

DHF Technical Specification
TS001
Enhanced Requirements & Test
Methods For Anti-Ligature
Hardware



A Report To: Safehinge Primera
Level 4
Skypark
14 Elliot Place
Glasgow
G3 8EP

Date: 15/01/2020

Copy: Final

Issue No.: 1

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Document Reference: WIL 423481

TEST CONCLUSIONS

Samples of: Safehinge Primera
Product: Assembly & Handle
Manufactured by: Safehinge Primera
Model: Integrated Override Lockset, 725 Turn Pull & Supergrip Handle
Size: Not Known
have been tested in accordance with:
DHF Technical Specification TS001: Enhanced Requirements & Test Methods
For Anti-Ligature Hardware

By Element Materials Technology.
At Wednesbury One Trading Estate, Black Country New Road, Wednesbury, WS10 7NZ.

Results as detailed below:

Clause No.	Description	Compliance
5.1	Category Of Use	A4
5.1.1.1	Installation of Fixed Hardware Devices	Pass
5.1.1.2	Installation of Load Release Hardware Devices	N/a
5.2	Durability	N/a
5.3	Door Mass	N/a
5.4	Suitability for use on fire/smoke doors	N/t
5.5	Safety - Grade A4	Pass
5.6	Corrosion Resistance - Grade 0	N/t
5.7	Security	N/a

No inferences can be made regarding performance against other requirements of this standard

AUTHORISATION

Tests performed by: Ryan Jackson – Test Engineer

Report issued by: Ryan Jackson – Test Engineer

Signed: 

Date: 15/01/2020

For and on behalf of Element Materials Technology

Report authorised by: Nathan Pilsbury – Hardware Laboratory Manager

Signed: 

Date: 15/01/2020

For and on behalf of Element Materials Technology

Report issued: 15 January 2020



NOTE.

Tests marked "Not UKAS Accredited" are not covered by the Laboratory UKAS accreditation schedule.

Tests marked NT were not tested

Tests marked NA are not applicable to the product on test.

The laboratory has tested the material/items supplied by the customer as sampled in accordance with the customer's own requirements. Results apply only to samples as received, and may not be indicative of a type or batch.

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TEST DETAILS

CLIENT DETAILS

Company name Safehinge Primera
Address Level 4
Skypark
14 Elliot Place
Glasgow
G3 8EP

Contact Max Szczerkowski

ORDER DETAILS

Order number 14538
Dated 07/01/2020

SAMPLE DETAILS

Product Various
Model Integrated Override Lockset, 725 Turn Pull & Supergrip Handle
Markings Not Shown
Manufacturer Safehinge Primera
Date of Manufacture Not Known
Other information None

TEST DETAILS

Test reference nos. WIL 423481
Date sample received 10/01/2020
Date test started 10/01/2020
Date test completed 14/01/2020
Specification tests conducted to DHF TS001: Enhanced Requirements & Test Methods
For Anti-Ligature Hardware
Class and or Category A4
Special Test requirements None
Other reports to be used in conjunction with this report None

STANDARD REQUIREMENTS

Category of Use Grade 4
Suitability for Use Fire Doors Grade 0
Safety Grade 4
Corrosion Resistance Grade 0
Product Type Grade A

INITIAL OBSERVATIONS



TEST RESULTS

Sample B- Category of Use

Clause No.	Detail	Requirement	Test Result	P = Pass F = Fail ** NA
5.1.1.1/ 6.1.1	Installation of fixed hardware	The fixed hardware device shall not be removable without the use of special tools	Cannot be removed	Pass

Sample C- Category of Use

Clause No.	Detail	Requirement	Test Result	P = Pass F = Fail ** NA
5.1.1.1/ 6.1.1	Installation of fixed hardware	The fixed hardware device shall not be removable without the use of special tools	Cannot be removed	Pass

