

Emdon AB
Giggvägen 1
29637 ÅHUS
SWEDEN

Testing of seating furniture according to EN 12727:2016

(3 appendices)

Customer:	Emdon AB
Test object/ID:	Ranked seating/Jaxon (300 mm)
Test method:	EN 12727:2016 Furniture – Ranked seating – Requirements for safety, strength and durability. Test severity 1
Scope:	Complete test
Date of test:	2024-10-11 – 2024-11-18
Test result:	The tested object passed the test
Reservation:	The test results in this report apply solely to the specimen tested
Test environment:	23 ± 2°C and 50 ± 5% relative humidity
Measurement uncertainty:	Decision rule according to EN ISO IEC 17025:2018 clause 3.7 No account is taken of measurement uncertainty when reporting numerical results
Additional information:	

RISE Research Institutes of Sweden AB

Department Building and Real Estate - Technical Wood Assessment

Performed by

Examined by



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Appendices

1. Test result (2 pages)
2. Test object (1 page)
3. Pictures (2 pages)

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Accred. No. 1002
Testing
ISO/IEC 17025

Appendix 1

Test result

Abbreviations: N/A = Not applicable
N/T = Not tested

Table 1

1.	Safety	EN 12727	Result
1.1	<p><u>General requirements</u></p> <p>The seating shall be so designed as to minimise the risk of injury to the user.</p> <p>All accessible parts shall be so designed that physical injury and damage are avoided.</p> <p>This requirement is met when:</p> <ul style="list-style-type: none">a) accessible corners are rounded or chamfered;b) all other edges are free from burrs and rounded or chamfered;c) ends of hollow components with a diameter greater than 7 mm and less than 12 mm, where the accessible depth is greater than 10 mm, are closed or capped. <p>Movable and adjustable parts shall be designed so that injuries and inadvertent operation are avoided.</p> <p>It shall not be possible for any load bearing part of the seating to come loose unintentionally.</p> <p>All parts which are lubricated to assist sliding shall be designed to protect users from lubricant stains when in normal use</p>	4.1	Pass
1.2	<p><u>Shear and squeeze points</u></p> <p>With the exception of tipping seats there shall be no shear and squeeze points created by parts of the seating operated by powered mechanisms, e.g. springs and gas lifts.</p> <p>There shall be no shear and squeeze points created by forces applied during normal use as well as during normal movements and actions</p> <p>Note!</p> <p>Shear and squeeze points that are created only during manually setting up and folding are acceptable, because the user can be assumed to be in control of his/her movements and to be able to cease applying the force immediately upon experiencing pain.</p>	4.2	Pass

Appendix 1

Table 2

2.	Strength, durability	Reference EN 1728	Cycles	EN 12727 Severity 1	Result
2.1	Seat and back static load test	6.4	10	Seat: 1300 N	Pass
2.2	Seat front edge static load test	6.5	10	1300 N	Pass
2.3	Horizontal forward static load test on back rests	6.7	10	-	N/A
2.4	Vertical static load on back rests	6.6	10	-	N/A
2.5	Arm sideways static load test	6.10	10	400 N	N/A
2.6	Arm downwards static load test	6.11	10	800 N	N/A
2.7	Combined seat and back durability test	6.17	50 000	Seat: 1000 N	Pass
2.8	Seat front edge durability test	6.18	50 000	800 N	Pass
2.9	Horizontal forward durability test on back rests	6.7	-	-	N/A
2.10	Arm durability test	6.20	-	-	N/A
2.11	Seat impact test	6.24	10x2	180 mm	Pass
2.12	Back impact test	6.25	10	210 mm/68°	N/A
2.13	Arm impact test	6.26	10	210 mm/68°	N/A
2.14	Tipping seat operation	6.23	25 000		Pass
2.15	Vertical static test on auxiliary writing surfaces	6.14	10	200 N	N/A
2.16	Auxiliary writing surface durability test	6.22	10 000	150 N	N/A

Appendix 2

Test object

Test object/ID: Ranked seating/Jaxon (300 mm)

Dimensions

Width (seat): 300 mm

Width: 360 mm

Depth: 320 mm

Seat height: 500 mm

Mass: 2.3 kg

Components

Hinges: Steel, 2 mm

Seat: Laminated wood, 21 mm

Sampling: The test object was selected by the customer

Date of arrival at 2024-10-10

RISE test laboratory:

Observed defects before testing: No defects

Appendix 3

Pictures



Figure 1



Figure 2



Figure 3



Figure 4

Appendix 3



Figure 5



Figure 6



Figure 7

Verification

Transaction 09222115557532519287

Document

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