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DHAR Test Assessment No. DHAR 38835800a.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 nominated variation to the Door lockset

Variations Considered in this Report

Fitting a NOVAS Key 'N' Lever KL200 series Entrance Lockset with a 60mm backset in lieu of the door lockset tested in the referenced 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 Key 'N' Lever KL200 series Entrance Lockset with a 60mm backset fitted into the door leaf.

TESTING AUTHORITY	Exova Warringtonfire Aus Pty Ltd		
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Tested Hardware Description

		
Unexposed side	Latch Edge	Exposed side
<p>Product name: NOVAS Key 'N' Lever KL200 series Entrance Lockset with a 60mm backset</p> <p>Door system properties:</p> <p>Door leaf thickness: 46mm</p> <p>Backset : 60mm</p> <p>Lockset type: Latch bolt</p> <p>Location: Nominal 1032mm from the centre of the lock to the bottom of the door leaf</p> <p>Cut-out size for lockset: 22mm diameter</p> <p>Function verification:</p> <p>Opening force: 1.90N</p> <p>Closing force: 2.45N</p> <p>Latching force: 191.23N</p> <p>50 opening and closing cycle: Completed prior to test</p> <p>Average door gap clearance: Top edge: 2.81mm Open edge: 3.62mm Hinge edge: 1.77mm</p>		

Discussion

It is expected that if the proposed NOVAS Key 'N' Lever KL200 series Entrance Lockset with a 60mm backset does not initiate failure of the pilot doorset before failure occurred on the referenced doorsets, then substituting the proposed door lockset with the one tested 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. AS 1530.4-2005 also states that if a latching mechanism ceasing to be engaged constitutes integrity failure. During the referenced test EWFA 38835800 the NOVAS Key 'N' Lever KL200 series Entrance Lockset with a 60mm backset did not initiate failure of the doorset for the duration of the test period.

Results from Full scale test EWFA 38835800 show that the NOVAS Key 'N' Lever KL200 series Entrance Lockset with a 60mm backset 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 Key 'N' Lever KL200 series Entrance Lockset with a 60mm backset 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 lockset is defined by the field of application of the doorset the door lockset is installed upon.

Test Ref	Description	FRL
FSV 0609	A NOVAS Key 'N' Lever KL200 series Entrance Lockset with a 60mm backset fitted to a single leaf Plywood faced E-core doorset nominally 48mm thick	-/120/30
SI 2271	A NOVAS Key 'N' Lever KL200 series Entrance Lockset with a 60mm backset fitted to a two Leaf Plywood faced E-core 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.