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TECHNICAL REPORT

%Sayfa Group (Europe) Ltd	SATRA reference:	SPC10467W6M9	16>W6.
Unit B1	0	2410	3
Research Point	Report ID/Issue number:	38023/2	
Shepshed	Your reference:	SpC70	Sa
Leicestershire	Date samples received:	De) Lt.	4
LE19 1WH	Date(s) work carried out:	06/03/2024 to 07/03/2024	
United Kingdom	Date of report:	04/06/2024	
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Testing Requirements

Testing of a counterweight davit arm described as "ESW.1500.3800.2U" in accordance with CEN/TS
16415:2013 type E for up to 2 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



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WORK REQUESTED

Samples of anchor device, described as "ESW.1500.3800.2U", were made available to SATRA on the 6th March 2024, for testing in accordance with CEN/TS 16415:2013 type E

CONCLUSIONS

SAMPLE REFERENCE	STANDARD	CLAUSE / PROPERTY	PASS / FAIL
ESW 1500 2800 211	CEN/TS 16415:2013 Type E	4.1 General	PASS
ESW.1500.3800.2U	CEN/13 10413.2013 Type E	4.2 Specific requirements – type E	PASS
TESTING		J Ltd	NoM9

TESTING

Testing was carried out in accordance with CEN/TS 16415:2013 between the 6th & 7th March 2024 in the presence of representatives from Sayfa Group

The anchor device is intended as a type E (Dead weight anchor) device

For the purposes of testing, the anchor device was installed onto concrete with 516kg in plate masses added to the anchor, with test forces applied in a vertical direction

Samples were tested as received, and were not subject to any pre-conditioning processes other than those stated in Sayfa Group (Europe) Ltd individual test clauses

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(Europe) Ltd SATRA Report Reference: SPC10467W6M9 2410

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Figure 1 - Anchor device described as "ESW.1500.3800.2U" Group (Europe) Ltd

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TEST RESULTS

Table 1 - Testing of anchor device described as "ESW.1500.3800.2U" in accordance with CEN/TS 16415:2013 as a type E device

Anchor devices intended for use by more than one person simultaneously shall conform to EN 795:2012 4.2.6.1 Specific requirements – Type E anchor dynamic performance test out on the same system in accordance with EN 795: 2012, for each additional user claimed. The test masses, or an equivalent force shall be applied to the line to simulate the number of users already fallen. 3 minutes after the drop, the displacement L of the leading edge of the anchor shall not exceed 1000mm and the anchor shall remain stationary. The displacements L & H shall be recorded 4.2.6.2 Specific requirements – Type E anchor maximum angle 4.2.6.3 Specific requirements. — The dynamic performance test shall be carried out at the maximum angle Anchor devices intended for use by more than one person is multaneously shall conform to EN 795: 2012 for each additional user claimed. The tests mass shall be carried out on the same system in accordance with EN 795: 2012, for each additional user claimed. The tests masses, or an equivalent force shall be applied to the line to simulate the number of users already fallen. 3 minutes after the drop, the displacement of anchor (mm Displacement of an	CEN/TS 16415:2013 CLAUSE / TEST	CEN/TS 16415:2013 REQUIREMENT	RESULT / COMMENT	PASS FAIL
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CEN/TS 16415:2013 CLAUSE / TEST	CEN/TS 16415:2013 REQUIREMENT	RESULT / COMMENT	PASS / FAIL]
4.2.6.4 Specific requirements – Type E anchor post arrest suspension test	After 15 minutes of the dynamic performance test, the anchor device shall hold 600kg (+100kg for each additional use) for 3 minutes with a maximum displacement of 10mm. The device shall remain stationary after 3 minutes.	Roof surface: Concrete Angle of roof: 5° Condition: Dry 600kg sustained for 3 minutes following the dynamic performance test without failure Additional displacement of anchor: 0mm Roof surface: Concrete Angle of roof: 5° Condition: Wet	PASS	ν _{6Λ}
(Europe) Ltd	Sayfa Group (E)	600kg sustained for 3 minutes following the dynamic performance test without failure Additional displacement of anchor:	Sayra	
4.2.6.5 Specific requirements – Type E anchor static	Metallic elements shall sustain a force of at least 13kN (+1kN for each additional user) for 3 minutes	13kN sustained for 3 minutes without failure	G _f	040
strength test	without release, and non-metallic elements shall sustain a force of at least 19kN (+1kN for each additional user) for 3 minutes without release	See notes 1 & 2	PASS	

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ADDITIONAL INFORMATION / NOTES

Table 2 – Additional uncertainty of measurement information

	ADDITIONAL INFORMA Table 2 – Additional uncertainty	1, ⁴⁶ >1 ₄ .	Ta Group Sh
So	CLAUSE	TEST / COMPONENT	UoM PRI TOTO
-43	Specific requirements – Type E anchor deformation test	Applied Force	±50N
	Specific requirements – Type E anchor dynamic performance test	Length Measured	±20mm
G ₆	Specific requirements – Type E anchor used with a retractable type fall arrester	Length Measured	±20mm
OUP	Specific requirements – Type E anchor static strength test	Applied Force	±50N
	Lid	Temperature	± 0.99 °C
		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 6>
		pH value of collected solution	y± 0.1
	SPCI	Angle of sample mounting (if applicable)	± 1.44°

Note 1 – 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 2 – 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) Payfa Group (Europe) Ltd 5. 10467W6M9

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(Europe) Ltd SATRA Report Reference: SPC10467W6M9 2410

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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.

Opinions and interpretations fall outside the UKAS Accreditation for SATRA.

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.

SATRA's guidelines provide recommendations that are based upon SATRA's knowledge and experience. The guidelines are intended to indicate conformance by providing information on the likely performance or characteristics of a property. As such, uncertainty of measurement is not applied when evaluating results against guideline recommendations.