1. Sample B- Safety Test – Test Method A

Clause No.	Detail	Requirement	Test Result	P = Pass F = Fail ** NA
5.5	Safety	Fixed Hardware Devices		
6.5.1.2	Vertically mounted devices (Grades 1,2,3,4)	<p>A test wire shall be tied around the device as close as possible to mounting fixture.</p> <p>The 5N ligature load shall be applied by a wire with diameter of Grade 1 >4mm, Grade 2 2mm, Grade 3 1mm, Grade 4 0.5mm</p> <p>The ligature load shall be applied in five directions and wire shall not remain attached to the device in any of the directions</p> <p>Downward Upward Horizontally Left Horizontally Right Perpendicularly to surface</p>	<p>Grade 1 – 4mm wire did not remain attached</p> <p>Grade 2 – 2mm wire did not remain attached</p> <p>Grade 3 – 1mm wire did not remain attached</p> <p>Grade 4 – 0.5mm wire did not remain attached</p>	Pass

2. Sample B - Safety Test continued

Clause No.	Detail	Requirement	Test Result	P = Pass F = Fail ** NA
6.5.1.4	Vertically mounted devices (Grade 1 Only)	<p>A strip of wetted cotton cloth shall be tied around device as close as possible to mounting fixture.</p> <p>The 5N ligature load shall then be applied by this cloth in five directions and it shall not remain attached to the device in any of the directions</p> <p>Downward Upward Horizontally Left Horizontally Right Perpendicularly to surface</p>	Grade 1 – 4mm wire did not remain attached	Pass

3. Sample C- Safety Test – Test Method B For Vertical Direction Devices

Clause No.	Detail	Requirement	Test Result	P = Pass F = Fail ** NA
5.5	Safety	Fixed Hardware Devices		
6.5.1.2	Vertically mounted devices (Grades 1,2,3,4)	<p>A test wire shall be tied around the device as close as possible to mounting fixture.</p> <p>The 5N ligature load shall be applied by a wire with diameter of Grade 1 >4mm, Grade 2 2mm, Grade 3 1mm, Grade 4 0.5mm</p> <p>The ligature load shall be applied in five directions and wire shall not remain attached to the device in any of the directions Downward Upward Horizontally Left Horizontally Right Perpendicularly to surface</p>	<p>Grade 1 – 4mm wire did not remain attached</p> <p>Grade 2 – 2mm wire did not remain attached</p> <p>Grade 3 – 1mm wire did not remain attached</p> <p>Grade 4 – 0.5mm wire did not remain attached</p>	Pass

4. Sample C - Safety Test continued

Clause No.	Detail	Requirement	Test Result	P = Pass F = Fail ** NA
6.5.1.4	Vertically mounted devices (Grade 1 Only)	<p>A strip of wetted cotton cloth shall be tied around device as close as possible to mounting fixture.</p> <p>The 5N ligature load shall then be applied by this cloth in five directions and it shall not remain attached to the device in any of the directions Downward Upward Horizontally Left Horizontally Right Perpendicularly to surface</p>	Grade 1 – 4mm wire did not remain attached	Pass

5. Classification achieved

Category of use	Durability	Door mass	Fire resistance	Safety	Corrosion resistance	Security	Product Type
4	-	-	0	A4	0	-	A

6. Marking

Clause No.	Detail	Requirement	Test Result	P = Pass F = Fail ** NA
7	Marking	The following information shall be shown on product labelling, packaging or literature Manufacturers name or trademark Clear product identification Classification according to clause 4 Number and Date of this standard	Not Shown	Fail

Uncertainty of measurements

Where the tolerance given for a specified value is in one direction only, i.e.

Mass + 5kg – 0kg.

The value to be measured must be adjusted to the mid tolerance value with a tolerance of $\pm \frac{1}{2}$ the unidirectional tolerance. i.e.

Mass + 5kg – 0kg. Becomes Mass + 2.5 kg \pm 2.5 kg.

The uncertainty of measurements calculated for a confidence level of 95% throughout these tests are within the limits of the tolerances detailed in the standard.

Observations and Comments

The products have achieved Grade A4 but cannot claim for use on fire doors as no relevant fire evidence has been supplied as of yet. The products also have no grade of corrosion as this test wasn't carried out.

The products have also failed to meet the requirements of Clause 7 – Marking as none of the relevant markings are shown.

-End of Report-

Revision History

Issue No :	Re - Issue Date :
Revised By:	Approved By:
Reason for Revision:	

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Reason for Revision:	