

- Versatile Design: Compatible with timber, plastics, metals, and composites.
- Superior Thread Design: Instant start with reduced torque and excellent holding power.
- Enhanced Safety: Pozidriv and TORX recess options ensure secure driver engagement.
- 50% Quicker Screw Penetration – No Pre-drilling.

### Technical Specifications

| DETAIL                         | CPF/CPP  | CTP                                   |
|--------------------------------|--|---------------------------------------|
| <b>Designed For</b>            | Timber, plastics, thin sheet metals, and composite materials   |                                       |
| <b>Head Style/Drive Recess</b> | Double Countersunk - Pozidriv  | Double Countersunk - Torx Hexalobular |
| <b>Thread Form/Point</b>       | Single sharp thread - Sharp point  |                                       |
| <b>Effective Thread Length</b> | CPF-Fully threaded / CPP-Partial Thread  | Partial thread                        |
| <b>Material</b>                | Case-hardened carbon steel (AISI C1022)  |                                       |
| <b>Coating</b>                 | Electroplated Zinc Clear/Yellow with trivalent passivation to BS EN ISO 4042 (supplementary lubricant) |                                       |
| <b>Corrosion Protection</b>    | Sacrificial zinc coating   |                                       |
| <b>Laboratory testing</b>      | 240 hr neutral salt-spray (NSS) to BS EN ISO 9227:2022+A1:2024   |                                       |

### Mechanical Data – Average Resistance Characteristics

| NOMINAL SIZE      | RECOMMENDED TENSILE CAPACITY ( $F_{t,swL}$ ) | RECOMMENDED SHEAR LOAD ( $F_{v,swL}$ ) | TENSILE STRENGTH ( $R_m$ ) | RECOMMENDED TORSIONAL CAPACITY ( $F_{t,swL}$ ) |
|-------------------|--|--|----------------------------|--|
| CPF 3.0mm         | 1.07 kN                                      | 0.64 kN                                | 324 Mpa                    | 0.44 Nm  |
| CPF/CTP 3.5mm     | 1.54 kN                                      | 0.92 kN                                | 324 Mpa                    | 0.76 Nm  |
| CPF/CTP 4.0mm     | 1.86 kN                                      | 1.12 kN                                | 324 Mpa                    | 1.01 Nm  |
| CPF/CTP 4.5mm     | 2.28 kN                                      | 1.37 kN                                | 324 Mpa                    | 1.37 Nm  |
| CPF/CPP/CTP 5.0mm | 2.81 kN                                      | 1.68 kN                                | 324 Mpa                    | 1.87 Nm  |
| CPF/CPP/CTP 6.0mm | 4.19 kN                                      | 2.51 kN                                | 324 Mpa                    | 3.42 Nm  |

**NOTE** Correct product selection remains dependent on installation environment, moisture exposure, substrate condition and maintenance regime. Data values are based on single-point tests and calculations and are indicative only. Specifiers, end-users, and third parties are responsible for determining and applying appropriate safety factors. It is recommended that on-site testing is carried out for structural designs or applications.

### Installation Guidance

- **Impact-type electric drills/drivers** are not recommended for fixing universal screws due to the high-torque, percussive action they generate.
- Choose the correct screw length to ensure optimal grip without over-penetration.
- Ensure the appropriate bit is utilised for the application.
- Apply consistent pressure and drive the screw in at a 90° angle to the surface.
- Avoid overdriving to prevent stripping or material damage.
- Avoid overtightening to reduce material cracking or weakening.

### Supporting Documentation

- Declaration of Performance: 004CPR06-03-2018 StarTurn Carbon DoP
- ISO9001-2015-218503 BAB Management Certificate
- ISO14001-2015-241585 BAB Management Certificate

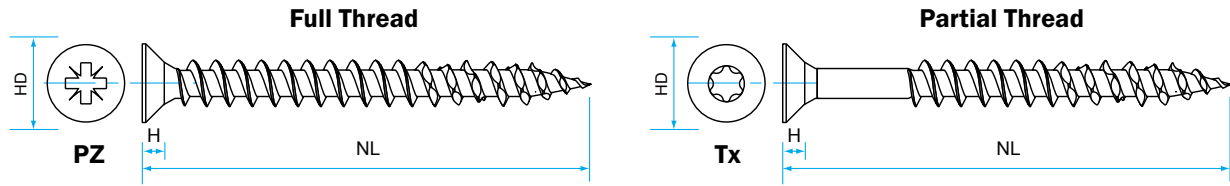
### Referenced Standards

- BS EN ISO 4042:2022
- BS EN ISO 9227:2022+A1:2024
- BS EN BS EN 14592:2022



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### CPF/CPP/CTP Product Range

