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TECHNICAL REPORT

| Sayfa Group (Europe) Ltd | SATRA reference: | SPC4684F4T4 | ATA |
|--------------------------|---------------------------|--------------------------|----------|
| Unit B1 | Sayra | 2341 | 5 |
| Research Point | Report ID/Issue number: | 34833/1 | Salas |
| Shepshed | Your reference: | 4684FA | STA Grov |
| Leicestershire | Date samples received: | td +TA | |
| LE19 1WH | Date(s) work carried out: | 27/10/2023 to 27/10/2023 | |
| OUK 4684F4T4 | Date of report: | 30/11/2023 | |

Testing Requirements

Testing of a rigid anchor rail described as "FST.079.081.6000.3U FallSecure Track" in accordance with BS 8610:2017 type D1 for up to 3 users

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For SATRA's statements regarding the confidentiality, publication and dissemination of this report, decision rules and UKAS accreditation please see the final page of this technical report.

Report Signed by:

(Europe) Ltd

Edward Brooks

Report Signatory

Sayfa Group (El



Sayfa Group (Europe) Ltd **Technical Report**

WORK REQUESTED

Samples of "FST.079.081.6000.3U FallSecure Track" were received by SATRA on the 27th October 2023, for testing in accordance with BS 8610:2017 type D1 for up to 3 users

CONCLUSIONS

| SAMPLE REFERENCE | STANDARD | CLAUSE / PROPERTY | PASS / FAIL | |
|----------------------------|----------------------|--|----------------|------------------|
| | | 4.1 General requirements | PASS See | / ₁ . |
| | | 4.1 Ochoral requirements | note 4 | 10 (5 |
| | | 4.2 Pre-testing verification and recording | PASS See | 156 |
| FST.079.081.6000.3U | S | requirements | note 4 | |
| FallSecure Track | BS 8610:2017 1/2 | 4.3 Materials | PASS See | |
| FallSecure Hack | 4 | 4.5 Waterials | note 4 | |
| Lin | TATA | 4.4 Design and ergonomics | PASS See | |
| 140 | * | 4.4 Design and ergonomics | note 4 | |
| | | 4.5.3.2 Type D1 restraint – non-load-limiting | PASS | |
| TESTING | Salas | The state of the s | Europe |) Line |
| Testing was carried out in | accordance with BS 8 | 3610:2017 on the 27 th October 2023 | | 1.0 |

TESTING

The anchor device is intended as a type D (rigid anchor rail) device

The anchor device allows up to a maximum of three users to be attached simultaneously

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For the purposes of testing, the anchor device was installed onto concrete, with test forces applied in a direction parallel to the ground

Samples were tested as received, and were not subject to any pre-conditioning processes other than those stated in individual test clauses

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Figure 1 - Anchor described as "FST.079.081.6000.3U FallSecure Track"

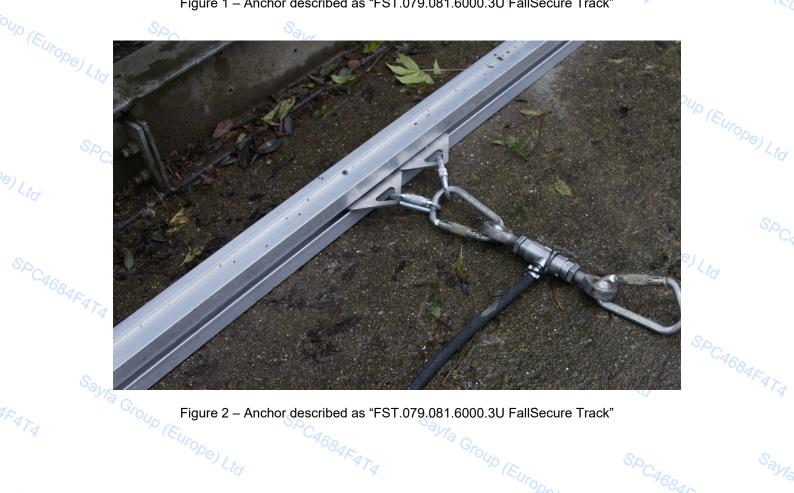


Figure 2 - Anchor described as "FST.079.081.6000.3U FallSecure Track" ob.

