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TECHNICAL REPORT

Pineapple Contracts Westmead Aylesford Maidstone Kent ME20 6XJ United Kingdom	SATRA reference:	FUR2019241
		2506
		1
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	Date of report:	03/06/2025

Testing Requirements

Testing of a sofa bed, described by the customer as the 'Magna Sofa Bed'
to EN 16139:2013 Test Level 2 and EN 1725:2023 (Contract Level)
(Excluding Test 10 (Durability of Sofa Bed Action))

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Report Signed by:

Johnny Worthington

Report Signatory

ASSESSMENT OF THE MAGNA SOFA BED

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

SAMPLE SUBMITTED

Sample reference: Magna Sofa Bed
Testing conducted by: P Westley & M Evans



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.

EN 1725:2023 – Furniture – Beds – Safety requirements and test methods. Excluding Test 10 (Durability of Sofabed Action). Contract Level.

CONCLUSION

The 'Magna Sofa Bed', 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 'Magna Sofa Bed' submitted for testing by Pineapple Contracts, has satisfied the relevant requirements of EN 1725:2023 – Furniture – Beds – Safety requirements and test methods, except for Clauses 6.3.3 (Shear & compression points under influence of powered mechanisms) , 6.3.4 (Shear & compression points during use), 7 (Information for use) and excluding Test 10 (Durability of Sofabed Action). Contract Level.

RESULTS

MAGNA SOFA BED

EN 16139:2013 (Test Level 2)

Clause	Test Description	Result
4	Safety	
4.1	General	
a)	Accessible corners rounded or chamfered	Pass (see Note 2)
b)	Edges of seat, back and arm rests rounded	Pass
c)	Edges of handles rounded or chamfered	N/A (see Note 2)
d)	All other edges free of burrs and/or sharp edges	Pass (see Note 2)
e)	Ends of hollow components closed or capped	N/A (see Note 2)
-	Movable / adjustable parts have a safe design	N/A (see Note 2)
-	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 (see Note 2)
4.2.2	Shear and squeeze points under influence of powered mechanisms	N/A (see Note 2)
4.2.3	Shear and squeeze points during use	Pass (see Note 2)
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 3)

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 16139:2013 – 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.

#EN 1725:2023

Clause	Test	Result
6	Safety Requirements	
6.1	General Requirements	
a)	Edges which are directly in contact with the user are rounded and chamfered	Pass
b)	All other edges accessible during intended use are free from burrs and/or sharp edges and corners	Pass
	Moveable and adjustable parts shall be designed so that injuries and inadvertent operation are avoided	Pass
	It shall not be possible for any load bearing part of the bed to come loose unintentionally	Pass
6.2	Holes in tubular or rigid components	Pass (see Note 4)
6.3	Shear and compression points	N/T (see Note 5)
6.3.1	General	
6.3.2	Shear and compression points when setting up and folding	
6.3.3	Shear and compression points under influence of powered mechanisms	
6.3.4	Shear and compression points during use	
6.4	Entanglement hazards	
6.4.1	General	
6.4.2	Requirements	
	Pulls, cords and similar parts shall have a maximum free length of 220mm	N/A
	Where pulls, cords and similar parts are attached to the bed base	N/A
	If it is possible to form a loop with cords	N/A
	Monofilament threads shall not be used	N/A

#EN 1725:2023 (Cont'd)

Clause	Test	Result
6.5	Durability of electrically operated bed mechanism	See Test 11
6.5.1	Requirement	N/A
6.6	Stability, strength, and durability	
6.6.1	General	
Test	Reference	
1. Vertical static load test on bed base	ISO 19833:2018, 6.3.1	Pass
2. Vertical static load on side rail	ISO 19833:2018, 6.3.2	Pass
3. Horizontal static load on headboard of beds ≤1200mm in width	ISO 19833:2018, 6.4.1	N/A
4. Horizontal static load on headboard of beds >1200mm in width	ISO 19833:2018, 6.4.2	N/A
5. Horizontal static load test for beds without headboards and for all beds with folding legs (with or without headboards)	ISO 19833:2018, 6.4.3	Pass
6. Vertical durability test of bed base	ISO 19833:2018, 6.5.1	
Vertical durability of the bed base tested in different positions	Position A	Pass
	Position B	Pass
	Position C	Pass
	Position D	Pass
7. Horizontal durability test of bed frame	ISO 19833:2018, 6.5.2	Pass
8. Vertical impact test	ISO 19833:2018, 6.6	
Impactor to fall freely from 180mm onto mattress at positions	Position A	Pass
	Position B	Pass
	Position C	Pass
	Position D1	Pass
	Position D2	Pass
	Position D3	Pass
	Position D4	Pass
	Position E	Pass

#EN 1725:2023 (Cont'd)

Clause	Test	Result
9. Durability of mechanisms for lifting bed bases	ISO 19833:2018, 7.2	N/A
10. Durability of sofa bed function	EN 13759:2012	N/T (see Note 6)
11. Durability of electrically operated beds	6.5	N/A
12. Stability	ISO 19833:2018, 6.2	Pass
Clause		
7 Information for use		
A) Assembly instructions, where applicable		N/T (see Note 3)
B) Care and maintenance		N/T (see Note 3)
C) Size of recommended mattress, if applicable		N/A
D) Maximum weight of mattress (electrically operated beds/lifting bed mechanism)		N/A

N/A denotes clause 'Not Applicable'.

N/T denotes clause 'Not Tested'.

N/R denotes clause 'Not Reported'.

COMMENTS

Note 1: Tested as a Two Seater.

Note 2: Only the sofa function was considered, not the bed (or it's mechanism).

Note 3: As no "Information for use" was supplied, the sample was not assessed against the requirements of this clause.

Note 4: Holes in the tubular frame of between 8mm and 12mm were identified. See Pictures 6, 7 and 8.

Update 30/05/25: Plastic push rivets were received, these were fitted, and the Clause 6.2 (Holes in tubular or rigid components) was re-assessed, achieving a 'Pass'.

Note 5: At the request of the customer this clause was omitted.

Note 6: Due to equipment limitations SATRA are not able to test this clause.



Picture 1: Front view of the 'Magna Sofa Bed'



Picture 2: Front (Bed Fully Extended) view of the 'Magna Sofa Bed'



Picture 3: Rear view of the 'Magna Sofa Bed'



Picture 4: Side view of the 'Magna Sofa Bed'



Picture 5: Side (Bed Fully Extended) view of the 'Magna Sofa Bed'



Picture 6: 8mm Probe Inserted view of the 'Magna Sofa Bed'



Picture 7: Plastic Rivets Fitted view of the 'Magna Sofa Bed'



Picture 8: Plastic Rivets Fitted view of the 'Magna Sofa Bed'

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