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**DHAR Test Assessment No. DHAR 39378500b.1 Page 1 of 3**

Test Sponsors	Issue Date
Novas Architectural Unit 4 / 5 Becon Court Hallam, VIC 3803 and Firecore Pty Limited 291 Warringah Road Beacon Hill NSW 2100	29/02/2016
	Validity Date
	28/02/2021

**The Fire Resistance Performance of TVC30 Core Firecore Doorsets with the inclusion of a Drop Seal**

**Variations Considered in this Report**

Fitting a Novas Drop Seal [LY-A08Si(NAMDBS820)] to the door leaf as an addition to the hardware tested in the reference tests.



**Referenced Test Reports**

Test Report	Doorset Description	Test Standard
FSV 1382a	Single Leaf TVC30 Core Firecore Doorset nominally 38 mm thick	AS 1530.4-2005
FSV 1418a	Single Leaf TVC40 Core Firecore Doorset nominally 48 mm thick	AS 1530.4-2005
FSV 1391a	Double Leaf TVC40 Core Firecore Doorset nominally 48mm thick	AS 1530.4-2005



**Additional Supporting Data**

Test Reference	Doorset Description	Test Duration	Test Standard
EWFA 39378500	Single Leaf TVC30 Core Doorset nominally 38mm 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 pilot scale doorset on the 11<sup>st</sup> of December 2015; it included a Novas Drop Seal [LY-A08Si(NAMDBS820)] fitted into the door leaf.

<b>TESTING AUTHORITY</b>	Exova Warringtonfire Aus Pty Ltd		
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<b>Authorisation</b>	Prepared By:	Reviewed By:	
			
	Anthony Rosamilia	Steven Halliday	

## Tested Hardware Description

	
Bottom Side and Open Edge	Hinge Edge (plastic removed for test)
<p><b>Product name:</b> Novas Drop Seal [LY-A08Si(NAMDBS820)]</p> <p><b>Door system properties:</b></p> <p><b>Door leaf thickness:</b> 38mm</p> <p><b>Function verification:</b></p> <p><b>50 opening and closing cycle:</b> Completed before the test</p> <p><b>Average door gap clearance:</b> Top edge: 3.7mm Open edge: 2.5mm Hinge edge: 3.2mm Bottom Edge: 6.4mm</p>	

## Discussion

It is expected if the proposed Novas Drop Seal [LY-A08Si(NAMDBS820)] does not initiate failure of the pilot doorset before failure occurred on the referenced doorsets, then installing the additional door perimeter seal 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 39378500 Novas Drop Seal [LY-A08Si(NAMDBS820)] did not initiate failure of the doorset for the duration of the test period.

Results from Pilot scale test EWFA 339378500 show that the Novas Drop Seal [LY-A08Si(NAMDBS820)] are 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 Drop Seal [LY-A08Si(NAMDBS820)] 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 drop seal is defined by the field of application of the doorset the drop seal is installed upon.

Test Ref	Description	FRL
FR 3262	A Novas Drop Seal [LY-A08Si(NAMDBS820)] fitted to a Single Leaf TVC30 Core Firecore Doorset nominally 38 mm thick	-/120/30
FR 1618	A Novas Drop Seal [LY-A08Si(NAMDBS820)] fitted to a Single Leaf TVC40 Core Firecore Doorset nominally 48 mm thick	-/120/30
FR 1645	Novas Drop Seals [LY-A08Si(NAMDBS820)] fitted to a Double Leaf TVC40 Core Firecore Doorset nominally 48mm 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.