



U N I S T R U T H A W A I I



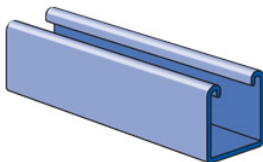


U N I S T R U T H A W A I I

General Support

P 1000

P1000 • Twelve Gauge Channel, Solid



Area of Section	0.555 in ² (3.6 cm ²)	
	Axis 1-1	Axis 2-2
Moment of Inertia	(I) 0.185 in ⁴ (7.7 cm ⁴)	0.236 in ⁴ (9.8 cm ⁴)
Section Modulus	(S) 0.202 in ³ (3.3 cm ³)	0.290 in ³ (4.8 cm ³)
Radius of Gyration	(r) 0.577 in (1.5 cm)	0.651 in (1.7 cm)

Note:

- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams should be supported so as to prevent rotation and twist.
- Allowable uniformly distributed loads are listed for various simple spans, that is, a beam on two supports. If load is concentrated at the center of the span, multiply load from the table by 0.5 and corresponding deflection by 0.8.
- The lateral bracing factor should be multiplied by the load to determine the load retained based on the distance between lateral braces.



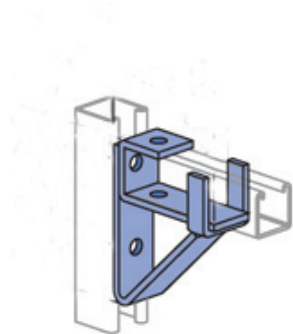
Tel 808-833-2502



U N I S T R U T H A W A I I

Air Conditioning Equipment Support

P 1075



P1075 • Bracket

Standard Dimensions:

- Hole Diameter: 9/16" (14mm)
- Hole Spacing (from end): 13/16" (21mm)
- Hole Spacing (on center): 1-7/8" (48mm)
- Width: 1-5/8" (41mm)
- Thickness: 1/4" (6mm)

Note:

- When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.



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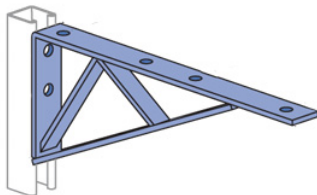


U N I S T R U T H A W A I I

Air Conditioning Equipment Support

P 1777

P1777 • Bracket



Standard Dimensions:

- Hole Diameter: 9/16" (14mm)
- Hole Spacing (From End): 13/16" (21mm)
- Hole Spacing (On Center): 1-7/8" (48mm)
- Width: 1-5/8" (41mm)
- Thickness: 1/4" (6mm)

Note:

- When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.



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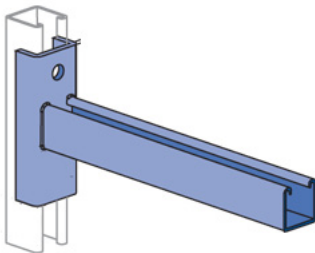


U N I S T R U T H A W A I I

Air Conditioning Equipment Support

P2233

P2233 • Bracket, Slot Up



Standard Dimensions:

- Hole Diameter: 9/16" (14mm)
- Hole Spacing (From End): 13/16" (21mm)
- Hole Spacing (On Center): 1-7/8" (48mm)
- Width: 1-5/8" (41mm)
- Thickness: 1/4" (6mm)

Note:

- When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.



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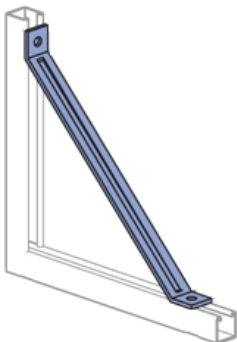


U N I S T R U T H A W A I I

Air Conditioning Equipment Support

P2452

P2452 • Brace



Standard Dimensions:

- Hole Diameter: 9/16" (14mm)
- Hole Spacing (From End): 13/16" (21mm)
- Hole Spacing (On Center): 1-7/8" (48mm)
- Width: 1-5/8" (41mm)
- Thickness: 1/4" (6mm)

Note:

- When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.



