolt head helps enable easy installation and inspection of seismic sway braces
- Works with 1" through 2" brace pipes to reduce inventory
- Low profile minimizes prying effect on concrete fasteners
- Meets NFPA® 13 as pre-qualified for seismic applications



Material: Steel
Finish: Electrogalvanized



Part #	Description
CSBU1	EG, 9/16" Hole
CSBU2	EG, 13/16" Hole

FM Loads				
Part Number	Horizontal Capacity per Installation Angle from Vertical			
	30° - 44°	45° - 59°	60° - 74°	75° - 90°
CSBU1xx	1,690 lb	2,210 lb	2,660 lb	3,090 lb
CSBU2xx	1,480 lb	2,290 lb	2,860 lb	3,090 lb



SEISMIC BRACING SYSTEMS

Rigid Bracing

UNIVERSAL STRUCTURAL BRACKET, STRUT BRACE

- Meets requirements of the Buy American Act
- For installations where strut brace is perpendicular to structure
- Works with brace members of 12 gauge strut type A
- One wrench size fits all required hardware, eliminating the need to change tools
- Shear-off head helps ensure correct torque and simplifies inspection



Material: Steel
Finish: Electrogalvanized

Part #	Description
CSBUS1	9/16" Hole Size
CSBUS2	13/16" Hole Size

FM Loads — Brace Member: 12 GA Strut Channel				
Part Number	Horizontal Capacity per Installation Angle from Vertical			
	30° - 44°	45° - 59°	60° - 74°	75° - 90°
CSBUS1	2,010 lb	2,840 lb	3,420 lb	3,810 lb
CSBUS2	2,010 lb	2,840 lb	3,420 lb	3,810 lb



SEISMIC BRACING SYSTEMS

Rigid Bracing

STRUT SEISMIC HINGE BRACKET ASSEMBLY

- For installations where strut brace is parallel to structure
- Works with brace members of 12 gauge strut type A
- One wrench size fits all required hardware, eliminating the need to change tools
- Shear-off head helps ensure correct torque and simplifies inspection



Material: Steel
Finish: Electrogalvanized

Part #	Description
CSBUS1PA	9/16" Hole Size
CSBUS2PA	13/16" Hole Size

FM Loads — Brace Member: 12 GA Strut Channel				
Part Number	Horizontal Capacity per Installation Angle from Vertical			
	30° - 44°	45° - 59°	60° - 74°	75° - 90°
CSBU1PA	1,690 lb	2,210 lb	2,660 lb	3,090 lb
CSBU2PA	1,480 lb	2,290 lb	2,860 lb	3,090 lb



SEISMIC BRACING SYSTEMS

Rigid Bracing

TRAPEZE SWAY BRACE, STRUT

- Meets requirements of the Buy American Act
- Seismically braces trapeze hangers
- Retrofit ability allows for the brace to be installed after the trapeze assembly is installed
- Works with brace members of 12 gauge strut type A
- One wrench size fits all required hardware, eliminating the need to change tools
- Shear-off head helps ensure correct torque and simplifies inspection
- FM® Specification Tested



Material: Steel
Finish: Electrogalvanized

Part #	Description
CSBR2	3/8", 1/2", 5/8", 3/4" Rod Size

FM Loads — Brace Member: 12 GA Strut Channel				
Part Number	Horizontal Capacity per Installation Angle from Vertical			
	30° - 44°	45° - 59°	60° - 74°	75° - 90°
CSBR2	1,031 lb	1,812 lb	2,000 lb	2,231 lb



SEISMIC BRACING SYSTEMS

Rigid Bracing

TRAPEZE SWAY BRACE, PIPE

- Meets requirements of the Buy American Act
- Seismically braces trapeze hangers
- Retrofit ability allows for the brace to be installed after the trapeze assembly is installed
- Works with brace members of schedule 40 pipe, EMT conduit, and rigid conduit
- One wrench size fits all required hardware, eliminating the need to change tools
- Shear-off head helps ensure correct torque and simplifies inspection
- FM® Specification Tested



