

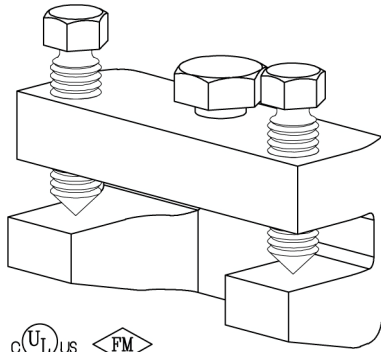


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SEISMIC BRACING

FIG. 035

SWAY BRACE BAR JOIST ADAPTER



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

Material: Ductile iron

Finish: Electro-galvanized

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.

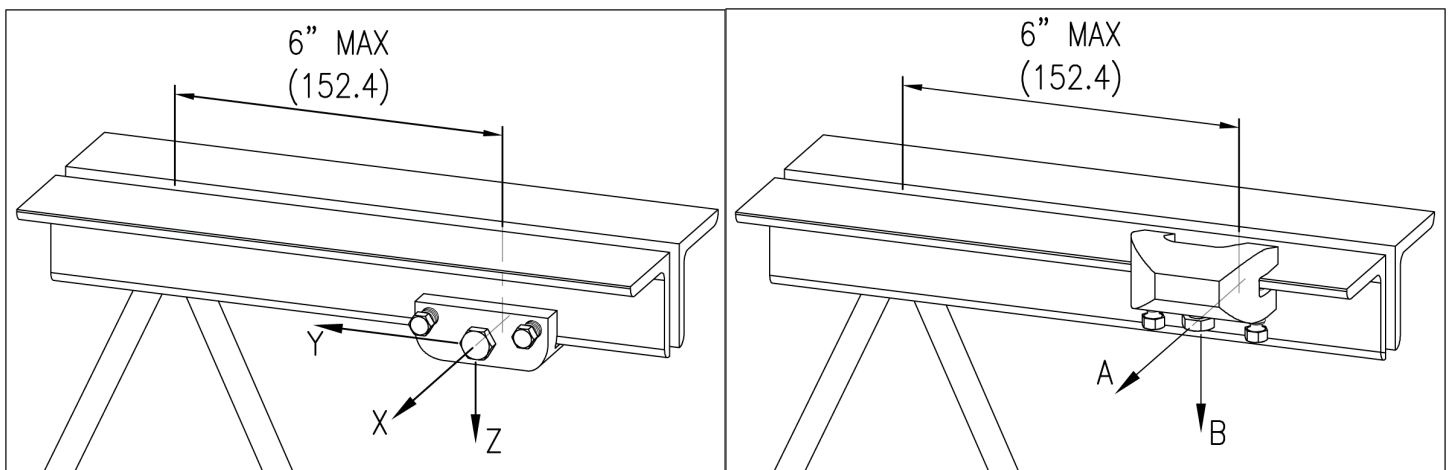
Approvals: Underwriters Laboratories listed for US and Canada and Factory Mutual approved. Listed for use with NFPA fastener tables and PHD sway brace components only.

Ordering: Specify figure number.

| UL Maximum Design Load | | | | | |
|------------------------|-------|------|--------|----------|--------|
| Pipe Size | | lbs. | kN | Wt. Each | |
| | | | | lbs. | kg |
| 8" MAX | (200) | 1370 | (6.09) | 2.38 | (1.08) |

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

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



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 | 1370 |

| FM Maximum Design Load | | | | | | |
|------------------------|-------------------------------------|------|------|-----------------------|-------------------------------------|------|
| Beam Flange Thickness | Brace Angle From Vertical (Degrees) | X-Z | | Beam Flange Thickness | Brace Angle From Vertical (Degrees) | A-B |
| | | lbs. | 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 |

6" MAX (152.4)

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

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