

MiTek Stock No.	Ref. No.	Ga.	Dimensions (in)					Concrete Stemwall Minimum Thickness (in)	Fastener Schedule ^{1,12}		Allowable Tension Loads (Lbs.) ^{6,7}				
			W	L	l _E	D	CS		Qty ⁸	Type	Uncracked		Cracked		
											Corner ³	Midwall ^{4,5}	Corner ³	Midwall ^{4,5}	
Wind and SDC A & B - Allowable Tension Loads (Lbs.)															
LSTAD8	LSTHD8	14	3	21-5/8	8	5	4-5/8	6	20	16d Sinker	2280	2950	1820	2950	
LSTAD8RJ	LSTHD8RJ			35-1/8			18-1/8								
STAD8	--	12	3	21-5/8	8	5	4-5/8	6	22	16d Sinker	2265	3675	1905	3175	
STAD8RJ	--			35-1/8			18-1/8								
STAD10	STHD10	12	3	21-5/8	10	5	1-5/8	6	28	16d Sinker	3135	4675	2540	4480	
STAD10RJ	STHD10RJ			36			16-1/8								
STAD14	STHD14	12	3	32-1/8	14	5	4-5/8	6	30	16d Sinker	4745	5010	4745	5010	
STAD14RJ	STHD14RJ			39-5/8			12-1/8								

SDC C thru F - Allowable Tension Loads (Lbs.)

MiTek Stock No.	Ref. No.	Ga.	Dimensions (in)					Concrete Stemwall Minimum Thickness (in)	Fastener Schedule ^{1,12}		Allowable Tension Loads (Lbs.) ^{6,7}			
			W	L	l _E	D	CS		Qty ⁸	Type	Uncracked		Cracked	
											Corner ³	Midwall ^{4,5}	Corner ³	Midwall ^{4,5}
LSTAD8	LSTHD8	14	3	21-5/8	8	5	4-5/8	6	20	16d Sinker	1995	3125	1595	2735
LSTAD8RJ	LSTHD8RJ			35-1/8			18-1/8							
STAD8	--	12	3	21-5/8	8	5	4-5/8	6	18	16d Sinker	1985	2945	1665	2780
STAD8RJ	--			35-1/8			18-1/8							
STAD10	STHD10	12	3	21-5/8	10	5	1-5/8	6	24	16d Sinker	2740	4275	2220	3920
STAD10RJ	STHD10RJ			36			16-1/8							
STAD14	STHD14	12	3	32-1/8	14	5	4-5/8	6	24	16d Sinker	3880	4185	3880	4185
STAD14RJ	STHD14RJ			39-5/8			12-1/8							

1) Predrilled holes are not required.

2) Wood thickness shall be no less than 3" (2 - 2x members).

3) 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".

4) 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).

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

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

7) Allowable tension loads are for Doug-Fir, Southern Pine, Spruce-Pine-Fir and Hem Fir.

8) 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.

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

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

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

LSTAD8 = 0.025", STAD8 = 0.045", STAD10 = 0.051", STAD14 = 0.099".

LSTAD8RJ = 0.032", STAD8RJ = 0.050", STAD10RJ = 0.058", STAD14RJ = 0.103".

12) **NAILS:** 16d sinkers are 0.148" dia. x 3-1/4" long. 10d common (0.148" dia. x 3" long) nails may be substituted with no load reduction.