Material: Steel
Finish: Electrogalvanized

Part #	Description
CSBR1	3/8", 1/2", 5/8", 3/4" Rod Size

FM Loads					
Part Number	Brace Member	Horizontal Capacity per Installation Angle from Vertical			
		30° - 44°	45° - 59°	60° - 74°	75° - 90°
CSBR1	1" EMT Conduit	623 lb	881 lb	1,148 lb	1,148 lb
	1" Rigid Conduit	755 lb	1,109 lb	1,738 lb	1,738 lb
	1" Schedule 40 Pipe	755 lb	1,109 lb	1,738 lb	1,738 lb

STRUT SEISMIC HINGE

- Complete hinge assembly
- Ideal for attaching sway bracing to MEP system supports
- Attaches to strut trapezes and to structure



Material: Steel
Finish: Electrogalvanized

Part #	Description
CSBSH00375EG	9/16" Hole 1, 7/16" Hole 2
CSBSH00500EG	9/16" Hole 1, 9/16" Hole 2
CSBSH00625EG	9/16" Hole 1, 11/16" Hole 2
CSBSH00750EG	9/16" Hole 1, 13/16" Hole 2

SEISMIC BRACING SYSTEMS

Rigid Bracing



Seismic Lighting Fixture Clip – see page 313.

- Secures fluorescent light fixtures to the ceiling frame members
- Requires no additional chains, cables or slack wires attached to the fixture
- Helps strengthen integrity of the T-Grid system
- Holds in place against the force of standard fire-hose pressure
- Meets U.S. building code and electrical code specifications
- Also satisfies NEC® 410.16(C) positive attachment for secure fastening of luminaires (fixtures) complying with Building Code Reference AC184

CLEVIS BOLT SPACER

- Seismically braces the 401 Clevis Hanger series for lateral load
- Retrofit ability allows the spacer to be installed after the clevis and pipe are installed
- Ears easily pinch closed around the clevis hanger cross bolt with pliers
- FM® Specification Tested



Material: Steel
Finish: ElectroGalvanized

Part #	Pipe Size
CSBCS0100	1"
CSBCS0125	1 1/4"
CSBCS0150	1 1/2"
CSBCS0200	2"
CSBCS0250	2 1/2"
CSBCS0300	3"
CSBCS0350	3 1/2"
CSBCS0400	4"
CSBCS0500	5"
CSBCS0600	6"
CSBCS0800	8"
CSBCS1000	10"
CSBCS1200	12"

SEISMIC BRACING SYSTEMS

Rigid Bracing

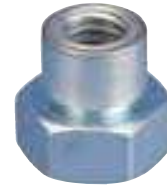
RIVET HEAD SHEAR BOLT

- One wrench size fits all required hardware, eliminating the need to change tools



Part #	Product
CSBSB50EG	Steel Flange Adapter, Steel Flange Adapter Assembly, Adjustable I-Beam Adapter
CSBUB62EG	Strut Seismic Hinge Bracket Assembly, Trapeze Sway Brace, Strut, Universal Structural Bracket, Strut Brace
Material: Steel – Finish: Electrogalvanized	
CSBSBR50EG	Trapeze Sway Brace, Pipe, Universal Structural Bracket, Universal Sway Brace

SHEAR NUT



Material: Steel
Finish: Electrogalvanized

Part #	Product
CSBHN50EG	Universal Sway Brace
CSBLN50EG	Universal Sway Brace
CSBSN37EG	Adjustable I-Beam Adapter, Trapeze Sway Brace, Pipe, Trapeze Sway Brace, Strut



Reference



REFERENCE
Convenient Sizing Information

RIGID STEEL CONDUIT (Heavy-, or thick-Wall Conduit)

