

Sizes

#9-15 Dual Thread



#10-14 Dual Thread with Type 17 Point



#12-8 Low Root with Type 17 Point



#12-11 Double Lead Lap



#14-10 Single Lead Type 17 Point



Hex Sizes: #9, #10, #12 = 1/4" HWH | #14 = 5/16" HWH
 Washer Diameters: #9, #10 = 12mm OD | #12 = 14mm OD | #14 = 15mm OD
 Washer Types: Stainless Steel Screws = 304SS vulcanized to non-conductive EPDM.
 Carbon Steel Screws = G90 20ga Galvanized Steel vulcanized to non-conductive EPDM.

Material Specifications

Material: Carbon Steel
Finish: TRI-SEAL Long-life (ACQ Compatible)

Paint

Kalida-Kote Polyurethane with UV stabilizer

Material: 304 Stainless Steel
Finish: Passivated. (ACQ Compatible)

Material: 304 Stainless Steel
Plating: Zinc Plated

Performance Specifications

Strengths (Carbon Steel)

| Size | Tensile (lbs. min) | Shear (avg. lbs. ult.) | Torsional (min. in. lbs.) |
|----------|--------------------|------------------------|---------------------------|
| #9-15 CS | 1,800 | 1,200 | 50 |
| #9-15 SS | 1,500 | 980 | 45 |
| #10-9 | 1,850 | 1,216 | 65 |
| #10-12 | 2,100 | 1,400 | 65 |
| #10-14 | 1,850 | 1,216 | 65 |
| #12-8 | 2,183 | 1,946 | 80 |
| #12-11 | 2,778 | 2,000 | 92 |
| #14-10 | 3,150 | 2,150 | 125 |

Pullover Strength in Pounds

| Washer Size | 26ga (.19") | 24ga (.023") | 22ga (.031") | 20ga (.035") | 18ga (.049") |
|-------------|-------------|--------------|--------------|--------------|--------------|
| 1/2" O.D. | 515 | 674 | 875 | 1100 | 1627 |
| 9/16" O.D. | 587 | 744 | 915 | 993 | 1246 |
| 15mm O.D. | 564 | 810 | 1097 | 1166 | 1643 |

Pullout Values in Wood (Carbon Steel or Stainless Steel)

Ultimate Average Load in Pounds Force

| Fastener Dia. & Point | Wood Type | | | | | | |
|-----------------------|-----------|----------|----------|-----------|------------|------------|-----------|
| | 1/2" Ply | 5/8" Ply | 3/4" Ply | 7/16" OSB | 19/32" OSB | 23/32" OSB | 2 x 4 SYP |
| #9-15 GP | 350 | 402 | 548 | 173 | 344 | 431 | 887 |
| #10-9 Type 17 | 383 | 395 | 574 | 136 | 256 | 514 | 813 |
| #10-12 GP | 375 | 505 | 654 | 166 | 357 | 442 | 737 |
| #10-14 High-Low | 375 | 505 | 654 | 166 | 357 | 442 | 737 |
| #12-8 Type 17 | 296 | 445 | 552 | 139 | 445 | 538 | 748 |
| #14-10 | 434 | 475 | 626 | 153 | 327 | 475 | 1030 |

Test Setup: 2 x 4 - 1" embedment. All other tests full thread embedment.

Corrosion Test Results TRI-SEAL® COATING

| Testing Method | *Results |
|-----------------------------------|----------------------|
| SO ₂ Test Per ASTM G87 | 20 Cycles (2 liters) |
| Salt Spray Per ASTM B117 | 1,000 hours |

Exceeds ASTM B633 Salt Spray requirements. *0% Red Rust

DISCLAIMER: ALL TEST RESULTS AND FASTENER RECOMMENDATIONS ARE BASED ON LABORATORY CONDITIONS. BECAUSE ACTUAL JOB SITE CONDITIONS VARY AND ARE UNCONTROLLABLE BY TFC. WE ASSUME NO LIABILITY FOR THE USE OF THIS INFORMATION.