

PRODUCT DATA

BDX s500 Flanged Hex Head

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Applications

- Extended drill point and fine pitch (24 TPI) thread allows self-drilling in metal up to 12 mm in thickness
- Fastening insulated roofing panels to steel
- Crest fixing
- Suitable for all roofing profiles
- Metal to metal fixing
- Metal roofing

Material



C1022 Hardened

Finish



X9 Coating

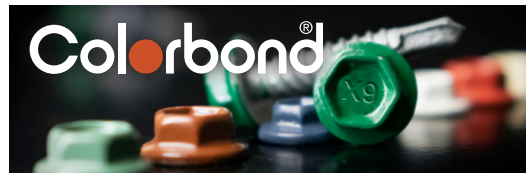
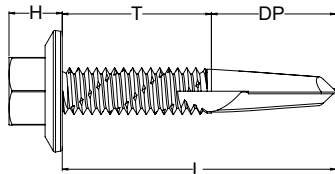
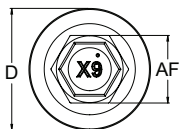
BDX

12 Gauge Hex Head

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.

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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)
T9P59FH1224032	QH480	12	24	32	17	15	6.3	14.5	HEX 5/16
T9P59FH1224038	QH481	12	24	38	23	15	6.3	14.5	HEX 5/16
T9P59FH1224050	QH482	12	24	50	35	15	6.3	14.5	HEX 5/16
T9P59FH1224065	QH484	12	24	65	50	15	6.3	14.5	HEX 5/16
T9P59FH1224085	QH487	12	24	85	70	15	6.3	14.5	HEX 5/16
T9P59FH1224100	QH492	12	24	100	85	15	6.3	14.5	HEX 5/16

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Pullout Values

Plate (Purlin)	Metal Plate Thickness	¹ Mean Load	² Characteristic Load	³ Working Load
	(mm)	(N)	(N)	(N)
3 mm HRS	3	6850	4100	1600
6 mm HRS	6	13195	8350	3340
8 mm HRS	8	15030	8350	3340
12 mm HRS	12	15030	8350	3340

Mechanical Properties

Torsional Strength	¹ Mean Tensile Strength	¹ Mean Shear Strength	² Characteristic Tensile Strength	² 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	27	2200	10	7

Note: 1000N = 1kN

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

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

³ 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	BA18	45
TXDIPNSS31065	B090	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	B025	45
TXDDPNSS31065	B050	65
TXDDPNSS31100	B060	100
TXDDPNSS31150	B075	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	BA48	65
TXDIPSS31150	BA49	150



Recommended
HEX 5/16 Spring
Nut Setter

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