

M6.3-13 HEX HEAD VORTEX®



**STAINLESS
STEEL
316**

APPLICATION

Bremick® M6.3-13 Hex Head stainless steel 316 Vortex® screw is designed for crest fixing aluminium roof sheets to aluminium purlins and timber battens.

Available with a 16mm Bonded Washer.

PRODUCT ATTRIBUTES



BF A4 Hex Head provides traceability and offers greater engagement and hex socket stability.

16mm Bonded Washer engineered for a watertight seal.

Finish Stainless Steel 316 suitable for Category CX corrosive environments in accordance with ISO 9223-2012 and AS4312:2019.

Vortex® Point suitable for drilling into timber and thin metal while ensuring maximum pullout strength.

DRILLING & INSTALLATION CAPACITY

Base Materials:

- Timber (JD3 min).
- Aluminium Purlins & Battens 3.0mm BMT 5052-H36 (max).

When fastening to timber, ensure a minimum thread embedment of 25mm. When fastening metal, ensure 3 threads minimum embedment, protrude below battens / purlins.

In cyclonic regions, consult design professionals for fastener spacing.

INSTALLATION INSTRUCTIONS

1. Use a 5/16" Bremick® Hex Socket.
2. Insert the socket into a Power tool and select a drive speed of 1000 to 1500 RPM.
3. Fit the screw into the socket and position the screw point on the crest of the Rib.
4. Commence drilling at "slow speed" to pierce sheeting.
5. Apply firm pressure, drive until the seal seats firmly. Do NOT overdrive.
Reverse screw if washer or roof sheet is deformed from over driving.

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MECHANICAL PROPERTIES

SIZE	Single Shear (kN)	Axial Tensile (kN)	Torsional (Nm)
M6.3-13	7.2	12.4	11.9

PULL OUT VALUES

Mean Ultimate Pull Out Force kN – Aluminium Purlins 5052 H36

SIZE	2.5mm BMT	3.0mm BMT
M6.3-13	3.5	4.9

Mean Ultimate Pull Out Force kN – Aluminium Sheets 5251 H38

SIZE	0.7mm BMT	0.9mm BMT	1.2mm BMT
M6.3-13	0.8	0.95	1.5

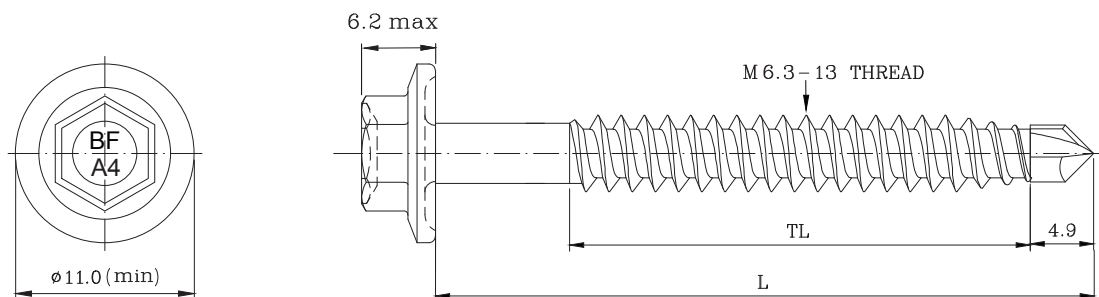
Mean Ultimate Pull Out in F5/JD4 Timber (Radiata Pine)

SIZE	25mm Embedment
M6.3-13	4.3

Mean Ultimate Pull Out in F17/J3 Timber (Hardwood)

SIZE	25mm Embedment
M6.3-13	6.2

Note: The above data represents characteristic capabilities obtained under laboratory conditions and are only applicable to Bremick products. The design professional must apply appropriate safety factors.



RANGE

Product Code	Description	Head Driver	Pack Qty (EA)	Finish	Length L (mm)	Thread Length TL (mm)
SUHC6620504	VORTEX 6.3-13 x 52 HEX +16 ABW	5/16" Hex	500	STAINLESS STEEL 316	52	32.5
SUHC6620804	VORTEX 6.3-13 x 80 HEX +16 ABW	5/16" Hex	500	STAINLESS STEEL 316	80	55
SUHC6620904	VORTEX 6.3-13 x 90 HEX +16 ABW	5/16" Hex	250	STAINLESS STEEL 316	90	65

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