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TEST RESULTS

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Table 1 – Testing of "FST.079.081.6000.3U FallSecure Track" in accordance with BS 8610:2017, Type D1 restraint – non-load-limiting

| BS 8610:2017 CLAUSE / TEST | BS 8610:2017 REQUIREMENT | RESULT / COMMENT | UoM (See note 1) | PASS / FAIL |
|-------------------------------|---|--|---------------------|----------------|
| 4.1 General requirements | Anchor systems shall be tested in the base materials that the manufacturer permits, unless otherwise | The anchor device was tested in concrete | 584F4T | PASS |
| SPC | specified in the relevant test methods | | . 4 | |
| Spc (rope) Ltd | Where the manufacturer permits loading in more than one direction, | Testing was carried out in 1 direction on each relevant safety critical position | Sayra | PASS |
| SPCAC | anchor systems shall be tested in each relevant principal safety critical direction | Ltd TA | | Broup (E) |
| *684F4T4 | Where alternative configurations of the same type of anchor device are to be made | Not applicable – no alternative configurations | Group | N/A |
| Sayn | available, the worst configuration shall be tested, ensuring the limit is set for the | Tt _d | Ground N/A Euro | Poe) Lta |
| Sayre 684F4T4 | configuration that could be offered | Sp. Sala | | |
| Sayfa Group (r | If the geometry, configuration, or material of an anchor device, including the | Not applicable – no alternative configuration, geometry or materials used | ope) Ltd | N/A |
| Group (E | structural anchor, differs from the one that has been tested as part of the anchor system, the anchor system shall be | Sayfa Group | Sp | |
| G _{ro} , | verified by testing to clause 5, or proven by calculation with the results recorded | Lurope) Ltd | C.46, | SAFATA |
| Group (Europe) Ltd | SPC4684F474 | Sayfa Group (Europe) Ltd | 684F474 | Sayri |
| | | Tyrope). | 0,845 | |

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| 4.2 Pre-testing verification and recording requirements It shall not be possible for elements of the anchor system to become unintentionally detached If an element can be removed it shall be designed to have at least 2 separate, consecutive, and deliberate manual actions For anchor systems which include removable elements, those shall be such that they cannot appear to be positively locked together when they are not, due to incorrect assembly would be visually evident Anchor points shall be designed to ensure easy engagement and free rotation of connectors and that connectors align in the preferred load-bearing position If a fall or overload indicator is incorporated, the indicator shall clearly show that a fall has occurred upon completion of the dynamic and static tests Unintentional detachment is unlikely during normal use Dintentional detachment is unlikely during normal use PAS: Unintentional detachment is unlikely during normal use PAS: Unintentional detachment is unlikely during normal use PAS: Oreater than 2 deliberate actions are required in order to remove the traveller from the rail Incorrect assembly would be visually evident Example: PAS: Oreater than 2 deliberate actions are required in order to remove the traveller from the rail Incorrect assembly would be visually evident Example: PAS: Oreater than 2 deliberate actions are required in order to remove the traveller from the rail Incorrect assembly would be visually evident Example: Oreater than 2 deliberate actions are required in order to remove the traveller from the rail Incorrect assembly would be visually evident Example: Oreater than 2 deliberate actions are required in order to remove the traveller from the rail Incorrect assembly would be visually evident Example: Oreater than 2 deliberate actions are required in order to remove the traveller from the rail Incorrect assembly would be visually evident Incorrect assembly would be visually evident Incorrect assembly would be visually evident Incorrect assemb | BS 8610:2017 | BS 8610:2017 | RESULT / COMMENT | UoM | PASS |
|--|--------------------|--------------------------|--|--------------|--------|
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| indicator is incorporated, the indicator shall clearly show that a fall has occurred upon completion of the | 14 | If a fall or overload | Not applicable – no fall indicators | | N/A |
| the indicator shall clearly show that a fall has occurred upon completion of the dynamic and static tests | | | included | | .0. |
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| completion of the dynamic and static tests | Salve | occurred upon | | Lin | |
| dynamic and static tests (Europe) Lto SPC1 | Wa C | completion of the | | · · · · | |
| (Europe) Ltd SPC4684F4T4 Group (E). SPC46 | Tour | dynamic and static tests | 19. | | |
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| Light ATA COLOR OF CASE | | 10 ₀₀ | 4E | 0. | |
| | | Ltd | ATA PROPERTY | 3,5 C | |

