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**DHAR Test Assessment No. DHAR 39378501a.1 Page 1 of 3**

| Test Sponsors                                                                                                                                  | Issue Date    |
|------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Novas Architectural<br>Unit 4 / 5 Becon Court<br>Hallam, VIC 3803<br>and<br>Firecore Pty Limited<br>291 Warringah Road<br>Beacon Hill NSW 2100 | 29/02/2016    |
|                                                                                                                                                | Validity Date |
|                                                                                                                                                | 28/02/2021    |

**The Fire Resistance Performance of TVC30 Core Firecore Doorsets with the inclusion of perimeter seals**

**Variations Considered in this Report**

Fitting a Novas LY-AL7080Si(NACSPSSDS) Perimeter Door Seal to the door frame as an addition to the hardware tested in the reference tests.



**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 39378501  | Single Leaf TVC30 Core Doorset nominally 38mm thick | 120 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 scale doorset on the 17th of December 2015; it included a Novas LY-AL7080Si(NACSPSSDS) Perimeter Door Seal fitted to the door frame.

|                          |                                                                                         |                                                                                       |  |
|--------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|
| <b>TESTING AUTHORITY</b> | Exova Warringtonfire Aus Pty Ltd                                                        |                                                                                       |  |
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| <b>ABN</b>               | 81 050 241 524                                                                          |                                                                                       |  |
| <b>Email / Home Page</b> | <a href="http://www.exova.com">www.exova.com</a>                                        |                                                                                       |  |
| <b>Authorisation</b>     | Prepared By:                                                                            | Reviewed By:                                                                          |  |
|                          |      |  |  |
|                          | Anthony Rosamilia                                                                       | Steven Halliday                                                                       |  |

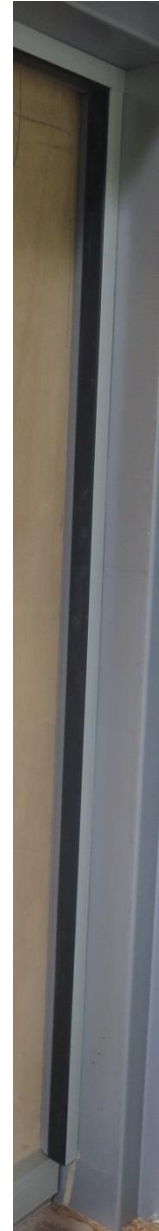
**Tested Hardware Description**



Top edge - Unexposed



Unexposed  
Open edge



Unexposed  
Hinge edge

**Product name:** Novas LY-AL7080Si(NACSPSSDS) Perimeter Door Seal

**Door system properties:**

**Door leaf thickness:** 38mm

**Function verification:**

**50 opening and closing cycle:** Completed before the test

**Average door gap clearance:** Top edge: 2.5mm

Open edge: 2.7mm

Hinge edge: 2.1mm

Bottom Edge: 6.7mm

### Discussion

It is expected if the proposed Novas LY-AL7080Si(NACSPSSDS) Perimeter Door Seals do not initiate failure of the pilot doorset before failure occurred on the referenced doorsets, then installing the additional door perimeter seals 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. During the referenced test EWFA 39378501 the Novas LY-AL7080Si(NACSPSSDS) Perimeter Door Seal initiated failure of the doorset after 79 minutes.

Results from Pilot scale test EWFA 339378501 show that the Novas LY-AL7080Si(NACSPSSDS) Perimeter Door Seal are positively assessed 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 Novas LY-AL7080Si(NACSPSSDS) Perimeter Door Seal 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 perimeter seal is defined by the field of application of the doorset the door perimeter seal is installed upon.

| Test Ref  | Description                                                                                                                | FRL            |
|-----------|----------------------------------------------------------------------------------------------------------------------------|----------------|
| FSV 1382a | Novas LY-AL7080Si(NACSPSSDS) Perimeter Door Seals fitted to a single leaf TVC30 Core Firecore Doorset nominally 38mm thick | <b>-/60/30</b> |
| FSV 1418a | Novas LY-AL7080Si(NACSPSSDS) Perimeter Door Seals fitted to a single leaf TVC40 Core Firecore Doorset nominally 48mm thick | <b>-/60/30</b> |
| FSV 1391a | Novas LY-AL7080Si(NACSPSSDS) Perimeter Door Seals fitted to a double leaf TVC40 Core Firecore Doorset nominally 48mm thick | <b>-/60/30</b> |

### 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.