



### Sponsors

Australian Lock Company  
17 Doyle Avenue,  
Unanderra, NSW 2526

and

Pyropanel Developments Pty Ltd.  
Melba Industrial Park  
122-124 Beresford Road  
Lilydale, VIC 3140

### The Fire Resistance Performance of Pyropanel Doorsets with nominated variation to the door hardware.

#### Variations considered in this opinion

Fitting an Australian Lock Company Alcom 5000 Series Stainless Steel Mortice Lock with a Generic Lever Set in lieu of the door hardware tested in the referenced tests.

#### Reference Test Reports

This assessment report considers a variation to the following tested doorsets.



Test Report	Doorset Description	Test Standard
FR 1618	Single Leaf Pyropanel Doorset nominally 48mm thick.	AS 1530.4-1990
FR 1645	Two Leaf Pyropanel Doorset nominally 48mm thick.	AS 1530.4-1990


#### Additional Supporting Data

Test Report	Doorset Description	Test Duration	Test Standard
WFRA 41225	Single Leaf Trafalgar E-Core Doorset nominally 48mm thick.	241 minutes	AS 1530.4-2005

A pilot fire resistance test in accordance with Appendix B11 of AS 1530.4 2005 was conducted on a representative section of a doorset on 17<sup>th</sup> January 2006. It included an Australian Lock Company Alcom 5000 Series Stainless Steel Mortice Lock with a Generic Lever Set fitted to the door leaf. The lockset did not initiate failure of the pilot doorset during the **241 minute** fire resistance test, and continued to remain latched at the conclusion of the fire resistance test.

<b>REGISTERED TESTING AUTHORITY</b>	Warrington Fire Research (Aust) Pty Ltd		
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<b>Phone / Fax</b>	61 (0)3 9767 1066 / 61 (0)3 9767 1001		
<b>ABN</b>	81 050 241 524		
<b>Email / Home Page</b>	<a href="mailto:testing@wfra.com.au">testing@wfra.com.au</a> / <a href="http://www.wfra.com.au">www.wfra.com.au</a>		
<b>Authorisation</b>	Prepared By:	Reviewed By:	
	 A. F. Rayner	 K.G. Nicholls	

Hardware description			
<b>Product name(s) and manufacturer:</b>		Alcom 5000 Series Stainless Steel Mortice Lock Set – Australian Lock Company - with generic handles.	
Materials			
Latchbolt (Uncoded)	Striker (Uncoded)	Latchbolt restraining plate (Coded)	Lockset body (Uncoded)
Stainless Steel	Stainless Steel	Stainless steel	Stainless Steel
The above essential latching components were not stamped with material codes (except for the latchbolt restraining plate) as required by AS 1905.1. They should be marked if there are options allowing for the use of other materials.			
<b>Method of fixing of handle to mortice lockset</b>		Metal screws engaging back of handle	
<b>Depth of latch engagement in striker</b>		15mm	
<b>Handle material / applied torque</b>		Undetermined / Opening 2Nm	
<b>Handle backing plate material</b>		Not applicable	
<b>Latch set cut-out dimensions</b>		Refer Figure 1 below (drawing provided by test sponsor)	
Typical installation of an Australian Lock Company Alcom 5000 Series Stainless Steel Mortice Lock with a Generic Lever Set on the door leaf.			
		Unexposed side	Exposed side

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<b>Authorisation</b>	Prepared By:  A. F. Rayner	Reviewed By:  K.G. Nicholls

