

# PRODUCT DATA

## BDX Metal SDS Hex Head and Washer

Applications	
•	Metal to metal fixing
•	Wall cladding
•	Sheds
•	Fencing and gates
•	Signage
•	Valley fixing for all roofing profiles
•	Hinges into metal posts, gates, and doors
•	Stitching for flashing



<b>Material</b>	C1022 Hardened
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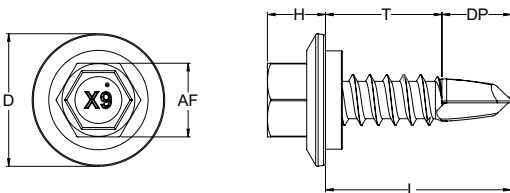
## 12 Gauge Hex Head

<b>Finish</b>	X9 Coating
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X9 ProteXion coating is suitable for ISO 9223 Category 4 environments.



### Dimensions



Refer to our documents online for a complete list of available Colorbond® colours.

[hobson.com.au](http://hobson.com.au)

Part	QFind	Gauge	TPI	Length	Thread Length	Drill Point Length	Head Height	Head ø	Drive Size
				L (mm)	T (mm)	DP (mm)	H (mm)	D (mm)	AF (inch)
T9PM9SH1214020	QH285	12	14	20	12.5	7.5	6.5	14	HEX 5/16
T9PM9SH1214035	QH290	12	14	35	27.5	7.5	6.5	14	HEX 5/16
T9PM9SH1214045	QH300	12	14	45	37.5	7.5	6.5	14	HEX 5/16

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Bolt Tension | Anti-Vibration | Product Reliability | Traceability

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### Pullout Values

Plate (Purlin)	Metal Plate Thickness	<sup>1</sup> Mean Load	<sup>2</sup> Characteristic Load	<sup>3</sup> Working Load
	(mm)	(N)	(N)	(N)
G2	1.1	1650	1400	550
G450	2.0	5000	4650	1850
G450	2.5	6900	6200	2500
G450	3.8	10350	9600	3850

### Mechanical Properties

Torsional Strength	<sup>1</sup> Mean Tensile Strength	<sup>1</sup> Mean Shear Strength	<sup>2</sup> Characteristic Tensile Strength	<sup>2</sup> Characteristic Shear Strength
(Nm)	(N)	(N)	(N)	(N)
10.9	16450	9900	13800	8300

### Drill Point Test

Plate (Purlin)	Metal Plate Thickness	Load	Drill Speed	Drill Time	Drill Time
	(mm)	(kg)	(RPM)	(Max. individual) Seconds	(Max. average) Seconds
G450	2.0	18	2200	5.5	4

Note: 1000N = 1kN

<sup>1</sup> Mean Load/Strength is the average ultimate strength of samples tested.

<sup>2</sup> Characteristic Load/Strength: 95% of these screws are expected to have a strength greater than the loads shown.

<sup>3</sup> Working Load is the governing minimum allowable load obtained by comparing relevant concrete and steel working loads. Factor of Safety (FOS=2.5 for steel, FOS=2.5 for timber and FOS=3.0 for concrete) are already included.

All values are obtained under laboratory conditions. Safety factors should be considered for design purposes. Actual pullout loads may differ slightly depending on certain properties of the base material.

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### Installation

1. Use a cordless screw gun set between 2,200–3,000 RPM. Fit the HEX Drive Bit over the screw and place at the fastening position.
2. Apply consistently firm pressure to the screw driver while the screw is drilling.
3. Care should be taken not to over-tighten the screw.

\*Installation with impact drivers not recommended.

### Recommended for use with:

MAGNETIC NUT SETTER S2 ALLOY STEEL BLACK / impaX DRIVE BIT 1/4		
Part	QFind	Length (mm)
TXDIPNSS31045	<b>BA18</b>	45
TXDIPNSS31065	<b>B090</b>	65



Recommended  
HEX 5/16 Magnetic  
Nut Setter

MAGNETIC NUT SETTER S2 ALLOY STEEL BLACK / STANDARD DRIVE BIT 1/4		
Part	QFind	Length (mm)
TXDDPNSS31045	<b>B025</b>	45
TXDDPNSS31065	<b>B050</b>	65
TXDDPNSS31100	<b>B060</b>	100
TXDDPNSS31150	<b>B075</b>	150



Recommended  
HEX 5/16 Magnetic  
Nut Setter

SPRING NUT SETTER S2 ALLOY STEEL BLACK / impaX DRIVE BIT 1/4		
Part	QFind	Length (mm)
TXDIPSS31065	<b>BA48</b>	65
TXDIPSS31150	<b>BA49</b>	150



Recommended  
HEX 5/16 Spring  
Nut Setter

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