

# MULTI-PLY LVL

Engineered Wood & Structural Composite Lumber Connectors

## SIMPSON STRONG-TIE® STRONG-DRIVE® SCREWS

### INSTALLATION

- Hex washer head allows for easy driving.
- Built-in reamer and the **4CUT™ tip** means no pre-drilling required.
- See illustrations below for SDS positioning on different assemblies.
- Install with high-torque, low speed drill (5 amp+).
- Do not over-drive the SDS screws.

### DESIGN

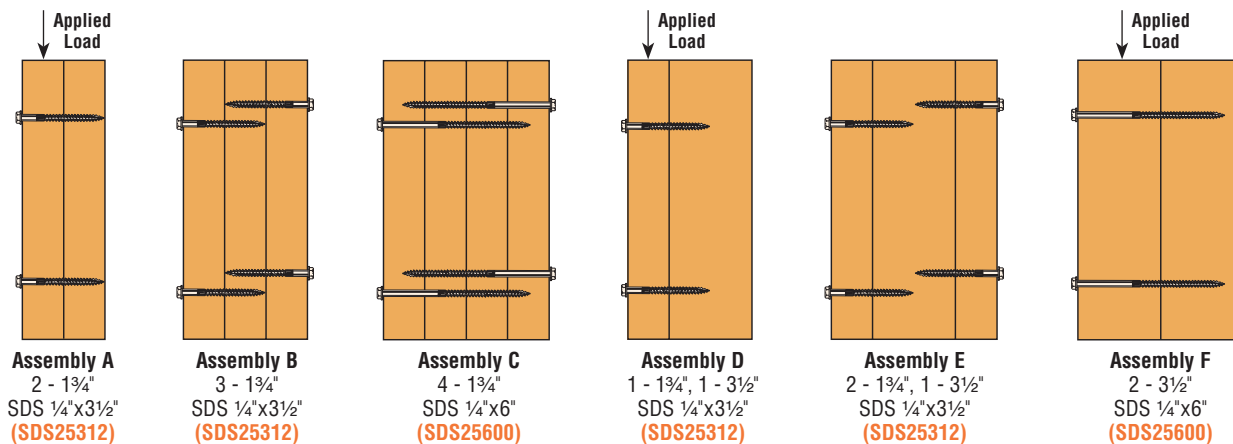
- This document uses **LVL manufactured with Douglas Fir-Larch or Southern Pine** veneers values (G = 0.5). Verify with LVL manufacturer specifications.
- Uniform loads in the table below represent the capacity of the fasteners. The capacity of the LVL beam may be less and should be checked by a qualified designer or with the manufacturer's literature.
- The designer shall specify the location of all screws (*stagger screws on opposite faces*). Minimum recommended spacing—Wide Face: end distance 4", edge distance 1½", spacing parallel to grain 4", spacing perpendicular to grain 2".

Model No.	Factored Resistance	
	LVL (G = 0.50)	
	(K <sub>D</sub> =1.00)	(K <sub>D</sub> =1.15)
	lbs	lbs
SDS25312	305	350
	1.36	1.56
SDS25600	390	450
	1.74	2.00

1. Values shown assume a side member thickness of 1¾". For 6" screws with 3½" thick side members or where the shear plane falls in the threads use the values for the 3½" screw.

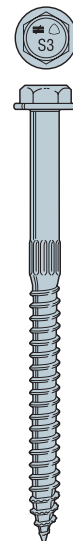
## LAMINATED VENEER LUMBER (LVL)

Drawings of Assemblies A to F (below) show Laminated Veneer Lumber (LVL)



Screws on "backside" of members shall be staggered from "frontside" screws by ½ the required spacing (*assemblies B, C, E & F*)

MAXIMUM FACTORED UNIFORM LOAD THAT CAN BE APPLIED TO EITHER OUTSIDE MEMBER							
Multiple Members		SDS Screws, 12" o/c		SDS Screws, 16" o/c		SDS Screws, 24" o/c	
Assembly	Components	2 Rows	3 Rows	2 Rows	3 Rows	2 Rows	3 Rows
		plf	plf	plf	plf	plf	plf
		kN/m	kN/m	kN/m	kN/m	kN/m	kN/m
A	2 pieces (all 1¾")	1220	1830	915	1375	610	915
		17.82	26.73	13.37	20.09	8.91	13.37
B	3 pieces (all 1¾")	915	1375	685	1030	460	685
		13.37	20.09	10.01	15.05	6.72	10.01
C	4 pieces (all 1¾")	1040	1560	780	1170	520	780
		15.19	22.79	11.40	17.09	7.60	11.40
D	2 pieces (1¾ - 3½")	915	1375	685	1030	460	685
		13.37	20.09	10.01	15.05	6.72	10.01
E	3 pieces (1¾ - 3½ - 1¾")	815	1220	610	915	405	610
		11.91	17.82	8.91	13.37	5.92	8.91
F	2 pieces (3½ - 3½")	1220	1830	915	1375	610	915
		17.82	26.73	13.37	20.09	8.91	13.37



Simpson Strong-Tie Strong-Drive Screw

1. If 7" wide beams are not equally loaded on each side, the plf load from the lesser side should be at least 25% of the opposite side.
2. Quantity and spacing of screws in table are for each screw head side of the assembly as shown in the Assembly figures above.
3. The design professional shall ensure that adequate lateral bracing is provided to prevent displacement of the beam due to the torsion created by the structural members framing into the side of the beam assembly.