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EWFA Test Report No. DHAR 2660600a.1 Page 1 of 3

Test Sponsors	Issue Date
Novas Architectual Unit 4, 5 Becon Court, Hallam, VIC 3803 and E+ Building Products Pty Ltd, Unit 11f, Old Pittwater Road Brookvale NSW 2100	31/10/11
	Validity Date
	30/10/16

The Fire Resistance Performance of E-core Doorset with nominated variation

Variations Considered in this Report
 Fitting Novas NH096 and NH087 series strike shields in addition to the furniture tested in the reference tests.

Referenced Test Reports		
Test Report	Doorset Description	Test Standard
FSV 0608	Single leaf Plywood faced E-core doorset nominally 38mm thick	AS 1530.4-1997
FSV 0609	Single leaf Plywood faced E-core Doorset nominally 45mm thick	AS 1530.4-1990
SI 2271	Two Leaf Plywood faced E-core Doorset nominally 45mm thick	AS 1530.4-1990

Additional Supporting Data			
Test Reference	Doorset Description	Test Duration	Test Standard
EWFA 2623501	Single Leaf Plywood faced E-core 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 the 25 th July 2011. It included Novas 6000 Mortice lock with 127mm back set with Novas W series plate hardware nominally 162mm x 162mm (26244mm ²) with a 50 series lever fitted to the door leaf.			

TESTING AUTHORITY	Exova Warringtonfire Aus Pty Ltd		
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Proposed Strike Plates

**NH096 - Strike Plate**

Overlap of leaf edge; 39mm

Length : 275mm

Area of Leaf covered : 10725mm²**NH087 - Strike Plate**

Overlap of leaf edge; 39mm

Length : 275mm

Area of Leaf covered : <10725mm²

Discussion

It is expected if the proposed hardware does not initiate failure of the full scale doorset before failure occurred on the referenced doorsets, then incorporating the proposed hardware 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 2623501 the mortise lock and door facing initiated failure of the doorset at 82 minutes of test period when a small flame emanated from under the plate furniture for longer than 10 seconds.

It is considered that if the combustible plastic facing was not present in the target doorset this flaming failure at 82 minutes would not have occurred.

Results from fire resistance test EWFA 2623501 therefore show that Novas W series plates and design 50 levers can be positively assessed for the test period of 120 minutes integrity.

With respect to the proposed NH096 and NH087 strike plates, it has been confirmed by the report sponsor that the area of the door leaf covered by the proposed door plates is no more than 20% greater than the tested Novas W series plate.

With reference to AS1530.4-2005 clause 7.9.7 (l) iv) the results from Novas W series plates test in EWFA 2623501 may be applied NH096 and NH087 strike plates and are expected to exhibit similar behaviour to the tested Novas W series plate. On that basis, it is considered that adding the NH096 and NH087 strike plates is not likely reduce the integrity performance of the doorset below 120 minutes.

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 additional NH096 and NH087 strike plates on the doorsets 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 assessed hardware is defined by the field of application of the doorset the hardware is installed upon.

Test Ref	Description	FRL
FSV 0608	Single leaf Plywood faced E-core doorset nominally 38mm thick	-/120/30
FSV 0609	Single leaf Plywood faced E-core Doorset nominally 45mm thick	-/120/30
SI 2271	Two Leaf Plywood faced E-core Doorset nominally 45mm 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.