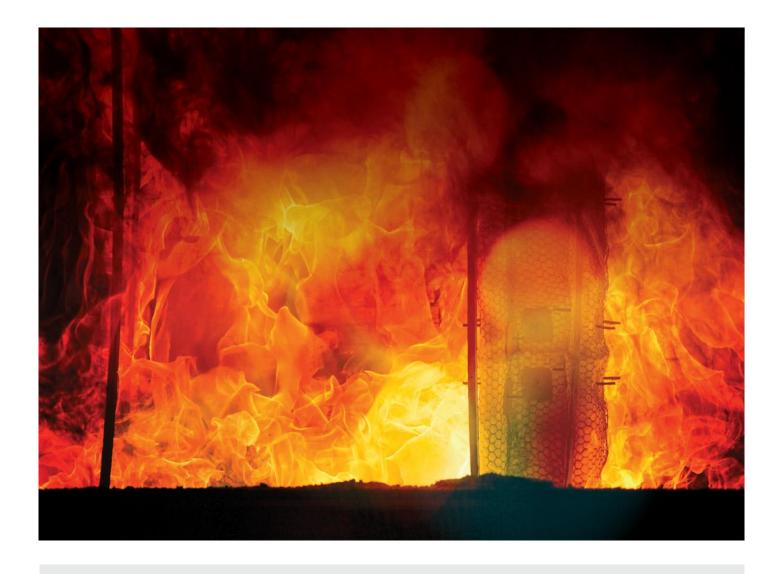
REPORT SPONSOR: MCGRATH LOCKS PTY LTD

# DOOR HARDWARE ASSESSMENT



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

Product: McGrath ML Stafford Smart Lock with the 60/70 mm backset McGrath tubular latch, and

McGrath Scar Plate, over a redundant 54 mm diameter cylindrical hole

Reference number: FRT251978

Test date: 15 August 2025 Revision: DHAR1.0



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### 1.0 Introduction

This report documents the findings of the assessment undertaken to determine the expected fire resistance level (FRL) of a lockset tested in accordance with section 2 and appendix B11 of AS 1530.4:2014<sup>1</sup> and assessed in accordance with AS 1905.1:2015<sup>2</sup>.

Jensen Hughes performed this assessment at the request of the test sponsor listed in Table 1. Table 2 lists the hardware supplier.

Table 1 Test sponsor details

Test sponsor	Address
McGrath Locks Pty Ltd	Unit 4/36 Windorah St
	Stafford QLD 4053
	Australia

#### Table 2 Doorset supplier details

Doorset supplier	Address
Firecore Pty Ltd	291 Warringah Rd Beacon Hill NSW 2100 Australia

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<sup>&</sup>lt;sup>1</sup> Standards Australia, 2014, Methods for fire tests on building materials, components and structures – Part 4: Fire-resistance tests for elements of construction, AS 1530.4:2014, Standards Australia, NSW.

<sup>&</sup>lt;sup>2</sup> Standards Australia, 2015, Components for the protection of openings in fire-resistant walls Fire-resistant doorsets, AS 1905.1:2015, Standards Australia, NSW.

# 2.0 Variations considered in this report

The variations considered in this report are:

Fitting a McGrath ML Stafford Smart Lock with the 60/70 mm backset McGrath tubular latch, and a scar plate installed over an unfilled redundant 54 mm diameter cylindrical lock hole instead of the corresponding hardware installed on the doorsets in the referenced test reports listed in Table 3. Table 4 provides additional supporting information about the tested specimen.

Table 3 Referenced test reports

Test reference	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 48 mm thick.	AS 1530.4:2005

Table 4 Additional supporting information

Test report	Test date	Doorset description	Test duration	Test standard
FRT251978 R1.0	15 August 2025	Single leaf TVC30 core Firecore doorset, nominally 38 mm thick.	121 minutes	AS 1530.4:2014

# 3.0 Description of the tested door hardware

Table 5 describes the tested door hardware. This information was provided by the test sponsor and the hardware was surveyed by Jensen Hughes.

Photographs of the test specimen are included in Figure 1 to Figure 5.

All measurements were done by Jensen Hughes – unless indicated otherwise.

