

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.



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 qun 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.





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

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

FIRE AND EXPLOSION HAZARD DATA

Not Applicable

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REACTIVITY DATA

Stability: Stable

Hazardous Decomposition Products: CO₂ 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.

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