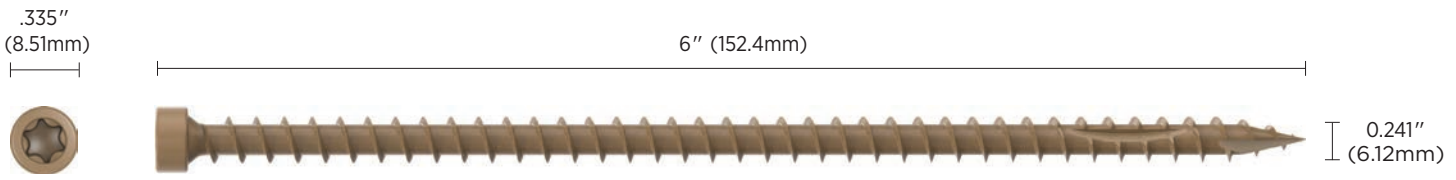
6 IN. Truss Structural Screws
BOTTOM PLATE TO RIM BOARD CONNECTIONS



#14 x 6″ T-30 Star Truss Screw
PROTECH® Ultra 4 coated

CAMO #14 x 6” Structural Truss Screws have been tested for use in the attachment of wall bottom plates to the rim board in the construction of walls. When installed following the instructions in this bulletin, our Truss Screws can be used for these connections according to IBC section 2308 and IRC section R602.

CORROSION STATEMENT

Our proprietary PROTECH Ultra 4 four-layer coating system applied to our Ledger Screws has been tested in accordance with ASTM G198 and offers the same level of protection as code-approved hot-dip galvanized (ASTM A153, Class D) in ground contact general use pressure treated lumber (AWPA UC1-UC4A). Our Truss screws with PROTECH Ultra 4 coating are recognized for use in untreated lumber, ground contact general use pressure-treated lumber, and fire retardant treated (FRT) lumber. A statement of compliance can be found in our DrJ TER reports.

PRODUCT FEATURES

- Code listed per DrJ TER No. 2102-01 and 2102-03 and State of Florida FL 41741
- Cylinder head with T-30 star drive
- No pre-drilling necessary
- PROTECH Ultra 4 coating offers same level of protection as hot-dip galvanized coating
- Included Truss Guide for 22.5 degree installations

IRC/IBC CODE-COMPLIANT

DrJ CERTIFIED

INSTALLATION INSTRUCTIONS

1) Use a ½" (12.7mm) low rpm/high torque electric drill (450 rpm) and the driver bit supplied with the screws.

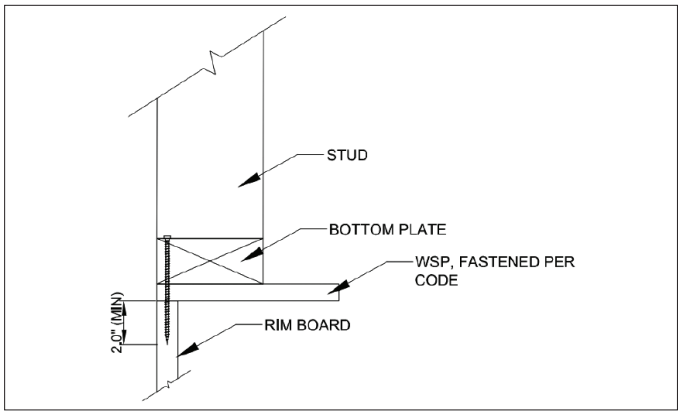
2) Install the screws downward and perpendicular to the face of the wall bottom plate, a minimum of ½" from the outside face of the wall, through the plate and into the rim board (see Figure 1)

3) Follow the minimum requirements for fastener spacing, edge distance, and end distance listed in Table 1.

4) Minimum penetration for truss / rafter / joist to bottom plate connections is 2".

5) Drive the screws until the topside of the head is flush to the surface of the wood. Do not overdrive.

FIGURE 1



SPACING REQUIREMENTS

Minimum requirements for fastener spacing, edge distance, and end distance shall be in accordance with Table 1.

TABLE 1: MINIMUM SPACING, EDGE DISTANCE, AND END DISTANCE REQUIREMENTS

CONNECTION GEOMETRY	MINIMUM SPACING/ DISTANCE (IN)
Edge Distance – Load in any direction	½
End Distance – Load parallel to grain, towards end	2½
End Distance – Load parallel to grain, away from end	1⅝
End Distance – Load perpendicular to grain 15/8	1⅝
Spacing between Fasteners in a Row – Parallel to grain	2½
Spacing between Fasteners in a Row – Perpendicular to grain	1⅝
Spacing between Rows of Fasteners – In-line	⅞
Spacing between Rows of Fasteners – Staggered	½

SI: 1 in = 25.4 mm

1. Edge distances, end distances, and spacing of fasteners shall be sufficient to prevent splitting of the wood or as shown in this table, whichever is the more restrictive.
2. Values for "Spacing between Rows of Fasteners – Staggered" apply where the fasteners in adjacent rows are offset by one half of the "Spacing between Fasteners in a Row".

ALLOWABLE DESIGN LOADS

Allowable design loads for lateral resistance parallel to grain in bottom plate to rim board connections are provided in Table 2. These allowable design loads are applicable to Truss Screws installed in accordance with the instructions in this bulletin.

TABLE 2: ALLOWABLE SHEAR LOADS PARALLEL TO GRAIN FOR BOTTOM PLATE TO RIM BOARD CONNECTIONS

FASTENER	MINIMUM NOMINAL BOTTOM PLATE THICKNESS	MINIMUM PENETRATION INTO RIM BOARD (IN)	ALLOWABLE SHEAR LOADS, PARALLEL TO GRAIN (LB) [1,2,3]								
			RIM BOARD SPECIES (SPECIFIC GRAVITY)								
			HF/SPF (0.42)			DF-L (0.50)			SP (0.55)		
			BOTTOM PLATE SPECIES (SPECIFIC GRAVITY)								
			HF/SPF (0.42)	DF-L (0.50)	SP (0.55)	HF/SPF (0.42)	DF-L (0.50)	SP (0.55)	HF/SPF (0.42)	DF-L (0.50)	SP (0.55)
#14 X 6"	2x	2	155	175	180	160	190	195	165	195	205

SI: 1 in = 25.4 mm, 1 lb = 4.45 N

1. For wood species with an assigned specific gravity between 0.42 and 0.50, use the tabulated values for a specific gravity of 0.42. For wood species with an assigned specific gravity between 0.50 and 0.55, use the tabulated values for a specific gravity of 0.50. For wood species with an assigned specific gravity greater than 0.55, use the tabulated values for a specific gravity of 0.55.
2. EFor applications involving members with different specific gravities, use the allowable load corresponding to the lowest specific gravity
3. Tabulated loads are based on a load duration factor of CD = 1.00. Loads may be increased for load duration per NDS.