

## ST Reamer Screw

### Features and Benefits

- Family of screws designed to attach plywood & dimensional lumber to steel thickness up to .250"
- Small wings help bore a clearance hole to help prevent premature thread engagement in the wood. The wings break off after drilling is completed.
- Wafer head design is used for plywood applications. Flat head design is used for lumber applications.
- Applications including floor in steel frame homes & truck body beds.

SIZE	HEAD STYLE	CARTON QTY.	WEIGHT/M
10-16 x 1-5/8"	#2 Square/Phillips Combo	3500	9.2
12-24 x 2"	#3 PFH	2000	17.5
12-24 x 2-1/2"	#3 PFH	2000	19.5
1/4-20 x 2-3/4"	#3 PFH	1500	28.6
1/4-20 x 3-1/4"	6 LOBE	1000	35.0

PULL OVER STRENGTH LBS. ULT.			
SUBSTRATE	GAUGE	THICKNESS	VALUE
10-16 HRS Primed Only	16	.065	847
10-16 HRS Primed Only	14	.070	916
10-16 HRS Primed Only	12	.106	1085
10-16 A36 HRS	3/16"	.187	2371*
10-16 G-90 GALVANIZED	18	.047	587
12-24 HRS Primed Only	16	.065	832
12-24 HRS Primed Only	14	.070	947
12-24 HRS Primed Only	12	.106	1480
12-24 A36 HRS	3/16"	.187	2582
12-24 A36 HRS	1/4"	.250	3494*
1/4-20 HRS Primed Only	16	.065	970
1/4-20 HRS Primed Only	14	.070	1165
1/4-20 HRS Primed Only	12	.106	1838
1/4-20 A36 HRS	3/16"	.187	3145
1/4-20 A36 HRS	1/4"	.250	5240*

\*DENOTES TENSILE FAILURE OF FASTENER\*\*HOT ROLLED STEEL

PULL OVER STRENGTH LBS. ULT.		
DESIGNATION THICKNESS	CDX PLYWOOD (NOM 1/2")	2X YELLOW PINE (1.5 ACTUAL)
10-16 (NOTE 3)	680 (NOTE 1)	596
12-24		1302
1/4-20		1383

#### NOTES

1. Wafer head flanges broke during pull over testing in nom. 1/2" plywood value tabulated 1/2" plywood for represents the ultimate strength of the fastener. Pull over strength for plywood thickness is greater than 1/2" can be considered same value as tabulated (596 lbs. ult.)
2. Technical data provided herein is to be used as a guide for typical strength characteristics only. All strength values shown are ultimate values expressed in pounds. An appropriate factor of safety must be applied by the user to obtain allowable limits for design.
3. Max. plywood thickness for use with this reamer fastener is 3/4".\*\* The value tabulated is the force at which the ZXL head breaks from the carbon steel body.
4. Square/Phillips Combo Head available on #10 Diameter.

6357 Reynolds Road Tyler, Texas 75708 | P.O. Box 4515, Tyler, Texas 75712 | 800-352-4864 | 800-352-3940 Fax  
9950 Princeton Glendale Rd. Cincinnati, OH 45246 | 800-944-8920 | 800-352-3940 Fax  
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#### DRILL POINT

10-16 - WINGED SD  
12-24 - WINGED SD  
1/4-20 - WINGED SD

#### MAJOR DIAMETER

10-16 -.189/.183  
12-24 -.216/.209  
1/4-20 -.250/.242

#### MINOR DIAMETER

10-16 -.141/.135  
12-24 -.165 REF.  
1/4-20 -.187 REF.

#### HEAD DIAMETER

10-16 -.440 NOM.  
12-24 -.389 NOM.  
1/4-20 -.507/.452.

#### POINT DIAMETER

10-16 -.156/.151  
12-24 -.191/.197  
1/4-20 -.226/.220

#### ULT. TENSILE STRENGTH

10-16 - 1920 LBS.  
12-24 - 2800 LBS.  
1/4-20 - 4270 LBS.

#### ULT. TENSILE STRENGTH

10-16 - 61 IN-LBS.  
12-24 - 100 IN-LBS.  
1/4-20 - 168 IN-LBS.

#### ULT. TENSILE STRENGTH

10-16 - 1633 LBS.  
12-24 - 2000 LBS.  
1/4-20 - 3000 LBS.

### Applications

