

TEST SUMMARY SHEET

SHUTTER GARD ALUMINIUM PLANTATION SHUTTERS

STATIC AND CYCLIC WIND LOAD STRENGTH TEST FOR CYCLONE CONDITIONS

This Test Summary Sheet is issued to certify that the **Shutter Gard** Plantation shutters, as described below, were tested for strength with reference to Clause 2.5.5 of *AS/NZS1170.2 Structural Design Actions Part 2: Wind Actions*. The tests were performed to determine Strength Limit State design capacities for these **Shutter Gard** Plantation Shutters to resist applied horizontal wind loading in both non-cyclonic and cyclonic areas.

Description of Plantation Shutter Tested

Product Name: Shutter Gard Plantation Shutter.
Product Description: Plantation Shutter with Shutter Gard system that incorporates stainless steel wires running through Classic 90 Louvre blades
Size of Shutter: 2100 mm overall height x 1000mm overall width.
Fixing details of Shutters: Stiles and rails face fixed to a 50 x 50 x 4 mm Aluminium angle perimeter frame with 10-24 x 25 mm self drilling screws at 300mm maximum centres.

Manufacturer's Details

Name of Manufacturer: Shutters R Us – A Shutter Motion Licensee
Address of Manufacturer: 589 Gardeners Rd Mascot, NSW 2020, Australia

Report and Test Details

Report Details: Cyclone Testing Station Report No. TS600, dated 24 June 2004
Report Name: Static and Cyclic Wind Load Testing of Shutter Gard Plantation Shutter
Static Strength Test: Static pressure test to determine a non-cyclonic wind pressure design strength
Cyclic Strength Test: Product supported the 10,201 cycles of the fatigue loading sequence specified in AS4040.3, as required by Clause 2.5.5 of AS/NZ1170.2

Strength Limit State Design Wind Capacities

Non-Cyclonic Design Capacity: 8.2 kPa (Outwards, suction pressure)
Cyclonic Design Capacity: 7.0 kPa (Outwards, suction pressure)
Wind Classification (as per AS4055): Shutter has sufficient strength for use on the walls of housing that is located in Wind Classification C3 areas

Condition of Use:

1. Shutter design capacities rely on membrane action (provided by tension in the stainless steel wires) to support the applied wind loads. Therefore the shutter system must be well anchored to supports that are strong enough to resist this loading, as noted in Report TS600.
2. Design capacities are only applicable for shutters no larger than the maximum size tested.
3. Refer to Report No.TS600 (contact Shutters R Us) for full details of the shutter system and fixings, test methods and results.

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