

FASA4 Foundation Anchor Strap Installation Instructions

1 Product Description:

1.1 The innovative product in this report is shown in **Figure 1**.

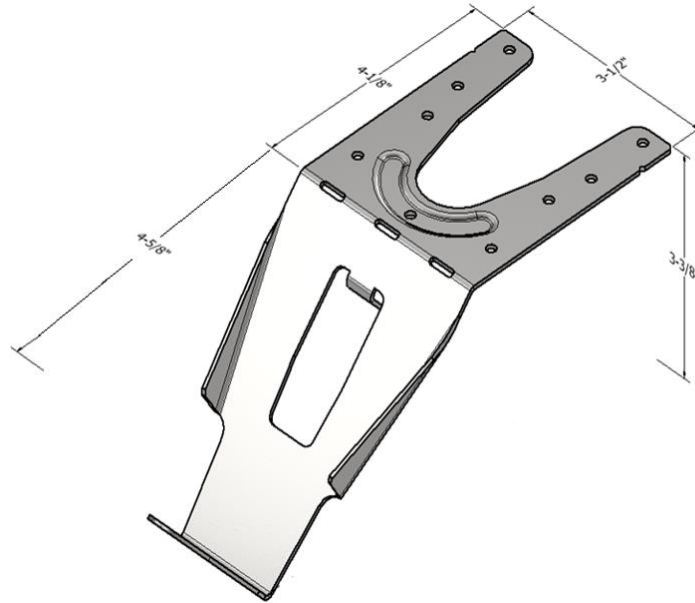


Figure 1. FASA4 Foundation Anchor Strap

1.2 FASA4 Foundation Anchor Straps are Grade 50 ($F_u = 70$ ksi, $F_y = 50$ ksi).

1.3 The following table shows allowable loads for the FASA4 Foundation Anchor Straps.

Table 1. FASA4 Allowable Tension and Shear Values (ASD) – Concrete and Wood

Part Number	Installation Type ⁵	Fasteners				Allowable Loads (lb) ^{1,3,4}		
		Type	Sill Plate ²		Stud	Uplift	F1 (Parallel to Wall)	F2 (Perpendicular to Wall) ⁶
			Narrow Face	Wide Face				
Wind and Seismic Design Category (SDC) A-B								
FASA4	Standard	10d x 1½" (0.148 x 1.50")	3	6	-	1,310	1620	1,250
	One Leg Up		3	3	3	1,050	1,260	1,135
Seismic Design Category (SDC) C-F								
FASA4	Standard	10d x 1½" (0.148 x 1.50")	3	6	-	1,150	1360	1,190
	One Leg Up		3	3	3	920	1,100	1,135

SI: 1 in = 25.4 mm, 1 lb = 4.45 N

- Allowable loads are provided for a load duration factor (C_D) of 1.6. No further increase is permitted.
- Foundation plates or sills shall be pressure-preservative treated Southern Pine (PPT-SP) and shall comply with IBC Section 2304.3.1 and IRC Section R403.1.6.
- Allowable loads are only applicable to uncracked concrete and are based on a minimum stem wall thickness of 6", minimum distance from the end of the concrete stem wall to the centerline of the FASA4 anchor of 4".
- Minimum compressive strength of concrete is 2,500 psi.
- Wood framing members (studs) with which the connectors are installed, "One Leg Up", shall have a published specific gravity (SG) of 0.55. For species with a published lower than 0.55, reduce the allowable load by the following:
- Specific Gravity Adjustment Factor = $[1 - (0.55 - G)]$, where G is the specific gravity of the wood species used. Specific Gravity Adjustment Factor shall not be greater than 1.0.

- 1.4 Installation shall comply with the approved construction documents, the manufacturer installation instructions, TER 0910-01 and the applicable building code.
- 1.5 In the event of a conflict between the manufacturer installation instructions and this report, the more restrictive shall govern.
- 1.6 A copy of the manufacturer published installation instructions shall be available at all times on the jobsite during installation.

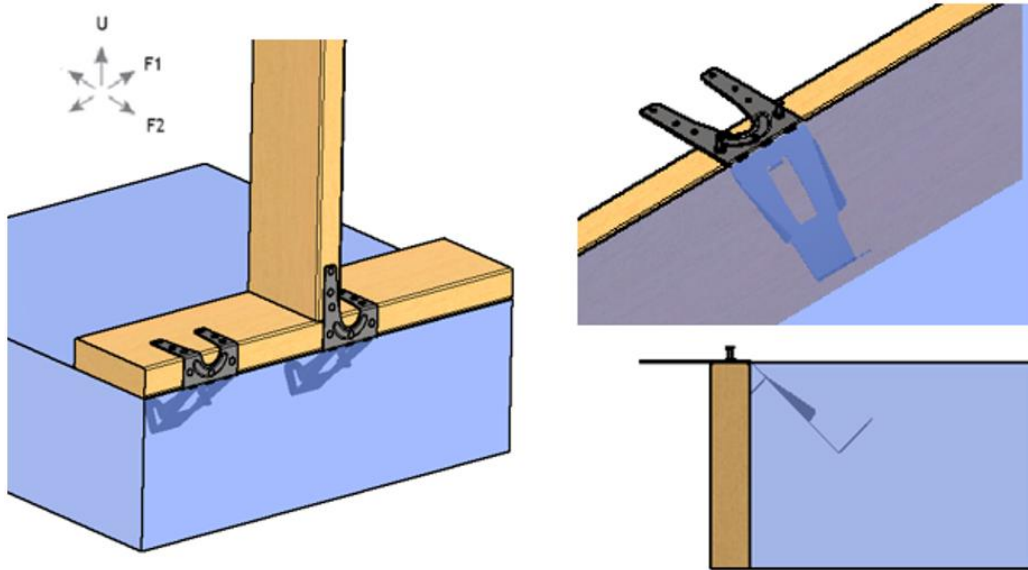


Figure 2. Installed FASA4 Foundation Anchors – Standard Installation