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EWFA Test Report No. EWFA 2660100a.1 Page 1 of 3

Test Sponsors	Issue Date
NOVAS Hardware Pty Ltd P.O. Box 322 Hallam, VIC 3803 and Pyropanel Technologies PTY LTD, Industrial Park 122-124 Beresford Road, Lilydale VIC 3140	3/11/11
	Validity Date
	3/11/16

The Fire Resistance Performance of Pyropanel Doorset with nominated variation

Variations Considered in this Report
 Fitting a Novas 1500BC, 1300BC and 1003BC closer with regular arm in lieu of the closer tested in the reference test.


Referenced Test Reports		
Test Report	Doorset Description	Test Standard
FR 3663	Single Leaf Pyropanel Pandor Doorset nominally 38mm thick	AS 1530.4-1997
FR 2482	Single Leaf Pyropanel Pandor Core Doorset nominally 48 mm thick	BS 476: Part 22: 1987
FR 2485	Pyropanel Pandor Core Double Doorset nominally 48 mm thick	BS 476: Part 22: 1987

Additional Supporting Data			
Test Reference	Doorset Description	Test Duration	Test Standard
EWFA 2660100	Single Leaf Pyropanel Pandor Doorset nominally 38 mm thick	61 minutes	AS 1530.4-2005

A fire resistance test in accordance with Appendix B11 of AS 1530.4 2005 was conducted on a pilot scale doorset on the 28th October 2011, it included a Novas 1500BC closer with regular arm fitted to the door leaf.

TESTING AUTHORITY	Exova Warringtonfire Aus Pty Ltd		
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Hardware Description

Product name(s) and manufacturer:	Model: Novas 1500BC closer with regular arm. Manufacturer details held on confidential file.
Leaf Thickness	38 mm
	
Typical installation of Novas 1500BC closer with regular arm. Unexposed side.	

Discussion

It is expected if a proposed hardware does not initiate failure of the pilot doorset before failure occurred on the referenced doorset, that substituting the proposed hardware with the one tested on the reference doorset will not be detrimental to the performance of the reference doorset.

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 2660100, the Novas 1500BC closer with regular arm did not initiate failure.

With respect to Nova 1300BC and 1000BC closers, it has been confirmed by the report sponsor that the Nova 1300BC and 1000BC closers are manufactured from the same materials, have the same operating mechanism design and use the same hydraulic fluids as the Nova 1500BC closer tested in EWFA 2634600. Also, the proposed location of the closers limit the minimum distance between closer edges and door leaf edges to those which were tested in EWFA 2660100.

With reference to AS1530.4-2005 clause 7.9.7 (e) the results from 1500BC closer test in EWFA 2660100 may be applied to Nova 1300BC and 1000BC closers with regular arms and are expected to exhibit similar behaviour to the tested 1500BC closer. On that basis, it is considered that substituting tested closer with the Nova 1300BC and 1000BC closer on the target doorset FR 3663 and FR2482 is not likely reduce the integrity performance of the doorset below 60 minutes.

Conclusions

On the basis of the above discussion, it is the opinion of this laboratory that the doorset listed below would be likely to achieve the FRL listed below if they are fitted with a Novas 1500BC closer with regular arm 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
FR 3663	Single Leaf Pyropanel Pandor Doorset nominally 38mm thick	-/60/60
FR 2482	Single Leaf Pyropanel Pandor Core Doorset nominally 48 mm thick	Up to -/60/30
FR 2485	Pyropanel Pandor Core Double Doorset nominally 48 mm thick	Up to -/60/30

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.