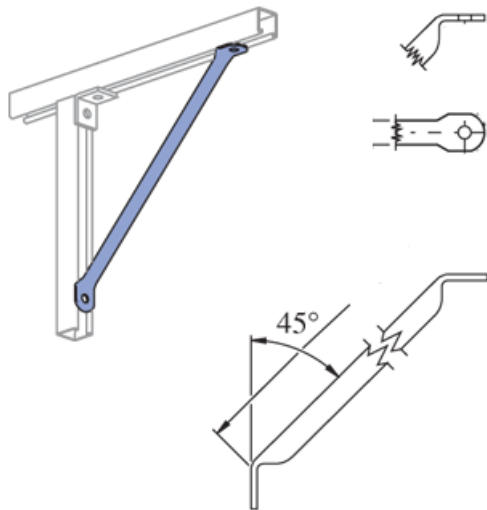
Tel 808-833-2502



Air Conditioning Equipment Support

P2458-18

P2458 • 18 Tubular Knee Braces



Standard Dimensions:

- Hole Diameter: 9/16" (14mm)
- Hole Spacing (From End): 13/16" (21mm)
- Hole Spacing (On Center): 1-7/8" (48mm)
- Width: 1-5/8" (41mm)
- Thickness: 1/4" (6mm)

Note:

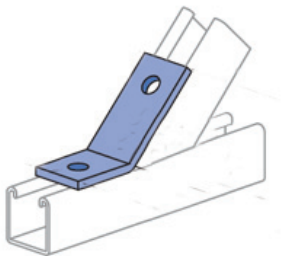
- When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.



U N I S T R U T H A W A I I

Seismic Bracing

P 1546



P1546, P2094 though P2100 • Two Hole, Outside Angle Fitting (1-5/8" series)

Standard Dimensions:

- Hole Diameter: 9/16" (14mm)
- Hole Spacing (from end): 13/16" (21mm)
- Hole Spacing (on center): 1-7/8" (48mm)
- Width: 1-5/8" (41mm)
- Thickness: 1/4" (6mm)



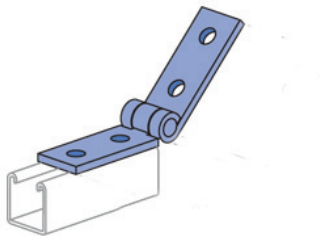
Tel 808-833-2502



U N I S T R U T H A W A I I

Seismic Bracing

P 1354



P1354 • Four Hole Hinge

Standard Dimensions:

- Hole Diameter: 9/16" (14mm)
- Hole Spacing (from end): 13/16" (21mm)
- Hole Spacing (on center): 1-7/8" (48mm)
- Width: 1-5/8" (41mm)
- Thickness: 1/4" (6mm)

Note:

- When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.



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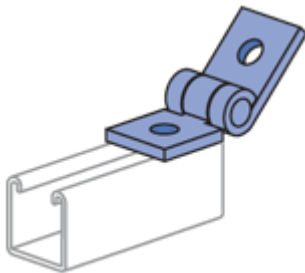


U N I S T R U T H A W A I I

Seismic Bracing

P 1843

P1843 • Two Hole Adjustable Hinge



Standard Dimensions:

- Hole Diameter: 9/16" (14mm)
- Hole Spacing (From End): 13/16" (21mm)
- Hole Spacing (On Center): 1-7/8" (48mm)
- Width: 1-5/8" (41mm)
- Thickness: 1/4" (6mm)

Note:

- When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.



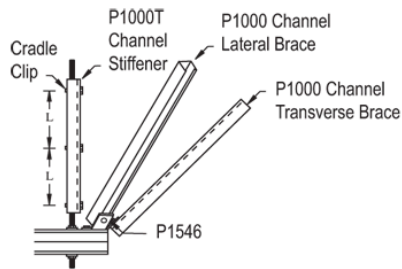
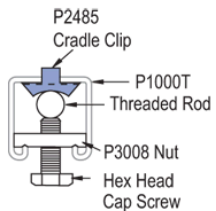
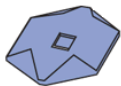
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U N I S T R U T H A W A I I

Seismic Bracing

P2485



P2485 • Cradle Clip

Materials:

- Unistrut channel nuts are manufactured from mild steel bars, and after machining operations are completed, they are case hardened, assuring positive biting action into the inturned edge of the Unistrut channel.

Threads:

- All threads on the nuts and bolts are Unified and American coarse screw threads.



