

# Noor Product Factsheet

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REACTIV OFFICE DESIGN

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StokkeAustad  
Form Us With Love  
Susanne Grønlund Design  
Flokk design team

Noor is a collection of meeting, conference and canteen chairs with high ergonomic comfort. It exudes sophistication with its sleek, minimalist and contemporary aesthetic. The collection features a wide seat and backrest ensuring a pleasant seating experience. Offers fusion of elegance, comfort and modern design combined with endless possibilities for customization. It comes in 4 different types of base: 4 - leg, sledgebase, footbase, wooden legs and stool. Seat of it can be upholstered in fabrics or premium leather, providing a soft and indulgent feel.

Design by Form Us With Love, StokkeAustad, Susanne Grønlund Design and Flokk design team Noor Chair prioritizes comfort sustainability by utilizing responsibly sourced materials and comfort without compromising style adding vitality to working and sociable spaces.



## Noor collection

**Noor.** Brings life to space.

The Noor collection combines elegance, comfort, and modern design with a sleek silhouette and clean lines.

- Noor 4-legs makes lean and lightweight look easy. As a result, it's the most minimalistic in the Noor series. 4-legs Noor is an easy-to-stack chair that's perfectly apt for most dining areas, meeting rooms or study environments, along with your home.
- Noor Sledgebase has a slim yet sturdy stance. It refines classic design by adding a stylistic twist. Bringing distinctive character to lively environments such as schools, universities and canteens, this elegantly robust chair can take a bit of a bashing while remaining as rock solid as ever.
- Noor Footbase could well be the ideal choice for those who thrive in a fast-paced, creative working place and need more mobility. For energetic environments such as open offices or project rooms, this ergonomic chair is pure Scandinavian design on wheels.
- Noor Wooden legs portrays an air of sophistication, which makes it great for relaxed socialising in places such as gallery spaces, high-end dining areas, homes, etc. By fusing modern design with traditional craftsmanship, like fine art, this beautifully framed chair only gets better with age.
- Noor Up stands tall and proud. It's perfect for coffee shops, breakfast bars, or any other bustling social places where the atmosphere is dynamic. This is Scandinavian design with lofty ambitions - encouraging you to happily chat over a drink, or a bite to eat, while keeping you in high spirits.

Features:

- Wide range of colors
- Stackable
- The model is stackable and armrests are optional.
- GREENGUARD Gold certified
- Environmental Product Declaration (EPD)
- Red Dot Design award 2013
- Norwegian Design Council - Award for Design Excellence

## Quality

Profim provides a 5-year warranty for products used 8 hours a day, 5 days a week (single shift operation).

## Certificates



## Technical data

Shell:

- Backrest made of polypropylene (PP) or plywood with 3D veneer.
- It comes in a non upholstered version, with upholstered seat pad, with upholstered seat and backrest pads and fully upholstered

Frame:

- Metal tube with diameter:
  - Ø16 mm - Noor 4-legs
  - Ø12 mm - Noor Sledgebase and Noor Up.

Glides:

- Felt glides - for hard floors
- Plastic glides - for soft floors

Stacking:

- Noor Up - up to 5 pcs
- Noor Sledgebase - up to chairs for the version without armrests and up to 5 for the version with armrests.
- Noor 4-legs - up to 10 chairs for the version without armrests and up to 5 for the version with armrests.

## Frame types



4-legs

605\_



Sledgebase

606\_



Wooden legs

608\_



Footbase

607\_



Up

609\_

## Shell



\_\_\_ 0

Without upholstery



\_\_\_ 0S

Upholstered seat pad



\_\_\_ 0SB

Upholstered seat and backrest pads



\_\_\_ 0F

Fully upholstered



\_\_\_ 5

3D veneer without upholstery



\_\_\_ 5S

3D veneer Upholstered seat pad



\_\_\_ 5SB

3D veneer Upholstered seat and backrest pads

## Shell colours - plastic



Vanilla



Misty Grey



Clay



Graphite



Teal Blue



Sky\*



Forest



Sea Green



Poppy\*



Rose\*



Coral\*

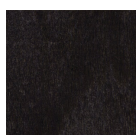


Straw\*

## Shell colours - plywood



Oak



Dark stained Oak\*

## Frame colour - Noor 4-legs



Snow (White)  
RAL 9016\*



Misty Grey\*



Black  
RAL9005



Teal Blue



Forest\*



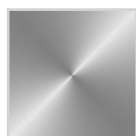
Sea Green



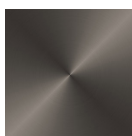
Lingon  
RAL 3000\*



Rose\*



Metalsilver



Steelgrey

## Frame colour - Noor Sledgebase / Noor Up



Snow (White)  
RAL 9016



Misty Grey\*



Black  
RAL9005



Teal Blue



Aqua\*



Forest\*



Sea Green



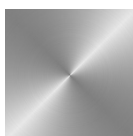
Lingon  
RAL 3000\*



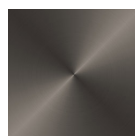
Rose\*



Canola\*



Metalsilver



Steelgrey

## Base colour - Noor Footbase



Snow (White)  
RAL 9016\*



Black  
RAL9005



Polished  
Aluminium\*

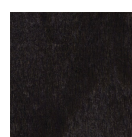
## Legs colour - Noor on wooden legs



White stained  
Ash\*



Stained Ash



Dark stained  
Ash\*

## Color of aluminum element - Noor on wooden legs

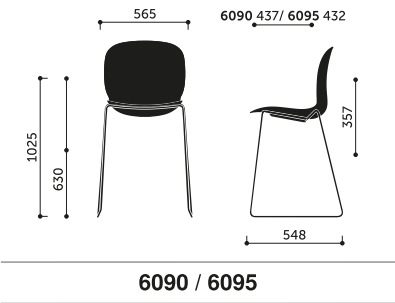
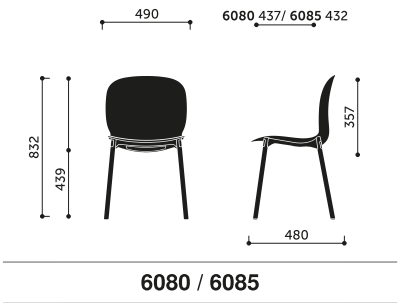
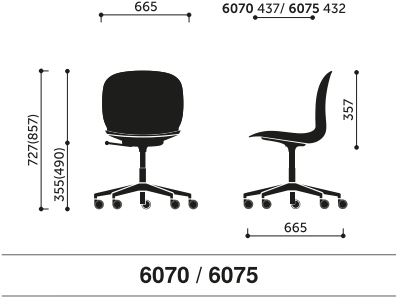
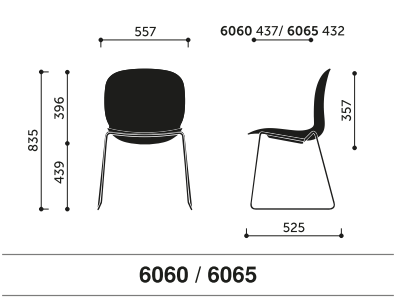
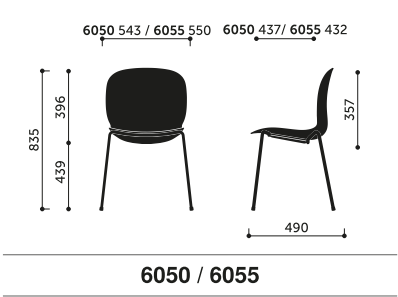


Black painted  
Aluminium



Polished  
Aluminium\*

Dimensions



# CERTIFICATE OF COMPLIANCE



## RBM

### RBM Noor Collection

29831-420

Certificate Number

19 Aug 2020 - 18 Aug 2025

Certificate Period

Certified

Status

UL 2818 - 2022 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings

Commercial furniture and furnishings are tested in accordance with ANSI/BIFMA M7.1-2011(R2016) and determined to comply with ANSI/BIFMA X7.1-2011(R2016) and ANSI/BIFMA e3-2019 Credit 7.6.1, 7.6.2, and 7.6.3. Seating products are modeled in the seating environment with a ventilation rate of 24.8 m<sup>3</sup>/hour. Products also determined compliant in accordance with California Department of Public Health (CDPH) Standard Method V1.2-2017.

Product tested in accordance with UL 2821 test method to show compliance to emission limits on UL 2818. Section 7.1 and 7.2.



UL investigated representative samples of the identified Product(s) to the identified Standard(s) or other requirements in accordance with the agreements and any applicable program service terms in place between UL and the Certificate Holder (collectively "Agreement"). The Certificate Holder is authorized to use the UL Mark for the identified Product(s) manufactured at the production site(s) covered by the UL Test Report, in accordance with the terms of the Agreement. This Certificate is valid for the identified dates unless there is non-compliance with the Agreement.

## GREENGUARD Gold Certification Criteria for Office Furniture Seating

| Criteria                                | CAS Number | Maximum Allowable Predicted Concentration | Units             |
|-----------------------------------------|------------|-------------------------------------------|-------------------|
| TVOC <sup>(A)</sup>                     | -          | 0.22                                      | mg/m <sup>3</sup> |
| Formaldehyde                            | 50-00-0    | 4.5 (3.65 ppb)                            | µg/m <sup>3</sup> |
| Total Aldehydes <sup>(B)</sup>          | -          | 0.043                                     | ppm               |
| 4-Phenylcyclohexene                     | 4994-16-5  | 6.5                                       | µg/m <sup>3</sup> |
| 1-Methyl-2-pyrrolidinone <sup>(C)</sup> | 872-50-4   | 80                                        | µg/m <sup>3</sup> |
| Individual VOCs <sup>(D)</sup>          | -          | 1/4 CREL<br>or<br>1/100th TLV             | -                 |

- (A) Defined to be the total response of measured VOCs falling within the C<sub>6</sub> – C<sub>16</sub> range, with responses calibrated to a toluene surrogate.
- (B) The sum of all measured normal aldehydes from formaldehyde through nonanal, plus benzaldehyde, individually calibrated to a compound specific standard. Heptanal through nonanal are measured via TD/GC/MS analysis and the remaining aldehydes are measured using HPLC/UV analysis.
- (C) Based on the CA Prop 65 Maximum Allowable Dose Level for inhalation of 3,200 µg/day and an inhalation rate of 20 m<sup>3</sup>/day.
- (D) Allowable levels for chemicals not listed are derived from the lower of 1/4 the California Office of Environmental Health Hazard Assessment (OEHHA) Chronic Reference Exposure Level (CREL) as required per the CDPH/EHLB/Standard Method v1.2 and BIFMA level credit 7.6.2 and 1/100th of the Threshold Limit Value (TLV) industrial work place standard (Reference: American Conference of Government Industrial Hygienists, 6500 Glenway, Building D-7, and Cincinnati, OH 45211-4438).



