

ST SERIES CONCRETE-TO-WOOD FOUNDATION ANCHORS

Foundation Anchors - ST series:

Foundation anchors secure mudsills and framing to concrete block walls, stemwalls, or slab foundations. By replacing conventional anchor bolt fastening, foundation anchors can eliminate time-consuming plate drilling and problems associated with mislocated anchor bolts.

ST1-TZ

- For installation into concrete slab or poured stemwalls.
- For concrete/masonry installations, refer to USP's *ST Foundation Anchors Technical Bulletin*, USP186.

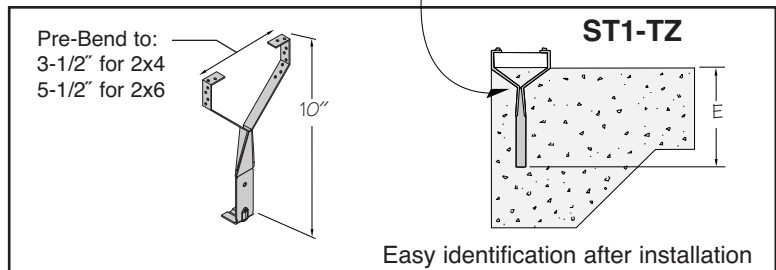
ST2-TZ

- For installation into concrete slab, poured stemwalls, or concrete/masonry. Do not use in red clay brick.

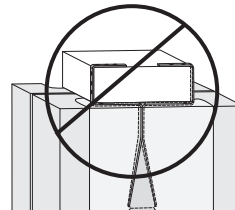
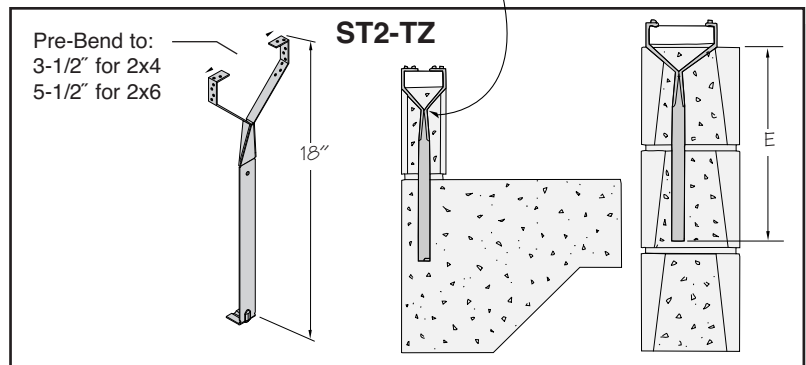
Installation:

- Spread sill flanges to mudsill width prior to insertion into wet concrete (minimum strength of 2,000 psi). Alternate installation is possible by inserting unbent flanges through 3/4" center hole predrilled in mudsill. Foundation anchors may also be attached to mudsill and then inserted into wet concrete. When installing *ST2-TZ* into concrete block, fill cells with grout with a minimum strength of 2,000 psi. Concrete block edges may need to be beveled to facilitate installation.
- *ST2-TZ* in masonry construction shall be installed in the core of the block and grouted in concrete grout designed for that purpose. In no case shall they be installed in a mortar joint.

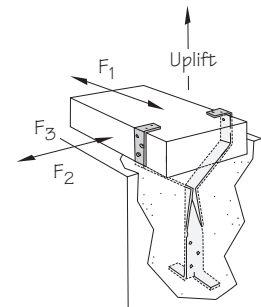
Juncture of straps must be embedded into the concrete
1/2 the width of the sill (i.e., 2x4: 1-3/4", 2x6: 2-3/4")



Juncture of straps must be embedded into the grout
1/2 the width of the sill (i.e., 2x4: 1-3/4", 2x6: 2-3/4")



DO NOT install ST1-TZ and ST2-TZ without pre-bending sill flanges in a "Y" configuration



Important! Check this table for spacing Guidelines!

Plate Size	USP Stock No.	Ref. No.	Steel Gauge	Fastener Schedule ²		Min. Embed. ⁴ (E)	Max. Spacing ³ (Feet)	Allowable Loads (Lbs.) ¹			
				Mudsill Top	Mudsill Side			F1	F2	F3	Uplift
				160%	160%			160%	160%		
2 x 4 - 6	ST1-TZ	MAB15Z	18	(4) 8d x 1-1/2	(4) 8d x 1-1/2	8-1/2	*5-1/2	565	745	745	825
2 x 4 - 6	ST2-TZ	MAB23Z	18	(4) 8d x 1-1/2	(4) 8d x 1-1/2	16-1/2	*5-1/2	565	745	745	825

1) Allowable loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.

2) 8d x 1-1/2 nails are 11 gauge (0.131 diameter) by 1-1/2 long.

3) Anchor spacing and design loads assume treated Douglas Fir-Larch with Fc perpendicular @ 625 psi; replaces code prescribed 1/2" anchor bolt with standard washer spaced 6 ft. on center.

4) If installed in the alternate configuration, the ST1-TZ shall be embedded 11" and ST2-TZ 16".

*When a 2 x 8 mudsill is used for ST1-TZ or ST2-TZ, maximum spacing is 3 feet unless alternate installation is used.

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