

MULTI-PLY WOOD TRUSS APPLICATIONS

STRONG-DRIVE® SCREWS (SDS) FOR GIRDER TRUSSES

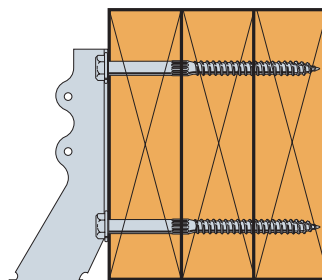
1. Install Simpson Strong-Tie® Strong-Drive screws (SDS) a minimum of 1 inch into the last truss ply, with a maximum gap of 1/8" allowed between each truss ply.
2. Screw spacing shall not exceed 24" o.c.
3. Hanger load spacing on the multi-ply truss shall not exceed 24" o.c.
4. The Truss Designer shall ensure that adequate lateral bracing is provided to prevent displacement of the truss and the truss bottom chord due to the torsion created by the structural members framing into the side of the multi-ply girder truss.
5. Strong-Drive Screws may be installed with the heads in either the loaded or unloaded ply (see Allowable Shear Loads table). For unloaded ply applications, hanger face nails shall be a minimum of 3" long.
6. Strong-Drive screws are permitted to be installed through metal truss plates as approved by the Truss Designer, provided the requirements of ANSI/TPI 1-2007 Section 8.9.2 are met (pre-drilling required through the plate using a maximum of 5/32" bit).
7. Use 1 row of SDS's in 2x4 members, 2 rows in 2x6 and 2x8 members, 3 rows in 2x10 members. Rows should be staggered.
8. Individual screw locations may be adjusted up to 1/2 of the required screw spacing to avoid conflicts with other hardware or to avoid lumber defects.

These products feature additional corrosion protection.

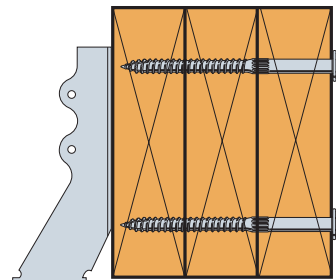
Model No.	Allowable Shear Loads					
	DF/SP			SPF/HF		
	Floor (100)	Snow (115)	Roof (125)	Floor (100)	Snow (115)	Roof (125)
INSTALLATION IN LOADED PLY¹						
SDS25412	350	400	435	250	290	270
SDS25600	350	400	435	250	290	270
INSTALLATION IN UNLOADED PLY						
SDS25412	200	230	250	145	165	180
SDS25600	200	230	250	145	165	180

1. Where noted allowable loads are based on ESR-2236.
2. The Truss Designer shall apply all adjustment factors required per the NDS.
3. Loads are based on 1 1/2" thick wood side members and apply to 3 and 4 ply 2x wood truss applications. (Side and main members of same wood species.) Contact Simpson Strong-Tie for other applications.
4. LSL applications are limited to interior-dry use only.

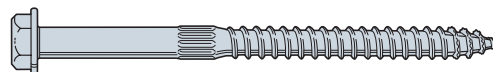
For more information, refer to technical bulletin T-SDSCREWAPPS (see page 191 for details). Also see Connector Selector Software page 194.



SDS Installation in Loaded Ply



SDS Installation in Unloaded Ply



Simpson Strong-Tie Strong-Drive Screw

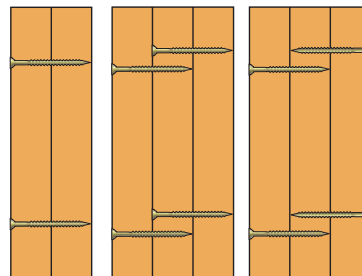
U.S. Patent 6,109,850 / 5,897,280 / 5,044,853

QUIK DRIVE® AUTO-FEED SYSTEM FOR 2-PLY AND 3-PLY GIRDERS

Simpson Strong-Tie Quik Drive WSNTL wood screws are a safe, fast and reliable method for attaching multi-ply trusses. The QD WSNTL screws, like their SDS counterparts, virtually eliminate ply separation during handling.



Simpson Strong-Tie Quik Drive WSNTL Series Screw



WSNTL Installation in 2-ply and 3-ply Assemblies



See the Quik Drive Auto-Feed Screw Driving Systems catalog (form C-QD) for more information. (See page 191 for details)

TSF Truss Spacer

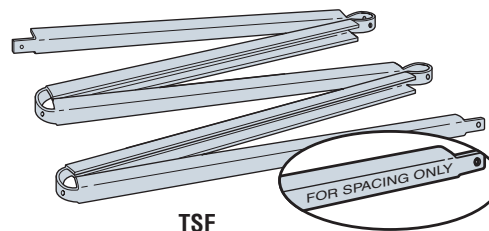
The TSF is a fast and accurate method for spacing trusses that eliminates layout marking of top plates and can be left in place under the sheathing. Accuracy is improved, spacing errors are minimized, and it is easy to use.

MATERIAL: 24 gauge **FINISH:** Galvanized

INSTALLATION: • See Installation Sequence below.

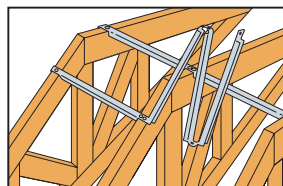
- TSF Truss Spacers do not provide bracing of any kind and are not structural members. The TSF is for spacing only. Refer to instructions from architect, engineer, truss manufacturer or other for bracing and installation information.

CODES: See page 12 for Code Reference Key Chart.

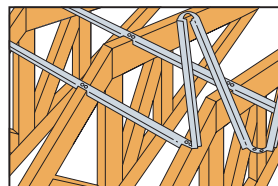


TSF

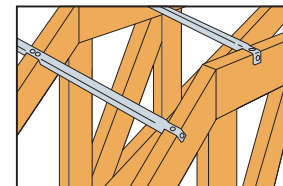
Model No.	Dimensions			Code Ref.
	W	O.C. Spacing	Total Length	
TSF2-16	1 1/2	16	8'	180
TSF2-24	1 1/2	24	10'	



STEP 1
Nail starting notch to first member.



STEP 2
As each successive member is positioned, unfold TSF to next notch. The notch teeth grip member and align it for nailing.



STEP 3
If spacer does not align with end truss, break spacer off at notch. Then, hammer spacer flat, fold it under and nail.