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Total Quality. Assured.

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P.O. Box 5055 Majorstuen  
7374 Røros  
Norway

Fürth, September 23/2021

## TEST REPORT No. FUHLFP2021-05503

Date sample received: July 22/2021

Period of testing: July 22/2021 – September 15/2021

Technical Director: Kerstin Scharrer

**Test Item:** Office stool / visitor chair RBM NOOR  
models:

| <u>4-LEG</u> | <u>sledge base</u> | <u>Noor up</u> |
|--------------|--------------------|----------------|
| 6050         | 6060               | 6090           |
| 6055         | 6065               | 6095           |
| 6080         |                    |                |
| 6085         |                    |                |

**Test:** General safety tests to EN 16319 and DIN 68878 to achieve the GS Mark

### Determination:

Essential components of the tests were the safety, functionality, fitness-for-use and ergonomic properties. Basis of the tests were the following references: EN 16139:2013 + AC:2013 (Level 1) and DIN 68878:2011 considering the current state of the art of technique.

The reference models "6060, 6065, 6080, 6090, 6095" were tested standing in for the complete office stool model range.

In summary, the test requirements **were fulfilled**.

### Notes:

The accessibility and selection of used materials does not propose a risk in accordance with PAH requirements for GS (see document AfPS GS 2019:01 PAH), and PAH Evaluation Sheet FUHLFP2021-05503-PAH.

Reviewed by:  
Intertek Consumer Goods GmbH

Lab Manager Hardlines  
Frank Urbich

Tested by:  
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Technical Expert  
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26.11.21

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Managing Director  
Reinhold Gehling





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#### Product identification:

|                         |                                             |                    |                |
|-------------------------|---------------------------------------------|--------------------|----------------|
| Test sample:            | Office work chair                           |                    |                |
| Model n.a.me:           | RBM Noor                                    |                    |                |
| Item number:            | <u>4-LEG</u>                                | <u>sledge base</u> | <u>Noor up</u> |
|                         | 6050                                        | 6060               | 6090           |
|                         | 6055                                        | 6065               | 6095           |
|                         | 6080                                        |                    |                |
|                         | 6085                                        |                    |                |
| Manufacturer:           | Flokk AS, Sundveien 201, 7374 Roros, Norway |                    |                |
| Number of test samples: | 1 sample of 6060,6065,6080,6090,6095"       |                    |                |
| Distributor:            | Flokk                                       |                    |                |
| Delivered on:           | 22.07.2021                                  |                    |                |
| Delivered by:           | Flokk                                       |                    |                |

#### Product documents:

User Guide, Product specification sheet and Product marking

#### Scope of the investigations:

EN 16139:2013 + AC:2013, Office furniture - Office work chair –  
DIN 68878:2011

Test Methods:

EN 1728:2012,

DIN EN 1022:2019-04

EN 1335-3:2009,

#### Abbreviations:

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

#### Applicability of measurements:

The test results refer only to the objects to be tested. The digital images in this report are intended as supplementary information and are not an integral part of this test 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 tests                            | Ruler                  | PM_HL_18.321  |
| General tests                            | Band ruler 3000 mm     | PM_HL_18.367  |
| General tests                            | Calliper               | PM_HL_17.044  |
| Strength and durability tests            | Load cell 5 kN         | PM_HL_18.358  |
| Strength and durability tests            | Load cell 5kN          | PM_HL_18.359  |
| Strength and durability tests            | Load cell 5kN          | PM_HL_18.360  |
| Strength and durability tests            | Load cell 5 kN         | PM_HL_18.361  |
| Strength and durability tests            | Load cell 2 kN         | PM_HL_18.362  |
| Strength and durability tests            | Load cell 5,5 kN       | PM_HL_18.363  |
| Strength and durability tests            | Seat dummy             | PM_HL_18.199  |
| Stability                                | Pull-Push-Gauge        | PM_HL_17.026  |
| Stability                                | Stability Table        | PM_HL_18.107  |
| Stability                                | Load disc 10 Kg        | PM_HL_18.231  |
| Stability                                | Load disc 10 Kg        | PM_HL_18.232  |
| Stability                                | Load disc 10 Kg        | PM_HL_18.233  |
| Stability                                | Load disc 10 Kg        | PM_HL_18.234  |
| Stability                                | Load disc 10 Kg        | PM_HL_18.235  |
| Loading point template - A-B             | Measurement template   | PM_HL_18.109  |
| Strength and durability tests            | Durability test stand  | PM_HL_18.153  |
| Strength and durability tests for castor | Linear axis test stand | PM_HL_18.066  |

## General Testing

### Technical characteristics

#### General dimensions 4-LEG

|                  |      |
|------------------|------|
| Model            | 6080 |
| Depth (mm):      | 476  |
| Height (mm):     | 830  |
| Width (mm):      | 470  |
| Net weight (kg): | 5,5  |

#### Product Description:

Chair with 4 legs, with backrest,

#### Material:

Backrest and Seating area (3D veneer shells) made of PP, t = 6 mm -8 mm

Frame made of aluminium black painted or polished,

Legs made of wood Ø 30 mm

#### Connections:

Frame connected to the 3D veneer shell with 4 Screws Ø6 mm x 14 mm



**Photo documentation – mod. 6080**





Total Quality. Assured.

#### General dimensions sledge base

| Model            | 6060 | 6065 |
|------------------|------|------|
| Depth (mm):      | 495  | 495  |
| Height (mm):     | 830  | 829  |
| Width (mm):      | 535  | 543  |
| Net weight (kg): | 6,6  | 6,4  |

#### Product Description:

Chair with sledge base, with backrest,  
Armrests available as option

#### Material:

Backrest and Seating area (3D veneer shells) made of PP, t = 6 mm -8 mm  
Legs made of steel; Ø 12 mm

#### Connections:

Frame connected to the 3D veneer shell with 4 Screws Ø6 mm x 14 mm



## Photo documentation – mod. 6060/6065

|                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|    |    |
| <p>Pic.5: Front View - 6060</p>                                                     | <p>Pic.6: Side View – Right 6060</p>                                                 |
|   |   |
| <p>Pic.7: Bottom View- 6060</p>                                                     | <p>Pic.8: Labelling</p>                                                              |
|  |  |
| <p>Pic.9: Front View – 6065</p>                                                     | <p>Pic.10: Side View – Right - 6065</p>                                              |
|  |  |
| <p>Pic.11: Bottom View- 6065</p>                                                    | <p>Pic.12: Labelling</p>                                                             |



Total Quality. Assured.

#### General dimensions Noor up

| Model            | 6090 | 6095 |
|------------------|------|------|
| Depth (mm):      | 536  | 530  |
| Height (mm):     | 1030 | 1027 |
| Width (mm):      | 556  | 555  |
| Net weight (kg): | 7,7  | 7,4  |

#### Product Description:

Chair with sledge base, with backrest,

#### Material:

Backrest and Seating area (3D veneer shells) made of PP, t = 6 mm -8 mm

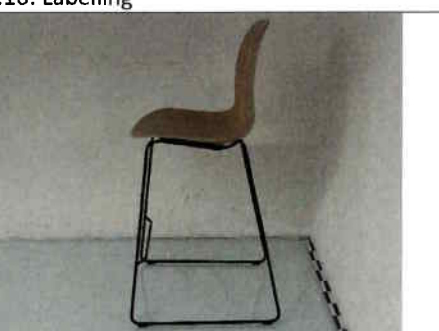
Legs made of steel; Ø 12 mm

#### Connections:

Frame connected to the 3D veneer shell with 4 Screws Ø6 mm x 14 mm



## Photo documentation – mod. 6090/6095

|                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|    |    |
| <p>Pic.13: Front View - 6090</p>                                                    | <p>Pic.14: Side View – Right 6090</p>                                                |
|   |   |
| <p>Pic.15: Bottom View- 6090</p>                                                    | <p>Pic.16: Labelling</p>                                                             |
|  |  |
| <p>Pic.17: Front View – 6095</p>                                                    | <p>Pic.18: Side View – Right - 6095</p>                                              |
|  |  |
| <p>Pic.19: Bottom View- 6095</p>                                                    | <p>Pic.20: Labelling</p>                                                             |

