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Door Hardware Assessment Report No.		DHAR 41174500.2 Page 1 of 3	
Test Sponsors		Issue Date	
Lane Security (ITW Proline) 74-94 Newton Rd Wetherill Park, NSW, 2164 and E Plus Building Products Pty Ltd 85-89 Tulip Street Cheltenham VIC 3192		10/06/2016	
		Validity Date	
		18/05/2021	

The Fire Resistance Performance of E+ Doorsets with nominated variation to the Door Locksets and Levers

Variations Considered in this Report

Fitting one of the following Lane Security™ door handles with 6 pin solid brass cylinder lockset in lieu of the door lockset tested in the referenced tests;

	
Lane Series L8	Lane Series K8



Referenced Test Reports

Test Report	Doorset Description	Test Standard
FSV 0608	Single leaf Plywood faced E-core mini Doorset nominally 35mm thick	AS 1530.4-1990
FSV 0609	Single leaf Plywood faced E-core Doorset nominally 45mm thick	AS 1530.4-1990
SI 2271	Two Leaf Plywood faced E-core Doorset nominally 45mm thick	AS 1530.4-1990

Additional Supporting Data

Test Reference	Doorset Description	Test Duration	Test Standard
EWFA 41174500	Single Leaf Plywood faced E-core Doorset nominally 35mm 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 pilot doorset on the 23 March 2016. It included a fitted into the door leaf.

TESTING AUTHORITY	Exova 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	www.exova.com		
Authorisation	Prepared By:	Reviewed By:	
			
	Anthony Rosamilia	Keith Nicholls	

Tested Hardware Description



Unexposed side



Latch Edge



Exposed side

Product name:**Door system properties:****Door leaf thickness:** 38mm**Backset :** 70mm**Lockset type:** 6 pin solid brass cylinder**Location:** 245mm from the centre of the lock to the bottom of the door leaf**Cut-out size for lockset:** To fit lock

Discussion

Lane Series L8 Lever with Cylinder Lockset

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

AS 1530.4- 2005 states that sustained flaming on the surface of the unexposed face for 10 seconds or longer constitutes integrity failure. AS 1530.4-2005 also states that a latching mechanism ceasing to be engaged constitutes integrity failure. During the referenced test EWFA 41174500 the did not initiate failure of the doorset for the duration of the test.

Results from pilot scale test EWFA 41174500 show that the with cylinder lockset is positively assessed for the test periods as indicated below.

Lane Series K8 Knob with Cylinder Lockset

It is expected that if the proposed Lane Series K8 handle associated with cylinder lockset does not initiate failure of the pilot doorset before failure occurred on the referenced doorsets, then substituting the proposed door lockset with the one tested on the referenced doorsets will not be detrimental to the performance of the reference doorset.

The proposed lockset with nominal 70mm backset is similar to the tested Lane Series L8 with cylinder in test EWFA 41174500, the cylinder lock is made from the same material and using the same construction method. The principle variation from the tested lockset is the handle is substituted with Lane Series K8 knob on each side of lock.

AS1530.4-2005 Clause 7.9.7(l) (ii) stipulates 'where lockset or latchsets are operated by a steel shaft, their surface-mounted furniture may be varied provided any replacement handle or knob is not so massive or asymmetrical as to introduce a turning moment about the operating shaft which exceeds 0.07Nm.'

The proposed Lane Series K8 knob is lighter than the tested Lane Series L8 lever, thence with reference to Clause 7.9.7(l) (ii), it is considered substituting proposed Lane Series K8 knob with cylinder lockset on the target doorsets are not likely to reduce the integrity performance of the doorset below for the test periods as indicated below.

Conclusions

On the basis of the above discussion, it is the opinion of this laboratory that the doorsets listed below will achieve the FRL listed below if they are fitted with a or a Lane Series K8 knob with cylinder lockset on the doorsets 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 complying with Section 2 of AS 1905.1:2005. The field of application of the door lockset is defined by the field of application of the doorset the door lockset is installed upon.

Test Ref	Description	FRL
FSV 0608	Single leaf Plywood faced E-core mini Doorset nominally 35mm thick	-/120/30
FSV 0609	Single leaf Plywood faced E-core Doorset nominally 45mm thick	-/120/30
SI 2271	Two Leaf Plywood faced E-core Doorset nominally 45mm thick	-/120/30

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 Exova 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.

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Test Sponsors Lane Security (ITW Proline) 74-94 Newton Rd Wetherill Park, NSW, 2164 and Firecore Pty Limited 291 Warringah Road Beacon Hill NSW 2100	Issue Date 29/07/2016
	Validity Date 18/05/2021

The Fire Resistance Performance of Firecore Doorsets with nominated variation to the Door Locksets and Levers

Variations Considered in this Report

Fitting one of the following Lane Security™ door handles with 6 pin solid brass cylinder lockset in lieu of the door lockset tested in the referenced tests;

	
Lane Series L8	Lane Series K8


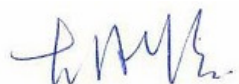
Referenced Test Reports

Test Report	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 48mm thick	AS 1530.4-2005

Additional Supporting Data

Test Reference	Doorset Description	Test Duration	Test Standard
EWFA 40997000	Single Leaf TVC30 Core Firecore Doorset nominally 38 mm 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 pilot doorset on the 22 February 2016. It included a Lane Series L8 lever with snib and cylinder lockset fitted into the door leaf.

