



PRODUCT DATA

Bi-Metal SDS Flanged Hex Head

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Metal to Metal Fixing (SDS) #12-14

Applications

- Ideal for marine and corrosive conditions
- Cladding metal sheets
- Suitable for use with aluminium cladding and framing
- Crest and pan fix

Material



Bi-Metal 316 Stainless

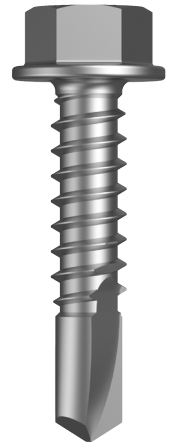
Finish



R1500 Hours Protection

12 Gauge Hex Head

316



Pullout Values

| Plate (Purlin) | Timber Plate Thickness | ¹ Mean Load | ² Characteristic Load | ³ Working Load |
|----------------|------------------------|------------------------|----------------------------------|---------------------------|
| | (mm) | (N) | (N) | (N) |
| G2 | 1.2 | 1400 | 1150 | 450 |
| G550 | 1.5 | 2900 | 2500 | 1000 |
| G450 | 2.0 | 4200 | 3550 | 1400 |
| G450 | 2.5 | 5400 | 4650 | 1850 |
| G2 | 3.0 | 5650 | 5250 | 2100 |

Bi-Fix™

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 |

Mechanical Properties

| Torsional Strength | Head & Shank Bend Angle | ¹ Mean Tensile Strength | ¹ Mean Shear Strength | ² Characteristic Tensile Strength | ² Characteristic Shear Strength |
|--------------------|-------------------------|------------------------------------|----------------------------------|--|--|
| (Nm) | Minimum | (N) | (N) | (N) | (N) |
| 10.9 | 12° | 10850 | 6500 | 8950 | 5350 |

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 using DRILLX product. Safety factors should be considered for design purposes. Actual pullout loads may differ slightly depending on certain properties of the base material.

DRILLX®

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Bolt Tension | Anti-Vibration | Product Reliability | Traceability

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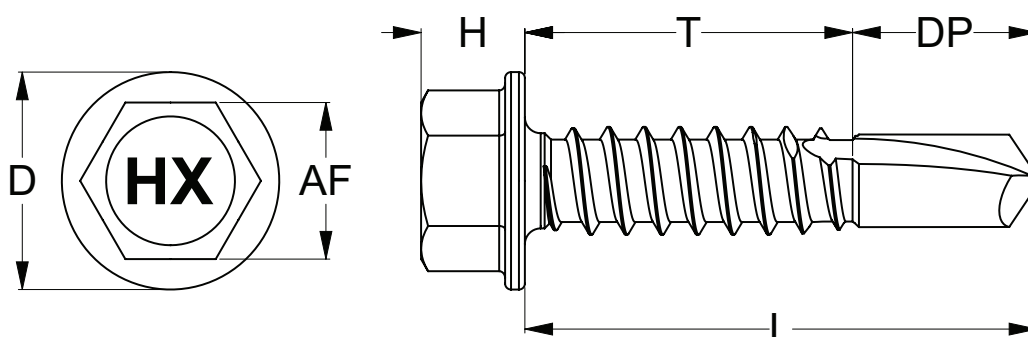


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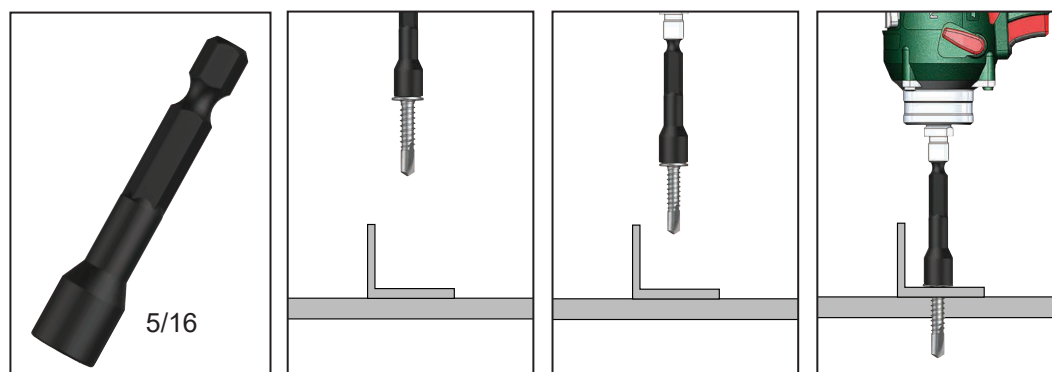
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| Part | QFind | Gauge | TPI | Length | Thread Length | Drill Point Length | Head ø | Head Height | Drive Size |
|---------------|-------------|-------|-----|--------|---------------|--------------------|--------|-------------|------------|
| | | | | L (mm) | T (mm) | DP (mm) | D (mm) | H (mm) | AF (inch) |
| T6MXHH1214025 | QB75 | 12 | 14 | 25 | 16.5 | 8.5 | 11 | 5 | HEX 5/16 |



Installation



Recommended
HEX 5/16 inch Drive Bit:

| Part | QFind | Length (mm) |
|---------------|-------|----------------|
| TXDIPNSS31045 | BA18 | 45 |
| TXDIPNSS31065 | B090 | 65 |

Installation Guide

1. Use a cordless screw driver 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.

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