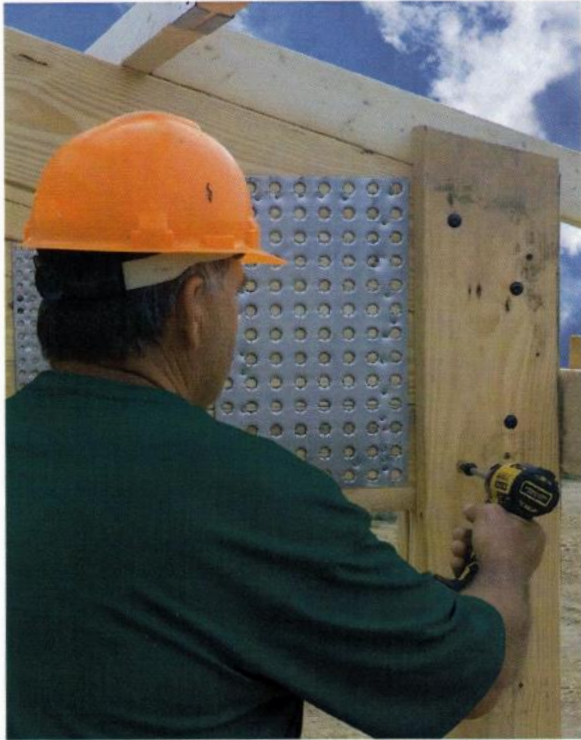




ConnexTite
Structural Wood Screws





ConnexTite™

Structural wood screws

Ideal for single and multi-ply truss, column, header and joist applications

- Large flange maximizes clamping force for the tightest connections.
- Aggressive thread design draws connections together for fast assembly.
- Special point cuts through the densest lumber without splitting.
- TORX® drive provides a positive stick fit allowing for one handed installation.
- Proprietary coating meets or exceeds corrosion resistance of hot-dipped fasteners coated in accordance with ASTM A153.
- Approved for structural connections per IBC 1703.
- Installs using standard impact gun.



Features



Flange head with TORX® recess provides positive drive.



Ribbed point eliminates splitting.



Reamer knurl reduces driving torque.

Application

- Trusses
- Headers
- Columns
- Purlins to roof
- Joists
- Support frames
- Purlins to wall
- Deck framing
- Stair stringers
- Structural insulated panels
- Engineered lumber




To purchase please contact a registered Direct Metals Inc distributor. For technical support or assistance in finding a distributor please call 855-800-8878 or info@directmetalsinc.com

The ConnexTite™ Advantage

ConnexTite™ vs. Carriage Bolt

| Application | Attachment Technique | Design Value | The ConnexTite Advantage |
|--|--|--------------------------|---|
|  <p>Single Ply Truss Three Ply Column</p> |  <p>(1) 1/2" x 6" Carriage Bolt</p> | 1150 lbs shear in SYP | <p>Installation Time: 2X Faster</p> <p>Installed Cost: 25% Lower</p> <p>Lateral Design: Equivalent</p> |
| |  <p>(4) 5/16" x 4" ConnexTite</p> | 1140 lbs shear in SYP | |

ConnexTite™ vs. 40D Ring Shank Nail

| Application | Attachment Technique | Design Value | The ConnexTite Advantage |
|---|---|----------------------------|---|
|  <p>2 x 4 Purlins on end to Single Ply Roof Truss</p> |  <p>(2) 40D Ring Shank Nail</p> | 416 lbs Pull-out in SYP | <p>Installation Time: 6X Faster</p> <p>Installed Cost: 23% Lower</p> <p>Withdrawal Design: 6% Higher</p> |
| |  <p>(1) 1/4" x 5-1/2" ConnexTite</p> | 440 lbs Pull-out in SYP | |

ConnexTite™ Selection

| Material No. | Diameter | Length | Thread | Package | Quantity |
|--------------|----------|--------|--------|---------|----------|
| 1550568 | 1/4" | 1-1/2" | Full | Pail | 1000 |
| 1550569 | 1/4" | 2-3/4" | Full | Pail | 800 |
| 1550581 | 5/16" | 2-3/4" | Part | Pail | 500 |
| 1550582 | 5/16" | 3-1/8" | Full | Pail | 500 |
| 1550583 | 5/16" | 4" | Part | Pail | 400 |
| 1550585 | 5/16" | 5-1/2" | Part | Pail | 300 |

Additional sizes available upon request.



