

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:	$23 \pm 2^\circ\text{C}$ and $50 \pm 5\%$ 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



Annika Ahagen

Examined by



Bengt-Åke Andersson

Appendices

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

RISE Research Institutes of Sweden AB

Postal address
Box 857
501 15 BORÅS
SWEDENOffice location
Brinellgatan 4
504 62 Borås
SWEDENPhone / Fax / E-mail
+46 10-516 50 00
+46 33-13 55 02
info@ri.se

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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
RISE test laboratory: 2024-10-10

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

1287560A Emdon AB Jaxon Fällsits EN 12727_2016

Main document

6 pages

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Signatories

Bengt-Åke Andersson (BA)

RISE Research Institutes of Sweden AB

Company reg. no. 556464-6874

bengt-ake.andersson@ri.se



Signed 2024-11-25 11:05:24 CET (+0100)

Annika Ahagen (AA)

RISE Research Institutes of Sweden AB

Company reg. no. 556464-6874

annika.ahagen@ri.se



Signed 2024-11-25 13:06:23 CET (+0100)

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