| PRODUCT CODE        | SIZE – SHANK X NL | RECESS TYPE | HD              | H              | BOX QTY |
|---------------------|-------------------|-------------|-----------------|----------------|---------|
| CPF 3.0 X 12 Y or Z | 3.0mm x 12mm      | PZ1         | 5.80mm ±0.20mm  | 1.93mm ±0.15mm | 200     |
| CPF 3.0 X 16 Y or Z | 3.0mm x 16mm      | PZ1         | 5.80mm ±0.20mm  | 1.93mm ±0.15mm | 200     |
| CPF 3.0 X 20 Y or Z | 3.0mm x 20mm      | PZ1         | 5.80mm ±0.20mm  | 1.93mm ±0.15mm | 200     |
| CPF 3.0 X 25 Y or Z | 3.0mm x 25mm      | PZ1         | 5.80mm ±0.20mm  | 1.93mm ±0.15mm | 200     |
| CPF 3.0 X 30 Y      | 3.0mm x 30mm      | PZ1         | 5.80mm ±0.20mm  | 1.93mm ±0.15mm | 200     |
| CPF 3.0 X 40 Y      | 3.0mm x 40mm      | PZ1         | 5.80mm ±0.20mm  | 1.93mm ±0.15mm | 200     |
| CPF 3.5 X 12 Y or Z | 3.5mm x 12mm      | PZ2         | 6.80mm ±0.25mm  | 2.15mm ±0.15mm | 200     |
| CPF 3.5 X 16 Y or Z | 3.5mm x 16mm      | PZ2         | 6.80mm ±0.25mm  | 2.15mm ±0.15mm | 200     |
| CPF 3.5 X 20 Y or Z | 3.5mm x 20mm      | PZ2         | 6.80mm ±0.25mm  | 2.15mm ±0.15mm | 200     |
| CPF 3.5 X 25 Y or Z | 3.5mm x 25mm      | PZ2         | 6.80mm ±0.25mm  | 2.15mm ±0.15mm | 200     |
| CPF 3.5 X 30 Y or Z | 3.5mm x 30mm      | PZ2         | 6.80mm ±0.25mm  | 2.15mm ±0.15mm | 200     |
| CPF 3.5 X 35 Y or Z | 3.5mm x 35mm      | PZ2         | 6.80mm ±0.25mm  | 2.15mm ±0.15mm | 200     |
| CPF 3.5 X 40 Y or Z | 3.5mm x 40mm      | PZ2         | 6.80mm ±0.25mm  | 2.15mm ±0.15mm | 200     |
| CPF 3.5 X 45 Y      | 3.5mm x 45mm      | PZ2         | 6.80mm ±0.25mm  | 2.15mm ±0.15mm | 200     |
| CPF 3.5 X 50 Y or Z | 3.5mm x 50mm      | PZ2         | 6.80mm ±0.25mm  | 2.15mm ±0.15mm | 200     |
| CPF 4.0 X 16 Y or Z | 4.0mm x 16mm      | PZ2         | 7.75mm ± 0.25mm | 2.69mm ±0.15mm | 200     |
| CPF 4.0 X 20 Z      | 4.0mm x 20mm      | PZ2         | 7.75mm ± 0.25mm | 2.69mm ±0.15mm | 200     |
| CPF 4.0 X 25 Y or Z | 4.0mm x 25mm      | PZ2         | 7.75mm ± 0.25mm | 2.69mm ±0.15mm | 200     |
| CPF 4.0 X 30 Y or Z | 4.0mm x 30mm      | PZ2         | 7.75mm ± 0.25mm | 2.69mm ±0.15mm | 200     |
| CPF 4.0 X 35 Y or Z | 4.0mm x 35mm      | PZ2         | 7.75mm ± 0.25mm | 2.69mm ±0.15mm | 200     |
| CPF 4.0 X 40 Y or Z | 4.0mm x 40mm      | PZ2         | 7.75mm ± 0.25mm | 2.69mm ±0.15mm | 200     |
| CPF 4.0 X 45 Y or Z | 4.0mm x 45mm      | PZ2         | 7.75mm ± 0.25mm | 2.69mm ±0.15mm | 200     |
| CPF 4.0 X 50 Z      | 4.0mm x 50mm      | PZ2         | 7.75mm ± 0.25mm | 2.69mm ±0.15mm | 200     |
| CPF 4.0 X 60 Y or Z | 4.0mm x 60mm      | PZ2         | 7.75mm ± 0.25mm | 2.69mm ±0.15mm | 200     |
| CPF 4.0 X 70 Y or Z | 4.0mm x 70mm      | PZ2         | 7.75mm ± 0.25mm | 2.69mm ±0.15mm | 200     |
| CPF 4.0 X 80 Y or Z | 4.0mm x 80mm      | PZ2         | 7.75mm ± 0.25mm | 2.69mm ±0.15mm | 200     |
| CPF 4.5 X 16 Y      | 4.5mm x 16mm      | PZ2         | 8.75mm ± 0.25mm | 3.25mm ±0.20mm | 200     |
| CPF 4.5 X 25 Y or Z | 4.5mm x 25mm      | PZ2         | 8.75mm ± 0.25mm | 3.25mm ±0.20mm | 200     |
| CPF 4.5 X 30 Y or Z | 4.5mm x 30mm      | PZ2         | 8.75mm ± 0.25mm | 3.25mm ±0.20mm | 200     |
| CPF 4.5 X 35 Y or Z | 4.5mm x 35mm      | PZ2         | 8.75mm ± 0.25mm | 3.25mm ±0.20mm | 200     |
| CPF 4.5 X 40 Y or Z | 4.5mm x 40mm      | PZ2         | 8.75mm ± 0.25mm | 3.25mm ±0.20mm | 200     |
| CPF 4.5 X 45 Y or Z | 4.5mm x 45mm      | PZ2         | 8.75mm ± 0.25mm | 3.25mm ±0.20mm | 200     |
| CPF 4.5 X 50 Y or Z | 4.5mm x 50mm      | PZ2         | 8.75mm ± 0.25mm | 3.25mm ±0.20mm | 200     |
| CPF 4.5 X 60 Y or Z | 4.5mm x 60mm      | PZ2         | 8.75mm ± 0.25mm | 3.25mm ±0.20mm | 200     |
| CPF 4.5 X 70 Y or Z | 4.5mm x 70mm      | PZ2         | 8.75mm ± 0.25mm | 3.25mm ±0.20mm | 200     |



