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DHAR Test Assessment No. DHAR 34841900a.3 Page 1 of 3

Test Sponsors	Issue Date
Sieper & Co. Pty Ltd 101-109 Deakin Street Silverwater NSW 1811 and Firecore Pty Limited 291 Warringah Road Beacon Hill NSW 2100	04/08/2015
	Validity Date
	19/06/2020

The Fire Resistance Performance of TVC30 Core Firecore Doorsets with nominated variation to the door closer

Variations Considered in this Report
 Fitting a LOCKTON SGDC 195S CAM Action door closer with track arm in lieu of the door closer 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 34841900	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 doorset on the 15 th of June 2015. It included a LOCKTON SGDC 195S CAM Action door closer with track arm fitted to the door leaf.			

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Hardware Description



The unexposed side

Product name: LOCKTON SGDC 195S CAM Action door closer with track arm

Door system properties

Door leaf thickness: 38mm

Location: 45mm from the top edge and 45mm from the hinge edge

Function verification:

50 opening and closing cycle: Completed before the test

Average door gap clearance: Top edge: 2.1mm

Open edge: 1.9mm

Hinge edge: 1.6mm

Discussion

It is expected if the LOCKTON SGDC 195S CAM Action door closer with track arm does not initiate failure of the pilot doorset before failure occurred on the referenced doorsets, then substituting the proposed door closer 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. During the referenced test EWFA 34841900 the LOCKTON SGDC 195S CAM Action door closer with track arm did not initiate failure of the doorset for the duration of the test period.

Results from Pilot scale test EWFA 34841900 show that the LOCKTON SGDC 195S CAM Action door closer with track arm 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 would be likely to achieve the FRL listed below if they are fitted with LOCKTON SGDC 195S CAM Action door closer with track 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 door closer is defined by the field of application of the doorset the door closer is installed upon.

Test Ref	Description	FRL
FSV 1382a	A LOCKTON SGDC 195S CAM Action door closer with track arm fitted to single leaf TVC30 Core Firecore Doorset nominally 38mm thick	-/120/30
FSV 1418a	A LOCKTON SGDC 195S CAM Action door closer with track arm fitted to single leaf TVC40 Core Firecore Doorset nominally 48mm thick	-/120/30
FSV 1391a	LOCKTON SGDC 195S CAM Action door closers with track arm 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.