| Test method/Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Test parameter/Results                                                                                                                                                                                                                                                                                                                                                                                      | Verdict                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <p><b>Strength, durability and safety according to EN 16139:2013 + AC:2013, Level 1</b></p> <p><b>Safety</b></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> <p>a) all accessible corners are rounded or chamfered;</p> <p>b) the edges of the seat, back and armrest which the user is in contact with during sitting, are rounded or chamfered;</p> <p>c) the edges of the handles in direction of the application are rounded or chamfered;</p> <p>d) all other edges are free of burrs, rounded or chamfered</p> <p>e) ends of hollow tubulars are covered or capped</p> <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><b>Stability</b></p> <p>The seating shall not overturn under the following conditions:</p> <p>a) by pressing down on the front edge of the seat surface in the median plane;</p> <p>b) by applying a load on the seat surface via the front corner;</p> <p>c) by leaning sideways on an item of seating with or without arm rests;</p> <p>d) by leaning against the back rest;</p> <p>e) by sitting on the front edge of the seat;</p> <p>f) by loading the foot rest.</p> <p>The requirement is considered to be met if the seating complies with EN 1022:2018.</p> | <p><b>Requirements fulfilled</b></p> <p>All accessible corners are rounded and chamfered</p> <p>No handles</p> <p>No burrs</p> <p>No open hollow tubulars components</p> <p>No loosened load bearing components</p> <p>Protected against soiling</p> <p><b>Requirements fulfilled</b></p> <p>No overturn</p> <p>No overturn</p> <p>No overturn</p> <p>No overturn</p> <p>No overturn</p> <p>No overturn</p> | <p>P</p> <p>n.a.</p> <p>P</p> <p>n.a.</p> <p>P</p> <p>P</p> <p>P</p> <p>P</p> <p>P</p> <p>P</p> <p>P</p> |

| Test method/Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Test parameter/Results                                                                                                                                                                                                                            | Verdict                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| <p><b>Safety of the construction</b></p> <p>The following tests described in Table 1 are considered to be relevant to safety:<br/>Test No.: 1, 2, 4, 6, 7, 8, 9, 10, 12, 13, 14.<br/>Seating is considered to satisfy the safety requirements if, on completion of the relevant tests, the chair satisfies all requirements.</p> <p><b>Safety, strength and durability requirements</b></p> <p>The chair shall be constructed to ensure that it does not create a risk of injury to the user of the chair under the following conditions:</p> <ul style="list-style-type: none"> <li>- sitting on the seat, both centrally and off-centre;</li> <li>- moving forward, backwards, and sideways while sitting in the chair;</li> <li>- leaning over the arm rests;</li> <li>- pressing down on the arm rests while getting up from the chair.</li> </ul> <p>These safety, strength and durability requirements are fulfilled when during and after testing in accordance with Table:</p> <p>a) there are no fractures of any member, joint or component;</p> <p>b) there are no loosening of joints intended to be rigid;</p> <p>c) no major structural element is significantly deformed;</p> <p>d) the chair fulfils its functions after removal of the test loads.</p> <p>The stability requirements are fulfilled when after testing in accordance with Table 1 the seating does not overturn.</p> | <p><b>Requirements fulfilled</b></p> <p>See table 1</p> <p><b>Requirements fulfilled</b></p> <p>See table 1</p> <p>no fracture</p> <p>no loosening</p> <p>no significant deformation</p> <p>full functioning</p> <p>no overturn after testing</p> | <p></p> <p></p> <p>P</p> <p>P</p> <p>P</p> <p>P</p> <p>P</p> |

**Table 1: Safety, strength and durability tests**  
**6060,6065,6080,**

| Test and sequence                                                                                                                                                                                                                                  | Reference                    | Loading <sup>a</sup>                            | Level                                            | Result |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------|--------------------------------------------------|--------|
|                                                                                                                                                                                                                                                    |                              |                                                 | L1                                               | Level1 |
| 1.Seat and back static load test                                                                                                                                                                                                                   | EN 1728:2012, 6.4            | Seat: Force, N<br>Back: Force, N; 10 times      | 1600<br>560(min force 410)                       | P      |
| 2.Seat front edge static load test                                                                                                                                                                                                                 | EN 1728:2012, 6.5            | Force, N<br>10 times                            | 1300                                             | P      |
| 3.Vertical static load on back <sup>b</sup>                                                                                                                                                                                                        | EN 1728:2012, 6.6            | Force, N<br>Seat load, N, 10 times              | 600<br>1300                                      | n.a.   |
| 4.Foot rest and leg rest static load test                                                                                                                                                                                                          | EN 1728:2012, 6.8, 6.9       | Force, N<br>10 times                            | 1300                                             | n.a.   |
| 5.Arm sideways static load test                                                                                                                                                                                                                    | EN 1728:2012, 6.10           | Force, N<br>10 times                            | 400                                              | n.a.   |
| 6.Arm downwards static load test                                                                                                                                                                                                                   | EN 1728:2012, 6.11           | Force, N<br>5 times                             | 750                                              | n.a.   |
| 7.Vertical upwards static load on arm rests                                                                                                                                                                                                        | EN 1728:2012, 6.13.1, 6.13.2 | Seat load, N<br>Lift 10 times, during ≥10 s     | 250 or lift stack with max. 8 chairs of max 25kg | n.a.   |
| 8.Seat and back durability test                                                                                                                                                                                                                    | EN 1728:2012, 6.17           | Cycles<br>Seat: 1000N; Back <sup>c</sup> : 300N | 100 000                                          | P      |
| 9.Seat front edge durability test                                                                                                                                                                                                                  | EN 1728:2012, 6.18           | Cycles<br>Force: 800N                           | 50 000                                           | P      |
| 10. Arm durability test                                                                                                                                                                                                                            | EN 1728:2012, 6.20           | Cycles<br>Force: 400N                           | 30 000                                           | n.a.   |
| 11. Foot rest durability test                                                                                                                                                                                                                      | EN 1728:2012, 6.21           | Cycles<br>Force: 1000N                          | 50 000                                           | n.a.   |
| 12. Leg forward static load test                                                                                                                                                                                                                   | EN 1728:2012, 6.15           | Force, N<br>Seat load, N; 10 times              | 500<br>1000                                      | P      |
| 13. Leg sideways static load test                                                                                                                                                                                                                  | EN 1728:2012, 6.16           | Force, N<br>Seat load, N; 10 times              | 400<br>1000                                      | P      |
| 14.Seat impact test                                                                                                                                                                                                                                | EN 1728:2012, 6.24           | Drop height, mm<br>10 times                     | 240                                              | P      |
| 15.Back impact test                                                                                                                                                                                                                                | EN 1728:2012, 6.25           | Height of fall, mm/ <sup>a</sup><br>10 times    | 210/38                                           | P      |
| 16. Arm impact test                                                                                                                                                                                                                                | EN 1728:2012, 6.26           | Height of fall, mm/ <sup>a</sup><br>10 times    | 210/38                                           | n.a.   |
| 17. Drop test (multiple seating)                                                                                                                                                                                                                   | EN 1728:2012, 6.27.1         | Drop height, mm<br>2x5 times                    | N/A                                              | n.a.   |
| 18.Auxiliary writing surface static load test                                                                                                                                                                                                      | EN 1728:2012, 6.14           | Force, N<br>10 times                            | 300                                              | n.a.   |
| 19. Auxiliary writing surface durability test                                                                                                                                                                                                      | EN 1728:2012, 6.22           | Cycles<br>Force: 150N                           | 10 000                                           | n.a.   |
| <sup>a</sup> Seat load on parts not undergoing test: 750N<br><sup>b</sup> The test is only applicable for chairs without head/neck rest and for chairs with a height of the backrest <1000mm above ground<br><sup>c</sup> No minimum force defined |                              |                                                 |                                                  |        |

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

**Table 1: Safety, strength and durability tests**  
**,6090,6095**

| Test and sequence                                                                                                                                                                                                                                  | Reference                    | Loading <sup>a</sup>                            | Level                                            | Result |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------|--------------------------------------------------|--------|
|                                                                                                                                                                                                                                                    |                              |                                                 | L1                                               | Level1 |
| 1.Seat and back static load test                                                                                                                                                                                                                   | EN 1728:2012, 6.4            | Seat: Force, N<br>Back: Force, N; 10 times      | 1600<br>560(min force 410)                       | P      |
| 2.Seat front edge static load test                                                                                                                                                                                                                 | EN 1728:2012, 6.5            | Force, N<br>10 times                            | 1300                                             | P      |
| 3.Vertical static load on back <sup>b</sup>                                                                                                                                                                                                        | EN 1728:2012, 6.6            | Force, N<br>Seat load, N, 10 times              | 600<br>1300                                      | n.a.   |
| 4.Foot rest and leg rest static load test                                                                                                                                                                                                          | EN 1728:2012, 6.8, 6.9       | Force, N<br>10 times                            | 1300                                             | P      |
| 5.Arm sideways static load test                                                                                                                                                                                                                    | EN 1728:2012, 6.10           | Force, N<br>10 times                            | 400                                              | n.a.   |
| 6.Arm downwards static load test                                                                                                                                                                                                                   | EN 1728:2012, 6.11           | Force, N<br>5 times                             | 750                                              | n.a.   |
| 7.Vertical upwards static load on arm rests                                                                                                                                                                                                        | EN 1728:2012, 6.13.1, 6.13.2 | Seat load, N<br>Lift 10 times, during ≥10 s     | 250 or lift stack with max. 8 chairs of max 25kg | n.a.   |
| 8.Seat and back durability test                                                                                                                                                                                                                    | EN 1728:2012, 6.17           | Cycles<br>Seat: 1000N; Back <sup>c</sup> : 300N | 100 000                                          | P      |
| 9.Seat front edge durability test                                                                                                                                                                                                                  | EN 1728:2012, 6.18           | Cycles<br>Force: 800N                           | 50 000                                           | P      |
| 10. Arm durability test                                                                                                                                                                                                                            | EN 1728:2012, 6.20           | Cycles<br>Force: 400N                           | 30 000                                           | n.a.   |
| 11. Foot rest durability test                                                                                                                                                                                                                      | EN 1728:2012, 6.21           | Cycles<br>Force: 1000N                          | 50 000                                           | P      |
| 12. Leg forward static load test                                                                                                                                                                                                                   | EN 1728:2012, 6.15           | Force, N<br>Seat load, N; 10 times              | 500<br>1000                                      | P      |
| 13. Leg sideways static load test                                                                                                                                                                                                                  | EN 1728:2012, 6.16           | Force, N<br>Seat load, N; 10 times              | 400<br>1000                                      | P      |
| 14.Seat impact test                                                                                                                                                                                                                                | EN 1728:2012, 6.24           | Drop height, mm<br>10 times                     | 240                                              | P      |
| 15.Back impact test                                                                                                                                                                                                                                | EN 1728:2012, 6.25           | Height of fall, mm/°<br>10 times                | 210/38                                           | P      |
| 16. Arm impact test                                                                                                                                                                                                                                | EN 1728:2012, 6.26           | Height of fall, mm/°<br>10 times                | 210/38                                           | n.a.   |
| 17. Drop test (multiple seating)                                                                                                                                                                                                                   | EN 1728:2012, 6.27.1         | Drop height, mm<br>2x5 times                    | N/A                                              | n.a.   |
| 18.Auxiliary writing surface static load test                                                                                                                                                                                                      | EN 1728:2012, 6.14           | Force, N<br>10 times                            | 300                                              | n.a.   |
| 19. Auxiliary writing surface durability test                                                                                                                                                                                                      | EN 1728:2012, 6.22           | Cycles<br>Force: 150N                           | 10 000                                           | n.a.   |
| <sup>a</sup> Seat load on parts not undergoing test: 750N<br><sup>b</sup> The test is only applicable for chairs without head/neck rest and for chairs with a height of the backrest <1000mm above ground<br><sup>c</sup> No minimum force defined |                              |                                                 |                                                  |        |

