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DHAR Test Assessment No. DHAR 39995500c.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	24/03/2016
	Validity Date
	24/03/2021

The Fire Resistance Performance of TVC30 Core Firecore Doorsets with inclusion of a bottom drop seal.

Variations Considered in this Report



Fitting a Heavy Duty Semi Morticed Bottom Seal as an addition to the hardware tested in the referenced 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 39995500	Single Leaf TVC30 Core Firecore 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 10 February 2016. It included a Heavy Duty Semi Morticed Bottom Seal fitted into the door leaf.

TESTING AUTHORITY	Exova Warringtonfire Aus Pty Ltd		
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Tested Hardware Description



Unexposed side



Exposed side



Latch Edge

Product name: Heavy Duty Semi Morticed Bottom Seal

Door system properties:

Door leaf thickness: 38.5mm

Location: At the bottom of the door leaf

Function verification:

50 opening and closing cycle: Completed prior to test

Average door gap clearance: Latch edge: 3.2mm
Hinge edge: 2.3mm
Bottom edge: 7.3mm

Discussion

It is expected that if the proposed Heavy Duty Semi Morticed Bottom Seal does not initiate failure of the pilot doorset before failure occurred on the referenced doorsets, then the addition of the Heavy Duty Semi Morticed Bottom 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 39995500 the Heavy Duty Semi Morticed Bottom Seal initiated failure of the doorset at 57 minutes.

Results from the pilot scale test EWFA 39995500 show that the Heavy Duty Semi Morticed 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 Heavy Duty Semi Morticed 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 bottom drop seal is defined by the field of application of the doorset the bottom drop seal is installed upon.

Test Ref	Description	FRL
FSV 1382a	Single Leaf TVC30 Core Firecore Doorset nominally 38 mm thick	-/30/30
FSV 1418a	Single Leaf TVC40 Core Firecore Doorset nominally 48 mm thick	-/30/30
FSV 1391a	Double Leaf TVC40 Core Firecore Doorset nominally 48mm thick	-/30/30

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.