



STORMSHIELD SHUTTER SERIES

ROBUST | SOLID | SECURE

Since its inception our AR400 Slat has consistently proved to be a high quality, robust and well accepted profile so therein provided the perfect solid platform on which to develop the "HDF" profile.

The development and introduction of the High Density Foam (HDF) offers remarkable advantages such as increased strength and security for a variety of applications where there is high wind or high risk. The HDF is injected into the slat profile during the manufacturing roll-forming process, under controlled conditions.

SUPER SHUTTER SERIES

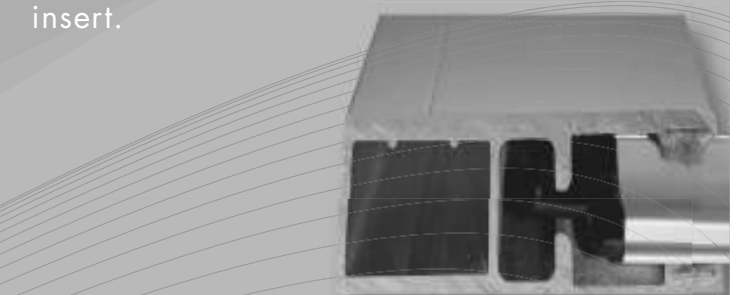
The Super Shutter Series incorporates the HDF slat profile, restrained slat inserts and heavy duty guides.

The increase of density in the HDF profile allows the slat inserts to be actually screwed into the foam with two 25mm long screws rather than being stapled or punched as is the normal procedure with standard slats.

The restrained slat inserts are designed to integrate with the guide profile to lock within a central channel that would require considerable force to disengage. The Restrained Guide has been designed to cope with the added forces that the slat will place on it. The wall thickness and overall engagement has been increased to allow for the restraining insert.

The HDF Super Shutter is available in a number of finishes as listed below:

- White Finish 10.115.101
- Cream Finish 10.115.108
- Sand Finish 10.115.111
- Black Finish 10.115.115
- Deep Ocean Blue 10.115.118
- Woodland 10.115.119



Rollashield[®]
PREMIUM ROLLER SHUTTERS by **OZROLL**

CYCLONE TESTING

The HDF Super Shutter underwent cyclone tests at the Cyclone Testing Station, James Cook University, Queensland and was approved for a Category 3 Cyclone Rating.

The test involves fitting the HDF Super Shutter to an air box facility, which then simulates the enormous wind loads that can be encountered under tropical cyclone conditions.

There are two appropriate Australian Standards that have been satisfied:

- Australian Standard AS / NZS 1170.2 - 2002 Structural Design Action Part 2: Wind Actions was used to determine the cyclonic wind loading for roller shutters fitted to a suburban house with an average roof height of 5m located in a sheltered Terrain Category 3 Region C cyclonic location. The design wind speed is calculated to be 47 metres per second (169.2 kl/h).
- The Australian Standard AS 4040. 3 – 1992 Methods of Testing Sheet Roof and

Wall Cladding, Method 3: Resistance to Wind Pressures for Cyclone Regions was used to an ultimate load pressure of 2.50 kPa, which is needed to fulfil the requirements.

The HDF Super Shutter passed cyclic fatigue loads of 10,200 cycles at incremental increases to the final load, supporting the final single cycle pressure of 2.5kPa for 1 minute. The shutter deflection only increase to a nominal distance of 82mm from the standard rest position during the tests.



FOR FURTHER INFORMATION CONTACT:



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