

# DrillTech

## CSHS - carbon steel heavy section self-drilling screw

### Technical Data Sheet

#### Typical Applications

- Fixing metal sheeting and cladding to heavy steel purlins and sections.
- Fastening liner panels and general components to steel.
- Steel to steel fastening not exposed to weather.

#### Product Information

| Size (mm) | Drill Point | Drilling Capacity (mm) | Head Style | Drive   | Finish |
|-----------|-------------|------------------------|------------|---------|--------|
| 5.5 x L   | 5pt         | 5.0 - 12.0             | Hex        | 8mm A/F | BZP    |

#### Ultimate Pullout Strength, kN

| Diameter (mm) | Drill Point | Nominal Steel Thickness |       |        |        |
|---------------|-------------|-------------------------|-------|--------|--------|
|               |             | 5.0mm                   | 8.0mm | 10.0mm | 12.0mm |
| 5.5           | 5pt         | 12.5                    | 17.2  | 16.3   | 18.0   |

#### Ultimate Shear Strength, kN

| Diameter (mm) | Drill Point | Nominal Steel Thickness |        |
|---------------|-------------|-------------------------|--------|
|               |             | 5.0mm                   | 12.0mm |
| 5.5           | 5pt         | 12.6                    | 11.4   |

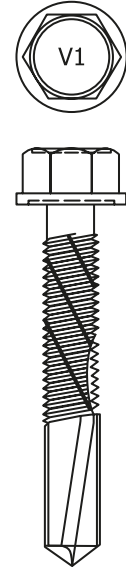
#### Ultimate Pullover Strength, kN

| Diameter (mm) | Drill Point | Nominal Steel Thickness |       |       |
|---------------|-------------|-------------------------|-------|-------|
|               |             | 0.5mm                   | 0.7mm | 1.2mm |
| 5.5           | 5pt         | 3.5                     | 4.8   | 8.1   |

#### Ultimate Mechanical Strength, kN

| Diameter (mm) | Drill Point | Ultimate Tensile Strength (kN) | Ultimate Shear Strength (kN) |
|---------------|-------------|--------------------------------|------------------------------|
| 5.5           | 5pt         | 16.7                           | 19.8                         |

- Pullout tests conducted by VJT Test Laboratory (UKAS Testing 7903) using in-house test method VJTLSOP14 based on the latest CFA guidance note (method available on request).
- Pullover tests conducted following the principles of BS 5427:2016+A1:2017 (Code of practise for the use of profiled sheet for roof and wall cladding on buildings: Annex E). Tests conducted with 16mm washer fitted under screw head.
- Ultimate tensile tests conducted generally in accordance with ISO 16892-1
- Ultimate shear tests conducted generally in accordance with Mil Std 1312-13
- Performance data is unfactored.



#### Features & Benefits

- Drills 5-12mm thick steel
- C1022 case-hardened carbon steel
- Fine thread provides more effective fastening in thicker steel
- Available with a 16mm bonded EPDM washer

#### Installation Tips

- For optimal install use a screwgun with depth setting nosepiece and RPM range of 1500-2200
- Avoid overdriving/overtightening
- Fastener is fully seated when head is in contact with material surface, bonded washers should not compress >66% of original thickness
- A minimum of 3 threads must protrude through the rear of the metal structure

All product specifications and data are subject to change without notice.

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