

Wood-to-Steel Fastening Wood-to-Steel Fastening

Strong-Drive® TF WOOD-TO-STEEL Screw

Common Applications:

- Wood to hot-rolled steel (Maximum recommended thickness: $\frac{1}{2}$ ")

For more information, see pp. 116 and 236, C-F-2023 Fastening Systems catalog

TF WOOD-TO-STEEL Screw —
Allowable Loads — SPF/DFL/SP
Lumber Attachment to Steel
(Steel Members $\frac{1}{4}$ " – $\frac{1}{2}$ " Thick)

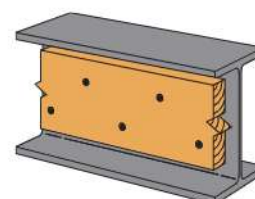


Model No.	Length in. (mm)	Nominal Wood Thickness (in.)	Wood Species	Reference SPF, DFL, SP Allowable Loads (lb.)			
				Uplift		Shear	
				$C_D = 1.0$	$C_D = 1.6$	$C_D = 1.0$	$C_D = 1.6$
TFP1475	3 (75)	2x	SPF	190	300	210	335
			DFL	260	415	265	425
			SP	370	590	300	480

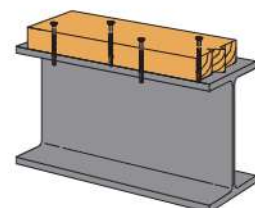
1. For use with structural steel members from $\frac{1}{4}$ " up to $\frac{1}{2}$ " thick.
2. Minimum steel strength $F_u = 45$ ksi.
3. Standard product available in a black phosphate coating.
4. Reference allowable loads are based on tests using 2x (1.5 in.) thick wood members.
5. Use increased allowable loads ($C_D = 1.6$) only when resisting wind or seismic forces. Values must be multiplied by all applicable adjustment factors per the NDS.
6. See figure for minimum spacing requirements.

TF-WOOD-TO-STEEL Screw Spacing Requirements

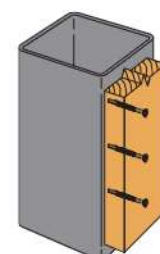
Condition	Direction of Load to Grain	ID	Minimum Distance or Spacing (in.)
Edge Distance	Perpendicular	①	1½
	Parallel	①	1½
End Distance	Perpendicular	②	4
	Parallel	②	4
Spacing Between Fasteners in a Row	Perpendicular	③	1¾
	Parallel	④	4
Spacing Between Rows of Fasteners	Perpendicular	⑤	2½
	Parallel	⑥	1¾
Spacing Between Staggered Rows	Perpendicular or Parallel	⑦	¾



Typical web filler with
2x wood member



Typical top flange
installation



Typical tube steel
post installation

