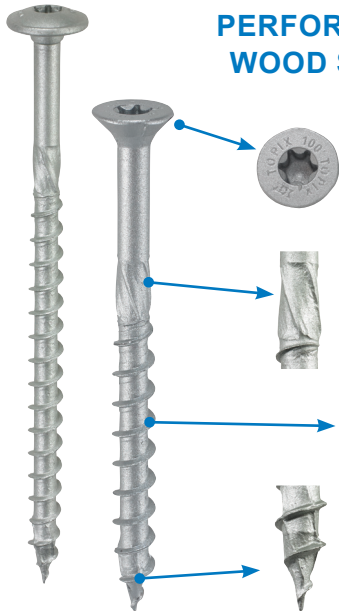




**ENGINEERED TO BE THE BEST  
PERFORMING STRUCTURAL  
WOOD SCREW AVAILABLE**



**FEATURES & BENEFITS**

TORX recess drive provides optimal driving stability and eliminates cam-out of drive bit.

Knurled shank reams the wood during installation that reduces tapping torque.

Superior corrosion protection with TRI-SEAL® 1,000 hrs. coating exceeds performance of HDG per ASTM A153.

Special ribs located in the point reduced the spilling of wood.

**REPLACES LAG SCREWS | NO PRE-DRILLING REQUIRED!**

**TECHNICAL INFORMATION**

Dimensions and strength details

HEAD STYLE	Nominal Fastener Diameter	Head Size		Shank Diameter <sup>1</sup> (in.)	Thread Dia.	Nominal Bending Yield (F <sub>b</sub> , psi)			Allowable Fastener Strength <sup>3</sup>	
		Diameter (in.)	Height (in.)			Major	Transition Zone	Shank	Tensile (lbs)	Shear (lbs)
Flange	1/4"	0.552	0.094	0.173	0.244	201,611	237,010	970	485	
	5/16"	0.709	0.148	0.228	0.315	167,894	178,866	1810	905	
Countersunk	5/16"	0.583	-	0.228	0.315	167,894	178,866	1810	905	

**Withdrawal design values | Face grain applications**

Allowable Withdrawal Design Values by Species (Specific Gravity) (lbs.)

Nominal Fastener Diameter	Face Grain Applications		
	SPF (.42)	DF (.50)	SP (.55)
1/4"	95	135	220
5/16"	120	180	255

1. Values stated in lbf for each 1-inch of thread engagement.
2. Fastener embedment of 1-inch in the main member includes the tip.
3. Values shall be adjusted by all applicable adjustment factors per NDS Section 10.3 for wood screws.

**Head pull-through design values**

Min. Side Member Thickness (in.)	Nominal Fastener Diameter (in.)	Flange Head Diameter (in.)	Countersunk Head Diameter (in.)	SPF (.42)		DF (.50)		SP (.55)	
				Flange	CSNK	Flange	CSNK	Flange	CSNK
3/4"	1/4"	0.552	0.457	155	130	220	185	265	225
	5/16"	0.705	0.583	195	165	275	235	335	280
1-1/2"	1/4"	0.552	0.457	310	265	440	370	535	450
	5/16"	0.705	0.583	390	330	550	465	670	565

**Lateral design values using dimensional lumber**

Fastener Head Type	Nominal Fastener Diameter	Fastener Length	Side Member Thickness	Min. Penetration into Main Member (in.)	Lateral Design Values (lbs.) by Species (Specific Gravity) & Load Orientation					
					SPF (.42)		DF (.50)		SP (.55)	
					Z Para	Z Perp	Z Para	Z Perp	Z Para	Z Perp
Flange	1/4"	2-3/8"	1-1/2"	7/8"	115	90	140	110	160	125
		2-3/4"		1-1/4"	130	105	165	135	190	155
		3-1/8"		1-1/2"	145	115	175	140	190	155
		4"		2-1/2"	145	115	175	140	190	155
		> 4-3/4"		3-1/4"	145	115	175	140	190	155
		2-3/4"		1-1/4"	155	125	215	170	525	550
	5/16"	3-1/8"		1-5/8"	175	140	245	195	525	550
		4"		2-1/2"	195	155	245	195	525	550
		4-3/4"		3-1/4"	195	155	245	195	525	550
		> 5-1/2"		4"	195	155	245	195	525	550
		3-1/8"		1-5/8"	175	140	245	195	285	225
		3-1/2"		2"	195	155	245	195	285	225
Countersunk	5/16"	>4"	2-1/2"	195	155	245	195	285	225	

1. Reference lateral design values apply to two-member single shear connections where both members are of the same specific gravity, and the fastener is oriented perpendicular to grain. Where the members are of different specific gravities, use the lower of the two.
2. Values shall be adjusted by all applicable adjustment factors per NDS Section 10.3 for withdrawal of wood screws.



**FASTENING SYSTEMS AND SOLUTIONS FOR CONSTRUCTION**

**SIZES**

**FLANGE HEAD**

Diameter	Length	Drive	Thread	Quantity	P.N.
1/4"	1-1/2"	T25	Full	2000	1616376
1/4"	2-3/4"			800	1616377
5/16"	2-3/4"	T40	Part	500	1616378
5/16"	3-1/8"		Full	500	1616379
5/16"	4"		Part	400	1616380
5/16"	5-1/2"		Part	300	1616381

**COUNTERSUNK HEAD**

Diameter	Length	Drive	Thread	Quantity	P.N.
5/16"	2-3/4"	T40	Part	500	1618649
5/16"	4"			400	1618650

**Attach brackets to wood or splice wood-to-wood**



- Trusses
- Joists
- Stair stringers
- Headers
- Support frames
- SIPS
- Columns
- Purlins
- Engineered lumber
- Deck framing

Evaluation Report: TER 1609-08  
TER 1609-08 is a code compliance report that was written, published, and can be PE stamped by DrJ Engineering.

Contact TFC for more information.