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| PRODUCT CODE<br>(Continued) | SIZE – SHANK X NL | RECESS TYPE | HD              | H              | BOX QTY |
|-----------------------------|-------------------|-------------|-----------------|----------------|---------|
| <b>CPF 4.5 X 80 Y</b>       | 4.5mm x 80mm      | PZ2         | 8.75mm± 0.25mm  | 3.25mm ±0.20mm | 200     |
| <b>CPF 5.0 X 25 Y or Z</b>  | 5.0mm x 25mm      | PZ2         | 9.75mm± 0.25mm  | 3.25mm ±0.20mm | 200     |
| <b>CPF 5.0 X 30 Y or Z</b>  | 5.0mm x 30mm      | PZ2         | 9.75mm± 0.25mm  | 3.25mm ±0.20mm | 200     |
| <b>CPF 5.0 X 35 Y or Z</b>  | 5.0mm x 35mm      | PZ2         | 9.75mm± 0.25mm  | 3.25mm ±0.20mm | 200     |
| <b>CPF 5.0 X 40 Y or Z</b>  | 5.0mm x 40mm      | PZ2         | 9.75mm± 0.25mm  | 3.25mm ±0.20mm | 200     |
| <b>CPF 5.0 X 45 Y or Z</b>  | 5.0mm x 45mm      | PZ2         | 9.75mm± 0.25mm  | 3.25mm ±0.20mm | 200     |
| <b>CPF 5.0 X 50 Y or Z</b>  | 5.0mm x 50mm      | PZ2         | 9.75mm± 0.25mm  | 3.25mm ±0.20mm | 200     |
| <b>CPF 5.0 X 60 Y or Z</b>  | 5.0mm x 60mm      | PZ2         | 9.75mm± 0.25mm  | 3.25mm ±0.20mm | 200     |
| <b>CPF 5.0 X 70 Y or Z</b>  | 5.0mm x 70mm      | PZ2         | 9.75mm± 0.25mm  | 3.25mm ±0.20mm | 200     |
| <b>CPF 5.0 X 80 Y or Z</b>  | 5.0mm x 80mm      | PZ2         | 9.75mm± 0.25mm  | 3.25mm ±0.20mm | 200     |
| <b>CPF 6.0 X 40 Y or Z</b>  | 6.0mm x 40mm      | PZ3         | 11.75mm± 0.25mm | 3.63mm ±0.25mm | 200     |
| <b>CPF 6.0 X 50 Y</b>       | 6.0mm x 50mm      | PZ3         | 11.75mm± 0.25mm | 3.63mm ±0.25mm | 200     |
| <b>CPF 6.0 X 60 Y or Z</b>  | 6.0mm x 60mm      | PZ3         | 11.75mm± 0.25mm | 3.63mm ±0.25mm | 200     |
| <b>CPF 6.0 X 70 Y or Z</b>  | 6.0mm x 70mm      | PZ3         | 11.75mm± 0.25mm | 3.63mm ±0.25mm | 100     |
| <b>CPF 6.0 X 80 Y or Z</b>  | 6.0mm x 80mm      | PZ3         | 11.75mm± 0.25mm | 3.63mm ±0.25mm | 100     |
| <b>CPP 5.0 X 40 Y</b>       | 5.0mm x 40mm      | PZ2         | 9.75mm± 0.25mm  | 3.25mm ±0.20mm | 200     |
| <b>CPP 5.0 X 90 Y or Z</b>  | 5.0mm x 90mm      | PZ2         | 9.75mm± 0.25mm  | 3.25mm ±0.20mm | 100     |
| <b>CPP 5.0 X 100 Y or Z</b> | 5.0mm x 100mm     | PZ2         | 9.75mm± 0.25mm  | 3.25mm ±0.20mm | 100     |