Nominal Conduit Size	Outside Diameter	Nominal Inside Diameter	Minimum Wt. Per 100 Ft. With Couplings Attached	Weight Of Conduit & Conductors Per 100 Ft.
3/8"	0.675 in.	0.493 in.	51.5 lbs.	65.1 lbs.
1/2"	0.840 in.	0.632 in.	79.0 lbs.	101.1 lbs.
3/4"	1.050 in.	0.836 in.	105.0 lbs.	145.8 lbs.
1"	1.315 in.	1.063 in.	153.0 lbs.	219.3 lbs.
1 1/4"	1.660 in.	1.394 in.	201.0 lbs.	318.3 lbs.
1 1/2"	1.900 in.	1.624 in.	249.0 lbs.	408.8 lbs.
2"	2.375 in.	2.083 in.	332.0 lbs.	593.8 lbs.
2 1/2"	2.875 in.	2.489 in.	527.0 lbs.	901.0 lbs.
3"	3.500 in.	3.090 in.	682.6 lbs.	1259.0 lbs.
3 1/2"	4.000 in.	3.570 in.	831.0 lbs.	1604.0 lbs.
4"	4.500 in.	4.050 in.	972.3 lbs.	1967.0 lbs.

INTERMEDIATE METAL CONDUIT

Nominal Conduit Size	Outside Diameter	Nominal Inside Diameter	Minimum Wt. Per 100 Ft. With Couplings Attached	Weight Of Conduit & Conductors Per 100 Ft.
1/2"	0.815 in.	0.745 in.	60.0 lbs.	82.1 lbs.
3/4"	1.029 in.	0.954 in.	82.0 lbs.	122.8 lbs.
1"	1.290 in.	1.205 in.	116.0 lbs.	182.3 lbs.
1 1/4"	1.638 in.	1.553 in.	150.0 lbs.	267.3 lbs.
1 1/2"	1.883 in.	1.793 in.	182.0 lbs.	341.8 lbs.
2"	2.360 in.	2.266 in.	242.0 lbs.	503.8 lbs.
2 1/2"	2.857 in.	2.727 in.	401.0 lbs.	775.0 lbs.
3"	3.476 in.	3.346 in.	493.0 lbs.	1069.0 lbs.
3 1/2"	3.971 in.	3.841 in.	573.0 lbs.	1346.0 lbs.
4"	4.466 in.	4.336 in.	638.0 lbs.	1632.0 lbs.

ELECTRICAL METALLIC TUBING (EMT) – (Thin-Wall Conduit)

Nominal Conduit Size	Outside Diameter	Nominal Inside Diameter	Minimum Wt. Per 100 Ft. With Couplings Attached	Weight Of Conduit & Conductors Per 100 Ft.
3/8"	0.577 in.	0.493 in.	23.0 lbs.	36.6 lbs.
1/2"	0.706 in.	0.622 in.	28.5 lbs.	50.6 lbs.
3/4"	0.922 in.	0.824 in.	43.5 lbs.	84.3 lbs.
1"	1.163 in.	1.049 in.	64.0 lbs.	130.3 lbs.
1 1/4"	1.510 in.	1.380 in.	95.0 lbs.	212.3 lbs.
1 1/2"	1.740 in.	1.610 in.	110.0 lbs.	269.8 lbs.
2"	2.197 in.	2.067 in.	140.0 lbs.	401.8 lbs.
2 1/2"	2.875 in.	2.731 in.	205.0 lbs.	579.0 lbs.
3"	3.500 in.	3.356 in.	250.0 lbs.	826.3 lbs.
3 1/2"	4.000 in.	3.834 in.	325.0 lbs.	1098.0 lbs.
4"	4.500 in.	4.334 in.	370.0 lbs.	1364.0 lbs.

Dimensions taken from ANSI™ C80.3-1977.

Conduit plus weight of heaviest conductor combination as specified by the National Electrical Code. ANSI is a trademark of American National Standards Institute, Inc.