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|---|---|--|---------------------|--------------|
| BS 8610:2017 CLAUSE / TEST | BS 8610:2017 REQUIREMENT | RESULT / COMMENT | UoM (See note 1) | PASS FAIL |
| 4.2 Pre-testing verification and recording requirements | The mass of any element of an anchor system that is intended to be transported shall | Maximum weight of transportable parts of anchor: 24.5kg | C46 | PASS |
| Oup (Europe) Ltd | be less than 25kg The maximum rated load (<i>RL</i> _{max}) shall be a minimum of 100kg and | Maximum rated load per user: 100kg | N/A | PASS |
| | shall be round ed to nearest 0.1kN | Ltd | TATA | |
| 4.3 Materials | Metallic parts shall show no evidence of any corrosion that could affect the function of the device (white scaling or | Corrosion test in accordance with ISO 9227: 2017 - 96 hours Neutral Salt Spray, with a break for 1 hour at 24-hour intervals | Sayia | |
| SPC | tarnishing is acceptable) | Temperature: 35 °C Fall out rate: 1.93ml/hr pH of test solution: 6.5 Specific gravity of test solution: 1.032 | 7 (| Proup (E |
| 468 _{4F474} | Group (Europ | Rust and white scaling present on nuts of fixture elements. No effect to device function | See table 2 | PAS |
| Sayra Sayra | Wire ropes shall be made from stainless steel, or galvanized steel conforming to BS EN 12385-4 | Not applicable – no wire ropes | See note 2 | N/A |
| Save | Steel wire ropes shall be galvanized in accordance with ISO 2232. Other steel elements shall be | Not applicable – no wire ropes | tope) Ltd | N/A |
| Sayfa Group (E | galvanized in accordance with BS EN ISO 1461 | Sayra Group (Europe) Ltd | Sp _{C46} | |

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| BS 8610:2017 CLAUSE / TEST | BS 8610:2017 REQUIREMENT | RESULT / COMMENT | UoM (See note 1) | PASS FAIL |
| 4.3 Materials Group (Europe) Lto | Load-bearing textile elements shall only be used if the manufacturer can demonstrate that they incorporate sufficient protection against Ultraviolet degradation for their foreseeable life | Not applicable – no textile elements | 684E | N/A BAFATA Sayn |
| Sp(| Textile elements shall be made from virgin mono-filament or multi- filament synthetic fibres | Not applicable – no textile elements | 474 | N/A |
| o Ltd | The breaking tenacity of synthetic fibres shall be a minimum of 0.6 N/tex | Not applicable – no textile elements | See table 2 | N/A |
| SPC4684F474 | Threads shall be of a contrasting shade or colour to the webbing or rope | Not applicable – no textile elements | See note | N/A |
| | Connectors shall conform to EN 362 | Connectors are marked as compliant with EN 362 | Group (Eur | PASS |
| Say, D84F4T4 | Wire rope terminations shall not include U-bolt wire rope grips in any part of the anchor system | Not applicable – no wire ropes | | N/A |
| Sayfa Group | Materials used for the wire rope termination shall be compatible with the materials used for the wire rope | Not applicable – no wire ropes | ope) Lid | N/A |
| Group (E | the wire rope | Sayfa Group (Europe) Lid | SPC46 | `& _ |

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| FATA | Group (E | Sp | Save | | | |
| | BS 8610:2017 CLAUSE / TEST | BS 8610:2017 REQUIREMENT | RESULT / COMMENT | UoM (See note 1) | PASS / FAIL | Sa |
| Sayra | 4.4 Design and ergonomics | The load-bearing edges of anchor points that are holes shall have a minimum radius of 1mm | Load bearing edges have a minimum radius of 1mm | C46 | PASS | 9, |
| | (Europe) | Anchor systems shall not have sharp edges or | Exposed edges are rounded to prevent injury | | PASS | |
| | Ltd | burrs that may cause injury to the user. Exposed edges or corners shall be relieved either with a minimum | (Europe) Ltd | N/A SSAFATA | oayfa G | 040 |
| D (EL | rope), | radius of 0.5mm or a chamfer of no less than 0.5mm x 45° | TOUR 194 | .0. | | |
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| BS 8610:2017 CLAUSE / TEST | BS 8610:2017 REQUIREMENT | RESULT / COMMENT | UoM (See note 1) | PASS FAIL |
| 4.5.3.2 Type D1 Restraint – non- load-limiting | 4.5.3.2.1 The maximum number of users permitted shall be no more than three | Maximum number of users: 3 | N/A | PASS |
| (Europe) Ltd | 4.5.3.2.2 Anchor devices used as part of a D1 anchor system shall conform to the static strength | Position: Centre of longest span 12kN sustained for 3 minutes without failure | 684F. | San |
| Spa | requirements of BS EN 795:2012 clause 5.6.4 | See note 3 Position: Extremity anchor | N/A | PAS |
| Chobe) right | 4684F4T4 | 12kN sustained for 3 minutes without failure See note 3 | Sayra | er. |
| SpC460 | 4.5.3.2.3 When tested for static strength and deformation with the load applied via the | Position: Centre of longest span Required force: 9kN 9kN sustained for 3 minutes without | | GAD (E |
| , 845474 | anchor point on each traveller to: a) the rigid anchor line at the centre of the longest span permitted | failure Deformation: 11mm See note 3 | Group (| |
| Sayre | by the manufacturer; b) extremity anchors; c) intermediate anchors, where fitted; | | ± 50 N | Poe) Lta |
| TATA | d) corner anchors, where fitted; and e) entry/exit line fittings | Position: Extremity anchor Required force: 9kN 9kN sustained for 3 minutes without | See note 2 | PAS |
| Sayfa Group (F | and joints, cantilevers, and end stops, where fitted, the anchor system shall | failure Deformation: 4mm | opo) Ltd | Spo |
| Group (E) | hold the load and no part of the anchor system shall | See note 3 Sayfa Group (Europe) | .0. | |
| | demonstrate permanent deformation of more than 10mm | *IA "P (Europe) Lim | OPC46 | SAFATA |
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ADDITIONAL INFORMATION / NOTES

