

# PRODUCT DATA

## BDX Metal Hex Head, Washer and XGRiP®

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### Applications

- Crest fixing
- Metal to metal fixing
- Fixing roofing profiles and wall cladding to steel purlins and roof battens
- Metal roofing
- Sheds

### Material

1022

C1022 Hardened

### Finish

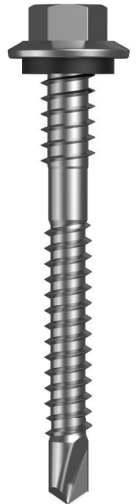
X9

X9 Coating

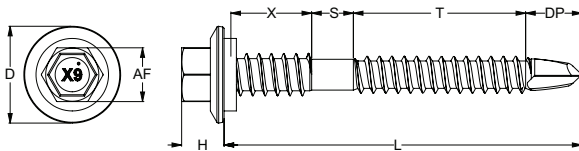

**BDX**


## 12 Gauge Hex Head

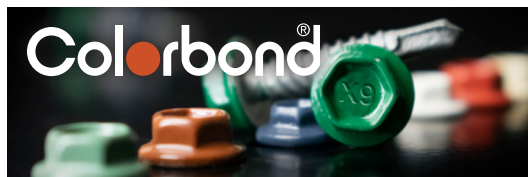
X9 ProteXion coating  
is suitable for **ISO 9223**  
**Category 4** environments.



### Dimensions



| Part           | QFind | Gauge | TPI | Length | Thread Length | Shank Length | Drill Point Length | XGRiP® Thread Length | Head Height | Head ø | Drive Size |
|----------------|-------|-------|-----|--------|---------------|--------------|--------------------|----------------------|-------------|--------|------------|
|                |       |       |     | L (mm) | T (mm)        | S (mm)       | DP (mm)            | X (mm)               | H (mm)      | D (mm) | AF (inch)  |
| T9PM9XH1214037 | QH295 | 12    | 14  | 37     | 18            | 0            | 7.5                | 11.5                 | 6           | 14     | HEX 5/16   |
| T9PM9XH1214043 | QH296 | 12    | 14  | 43     | 21            | 3            | 7.5                | 11.5                 | 6           | 14     | HEX 5/16   |
| T9PM9XH1214053 | QHA40 | 12    | 14  | 53     | 27            | 7            | 7.5                | 11.5                 | 6           | 14     | HEX 5/16   |



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list of available  
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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        | 3.5                       | 3.0                    |

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<br>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<br>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<br>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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