REFERENCE

Convenient Sizing Information

RIGID ALUMINUM CONDUIT

Nominal Conduit Size	Outside Diameter	Nominal Inside Diameter	Minimum Wt. Per 100 Ft. With Couplings Attached	Weight Of Conduit & Conductors Per 100 Ft.
1/2"	0.840 in.	0.632 in.	27.4 lbs.	49.5 lbs.
3/4"	1.050 in.	0.836 in.	36.4 lbs.	77.2 lbs.
1"	1.315 in.	1.063 in.	53.0 lbs.	119.3 lbs.
1 1/4"	1.660 in.	1.394 in.	69.6 lbs.	186.9 lbs.
1 1/2"	1.900 in.	1.624 in.	82.2 lbs.	242.0 lbs.
2"	2.375 in.	2.083 in.	115.7 lbs.	377.5 lbs.
2 1/2"	2.875 in.	2.489 in.	182.5 lbs.	556.5 lbs.
3"	3.500 in.	3.090 in.	238.9 lbs.	815.2 lbs.
3 1/2"	4.000 in.	3.570 in.	287.7 lbs.	1061.0 lbs.
4"	4.500 in.	4.050 in.	340.0 lbs.	1334.0 lbs.
5"	5.563 in.	5.073 in.	465.4 lbs.	2028.0 lbs.
6"	6.625 in.	6.093 in.	612.5 lbs.	2870.0 lbs.

Dimensions taken from ANSI™ C80.5-1977. Conduit plus weight of heaviest conductor combination as specified by the National Electrical Code.

SCHEDULE 40 PVC PLASTIC PIPE

Nominal Pipe Size	Outside Diameter	Wall Thickness	Weight Of Pipe	Weight Of Water
1/8"	.405 in.	.068 in.	.04 lbs./ft.	.02 lbs./ft.
1/4"	.540 in.	.088 in.	.07 lbs./ft.	.04 lbs./ft.
3/8"	.675 in.	.091 in.	.10 lbs./ft.	.08 lbs./ft.
1/2"	.840 in.	.109 in.	.15 lbs./ft.	.1 lbs./ft.
3/4"	1.050 in.	.113 in.	.2 lbs./ft.	.2 lbs./ft.
1"	1.315 in.	.133 in.	.3 lbs./ft.	.4 lbs./ft.
1 1/4"	1.660 in.	.140 in.	.4 lbs./ft.	.6 lbs./ft.
1 1/2"	1.900 in.	.145 in.	.5 lbs./ft.	.9 lbs./ft.
2"	2.375 in.	.154 in.	.6 lbs./ft.	1.4 lbs./ft.
2 1/2"	2.875 in.	.203 in.	1.0 lbs./ft.	2.1 lbs./ft.
3"	3.500 in.	.216 in.	1.3 lbs./ft.	3.2 lbs./ft.
3 1/2"	4.000 in.	.226 in.	1.6 lbs./ft.	4.3 lbs./ft.
4"	4.500 in.	.237 in.	1.9 lbs./ft.	5.5 lbs./ft.

ANSI is a trademark of American National Standards Institute, Inc.



REFERENCE

Convenient Sizing Information

ALL THREADED ROD (ATR)

Nominal Size and Thread	Root Area		Design Load (SF = 5)	
1/4" - 20	0.027 in. ²	0.174 cm ²	240 lbs.	1.07 kN
5/16" - 18	0.045 in. ²	0.290 cm ²	400 lbs.	1.78 kN
3/8" - 16	0.068 in. ²	0.438 cm ²	610 lbs.	2.71 kN

Dimensions taken from ANSI™ B1.1-1982 Unified Inch Screw Threads.

All threads are UNCR series.

Tabulated loads are based on an allowable tensile stress of 12000 psi (82.7 MPa) reduced by 25% resulting in 9000 psi (62 MPa). From ANSI®/MSS SP-58, Table 3.

ANSI is a trademark of American National Standards Institute, Inc.

