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Sway Bracing Calculations per 2010 NFPA 13

Project/Contractor Information	Seismic Brace Attachments
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Project: ABC Company
 Project Address: 1234 Main Street
 Project City/St: Brea, CA 93307
 Contractor: AFCON
 Contractor Address: 9600 Klingerman Street
 Contractor City/St: South El Monte, CA 91733

Structure Attachment Adapter:
 # 087 Adapter Stl Web Joist
 Note: Parallel to beam Listed load rating: 2,765 lb

Structure Attachment Fitting:
 #076 Universal Locking Attachment End
 Listed load rating: 2,765 lb Adj. load rating per 9.3.5.10.3: 1,955 lb

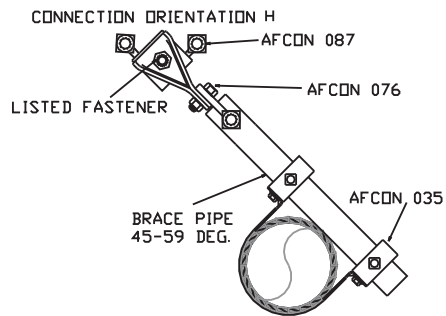
Brace Pipe Adaptor:
 # n/a
 Listed load rating: n/a Adj. load rating per 9.3.5.10.3: n/a

Sway Brace Fitting:
 # 035 Sway Brace (Model K)
 Listed load rating: 2,765 lb Adj. load rating per 9.3.5.10.3: 1,955 lb

Brace Pipe Information

Length of Brace: 3 ft 6 in
 Diameter of Brace: 1 in
 Type of Brace: Schedule 40
 Angle of Brace: 45° to 59°
 Least Radius of Gyration: 0.42
 L/R Value: 200
 Maximum Horizontal Load: 1,310 lb

Seismic Brace Assembly Detail



Brace identification no. 12A Calculated To: NFPA
 (to be used on plans)

Lateral Brace Longitudinal Brace 4-Way Brace

Fastener Information

NFPA 13 Fastener Listed Adapter Fasteners: n/a
 Structural Supporting Member: Web Beam
 Orientation of connecting surface: "H"
 Fastener Type: n/a
 Fastener Diameter: n/a
 Fastener Length (under head): n/a
 Maximum Load: n/a

Sprinkler System Load Calculation [Fpw=CpWp(default is 0.5Cp)] Ss .95 Cp 0.5

	Diameter	Type	Length (ft)	Total (ft)	Weight per ft	Cp	Total Weight
<input checked="" type="checkbox"/>	6 in	Schedule 10	40 ft	40.0 ft	23.03	0.5	460.60
<input type="checkbox"/>	2 in	Schedule 10	40 ft	40.0 ft	4.22	0.5	84.40
<input type="checkbox"/>	1-1/2 in	Schedule 10	20 ft	20.0 ft	3.04	0.5	30.40
<input type="checkbox"/>	1-1/4 in	Schedule 10	20 ft	20.0 ft	2.52	0.5	25.20
<input type="checkbox"/>	1 in	Schedule 40	40 ft	40.0 ft	2.05	0.5	41.00
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<input type="checkbox"/>							
					Total weight		641.60
Brace Connection					Fpw x 1.15		737.84