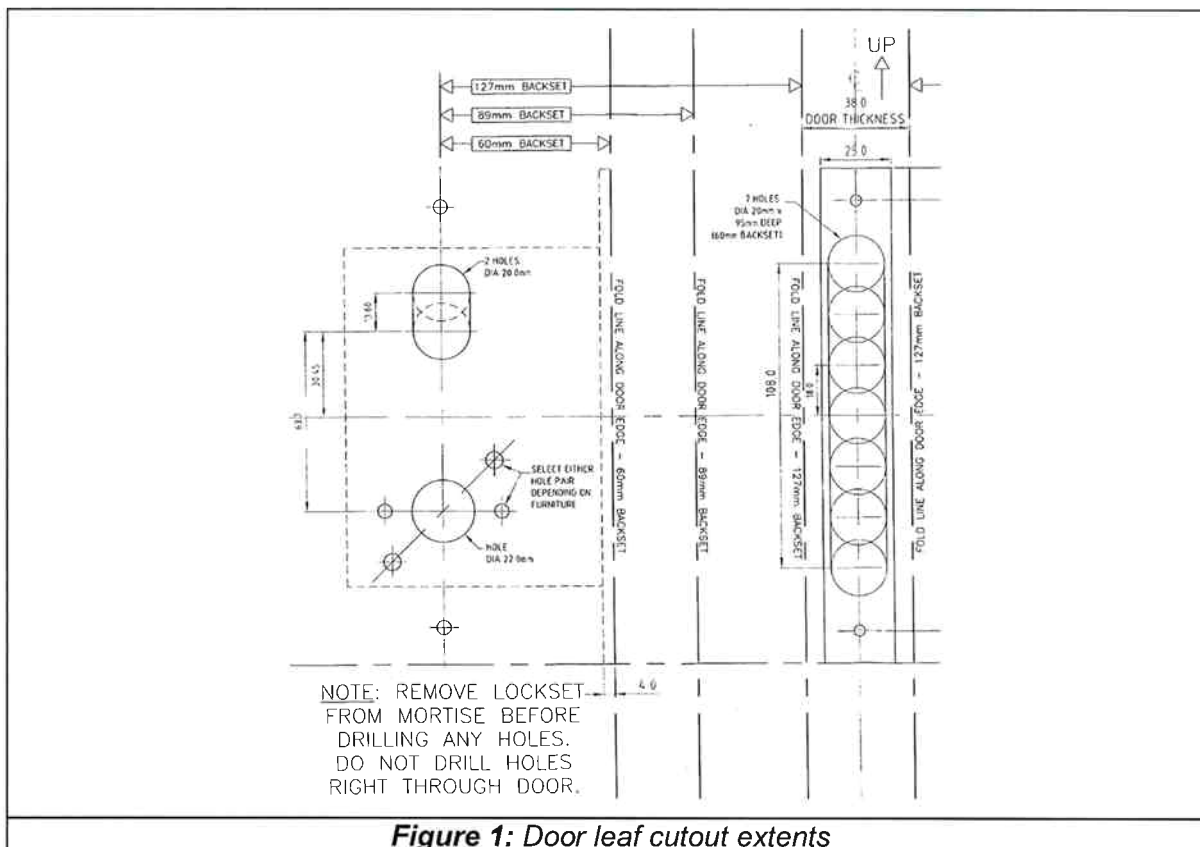


Figure 1: Door leaf cutout extents

Discussion

The method of installation including cut-outs of the proposed latchset is comparable to the latchsets tested in the reference tests.

The essential latching components are manufactured from materials having a melting point of not less than 1030°C, therefore it is expected that failure associated with melting of the latch components would not occur during the test.

Results from Pilot scale test WFRA 41225 confirmed the above expectation and the latchset is positively assessed for the proposed period.

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### Conclusions

On the basis of the above discussion it is the opinion of this laboratory that the doorsets listed below would be likely to achieve the FRL stated in the reference test reports if they are fitted with an Australian Lock Company Alcom 5000 Series Stainless Steel Mortice Lock with a Generic Lever Set on the door leaf 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 and latchset complying with Section 2 of AS 1905.1:2005. The field of application of proposed latchsets is defined by the field of application of the tested doorset the latchsets are installed upon.

### Conditions/Validity

This assessment report does not provide an endorsement by Warrington Fire Research (Aust) Pty Ltd of the actual products supplied.

The conclusions of this assessment may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all conditions. The test method requires only one sample to be tested and it should be noted that there are inherent variability's in the test procedure, materials and methods of construction and installation that may lead to variations in performance between doorsets of similar construction.

This assessment is formulated on the basis of information and experience available at the time of preparation. The published procedures for the conduct of tests and the appraisal of test results are the subject of constant review and improvement and it is recommended that the information provided in this report is reviewed by 28<sup>th</sup> February 2011 by Warrington Fire Research (Aust) Pty Ltd.

The information contained in this report must not be used for the assessment of variations other than those stated in the conclusions above.

This assessment is valid provided no modifications are made to the systems or formulations detailed in this report. All details of construction should be consistent with the requirements stated in this report and all referenced documents.

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