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

**Table 2: Measurement table according to ANNEX C  
Model 6060,**

| Measurement range                         | Symbol | allowed<br>(-) | Min. | Max. | allowed<br>(+) | Min.<br>range | Measured value | Verdict |
|-------------------------------------------|--------|----------------|------|------|----------------|---------------|----------------|---------|
| Seat height and sitting height fixed      | a      | no             | 400  | 500  | no             | /             | 458 mm         | P       |
| Seat height and sitting height adjustable |        | yes            | 420  | 480  | yes            | /             | /              | n.a.    |
| depth of the seat                         | b      | yes            | 380  | 470  | yes            | /             | 437 mm         | P       |
| Seat pad width                            | d      | no             | 400  | -    | yes            | /             | 438 mm         | P       |
| Distance between arm rests                | r      | no             | 460  | -    | yes            | /             | /              | n.a.    |

**Model 6065,**

| Measurement range                         | Symbol | allowed<br>(-) | Min. | Max. | allowed<br>(+) | Min.<br>range | Measured value | Verdict |
|-------------------------------------------|--------|----------------|------|------|----------------|---------------|----------------|---------|
| Seat height and sitting height fixed      | a      | no             | 400  | 500  | no             | /             | 459 mm         | P       |
| Seat height and sitting height adjustable |        | yes            | 420  | 480  | yes            | /             | /              | n.a.    |
| depth of the seat                         | b      | yes            | 380  | 470  | yes            | /             | 437 mm         | P       |
| Seat pad width                            | d      | no             | 400  | -    | yes            | /             | 438 mm         | P       |
| Distance between arm rests                | r      | no             | 460  | -    | yes            | /             | /              | n.a.    |

**Model 6080,**

| Measurement range                         | Symbol | allowed<br>(-) | Min. | Max. | allowed<br>(+) | Min.<br>range | Measured value | Verdict |
|-------------------------------------------|--------|----------------|------|------|----------------|---------------|----------------|---------|
| Seat height and sitting height fixed      | a      | no             | 400  | 500  | no             | /             | 460 mm         | P       |
| Seat height and sitting height adjustable |        | yes            | 420  | 480  | yes            | /             | /              | n.a.    |
| depth of the seat                         | b      | yes            | 380  | 470  | yes            | /             | 438 mm         | P       |
| Seat pad width                            | d      | no             | 400  | -    | yes            | /             | 440 mm         | P       |
| Distance between arm rests                | r      | no             | 460  | -    | yes            | /             | /              | n.a.    |

### Model 6090,

| Measurement range                         | Symbol |             |      |      |             |            | Measured value | Verdict |
|-------------------------------------------|--------|-------------|------|------|-------------|------------|----------------|---------|
|                                           |        | allowed (-) | Min. | Max. | allowed (+) | Min. range |                |         |
| Seat height and sitting height fixed      | a      | no          | 400  | 500  | no          | /          | 649 mm         | P*      |
| Seat height and sitting height adjustable |        | yes         | 420  | 480  | yes         | /          | /              | n.a.    |
| depth of the seat                         | b      | yes         | 380  | 470  | yes         | /          | 436 mm         | P       |
| Seat pad width                            | d      | no          | 400  | -    | yes         | /          | 437 mm         | P       |
| Distance between arm rests                | r      | no          | 460  | -    | yes         | /          | /              | n.a.    |

Remark\*: The chair shall only be used to sit on a table with 900 mm height.

### Model 6095,

| Measurement range                         | Symbol |             |      |      |             |            | Measured value | Verdict |
|-------------------------------------------|--------|-------------|------|------|-------------|------------|----------------|---------|
|                                           |        | allowed (-) | Min. | Max. | allowed (+) | Min. range |                |         |
| Seat height and sitting height fixed      | a      | no          | 400  | 500  | no          | /          | 649 mm         | P**     |
| Seat height and sitting height adjustable |        | yes         | 420  | 480  | yes         | /          | /              | n.a.    |
| depth of the seat                         | b      | yes         | 380  | 470  | yes         | /          | 434 mm         | P       |
| Seat pad width                            | d      | no          | 400  | -    | yes         | /          | 439 mm         | P       |
| Distance between arm rests                | r      | no          | 460  | -    | yes         | /          | /              | n.a.    |

Remark\*\*: The chair shall only be used to sit on a table with 900 mm height.

**Table 3: Loads, Masses and Cycles of stability tests**

**Model 6060,**

| 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                             | $F_1 = 600 \text{ N}$<br>$F_2 = 20 \text{ N}$                                                                                                                                                       | $F_2 = 43 \text{ N}$  | 1      | P       |
| Overturning over the front edge for seating with footrest   | $F_1 = 600 \text{ N}$<br>$F_2 = 20 \text{ N}$                                                                                                                                                       | --                    | 1      | n.a.    |
| Overturning over the side edge for seating without armrests | $F_1 = 600 \text{ N}$<br>$F_2 = 20 \text{ N}$                                                                                                                                                       | $F_2 = 106 \text{ N}$ | 1      | P       |
| Overturning over the side edge for seating with armrests    | $F_1 = 250 \text{ N}$<br>$F_2 = 350 \text{ N}$<br>$F_3 = 20 \text{ N}$                                                                                                                              | --                    | 1      | P       |
| Overturning backwards for seating with backrest inclination | $F_1 = 600 \text{ N}$<br>$F_2 =$<br><br>If seating<br>Height <<br>720 mm<br>(0,2857 *<br>(1 000<br>-Seating<br>height in mm<br><br><br>If seating<br>height ><br>720 mm<br><br>$F_2 = 80 \text{ N}$ | $F_2 = 178 \text{ N}$ | 1      | P       |
| tilting backrest                                            | 13 load discs                                                                                                                                                                                       | 13 load discs         | 1      | P       |

**Model 6065**

| 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                             | $F_1 = 600 \text{ N}$<br>$F_2 = 20 \text{ N}$                                                                                                                                | $F_2 = 41 \text{ N}$  | 1      | P       |
| Overturning over the front edge for seating with footrest   | $F_1 = 600 \text{ N}$<br>$F_2 = 20 \text{ N}$                                                                                                                                | --                    | 1      | n.a.    |
| Overturning over the side edge for seating without armrests | $F_1 = 600 \text{ N}$<br>$F_2 = 20 \text{ N}$                                                                                                                                | $F_2 = 112 \text{ N}$ | 1      | P       |
| Overturning over the side edge for seating with armrests    | $F_1 = 250 \text{ N}$<br>$F_2 = 350 \text{ N}$<br>$F_3 = 20 \text{ N}$                                                                                                       | --                    | 1      | n.a.    |
| Overturning backwards for seating with backrest inclination | $F_1 = 600 \text{ N}$<br>$F_2 =$<br><br>If seating Height < 720 mm<br>(0,2857 * (1 000 - Seating height in mm)<br><br>If seating height > 720 mm<br><br>$F_2 = 80 \text{ N}$ | $F_2 = 192 \text{ N}$ | 1      | P       |
| tilting backrest                                            | 13 load discs                                                                                                                                                                | 13 load discs         | 1      | n.a.    |

**Model 6080,**

| Test description                                            | Loads                                                                                                                                                                                                      | Result                        | Cycles | Verdict |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------|---------|
| Overturning over the front corner                           | M <sub>1</sub> = 30 kg                                                                                                                                                                                     | 300 N                         | 1      | P       |
| Overturning over the front edge                             | F <sub>1</sub> = 600 N<br>F <sub>2</sub> = 20 N                                                                                                                                                            | F <sub>2</sub> = 77 N         | 1      | P       |
| Overturning over the front edge for seating with footrest   | F <sub>1</sub> = 600 N<br>F <sub>2</sub> = 20 N                                                                                                                                                            | --                            | 1      | n.a.    |
| Overturning over the side edge for seating without armrests | F <sub>1</sub> = 600 N<br>F <sub>2</sub> = 20 N                                                                                                                                                            | F <sub>2</sub> = 137 N        | 1      | P       |
| Overturning over the side edge for seating with armrests    | F <sub>1</sub> = 250 N<br>F <sub>2</sub> = 350 N<br>F <sub>3</sub> = 20 N                                                                                                                                  | --                            | 1      | n.a.    |
| Overturning backwards for seating with backrest inclination | F <sub>1</sub> = 600 N<br>F <sub>2</sub> =<br><br>If seating<br>Height <<br>720 mm<br>(0,2857 *<br>(1 000<br>-Seating<br>height in mm<br><br>If seating<br>height > 720<br>mm<br><br>F <sub>2</sub> = 80 N | F <sub>2</sub> =<br><br>193 N | 1      | P       |
| tilting backrest                                            | 13 load discs                                                                                                                                                                                              | 13 load discs                 | 1      | n.a.    |

