REGION D CYCLONE ASSEMBLY

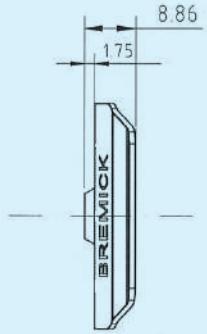
For fastening the crests of roof sheeting in high wind & cyclonic regions.

Load spreading plate assemblies for fastening the crests of roof sheeting in high wind or cyclonic regions.

Cyclones are gale force winds of alternating pressures. This varying load applied to a roof structure often leads to the fatigue-based failures in the roof fixing and sheeting.

Bremick has developed the Region D Cyclone Plate. This plate enables wind loads to be distributed in such a way so as to increase the capacity of the interaction of the fasteners assembly with the roofing profile.

Furthermore, the large Deks sealing washers underneath the Region D cyclone plate ensures optimum water tightness.



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REVOLUTIONARY PROTECTION & PERFORMANCE
for corrosive environments

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REGION D CYCLONE ASSEMBLY

Bremick's profiled washer has been tested in combination with the SDM, Type 17 and Vortex screws into steel purlins, top hats and timber supports.

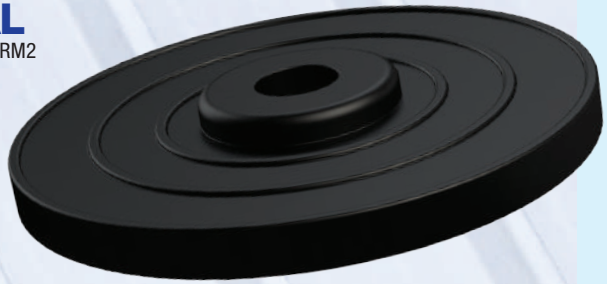
All tests have been undertaken at the NATA registered Cyclone Testing Station (CTS) at James Cook University. All tests were subjected to the Low-High-Low test regime detailed in the National Construction Codes BCA Vol. 2 Pt 3.10.1 via the CTS's direct pressure box. Capacities achieved from those testings are detailed below:

NB: Region D is the classification of the most severe cyclonic zones in Australia, with wind speeds in excess of 300km/hr*'.

*Consult with your engineer to ensure this product is suitable for your project.

REGION D CYCLONE SEAL

SEALC14TRM2



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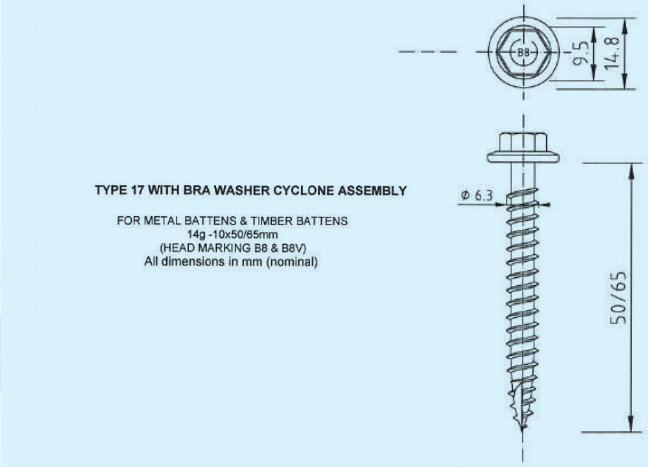

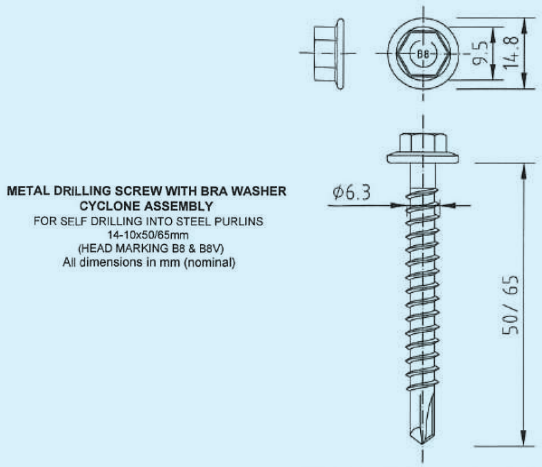

Plate Material: 1.00mm bmt G300/AZ150 Coated Plates

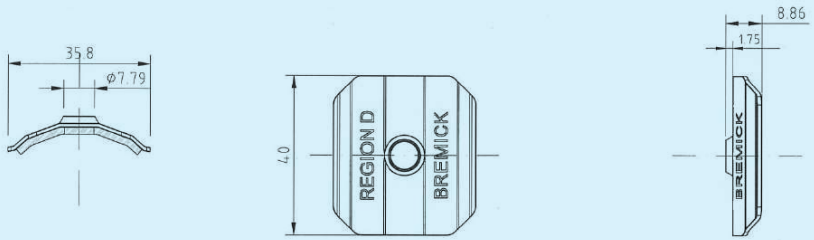

Table 1: Region D Cyclone Plate Design Capacity

Fastener	Sheet Type	Sheet Gauge (mm)	Support	Screw Pitch (mm)	Maximum Cladding Span (mm)	Design Capacity	
						Pressure (kPa)	Pull Out (kN)
SDM 14-10 x 55 Hex	Rib/pan	0.42	1.5mm steel purlin	190	900	7.24	1.36
		0.48				7.97	1.50
Type 17 14-10 x 65		0.42	MGP 10			7.24	1.36
		0.48				7.97	1.50
Vortex 6.2mm x 65		0.42/0.48	0.75mm steel batten			5.42	1.02
SDM 14-10 x 55 Hex	Corrugated	0.42	1.5mm steel purlin	152		7.75	1.46
		0.48				7.75	1.46
Type 17 14-10 x 65		0.42	MGP 10			7.75	1.46
		0.48				7.75	1.46
Vortex 6.2mm x 55		0.42/0.48	0.75mm steel batten			5.42	0.82

Test Certificates

Cyclone Testing Station James Cook University Report No. TS1177, Cyclic Simulated Wind Load Strength Testing of Roofing Screw and Plate Assemblies for Roofing Applications, 11 June 2020

*Design Engineers Certification

Name: LEO NOICOS
Registration Number: EA ID: 70762
Date: 20/07/2021
Signature:

*registered as a structural engineer in Ausralia

*Certifying Engineers Certification

Name: RACHAEL ZEUNER
NT Registration Number: 309710ES
Date: 20/7/2021
Signature: RZeuner

**registered as a structural engineer in the Northern Territory