

M5.4-13 HEX HEAD VORTEX MINI™



**REVOLUTIONARY
PROTECTION &
PERFORMANCE**
for corrosive environments

APPLICATION

Bremick® Vortex Mini™ screw is designed for fixing mini orb or corrugated cladding to buildings, fencing and sheds.

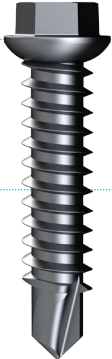
The head is designed to be architectural aesthetic and match the profile of the sheeting ensuring a positive seal without the need of a washer.

The screw can be used in many applications where mini orb or corrugated profile is used.

PRODUCT ATTRIBUTES



B8® Hex Drive provides traceability and offers greater engagement and hex socket stability.



Flush Hex Head provides a sleek, architectural finish.

Finish high corrosion performance with the B8® Coating. Suitable for category 5 corrosive environments as described in ISO 9223-2012 and AS4312-2008.

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

DRILLING & INSTALLATION CAPACITY

Base Materials:

- Timber (JD3 min).
- Metal Battens 0.55mm BMT G550 min.
- Steel Purlins 1.5mm BMT G450 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 1/4" Bremick® Hex Socket.
2. Insert the socket into a Power tool and select a drive speed of 3,000 RPM maximum.
3. Fit the screw into the socket and place the tip of the screw at the fastening position.
4. Apply firm pressure, drive until the screw has fastened. Do NOT overdrive.

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MECHANICAL PROPERTIES

SIZE	Single Shear (kN)	Axial Tensile (kN)	Torsional (Nm)
M5.4-13	6.3	11.1	8.3

PULL OUT VALUES

Mean Ultimate Pull Out Force kN – Steel Purlins

SIZE	1.0mm BMT G450	1.2mm BMT G450	1.5mm BMT G450	1.9mm BMT G450
M5.4-13	3.2	3.7	4.5	6.1

Mean Ultimate Pull Out Force kN – Metal Battens

SIZE	0.42mm BMT G550	0.55mm BMT G450	0.55mm BMT G550	0.75mm BMT G550	0.9mm BMT G550	1.0mm BMT G550	1.2mm BMT G550
M5.4-13	1.2	1.2	1.4	2.3	2.9	3.3	3.3

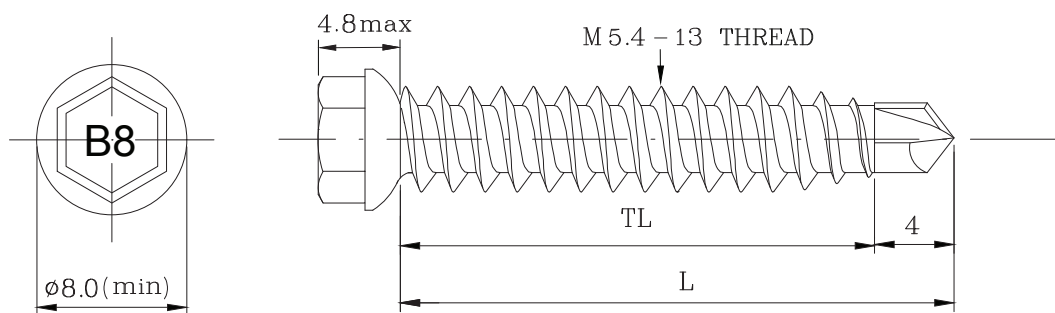
Mean Ultimate Pull Out in F5/JD4 Timber (Radiata Pine)

SIZE	20mm Embedment	25mm Embedment
M5.4-13	2.0	3.0

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

SIZE	20mm Embedment	25mm Embedment
M5.4-13	2.6	3.9

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)
SVMIXC8540282I	VORTEX MINI 5.4-13x 28 HEX	1/4" Hex	1000	B8® COATING	28	19.5
SVMIXC8540282T	VORTEX MINI 5.4-13x 28 HEX	1/4" Hex	100	B8® COATING	28	19.5

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