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Norway

Fürth, 05 June 2025

TEST REPORT No. FUHLFP2024-05688

Date sample received: 06 August 2024
Period of testing: 06 August 2024 – 05 June 2025
Technical Director: Kerstin Scharrer

Test Item: Conference / Visitor chair NU series, including models:

- 20V3
- 20HW
- 20R
- 20HS
- 20F
- 20HC

Test: General and mechanical safety tests

Determination:

The conference chair NU series, models “20V3”, “20HW”, “20R” and “20HS” have been tested in accordance with EN 16139 (test level 1) and the current state of the art.

The 4 submitted models do represent all characteristics of the whole “NU” series which also includes further models “20F” and “20HC”, which were not necessary to submit for testing.

In summary, the general and mechanical safety requirements were **met**.

Technical data and results as well as detailed test conditions and requirements are contained in the following pages.

Reviewed by:

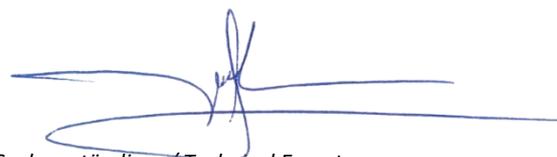
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Product identification:

Test sample: Conference / Visitor
Model name: "20V3", "20HW", "20R", and "20HS"
Item number: --

Manufacturer: Flokk sp.z.o.o
UL Górnicza 8
62-700 Turek
Poland

Number of test samples: 1 of each model
Distributor: Flokk AS
Delivered on: 06.08.2024
Delivered by: Flokk sp.z.o.o

Product documents:

Instructions for use

Scope of the investigations:

- EN 16139:2013 + AC:2013- Furniture - Strength, durability, and safety - Requirements for non-domestic seating.

Legend:

Abbreviations:

* = Test method is not part of the accreditation scope
** = Outsourcing
n.a. = not applicable
n.t. = not tested
n.d. = not determinable (< LoQ)
LoQ = limit of quantification
CS = Combined sample
P = passed
F = failed

Applicability of test results:

Tolerances unless otherwise specified the following tolerances apply:

The tests specify the use of forces. However, masses may be used. In that case, as equivalent for 10 N a mass 1 kg can be calculated.

The test results refer solely to the samples tested.

The digital pictures shown in this report are for additional information only and are not part of this report.



Test equipment list

The test equipment list contains a list of the measuring tools used and measuring equipment, gauges, templates and load weights that were used in accordance with the scope of the investigations.

Testing machines and devices as well as any connections that are necessary for the performance of tests are not an integral part of the test equipment list.

The following test equipment were available for testing in accordance with the scope of the investigations:

Clause	Test equipment	Equipment no.
General test	Ruler	PM_HL_18.321
General test	Scale	PM_HL_18.314
General test	Band ruler 3000 mm	PM_HL_18.376
General test	Calliper	PM_HL_17.070
Strength and durability test	Load cell 5 kN	PM_HL_18.358
Strength and durability test	Load cell 5kN	PM_HL_18.359
Strength and durability test	Load cell 5kN	PM_HL_18.360
Strength and durability test	Load cell 5 kN	PM_HL_18.361
Strength and durability test	Load cell 2 kN	PM_HL_18.362
Strength and durability test	Load cell 5,5 kN	PM_HL_18.363
Strength and durability test	Seat dummy	PM_HL_18.199
Stability	Pull-Push-Gauge	PM_HL_17.026
Stability	Stability Table	PM_HL_18.107
Stability	Protractor	PM_HL_18.226
Stability	Stamp	PM_HL_18.108
Stability	Armrest stamp	PM_HL_18.051
Stability	Load disc 10 Kg	PM_HL_18.234
Stability	Load disc 10 Kg	PM_HL_18.233
Stability	Load disc 10 Kg	PM_HL_18.235
Stability	Load disc 10 Kg	PM_HL_18.238
Stability	Load disc 10 Kg	PM_HL_18.230
Stability	Load disc 5 Kg	PM_HL_18.369
Stability	Load disc 2,5 Kg	PM_HL_17.345
Stability	Load disc 0,5 Kg	PM_HL_18.263
Stability	Load disc (wood)	PM_HL_18.216
Stability	Load disc (wood)	PM_HL_18.217
Stability	Load disc (wood)	PM_HL_18.218
Stability	Load disc (wood)	PM_HL_18.219
Stability	Load disc (wood)	PM_HL_18.220
Stability	Load disc (wood)	PM_HL_18.221
Stability	Load disc (wood)	PM_HL_18.222
Stability	Load disc (wood)	PM_HL_18.223
Stability	Load disc (wood)	PM_HL_18.224
Stability	Load disc (wood)	PM_HL_18.225

