



Door hardware assessment

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

Report sponsor: Sieper Group and Firecore Pty Ltd

Product: LOCKTON EU6062KD door lever

Report number: 34841900b Reference number: FAS200438

Revision: DHAR4.0



Contents

1.	Introduction	3
2.	Variations considered in this report	3
3.	Description of the tested door hardware	3
4.	Discussion	4
5.	Conclusion	5

Revision: DHAR4.0 Page 2 of 8



1. Introduction

This report documents the findings of the assessment undertaken to determine the likely fire resistance level (FRL) of a Firecore doorset fitted with a LOCKTON EU6062KD door lever, if tested in accordance with section 2 and appendix B11 of AS 1530.4:2014.

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

Table 1 Test sponsor details

Test sponsor	Address
Firecore Pty Ltd	291 Warringah Road Beacon Hill NSW 2100 Australia
Sieper Group	101-109 Deakin Street Silverwater, NSW 2128 Australia

2. Variations considered in this report

The variations considered in this report are:

Fitting a LOCKTON EU6062KD door lever instead of the door lever 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	t reference Doorset description	
FSV 1382a	SV 1382a Single leaf TVC30 core Firecore doorset, nominally 38 mm thick.	
FSV 1418a	Single leaf TVC40 core Firecore doorset, nominally 48 mm thick.	
FSV 1391a	Double leaf TVC40 core Firecore doorset, nominally 48 mm thick.	AS 1530.4:2005

Table 3 Additional supporting information

Test report	Doorset description	Test duration	Test standard
EWFA 34841900 Single leaf TVC30 core Firecore doorset, nominally 38 mm thick.		120 minutes	AS 1530.4:2005
A pilot scale fire resistance test – in accordance with section 2 and appendix B11 of AS 1530.4:2005 – was done on a pilot scale doorset on 15 June 2015. It included a LOCKTON EU6062KD door lever set fitted to the door 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 and Figure 2.

All measurements were done by Warringtonfire – unless indicated otherwise.

Table 4 Specimen description

Item	Description
Door hardware product name	LOCKTON EU6062KD door lever
Door system properties	

Test standard: Section 2 and appendix B11 of AS 1530.4:2014 Job number: FAS200438

Report sponsor: Sieper Group and Firecore Pty Ltd

Revision: DHAR4.0 Page 3 of 8



Item	Description
Door leaf thickness	38 mm
Backset	30 mm
Location of the door lever	550 mm from the top edge

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 and at least 300 mm for sliding doorsets and shutters – in accordance with clause 7.2.5 of AS 1530.4:2005.		
Opening force	0.7 N		
Closing force	0.7 N		
Latching force	26 N		
Average clearance measurement	Top edge	2.1 mm	
	Latch edge	1.9 mm	
Hinge edge		1.6 mm	



Figure 1 Unexposed view of the tested hardware



Figure 2 Exposed view of the tested hardware

4. Discussion

In relation to fire doors, section 4.5 of AS 1905.1:2015 requires some variations from tested prototypes to be subjected to a pilot test. Appendix B11 of AS 1530.4:2014 specifies suitable procedures for undertaking a pilot test for fire doors.

It is expected if the LOCKTON EU6062KD door lever set does not initiate failure of the pilot doorset before failure occurred on the referenced doorsets, then substituting the proposed door lever set with the one tested on the reference doorsets will not be detrimental to the performance of the reference doorsets.

The pilot scale fire resistance test EWFA 34841900 were conducted in accordance with AS 1530.4:2005. The furnace heating regime and the parameters outlining the accuracy of control of the furnace temperature, failure criteria for insulation and integrity in AS 1530.4:2014 and AS 1530.4:2005 are not appreciably different.

AS 1530.4:2014 states that either sustained flaming on the surface of the unexposed face for 10 seconds or longer, ignition of the cotton, or the latching mechanism being disengaged at the end of the test constitutes integrity failure. During the reference test – EWFA 34841900 – the LOCKTON EU6062KD door lever did not initiate failure of the doorset for the duration of the test.



5. Conclusion

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 a LOCKTON EU6062KD door lever on the doorset. 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 door lever is the same as the field of application for the doorset that the door lever is installed on.

Table 6 Conclusion

Test reference	Description	FRL
FSV 1382a	A LOCKTON EU6062KD door lever fitted to a single leaf TVC30 core Firecore doorset, nominally 38 mm thick.	-/120/30
FSV 1418a	A LOCKTON EU6062KD door lever fitted to a single leaf TVC40 core Firecore doorset, nominally 48 mm thick.	-/120/30
FSV 1391a	A LOCKTON EU6062KD door lever fitted to a double leaf TVC40 core Firecore doorset, nominally 48 mm thick.	-/120/30

Revision: DHAR4.0

Page 5 of 8



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
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Quality management

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DHAR 34841900b.2	31 July 2015	19 June 2020	Description	Report updated number.	port updated to change the product reference mber.	
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			Name	Patrick Chan	Chad McLean	
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