### Model 6090

| 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                             | $F_1 = 600 \text{ N}$<br>$F_2 = 20 \text{ N}$                                                                                                                                | $F_2 = 41 \text{ N}$  | 1      | P       |
| Overturning over the front edge for seating with footrest   | $F_1 = 600 \text{ N}$<br>$F_2 = 20 \text{ N}$                                                                                                                                | $F_2 = 116 \text{ N}$ | 1      | n.a.    |
| Overturning over the side edge for seating without armrests | $F_1 = 600 \text{ N}$<br>$F_2 = 20 \text{ N}$                                                                                                                                | $F_2 = 103 \text{ N}$ | 1      | P       |
| Overturning over the side edge for seating with armrests    | $F_1 = 250 \text{ N}$<br>$F_2 = 350 \text{ N}$<br>$F_3 = 20 \text{ N}$                                                                                                       | --                    | 1      | n.a.    |
| Overturning backwards for seating with backrest inclination | $F_1 = 600 \text{ N}$<br>$F_2 =$<br><br>If seating Height < 720 mm<br>(0,2857 * (1 000 - Seating height in mm)<br><br>If seating height > 720 mm<br><br>$F_2 = 80 \text{ N}$ | $F_2 = 171 \text{ N}$ | 1      | P       |
| tilting backrest                                            | 13 load discs                                                                                                                                                                | 13 load discs         | 1      | n.a.    |

## Model 6095

| Test description                                            | Loads                                                                                                                                                                                   | Result                 | Cycles | Verdict |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------|---------|
| Overturning over the front corner                           | M <sub>1</sub> = 30 kg                                                                                                                                                                  | 300 N                  | 1      | P       |
| Overturning over the front edge                             | F <sub>1</sub> = 600 N<br>F <sub>2</sub> = 20 N                                                                                                                                         | F <sub>2</sub> = 41 N  | 1      | P       |
| Overturning over the front edge for seating with footrest   | F <sub>1</sub> = 600 N<br>F <sub>2</sub> = 20 N                                                                                                                                         | F <sub>2</sub> = 119 N | 1      | n.a.    |
| Overturning over the side edge for seating without armrests | F <sub>1</sub> = 600 N<br>F <sub>2</sub> = 20 N                                                                                                                                         | F <sub>2</sub> = 98 N  | 1      | P       |
| Overturning over the side edge for seating with armrests    | F <sub>1</sub> = 250 N<br>F <sub>2</sub> = 350 N<br>F <sub>3</sub> = 20 N                                                                                                               | --                     | 1      | n.a.    |
| Overturning backwards for seating with backrest inclination | F <sub>1</sub> = 600 N<br>F <sub>2</sub> =<br><br>If seating Height < 720 mm<br>(0,2857 * (1 000 - Seating height in mm)<br><br>If seating height > 720 mm<br><br>F <sub>2</sub> = 80 N | F <sub>2</sub> = 171 N | 1      | P       |
| tilting backrest                                            | 13 load discs                                                                                                                                                                           | 13 load discs          | 1      | n.a.    |

**Table 4: Tip Test according to DIN 68878**  
**For the models**  
**6060,6065,6080,6090,6095**

| Test description | Loads                                     | Cycles       | Verdict |
|------------------|-------------------------------------------|--------------|---------|
| Tip forward      | Seat load 85kg<br>Lifting height: 30mm    | 10000 cycles | P       |
| Tip backwards    | Seat load 85kg<br>Lifting height: 30mm    | 10000 cycles | P       |
| Tip Sidewards    | Seat load 42,5 kg<br>Lifting height: 30mm | 10000 cycles | P       |

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END OF REPORT



## CERTIFICATE

**PRÜFBESCHEINIGUNG NACH DEM PRODUKTSICHERHEITSGESETZ  
TEST CERTIFICATE IN COMPLIANCE WITH THE PRODUCT SAFETY LAW**

Bescheinigungs-Nr. (Certificate No.): **21FUP1593-01**

Gültig bis (valid until): **2026-10-26**

**Das Produkt entspricht den Anforderungen des Produktsicherheitsgesetzes (ProdSG) § 21 (1) hinsichtlich der Gewährleistung von Sicherheit und Gesundheit und entspricht den derzeit anerkannten Regeln der Technik.**

**Die Kennzeichnungspflichten des Produktes gemäß §6 ProdSG sind einzuhalten.**

(The product is in compliance with the judicial requirements of the Product Safety Law (ProdSG) § 21 (1) and the currently accepted rules of technology. The marking requirements of the product based on §6 ProdSG have to be observed)

Bescheinigungsinhaber  
(Certificate Holder)

**Flokk AS  
Drammensveien 145  
0277 Oslo  
Norway**

Markenname (Brandname)

**RBM**

Fertigungsstätte  
(Manufacturing Site)

**Flokk AS  
Sundveien  
7374 Røros  
Norway**

Produkt  
(Product)

**Konferenz- und Besucherstuhl  
Conference and visitor chair**

Typbezeichnung  
(Type)

**Noor Wooden legs (6080, 6085)  
Noor Up (6090, 6095)  
Noor 4-leg (6050, 6055)  
Noor Sledgebase (6060, 6065)  
Footbase (6070, 6075)**

Beschreibung  
(Description)

**480D x 832H x 490W; 548D x 1025H x 565W; 490D x 835H x 543W; 525D x 835H x 557W**

Prüfbericht-Nr.  
(Test Report No.)

**FUHLFP2021-05503:2021-09-23  
FUHLFP2021-08735:2021-10-07**

Geprüft nach  
(Tested according to)

**EN 16139:2013+AC:2013  
PAK-Anforderung für GS (PAH requirement for GS) AfPS GS 2019:01 PAK**

  
109265

**Intertek Deutschland GmbH  
Dipl.-Ing. Bernhard Miedtank  
Datum (Date): 2021-10-27**



*21-21*  
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Seite (page) 1/3

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#### Notes

The certificate holder or his designated representative commit themselves to manufacture the product in accordance with the tested samples to meet the requirements on providing products in the market according to § 3 and § 6 ProdSG and to enable Intertek to monitor the manufacturing process and the lawful use of the GS certification according to § 22 Para 1 ProdSG. The name and the contact address of the manufacturer or – if the manufacturer is not based in the European Economic Area – of the Importer to the European Economic Area or his representative have to be applied at the product or the documentation according to § 6 (1) 2. ProdSG. This type examination certificate entitles the certificate holder to mark all devices that are identical to the above-designated sample with the logo as shown below.

This certificate becomes invalid if the holder does not meet the commitments described above or the requirements according to § 21 of the ProdSG are changed.

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the certification agreement between Intertek and its client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this certificate. Only the Client is authorized to permit copying or distribution of this certificate and then only in its entirety. Use of Intertek's certification mark is restricted to the conditions laid out in the agreement. Any further use of the Intertek name for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. Initial Factory Assessments and Follow up Services are for the purpose of assuring appropriate usage of the certification mark in accordance with the agreement, they are not for the purposes of complete production quality control in the manufacturers responsibility and do not relieve the Client of their obligations in this respect.

Anhang 2 zur Bescheinigung Nr. (Annex 2 to Certificate No.): **21FUP1593-01**  
Seite (page) 3/3

**D = Tiefe (general depth) in mm**  
**H = Höhe (general height) in mm**  
**W = Breite (general width) in mm**

**Modell (model) 6080(1)/6085(2):**

**480D x 832H x 490W, 5.4 kg(1)/4,6 kg(2), Polypropylenschale mit Holzbeinen (1) oder 3D-Furnierschale mit Holzbeinen (2)**  
**(polypropylene shell with wooden legs (1) or 3D veneer shell with wooden legs (2) )**

**Modell (model) 6090(3)/6090(4):**

**548D x 1025H x 565W, 7.7 kg(3)/7,2 kg (4), Schale aus Polypropylen auf mittelhohem Stahlsockel (3) oder 3D-Furnierschale auf mittelhohem Stahlsockel (4)**  
**(polypropylene shell on medium-high steel sledgebase (3) or 3D veneer shell on medium-high steel sledgebase (4) )**

**Modell (model) 6050(5)/6055(6):**

**490D x 835H x 543W, 5.7 kg (5)/4,7 kg (6), Schale aus Polypropylen auf 4-Fuß-Stahlrohrsockel (5) oder 3D-Furnierschale auf 4-Fuß-Stahlrohrsockel (6)**  
**(polypropylene shell on 4 leg tubular steel base (5) or 3D veneer shell on 4 leg tubular steel base (6) )**

**Modell (model) 6060(7)/6065(8):**

**525D x 835H x 557W, 6.5 kg (7)/6.2 kg (8), Polypropylen-Schale auf Stahlsockel (7) oder 3D-Furnierschale auf Stahlsockel (8)**  
**(polypropylene shell steel sledgebase (7) or 3D veneer shell on steel sledgebase (8) )**

**Modell (model) 6070(9)/6075(10)**

**490D x 892H x 470W; 7.5 kg (9)/7.9kg, 6-8 mm Polypropylen (PP) oder 6,7 mm 3D-Furnierschalen**  
**(polypropylene (PP) or 6.7 mm 3D veneer shells)**





# MÖBELFAKTA CERTIFICATE

PRODUCT NAME: Noor  
Chair  
60xx  
Lacquered base or wire base. Seat shell in plastic or veneer. Model with plastic shell: unupholstered, upholstered seat, upholstered seat and back or fully upholstered.  
The certificate does not cover seat shells in black veneer.

