



Test report: Compatibility of Circuform sofa non-domestic Vert with relevant requirements on stability, strength and durability according to NEN-EN 16139:2025

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If not stated otherwise the tests have been performed at this address.

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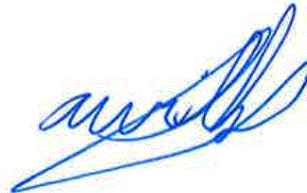
Appendices: 3

Project number: 25.0537

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Measurement uncertainty is available.



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1 Assignment

On November 11, 2025 Circuform commissioned SHR to examine a non domestic chair for compatibility with relevant requirements on stability, strength and durability according to the latest version of European standards.

2 Execution of the test

2.1 Identification and description of the samples

For the test, the sample mentioned in the table below, were delivered at SHR on 29-10-2025.

Delivered sample.

Amount	Code	Description
1	250537-2	Sofa element Vert

See Appendix 1 for photos of the delivered and tested chair.

2.2 Method

The sofa element has been examined on relevant requirements on stability, strength and durability according to NEN-EN 16139:2025, at test level L2.

NEN-EN 16139:2025 refers to the standards NEN-EN 1728:2012 and NEN-EN 1022 for the performance of the tests.

2.3 Period of the test

The tests were executed from 05-11-2025 till 02-12-2025.

3 Results of the test

Results of each individual test are shown in Appendix 2.

4 Conclusion

The examined sofa Vert does comply with all relevant stability, strength and durability requirements of test level L2 according to NEN-EN 16139:2025.

Literature

NEN-EN 1022:2005 Domestic furniture - Seating - Determination of stability.

NEN-EN 1335-2:2009 Office furniture - Office work chair - Part 2: Safety requirements.

NEN-EN 1335-3:2009 Office furniture - Office work chair - Part 3: Test methods.

NEN-EN 1335-3/C1:2009 (en fr du) Office furniture - Office work chair - Part 3: Test methods.

NEN-EN 16139:2025 (en) Furniture - strength, durability and safety - Requirements for non-domestic seating.

NEN-EN 1728:2012 Furniture - Seating - Test methods for the determination of strength and durability.

NEN-EN 1728/C1:2013 (en) Furniture - Seating - Test methods for the determination of strength and durability.

NPR 1813:2025 Ergonomie - Richtlijn voor de toepassing van kantoormeubelen en werkplek accessoires - Toelichting bij NEN-EN 1335, NEN-EN 527 en NEN-EN 16139.

Appendix 1 Photos of tested product – Circuform, Vert



Photo 1: Tested product – front view



Photo 2: Tested product – side view



Photo 3: Tested product – back view



Photo 4: Tested product – bottom view



Photo 5: Tested product – detail glider

Appendix 2 Specification of results –Circuform, Vert

✓ = complies X = does not comply n.a. = not applicable

Table 1: General safety according to NEN-EN 16139:2025.

par.	requirement	result	rem.
4.1 a	Accessible corners are rounded or chamfered	✓	
4.1 b	The edges of the seat, back rest and arm rests which are in contact with the user when sitting in the chair are rounded or chamfered	✓	
4.1 c	The edges of handles are rounded or chamfered in the direction of the force applied	n.a.	
4.1 d	All other edges are free from burrs and rounded or chamfered	✓	
4.1 e	The ends of hollow components are closed or capped	n.a.	
	Movable and adjustable parts shall be designed so that injuries and inadvertent operation are avoided	n.a.	
	It shall not be possible for any load bearing part of the seating to come loose unintentionally	✓	
	All parts which are lubricated to assist sliding shall be designed to protect users from lubricant stains when in normal use	n.a.	

Table 2: Stability swivelling chairs tested according to NEN-EN 1335-3:2009.

par.	test	result	rem.
7.1.1	Front edge overturning	n.a.	
7.1.2	Forwards overturning	n.a.	
7.1.3	Forwards overturning for chairs with footrest	n.a.	
7.1.4	Sideways overturning for chairs without arm rests	n.a.	
7.1.5	Sideways overturning for chairs with arm rests	n.a.	
7.1.6	Rearwards overturning for chairs without back rest inclination	n.a.	
	Rearwards overturning for chairs with adjustable back rest inclination	n.a.	
7.1.7	Front edge overturning	n.a.	
	Forwards overturning	n.a.	

Table 3: Stability non-swivelling seating tested according to NEN-EN 1022:2005.

par.	test	result	rem.
6.2	Forwards overbalancing	✓	
6.3	Forwards overturning for seating with foot rest	n.a.	
6.4	Sideways overbalancing, all seating without arms	✓	
6.5	Sideways overbalancing, all seating with arms	n.a.	
6.6	Rearwards overbalancing, all seating with backs	✓	
7.3	Rearwards overbalancing Tilting chairs	n.a.	
7.4	Rearwards overbalancing Rocking chairs	n.a.	
7.5	Reclining chairs with foot rest	n.a.	

Table 4: Rolling resistance according to NEN-EN 1335-3:2009.

par.	test	measurement	result	rem.
7.4	Rolling resistance of the unloaded chair $\geq 12\text{N}$		n.a.	

Remark:

The tests described in table 1 till 4 are performed after the tests described in table 5 were completed.

Par. refers to the standard NEN-EN 1728:2012

Loading refers to the standard NEN-EN 16139:2025 paragraph 6.

Result is the outcome of the assessment according to the standard NEN-EN 16139:2025 paragraph 5, after performing the test

- a) there are no fractures of any member, joint or component;
- b) there are no loosening of joints intended to be rigid;
- c) no major structural element is significantly deformed;
- d) the chair fulfils its functions after removal of the test loads.

