

ABN: 91 090 863 102 QBSA License

## Ozroll AE401 Extruded Shutters now tested to withstand Bushfire Attack Level (BAL) 40

Back in 2002 Ozroll had approached the CSIRO to determine the benefits of our window roller shutters when subjected to excessive heat throughout a simulated bushfire attack.

The end result was that the shutter was proven to withstand a maximum radiant heat flux of 29kw/m<sup>2</sup> and had still remained operable.

This was documented in more detail on our Information Bulletin 031 and there have also been factual accounts where the Ozroll shutters have been credited with saving homes from burning to the ground when other surrounding properties were not so fortunate.

After the most recent fires in Victoria there were changes made to local council regulations that required new dwellings to comply with specific ratings, in particular within high risk areas.

With this in mind Ozroll again carried out further testing with the CSIRO however on this occasion it was decided to test for a higher rating using our AE401 extruded aluminium shutter.

The test was completed In November 2010 and the conclusion for this test was that the Ozroll window shutter was again proven to withstand the impact of a simulated bushfire attack, however this time with a maximum radiant heat exposure of 40kw/m<sup>2</sup>.

After 60 minutes of severe testing there was no ignition or flaming observed and we are now pleased to confirm that the OZROLL AE401 shutter passed to the level of BAL 40.



### CSIRO – Bushfire Simulation Testing on OZRoll® Window Shutters

It is common knowledge that hot or burning embers entering the home is a major factor for the ignition of the building itself. The above test report proves conclusively that the home stands a better chance in case of bushfire if fitted with OZRoll® roller shutters.

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Performance Criteria as per  
Report Number: FSZ 1444  
Job Number: SZ3303

Date of Issue: 5<sup>th</sup> November 2010  
Tested in compliance with AS 1530.8.1-2007

REPORT No. FSZ 1444

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#### PERFORMANCE

Performance observed in respect of Clause 14.4 of AS1530.8.1-2007 criteria:

Performance Criteria	Time to failure (min)	Position of failure
Formation of through gaps greater than 3-mm	No failure	-
Sustained flaming for 10 seconds on the non-fire side	No failure	-
Flaming on the fire-exposed side at the end of the 60 minutes test period	No failure	-
Radiant heat flux 365-mm from the non-fire side exceeding 15 kW/m <sup>2</sup>	No failure	-
Mean and maximum temperature rises greater than 140 K and 180 K	Not applicable	-
Radiant heat flux 250-mm from the specimen, greater than 3 kW/m <sup>2</sup> between 20 minutes and 60 minutes	No failure	-
Mean and maximum temperature of internal faces exceeding 250°C and 300°C respectively between 20 minutes and 60 minutes after commencement of test	Not applicable	-
<b>Crib class</b>	<b>B</b>	<b>Peak heat flux</b>
		<b>40 kW/m<sup>2</sup></b>

For the purpose of building regulations in Australia, the test specimen achieved a Bushfire Attack Level (BAL) of B40.

This report details methods of construction, the test conditions and the results obtained when the specific element of construction described herein was tested in accordance with AS 1530.8.1-2007.