MC CABLE

AWG Size	Nominal Outer Diameter in Inches	
	Insulated Ground	Bare Ground
14-2 Solid	.450	.430
14-3 Solid	.480	.435
14-4 Solid	.510	.485
12-2 Solid	.495	.465
12-3 Solid	.530	.500
12-4 Solid	.565	.560
10-2 Solid	.560	.520
10-3 Solid	.600	.550
10-4 Solid	.645	.615
8-2 Strd.	.710	.675
8-3 Strd.	.770	.710
8-4 Strd.	.835	.770
6-2 Strd.	.795	.755
6-3 Strd.	.865	.800
6-4 Strd.	.945	.865
4-2 Strd.	.945	.895
4-3 Strd.	1.035	.945
4-4 Strd.	1.135	1.035
2-2 Strd.	1.075	1.015
2-3 Strd.	1.180	1.075
2-4 Strd.	1.295	1.180



REFERENCE

Convenient Sizing Information

AC CABLE

Type Of Armored Cable	Type Of Circuit Conductor	AWG Size Of Circuit Conductors	Minimum External Diameter of Armor (Inches)							
			Cable with Two Circuit Conductors and No Grounding Conductor	Cable with Two Circuit Conductors and No Grounding Conductor and Cable Grounding Conductor	Cable with Three Circuit Conductors and No Grounding Conductor and Cable Grounding Conductor	Cable with Four Circuit Conductors and No Grounding Conductor and Cable Grounding Conductor and a Grounding Conductor	Cable with Four Circuit Conductors and a Grounding Conductor	Cable with Four Circuit Conductors and a Grounding Conductor and a Grounding Conductor		
			Solid	Stranded	Solid	Stranded	Solid	Stranded	Solid	Stranded
		14	0.433	0.453	0.486	0.522				
		12	0.467	0.489	0.520	0.545				
		10	0.476	0.500	0.541	0.587				
		8	0.570	0.601	0.654	0.714	0.637	0.695	0.759	0.882
		6					0.739	0.807		
ACTMM	THHN	4					0.885	0.970	1.066	1.228
		2					1.014	1.115		

REFERENCE

The nVent CADDY Fastener Story

QUALITY CONTROL

Fasteners, manufactured by nVent CADDY, are produced from spring steel, galvanized steel, plastic, as well as other materials. We are known in the industry as a leader in the design and production of Spring Steel Fasteners. The following is the story of how we manufacture these quality Spring Steel Fasteners.

MANUFACTURING

The steel for Fasteners is procured in mill lots to AISI and nVent Standards; other materials are equally controlled.

LOAD RATING

Fasteners are designed with two load limits:

- 1) Static load limit is a rated stationary load limit for a fastener. nVent Standards require that test samples with stand a load equal to three times this catalog rating.
- 2) The ultimate static load limit is the rated stationary load limit which, if exceeded, may cause failure of the fastener. nVent Standards require that test samples with stand this catalog rating. Some Fasteners also are designed with an undefined rating and are to be used for positioning only with no loading on them.
- 3) Applications and load ratings may change without notice. Refer to instruction sheet in box or contact nVent for current load and application information.

Static load limit and ultimate static load limit values specify maximum allowable installed loads for user applications. These values are for loads applied VERTICALLY to the normal fastener installation except as may be diagrammed otherwise. Where the load rating of the Fastener exceeds that of the structural member, the lowest rated item must set the load limit.

NOTE: Fasteners are intended for support of electrical components at stationary loads. Not to be used for dynamic loads such as fluid and gas distribution components, etc.

IMPORTANT

Fasteners used with wire, rod, or threaded rod are designed for use with coarse round wire, hot rolled carbon steel bar, cold rolled carbon steel bar and threaded rod all meeting AISI specifications and tolerances.



REFERENCE

The nVent CADDY Fastener Story

QUALITY ASSURANCE

Incoming steel is sampled and inspected for conformance to AISI specifications and nVent Standards. Test fixtures and procedures for development and quality control are designed to simulate normal field applications. Fasteners are tested, on a sample basis, to nVent Standards by certified inspectors. Testing of specific quantities of Fasteners to destruction in special statistical audits ensures a continuous high level of quality.