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Address	PO Box 4282 DANDENONG SOUTH VIC 3164 Unit 2, 409-411 Hammond Road DANDENONG VIC 3175		
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ABN	81 050 241 524		
Email / Home Page	www.exova.com		
Authorisation	Prepared By:	Reviewed By:	
			
	Patrick Chan	Sherry Hu	

Tested Hardware Description



Unexposed side



Latch Edge



Exposed side

Product name: Lane Series L8 lever with snib and cylinder lockset

Door system properties:

Door leaf thickness: 38mm

Backset : 70mm

Lockset type: 6 pin solid brass cylinder

Location: 245mm from the centre of the lock to the bottom of the door leaf

Cut-out size for lockset: To fit lock

Discussion

Lane Series L8 Lever with Cylinder Lockset

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

AS 1530.4- 2005 states that sustained flaming on the surface of the unexposed face for 10 seconds or longer constitutes integrity failure. AS 1530.4-2005 also states that a latching mechanism ceasing to be engaged constitutes integrity failure. During the referenced test EWFA 40997000 the Lane Series L8 lever with snib and cylinder lockset did not initiate failure of the doorset for the duration of the test.

Results from pilot scale test EWFA 40997000 show that the Lane Series L8 Lever with snib and cylinder lockset is positively assessed for the test periods as indicated below.

Lane Series K8 Knob with Cylinder Lockset

It is expected that if the proposed Lane Series K8 handle associated with cylinder lockset does not initiate failure of the pilot doorset before failure occurred on the referenced doorsets, then substituting the proposed door lockset with the one tested on the referenced doorsets will not be detrimental to the performance of the reference doorset.

The proposed lockset with nominal 70mm backset is similar to the tested Lane Series L8 with snib and cylinder in test EWFA 40997000, the cylinder lock is made from the same material and using the same construction method. The principle variation from the tested lockset is the handle is substituted with Lane Series K8 knob on each side of lock.

AS1530.4-2005 Clause 7.9.7(l) (ii) stipulates 'where lockset or latchsets are operated by a steel shaft, their surface-mounted furniture may be varied provided any replacement handle or knob is not so massive or asymmetrical as to introduce a turning moment about the operating shaft which exceeds 0.07Nm.'

The proposed Lane Series K8 knob is lighter than the tested Lane Series L8 lever, thence with reference to Clause 7.9.7(l) (ii), it is considered substituting proposed Lane Series K8 knob with cylinder lockset on the target doorsets are not likely to reduce the integrity performance of the doorset below for the test periods as indicated below.

Conclusions

On the basis of the above discussion, it is the opinion of this laboratory that the doorsets listed below will achieve the FRL listed below if they are fitted with a Lane Series K8 lever with snib and cylinder lockset or a Lane Series K8 knob with cylinder lockset on the doorsets 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 complying with Section 2 of AS 1905.1:2005. The field of application of the door lockset is defined by the field of application of the doorset the door lockset is installed upon.

Test Report	Doorset Description	FRL
FSV 1382a	Single Leaf TVC30 Core Firecore Doorset nominally 38 mm thick	-/120/30
FSV 1418a	Single Leaf TVC40 Core Firecore Doorset nominally 48 mm thick	-/120/30
FSV 1391a	Double Leaf TVC40 Core Firecore Doorset nominally 48mm thick	-/120/30

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 Exova 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.

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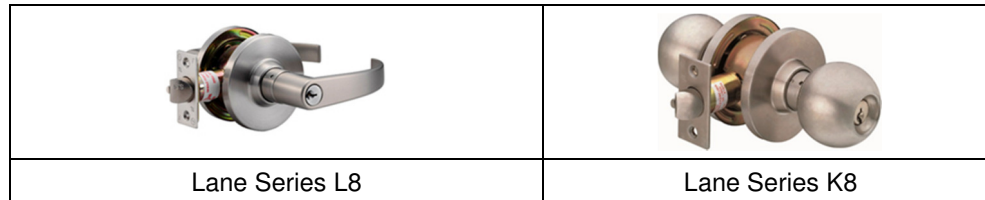
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Door Hardware Assessment Report No.		DHAR 42614500.3 Page 1 of 3	
Test Sponsor		Issue Date	
Pyropanel Developments Pty Ltd Unit 1, 97 Lewis Rd Wantirna South VIC 3152		08/08/2016	
Hardware Supplier		Validity Date	
Lane Security (ITW Proline) 74-94 Newton Rd Wetherill Park, NSW, 2164		18/05/2021	

