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**DHAR Test Assessment No. DHAR 41968000a.1 Page 1 of 3**

| Test Sponsors  | Issue Date    |
|--|---------------|
| Digital Door Locks<br>Level 28, 140 St George Terrace<br>Perth WA, 6000<br>and<br>Firecore Pty Limited<br>291 Warringah Road<br>Beacon Hill NSW 2100 | 12/05/2016    |
|  | Validity Date |
|  | 12/05/2021    |

**The Fire Resistance Performance of TVC30 Core Firecore Doorsets with nominated variation to the Door lockset**

**Variations Considered in this Report**  
 Fitting a Samsung Lockset SHS-H705 in lieu of the door lockset tested in the referenced 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 41968000  | Single Leaf TVC30 Core Firecore Doorset nominally 38 mm thick | 61 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 4 April 2016. It included a Samsung Lockset SHS-H705 fitted to the door leaf.

|                          |   |   |  |
|--------------------------|---|---|--|
| <b>TESTING AUTHORITY</b> | Exova Warringtonfire Aus Pty Ltd  |   |  |
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| <b>Authorisation</b>     | Prepared By:  | Reviewed By:  |  |
|                          |      |  |  |
|                          | Anthony Rosamilia   | Steven Halliday   |  |

## Tested Hardware Description



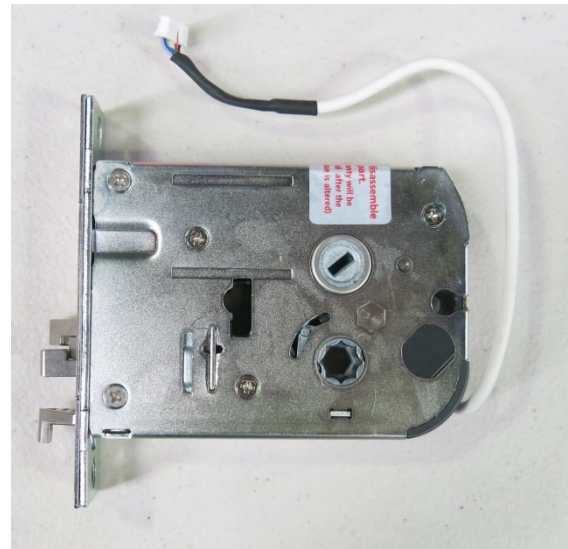
Exposed side



Latch Edge



Unexposed side



Mortice Lock

**Product name:** Samsung Lockset SHS-H705

**Door system properties:**

**Door leaf thickness:** 38mm

**Backset :** 70mm

**Lockset type:** Mortice

**Location:** Nominal 225mm from the spindle of the lock to the bottom of the door leaf

**Cut-out size for mortice:** Cut to fit.

**Function verification:**

**Opening force:** 1.8N

**Closing force:** 2.0N

**Latching force:** 44.7N

**50 opening and closing cycle:** Completed prior to test

**Average door gap clearance:**

|             |       |
|-------------|-------|
| Top edge:   | 2.2mm |
| Latch edge: | 1.6mm |
| Hinge edge: | 2.8mm |

### Discussion

It is expected that if the proposed Samsung Lockset SHS-H705 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 41968000 the Samsung Lockset SHS-H705 did not initiate failure of the doorset for the duration of the test.

Results from pilot scale test EWFA 41968000 show that the Samsung Lockset SHS-H705 is 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 a Samsung Lockset SHS-H705 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 1382a | Single Leaf TVC30 Core Firecore Doorset nominally 38 mm thick | -/60/30 |
| FSV 1418a | Single Leaf TVC40 Core Firecore Doorset nominally 48 mm thick | -/60/30 |
| FSV 1391a | Double Leaf TVC40 Core Firecore Doorset nominally 48mm thick  | -/60/30 |

### 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.