

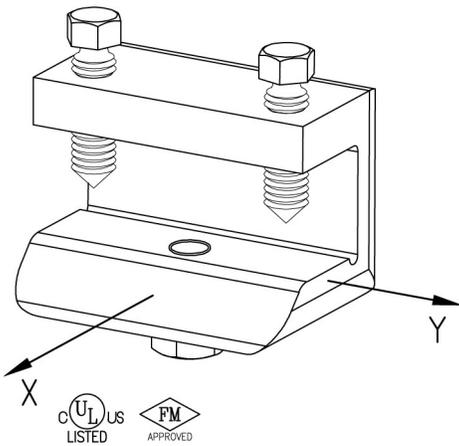


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SEISMIC BRACING

FIG. 045

SWAY BRACE STRUCTURAL ADAPTER



Function: Sway brace adapter used to attach a PHD Manufacturing sway brace assembly to a steel structural member of $\frac{3}{8}$ " minimum and $1\frac{1}{4}$ " maximum thickness. To provide a point of connection when drilling or welding is not allowed or not practical. Sway brace assemblies are intended to be installed in accordance with NFPA 13 and the manufacturer's installation instructions.

Size: Braces up to 8" Pipe MAX. Attaches to $\frac{3}{8}$ " MINIMUM and $1\frac{1}{4}$ " MAX thick structural members. When attaching to a structure less than $\frac{3}{8}$ " thick, please see PHD Manufacturing Fig. 035.

Material: Ductile iron

Finish: Electro-galvanized

Install: Place on structural member with the flange contacting the back of the jaw. Tighten set screws finger tight, then evenly tighten until hex heads break off. Attach PHD structural attachment to Fig. 045 with the supplied attachment bolt, ensuring that the attachment bolt head bottoms out securely. Please note that the maximum load will be limited by the PHD Manufacturing structural attachment utilized with this adapter.

Approvals: Underwriters Laboratories listed for US and Canada and Factory Mutual approved. Listed for use with NFPA fastener tables and PHD sway brace components only.

Ordering: Specify figure number.

UL Maximum Design Load					
Pipe Size	(200)	lbs.	kN	Wt. Each	
				lbs.	kg
8" MAX	(200)	1370	(6.09)	2.38	(1.08)
UL's current Listings, shown above, are predicated on installation in accordance with the latest edition of NFPA 13. The 2016 and earlier editions of NFPA 13 referenced a minimum safety of 1.5 for the load rating as compared to 2.2 for the current edition. The load ratings noted in table below, Previously Listed Loads, are consistent with the historical cULus Listings that were evaluated to the requirements of UL 203A, Outline of Investigation for Sway Brace Devices for Fire Sprinkler System Piping, based upon a minimum safety factor of 1.5 in accordance with the earlier editions of NFPA 13. The load ratings based upon the 2016 or earlier editions of NFPA 13 should only be used where approved by the Authority Having Jurisdiction (AHJ).					
Previously Listed UL Loads					
Pipe Size	(200)	lbs.	kN	Wt. Each	
				lbs.	kg
8" MAX	(200)	*2015	*(8.96)	2.38	(1.08)
*Load ratings are based on a minimum safety factor of 1.5 in accordance with NFPA 13-2016 Section A.9.3.5.2.3.					

FM Maximum Design Load					
Beam Flange Thickness	Brace Angle From Vertical (Degrees)	X		Y	
		lbs.	kN	lbs.	kN
$\frac{3}{8}$ " MIN - $1\frac{1}{4}$ " MAX	30°-44°	1150	(5.11)	900	(4.00)
	45°-59°	1800	(8.00)	1050	(4.67)
	60°-74°	2230	(9.91)	1260	(5.60)
	75°-90°	2460	(10.94)	1410	(6.27)

When governed by NFPA13 2019 or later, multiply FM approved loads by 0.682.



PHD Manufacturing, Inc.

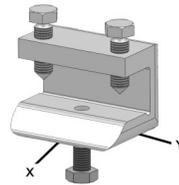
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FIG. 045 SWAY BRACE STRUCTURAL ADAPTER

- Pipe Braced:** 8" Pipe MAX
- Function:** Sway brace adapter used to attach a PHD Manufacturing sway brace assembly to a steel structural member of 3/8" minimum and 1 1/4" maximum thickness. To provide a point of connection when drilling or welding is not allowed or not practical. Sway brace assemblies are intended to be installed in accordance with NFPA 13 and the manufacturer's installation instructions.
- Approvals:** Underwriters Laboratories listed for US and Canada
 Factory Mutual approved
 Listed for use with NFPA fastener tables and PHD sway brace components only
- Material:** Ductile Iron
- Installation:** Place on structural member with the flange contacting the back of the jaw. Tighten set screws finger tight, then evenly tighten until hex heads break off. Attach PHD structural attachment to Fig. 045 with the supplied attachment bolt, ensuring that the attachment bolt head bottoms out securely. Please note that the maximum load will be limited by the PHD Manufacturing structural attachment utilized with this adapter.

UL Maximum Design Load	
Pipe Size	lbs.
8" MAX	1370

FM Maximum Design Load			
Beam Flange Thickness	Brace Angle From Vertical (Degrees)	X	Y
		lbs.	lbs.
3/8" Min. 1 1/4" Max.	30°-44°	1150	900
	45°-59°	1800	1050
	60°-74°	2230	1260
	75°-90°	2460	1410
When governed by NFPA13 2019 or later, multiply FM approved loads by 0.682.			



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