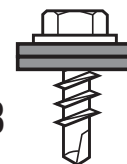


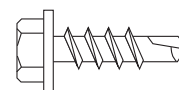


**HEX WASHER HEAD SELF-DRILL SCREW**  
**#12 and 1/4" BODY DIAMETER**  
Steel to steel.

**ESR 1408**



**Product Specifications**



| Part #   | Dia. | Length | TPI | Bulk Qty | Finish | Corrosion         | Head      | Head Dia.   | Thread | Drill Pt. | Drill Capacity |
|----------|------|--------|-----|----------|--------|-------------------|-----------|-------------|--------|-----------|----------------|
| HWD12034 | 12   | 3/4    | 14  | 5M       | Zinc   | 24 hr. min. B-117 | 5/16" A/F | 10.1-11.0mm | FULL   | 3         | .110"-.210"    |
| HWD12100 | 12   | 1      | 14  | 3M       | Zinc   | 24 hr. min. B-117 | 5/16" A/F | 10.1-11.0mm | FULL   | 3         | .110"-.210"    |
| HWD12114 | 12   | 1-1/4  | 14  | 3M       | Zinc   | 24 hr. min. B-117 | 5/16" A/F | 10.1-11.0mm | FULL   | 3         | .110"-.210"    |
| HWD12112 | 12   | 1-1/2  | 14  | 3M       | Zinc   | 24 hr. min. B-117 | 5/16" A/F | 10.1-11.0mm | FULL   | 3         | .110"-.210"    |
| HWD12200 | 12   | 2      | 14  | 2M       | Zinc   | 24 hr. min. B-117 | 5/16" A/F | 10.1-11.0mm | FULL   | 3         | .110"-.210"    |
| HWD12212 | 12   | 2-1/2  | 14  | 1M       | Zinc   | 24 hr. min. B-117 | 5/16" A/F | 10.1-11.0mm | FULL   | 3         | .110"-.210"    |
| HWD12300 | 12   | 3      | 14  | 1M       | Zinc   | 24 hr. min. B-117 | 5/16" A/F | 10.1-11.0mm | FULL   | 3         | .110"-.210"    |
| HWD14034 | 14   | 3/4    | 14  | 4M       | Zinc   | 24 hr. min. B-117 | 3/8" A/F  | 12.2-13.2mm | FULL   | 3         | .110"-.250"    |
| HWD14100 | 14   | 1      | 14  | 3M       | Zinc   | 24 hr. min. B-117 | 3/8" A/F  | 12.2-13.2mm | FULL   | 3         | .110"-.250"    |
| HWD14114 | 14   | 1-1/4  | 14  | 2M       | Zinc   | 24 hr. min. B-117 | 3/8" A/F  | 12.2-13.2mm | FULL   | 3         | .110"-.250"    |
| HWD14112 | 14   | 1-1/2  | 14  | 2M       | Zinc   | 24 hr. min. B-117 | 3/8" A/F  | 12.2-13.2mm | FULL   | 3         | .110"-.250"    |
| HWD14200 | 14   | 2      | 14  | 1M       | Zinc   | 24 hr. min. B-117 | 3/8" A/F  | 12.2-13.2mm | FULL   | 3         | .110"-.250"    |
| HWD14212 | 14   | 2-1/2  | 14  | 1M       | Zinc   | 24 hr. min. B-117 | 3/8" A/F  | 12.2-13.2mm | FULL   | 3         | .110"-.250"    |
| HWD14300 | 14   | 3      | 14  | 1M       | Zinc   | 24 hr. min. B-117 | 3/8" A/F  | 12.2-13.2mm | FULL   | 3         | .110"-.250"    |
| HWD14400 | 14   | 4      | 14  | 0.5M     | Zinc   | 24 hr. min. B-117 | 3/8" A/F  | 12.2-13.2mm | FULL   | 3         | .110"-.250"    |
| HWD14500 | 14   | 5      | 14  | 0.5M     | Zinc   | 24 hr. min. B-117 | 3/8" A/F  | 12.2-13.2mm | FULL   | 3         | .110"-.250"    |
| HWD14600 | 14   | 6      | 14  | 0.5M     | Zinc   | 24 hr. min. B-117 | 3/8" A/F  | 12.2-13.2mm | FULL   | 3         | .110"-.250"    |

