



Door Hardware Assessment Report

Resolute
Testing Laboratories

No. RTL DHAR 1901A.01

| | |
|------------|---|
| SPONSOR | E Plus Building Products Pty Ltd |
| ISSUE DATE | 30/06/2023 |
| SUBJECT: | The fire-resistance performance of an E-Core® doorset with an alternative item of hardware. |
| VARIATION | Installation of a dormakaba MS2602 mortice lock with 4300/7SSS levers and a Tedee Pro TLV1.0A HK Smart Door Lock. |


REFERENCED TEST REPORTS

| REPORT REF. | DESCRIPTION | FRL | TEST STANDARD |
|-------------|--|----------|----------------|
| FCO 2792 | Assessment of fire-resistance of E-Core Mini and Maxi doorsets | Varied | AS 1530.4-2005 |
| FSV 0609 | Single leaf plywood faced E-Core doorset nominally 45 mm thick | -/240/30 | AS 1530.4-1990 |
| FSV 0608 | Single leaf plywood faced E-Core doorset nominally 35 mm thick | -/240/30 | AS 1530.4-1990 |
| SI 2271 | Double leaf plywood faced E-Core doorset nominally 45 mm thick | -/240/30 | AS 1530.4-1990 |
| TE 7299A | Double leaf plywood faced E-Core doorset nominally 45 mm thick | -/240/30 | AS 1530.4-1985 |

ADDITIONAL SUPPORTING DATA

| TEST REF. | DESCRIPTION | TEST DURATION |
|------------|---|---------------|
| FR 1901.01 | E-Core® Residential Mini fire door pilot-scale fire resistance test with alternative items of hardware. | 121 minutes |

The intent of this test was to examine the suitability of alternative items of hardware for use with previously tested prototype doors, in accordance with Appendix B11 of AS 1530.4:2014 and Clause 4.1 of AS 1905.1:2015

| HARDWARE DETAILS FROM SUPPORTING DATA | |
|--|--|
| Product Name(s) and Manufacturer | dormakaba MS2602 mortice lock with 4300/7SSS levers and a Tedee Pro TLV1.0A HK Smart Door Lock |
| Leaf Thickness | 35 mm nominal |
| Installation | 125 mm x 25 mm cutout for mortice body, one 22 mm hole for the spindle, one 22 mm x 28 mm for the cylinder and two 4.5 mm furniture screw holes. |
|  | |
| Installation of dormakaba MS2602 and Tedee Smart Lock in FR1901. | |



ANALYSIS

We have examined the information submitted to us and appraised the suitability of the alternative items of hardware, in terms of AS 1905.1:2015 Clause 4.1.

It is expected that if the proposed dormakaba MS2602 mortice lock with 4300/7SSS levers and a Tedee Pro TLV1.0A HK Smart Door Lock does not initiate a failure during the pilot fire test, before failure or the conclusion of the referenced tests, that incorporating the proposed dormakaba MS2602 mortice lock with 4300/7SSS levers and a Tedee Pro TLV1.0A HK Smart Door Lock on the referenced doorsets would not be detrimental to the performance of the referenced doorsets.

AS 1530.4:2014 states that the measurement of the integrity of the test specimen shall be made by cotton pad, gap gauges or sustained flaming (≥ 10 s). The same criteria apply for AS 1530.4-2005. During the referenced test FR 1901.01, the dormakaba MS2602 mortice lock with 4300/7SSS levers and a Tedee Pro TLV1.0A HK Smart Door Lock did not initiate a failure of the doorset for the duration of the test period.

The results from the pilot fire test FR 1901.01 provides evidence that the dormakaba MS2602 mortice lock with 4300/7SSS levers and a Tedee Pro TLV1.0A HK Smart Door Lock can be positively assessed for the test period of 121 minutes under the integrity criterion of AS 1530.4-2005.

CONCLUSION

Based on the referenced documentation and the above analysis, it is the opinion of this Accredited Testing Laboratory that the fitting of the alternative item of hardware, to the previously tested doorsets per the below table, is permissible within the terms of Clause 4.1 of AS 1905.1:2015. The doorsets listed below would be likely to achieve the FRL listed below, if fitted with the dormakaba MS2602 mortice lock with 4300/7SSS levers and a Tedee Pro TLV1.0A HK Smart Door Lock to the manufacturers specifications and tested to AS 1530.4-2005.

This assessment report has been conducted in accordance with Clause 4.1 of AS 1905.1:2015 and is conditional upon the operational characteristics and materials of the doorset complying with Sections 2 and 4 of AS 1905.1:2015. The field of application of the assessed hardware is defined by the field of application of the doorset the hardware is installed upon.

| REPORT REF. | DESCRIPTION | FRL | STANDARD |
|-------------|--|----------|----------------|
| FCO 2792 | Assessment of fire-resistance of E-Core Mini and Maxi doorsets | -/120/30 | AS 1530.4-2005 |
| FSV 0609 | Single leaf plywood faced E-Core doorset nominally 45 mm thick | -/120/30 | AS 1530.4-1990 |
| FSV 0608 | Single leaf plywood faced E-Core doorset nominally 35 mm thick | -/120/30 | AS 1530.4-1990 |
| SI 2271 | Double leaf plywood faced E-Core doorset nominally 45 mm thick | -/120/30 | AS 1530.4-1990 |
| TE 7299A | Double leaf plywood faced E-Core doorset nominally 45 mm thick | -/120/30 | AS 1530.4-1985 |

VALIDITY

In accordance with AS 1905.1:2015 Clause 4.3 Note 2:

- “For assessments reports carried out where pilot fire testing is carried out to support the assessment, a period of validity is not required.”

A validity period has not been applied to this assessment. We reserve the right at any time to amend or withdraw this assessment in the light of new knowledge.



LIMITATIONS



The conclusions of this assessment report may be used to directly assess the fire-resistance performance under such conditions, but it should be recognised that a single test method will not provide a full assessment of the fire hazard under all fire 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.

This assessment report does not provide an endorsement by Resolute of the actual products supplied to the industry. The referenced assessment can therefore only relate to the actual prototype test specimens, testing conditions and methodology described in the supporting data, and does not imply any performance abilities of subsequent construction.

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. It is therefore recommended that this report is reviewed on, or before, the stated validity terms.

The information contained in this assessment 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.

| | | |
|---|---|---|
| NATA Accredited Testing Laboratory | Resolute Testing Laboratory Pty Ltd | |
| Address | U18-19, 31-79 Paisley Drive, Lawnton, Queensland, 4501 | |
| Phone | 1300 664 698 | |
| ABN | 26 610 548 733 | |
| Website / Email | www.resolutelabs.com.au / info@resolutelabs.com.au | |
| Authorisation | Prepared By: | Authorised By: |
| |  |  |
| | Matt Lewis – Technical Manager | Matt Lewis – Technical Manager |