Typical Connection Details DETAIL 5A.1-1: TYPICAL FITTING CONNECTION TO STRUT 1/3" HHCS Bolt (per page 6c.1) torqued per table 5a.1-1 or HSSB Bolt (per page 6b.1) torqued until head breaks off Brace Fitting (See Note 2) (per Section 5c) 1/2" Channel Nut Pull-Out Slip (per page 6a.1) Resistance Load F_p Load 12ga. Channel Single or Welded Back-to-Back Solid or Pierced Perpendicular F_p Load (per Section 4) Brace Side 3" Min. End Distance (See Note 3) Perpendicular F_p Load 4 Opposite Brace **Table 5a.1-1** Max. **Maximum Horizontal** Installation Capacity F_p^{\vee} Force Bolt

Notes:

 Capacities listed in Table 5a.1-1 are for this connection only when attached to the open side of the channel. Fittings, Channel and other component capacities must also be considered.

(lbs) [ASD]

Pull-Out

2,810

2) The fitting may be oriented in a transverse or longitudinal (as shown) orientation. A typical transverse connection is shown on Detail 5b.2-3. A max of two fittings may also be stacked at this connection to accommodate braces in both directions.

Slip Resistance

1,370

3) For end distances less than 3", use the Wolf Washer per Page 5a.2.

Torque

(ft-lbs)

50 - 55

4) When used with P1001, P5501 or P5001 channel and a perpendicular load is applied on the opposite side of the channel from the brace. The total of the perpendicular loads at the Brace Side and Opposite Side must not exceed 1,035 lbs.



Size

1/2"

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Page:

Perpendicular 4

Opposite Brace

640

(lbs) [ASD]

Perpendicular

Brace Side

1,035

California SE No. 3930

5a.1