

# PRODUCT DATA

## BDX S500 Hex Head and Washer

Applications	
<ul style="list-style-type: none"> <li>• Metal to metal fixing</li> <li>• Thick steel purlins and hot rolled steel</li> <li>• Roofing and walling sheets to hot rolled steel</li> </ul>	

<b>Material</b>	C1022 Hardened
-----------------	----------------

<b>Finish</b>	X9 Coating
---------------	------------

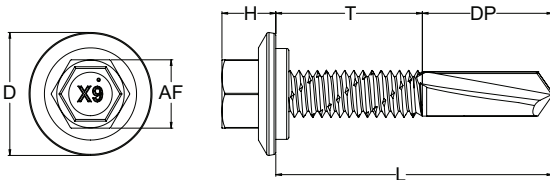
# BDX<sup>®</sup>

## 12 Gauge Hex Head

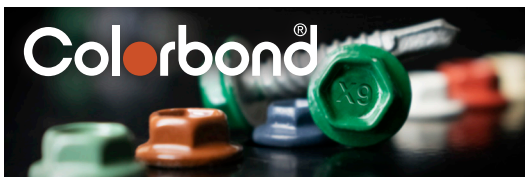
X9 ProteXion coating is suitable for ISO 9223 Category 4 environments.



### Dimensions



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)
T9P59SH1224032	QH486	12	24	32	17	15	6.5	14	HEX 5/16
T9P59SH1224050	QH488	12	24	50	35	15	6.5	14	HEX 5/16
T9P59SH1224065	QH490	12	24	65	50	15	6.5	14	HEX 5/16
T9P59SH1224085	QH489	12	24	85	70	15	6.5	14	HEX 5/16



Refer to our documents online for a complete list of available Colorbond<sup>®</sup> colours.

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

Disclaimer: while every reasonable effort has been made to ensure that this document is correct at the time of printing, Hobson Engineering<sup>®</sup>, its agencies and employees disclaim all liability in respect to anything or the consequences of anything done or omitted regarding the whole or any part of this document. HEC product marking is the manufacturing mark of Hobson Engineering. HEC is a registered trademark of Hobson Engineering.

Bolt Tension | Anti-Vibration | Product Reliability | Traceability

[hobson.com.au](http://hobson.com.au) **QUALITY FASTENERS SINCE 1935**



# PRODUCT DATA

## BDX S500 Hex Head and Washer

### 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)
G450	2	4250	3550	1400
G2	3	5900	5600	2250
HRS	5	14550	13450	5350
HRS	6	17350	16650	6650

### 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)
11.3	17600	10550	17000	10200

### Drill Point Test

Plate (Purlin)	Metal Plate Thickness	Load	Drill Speed	Drill Time	Drill Time
	(mm)	(kg)	(RPM)	(Max. individual) Seconds	(Max. average) Seconds
CRS	8.0	27	2200	10	7

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.

Disclaimer: while every reasonable effort has been made to ensure that this document is correct at the time of printing, Hobson Engineering®, its agencies and employees disclaim all liability in respect to anything or the consequences of anything done or omitted regarding the whole or any part of this document. HEC product marking is the manufacturing mark of Hobson Engineering. HEC is a registered trademark of Hobson Engineering.

Bolt Tension | Anti-Vibration | Product Reliability | Traceability

[hobson.com.au](http://hobson.com.au) **QUALITY FASTENERS SINCE 1935**

# PRODUCT DATA

## BDX S500 Hex Head and Washer

### 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

Disclaimer: while every reasonable effort has been made to ensure that this document is correct at the time of printing, Hobson Engineering®, its agencies and employees disclaim all liability in respect to anything or the consequences of anything done or omitted regarding the whole or any part of this document. HEC product marking is the manufacturing mark of Hobson Engineering. HEC is a registered trademark of Hobson Engineering.