National Fire Equipment Ltd.

STRUCTURE ATTACHMENT FITTINGS

FUNCTION: Sway brace adapter used to attach a PHD Manufacturing sway brace assembly to a steel bar joist or structural member of 3/8" 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 3/8" thick MAX structural members
When attaching to a structure thicker than 3/8", please see PHD Manufacturing Fig. 045.

FINISH: Electro-galvanized

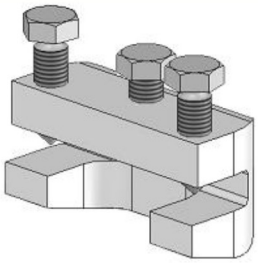
MATERIAL: Ductile Iron

INSTALL: Steel bar joist manufacturer's warranty requires attachment within 6"of chord panel point. 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. 035 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
Factory Mutual approved
Listed for use with NFPA fastener tables and PHD sway brace components only

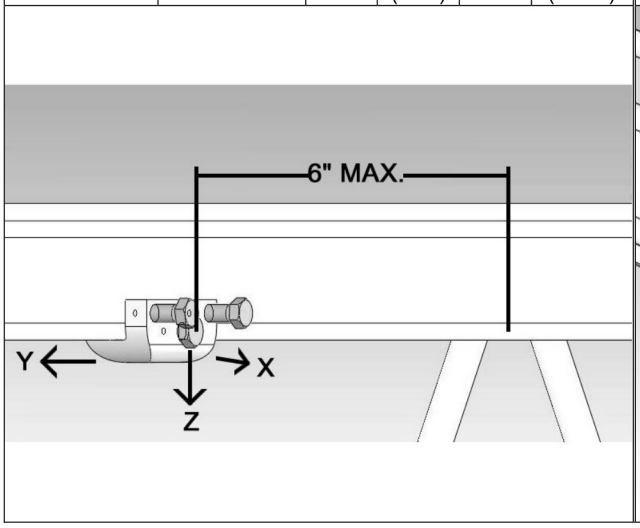
ORDERING: Specify figure number

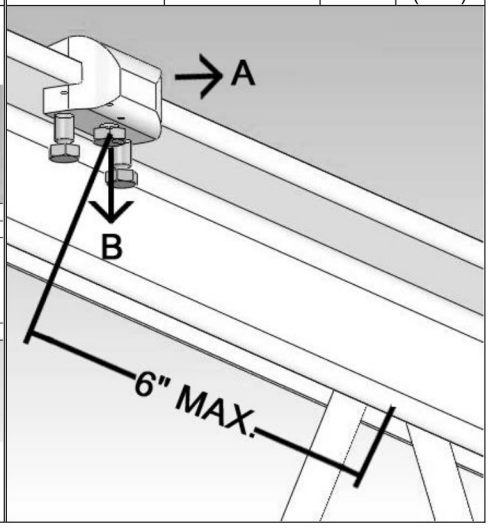
Fig. 035
SWAY BRACE BAR JOIST ADAPTER



UL Maximum Design Load					
				Weight Ea.	
Pipe Size		lbs.	kN	lbs.	kg
8" MAX	(200)	2015	(8.96)	2.38	(1.08)

FM Maximum Design Load									
Beam Flange Thickness	Brace Angle From Vertical (Degrees)	X-Z		Y-Z		Beam Flange Thickness	Brace Angle From Vertical (Degrees)	A-B	
		lbs.	kN	lbs.	kN			lbs.	kN
3/8" Max	30°-44°	1040	(4.62)	970	(4.31)	3/8" Max	30°-44°	1150	(5.11)
	45°-59°	1490	(6.62)	1370	(6.09)		45°-59°	1660	(7.38)
	60°-74°	1800	(8.00)	2060	(9.16)		60°-74°	1990	(8.85)
	75°-90°	2010	(8.94)	2300	(10.23)		75°-90°	2220	(9.87)





Unless otherwise specified, all dimensions on drawings and in charts are in inches and dimensions shown in parentheses are in millimeters.

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FIG. 035 SWAY BRACE BAR JOIST ADAPTER

Pipe Braced: 8” Pipe MAX

Function: Sway brace adapter used to attach a PHD Manufacturing sway brace assembly to a steel bar joist or structural member of 3/8” 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: Steel bar joist manufacturer's warranty requires attachment within 6"of chord panel point. 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. 035 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	2015

FM Maximum Design Load						
Beam Flange Thickness	Brace Angle From Vertical (Degrees)	X-Z lbs.	Y-Z lbs.	Beam Flange Thickness	Brace Angle From Vertical (Degrees)	A-B lbs.
3/8” Max	30°-44°	1040	970	3/8” Max	30°-44°	1150
	45°-59°	1490	1370		45°-59°	1660
	60°-74°	1800	2060		60°-74°	1990
	75°-90°	2010	2300		75°-90°	2220