Table 5: Strength and durability according to NEN-EN 16139:2025.

par.	test	loading L2	result	rem.
6.4	Seat and back static load test	10x seat 2.000 N back 700 (max.)	✓	
6.5	Seat front edge static load test	10x 1.600 N	✓	
6.6	Vertical static load on back	10x seat 1.800 N, back 900 N	✓	
6.8, 6.9	Foot rest and leg rest static load test	10x 1.600 N	n.a.	
6.10	Arm sideways static load test	10x 900 N	n.a.	
6.11	Arm downwards static load test	10x 900 N	n.a.	
6.13.1, 6.13.2	Vertical upwards static load on arm rests	10x 1.200 N	n.a.	
6.17	Seat and back durability test, seat 1000N, back 300N	200.000x	✓	
6.18	Seat front edge durability test, force 800N	100.000x	✓	
6.20	Arm durability test, force 400N	60 000x	n.a.	
6.21	Foot rest durability test force 1000N	100.000x	n.a.	
6.15	Leg forward static load test	10x seat 1.800 N, kracht 620 N	✓	

6.16	Leg sideways static load test	10 x seat 1.800 N, kracht 760 N	✓	
6.24	Seat impact test	10x Drop height 300 mm	✓	
6.25	Back impact test	10 x drop height 330/angle 48°	✓	
6.26	Arm impact test	10 x drop height 330/angle 48°	n.a.	
6.27.1	Drop test (multiple seating) seat)	2x 5x drop height 450 mm	n.a.	
6.14	Auxiliary writing surface static load test	10x 300 N	n.a.	
6.22	Auxiliary writing surface durability test	20.000x 150 N	n.a.	

Table 6: Instruction for use and maintenance according to NEN-EN 16139:2025.

par.	requirement	res.	rem.
7 a)	Information regarding the intended use	✓	1)
7 b)	If the chair is fitted with adjusting mechanisms: instruction for operating the adjusting mechanisms	n.a.	
7 c)	Assembly instructions, where applicable	n.a.	
7 d)	Instruction for the care and maintenance of the chair	✓	1)
6 e)	If the seating is fitted with castors: information on the choice of castors in relation to the floor surface	n.a.	
6 f)	If the seating is fitted with adjustment mechanisms comprising an energy accumulator, an additional note is required pointing out that only instructed personnel may replace and maintain adjustment mechanisms containing energy accumulators	n.a.	

Remark:

1) See Appendix 3.

Appendix 3 Information for use provided by Circuform



Gebruiksaanwijzing en onderhoudsvoorschrift

Stoffen bank – EPS-basis met comfortschuim

1. Toepassingsgebied en bedoeld gebruik

Deze bank is ontworpen en vervaardigd voor binnen gebruik in de kantoor- en onderwijssector, waaronder kantoren, onderwijsinstellingen, wachtruimtes en studieuomgevingen.

Het product is bedoeld voor:

- Zittend gebruik door één of meerdere personen;
- Gebruik in professionele omgevingen met een normaal tot intensief zitgebruik;
- Tijdelijk verblijf, zoals werken, studeren, wachten of overleg.

De constructie bestaat uit een Expanded Polystyrene (EPS) **basis** met een vulling van **comfortschuim**, gericht op duurzaam zitcomfort en ergonomische ondersteuning. De bank heeft met goed gevolg de relevante testen doorstaan en voldoet bij correct gebruik aan de gestelde functionele eisen.

2. Beperkingen van gebruik

Het product is **niet ontworpen voor**:

- Gebruik buitenshuis;
- Gebruik in vochtige of natte ruimtes;
- Staan, springen of andere dynamische belasting;
- Gebruik als ligmeubel of slaapvoorziening;
- Blootstelling aan open vuur, hoge temperaturen of scherpe objecten.

Onjuist of oneigenlijk gebruik kan leiden tot verminderde functionaliteit, voortijdige slijtage of beschadiging en valt buiten de beoogde toepassing.



Onderhoudsvoorschrift

3. Algemene gebruiks- en onderhoudscondities

- De bank dient te worden geplaatst op een stabiele, vlakke en droge ondergrond.
- Directe en langdurige blootstelling aan zonlicht dient te worden vermeden in verband met mogelijke verkleuring van de stoffering.
- Plaats het product niet in directe nabijheid van warmtebronnen.

4. Reiniging en onderhoud van de stoffering

- Regelmatig reinigen door middel van stofzuigen met een zachte meubelborstel.
- Bij lichte vervuiling reinigen met een licht vochtige doek.
- Indien noodzakelijk mag een mild, niet-agressief reinigingsmiddel worden gebruikt.
- Gebruik van oplosmiddelen, bleekmiddelen of schurende reinigingsproducten is niet toegestaan.
- Overmatige bevochtiging van de stof moet worden vermeden.

5. Onderhoud van het comfortschuim

- Het toegepaste comfortschuim is onderhoudsarm en geschikt voor professioneel gebruik.
- Langdurige puntbelasting dient te worden vermeden om vervorming tegen te gaan.
- Bij normaal en correct gebruik behoudt het schuim zijn ondersteunende en comforteigenschappen gedurende de beoogde levensduur.

6. Inspectie en levensduur

- Periodieke visuele inspectie wordt aanbevolen, met aandacht voor:
 - slijtage van de stoffering;
 - structurele beschadigingen of vervormingen.
- Bij naleving van deze gebruiksaanwijzing en onderhoudsvorschriften is het product geschikt voor langdurig gebruik in professionele omgevingen.



7. Veiligheidsinstructies

- Gebruik het product uitsluitend overeenkomstig het bedoelde gebruik.
- Verplaats de bank door deze op te tillen; schuiven over de vloer wordt afgeraden.
- Bij constatering van schade of instabiliteit dient het product niet verder te worden gebruikt.