Flokk's standard fabrics from Gabriel (e.g. Select) and leather from Elmo (e.g. Elmosoft) meet Möbelfakta's requirements.

DESIGNER:

COMPANY: Flokk AB

REG.NUMBER: 220131004

USE CLASS: Non-domestic

VALIDITY:: 2023-10-06 - 2028-10-04 and applies provided that the product meets the applicable requirements. If Möbelfakta Sverige AB changes the Requirements Specification for Möbelfakta, the Licensee is obliged to adapt the declared product within the transitional period announced in the requirements specification in order for the certificate to be valid. All approved products are published on [www.mobelfakta.se](https://www.mobelfakta.se).

<https://www.mobelfakta.se/Details.html?id=702>

THIS PRODUCT HAS BEEN DECLARED AND APPROVED TO THE CRITERIA OF MÖBELFAKTA:

-  **QUALITY** – THE PIECE OF FURNITURE MUST MEET ESTABLISHED INTERNATIONAL TECHNICAL STANDARDS
-  **ENVIRONMENT** – ALL STAGES OF THE MANUFACTURING PROCESS MUST BE GREEN. FROM RAW MATERIALS TO FINISHED PRODUCT
-  **RESPONSIBLE SUPPLY CHAINS** – ALL STAKEHOLDERS IN THE SUPPLY CHAIN TAKE SOCIAL, ENVIRONMENTAL AND ETHICAL RESPONSIBILITY



MÖBELFAKTA

Intertek Consumer Goods GmbH · Würzburger Straße 152 · 90766 Fürth · Germany

**Flokk AS**

Fridtjof Nansens vei 12,  
P.O. Box 5055 Majorstuen  
0301 Oslo  
Norway

**Fürth, 2019-02-27**

**Test report no. FUHLFP2019-00094**

Receipt of sample: 2019-01-07; period of investigation: 2019-01-07 – 2019-02-27

Technical laboratory management: Kerstin Scharrer / Hardlines Laboratory: Frank Urbich

The reproduction of extracts or any other kind of partial replication of the test report is only permitted with the consent of the commissioned laboratory. This test report consists of 8 page(s) and refers exclusively to the test item(s). The test methods that are identified with \*) are not listed on the appendix to the certificate of accreditation. <sup>1)</sup> Issuing date bilingual report

**Test item:** RBM Noor Sled base/PP – Item no. 6060

**Test** Test requirements for ANSI/BIFMA X5.1-2017, Type III

**Determination:**

Basis of the tests was the ANSI/BIFMA X5.1-2017 and considering the current state of the art of technique.

In summary, the test results **have satisfied** the above requirements.

**Notes:**

Please refer to the following pages for technical characteristics and results as well as detailed test conditions and requirements.

Reviewed by:

Tested by:

**Intertek Consumer Goods GmbH**

**Intertek Consumer Goods GmbH**



Stellvert. Leitung Mechanik / Dep. Manager Hardlines  
Thomas Rissmann

Sachverständiger / Technical Expert  
Anh Vu Nguyen

### Product identification:

|                          |                                            |
|--------------------------|--------------------------------------------|
| Test sample:             | Office chair                               |
| Model name:              | RBM Noor sled base/PP                      |
| Item number:             | 6060                                       |
| Manufacturer:            | Flokk AB<br>Vallgatan 1<br>S-572 23 Nässjö |
| Number of test samples:  | 1 sample                                   |
| Distributor:             | Flokk AS                                   |
| Serial number:           | --                                         |
| Distributor's PO number: | 0002438532                                 |
| Delivered on:            | 2019-01-07                                 |
| Delivered by:            | Flokk AS                                   |

### Product documents:

User guide booklet

### Scope of the investigations:

ANSI/BIFMA X5.1-2017, General-Purpose Office Chairs – Tests

### Key to findings

|        |                |
|--------|----------------|
| P =    | passed         |
| F =    | failed         |
| n.a. = | not applicable |

### Applicability of measurements:

The test results refer only to the objects to be tested. The digital images in this report are intended as supplementary information and are not an integral part of this test report.

### Measurement uncertainty:

Unless otherwise indicated, all measured dimensions are accurate in accordance with DIN ISO 2768 part 1 "c".  
For all other physical measurement values, the uncertainty range is < 5 %. Testing was done in standard climate conditions of 23°C / 50% relative humidity.

## 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 tests | Digital scale 150 kg               | PM_HL_18.314  |
| General tests | Steel ruler 500 mm                 | PM_HL_19.328  |
| General tests | Band ruler 3.000 mm                | PM_HL_18.390  |
| General tests | Digital calliper                   | PM_HL_17.044  |
| Loading tests | Dynanometer 1.000 N                | PM_HL_17.026  |
| Strength test | Pressure force-measuring cell 5 kN | PM_HL_18.358  |
| Strength test | Pressure force-measuring cell 5 kN | PM_HL_18.359  |
| Strength test | Pressure force-measuring cell 5 kN | PM_HL_18.360  |
| Strength test | Pressure force-measuring cell 5 kN | PM_HL_18.361  |
| Strength test | Dummy                              | PM_HL_18.028  |
| Strength test | Dummy                              | PM_HL_18.074  |
| Strength test | Dummy                              | PM_HL_18.097  |
| Strength test | Dummy                              | PM_HL_18.096  |
| Strength test | Weight bag 10 x a' 10 kg           | PM_HL_18.062  |
| Strength test | Weight bag 10 x a' 1 kg            | PM_HL_18.064  |
| Strength test | ANSI/BIFMA bag                     | PM_HL_18.159  |
| Strength test | Digital timer                      | PM_HL_17.375  |
| Strength test | Loading disc 10 kg                 | PM_HL_18.230  |
| Strength test | Loading disc 10 kg                 | PM_HL_18.231  |
| Strength test | Loading disc 10 kg                 | PM_HL_18.232  |
| Strength test | Loading disc 10 kg                 | PM_HL_18.233  |
| Strength test | Loading disc 10 kg                 | PM_HL_18.234  |
| Strength test | Loading disc 10 kg                 | PM_HL_18.235  |
| Strength test | Loading disc 10 kg                 | PM_HL_18.236  |
| Strength test | Loading disc 10 kg                 | PM_HL_18.237  |
| Strength test | Loading disc 10 kg                 | PM_HL_18.238  |
| Strength test | Loading disc 10 kg                 | PM_HL_18.239  |
| Strength test | Loading disc 10 kg                 | PM_HL_18.240  |
| Strength test | Loading disc 10 kg                 | PM_HL_18.241  |
| Strength test | Loading disc 10 kg                 | PM_HL_18.242  |
|               |                                    |               |
|               |                                    |               |

## General Testing

### Technical characteristics

#### General dimensions (measurements in mm)

|            |         |
|------------|---------|
| Width      | 555     |
| Depth      | 514     |
| Height     | 832     |
| Net weight | 6.65 kg |

### Product description

4-leg chair with seat and back shell of one piece

### Product pictures:



Pic.1: Total view

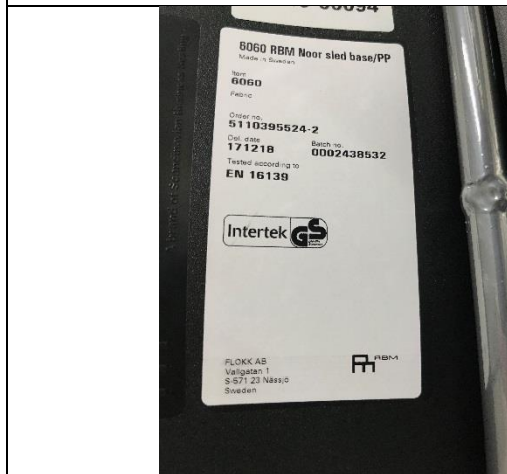
Pic.2: Side view



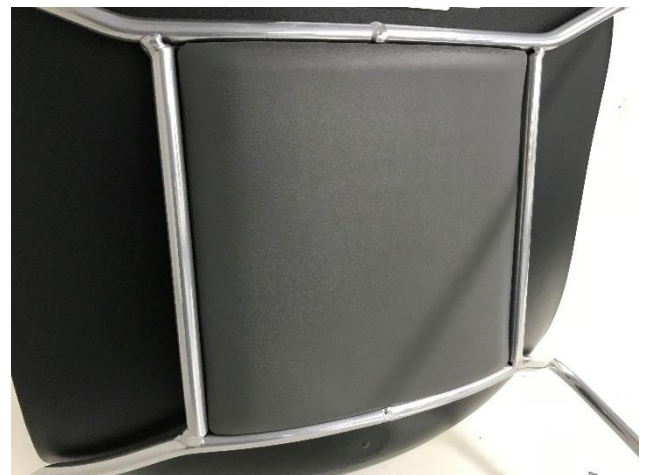
Pic.3: Bottom view



Pic.4: Foot glider



Pic.5: Product marking



Pic.6: Seat base

**Table 1 – Test Guide by Chair Type**

| Section Number | ANSI/BIFMA X5.1 Clause                                   | Type I | Type II | Type III |
|----------------|----------------------------------------------------------|--------|---------|----------|
| 5              | Backrest Strength Test – Static – Type I and II          | X      | X       |          |
| 6              | Backrest Strength Test – Static – Type III               |        |         | X        |
| 7              | Drop Test – Dynamic                                      | X      | X       | X        |
| 8              | Swivel Test – Cyclic                                     | X      | X       | X        |
| 9              | Tilt Mechanism Test – Cyclic                             | X      | X       |          |
| 10             | Seating Durability Test – Cyclic                         | X      | X       | X        |
| 11             | Stability Tests                                          | X      | X       | X        |
| 12             | Arm Strength Test – Vertical – Static                    | X      | X       | X        |
| 13             | Arm Strength Test – Horizontal - Static                  | X      | X       | X        |
| 14             | Backrest Durability Test – Cyclic – Type I               | X      |         |          |
| 15             | Backrest Durability Test – Cyclic – Type II and Type III |        | X       | X        |
| 16             | Caster/Chair Base Durability Test - Cyclic               | X      | X       | X        |
| 17             | Leg Strength Test – Front and Side Application           | X      | X       | X        |
| 18             | Footrest Static Load Test - Vertical                     | X      | X       | X        |
| 19             | Footrest Durability Test – Vertical Cyclic               | X      | X       | X        |
| 20             | Arm Durability Test – Cyclic                             | X      | X       | X        |
| 21             | Out Stop Test for Chair with Manually Adjustable         | X      | X       | X        |
| 22             | Tablet Arm Chair Static Load Test                        | X      | X       | X        |
| 23             | Tablet Arm Chair Load Ease Test – Cyclic                 | X      | X       | X        |
| 24             | Structural Durability Test – Cyclic                      | X      | X       | X        |

