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DHAR Test Assessment No. DHAR 51796100a.1 Page 1 of 3

Test Sponsors	Issue Date
Techtronic Industries Australia Pty Ltd 21 Kangaroo Avenue EASTERN CREEK, NSW 2766 and E Plus Building Products Pty Ltd 85-89 Tulip Street Cheltenham VIC 3192	29/06/2018
	Validity Date
	29/06/2023

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

Variations Considered in this Report
 Fitting a RYOBI D-1200BC Series Door Closer with Standard/Parallel Arm onto the door leaf in lieu of the door closer tested in the referenced tests.

Referenced Test Reports		
Test Report	Doorset Description	Test Standard
FSV 0608	Single leaf Plywood faced E-core mini Doorset nominally 35mm thick	AS 1530.4-1997
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 51796100	Single Leaf Plywood faced E-core Doorset nominally 35mm thick.	121 minutes	AS 1530.4-2014

A pilot scale fire resistance test in accordance with Appendix B11 of AS 1530.4-2014 was conducted on a pilot doorset on the 28 March 2018. It included a RYOBI D-1200BC Series Door Closer with Standard/Parallel Arm fitted onto the door leaf.

TESTING AUTHORITY	Exova Warringtonfire Aus Pty Ltd		
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Tested Hardware Description



Unexposed Side

Product name: RYOBI D-1200BC Series Door Closer with Standard/Parallel Arm

Door system properties:

Door leaf thickness: 38mm

Location: 50mm from the top edge and 20mm from the hinge side

Function verification:

50 opening and closing cycle: Completed prior to test

Average door gap clearance:

Top edge:	2.2mm
Latch edge:	1.6mm
Hinge edge:	1.9mm

Discussion

It is expected that if the proposed RYOBI D-1200BC Series Door Closer with Standard/Parallel Arm does not initiate failure of the pilot doorset before failure occurred on the referenced doorsets, then substituting the door closer in the referenced test with the proposed door closer will not be detrimental to the performance of the referenced 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 51796100 the RYOBI D-1200BC Series Door Closer with Standard/Parallel Arm did not initiate failure of the doorset for the duration of the test period.

Results from pilot scale test EWFA 51796100 show that the RYOBI D-1200BC Series Door Closer with Standard/Parallel 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 will achieve the FRL listed below if they are fitted with a RYOBI D-1200BC Series Door Closer with Standard/Parallel Arm on the doorsets as described in this assessment report.

This assessment has been prepared in accordance with Section 4.5 of AS 1905.1-2015 and is conditional upon the operational characteristics and materials of the doorset complying with Section 2 of AS 1905.1-2015. 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 0608	Single leaf Plywood faced E-core mini Doorset nominally 35mm thick	-/120/30
FSV 0609	Single leaf Plywood faced E-core Doorset nominally 45mm thick	-/120/30
SI 2271	Two Leaf Plywood faced E-core Doorset nominally 45mm 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.