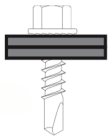
TECHNICAL DATA

HIGH HEX WASHER HEAD SCREW

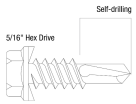


For metal to metal fastening with heavy gauge metal up to 3/8 in. thick with extra strength from high hex head. Commonly used in HVAC ductwork assembly and sheet metal construction. Zinc plated for enhanced corrosion resistance.



5/16" High HWH

PRODUCT SPECIFICATIONS



Part #	Dia.	Length	TPI	Bulk Qty	Finish	Head Dia.	Corrosion	Point	Drill Capacity
HH1034	10	3/4 in.	16	6.5M	Zinc	10.8-11.2 mm	24 hr. min. B-117	#3 Drill Point	110"-.175"

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

High Hex Washer Head 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 (in-lbs)
10	0.190	25			61
		22		602	
		20	389	811	
		18	554	1223	
		16	727	1492	
		14	1050	1545	
		12	1216	1650	

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 Screw gun 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 9001 CERTIFIED AND APPROVED FACTORY TO PRIMESOURCE® PERFORMANCE SPECIFICATIONS AND PRINT DRAWINGS.

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SAFETY DATA SHEET

These products do not meet the criteria of hazardous chemicals as defined by the Federal Occupational Safety and Health Hazard Communication Standard 29CFR 1910.1200(c). This form is provided solely as general information and should not be construed as a determination that the product(s) are hazardous chemical(s).

GENERAL INFORMATION

Dated: October 24, 2024

Distributor: Pro-Twist brand
PrimeSource Building Products
1321 Greenway Drive
Irving, TX 750335

PRODUCT INFORMATION

Product Name: Metal Fasteners (Screws, Nails, Collated Screw, etc.)

TYPICAL CHEMICAL COMPOSITION

Substrate: Various Ferrous Metals

Coatings: Various; Zinc Plating, Phosphates, Organic

PHYSICAL DATA

Physical State:	Solid	**Specific Gravity:**	7.6 – 7.8
Appearance:	Various Shapes	**Vapor Pressure:**	N/A
Boiling Point:	N/A	**Vapor Density:**	N/A
Melting Point:	Greater than 1400°F	**Evaporation Rate:**	N/A
Solubility in Water:	N/A	**Volatile by Volume:**	N/A
PH:	N/A	**Odor:**	None

FIRE AND EXPLOSION HAZARD DATA

Not Applicable

REACTIVITY DATA

Stability:	Stable
Hazardous Decomposition Products:	CO_2 and/or CO
Incompatibility – Materials to Avoid:	Strong Mineral Acids, Alkali or Oxidizers
Polymerization:	Will not occur

HEALTH HAZARD DATA

Health Effects/Signs & Symptoms:	N/A
Usual Route(s) of Entry:	Sharp metal fastener may cut skin
Medical Conditions Possibly Aggravated:	None Known
Carcinogen Information:	None Known

Eye Contact:	Not anticipated to pose a significant eye hazard
Skin Contact:	Not anticipated to pose a significant skin hazard
Ingestion:	Not anticipated to pose a significant ingestion hazard
Inhalation:	Not considered an inhalation hazard

OCCUPATIONAL EXPOSURE CONTROL MEASURES

Eye Protection:	Safety glasses recommended
Skin Protection:	Gloves recommended
Ingestion:	Never place fasteners in mouth

SPILL, LEAK AND DISPOSAL INFORMATION

Procedures to Follow if Material is Released or Spilled:	N/A
Waste Disposal Method(s):	Any excess product can be recycled for further use or disposed of by methods which are in accordance with local, state and federal regulations.

ADDITIONAL OR MISCELLANEOUS INFORMATION

After working with coated materials, wash hands and face before eating, drinking or smoking.

Characteristics not covered on the SDS are not applicable to this material at this time.