

Stud to Sill Plate Connections for High Wind Resistance

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Model No.	Qty Req'd	Fasteners (Total)		DF/SP Allowable Loads		SPF Allowable Loads	
		Stud	Plate	(133)	(140)	(133)	(140)
H2	1	15-10dx1 1/2	4-10dx1 1/2	910	910	910	910
H2SA	1	15-10dx1 1/2	4-10dx1 1/2	910	910	910	910
H2.5	1	15-8d	4-8d	400	400	315	315
H2.5A	1	15-8d	4-8d	390	390	315	315
H3	1	4-10dx1 1/2	1-10dx1 1/2	420	420	325	325
H3A	1	4-8d	4-8d	455	455	320	320
H3.5	1	15-10d	4-10d	585	585	535	535
H3.5A	1	15-10d	4-10d	585	585	535	535
H4	1	8-10dx1 1/2	2-10dx1 1/2	660	660	445	445
H4A	1	8-8d	2-8d	720	720	470	470
H2.5	2	10-8d	2-8d	600	600	630	630
SP4	1	6-10dx1 1/2	N/R	735	885	690	760
H2	2	8-8d	2-8d	910	910	840	840
SPH4	1	10-10dx1 1/2	N/R	1240	1240	1065	1065

- N/R - Not required.
- SPF loads reflect attachment to SPF stud and sill.
- Main load for SPH4 in Southern Pine is 1400 lbs.
- SP1, SP5 drive one stud nail at an angle through the stud into the plate to achieve table load.
- Refer to page 4 for installation details of two connectors on a single stud.

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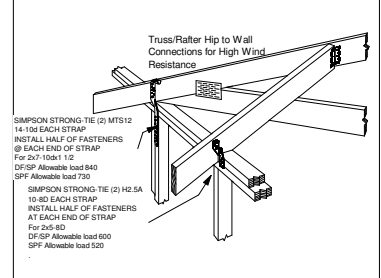
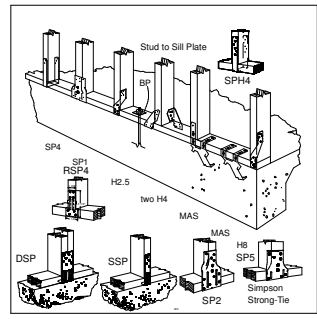
Available with additional corrosion protection. Check with factory.

Model No.	W	L	Studs	Fasteners		Avg. Uplift	Allowable Uplift Loads (133/160)			Code Ref.
				Double Top Plate	Single Sill Plate		DF/SP	DF/SP	SPF	
SSP	1 1/2	0 7/8	4-10dx1 1/2	3-10dx1 1/2	1-10dx1 1/2	1107	365	—	—	125
							420	325	—	
DSP	2 1/4	0 7/8	8-10dx1 1/2	2-10dx1 1/2	2-10dx1 1/2	2117	775	455	420	125
							825	—	—	

- Allowable loads have been increased 33% and 60% for earthquakes or wind loading; no further increase allowed.
- When cross-grain bending or cross-grain lamination cannot be avoided, mechanical reinforcement to resist such forces should be considered.

Model No.	Dimensions		Plate Width	Stud	Fasteners	Avg. Uplift	Allowable Uplift Loads			Code Ref.	
	W	L					DF/SP	DF/SP	SPF		
SP1	3 1/2	8 1/2	2x	—	6-10d	4-10d	1060	585	535	6, 121	
SP2	3 1/2	9 1/2	2x	—	6-10d	6-10d	1000	1065	605	106	
SP3	4 1/2	6 1/2	3x	—	6-10d	6-10d	3467	890	1065	605	106
SP4	3 1/2	7 1/2	2x	4x	6-10dx1 1/2	—	2917	735	885	630	7, 121
SP5	4 1/2	8 1/2	2x	—	6-10d	4-10d	1950	1065	605	106	106
SP6	5 1/2	7 1/2	2x	6x	6-10dx1 1/2	—	2917	735	885	630	7, 121
SP8	7 1/2	8 1/2	2x	8x	6-10dx1 1/2	—	2917	735	885	630	7, 121
SPH4	3 1/2	9 1/2	2x	4x	10-10dx1 1/2	—	3950	1240	1240	1065	1065
SPH6	5 1/2	9 1/2	2x	6x	10-10dx1 1/2	—	4470	1360	1360	1170	1170
SPH8	7 1/2	9 1/2	2x	8x	10-10dx1 1/2	—	3950	1240	1240	1065	1065
SPH8	7 1/2	8 1/2	2x	8x	10-10dx1 1/2	—	3950	1240	1240	1065	1065
SPH11	2 1/2	4 1/2	2x	—	4-8dx1 1/2	4-8dx1 1/2	1445	315	285	285	6, 11, 99
SPH12	2 1/2	4 1/2	2x	—	4-8dx1 1/2	4-8dx1 1/2	1445	260	450	370	121

- SP1, 2, 3 and SP5 drive one stud nail at an angle through the stud into the plate to achieve table load (see illustration).
- Allowable loads have been increased 33% and 60% for earthquakes or wind loading; no further increase allowed. Reduce when other loads govern.
- SP6 use installation details (1) and (2) for reference.
- SPH4 F2 to 280 for installation (1) and 305 for installation (2).
- F1 load is 110 lbs for both installations.
- Mainstem load for SPH in Southern Yellow Pine is 1400 lbs.
- When cross-grain bending or cross-grain lamination cannot be avoided, mechanical reinforcement to resist such forces should be considered.
- For retrofit application see T-STRAP.



REVISIONS:	BY

CONNECTORS

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SHEET NO. _____