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Sponsor(s)

Fire & Security Hardware Pty. Ltd. Unit 7/30 Perry Street, Matraville, NSW, 2036	Pyropanel Developments Pty Ltd. Melba Industrial Park 122-124 Beresford Road Lilydale, VIC 3140, AUSTRALIA
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Issue Date

24/11/08

Validity Date

30/11/13

The Fire Resistance Performance of a Doorset with Nominated Variation

Variations Considered in this Report

Fitting a FES20 or FES20M electric strike in lieu of the door hardware tested in the referenced test.

Referenced Test Reports

Test Report	Doorset Description	Test Result
FR 1618	Single Leaf Pyropanel Doorset nominally 48mm thick and incorporates an FR core.	-/120/90
FR 1645	Two Leaf Pyropanel Doorset nominally 48 mm thick	-/120/90

Additional Supporting Data

Test Report	Doorset Description	Test Duration	Test Standard
BWA No. 2209800	Single Leaf FR Pyropanel doorset nominally 38mm thick	121 minutes	AS 1530.4-2005

A pilot fire resistance test in accordance with Appendix B11 of AS 1530.4-2005 was conducted on a 38mm thick Pyropanel FR core doorset on 2nd October 2008. It included an FSH FES20M electric strike fitted to the door leaf in conjunction with a traditional cylindrical latchbolt "Legge Pacific SS" with a backset of 70mm.

When tested the electric strike did not initiate failure of the pilot doorset prior to 120 minutes duration and continued to remain latched at the conclusion of the fire resistance test 121 minutes.

TESTING AUTHORITY	Bodycote Warringtonfire (Aus) Pty Ltd
Address	PO Box 4282 DANDENONG SOUTH VIC 3164 Unit 2, 409-411 Hammond Road DANDENONG VIC 3175
Phone / Fax	61 (0)3 9767 1000 / 61 (0)3 9767 1001
ABN	81 050 241 524
Email / Home Page	testing@wfra.com.au / www.wfra.com.au
Authorisation	Prepared By:  Keith Nicholls Reviewed By:  Chad McLean

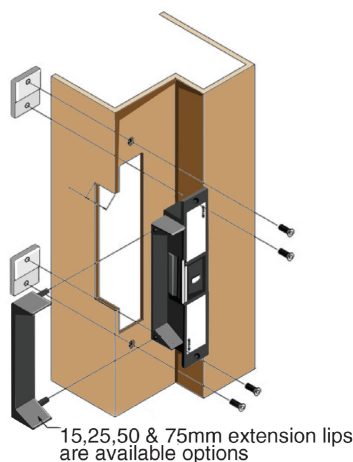
Hardware Description

Product name(s) and manufacturer:	FSH FES20M and FSH FES20 Electric strike, manufactured by Fire & Security Hardware Pty. Ltd. Unit 7/30 Perry Street, Matraville, NSW, 2036.
Materials and install	The body and the strike and the striker are made from solid stainless steel. The strike is recessed into the frame and contained position monitoring devices.

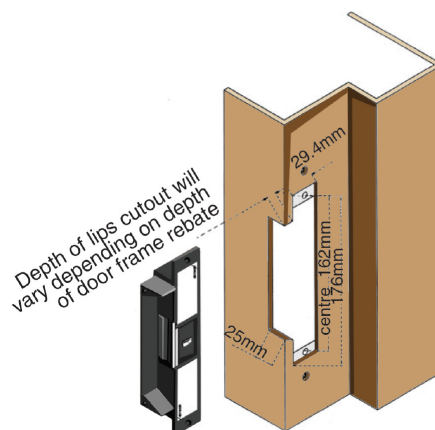


FSH FES20 Electric Strike
FSH FES20M Electric Strike

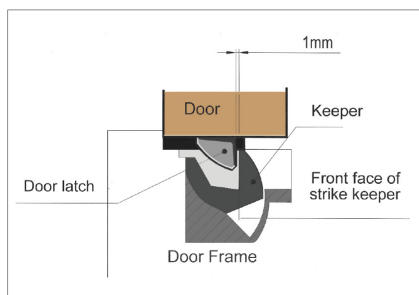
EXTENSION LIP DETAILS



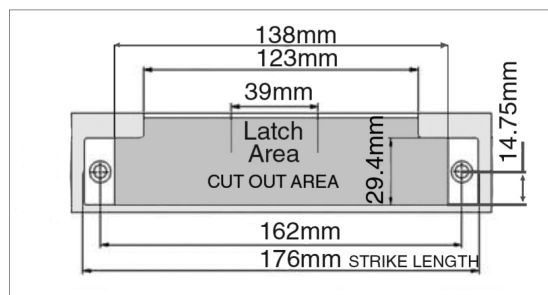
METAL FRAME CUT OUT



MECHANICAL DOOR LOCK CONFIGURATION



CUT OUT DIMENSION



Discussion

The proposed doorset is a 45mm thick Pyropanel FR core doorset as tested in FR1618.

The proposed electric strikes are FSH FES20M and FSH FES20 (same as "M" though without position monitoring reader).

The proposed electric strikes represent the same or less mass or less combustible materials than the tested FES20M electric strike.

It is expected if a tested hardware item does not initiate failure of the pilot doorset before the failure occurred on the reference doorsets, then addition of the proposed hardware will not be detrimental to the performance of the reference doorset.

Results from Pilot scale test BWA 2209800 has confirmed this expectation and the magnetic is positively assessed for the proposed period.

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 listed below if they are fitted with a FSH FES20M and FSH FES20

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 latchset is defined by the field of application of the tested doorset the strike is installed upon.

Test Ref	Description	FRL
FR 1618	Single Leaf Pyropanel Doorset nominally 48mm thick and incorporates an FR core.	-/120/90
FR 1645	Two Leaf Pyropanel Doorset nominally 48 mm thick	-/120/90

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 Bodycote 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.