

TECHNICAL BULLETIN

SIMPSON

Strong-Tie

PA FOUNDATION STRAPS FOR UPLIFT RESISTANCE

PA Foundation Straps provide uplift resistance and anchor wood framing to a footing in pier and curtain wall construction in high wind areas.

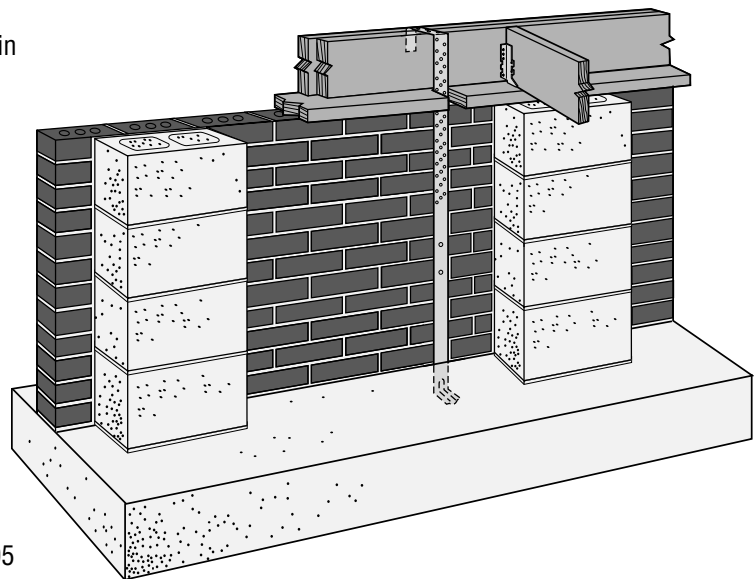
FEATURES:

- PA foundation straps are available in lengths of 51 and 70 inches.
- Uplift loads up to 2,940 pounds, depending on the number of nails used to attach to girder.
- For additional length, an MST strap can be attached using 1/2" bolts as specified below.

MATERIAL: 12 gauge x 2 1/16".

FINISH: Galvanized.

CODES: PA51, PA68: ICC-ES NER469
MST27, MST37, MST48: ICC-ES ESR-2105



INSTALLATION:

- Install 16d or 10d common nails as specified into girder.
- Girder must be at least 1 1/2" actual thickness. Clinch any nails that penetrate completely through girder.
- Girder must be Southern Pine or Douglas Fir-Larch lumber.
- Use 10d common nails if wrapping strap around girder less than 3 1/2" in width and nailing both sides.
- Embed embossed portion of strap a minimum of 4 inches into the footing.
- Footing must be wide enough to provide a minimum of 5 inches of side cover from strap to edge of footing.
- Foundation strap must be installed straight and tight.
- If extending the length by attaching an MST strap, use two 1/2" bolts through existing holes.
- Bolts must be minimum ASTM A307 Grade A bolt, with washers and nuts.

Model No.	Fasteners				Allowable Loads	
	Quantity	Type	Quantity	Type	(133)	(160)
PA51 & PA68	—	—	9	10d	1650	1900
	—	—	10	10d	1835	2110
	9	16d	11	10d	1915	2220
	10	16d	12	10d	2130	2465
	11	16d	13	10d	2345	2710
Extensions	12	16d	14	10d	2555	2940
MST27	13	16d	15	10d	2750	2940
MST37	14	16d	16	10d	2935	2940
MST48	15	16d	17	10d	2940	2940

1. Loads include a 33% or 60% load duration increase on the fasteners for seismic or wind loading, but **DO NOT** include a 33% stress increase on the steel capacity.

This technical bulletin is effective until ~~June 30, 2010~~, and reflects information available as of April 1, 2008. This information is updated periodically and should not be relied upon after ~~June 30, 2010~~; contact Simpson Strong-Tie for current information and limited warranty or see www.strongtie.com.

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