Table 2 – Additional uncertainty of measurement information (see note 1)

| CLAUSE | TEST / COMPONENT | UoM (see note 1) |
|----------------------|--|---|
| Gran | Temperature | ± 0.99 °C |
| Correción | Fall-out rate of collected solution | ± 2.25 ml (± 0.04 ml/hour for 24 hours) |
| Corrosion resistance | Specific gravity of collected solution | ± 0.0010 g/ml |
| resistance open | pH value of collected solution | ± 0.1 |
| - Lty | Angle of sample mounting (if applicable) | ± 1.44° |

Note 1 - 'UoM' denotes estimated Uncertainty of Measurement for stated test results. This uncertainty value is based on a standard uncertainty multiplied by a coverage factor k = 2, which provides for a confidence level of approximately 95%

Note 2 - Estimated uncertainty of measurement applied at point of test (e.g. to applied force or to tolerance limits) to ensure product meets requirements of the standard

Note 3 – Static strength testing carried out by manually increasing loading, therefore rate of stressing / crosshead velocity as per EN 364: 1992 Clauses 4.1.2.1 & 4.1.2.2 cannot be accurately determined (see VG11 recommendation for use sheet CNB/P/11.023 dated 25.10.2007)

Note 4 – Results for clauses 4.1, 4.2, 4.3 & 4.4 are taken from report reference SPC0352363 /2327 Issue 2.

* * * * * * * * * * * * * END OF REPORT

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Conditions of Use

Confidentiality and Dissemination

SATRA test reports may be forwarded to other parties provided that they are not changed in any way and are not marked as confidential. Test reports must not be published, for example by including it in advertisements, without the prior, written permission of SATRA.

Liability

Results given in this report refer only to the samples submitted for analysis and tested by SATRA. Comments are for guidance only.

A satisfactory test report in no way implies that the product tested is approved by SATRA and no warranty is given as to the performance of the product tested. SATRA shall not be liable for any subsequent loss or damage incurred by the client as a result of information supplied in the report.

Accreditation

Where the UKAS logo is included on the test report then tests marked ≠ fall outside the UKAS Accreditation Schedule for SATRA. Where no UKAS logo is included on the test report then none of the tests reported are covered by SATRA's UKAS Accreditation.

Tests marked ¥ are performed under SATRA's Flexible UKAS Schedule.

Uncertainty of Measurement and Decision Rules

Where values for uncertainty of measurement are included within the report then the uncertainty of the corresponding results are based on a standard uncertainty multiplied by a coverage factor k=2, which provides a coverage probability of approximately 95%.

When reporting results against a conformance statement (Pass/Fail or the allocation of a class or level) then uncertainty of measurement is taken into account based on a non-binary acceptance which itself is based on the guard band being equal to the expanded uncertainty.

Where the result corrected for uncertainty falls within the tolerance of the conformance statement then the risk of the conformance statement being a false accept or false reject is up to 2.5% and SATRA will in this instance quote a Pass/Fail, class, or level.

Where the result corrected for uncertainty falls outside of the tolerance of the conformance statement then the risk of the conformance statement being a false accept or false reject is up to 50%. In this instance SATRA will not provide a Pass/Fail statement or a class or level but will include information in the notes in relation to the result obtained.

Where a report contains SATRA guidelines values then uncertainty of measurement values have been taken into account when determining the guideline values and as such are not considered when determining pass/ fail criteria.