FOUNDATION STRAP-TIE HOLDOWNS (FSTHD)

PRODUCT FEATURES:

The FSTHD and FSTHDJ series are embedded foundation strap-tie holdowns engineered to anchor wood framing (studs or posts) securely to concrete foundations or slabs. These holdowns are typically used at the ends of shear walls or in other high-stress framing locations where resisting uplift forces is critical.

MATERIAL:

FSTHD8/8J – 14 ga
FSTHD10/10J, 14/14J – 12 ga

COATING:

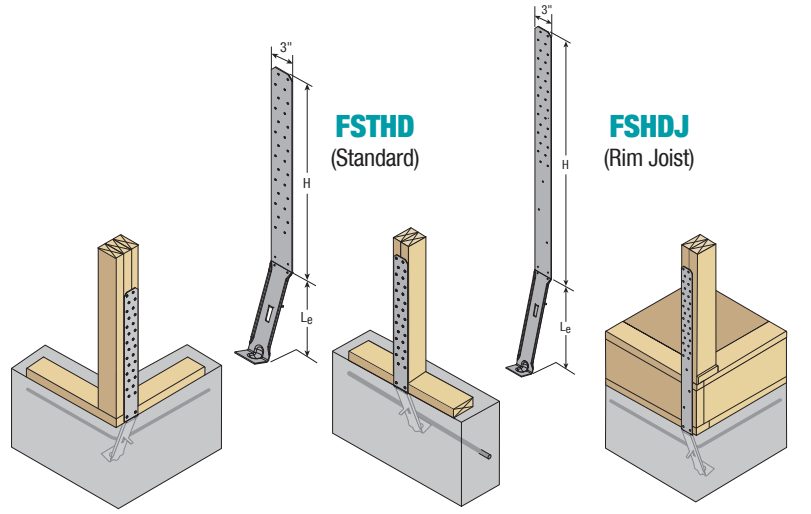
Galvanized (G185)

INSTALLATION:

- Use all specified fasteners in schedule to achieve values indicated.

CODE COMPLIANCE:

TER 0910-01; FL 3557



Standard Installation at Corner | Standard Installation at Midwall | Rim Joist Installation at Corner

ALLOWABLE LOADS FOR FOUNDATION STRAP-TIE HOLDOWNS (LB)[1,2,3,4,5]

Part No.	Embedment Length, L_e (in.)	Strap Length, H (in.)	Stud Fasteners		SP		DF-L		HF/SPF	
			Type	Qty	Corner[4]	Mid-Wall[5]	Corner[4]	Mid-Wall[5]	Corner[4]	Mid-Wall[5]
					1.6	1.6	1.6	1.6	1.6	1.6
FSTHD8	8	18-5/8	10d x 3-1/4" (0.148 x 3.25")	20	2,755	3,455	2,755	3,195	2,755	2,760
FSTHD8J		32-1/8								
FSTHD10	10	24-5/8		28	3,750	5,800	3,750	5,370	3,750	4,660
FSTHD10J		38-1/8								
FSTHD14	14	26-1/8		30	6,615	6,615	6,230	6,230	5,405	5,405
FSTHD14J		39-5/8								

NOTES:

1. Allowable loads are provided for a load duration factor (C_D) of 1.6. No further increase is permitted. Total deflection of connector assembly at highest allowable load: FSTHD8 = 0.072", FSTHD10 = 0.068", FSTHD14 = 0.111"
2. Minimum wood member size is 3" x 3-1/2".
3. Minimum compressive strength of concrete is 2,500 psi. Minimum of one (1) #4 rebar is required at 6" embedment and 3" edge distance.
4. For corner straps, minimum end distance is 1/2" and minimum center-to-center spacing is 3 times the embedment length.
5. For mid-wall straps, end distance is 1.5 times the embedment length.

PORCH POST BASE ANCHORS (PBA-P)

PRODUCT FEATURES:

Porch Post Base Anchors (PBA-P) are used to attach the base of a wood post to a concrete foundation. These anchors are designed to withstand vertical construction loads prior to pouring of concrete and to support permanent porch framing throughout all stages of construction.

MATERIAL:

PBA-P Strap & SO – 12 gs

COATING:

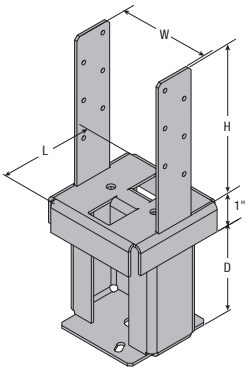
Galvanized (G185)

INSTALLATION:

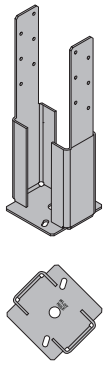
- Use all specified fasteners in schedule to achieve allowable load values.
- The designer or specifier shall check the requirements and capacity of wood post and concrete for resisting gravity and uplift loads.
- Nails (10d common) and concrete screws are NOT included.
- Clean surface, place Post Base Porch Strap in position and install the screws per manufacturer's installation procedures.
- Insert the stand-off plate over the strap and position the wood post on top.
- Attach Post Base Porch Strap to wood post using 10d common nails on both sides

CODE COMPLIANCE:

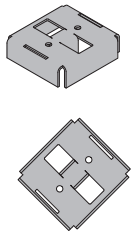
TER 0910-01; FL 3557



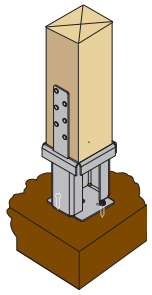
PBA44-4P/6P
PBA66-4P/6P



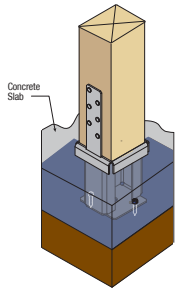
STRAP



STAND-OFF (SO)



Prior to Concrete Pour



Embedded in Concrete

ALLOWABLE LOADS FOR PORCH POST BASE ANCHORS, LB (PBA-P)[1,2,3]

Part No.	Strap Dimensions (in.)				Steel Thickness (Gauge)		Fasteners		SP (0.55) / DF-L (0.50)			
							Post		Prior to Concrete Pour		Embedded in Concrete	
									Bearing	Uplift	Bearing	Uplift
	Width	Length	Height	Depth	Strap	Stand-Off	Qty	Size	1.0	1.6	1.0	1.6
	W	L	H	D								
PBA44-4P	3-5/8	3-5/8	5-7/8	4	12	12	12	10d	7,900	440	7,900	2,700
PBA44-6P				6								
PBA66-4P	5-5/8	5-5/8	5-5/8	4	12	12	12	10d	12,775	440	12,775	2,700
PBA66-6P				6								

NOTES:

1. Use two (2) 1/4" x 1-1/2" concrete screws to install prior to concrete pour. Minimum allowable pullout is 220 lb per screw with minimum edge and spacing of 2-1/2".
2. Allowable load values provided are for wet service condition, no further reduction required.
3. Minimum concrete compressive strength shall be 2,500 psi. Concrete design shall be performed by others.