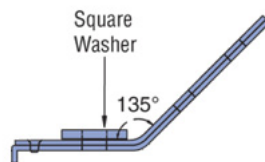
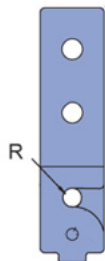
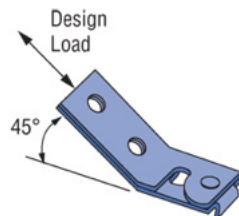
Tel 808-833-2502



U N I S T R U T H A W A I I

Seismic Bracing

SPF 100



SPF100 • Seismic Pivot Fitting

Standard Dimensions:

- Hole Diameter: 9/16" (14mm)
- Hole Spacing (From End): 13/16" (21mm)
- Hole Spacing (On Center): 1-7/8" (48mm)
- Width: 1-5/8" (41mm)
- Thickness: 1/4" (6mm)

Note:

- When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.



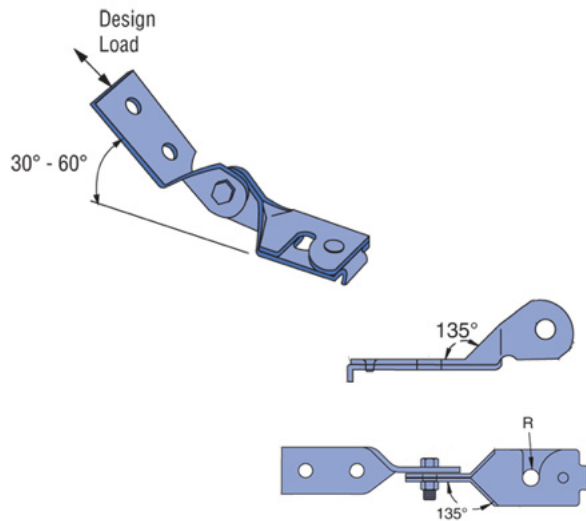
Tel 808-833-2502



U N I S T R U T H A W A I I

Seismic Bracing

SPF200



SPF200 • Adjustable Seismic Pivot Fitting

Standard Dimensions:

- Hole Diameter: 9/16" (14mm)
- Hole Spacing (from end): 13/16" (21mm)
- Hole Spacing (on center): 1-7/8" (48mm)
- Width: 1-5/8" (41mm)
- Thickness: 1/4" (6mm)

Note:

- When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.



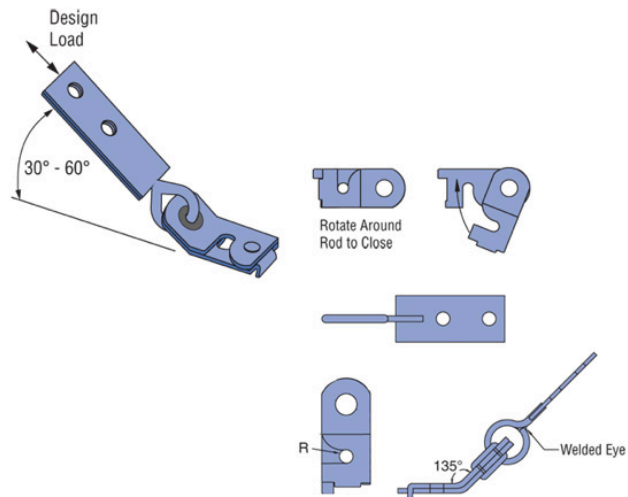
Tel 808-833-2502



U N I S T R U T H A W A I I

Seismic Bracing

SPF300



SPF300 • Seismic Pivot Fitting

Standard Dimensions:

- Hole Diameter: 9/16" (14mm)
- Hole Spacing (from end): 13/16" (21mm)
- Hole Spacing (on center): 1-7/8" (48mm)
- Width: 1-5/8" (41mm)
- Thickness: 1/4" (6mm)

Note:

- When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.



