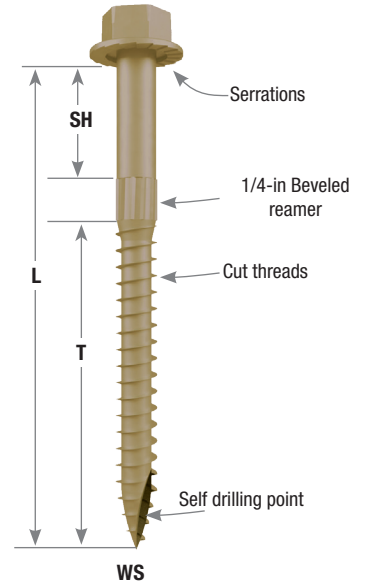




Joining 2, 3, or 4 Ply LVL, LSL or PSL Members

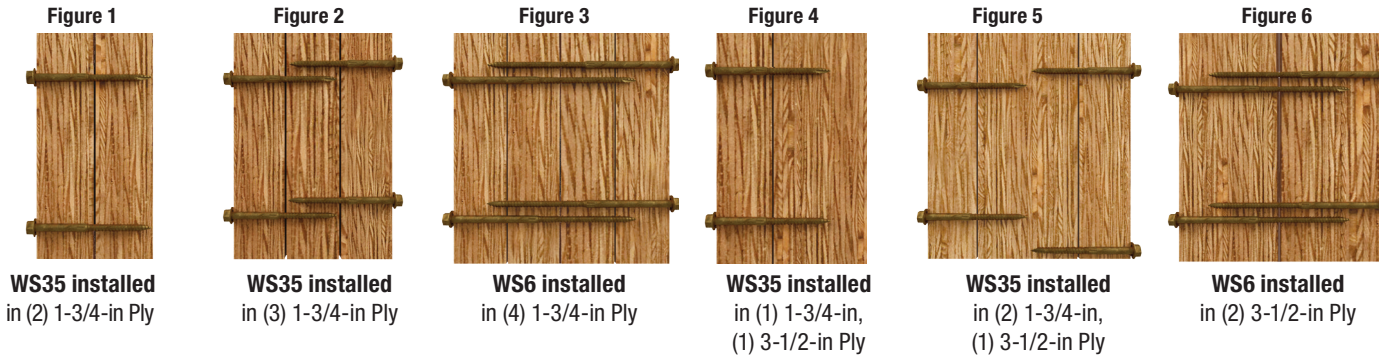
Installation Notes:

- For 2 ply members, wood screws shall be installed with the screw heads in the loaded ply.
- For 3 or 4 ply members, wood screws shall be installed in both outer plies.
- Designer shall specify all wood screws locations.
- Increase edge and end distances if wood splitting occurs.
- Stagger all screws installed into the opposite face.
- A minimum of 2 rows of screws shall be used for all members with H = 5-1/2-inches and larger.

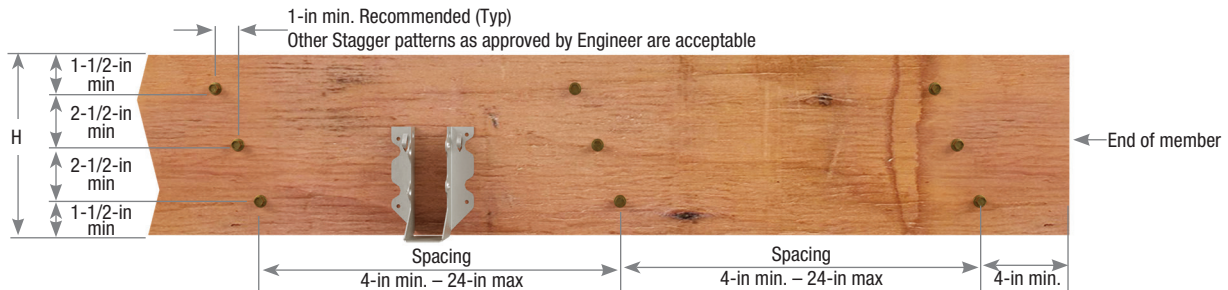


Size (in)	USP Stock No.	Dimensions (in)			Multiple Members Installation Figure ^{3,7,9,10}	Maximum Factored Uniform Loads that can be applied to either outside member ^{1,2,3,4,5,6}											
		L	SH	T		Wood Screw Spacing											
						12-in O.C.		18-in O.C.		24-in O.C.		12-in O.C.		18-in O.C.		24-in O.C.	
		2 Rows		3 Rows		2 Rows		3 Rows		2 Rows		3 Rows					
		Lbs/ft	kN/m	Lbs/ft	kN/m	Lbs/ft	kN/m	Lbs/ft	kN/m	Lbs/ft	kN/m	Lbs/ft	kN/m				
1/4 x 3-1/2	WS35	3-1/2	3/4	2-1/2	1	1845	26.93	2765	40.35	1230	17.95	1845	26.93	920	13.43	1385	20.21
					2	1385	20.21	2075	30.28	920	13.43	1385	20.21	690	10.07	1035	15.11
					4	1385	20.21	2075	30.28	920	13.43	1385	20.21	690	10.07	1035	15.11
					5	1230	17.95	1845	26.93	820	11.97	1230	17.95	615	8.98	920	13.43
1/4 x 6	WS6 ⁸	6	1-3/4	4	3	1560	22.77	2340	34.15	1040	15.18	1560	22.77	780	11.38	1170	17.08
					6	5470	79.83	8210	119.82	3650	53.27	5470	79.83	2735	39.92	4105	59.91

- 1) Factored Resistance values determined in accordance with CSA 086-14 Clause 12.11.
- 2) Loads are based on SCL with an equivalent S.G. = 0.50 and a side member thickness of 1-3/4", except for Figure 6 installation with a side member thickness of 3-1/2".
- 3) Load values depicted assume that the uniform load is applied to the most narrow outside ply only.
- 4) Except for Figure 6 installation, load values neglect any contribution of screws installed to opposite side, even if they extend significantly into the loaded ply.
- 5) Loads are for normal (100%) duration of load, and may be increased in accordance with the code.
- 6) Uniform loads in table represent the capacity of the fasteners. The capacity of the LVL or PSL beam may be less and should be checked by a qualified designer or with the manufacturer's literature.
- 7) A qualified designer shall ensure the adequacy of a 7" wide beam to resist the applied load on one edge; otherwise, the loads shall be uniformly distributed across the width or applied equally on both sides.
- 8) Wood screws longer than 3-1/2" are not recommended for use with Parallam® PSL or TimberStrand® LSL.
- 9) For Figure 1: The head of the wood screw is on the same side as the loaded ply.
- 10) For Figures 2, 3, 5, and 6: Stagger the screws on opposite face by half minimum spacing requirements.



Recommended Row Guidelines



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