

MiTek Stock No.	Ref. No.	Ga.	Dimensions (in)				Concrete Stemwall Minimum Thickness (in)	Fastener Schedule ¹		DF/SP Allowable Tension Loads (Lbs.) ⁵			
			W	L	l _E	D		Qty ⁶	Type ¹⁰	Uncracked		Cracked	
										Corner ²	Midwall ^{3,4}	Corner ²	Midwall ^{3,4}
Wind and ASCE Seismic Design A & B													
HPAHD22	--	10	2-1/16	24-3/4	9-1/2	4-1/8	6	23	16d	3110	3265	2175	2285
PAHD42	--	12	2-1/16	16-5/8	8	5-3/4	6	15	16d	1155	2465	810	1725
ASCE Seismic Design C-F													
MiTek Stock No.	Ref. No.	Ga.	Dimensions (in)				Concrete Stemwall Minimum Thickness (in)	Fastener Schedule ¹		DF/SP Allowable Tension Loads (Lbs.) ⁵			
			W	L	l _E	D		Qty ⁶	Type ¹⁰	Uncracked		Cracked	
										Corner ²	Midwall ^{3,4}	Corner ²	Midwall ^{3,4}
HPAHD22	--	10	2-1/16	24-3/4	9-1/2	4-1/8	6	23	16d	2280	2855	1905	2000
PAHD42	--	12	2-1/16	16-5/8	8	5-3/4	6	15	16d	1010	1850	705	1510

1) Predrilled holes are not required.

2) Corner strap location implies that the distance from the corner of the wall to the edge of the strap is no less than 1/2".

3) Midwall strap location implies that the minimum distance from the corner of the wall to the centerline of the strap is no less than 1.5 times the embedment depth (l_E).

4) For edge distances between 1/2" and 1.5 x l_E calculate loads using straight line interpolation.

5) Minimum anchor spacing for full capacity is 2 x l_E. For spacing less than that reduce capacity proportionally.

6) The strap should be fastened with nails starting from lowest pair of nail holes and working up towards the top of the strap. In many cases, not all nail holes are needed to be filled.

7) Minimum concrete strength f'c = 2,500 psi.

8) Minimum 1-#4 rebar shall be installed in the shear cone.

9) Deflection at highest allowable loads for installation over wood double studs are as follows:

HPAHD22 = 0.118", PAHD42 = 0.095".

10) **NAILS:** 16d nails are 0.162" dia. x 3-1/2" long.