Table 5 Specimen description

Item name	Lockset		
Door hardware product name	McGrath ML Stafford Digital Lock with the 60/70 mm backset McGrath tubular latch and McGrath Scar Plate		
Manufacturer/supplier	McGrath Locks Pty Ltd		
Latch material	Latch bolt	Stainless steel	
	Cover plate	Stainless steel	
	Retainer plate	Stainless steel	
	Strike plate	Stainless steel	
	Latch body material	Steel and stainless steel	
Lock type	Tubular latch		
Lock details	Cut out	As shown in Figure 5 and to fit the latch	
	Latchset body	79 mm × Ø 22 mm	
	Cover plate	57 mm × 25 mm × 1.2 mm	
	Strike plate	68 mm × 39 mm × 1.1 mm	
	Retainer plate	55 mm × 24 mm × 0.7 mm	
	Backset	70 mm	
	Throw	12 mm	
Furniture material	Body	Stainless steel, steel, rubber gasket, plastic, electronic parts, wiring and batteries.	
	Lever	Aluminium Alloy	
Furniture size	Body	260 mm × 45 mm × 22 mm	
	Lever	133 mm × 22 mm × 20 mm	
Scar plate	Size	296 mm × 68 mm × 2 mm	
	Material	Stainless steel	
Installation	An unfilled 54 mm diameter cylindrical hole was cut out in the door leaf as shown in Figure 5 to represent a preexisting redundant hole.  The scar plate was installed to cover the cut-out hole in the door leaf, where the bottom of the scar plate was 130 mm from the bottom of the door leaf.  The centre of the lockset spindle was located 245 mm from the bottom of the door leaf.  Note: The key was removed from the lockset prior to testing.		
Door leaf thickness	37 mm		





Figure 1 Unexposed side view of the tested hardware Figure 2 Exposed side view of the tested hardware





Figure 3 Latch edge side view of the tested hardware Figure 4 Scar plate preinstallation



Figure 5 Hole cutout

#### 4.0 Assessment

Section 4 of AS 1905.1:2015 requires some variations from tested prototypes to be subjected to a pilot scale test for assignment of FRL. As such, in addition to the full-scale tests listed in Table 3, a pilot scale test listed in Table 4 forms the basis of this assessment.

A pilot fire resistance test – in accordance with section 2 and Appendix B11 of AS 1530.4:2014 – was done on a pilot doorset under the test reference – FRT251978. It included a lockset fitted onto the door leaf.

AS 1530.4:2014 states that either sustained flaming on the surface of the unexposed face for 10 seconds or longer, ignition of a cotton pad, gap gauge failure or the latching mechanism being disengaged at the end of the test constitute integrity failure. During the test – FRT251978 – the lockset did not initiate failure of the doorset for the duration of the test.

As the proposed lockset did not cause failure in FRT251978, then substituting the proposed hardware for the hardware tested in the referenced doorset reports is not expected to affect their performance.

### 5.0 Conclusion

It is the opinion of Jensen Hughes' accredited fire testing laboratory in Australia that the proposed doorsets are expected to achieve the FRLs shown in Table 6 if fitted with the listed hardware.

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 lockset is the same as the field of application for the doorset that the lockset is installed on.

Table 6 Conclusion

Reference test and standard	Description	Assessed hardware	FRL*
FSV 1382a to AS 1530.4:2005	Single leaf TVC30 core Firecore doorset, nominally 38 mm thick.	McGrath ML Stafford Smart Lock with the 60/70 mm backset McGrath tubular latch, and a scar plate installed over an unfilled redundant 54 mm diameter cylindrical lock hole	-/120/30
FSV 1418a to AS 1530.4:2005	Single leaf TVC40 core Firecore doorset, nominally 48 mm thick.		-/120/30
FSV 1391a to AS 1530.4:2005	Double leaf TVC40 core Firecore doorset, nominally 48 mm thick.		-/120/30
*FRL is only valid for the standard used for the reference test.			

### 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 Jensen Hughes 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 Jensen Hughes.
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## Quality management

Revision	Date	Revision description		
DHAR1.0	Issue:	Initial issue		
	20 Aug 2025	Prepared	Reviewed	Authorised
	Expiry date: 20 Aug 2030	Ethan Huynh	Jaxsen Lee	Patrick Chan
		Thap	Jeln	Patil Cham

Jensen Hughes Fire Testing Pty Ltd ABN 81 050 241 524 Formerly Warringtonfire Australia Pty Ltd<sup>3</sup>

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Jensen Hughes Fire Testing Pty Ltd ABN 81 050 241 524

Melbourne - NATA accredited laboratory

409-411 Hammond Road Dandenong South Vic 3175 Australia T: +61 3 9767 1000

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