## Technical testing

| Test description                                                                       | ANSI/BIFMA X5.1 Clause | Load                                                                                                             | Requirement                                                                                        | Results                     |
|----------------------------------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------|
| Backrest Strength Test - Static - Type I and II                                        | 5                      | Functional load:<br>667 N<br>Proof load:<br>1001 N                                                               | There shall be no loss of serviceability to the chair.                                             | n.a.<br>(Type III)          |
| Backrest Strength Test - Static - Type III                                             | 6                      | Functional load:<br>667 N<br>Proof load:<br>1001 N                                                               | No loss of serviceability.                                                                         | P                           |
| Drop Test - Dynamic                                                                    | 7                      | Functional load bag:<br>102 kg<br>Proof load bag:<br>136 kg<br>Drop height: 152 mm                               | No loss of serviceability.                                                                         | P                           |
| Swivel Test - Cyclic                                                                   | 8                      | Seat load: 122 kg<br>Rotate 60.000 cycles                                                                        | No loss of serviceability to the chair.                                                            | n.a.<br>(no swivel chair)   |
| Tilt Mechanism Test - Cyclic                                                           | 9                      | Test load: 109 kg<br>Tilting to front and back stops 300.000 cycles                                              | No loss of serviceability to the tilt mechanism.                                                   | n.a.<br>(no tilt mechanism) |
| Seating Durability Tests – Cyclic<br>Impact Test                                       | 10.3                   | Functional load bag:<br>57 kg<br>Drop height: 36 mm<br>100.000 cycles                                            | No loss of serviceability to the chair after completion of both the impact and load-ease tests.    | P                           |
| Seating Durability Tests – Cyclic<br>Front Corner Load-Ease Test – Cyclic – Off-center | 10.4                   | Force: 890 N<br>20.000 cycles each side                                                                          |                                                                                                    | P                           |
| Stability Tests – Rear Stability for Type III                                          | 11.3.1                 | Force:<br>$F = 0.1964 (1195 - H) \text{ N}$<br>6 discs                                                           | Tipping Force: > 170 N                                                                             | P                           |
| Stability Tests – Rear Stability for Type I or II                                      | 11.3.2                 | Tilted to back stop<br>13 discs                                                                                  | The chair shall not tip over.                                                                      | n.a.<br>(Type III)          |
| Front Stability                                                                        | 11.4                   | Seat load: 61 kg<br>60 mm from front center<br>Hori. Force: 20 N                                                 | The chair did not tip over as the result of the force application.<br>Hori. Force at tipping: 44 N | P                           |
| Arm Strength Test – Vertical – Static                                                  | 12                     | Func. F: 750 N, 60 s<br>Proof F: 1125 N, 15 s                                                                    | No loss of serviceability.                                                                         | n.a.<br>(no armrests)       |
| Arm Strength Test - Horizontal - Static                                                | 13                     | Func. F: 445 N, 60 s<br>Proof F: 667 N, 15 s                                                                     | No loss of serviceability.                                                                         | n.a.<br>(no armrests)       |
| Backrest Durability Test - Cyclic - Type I                                             | 14                     | Load weight: 109 kg<br>F: 445 N<br>120.000 cycles if Back width ≤ 406 mm<br>80.000 cycles if Back width > 406 mm | There shall be no loss of serviceability.                                                          | n.a.<br>(Type III)          |
| Backrest Durability Test - Cyclic - Type II and III                                    | 15                     | Load weight: 109 kg<br>F: 334 N<br>120.000 cycles if Back width ≤ 406 mm<br>80.000 cycles if Back width > 406 mm | Back width: 470 mm<br>No loss of serviceability.                                                   | P                           |

| Title                                                                   | ANSI/BIFMA X5.1 Clause | Test description                                                                | Requirement                                                                                                                                                                 | Results                            |
|-------------------------------------------------------------------------|------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| Caster/Chair Base Durability Test for Pedestal Base Chairs              | 16.1                   | Load: 122 kg<br>2000 cycles over obstacles<br>98.000 cycles over smooth surface | No loss of serviceability. No part of the caster did separate from the chair as a result of the application of the 22 N force.                                              | n.a.<br>(no pedestal base)         |
| Caster/Chair Frame Durability Test for Non-pedestal Chairs with Casters | 16.2                   | Load: 122 kg<br>2000 cycles with obstacles<br>98.000 cycles smooth surface      | No loss of serviceability to the chair.                                                                                                                                     | n.a.<br>(no caster)                |
| Leg Strength Test - Front and Side Application                          | 17                     | Func. F: 334 N, 60 s<br>Proof F: 503 N, 60 s                                    | No loss of serviceability to the chair.                                                                                                                                     | n.a.<br>(sled base)                |
| Footrest Static Load Test - Vertical                                    | 18                     | Func. F: 445 N, 60 s<br>Proof F: 1334 N, 60 s                                   | There shall be no loss of serviceability (445 N) or sudden loss of footrest height (1334 N).                                                                                | n.a.<br>(no footrest)              |
| Footrest Durability Test - Vertical - Cyclic                            | 19                     | Vert. Force: 890 N<br>50.000 cycles                                             | There shall be no loss of serviceability. Adjustable footrests that move more than 25 mm during the first 500 cycles shall be considered to have lost their serviceability. | n.a.<br>(no footrest)              |
| Arm Durability Test - Cyclic                                            | 20                     | Inclination 10° degree<br>F: 400 N<br>60.000 cycles                             | No loss of serviceability to the chair.                                                                                                                                     | n.a.<br>(no armrests)              |
| Out Stop Tests for Chairs with Manually Adjustable Seat Depth           | 21                     | Seat load: 75 kg<br>Pull F: 25 kg<br>25 cycles                                  | No loss of serviceability to the chair.                                                                                                                                     | n.a.<br>(no seat depth adjustment) |
| Tablet Arm Chair Static Load Test                                       | 22                     | F: 68 kg, 60 s                                                                  | No loss of serviceability to the chair.                                                                                                                                     | n.a.<br>(no tablet arm)            |
| Tablet Arm Chair Load Ease Test - Cyclic                                | 23                     | F: 25 kg<br>100.000 cycles                                                      | No loss of serviceability to the chair.                                                                                                                                     | n.a.<br>(no tablet arm)            |
| Structural Durability Test - Cyclic                                     | 24                     | Seat load: 109 kg<br>F: 334 N<br>25.000 cycles                                  | No loss of serviceability to the chair.                                                                                                                                     | P                                  |

# Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

## Noor Sledgebase



---

**Flokk**

---

The Norwegian EPD Foundation

**Owner of the declaration:**  
Flokk AS

**Product:**  
Noor Sledgebase

**Declared unit:**  
1 pcs

**This declaration is based on Product Category Rules:**  
CEN Standard EN 15804:2012+A2:2019 serves as core PCR  
NPCR 026:2022 Part B for Furniture

**Program operator:**  
The Norwegian EPD Foundation

**Declaration number:**  
NEPD-5070-4405-EN

**Registration number:**  
NEPD-5070-4405-EN

**Issue date:** 27.09.2023

**Valid to:** 27.09.2028

**EPD Software:**  
LCA.no EPD generator ID: 73567

## General information

### Product

Noor Sledgebase

### Program operator:

Post Box 5250 Majorstuen, 0303 Oslo, Norway  
The Norwegian EPD Foundation  
Phone: +47 23 08 80 00  
web: [post@epd-norge.no](mailto:post@epd-norge.no)

### Declaration number:

NEPD-5070-4405-EN

### This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012+A2:2019 serves as core PCR  
NPCR 026:2022 Part B for Furniture

### Statement of liability:

The owner of the declaration shall be liable for the underlying information and evidence. EPD Norway shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

### Declared unit:

1 pcs Noor Sledgebase

### Declared unit (cradle to gate) with option:

A1-A3,A4,A5,B2,B3,B4,C1,C2,C3,C4,D

### Functional unit:

Noor Sledgebase 6060 (including packaging)

### General information on verification of EPD from EPD tools:

Independent verification of data, other environmental information and the declaration according to ISO 14025:2010, § 8.1.3 and § 8.1.4. Verification of each EPD is made according to EPD-Norway's guidelines for verification and approval requiring that tools are i integrated into the company's environmental management system, ii the procedures for use of the EPD tool are approved by EPD-Norway, and iii the process is reviewed annually by an independent third party verifier. See Appendix G of EPD-Norway's General Programme Instructions for further information on EPD tools

### Verification of EPD tool:

Independent third party verification of the EPD tool, background data and test-EPD in accordance with EPD Norway's procedures and guidelines for verification and approval of EPD tools.