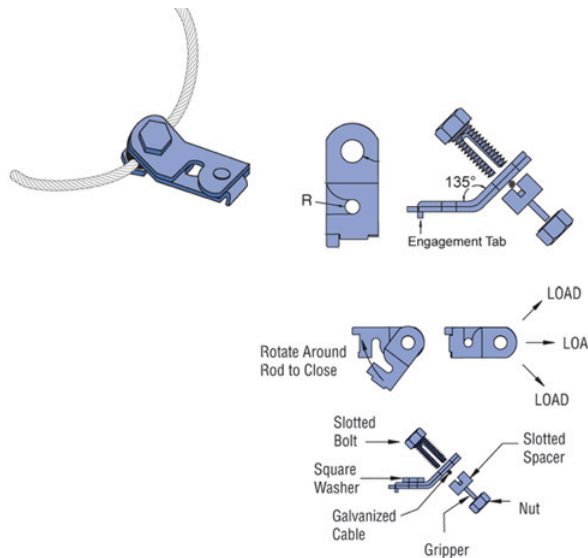
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U N I S T R U T H A W A I I

Seismic Bracing

P 1777



P1777 • Bracket

Standard Dimensions:

- Hole Diameter: 9/16" (14mm)
- Hole Spacing (from end): 13/16" (21mm)
- Hole Spacing (on center): 1-7/8" (48mm)
- Width: 1-5/8" (41mm)
- Thickness: 1/4" (6mm)

Note:

- When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.



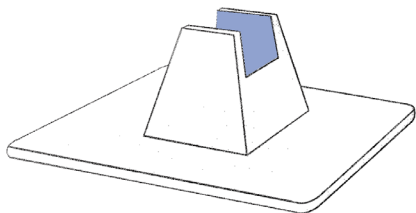
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U N I S T R U T H A W A I I

Roof Mounted Support

UP-BK



UP-BK • Pipe and Conduit Support

- The UniPier Rooftop support system provides a simple and versatile way to support and manage pipe, tubing, conduit, HVAC systems, and the like. The UniPier system supports without roof surface penetration and allows the parts to remain off the surface.

Materials:

- Unistrut pipe clamps, unless noted, are punch-press made from hot-rolled, pickled and oiled steel plates, strip or coil, and conform to ASTM specifications A1008, A575, A576, A635, or A36. The fitting steel also meets the physical requirements of ASTM A1011 SS GR 33. The pickling of the steel produces a smooth surface free from scale. Many items are also available in stainless steel.



Tel 808-833-2502

The background of the slide features a close-up photograph of various mechanical components, including metal springs and a small rectangular metal part, all rendered in a monochromatic blue color scheme. On the left side, there are three vertical yellow bars of varying heights.

M I R O I N D U S T R I E S

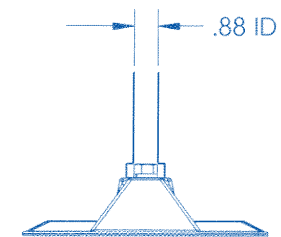
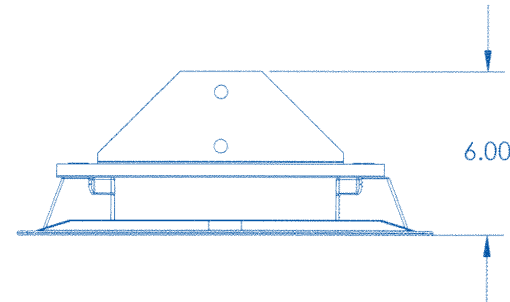
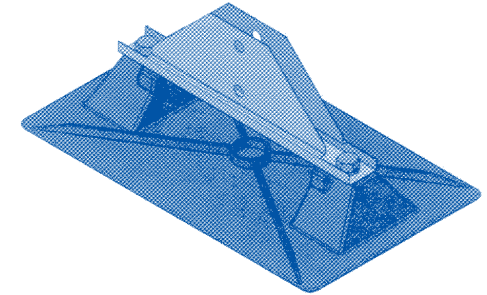
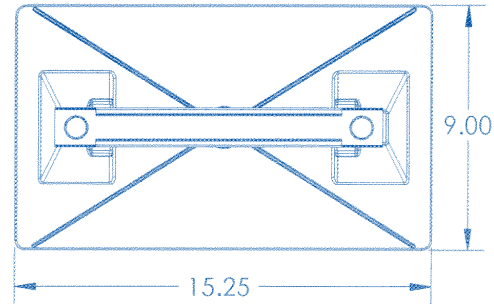
Roof Mounted Support

