Exova Warringtonfire Aus Pty Ltd
Unit 2, 409-411 Hammond Road
Dandenong, Victoria 3175
Australia

T: +61 (0)2 8270 7600
F: +61 (0)2 9299 6076
W: www.exova.com

Postal Address:
PO Box 4282
Dandenong South, Victoria 3164
Australia

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DHAR Test Assessment No.	DHAR 38835800f.1 Page 1 of 3

Test Sponsors	Issue Date
E Plus Building Products Pty Ltd 85-89 Tulip Street Cheltenham VIC 3192	29/02/2016
	Validity Date
	28/02/2021

The Fire Resistance Performance of E+ Doorsets with inclusion of door drop seal to the Door Leaf

Variations Considered in this Report

Fitting a NOVAS Heavy Duty Face Mounted Threshold Door Bottom Seal into the door frame as an addition to the hardware tested in the reference tests.

Referenced Test Reports

Test Report	Doorset Description	Test Standard
FSV 0609	Single leaf Plywood faced E-core Doorset nominally 48mm thick	AS 1530.4-1990
SI 2271	Two Leaf Plywood faced E-core Doorset nominally 48mm thick	AS 1530.4-1990

Additional Supporting Data

Test Reference	Doorset Description	Test Duration	Test Standard
EWFA 38835800	Single Leaf Plywood faced E-core Doorset nominally 48mm thick.	120 minutes	AS 1530.4-2005

A pilot fire resistance test in accordance with Appendix B11 of AS 1530.4 2005 was conducted on a full scale doorset on the 12th of November 2015. It included a NOVAS Heavy Duty Face Mounted Threshold Door Bottom Seal fitted into the door leaf.

TESTING AUTHORITY	Exova Warringtonfire Aus Pty Ltd	
Address	PO Box 4282 DANDENONG SOUTH VIC 3164 Unit 2, 409-411 Hammond Road DANDENONG VIC 3175	
Phone / Fax	61 (0)3 9767 1000 / 61 (0)3 9767 1001	
ABN	81 050 241 524	
Email / Home Page	www.exova.com	
Authorisation	Prepared By:	Reviewed By:
		
	Anthony Rosamilia	Steven Halliday

Tested Hardware Description

Hinge side

Bottom Edge

Unexposed

Product name: NOVAS Heavy Duty Face Mounted Threshold Door Bottom Seal semi-morticed
Door system properties:
Door leaf thickness: 46mm
Function verification:
50 opening and closing cycle: Completed prior to test
Average door gap clearance: Bottom edge: 5.68mm

Discussion

It is expected that if the proposed NOVAS Heavy Duty Face Mounted Threshold Door Bottom Seal does not initiate failure of the pilot doorset before failure occurred on the referenced doorsets then installing the door drop seals on 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 38835800 the NOVAS Heavy Duty Face Mounted Threshold Door Bottom Seal initiated failure of the doorset at 109 minutes.

Results from Full scale test EWFA 38835800 show that the NOVAS Heavy Duty Face Mounted Threshold Door Bottom Seal is positively assessed for the test periods as indicated below.

Conclusions

On the basis of the above discussion, it is the opinion of this laboratory that the doorsets listed below will achieve the FRL listed below if they are fitted with a NOVAS Heavy Duty Face Mounted Threshold Door Bottom Seal 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 door drop seal is defined by the field of application of the doorset the door drop seal is installed upon.

Test Ref	Description	FRL
FSV 0609	A NOVAS Heavy Duty Face Mounted Threshold Door Bottom Seal fitted into a single leaf Plywood faced E-core doorset nominally 48mm thick	**-/90/30**
SI 2271	NOVAS Heavy Duty Face Mounted Threshold Door Bottom Seals fitted into a two Leaf Plywood faced E-core doorset nominally 48mm thick	**-/90/30**

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.