The Fire Resistance Performance of Pyropanel FR doorset with nominated variation to the Door Locksets and Levers

Variations Considered in this Report



Fitting one of the following Lane Security™ door handles with 6 pin solid brass cylinder lockset in lieu of the door lockset tested in the referenced tests;






Referenced Test Reports		
Test Report	Doorset Description	Test Standard
FR 3262	Single Leaf Pyropanel FR Board Mini Doorset nominally 38mm thick	AS 1530.4-1997
FR 1618	Single Leaf Pyropanel FR Board Maxi Doorset nominally 48 mm thick	AS 1530.4-1990
FR 1645	Double Leaf Pyropanel FR Board Maxi Doorset nominally 48 mm thick	AS 1530.4-1990

Additional Supporting Data			
Test Reference	Doorset Description	Test Duration	Test Standard
EWFA 42614500	Single Leaf Pyropanel FR Board Mini Doorset nominally 38mm thick	121 minutes	AS 1530.4-2014

A pilot fire resistance test in accordance with Appendix B11 of AS 1530.4-2014 was conducted on a pilot doorset on the 9 June 2016. It included a Lane Series L8 Lever fitted into the door leaf.

TESTING AUTHORITY	Exova 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	www.exova.com		
Authorisation	Prepared By:	Reviewed By:	
			
	Sherry Hu	Dominic Nicholson	

Tested Hardware Description

		
Unexposed side	Latch Edge	Exposed side
<p>Product name: Lane Series L8 Lever Door system properties: Door leaf thickness: 38mm Backset : 70mm Lockset type: 6 pin solid brass cylinder Location: 252mm from the centre of the lock to the bottom of the door leaf Cut-out size for lockset: To fit lock Turning Moment: 0.065Nm</p>		

Discussion

Lane Series L8 Lever with Cylinder Lockset

It is expected that if the proposed Lane Series L8 lever associated with cylinder lockset does not initiate failure of the pilot doorset before failure occurred on the referenced doorsets, then substituting the proposed door lockset with the one tested on the reference doorsets will not be detrimental to the performance of the reference doorsets.

AS 1530.4- 2014 states that sustained flaming on the surface of the unexposed face for 10 seconds or longer constitutes integrity failure. AS 1530.4-2014 also states that a latching mechanism ceasing to be engaged constitutes integrity failure. During the referenced test EWFA 42614500.1 the tested Lane Series L8 Lever with cylinder lockset did not initiate failure of the doorset for the duration of the test.

Results from pilot scale test EWFA 42614500 show that the Lane Series L8 lever with cylinder lockset is positively assessed for the test periods as indicated below.

Lane Series K8 Knob with Cylinder Lockset

It is expected that if the proposed Lane Series K8 handle associated with cylinder lockset does not initiate failure of the pilot doorset before failure occurred on the referenced doorsets, then substituting the proposed door lockset with the one tested on the referenced doorsets will not be detrimental to the performance of the reference doorset.

The proposed lockset with nominal 70mm backset is similar to the tested Lane Series L8 with cylinder in test EWFA 42614500, the cylinder lock is made from the same material and using the same construction method. The principle variation from the tested lockset is the handle is substituted with Lane Series K8 knob on each side of lock.

AS1530.4-2014 Clause 7.9.7(l) (ii) stipulates 'where lockset or latchsets are operated by a steel shaft, their surface-mounted furniture may be varied provided any replacement handle or knob is not so massive or asymmetrical as to introduce a turning moment about the operating shaft which exceeds 0.07Nm.'

The proposed Lane Series K8 knob is lighter than the tested Lane Series L8 lever, thence with reference to Clause 7.9.7(l) (ii), it is considered substituting proposed Lane Series K8 knob with cylinder lockset on the target doorsets are not likely to reduce the integrity performance of the doorset below for the test periods as indicated below.

Conclusions

On the basis of the above discussion, it is the opinion of this laboratory that the doorsets listed below will achieve the FRL listed below if they are fitted with a Lane Series L8 lever or a Lane Series K8 knob with cylinder lockset on the doorsets as described in this assessment report.

This assessment has been prepared in accordance with Section 4.2 of AS 1905.1:2015 and is conditional upon the operational characteristics and materials of the doorset complying with Section 2 of AS 1905.1:2015. The field of application of the door lockset is defined by the field of application of the doorset the door lockset is installed upon.

Test Ref	Description	FRL
FR 3262	Single Leaf Pyropanel FR Board Mini Doorset nominally 38mm thick	-/120/30
FR 1618	Single Leaf Pyropanel FR Board Maxi Doorset nominally 48 mm thick	-/120/30
FR 1645	Double Leaf Pyropanel FR Board Maxi Doorset nominally 48 mm thick	-/120/30

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.

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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.