HEAT TREATING

nVent CADDY Spring Steel Fasteners are heat treated in modern shaker hearth furnaces. Precision controls maintain heat treat operations within the established limits developed by nVent for Fasteners. nVent Standards incorporate consideration of fastener material and application.

Fasteners are conveyed directly from the high temperature furnace to the quench tank, through a cleaning cycle and into the tempering furnace. The complete heat treat cycle is automatically controlled.

PRODUCTION PRESSES

Fasteners are produced with modern presses and precision tooling. Presses and tools are designed for close tolerance stamping.

RESEARCH AND DEVELOPMENT

nVent Research and Development department is constantly working on new Fasteners and, at the same time, improving the present line. Starting with six basic Fasteners, the line now has several hundred basic types. The majority of the Fastener line is the result of nVent development of Fasteners to provide a solution for a customer's problem.

NOTE: Special applications not specified MUST be submitted to nVent for engineering approval and load rating.

All cULus Listed Fasteners meet the requirements of one of the following UL standards: UL1565, UL2239 or UL514B.



MATERIALS – METALS

Steel

Steel is an alloy of iron and other elements, the most common being Carbon. Varying the amount of alloying elements and the form of their presence in the steel controls qualities such as the hardness, ductility, tensile strength and corrosion resistance of the resulting steel.

Stainless Steel

Stainless Steel is an alloy of iron and carbon that is more resistant to rust, staining and corrosion than regular steel.

Stainless Steel 304 (1.4301)

The most familiar stainless steel is Type 304, containing 18-20% chromium and 8-10% nickel.

- Also referred to as 'A2'

Stainless Steel 316 (1.4401)

The second most common stainless steel is 316, also called marine grade stainless, used primarily for its increased resistance to corrosion.

- Also referred to as 'A4'

Spring Steel

Spring steel is an alloy of iron and Carbon. Spring steel alloys can be easily formed into complex shapes, and then heat-treated to greatly increase strength.

*Note: Spring steel Fasteners are for indoor use in non-corrosive environments. Mild steel Fasteners can be used outdoors in humid or mildly corrosive environments. Not to be used in certain areas such as over indoor pools, etc.

Stainless Spring Steel 301

A highly ductile steel used on formed products that hardens rapidly during mechanical working. Stainless 301 has better wear resistance and fatigue strength than Stainless 304 or standard Spring Steel.

Cast Iron

Cast Iron is a commercial alloy of iron, carbon and silicon that is cast in a mold. This results in a product that is hard, brittle, non-malleable and incapable of being hammer-welded but more easily fusible than steel.



MATERIALS – PLASTICS AND RUBBERS

Plastics versus thermosets

- Thermoplastics will melt and flow when heated.
- Thermosets have undergone an irreversible chemical reaction and additional heat will not melt them further.

Polyethylene (PE)

Polyethylene is a tough, light, flexible synthetic resin and is the most common thermoplastic. Many different grades exist with a broad range of physical properties.

Polypropylene (PP)

Polypropylene is a thermoplastic that is light, rugged and resistant to many chemical solvents, bases and acids. It is typically tough and flexible.

Polyvinyl Chloride (PVC)

Polyvinyl chloride (abbreviated PVC), is a thermoplastic made from a tough, chemically resistant synthetic resin. Unplasticized PVC is stiff and strong, but can be made softer and more flexible by the addition of plasticizers.

EPDM Rubber

EPDM (Ethylene Propylene Diene Monomer) is a thermoset elastomer that is inherently resistant to ozone, water and weather, and characterized by a wide range of applications.

SBR Rubber

SBR (Styrene Butadiene Rubber) is the most common type of synthetic rubber. This thermoset has good abrasion resistance, flexibility, and aging stability when protected by additives.

Nylon

Nylon is part of a family of thermoplastics known generically as polyamides. It is generally characterized by its durability, high elongation and excellent abrasion resistance.