6-H Base P

6-H Base P • Duct + Cable Tray Support

Specifications:

- Load: Not to exceed 150 pounds/base
- Material: Base is made of polycarbonate plastic and componenets are hot dip galvanized steel.
- Weight: Each base weighs 2.5 pounds



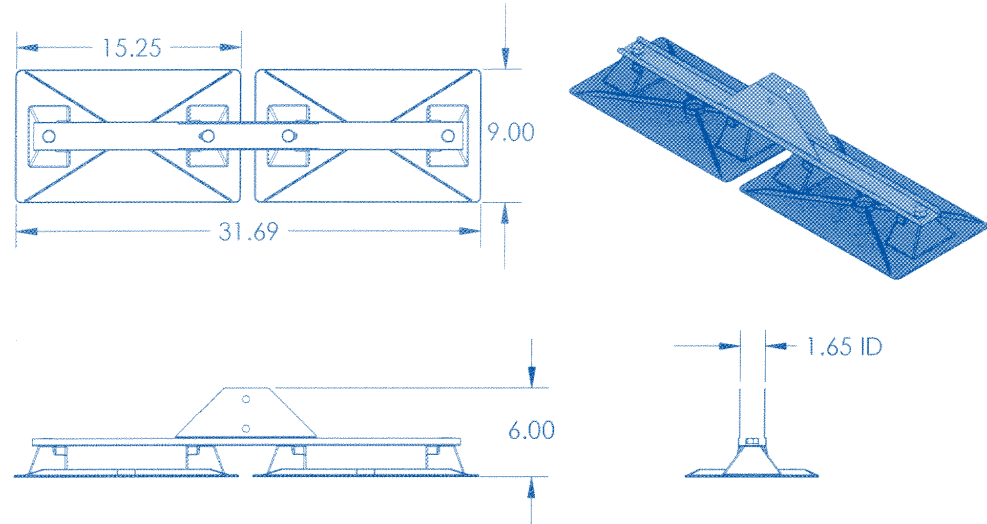
Roof Mounted Support

8-H-DB Base P

8-H DB Base P • Duct + Cable Tray Support

Specifications:

- Load: Not to exceed 350 pounds/base
- Material: Base is made of polycarbonate plastic and components are hot dip galvanized steel.
- Weight: Each base weighs 4.5 pounds



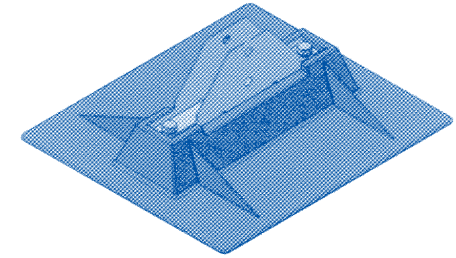
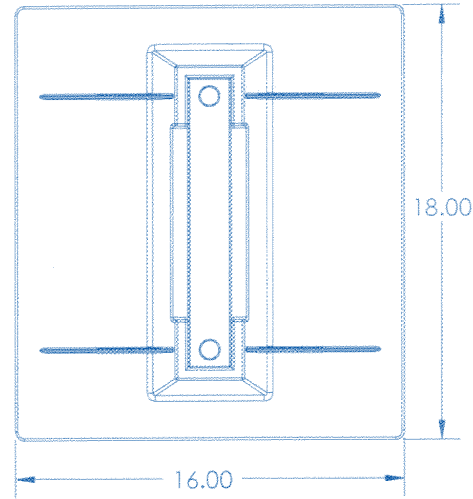
Roof Mounted Support

8-H-SB Base P

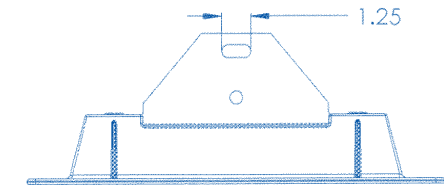
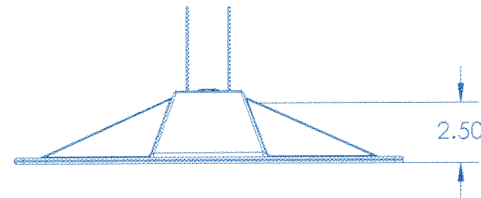
8-H SB Base P • Duct + Cable Tray Support

