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 Australia

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**EWFA Test Report No. EWFA 23442-00d.2 Page 1 of 3**

Test Sponsors	Issue Date	Revision Date
Nova Hardware Group Pty Ltd, 11/899 Wellington Road, Rowville, VIC 3178 and E + Building Products Pty Ltd, Level 26, 44 Market Street, Sydney NSW 2000, Australia	19/04/10	11/05/11
	Validity Date	
	30/04/15	

**The Fire Resistance Performance of Pyropanel Doorsets with nominated variation to the doorset**

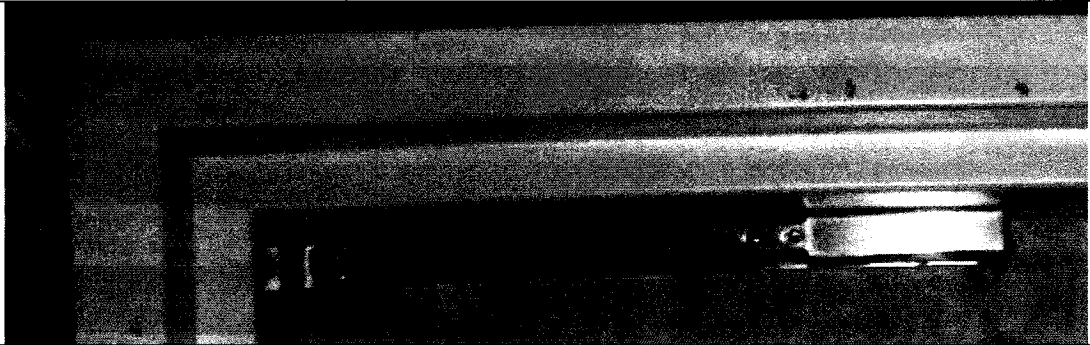
Variations Considered in this Report
Fitting Nova SB250 and SB300 door selectors onto the door sets tested in the referenced tests.

Referenced Test Reports		
Test Report	Doorset Description	Test Standard
FSV 0609	Single Leaf Plywood faced E-plus Doorset nominally 45mm thick	AS 1530.4-1990
SI 2271	Two Leaf Plywood faced E-plus Doorset nominally 45mm thick	AS 1530.4-1990
FSV 0608	Single Leaf Plywood faced E-plus Doorset nominally 35mm thick	AS 1530.4-1990

Additional Supporting Data			
Test Report	Doorset Description	Test Duration	Test Standard
BWA 2344200	Single Leaf E+ Doorset nominally 38 mm thick.	121 minutes	AS 1530.4-2005

A pilot fire resistance test in accordance with Appendix B11 of AS 1530.4 2005 was conducted on a pilot doorset on 1<sup>st</sup> October 2009. It included a Nova SB250 Door Selector fitted to the door leaf.

<b>TESTING AUTHORITY</b>	Exova Warringtonfire Aus Pty Ltd		
<b>Address</b>	PO Box 4282 DANDENONG SOUTH VIC 3164 Unit 2, 409-411 Hammond Road DANDENONG VIC 3175		
<b>Phone / Fax</b>	61 (0)3 9767 1000 / 61 (0)3 9767 1001		
<b>ABN</b>	81 050 241 524		
<b>Email / Home Page</b>	<a href="http://www.exova.com">www.exova.com</a>		
<b>Authorisation</b>	Prepared By:	Revised By:	Reviewed By:
	J. D. Richardson	Mandeep Kamal	K. G. Nicholls

Hardware Description	
<b>Product name(s) and manufacturer:</b>	Nova SB250 Door Selector. Manufacturer details held on confidential file.
<b>Leaf Thickness</b>	38 mm
	
Typical installation of a Nova SB250 Door Selector fitted to the door leaf	

#### Discussion

It is expected if a proposed door selector does not initiate failure of the pilot doorset before failure occurred on the referenced doorsets, then fitting the proposed door selector to the reference doorsets will not be detrimental to the performance of the reference doorsets.

AS 1530.4-2005 states that sustained flaming on the surface of the unexposed face for 10 seconds or longer constitutes integrity failure. During the referenced test EWFA 2344200 no sustained flaming associated with the door selector occurred during the test period of 121 minutes.

Results from Pilot scale test EWFA 2344200 confirm that the Nova SB250 Door Selector does not initiate failure on a representative doorset and is therefore positively assessed on the target doorsets for the test period of 120 minutes integrity.

The proposed construction includes the Nova SB300, which is made from identical materials to the SB250 though the metal arm is 50mm longer than the SB250. It is therefore expected that a similar fire resistance would be achieved if the SB300 was tested in lieu of the SB250.

#### Conclusions

On the basis of the above discussion, it is the opinion of this laboratory that the doorsets listed below would be likely to achieve the FRL listed below if they are fitted with Nova SB250 or SB300 Door Selector on the doorset as described in this assessment report.

This assessment has been prepared in accordance with Section 4.2 of AS 1905.1:2005 and is conditional upon the operational characteristics and materials of the doorset complying with Section 2 of AS 1905.1:2005. The field of application of the door sequencer is defined by the field of application of the doorset the door sequencer is installed upon.

