



High Wind Velocities

The northern coastlines of Australia are frequently battered by high winds and cyclones during the mid to late summer season and the most vulnerable part of any structure is the roof.

The suction forces created on the downwind side of the roof rise and fall as the wind gusts and then lulls and this places fatigue stresses on the roof connection. If insufficient retention of the roof exists, fatigue failures occur and the roof will begin to separate. Once the roof is gone there is little chance the rest of the building will survive.

The greatest influences on the retention of any roof are effective reinforcing plates under the heads of the roofing screws.

Corri-Lok®

Corri-Lok® Corrugated Cyclone Assembly is your roofs best protection against high winds and cyclones! Two years of design, development and testing from Buildex has produced Corri-Lok®, an all-new cyclone assembly for corrugated roofing profiles.

The special patented protected feature of Corri-Lok® overcomes the problems associated with conventional cyclone plates. Corri-Lok® aligns to the roofing profile, even when installed off-centre. This evenly spreads the up-force load across the surface of the plate during high winds, eliminating the problem of single point contact found with conventional cyclone plates. Hence, Corri-Lok® significantly improves the roofs holding capability.

Features & Benefits

- Improved roof holding capability
- Quick and easy to install
- Tested by the James Cook University Cyclone Testing Station
- Provides a neater roof appearance
- Twin EPDM seals reduce water entry
- Less likely to trap swarf and dirt beneath the plate, reducing the threat of corrosion
- Head painted to match colour of roof profile
- Cyclone Assembly available as a Type 17, Metal Tekes or Metal Batten Tekes
- Available in ZINCALUME® Class 3 or ZACS 4 coated Class 4 anti-corrosive coatings.



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Square-Rib Roofing Cyclone Assembly

Square-Lok® has a large contact area with the roofing profile and self-aligns with the roofing profile, even when installed off centre. This spreads the up-force load from heavy winds evenly across the surface of the cyclone plate. It eliminates the problems of chafing and small contact area of conventional bonded washers systems.

Advantages include:

- Significantly improves the roof-holding capability
- Quicker and easier to install
- Self-aligns to the surface of the roof sheeting
- Tested and passed by the James Cook University Cyclone Testing Station
- Includes a double washer system, an upper and lower EPDM Seal preventing water entry between the screw head, cyclone plate and roofing profile
- Provides a neater, more aesthetic roof appearance
- ColorMatch® painted to match the colour of the roofing profile

The James Cook University, Cycle Structural Testing Station in report TS570, has tested Square-Lok®. Cyclic fatigue load trials were performed at 10,000 cycles as described in clause 3b of the Northern Territory BCA appendix. It has successfully completed the required 10,000 load cycles. The roofing resisted the proof load, with some evidence of cracking observed from the fixing locations.

The Square-Lok® Square Rib roofing cyclone assembly is available as:

- 14-10 x 65mm HWH Type 17
- 14-10 x 75mm HWH Type 17
- 14-10 x 50mm HWH Metal Tek®
- 15-15 x 55mm HWH Metal Batten Tek®

In a choice of a Class 3 or Class 4 corrosion resistant finish.



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