Specifications:

- Load: Not to exceed 350 pounds/base
- Material: Base is made of polycarbonate plastic and componenets are hot dip galvanized steel.
- Weight: Each base weighs 5.5 pounds

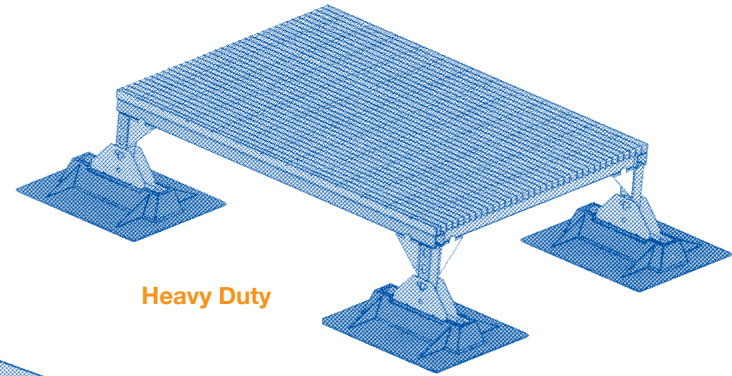


(Optional configuration to allow for adjustability)

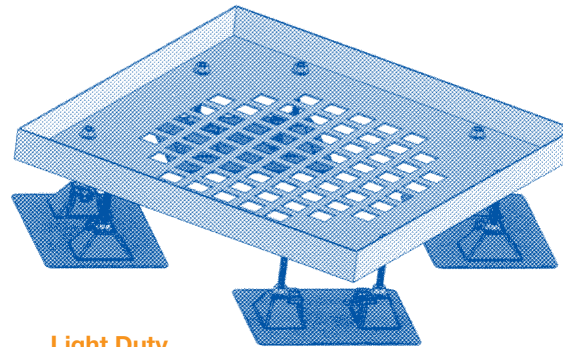


Roof Mounted Support
Mechanical Supports

Mechanical Supports •
Duct + Cable Tray Support



Heavy Duty

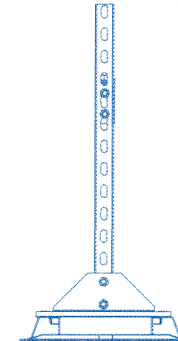
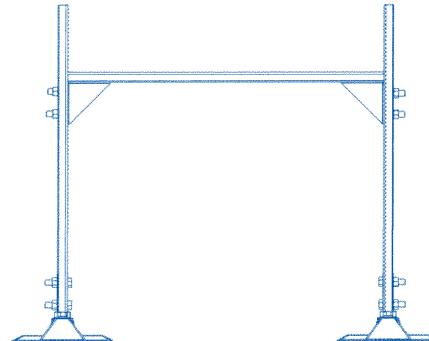
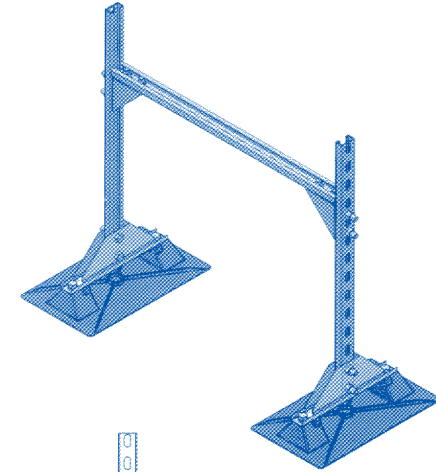
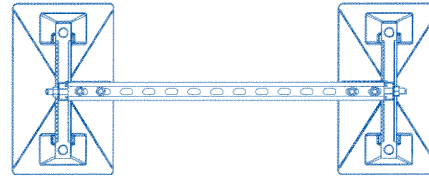