Test Ref	Description	FRL
FSV 0609	Single Leaf Plywood faced E-Plus Doorset nominally 45mm thick	-/120/30
SI 2271	Two Leaf Plywood faced E-Plus Doorset nominally 45mm thick	-/120/30
FSV 0608	Single Leaf Plywood faced E-Plus Doorset nominally 35mm thick	-/120/30

**Conditions/Validity**

The conclusions of this assessment may be used to directly assess the fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all conditions.

Because of the nature of fire resistance testing, and the consequent difficulty in quantifying the uncertainty of measurement, it is not possible to provide a stated degree of accuracy. The inherent variability in test procedures, materials and methods of construction, and installation may lead to variations in performance between elements of similar construction.

The assessment can therefore only relate only to the actual prototype test specimens, testing conditions, and methodology described in the supporting data, and does not imply any performance abilities of constructions of subsequent manufacture.

This assessment is based on information and experience available at the time of preparation. The published procedures for the conduct of tests and the assessment of test results are the subject of constant review and improvement and it is recommended that this report be reviewed by the validity date by Exova Warringtonfire Aus Pty. Ltd.

The information contained in this report shall not be used for the assessment of variations other than those stated in the conclusions above. The assessment is valid provided no modifications are made to the systems detailed in this report. All details of construction should be consistent with the requirements stated in the relevant test reports and all referenced documents.



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**The Fire Resistance Performance of Pyropanel Doorsets with nominated variation to the doorset**

Variations Considered in this Report
Fitting Nova SB250 door selector onto the door sets tested in the referenced tests.

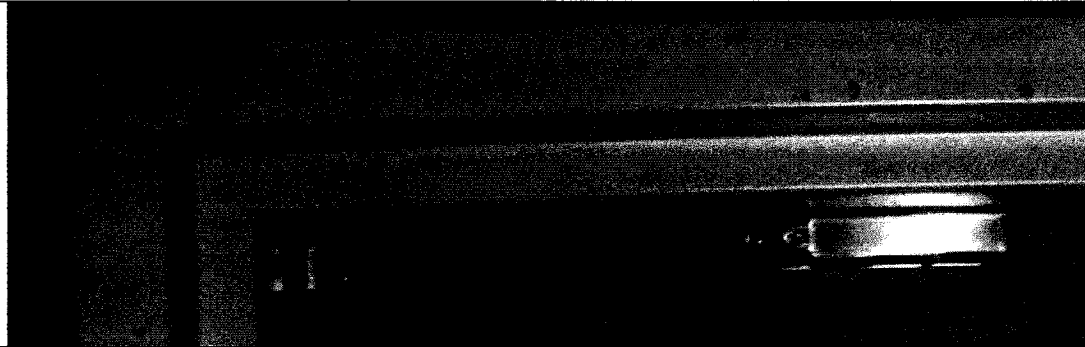
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Additional Supporting Data			
Test Report	Doorset Description	Test Duration	Test Standard
BWA 2344200	Single Leaf E+ Doorset nominally 38 mm thick.	121 minutes	AS 1530.4-2005
A pilot fire resistance test in accordance with Appendix B11 of AS 1530.4 2005 was conducted on a pilot doorset on 1 <sup>st</sup> October 2009. It included a Nova SB250 Door Selector fitted to the door leaf.			

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<b>Authorisation</b>	Prepared By:	Reviewed By:	
	J. D. Richardson	K. G. Nicholls	

### Hardware Description

<b>Product name(s) and manufacturer:</b>	Nova SB250 Door Selector. Manufacturer details held on confidential file.
<b>Leaf Thickness</b>	38 mm



Typical installation of a Nova SB250 Door Selector fitted to the door leaf

### Discussion

It is expected if a proposed door selector does not initiate failure of the pilot doorset before failure occurred on the referenced doorsets, that fitting the proposed door selector to the reference doorsets will not be detrimental to the performance of the reference doorsets.

AS 1530.4-2005 states that sustained flaming on the surface of the unexposed face for 10 seconds or longer constitutes integrity failure. During the referenced test EWFA 2344200 no sustained flaming associated with the door selector occurred during the test period of 121 minutes.

Results from Pilot scale test EWFA 2344200 confirm that the Nova SB250 Door Selector does not initiate failure on a representative doorset and is therefore positively assessed on the target doorsets for the test period of 120 minutes integrity.

### Conclusions

On the basis of the above discussion, it is the opinion of this laboratory that the doorsets listed below would be likely to achieve the FRL listed below if they are fitted with Nova SB250 Door Selector on the doorset as described in this assessment report.

This assessment has been prepared in accordance with Section 4.2 of AS 1905.1:2005 and is conditional upon the operational characteristics and materials of the doorset complying with Section 2 of AS 1905.1:2005. The field of application of the door sequencer is defined by the field of application of the doorset the door sequencer is installed upon.

Test Ref	Description	FRL
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