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Technical Values for ConnexTite™

| Fastener Name | Nominal Fastener Diameter | Head | | Shank Diameter ¹ (in.) | Thread Diameter (in.) | | Nominal Bending Yield (f _y , psi) | | Allowable Fastener Strength ³ | |
|-------------------------|---------------------------|----------------|--------------|-----------------------------------|-----------------------|-------|--|---------|--|-------------|
| | | Diameter (in.) | Height (in.) | | Minor ² | Major | Transition Zone | Shank | Tensile (lbs) | Shear (lbs) |
| ConnexTite™ Flange Head | 1/4" | .552 | .094 | .173 | .148 | .244 | 201,611 | 237,010 | 970 | 485 |
| | 5/16" | .709 | .148 | .228 | .207 | .315 | 167,894 | 178,866 | 1810 | 905 |

For SI: 1" = 25.4 mm, 1 lbf = 4.45 N, 1 psi = 6.895 kPa.

- Shank diameter based on manufactured thickness. Finished dimensions are larger in the plated condition due to the proprietary coatings added.
- Minor thread diameter value is calculated as the average of the upper and lower tolerances.

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

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

- Values are stated in lbf/in of thread engagement.
- Values shall be adjusted by all applicable adjustment factors per *NDS* Section 10.3 for wood screws.
- Fastener penetration is that threaded length embedded in the main member, including the tip.

Head Pull Through Design Value (lbs.)

| Min. Side Member Thickness (in.) | Nominal Fastener Diameter (in.) | Head Diameter Measured (in.) | SPF (.42) | DF (.50) | SP (.55) |
|----------------------------------|---------------------------------|------------------------------|-----------|----------|----------|
| | | | Flange | Flange | Flange |
| 3/4" | 1/4" | .552 | 155 | 220 | 265 |
| | 5/16" | .705 | 195 | 275 | 335 |
| 1-1/2" | 1/4" | .552 | 310 | 440 | 535 |
| | 5/16" | .705 | 390 | 550 | 670 |

- Values shall be adjusted by all applicable adjustment factors per *NDS* Section 10.3 for withdrawal of wood screws.

Lateral Design Values (lbs.) by Species (Specific Gravity) & Load Orientation

| Fastener Head Type | Nominal Fastener Diameter (in.) | Fastener Length (in.) | Side Member Thickness (in.) | Min. Penetration into Main Member (in.) | SPF (.042) | | DF (0.50) | | SP (0.55) | |
|--------------------|---------------------------------|-----------------------|-----------------------------|---|------------|--------|-----------|--------|-----------|--------|
| | | | | | Z Para | Z Perp | Z Para | Z Perp | Z Para | Z Perp |
| Flange | 1/4" | 2-3/4" | 1-1/2" | 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 |
| | 5/16" | 2-3/4" | | 1-1/4" | 155 | 125 | 215 | 170 | 255 | 205 |
| | | 3-1/8" | | 1-5/8" | 175 | 140 | 245 | 195 | 285 | 225 |
| | | 4" | | 2-1/2" | 195 | 155 | 245 | 195 | 285 | 225 |
| | | 4-3/4" | | 3-1/4" | 195 | 155 | 245 | 195 | 285 | 225 |
| | | ≥ 5-1/2" | | 4" | 195 | 155 | 245 | 195 | 285 | 225 |

- 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.
- Values shall be adjusted by all applicable adjustment factors per *NDS*.

Evaluation Reports

For further technical information, and available fastener sizes, refer to TER 1609-08.

TER 1609-08 is a code compliance report that was written, published, and PE stamped by DrJ Engineering. This report summarizes the ConnexTite fastener's ability to meet the performance standards that are mandated by the International Building Code, as well as state and local building codes. DrJ Engineering is an ISO/IEC 171065 accredited company that is deemed to be competent to perform product certifications in accordance with section 104.11.1 of the International Building Code.

Technical information and state engineer stamps, visit: www.drjcertification.org/code-compliance/ters



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