PA

Strap-Tie Holdown

The PA strap-tie holdown is a wood-to-concrete connector that connects studs to the foundation to satisfy engineering and code requirements.

Material: 12 gauge

Finish: Galvanized or ZMAX® coating

Installation:

- Use all specified fasteners; see General Notes
- For additional length, an MST strap can be attached using ½" bolts through existing holes
- Visit **strongtie.com** for additional information

Codes: See p. 11 for Code Reference Key Chart

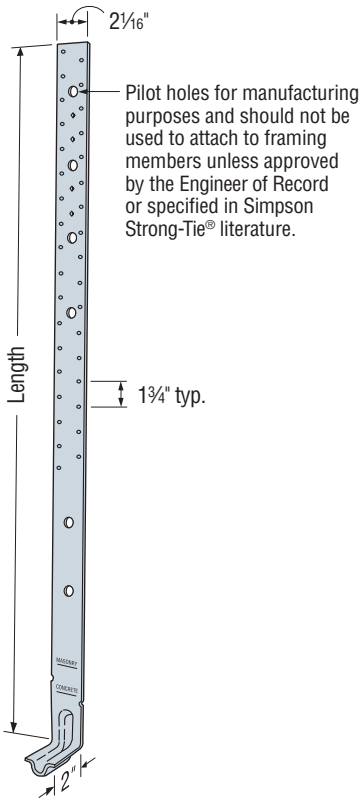
These products are available with additional corrosion protection. For more information, see p. 14.

SD Many of these products are approved for installation with Strong-Drive® SD Connector screws. See pp. 348–352 for more information.

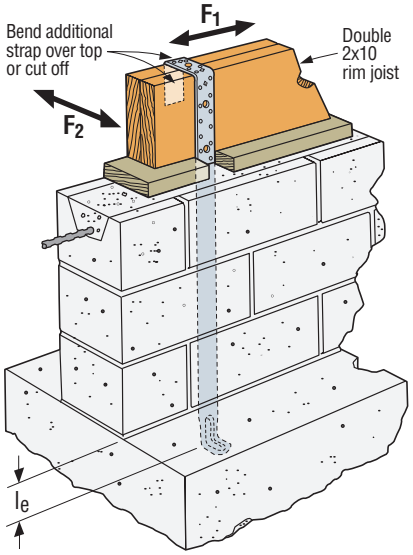
Wind and SDC A&B – Allowable Tension Loads							
Model No.	Strap Length, L (in.)	l_e (in.)	Uncracked Concrete		Cracked Concrete		Code Ref.
			Required Nails (in.)	Tension	Required Nails (in.)	Tension	
PA51	51	4	(10) 0.148 x 3	2,025	(10) 0.148 x 3	2,025	IBC, FL
PA68	70	4	(10) 0.148 x 3	2,025	(10) 0.148 x 3	2,025	

SDC C–F – Allowable Tension Loads							
Model No.	Strap Length, L (in.)	l_e (in.)	Uncracked Concrete		Cracked Concrete		Code Ref.
			Required Nails (in.)	Tension	Required Nails (in.)	Tension	
PA51	51	4	(10) 0.148 x 3	2,025	(10) 0.148 x 3	1,840	IBC, FL
PA68	70	4	(10) 0.148 x 3	2,025	(10) 0.148 x 3	1,840	

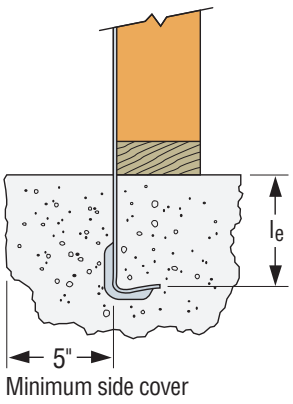
1. Allowable loads have been increased for wind or earthquake loading with no further increase allowed. Reduce where other loads govern.
2. Concrete shall have a minimum compressive strength of f'_c = 2,500 psi.
3. Masonry applications require grout-filled CMU with minimum compressive strength of f'_m = 1,500 psi.
4. Deflection at highest allowable load is as follows: PA51 and PA68 = 0.10".
5. PA allowable lateral loads are F_1 = 795 lb. and F_2 = 280 lb.
6. #9 x 1½" Strong-Drive® SD Connector screws (SD9) may be substituted for table fasteners with no load reduction.
7. **Fasteners:** Nail dimensions are listed diameter by length. See pp. 21–22 for fastener information.



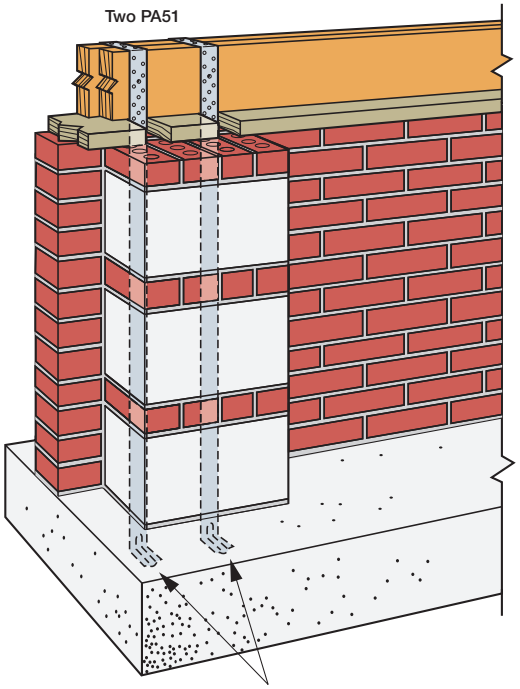
PA51
(PA68 similar)



Typical PA51 Installation
(PA68 similar)



Typical PA Connecting Stud to Foundation



Minimum Two Straps per Pier
Minimum 4" Embedment into Footing
Per ICC 600-2020, Section 505.2.2.2., the assembly shown above is limited to 140 mph, SDC A and B, and one- and two-story buildings.

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