Clause	Test equipment	Equipment no.
Stability	Load disc (wood)	PM_HL_18.226
Stability	Load disc (wood)	PM_HL_18.227
Stability	Load disc (wood)	PM_HL_18.228
Stability	Load disc (wood)	PM_HL_18.229
Loading point template - A-B	Measurement template	PM_HL_18.109

General Testing

Technical characteristics

General dimensions

Parameters	20V3	20HW	20R	20HS	20F	20HC
Depth (mm):	580	590	550	690	700	770
Height (mm):	740	740	740	740	740	740
Width (mm):	600	600	600	690	700	770
Net weight (kg):	11.0	10.5	22.0	11.0	12.0	11.5

Product description:

Upholstered visitor chair models of NU series with different bases (4 leg wood, sledge, 4 leg metal, Foot plate with spindle, four-star aluminium base, swivel version on castors).

Photo documentation:

Model 20V3



Pic.1: View I

Pic.2: View II

Model 20HW



Model 20R



Model 20HS



Model 20F



Model 20HC



Technical Tests

Test method/Requirements	Test parameter/Results	Verdict
<p>Strength, durability, and safety according to EN 16139:2013, Level 1</p> <p>Safety</p> <p>The seating shall be so designed, that the injury risk of the user is minimized.</p> <p>All accessible components shall be so designed, that a physical injury and other hazards are avoided.</p> <p>This requirement is fulfilled, if:</p> <ul style="list-style-type: none"> a) all accessible corners are rounded or chamfered; b) the edges of the seat, back and armrest which the user is in contact with during sitting, are rounded or chamfered; c) the edges of the handles in direction of the application are rounded or chamfered; d) all other edges are free of burrs, rounded or chamfered e) ends of hollow tubulars are covered or capped. <p>Movable and adjustable components are so designed, that injuries and unintended operation are avoided.</p> <p>No load bearing component of the seating shall get loosened which is intended to be rigid.</p> <p>All components, which are lubricated for a better gliding, shall be so designed, that the user is protected against soiling during intended use.</p>	<p>All accessible corners are rounded and chamfered</p> <p>mentioned edges are rounded or chamfered</p> <p>No handle</p> <p>No burrs</p> <p>Open hollow tubulars components are covered</p> <p>No moveable nor adjustable parts</p> <p>No loosened load bearing component</p> <p>Protected against soiling</p>	<p>P</p> <p>P</p> <p>n.a.</p> <p>P</p> <p>P</p> <p>P</p> <p>P</p> <p>P</p>
<p>Note: None</p>		

