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TECHNICAL REPORT

Pineapple Contracts Westmead Aylesford Maidstone Kent ME20 6XJ UK	SATRA reference:	FUR3075L8H3	
		2337	1
	Report ID/Issue number:	33285/1	
	Your reference:	NPDSL250823	
	Date samples received:	08/09/2023	
	Date(s) work carried out:	08/09/2023 to 20/10/2023	
	Date of report:	20/10/2023	

Testing Requirements

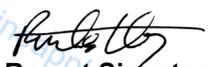
Testing of a chair, described by the customer as the 'Rock Bariatric Chair', to EN 16139:2013 Test Level 2, followed by a static load test to the seat only to 317kg and 500kg.

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Report Signed by:

Peter Westley


Report Signatory

ASSESSMENT OF THE ROCK BARIATRIC CHAIR

As requested by Pineapple Contracts, SATRA have assessed the seating submitted, as detailed below.

SAMPLE SUBMITTED

Sample reference: Rock Bariatric Chair
Testing conducted by: P. Westley



TESTS CARRIED OUT

EN 16139:2013 – Test Level 2 – Furniture – Strength, durability and safety - Requirements for non-domestic seating (for adults weighing up to 110kg).

Static Load test to the seat only as per EN 1728:2012, Clause 6.4 at 317kg (3110N) and then followed by 500kg (4905N) for 10 cycles, as requested by the customer. See Note 1.

CONCLUSION

The 'Rock Bariatric Chair', supplied for testing by Pineapple Contracts, has satisfied the relevant requirements of EN 16139:2013 – Test Level 2 – "Furniture – Strength, durability and safety - Requirements for non-domestic seating" except for Clause 7 (Information for use).

The 'Rock Bariatric Chair', supplied for testing by Pineapple Contracts, has satisfactorily completed a Static Load test to the seat only as per EN 1728:2012, Clause 6.4 at 317kg (3110N) and 500kg (4905N) for 10 cycles.

RESULTS

ROCK BARIATRIC CHAIR

EN 16139:2013 (Test Level 2)

Clause	Test Description	Result
4	Safety	
4.1	General	
a)	Accessible corners rounded or chamfered	Pass
b)	Edges of seat, back and arm rests rounded	Pass
c)	Edges of handles rounded or chamfered	N/A
d)	All other edges free of burrs and/or sharp edges	Pass
e)	Ends of hollow components closed or capped	N/A
-	Movable / adjustable parts have a safe design	N/A
-	Unintentional loosening of load bearing parts	Pass
-	Lubricated parts protected against user soiling	N/A
4.2	Shear and Squeeze Points	
4.2.1	Shear and squeeze points when setting up and folding	N/A
4.2.2	Shear and squeeze points under influence of powered mechanisms	N/A
4.2.3	Shear and squeeze points during use	Pass
4.3	Stability (see Table 2)	
4.3.1	General	Pass
4.3.2	Swivelling chairs	N/A
4.3.3	Non swivelling chairs	Pass
4.4	Rolling Resistance of the Unloaded Chair	N/A
4.5	Safety of Construction (see Table 1)	Pass
5	Safety, Strength and Durability (see Table 1)	Pass
6	Test Methods (see Table 1)	
7	Information for Use	N/T (see Note 2)

EN 16139:2013 (Test Level 2) – Table 1

Test	Clause 6 (Test Method)	Strength & Durability Tests	Result
1	EN 1728:2012, 6.4	Seat and back static load	Pass
2	EN 1728:2012, 6.5	Seat front edge static load	Pass
3	EN 1728:2012, 6.6	Vertical static load on back	Pass
4	EN 1728:2012, 6.8, 6.9	Foot rail/rest and leg rest static load	N/A
5	EN 1728:2012, 6.10	Arm sideways static load	N/A
6	EN 1728:2012, 6.11	Arm downwards static load	N/A
7	EN 1728:2012, 6.13.1, 6.13.2	Vertical upwards static load on arm rests	N/A
8	EN 1728:2012, 6.17	Seat and back durability	Pass
9	EN 1728:2012, 6.18	Seat front edge durability	Pass
10	EN 1728:2012, 6.20	Arm durability	N/A
11	EN 1728:2012, 6.21	Foot rest durability	N/A
12	EN 1728:2012, 6.15	Leg forward static load	Pass
13	EN 1728:2012, 6.16	Leg sideways static load	Pass
14	EN 1728:2012, 6.24	Seat impact	Pass
15	EN 1728:2012, 6.25	Back impact	Pass
16	EN 1728:2012, 6.26	Arm impact	N/A
17	EN 1728:2012, 6.27.1	Drop test (multiple seating) – TL 2 only	N/A
18	EN 1728:2012, 6.14	Auxiliary writing surface static load	N/A
19	EN 1728:2012, 6.22	Auxiliary writing surface durability	N/A

EN 16139:2012 – Table 2
Non-swivelling chairs (EN 1022:2005)

Clause	Test Description	Result	
		Before*	After*
6	All Seating		
6.2	Forwards overbalancing, all seating	Pass	Pass
6.3	Forwards overbalancing for seating with footrest	N/A	N/A
6.4	Sideways overbalancing, all seating without arms	Pass	Pass
6.5	Sideways overbalancing, all seating with arms	N/A	N/A
6.6	Rearwards overbalancing, all seating with backs	Pass	Pass
7	Seating with Variable Geometry		
7.3	Tilting chairs	N/A	
7.4	Rocking chairs		
7.5	Reclining chairs with footrest		
7.6	Footrest test		
7.7	Reclining chairs without footrest		

* The acceptance criteria of EN 16139:2013 requires that the applicable stability test(s) shall be carried out after the applicable strength and durability tests (see Table 1) but, following the order of the standard, they can also be carried out prior to the Table 1 tests.

Static Load Test

Test Method	Test Description	Result
EN 1728:2012, 6.4	Static Load – Seat only (317kg / 3110N)	No Damage (see Note 3)
EN 1728:2012, 6.4	Static Load – Seat only (500kg / 4905N)	No Damage (see Note 3)

N/A denotes clause 'Not Applicable'

N/T denotes clause 'Not Tested'.

COMMENTS

- Note 1: Tested to EN 16139:2013 Test Level 2 immediately before this testing.
- Note 2: As no "Information for use" was supplied, the sample was not assessed against the requirements of this clause.
- Note 3: Only the seat load was applied, as requested by the customer.



Picture 1: Front view of the 'Rock Bariatric Chair'



Picture 2: Rear view of the 'Rock Bariatric Chair'



Picture 3: Side view of the 'Rock Bariatric Chair'

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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.

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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.
