



Door hardware assessment

Test standard: Section 2 and appendix B11 of AS 1530.4:2014

Test sponsor: E+ Building Products Pty Ltd

Product: Talbot Auto Swing 200 Swing Door Operator with standard push arm

Job number: FRT200463

Test date: 8 February 2021 Revision: DHAR1.0

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1. Introduction

This report documents the findings of the assessment to determine the likely fire resistance level (FRL) of a Talbot Auto Swing 200 Swing Door Operator with standard push arm tested in accordance with section 2 and appendix B11 of AS 1530.4:2014.

Warringtonfire performed this assessment at the request of the test sponsors listed in Table 1.

Table 1 Test sponsor details

Test sponsor	Address
E Plus Building Products Pty Ltd	12 -13 Dansu Court Hallam VIC 3803 Australia
Access Control Australia Pty Ltd t/a Talbot Auto Doors	8/63 Norman St Peakhurst NSW 2210 Australia

2. Variations considered in this report

The variations considered in this report are:

Fitting a Talbot Auto Swing 200 Swing Door Operator with standard push arm instead of the door closer tested in the referenced test reports listed in Table 2. Table 3 provides additional supporting information about the doorset.

Table 2 Referenced test reports

Test reference	Doorset description	Test standard
FSV 0609	Single leaf plywood faced E-core doorset, nominally 45 mm thick.	AS 1530.4:1997
SI 2271	Two leaf plywood faced E-core doorset, nominally 45 mm thick.	AS 1530.4:1985

Table 3 Additional supporting information

Test report	Doorset description	Test duration	Test standard
FRT200463 R1.0	Single leaf plywood faced E-core doorset, nominally 45 mm thick.	241 minutes	AS 1530.4:2014
A pilot scale fire resistance test – in accordance with section 2 and appendix B11 of AS 1530.4:2014 – was done on a pilot scale doorset on 8 February 2021 It included a Talbot Auto Swing 200 Swing Door Operator with standard push arm fitted onto the door frame and the push arm fixed to the leaf.			

3. Description of the tested door hardware

Table 4 describes the tested door hardware specimen. This information was provided by the test sponsor and surveyed by Warringtonfire.

Table 5 describes the pre-test functionality test done on the door system.

Photographs of the test specimen are included in Figure 1.

All measurements were done by Warringtonfire – unless indicated otherwise.

Table 4 Specimen description

Item	Description
Door hardware product name	Talbot Auto Swing 200 Swing Door Operator with standard push arm
Door system properties	
Door leaf thickness	48 mm
Location of door closer	On the horizontal member of the door frame

Table 5 Specimen functionality test

Item	Description						
Opening and closing cycles	The doors were subjected to a series of 50 opening and closing cycles of at least 75° for side-hung doorsets - in accordance with clause 7.2.5 of AS 1530.4:2014.						
Average clearance measurement	<table border="1"> <tbody> <tr> <td>Top edge</td> <td>1.0 mm</td> </tr> <tr> <td>Latch edge</td> <td>1.4 mm</td> </tr> <tr> <td>Hinge edge</td> <td>1.5 mm</td> </tr> </tbody> </table>	Top edge	1.0 mm	Latch edge	1.4 mm	Hinge edge	1.5 mm
Top edge	1.0 mm						
Latch edge	1.4 mm						
Hinge edge	1.5 mm						

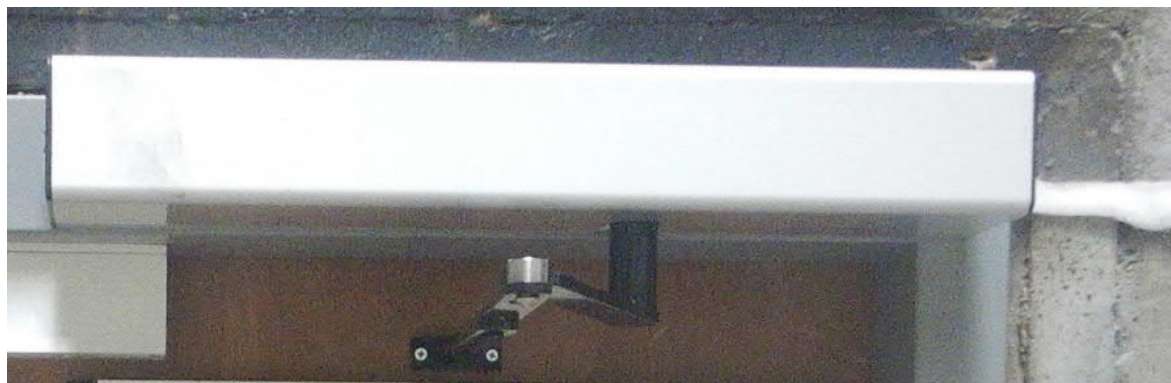


Figure 1 Unexposed view of the tested hardware

4. Discussion

The proposed Talbot Auto Swing 200 Swing Door Operator with standard push arm did not cause the pilot scale doorset to fail before the referenced doorset failed.

Adding the proposed Talbot Auto Swing 200 Swing Door Operator with standard push arm to the referenced doorset should therefore not affect its performance.

AS 1530.4:2014 states that either sustained flaming on the surface of the unexposed face for 10 seconds or longer or ignition of the cotton constitutes integrity failure. During the test – FRT200463 – the Talbot Auto Swing 200 Swing Door Operator with standard push arm did not initiate failure of the doorset for the duration of the test.

5. Conclusions

It is the opinion of Warringtonfire's accredited fire testing laboratory in Australia that the doorsets listed in Table 6 will achieve the FRL shown in Table 6 if they are fitted with Talbot Auto Swing 200 Swing Door Operator with standard push arm on the doorsets. This opinion is based on the pilot scale test done.

This assessment report has been prepared in accordance with section 4.5 of AS 1905.1:2015 and is conditional on the operational characteristics and materials of the doorset complying with section 2 of AS 1905.1:2015. The field of application for the Talbot Auto Swing 200 Swing Door Operator with standard push arm is the same as the field of application for the doorset that the Talbot Auto Swing 200 Swing Door Operator with standard push arm is installed on.


Table 6 Conclusion

Test reference	Description	FRL
FSV 0609	Single leaf plywood faced E-core doorset, nominally 45 mm thick.	-/240/30
SI 2271	Two leaf plywood faced E-core doorset, nominally 45 mm thick.	-/240/30

Conditions and 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 of the result. 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 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 preparing this report. The published procedures for the conduct of tests and the assessment of the test results are the subject of constant review and improvement and it is recommended that this report be reviewed by Warringtonfire before the end of the validity date.
- The information in this report must 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.
- The data, methodologies, calculations and results documented in this report specifically relate to the tested specimen/s and must not be used for any other purpose. This report may only be reproduced in full. Extracts or abridgements must not be published without permission from Warringtonfire.
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Quality management

Revision	Date	Expiry date	Information about the report			
			Description	Initial issue		
DHAR1.0	26 April 2021	26 April 2026		Prepared by	Reviewed by	Authorised by
			Name	Anthony Rosamilia	Patrick Chan	Patrick Chan
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