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TECHNICAL REPORT

Pineapple Contracts Westmead Aylesford Maidstone Kent ME20 6XJ United Kingdom	SATRA reference:	FUR2007178	
		2424	1
	Report ID/Issue number:	41081/2	
	Your reference:	LLNPD10062024	
	Date samples received:	10/06/2024	
	Date(s) work carried out:	10/06/2024 to 15/08/2024	
	Date of report:	16/08/2024	

Testing Requirements

Testing of a sofa, described by the customer as the 'ADORA Sofa', to EN 16139:2013 Test Level 2, followed by seat only static load test to 500kg.

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Report Signed by:

Johnny Worthington


Report Signatory

ASSESSMENT OF THE ADORA SOFA

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

SAMPLE SUBMITTED

Sample reference:

ADORA Sofa

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). See Note 1.

Seat only Static Load test midway between the two seating positions as per EN 1728:2012 Clause 6.4 at 500kg (4905N).

CONCLUSION

The 'ADORA Sofa', 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 'ADORA Sofa', 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 500kg (4905N).

RESULTS

ADORA SOFA

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

Clause 6 (Test Method)	Strength & Durability Tests	Result
EN 1728:2012, 6.4	Seat and back static load	Pass
EN 1728:2012, 6.5	Seat front edge static load	Pass
EN 1728:2012, 6.6	Vertical static load on back	Pass
EN 1728:2012, 6.8, 6.9	Foot rail/rest and leg rest static load	N/A
EN 1728:2012, 6.10	Arm sideways static load	Pass
EN 1728:2012, 6.11	Arm downwards static load	Pass
EN 1728:2012, 6.13.1, 6.13.2	Vertical upwards static load on arm rests	N/A
EN 1728:2012, 6.17	Seat and back durability	Pass
EN 1728:2012, 6.18	Seat front edge durability	Pass
EN 1728:2012, 6.20	Arm durability	Pass
EN 1728:2012, 6.21	Foot rest durability	N/A
EN 1728:2012, 6.15	Leg forward static load	N/A
EN 1728:2012, 6.16	Leg sideways static load	N/A
EN 1728:2012, 6.24	Seat impact	Pass
EN 1728:2012, 6.25	Back impact	Pass
EN 1728:2012, 6.26	Arm impact	Pass
EN 1728:2012, 6.27.1	Drop test (multiple seating) – TL 2 only	Pass
EN 1728:2012, 6.14	Auxiliary writing surface static load	N/A
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	N/A	N/A
6.5	Sideways overbalancing, all seating with arms	Pass	Pass
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	Cycles	Hold Time	Result
EN 1728:2012, 6.4	Static Load – Centre of the seat span only (500kg / 4905N)	10	10 Seconds	No Damage (see Note 3)

N/A denotes clause 'Not Applicable'

N/T denotes clause 'Not Tested'.

COMMENTS

Note 1: Tested as a two seater.

Note 2: As no "Information for use" was supplied, the sample was not assessed against the requirements of this clause.

Note 3: Tested to EN 16139:2013 Test Level 2 immediately prior to this testing.

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Picture 1: Front view of the 'ADORA Sofa'



Picture 2: Rear view of the 'ADORA Sofa'



Picture 3: Side view of the 'ADORA Sofa'

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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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