## **StarTurn**.

#### **Technical Data Sheet**

### **CPF/CPP/CTP Universal Screws**



- 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	СТР		
Designed For	Timber, plastics, thin sheet metals, and composite materials			
Head Style/Drive Recess	Double Countersunk - Pozi-Drive	Double Countersunk - Torx Hexalobular		
Thread Form/Point	Single sharp thread - Sharp Point			
Effective Thread Length	CPF-Fully Threaded / CPP-Partial Thread	Partial Thread		
Material Grade	AISI C1022 / 1028 Carbon Steel - Case Hardened			
Coating	Electroplated Zinc Yellow	Electroplated Zinc Clear		
<b>Corrosion Protection</b>	Grade 3 acc. to BS EN 1670:2007			
Salt Spray Test (SST)	Minimum 96 Hours in accordance with BS EN ISO 9227:2022+A1:2024			

#### **Mechanical Data - Average Resistance Characteristics**

NOMINAL SIZE	RECOMMENDED TENSILE CAPACITY (F <sub>t</sub> swL)	RECOMMENDED SHEAR LOAD (F <sub>v</sub> swL)	TENSILE STRENGTH (RM)	RECOMMENDED TORSIONAL CAPACITY (F1,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** 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. ilt is recommended that on-site testing is carried out for specific 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 1670:2007
- BS EN ISO 9227:2022+A1:2024
- BS EN BS EN 14592:2022





Rapierstar Limited
Star Business Park, Macclesfield, Cheshire SK11 9JA
Tel: +44(0)1260 223311 Fax: +44(0)1260 223399
email: sales@rapierstar.com

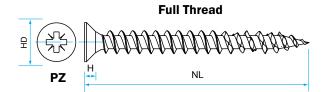
www.rapierstar.com

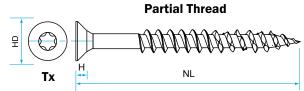




## **Technical Data Sheet**

## **CPF/CPP/CTP Universal Screws**





#### **CPF/CPP/CTP Product Range**

PRODUCT CODE	SIZE – SHANK X NL	RECESS TYPE	HD	н	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 Yor 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





Rapierstar Limited Star Business Park, Macclesfield, Cheshire SK11 9JA Tel: +44(0)1260 223311 Fax: +44(0)1260 223399

email: sales@rapierstar.com www.rapierstar.com





# Technical Data Sheet CPF/CPP/CTP Universal Screws

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





Rapierstar Limited Star Business Park, Macclesfield, Cheshire SK11 9JA Tel: +44(0)1260 223311 Fax: +44(0)1260 223399 email: sales@rapierstar.com