Table 1: Safety, strength and durability tests

Test	EN 1728	Loading ^a	Level 1	Verdict
Seat and back static load test	6.4	Seat Back	10 times with 1.600 N 10 times with 560 N	P P
Static load test	6.5	Seat front edge	10 times with 1.300 N	P
Vertical static load on back ^b	6.6	Seat load Back	1.300 N 10 times with 600 N	P
Static load test	6.8	Foot rest/leg rest	10 times with 1.300 N	n.a.
Sideways static load test	6.10	Arm rests	10 times with 400 N	P
Downwards static load test	6.11	Arm rests	5 times with 750 N	P
Vertical upwards static load	6.13	Seat load Arm rests	250 N 10 times	n.a.
Seat and back durability test	6.17	Seat Back ^c	100.000 cycles with 1.000 N 100.000 cycles with 300 N	P P
Durability test	6.18	Seat front edge	50.000 cycles with 800 N	P
Durability test	6.20	Arm rests	30.000 cycles with 400 N	p
Durability test	6.21	Foot rest / leg rest	50.000 cycles with 1.000 N	n.a.
Leg forward static load test	6.15	Seat load Legs	1.000 N 10 times with 500 N	p
Leg sideways static load test	6.16	Seat load Legs	1.000 N 10 times with 400 N	p
Seat impact test	6.24	Drop height	10 times of 240 mm	P
Back impact test	6.25	Height of fall Fall angle	10 times of 210 mm or 10 times of 38°	P
Arm impact test	6.26	Height of fall Fall angle	10 times of 210 mm or 10 times of 38°	p
Drop test (multiple seating)	6.27.1	Drop height	2 x 5 times of 450 mm ^d	n.a.
Static load test	6.14	Auxiliary writing surface	10 times with 300 N	n.a.
Durability test	6.22	Auxiliary writing surface	10.000 cycles with 150 N	n.a.

^a Seat load on parts not undergoing test: 750 N.

^b The test is only applicable for chairs without head/neck rest and for chairs with a height of the backrest < 1 000 mm above ground

^c No minimum force defined

^d only level 2

Test	EN 1728	Loading	Level 1	Verdict
Drop test for stacking seating	6.27.1	Drop height	10 times of 210 mm	n.a.
Backward fall test	6.28	cycles	5	n.a.
Drop test from the height of a table	6.27.3	Front leg: Rear leg:	5 times with 600 mm 5 times with 600 mm	n.a. n.a.

Table 2: Loads, Masses and Cycles of stability tests

Test description	Loads	Result	Cycles	Verdict
Overturning over the front corner	$M_1 = 30 \text{ kg}$	300 N	1	P
Overturning over the front edge	$F_1 = 600 \text{ N}$ $F_2 = 20 \text{ N}$	$F_2 > 25 \text{ N}$	1	P
Overturning over the front edge for seating with footrest	$F_1 = 600 \text{ N}$ $F_2 = 20 \text{ N}$	--	1	n.a.
Overturning over the side edge for seating without armrests	$F_1 = 600 \text{ N}$ $F_2 = 20 \text{ N}$	--	1	n.a.
Overturning over the side edge for seating with armrests	$F_1 = 250 \text{ N}$ $F_2 = 350 \text{ N}$ $F_3 = 20 \text{ N}$	$F_3 > 25 \text{ N}$	1	P
Overturning backwards for seating with backrest inclination	$F_1 = 600 \text{ N}$ $F_2 =$ If seating Height < 720 mm (0,2857 * (1 000 -Seating height in mm If seating height > 720 mm $F_2 = 158 \text{ N}$	$F_2 > 250 \text{ N}$	1	P
tilting backrest	13 load discs	13 load discs	1	P

Test method/Requirements	Test parameter/Results	Verdict
<p>User manual</p> <p>The user manual has to be provided in the language of the country, in which the seating is distributed to the end-user. It shall contain at least the following information:</p> <p>a) Intended use; b) Instructions for the use of adjustment features, if applicable c) Assembling instruction, if applicable; d) Maintenance instructions; e) If the chair is equipped with castors: Instructions on the choice of castors related to the floor covering; f) If the chair is equipped with an energized seat height adjustment feature an additional information is required, that only trained professionals may change or repair the energized seat height adjustment feature.</p>	<p>Requirements met</p> <p>Chairs available by specialist shop</p> <p>office use available</p> <p>no assembly required across homepage</p> <p>across homepage</p> <p>no height adjustment feature</p>	<p></p> <p>P</p> <p>P</p> <p>P</p> <p>P</p> <p>P</p> <p>n.a.</p>
<p>Note: None</p>		

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