

12-11 HEX HEAD VORTEX BATTEN FIX™

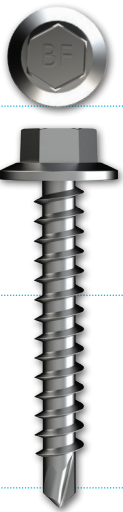


APPLICATION

Bremick® 12-11 x 40 Hex Head Vortex Batten Fix™ screw is designed for fixing Top Hat thin metal battens, pine and hardwood timber battens steel and timber trusses.

The Vortex Batten Fix™ can also be used in steel frames, roof and floor truss assembly.

PRODUCT ATTRIBUTES



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

Finish high corrosion performance of Bremick Class 3 coating in accordance with ISO 9223-2012 and AS4312-2008 to suit the application.

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 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. Apply firm pressure, drive until the seal seats firmly. Do NOT overdrive.

12-11 HEX HEAD VORTEX BATTEN FIX™

MECHANICAL PROPERTIES

SIZE	Single Shear (kN)	Axial Tensile (kN)	Torsional (Nm)
12-11	9.5	15.8	13.3

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
12-11	2.8	3.7	4.8	6.0

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
12-11	0.9	0.9	1.54	2.1	2.5	2.8	3.8

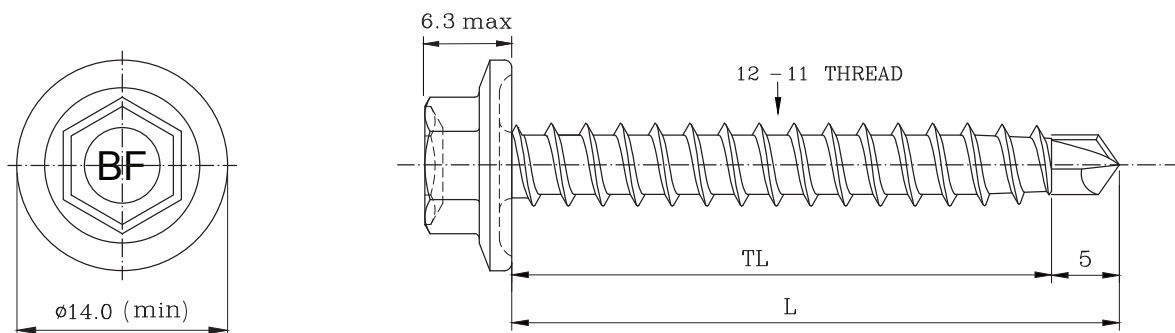
Mean Ultimate Pull Out in F5/JD4 Timber (Radiata Pine)

SIZE	25mm Embedment	30mm Embedment	35mm Embedment	40mm Embedment
12-11	2.6	4.3	6.3	8.3

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

SIZE	25mm Embedment	30mm Embedment	35mm Embedment	40mm Embedment
12-11	4.1	6.5	7.4	8.4

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)
SUHC3120408	VORTEX BATTEN FIX 12-11 X 40 HEX	5/16" Hex	100	OUTDOOR CLASS 3	40	35
SUHC3120402	VORTEX BATTEN FIX 12-11 X 40 HEX	5/16" Hex	1000	OUTDOOR CLASS 3	40	35

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