| <b>CPP 6.0 X 100 Y or Z</b> | 6.0mm x 100mm     | PZ3         | 11.75mm± 0.25mm | 3.63mm ±0.25mm | 100     |
| <b>CPP 6.0 X 120 Y or Z</b> | 6.0mm x 120mm     | PZ3         | 11.75mm± 0.25mm | 3.63mm ±0.25mm | 100     |
| <b>CPP 6.0 X 150 Y</b>      | 6.0mm x 120mm     | PZ3         | 11.75mm± 0.25mm | 3.63mm ±0.25mm | 100     |
| <b>CTP 3.5 X 30 Z</b>       | 3.5mm x 30mm      | T15         | 6.80mm ±0.25mm  | 2.15mm ±0.15mm | 200     |
| <b>CTP 3.5 X 35 Z</b>       | 3.5mm x 35mm      | T15         | 6.80mm ±0.25mm  | 2.15mm ±0.15mm | 200     |
| <b>CTP 3.5 X 40 Z</b>       | 3.5mm x 40mm      | T15         | 6.80mm ±0.25mm  | 2.15mm ±0.15mm | 200     |
| <b>CTP 4.0 X 30 Z</b>       | 4.0mm x 30mm      | T15         | 7.75mm± 0.25mm  | 2.69mm ±0.15mm | 200     |
| <b>CTP 4.0 X 40 Z</b>       | 4.0mm x 40mm      | T15         | 7.75mm± 0.25mm  | 2.69mm ±0.15mm | 200     |
| <b>CTP 4.0 X 45 Z</b>       | 4.0mm x 45mm      | T15         | 7.75mm± 0.25mm  | 2.69mm ±0.15mm | 200     |
| <b>CTP 4.0 X 60 Z</b>       | 4.0mm x 60mm      | T15         | 7.75mm± 0.25mm  | 2.69mm ±0.15mm | 200     |
| <b>CTP 4.5 X 40 Z</b>       | 4.5mm x 40mm      | T20         | 8.75mm± 0.25mm  | 3.25mm ±0.20mm | 200     |
| <b>CTP 4.5 X 50 Z</b>       | 4.5mm x 50mm      | T20         | 8.75mm± 0.25mm  | 3.25mm ±0.20mm | 200     |
| <b>CTP 4.5 X 60 Z</b>       | 4.5mm x 60mm      | T20         | 8.75mm± 0.25mm  | 3.25mm ±0.20mm | 200     |
| <b>CTP 5.0 X 90 Z</b>       | 5.0mm x 90mm      | T25         | 9.75mm± 0.25mm  | 3.25mm ±0.20mm | 100     |
| <b>CTP 5.0 X 100 Z</b>      | 5.0mm x 100mm     | T25         | 9.75mm± 0.25mm  | 3.25mm ±0.20mm | 100     |
| <b>CTP 6.0 X 60 Z</b>       | 6.0mm x 60mm      | T30         | 11.75mm± 0.25mm | 3.63mm ±0.25mm | 200     |
| <b>CTP 6.0 X 70 Z</b>       | 6.0mm x 70mm      | T30         | 11.75mm± 0.25mm | 3.63mm ±0.25mm | 200     |
| <b>CTP 6.0 X 160 Z</b>      | 6.0mm x 160mm     | T30         | 11.75mm± 0.25mm | 3.63mm ±0.25mm | 100     |
| <b>CTP 6.0 X 300 Z</b>      | 6.0mm x 300mm     | T30         | 11.75mm± 0.25mm | 3.63mm ±0.25mm | 100     |



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