Strong-Drive®
SDWH TIMBER-HEX SS Screw

Structural Wood-to-Wood Connections Including Ledgers, Indoor/Outdoor Projects, Applications Requiring High to Severe Corrosion Resistance

Type 316 stainless steel provides severe corrosion resistance, making it suitable for exterior and preservative-treated wood applications.

For more information, see p. 62, C-F-2023 *Fastening Systems* catalog

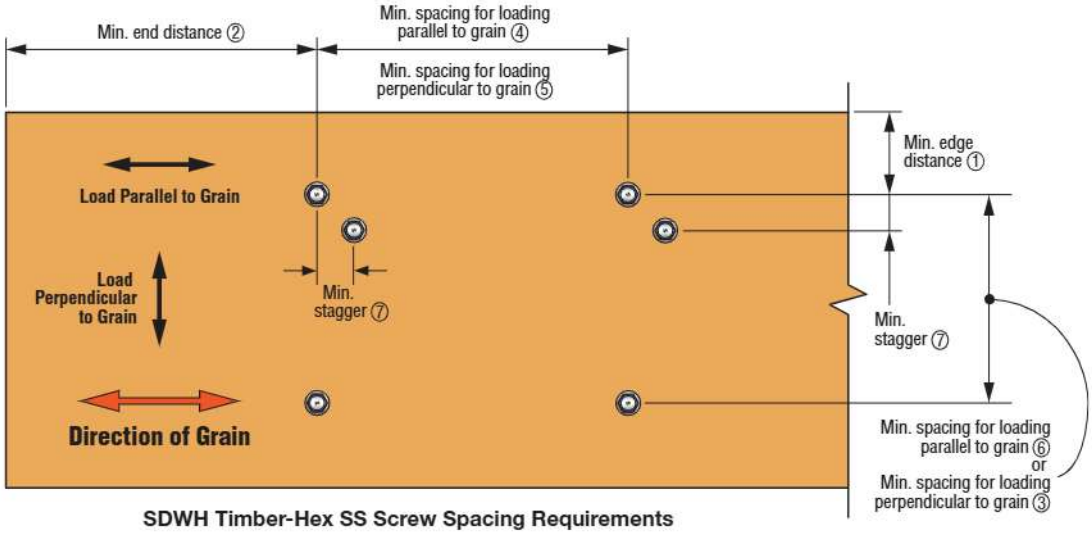
SDWH Timber Hex SS Screw — Allowable Shear Loads — Douglas Fir–Larch, Southern Pine, Spruce-Pine-Fir, Hem-Fir

Length (in.)	Model No.	Thread Length (in.)	Head Diameter (in.)	Reference Allowable Shear Loads (lb.)		
				Wood Side Member Thickness (in.)		
				1½	3	3½
4	SDWH19400SS	2.40	0.46	177	—	—
4½	SDWH19450SS	2.75	0.46	177	177	—
5	SDWH19500SS	2.40	0.46	177	177	177
6	SDWH19600SS	2.40	0.46	177	177	177
8	SDWH19800SS	2.40	0.46	177	177	177
4	SDWH27400SS	3.00	0.65	235	—	—
5	SDWH27500SS	3.00	0.65	235	235	235
6	SDWH27600SS	3.00	0.65	235	235	235
8	SDWH27800SS	3.00	0.65	235	235	235
10	SDWH271000SS	3.00	0.65	235	235	235
12	SDWH271200SS	3.00	0.65	235	235	235

Note: See p. 65 for spacing requirements.

1. All applications are based on full penetration into the main member. Full penetration is the screw length minus the side member thickness.
2. Allowable loads are shown at the load duration factor of C_D = 1.0. Loads may be increased for load duration per the building code up to a C_D = 1.6. Tabulated values must be multiplied by all applicable adjustment factors per the NDS.
3. Table values based on testing in SPF lumber.
4. Design values include NDS wet service factor; no adjustment required for in-service moisture content greater than 19%.
5. Allowable loads are perpendicular or parallel to grain.
6. Installs best with 18V high-torque cordless or ½" low speed drill. If splitting occurs predrill with 5⁄32" drill bit for SDWH19 screws and 7⁄32" drill bit for SDWH27 screws.
7. Allowable withdrawal load for the SDWH19 screw for DFL/SP is 155 lb./in. and for SPF/HF is 108 lb./in. Allowable load is based on inches of thread penetration into the main member.
8. Allowable withdrawal load for the SDWH27 screw for DFL/SP is 260 lb./in. and for SPF/HF is 160 lb./in. Allowable load is based on inches of thread penetration into the main member.
9. For LRFD values, the reference connection design values shall be adjusted in accordance with NDS-18, section 11.3.

Strong-Drive®
SDWH TIMBER-HEX SS Screw (cont.)



SDWH Timber-Hex SS Screw Spacing Requirements

SDWH Timber-Hex SS Screw Spacing Requirements

Condition	Direction of Load to Grain	ID	Minimum Distance or Spacing (in.)
Edge Distance	Perpendicular	①	1 7/16
	Parallel	①	1 7/16
End Distance	Perpendicular	②	3
	Parallel	②	3
Spacing Between Fasteners in a Row	Perpendicular	③	3
	Parallel	④	3
Spacing Between Rows of Fasteners	Perpendicular	⑤	3
	Parallel	⑥	3
Spacing Between Staggered Rows	Perpendicular or Parallel	⑦	1½

1. For SDWH19 screws subject to axial loading only, use the following minimum dimensions: end distance: = 2⅜", edge distance = 1", spacing parallel to grain = 1⅝", spacing perpendicular to grain = 1".
2. For SDWH27 screws subject to axial loading only, use the following minimum dimensions: end distance = 3¼", edge distance = 1⅜", spacing parallel to grain = 2⅜", spacing perpendicular to grain = 1⅝".