Polyamide

See nylon

Xenoy

Xenoy is a thermoplastic blend that offers good chemical resistance, great impact resistance (even at low temperatures), and some heat resistance in conditions that require a high degree of toughness.

Polyisocyanurate

Polyisocyanurate (also called PIR, polyiso, or ISO) is a cellular, thermoset that is typically produced as a foam and used in rigid thermal insulation. As a result of its excellent thermal insulating efficiency, polyiso foam has become the standard for low temperature insulation applications.

Hydrous Calcium Silicate

Hydrous calcium silicate is an asbestos-free insulating material that can be molded into rigid shapes and forms for applications where precise temperature control, personnel protection and energy savings are required.



FINISHES

Painted

Paint is any liquid composition, which after application to a surface in a thin layer, is converted to a solid film. It is most commonly used to protect, color or provide texture to objects.

nVent CADDY ARMOUR

The Armour coating system features bi-metallic corrosion protection with an inorganic basecoat for sacrificial protection and an organic topcoat for barrier protection. The nVent standard for Armour includes at least 1,000 hours resistance against red rust when tested per the ASTM B117 and DIN 50021 salt spray tests. Armour is RoHS compliant.

Electro-galvanized (EG)

ASTM B633

This corrosion protective coating is applied after the fabrication of steel or malleable iron parts and uses an electrolytic plating process that deposits zinc. A second passivation coating of chromate is then applied for additional protection. Zinc electroplate products are recommended for indoor and mildly corrosive applications.

Pre-galvanized Zinc (PG)

ASTM A653/A653M

Pre-galvanized zinc is produced by continuously rolling steel coils or sheets through molten zinc at the mills. The coils or sheets are slit to size and fabricated by forming, shearing or punching to produce the finished product. During fabrication cut edges are not generally zinc coated; however, the zinc near the uncoated metal

becomes a sacrificial anode to protect the bare areas.

Pre-galvanized zinc products are generally recommended for indoor use on mildly corrosive environments.

Hot Dip Galvanized Zinc (HDG)

ASTM A123

After a product has finished its fabrication process, it is dipped into a bath of molten zinc. The zinc completely coats all edges and surfaces. Zinc thickness is controlled by the time the part is immersed in the molten zinc bath. Hot dip galvanized zinc products are recommended for indoor, outdoor and mildly corrosive environments.

Black Oxide

ASTM D769

Black oxide or blackening is a conversion coating for ferrous materials, copper and copper based alloys, zinc, powdered metals, and silver solder. It is used to add mild corrosion resistance and for appearance.

Copper Electro-Plated

Copper plating is the process in which a thin layer of copper is deposited on an item via an electric current.

Epoxy Powder Coated

Epoxy powder coating is applied electrostatically as a free-flowing, dry powder and finished by curing under heat to form a "skin". It is typically used to create a durable, hard wearing finish that is tougher than conventional paint.

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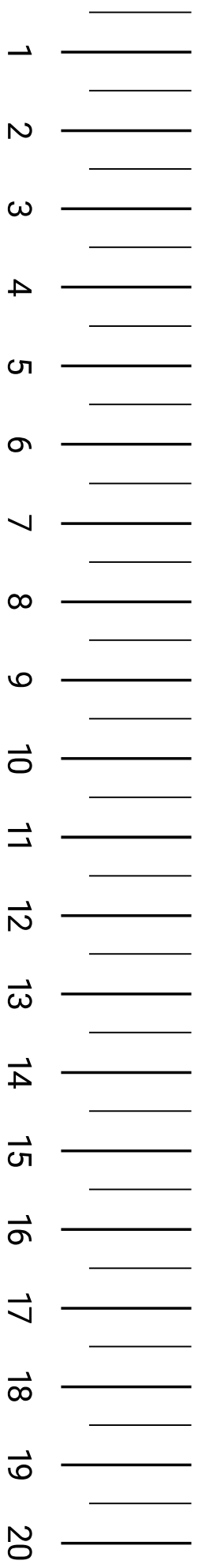
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