

PAS-Purlin Anchor Straps Installation Instructions

- PAS18-3Z, PAS23-3Z, PAS28-3Z, PAS35-3Z and PAS51-3Z are embedded anchors designed to connect roof purlins to a concrete or CMU wall as a purlin anchor or to connect studs to the foundation as a strap-tie hold down. PAS series anchor straps (12-gauge) embedded anchors are manufactured from ASTM A653 Grade 50, Class 3 Structural Steel ($F_u = 70$ ksi, $F_y = 50$ ksi). Galvanized coating complies with ASTM A653 Type G185. See Figure 1 and Table 1 for fastening schedules and design values.

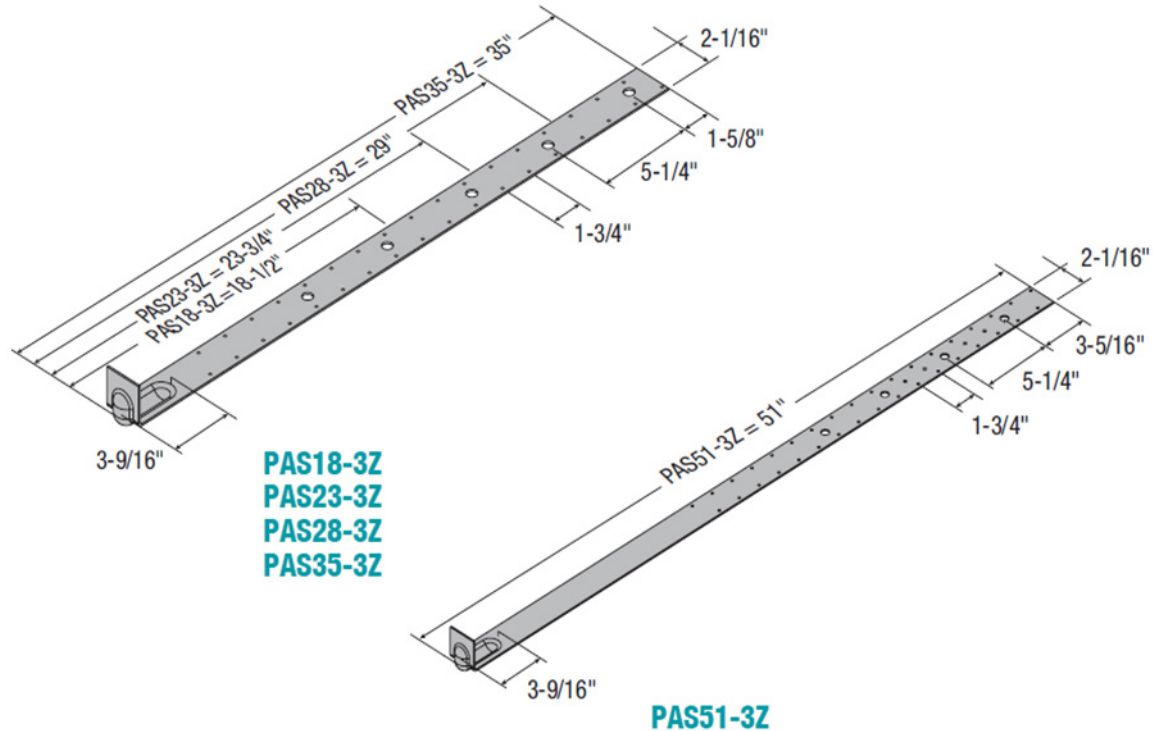


Figure 1. PAS Purlin Anchor Straps

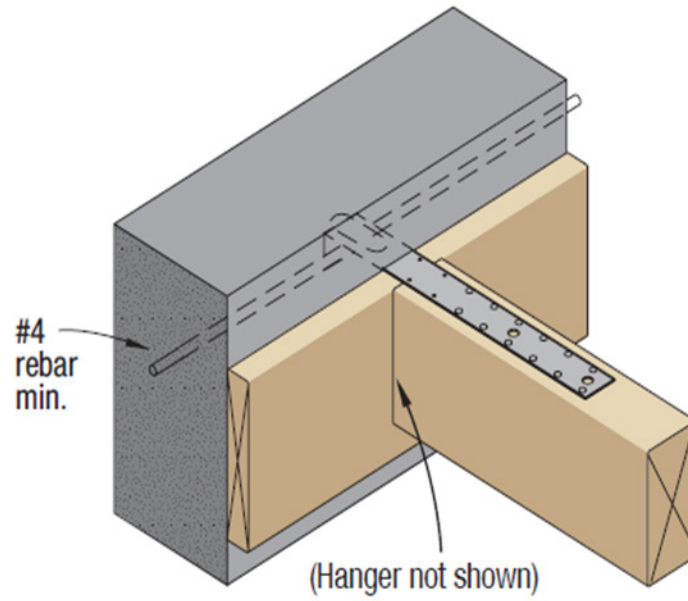
Table 1. Tension Design Values for PAS Anchors

Part		Embedment Length, L_e (in.)		Stud Fasteners		Allowable Loads (lb) ^{1,2}			
						SP/DF-L		HF/SPF	
No.	Length, L (in.)	Concrete ³	CMU ⁴	Type	Qty	Floor	Uplift	Floor	Roof
PAS18-3Z	18 1/2	4	6	10d Common (0.148 x 3")	12	1,685	2,700	1,465	2,340
PAS23-3Z	23 3/4				16	2,250	3,600	1,950	3,120
PAS28-3Z	29				16	2,250	3,600	1,950	3,120
PAS35-3Z	35				16	2,250	3,600	1,950	3,120
PAS51-3Z	51				10	1,405	2,250	1,220	1,950

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

- Refer also to **Appendix B. General Notes for Tables.**
- Minimum wood member size is 3" x 3 1/2".
- Minimum compressive strength of concrete is 3,000 psi.
- Minimum compressive strength of grout-filled CMU is 2,000 psi.
- Total deflection of connector assembly at highest allowable load is 0.031".

2. Allowable compression and tension design values for PAS connectors are shown in Table 1. An illustration of an example of an installed PAS Connector is shown in Figure 2.



Purlin-to-Wall Attachment

Figure 2. Installed PAS Connector