# **Technical Data Sheet**

# **StarPVCU** CFG Stainless Range Window Screw



- · Comprehensive range available.
- Fast starting, single self tapping spaced thread.
- Suitable for plastic, timber and thin sheet metal.
- Effective for unreinforced PVCU window and door manufacture.
- Ideal for attaching hardware to PVCu profile in corrosive environments.

## **Technical Specifications**

DETAIL	DESCRIPTION			
Designed For	Attaching hardware to unreinforced PVCu and multi-chamber profile			
Head Style/Drive Recess	Countersunk - Phillips PH2 or Cross Combi Square CS			
Thread Form/Point	Single Deep Thread – Fast Starting Gimlet Point			
Effective Thread Length	Fully Threaded			
Material Grade	302 Austinetic Stainless Steel			
Coating	Passivation treatment			
<b>Corrosion Protection</b>	Grade 5 acc. to BS EN 1670:2007			
Salt Spray Test (SST)	Minimum 1000 Hours in accordance with BS EN ISO 9227:2022+A1:2024			

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

NOMINAL SIZE	RECOMMENDED TENSILE CAPACITY (F <sub>t</sub> swL)	RECOMMENDED SHEAR LOAD $(F_{_{\!$	TENSILE STRENGTH (RM)	RECOMMENDED TORSIONAL CAPACITY (F1,swl)
CFG 4.0mm	1.90 kN	1.2 kN	351 MPa	1.05 Nm
CFG 4.3mm	2.14 kN	1.3 kN	351 MPa	1.20 Nm
CFG 4.8mm	3.04 kN	1.8 kN	351 MPa	2.03 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, not exceeding the stated average resistance characteristics or the limitations of the application.

### **Installation Guidance**

For optimal performance and compliance, thorough user-specific testing to validate the product's suitability for the intended design or application is strongly recommended. Such testing should consider variables such as material compatibility, load requirements, environmental conditions, and installation methods.

- Impact-type electric drills/drivers are not recommended for fixing screws into PVCu windows and doors due to the high-torque, percussive action they generate.
- Percussive action can cause material micro-cracks or stress fractures.
- Excessive torque can strip screw threads or damage the PVCu material, reducing joint integrity.
- Inconsistent torque application results in uneven or insecure screw installation, weakening the fixing.
- High-speed impacts can wear away protective surfaces, increasing the risk of corrosion.
- Controlled torque screwdrivers or drills with torque-limiting settings are recommended for optimal performance and durability.

Rapierstar disclaims any liability for misuse, improper installation, or failure to adhere to recommended practices and local building regulations. Additionally, all installations must comply with relevant standards and codes specific to the application, including (but not limited to) those pertaining to safety, structural integrity, and environmental considerations.





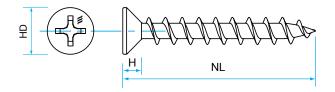
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# **CFG Stainless Steel Product Range**

PRODUCT CODE	SIZE – SHANK X NL	HD	н	BOX QUANTITY
CFG 4.0 X 25 S	4.0mm x 25.0mm	6.75mm± 0.25mm	2.0mm	1000
CFG 4.3 X 16 S	4.3mm x 16.0mm	7.25mm± 0.25mm	2.8mm	1000
CFG 4.3 X 20 S or CS	4.3mm x 20.0mm	7.25mm± 0.25mm	2.8mm	1000
CFG 4.3 X 22 S	4.3mm x 22.0mm	7.25mm± 0.25mm	2.8mm	1000
CFG 4.3 X 25 S or CS	4.3mm x 25.0mm	7.25mm± 0.25mm	2.8mm	1000
CFG 4.3 X 30 S or CS	4.3mm x 30.0mm	7.25mm± 0.25mm	2.8mm	1000
CFG 4.3 X 35 S	4.3mm x 35.0mm	7.25mm± 0.25mm	2.8mm	1000
CFG 4.3 X 40 S	4.3mm x 40.0mm	7.25mm± 0.25mm	2.8mm	1000
CFG 4.3 X 45 S	4.3mm x 45.0mm	7.25mm± 0.25mm	2.8mm	500
CFG 4.3 X 55 S	4.3mm x 55.0mm	7.25mm± 0.25mm	2.8mm	500
CFG 4.8 X 20 CS	4.8mm x 20.0mm	7.25mm± 0.25mm	2.8mm	1000
CFG 4.8 X 25 S or CS	4.8mm x 25.0mm	7.25mm± 0.25mm	2.8mm	1000
CFG 4.8 X 28 CS	4.8mm x 28.0mm	7.25mm± 0.25mm	2.8mm	1000
CFG 4.8 X 35 S	4.8mm x 35.0mm	7.25mm± 0.25mm	2.8mm	500

# **Supporting Documentation**

- Declaration of Performance: 002CPR04-03-2013-StarPVCU-Stainless-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 14566:2008+A1:2009
- BS 7412:2024





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