Light Duty

Roof Mounted Support

6-DS P

6-DS P • Duct + Cable Tray Support



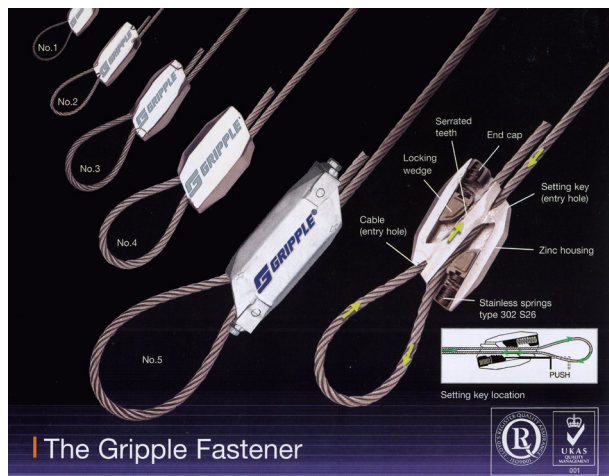


G R I P P L E S Y S T E M S

**G****R****I****P****P****L****E**

General Support

Fasteners



Size

Weight Range

SWL (safe working load)

Gripple Hangers: Standard Product Range

No1	0 - 25 lbs	25 lbs
No2	22 - 100 lbs	100 lbs
No3	100 - 200 lbs	200 lbs
No4	200 - 495 lbs	495 lbs
No5	495 - 715 lbs	715 lbs

Gripple Hangers: Stainless Product Range

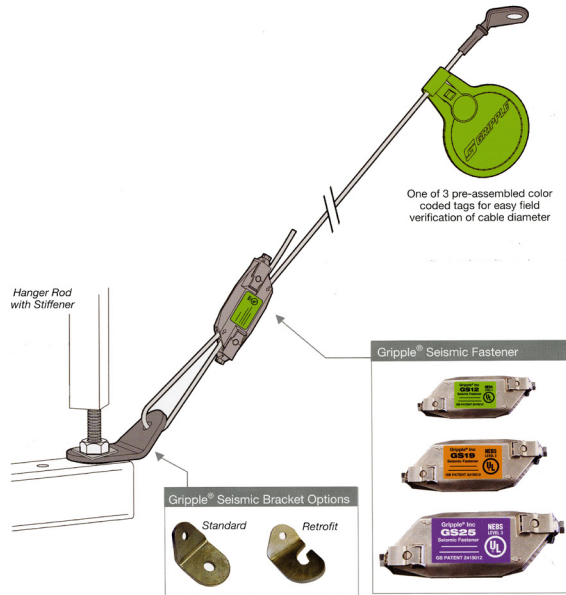
No2	0 - 100 lbs	100 lbs
No3	100 - 200 lbs	200 lbs



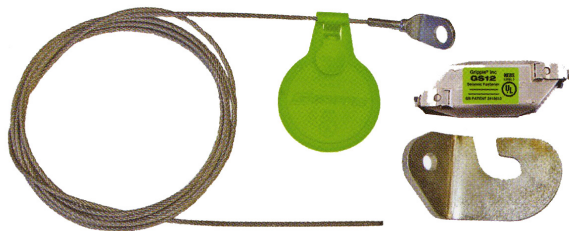
Tel 808-833-2502



Seismic Bracing Fasteners



Seismic Bracing System



Seismic Bracing System Contents

Introduction

Grippler Seismic Bracing Systems are specifically designed and engineered to brace and secure nonstructural equipment and components within a building or structure to minimize earthquake damage to suspended components.

Grippler Seismic Bracing Systems are ideal for use on nonstructural components and equipment requiring seismic design, such as in essential facilities that are required for emergency operations in the aftermath of an earthquake.

Advantages

- Complete pre-engineered systems
- No field swaging of cables
- Up to ten times faster to install
- No tools required
- Color coding allows easy field verification
- New or retrofit installations
- UL NEBS GR 63 Core Certification



Longitudinal Bracing



Headquarters

O'ahu • Honolulu

660 Mapunapuna Street

Honolulu, Hawai'i 96819

Tel 808-833-2502

Fax 808-836-1496

Neighbor Island Locations

Maui • Kahului

153A Alamaha Street

Kahului, Maui, Hawai'i 96732

Tel 808-873-7461

Fax 808-872-9794

Big Island • Kona

74-5489 Loloku Street, Bay A

Kailua-Kona, Hawai'i 96740

Tel 808-329-3684

Fax 808-329-3694

Kaua'i • Lihue

3018 Aukele Street

Lihue, Kaua'i, Hawai'i 96766

Tel 808-245-9680

Fax 808-245-6924