**Pro-Twist drill screws meet or exceed ASTM C-954 and/or C-1513**

| Self-Drilling Screws Ultimate Connection Value Chart |                         |                    |                         |                           |                                 |
|------------------------------------------------------|-------------------------|--------------------|-------------------------|---------------------------|---------------------------------|
| Dia.                                                 | Nominal Screw Dia. (in) | Metal Gauge 1 (Lb) | Tension (Pull) Lbs 1 pc | Shear Lbs. Metal to metal | Minimum Torsional Strength (Lb) |
| 12                                                   | 0.216                   | 20                 | 314                     | 698                       | 92                              |
|                                                      |                         | 18                 | 472                     | 983                       |                                 |
|                                                      |                         | 16                 | 735                     | 1556                      |                                 |
|                                                      |                         | 14                 | 1057                    | 2072                      |                                 |
|                                                      |                         | 12                 | 1242                    | 2210                      |                                 |
|                                                      |                         | .156 in.           | 2685                    |                           |                                 |
|                                                      |                         | .187 in.           | 3394                    |                           |                                 |
| 14                                                   | 0.250                   | 20                 | 300                     | 797                       | 150                             |
|                                                      |                         | 18                 | 402                     | 1083                      |                                 |
|                                                      |                         | 16                 | 776                     | 1942                      |                                 |
|                                                      |                         | 14                 | 1057                    | 2300                      |                                 |
|                                                      |                         | 12                 | 1477                    | 2754                      |                                 |
|                                                      |                         | .156 in.           | 3217                    |                           |                                 |
|                                                      |                         | .187 in.           | 3941                    |                           |                                 |
|                                                      |                         | .218 in.           | 4645                    |                           |                                 |

**Ultimate Value Charts**

Screws driven into steel were driven with three exposed threads on the off side of the connection, then pulled out with testing machine.

Note that all results were obtained in strict adherence to ASTM test protocol. These ultimate figures are offered only as a guide and are not guaranteed in any way by PrimeSource Building Products. A 4:1 safety ratio is recommended.

**Installation Guidelines**

0-2500rpm Screwgun with torque adjustment - Overdriving may result in fastener failure or stripout of the work surface  
The fastener is fully seated when the head's bearing surface is flush with the steel.  
The fastener must penetrate beyond the metal a minimum of three threads to comply with the code.

**ALL PRIMESOURCE FASTENERS ARE MANUFACTURED IN AN ISO 9002 AND ISO 14001 CERTIFIED AND APPROVED FACTORY TO PRIMESOURCE PERFORMANCE SPECIFICATIONS AND PRINT DRAWINGS.**

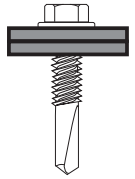


# INDENTED HEX WASHER HEAD SELF-DRILL SCREW

**#5 POINT**

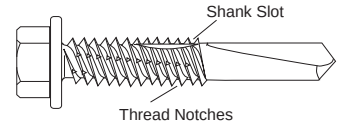
For Thicker Steel Connections.

**ES** ESR 1408



5/16" HWH

## Product Specifications



| Part #  | Dia. | Length | TPI | Bulk Qty | Finish             | Head      | HWH Dia. | Drill Capacity |
|---------|------|--------|-----|----------|--------------------|-----------|----------|----------------|
| X512114 | 12   | 1-1/4  | 24  | 2M       | PrimeGuard Plus-10 | 5/16" A/F | 10-11 mm | .250"-.500"    |
| X512112 | 12   | 1-1/2  | 24  | 2M       | PrimeGuard Plus-10 | 5/16" A/F | 10-11 mm | .250"-.500"    |
| X512200 | 12   | 2      | 24  | 2M       | PrimeGuard Plus-10 | 5/16" A/F | 10-11 mm | .250"-.500"    |

## Pro-Twist drill screws meet or exceed ASTM C-1513

| PrimeGuard Plus-10                           |                                   |           |
|----------------------------------------------|-----------------------------------|-----------|
| Corrosion Resistance                         | Applied Via                       | Guarantee |
| 1000 hr. min. B-117<br>12 Cycles Kesternich* | Multi-Step Proprietary<br>Process | Lifetime  |

\*Kesternich is an acid test protocol meeting DIN 50018, ASTM G-87

| Self-Drilling Screws Ultimate Connection Value Chart |                         |                    |                         |                      |                                 |
|------------------------------------------------------|-------------------------|--------------------|-------------------------|----------------------|---------------------------------|
| Dia.                                                 | Nominal Screw Dia. (in) | Metal Gauge 1 (lb) | Tension (Pull) Lbs 1 pc | Shear Strength (lbs) | Minimum Torsional Strength (Lb) |
| 12<br>5pt.                                           | 0.216                   | .156 in.           | 2550                    | 1885                 | 92                              |
|                                                      |                         | .187 in.           | 3124                    |                      |                                 |
|                                                      |                         | .218 in.           | 3695                    |                      |                                 |
|                                                      |                         | .250 in.           | 3696                    |                      |                                 |

### Ultimate Value Charts

Screws driven into steel were driven with three exposed threads on the off side of the connection, then pulled out with testing machine.

Note that all results were obtained in strict adherence to ASTM test protocol. These ultimate figures are offered only as a guide and are not guaranteed in any way by PrimeSource Building Products. A 4:1 safety ratio is recommended.

### Installation Guidelines

0-1800rpm Screwgun with torque adjustment - Overdriving may result in fastener failure or stripout of the work surface. The fastener is fully seated when the head's bearing surface is flush with the steel.

The fastener must penetrate beyond the metal a minimum of three threads to comply with the code.

**ALL PRIMESOURCE FASTENERS ARE MANUFACTURED IN AN ISO 9002 AND ISO 14001 CERTIFIED AND APPROVED FACTORY TO PRIMESOURCE PERFORMANCE SPECIFICATIONS AND PRINT DRAWINGS.**