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DHAR Test Assessment No. DHAR 42205600b.2 Page 1 of 4

Test Sponsors	Issue Date
Sieper & Co. Pty Ltd 101-109 Deakin Street Silverwater NSW 1811 and E Plus Building Products Pty Ltd 85-89 Tulip Street Cheltenham VIC 3192	18/12/2017
	Validity Date
	5/12/2021

The Fire Resistance Performance of E+ Doorsets with the nominated variation to the Door Closer

Variations Considered in this Report

Fitting a LOCKTON SGDC165S Global Series Adjustable Door Closer to the door leaf in lieu of the door closer tested in the referenced tests. The doorset was tested with the door opening away from the furnace.

Referenced Test Reports

Test Report	Doorset Description	Test Standard
FSV 0609	Single leaf Plywood faced E-core Doorset nominally 45mm thick	AS 1530.4-1997
SI 2271	Two Leaf Plywood faced E-core Doorset nominally 45mm thick	AS 1530.4-1985

Additional Supporting Data

Test Reference	Doorset Description	Test Duration	Test Standard
EWFA 42205600	Single leaf Plywood faced E-core Doorset nominally 45mm thick	121 minutes	AS 1530.4-2014

A fire resistance test in accordance with Appendix B11 of AS 1530.4-2014 was conducted on a full scale doorset on August 3 2016. It included a LOCKTON SGDC165S Global Series Adjustable Door Closer fitted to the door leaf.

TESTING AUTHORITY	Exova Warringtonfire Aus Pty Ltd		
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Tested Hardware Description



Unexposed side



Unexposed side – Bottom View



Uninstalled

Product name: LOCKTON SGDC165S Global Series Adjustable Door Closer

Door system properties:

Door leaf thickness: 45mm

Distance from the door frame: 4mm between the top edge of the frame and top surface of the closer
95mm between the hinge edge of the frame and centre of the closer

Closer configuration: Closer was installed on the unexposed side with door opening out of the furnace

Function verification:

50 opening and closing cycle: Completed prior to test

Average door gap clearance: Top edge: 2.0mm
Latch edge: 1.5mm
Hinge edge: 2.1mm
Bottom edge: 11.8mm

Discussion

It is expected that if the proposed LOCKTON SGDC165S Global Series Adjustable Door Closer does not initiate failure of the full scale 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 1530.4-2014 states that sustained flaming on the surface of the unexposed face for 10 seconds or longer constitutes integrity failure. During the referenced test EWFA 42205600 the LOCKTON SGDC165S Global Series Adjustable Door Closer initiated failure of the doorset at 64 minutes.

AS 1530.4-2014 Appendix F3 also states that for pilot tests, where the purpose of the test is to validate a variation, the direction of the fire exposure and the specimen mounting may differ from the provisions at full scale. In each instance, the mounting and direction may be arranged to gather data needed for the validation, subject to each feature under examination for the least favourable conditions. The doorset was tested with the door opening away from the furnace, the more favourable of the two configurations, rather than the door opening into the furnace, least favourable. Therefore this assessment only covers installations whereby the fire hazard is expected only to occur from the side from which the door opens away from.

Results from full scale test EWFA 42205600 show that the LOCKTON SGDC165S Global Series Adjustable Door Closer 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 LOCKTON SGDC165S Global Series Adjustable Door Closer 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 0609	Single leaf Plywood faced E-core Doorset nominally 45mm thick	-/60/30
SI 2271	Two Leaf Plywood faced E-core Doorset nominally 45mm thick	-/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.