



SATRA Technology Centre Ltd  
 Wyndham Way, Telford Way, Kettering,  
 Northamptonshire, NN16 8SD United Kingdom  
 Tel: +44 (0) 1536 410000  
 email: info@satra.com  
 www.satra.com

Sayfa Group (Europe) Ltd Unit B1 Research Point Shepshed, Loughborough Leicestershire LE19 1WH UK	SATRA reference:	SPC0339932 2244 3
	Report ID/Issue number:	25567/1
	Your reference:	
	Date samples received:	31/10/2022
	Date(s) work carried out:	14/11/2022 to 16/11/2022
	Date of report:	30/11/2022

## TECHNICAL REPORT

Testing of a davit arm described as "2500 x 2500 davit arm" in accordance with BS 8610:2017 types A1-7 for 2 users.

### Conditions of Issue:

This report may be forwarded to other parties provided that it is not changed in any way. It must not be published, for example by including it in advertisements, without the prior, written permission of SATRA.

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.

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 guideline 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.

Please note that where uncertainty of measurement values have not been included then uncertainty has not been applied to these results. SATRA uncertainty of measurement values are however available upon request.

Report signed by: Edward Brooks

Department: Safety Product Testing



# Technical Report

## WORK REQUESTED

Samples of "2500 x 2500 davit arm" were received by SATRA on the 14<sup>th</sup> November 2022, for testing in accordance with BS 8610:2017 types A1-7

## CONCLUSIONS

SAMPLE REFERENCE	STANDARD	CLAUSE / PROPERTY	PASS / FAIL
2500 x 2500 davit arm	BS 8610:2017	4.1 General requirements	PASS
		4.2 Pre-testing verification and recording requirements	Not fully assessed
		4.3 Materials	Not fully assessed
		4.4 Design and ergonomics	PASS
		4.5.1.1 Type A1 Restraint – non-load-limiting	PASS
		4.5.1.2 Type A2 Fall arrest – non-load-limiting Type A3 Rope access and work positioning – non-load-limiting Type A5 Rescue – remotely or self-operated – direct attachment – non-load-limiting	Not fully assessed
		4.5.1.3 Type A4 Rescue – accompanied descent – non-load-limiting Type A6 Rescue – remotely operated – redirect attachment – non-load-limiting Type A7 Evacuation – non-load-limiting	Not fully assessed

## TESTING

Testing was carried out in accordance with BS 8610:2017 between the 14<sup>th</sup> & 16<sup>th</sup> November 2022

The anchor device is intended as a type A (fixed to structure) device

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

For the purposes of testing, the anchor device was installed onto concrete, 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 individual test clauses



Figure 1 – Anchor described as "2500 x 2500 davit arm"



# Technical Report

## TEST RESULTS

Table 1 – Testing of "2500 x 2500 davit arm" in accordance with BS 8610:2017, Type A1-7 Non-load-limiting anchor

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 specified in the relevant test methods	The anchor system was tested in concrete		PASS
	Where the manufacturer permits loading in more than one direction, anchor systems shall be tested in each relevant principal safety critical direction	Not applicable – only 1 direction of loading		N/A
	Where alternative configurations of the same type of anchor device are to be made available, the worst configuration shall be tested, ensuring the limit is set for the configuration that could be offered	Not applicable – only 1 configuration		N/A
	If the geometry, configuration or material of an anchor device, including the structural anchor, differs from the one that has been tested as part of the anchor system, the anchor system shall be verified by testing to clause 5, or proven by calculation with the results recorded	Not applicable – only 1 geometry of anchor		N/A