Third party verifier:

Elisabet Amat, GREENIZE projects  
(no signature required)

### Owner of the declaration:

Flokk AS  
Contact person: Atle Thiis-Messel  
Phone: 0047 98 25 68 30  
e-mail: [atle.messel@flokk.com](mailto:atle.messel@flokk.com)

### Manufacturer:

Flokk AS  
Drammensveien 145,  
0277 Oslo, Norway

### Place of production:

Flokk - Nässjö  
Vallgatan 1  
571 23 Nässjö, Sweden

### Management system:

ISO 14001, ISO 9001, ISO 50001(Norway, Sweden)

### Organisation no:

No 928 902 749

### Issue date:

27.09.2023

### Valid to:

27.09.2028

### Year of study:

2023

### Comparability:

EPD of construction products may not be comparable if they not comply with EN 15804 and seen in a building context.

### Development and verification of EPD:

The declaration is created using EPD tool lca.tools ver EPD2022.03, developed by LCA.no. The EPD tool is integrated in the company's management system, and has been approved by EPD Norway.

Developer of EPD: Kenneth Dam Lindegaard Knudsen

Reviewer of company-specific input data and EPD: Fabio Fava

### Approved:



Håkon Hauan, CEO EPD-Norge

## Product

### Product description:

Noor is a colourful, wide and versatile contemporary classic that brings life to rooms.

A collection of meeting, conference and canteen chairs with high ergonomic comfort, adding vitality to working spaces and sociable places.

Noor Sledgebase has a slim yet sturdy stance. It refines classic Scandinavian design by adding a stylistic twist. Bringing distinctive character to lively environments such as schools, universities and canteens, this elegantly robust chair can take a bit of a bashing while remaining as rock solid as ever.

### Product specification

The model studied in this declaration is the Noor Sledgebase (6060), including packaging. The model declared does not include any options such as armrests, etc.

The key environmental indicators for the other models of the family, and applicable options of the product collection are presented in a table on page 12 of this declaration.

| Materials                              | kg   | %     | Recycled share in material (kg) | Recycled share in material (%) |
|----------------------------------------|------|-------|---------------------------------|--------------------------------|
| Powder coating                         | 0,02 | 0,24  | 0,00                            | 0,00                           |
| Plastic - Polypropylene (PP)           | 2,51 | 38,15 | 0,00                            | 0,00                           |
| Metal - Steel                          | 4,04 | 61,35 | 0,73                            | 17,96                          |
| Plastic - Polystyrene expandable (EPS) | 0,01 | 0,12  | 0,00                            | 0,00                           |
| Printed paper                          | 0,01 | 0,14  | 0,00                            | 34,31                          |
| Total                                  | 6,58 |       | 0,73                            |                                |

| Packaging             | kg   | %     | Recycled share in material (kg) | Recycled share in material (%) |
|-----------------------|------|-------|---------------------------------|--------------------------------|
| Packaging - Cardboard | 0,49 | 62,03 | 0,00                            | 0,00                           |
| Recycled cardboard    | 0,30 | 37,97 | 0,30                            | 100,00                         |
| Total incl. packaging | 7,37 |       | 1,03                            |                                |

### Technical data:

Total weight: 6,58 kg (packaging excluded)

Total weight: 7,37 kg (packaging included)

### Market:

Worldwide

### Reference service life, product

5 years

### Reference service life, building

## LCA: Calculation rules

### Declared unit:

1 pcs Noor Sledgebase

### Cut-off criteria:

All major raw materials and all the essential energy is included. The production processes for raw materials and energy flows with very small amounts (less than 1%) are not included. These cut-off criteria do not apply for hazardous materials and substances.

### Allocation:

The allocation is made in accordance with the provisions of EN 15804. Incoming energy and water and waste production in-house is allocated equally among all products through mass allocation. Effects of primary production of recycled materials is allocated to the main product in which the material was used. The recycling process and transportation of the material is allocated to this analysis.

### Data quality:

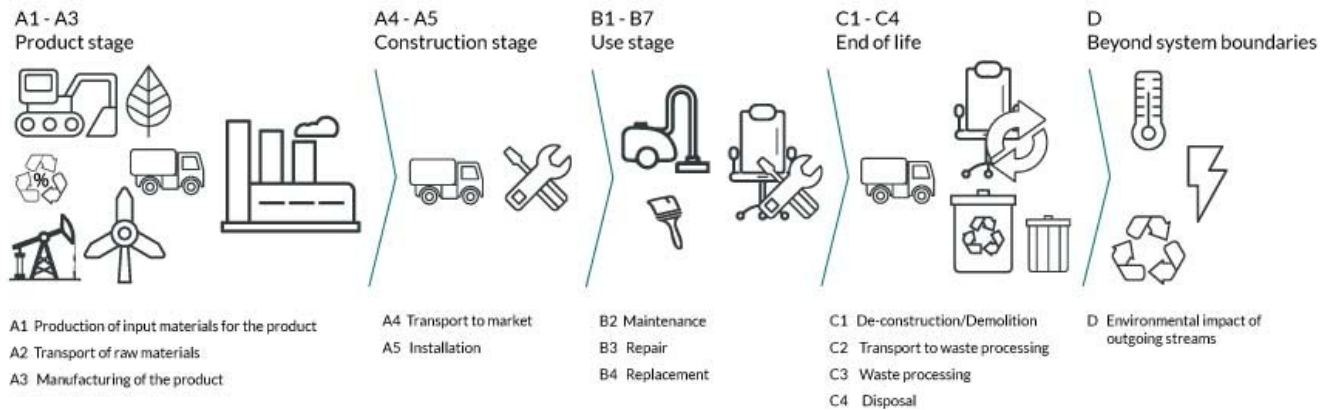
Specific data for the product composition are provided by the manufacturer. They represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on registered EPDs according to EN 15804, Ostfold Research databases, ecoinvent and other LCA databases. The data quality of the raw materials in A1 is presented in the table below.

| Materials                              | Source                 | Data quality | Year |
|----------------------------------------|------------------------|--------------|------|
| Metal - Steel                          | ecoinvent 3.6          | Database     | 2019 |
| Plastic - Polypropylene (PP)           | ecoinvent 3.6          | Database     | 2019 |
| Plastic - Polystyrene expandable (EPS) | ecoinvent 3.6          | Database     | 2019 |
| Powder coating                         | Ecoinvent 3.6          | Database     | 2019 |
| Printed paper                          | ecoinvent 3.6          | Database     | 2019 |
| Metal - Steel                          | Modified ecoinvent 3.6 | Database     | 2019 |
| Packaging - Cardboard                  | Modified ecoinvent 3.6 | Database     | 2019 |
| Recycled cardboard                     | Modified ecoinvent 3.6 | Database     | 2019 |

**System boundaries (X=included, MND=module not declared, MNR=module not relevant)**

| Product stage |           |               | Construction installation stage |          | Use stage |             |        |             |               |                        |                       | End of life stage          |           |                  |          | Beyond the system boundaries        |
|---------------|-----------|---------------|---------------------------------|----------|-----------|-------------|--------|-------------|---------------|------------------------|-----------------------|----------------------------|-----------|------------------|----------|-------------------------------------|
| Raw materials | Transport | Manufacturing | Transport                       | Assembly | Use       | Maintenance | Repair | Replacement | Refurbishment | Operational energy use | Operational water use | De-construction demolition | Transport | Waste processing | Disposal | Reuse-Recovery- Recycling-potential |
| A1            | A2        | A3            | A4                              | A5       | B1        | B2          | B3     | B4          | B5            | B6                     | B7                    | C1                         | C2        | C3               | C4       | D                                   |
| X             | X         | X             | X                               | X        | MND       | X           | X      | X           | MND           | MND                    | MND                   | X                          | X         | X                | X        | X                                   |

**System boundary:**



**Additional technical information:**

## LCA: Scenarios and additional technical information

The following information describe the scenarios in the different modules of the EPD.

| Transport from production place to user (A4)                                                                      | Capacity utilisation (incl. return) % | Distance (km) | Fuel/Energy Consumption | Unit  | Value (Liter/tonne) |
|-------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------|-------------------------|-------|---------------------|
| Truck, over 32 tonnes, EURO 6 (km)                                                                                | 53,3 %                                | 373           | 0,023                   | l/tkm | 8,58                |
| Assembly (A5)                                                                                                     | Unit                                  | Value         |                         |       |                     |
| Waste, packaging, cardboard, 100 % recycled, to average treatment (kg)                                            | kg                                    | 0,30          |                         |       |                     |
| Waste, packaging, corrugated board box, 0 % recycled, to average treatment (kg)                                   | kg                                    | 0,49          |                         |       |                     |
| Maintenance (B2)                                                                                                  | Unit                                  | Value         |                         |       |                     |
| Electricity, Nordic (kWh)                                                                                         | kWh/DU                                | 0,81          |                         |       |                     |
| Water, tap water (m3)                                                                                             | m3/DU                                 | 11,70         |                         |       |                     |
| Repair (B3)                                                                                                       | Unit                                  | Value         |                         |       |                     |
| Electricity, Nordic (kWh)                                                                                         | kWh/DU                                | 0,55          |                         |       |                     |
| Transport to waste processing (C2)                                                                                | Capacity utilisation (incl. return) % | Distance (km) | Fuel/Energy Consumption | Unit  | Value (Liter/tonne) |
| Truck, 16-32 tonnes, EURO 6 (km)                                                                                  | 36,7 %                                | 100           | 0,043                   | l/tkm | 4,30                |
| Waste processing (C3)                                                                                             | Unit                                  | Value         |                         |       |                     |
| Waste treatment per kg Expanded Polystyrene (EPS), incineration - C3 (kg)                                         | kg                                    | 0,01          |                         |       |                     |
| Waste treatment per kg Graphical paper, incineration with fly ash extraction (kg)                                 | kg                                    | 0,01          |                         |       |                     |
| Waste treatment per kg Non-hazardous waste, incineration with fly ash extraction - C3 (kg)                        | kg                                    | 0,02          |                         |       |                     |
| Waste treatment per kg Polypropylene (PP), incineration with fly ash extraction - C3 (kg)                         | kg                                    | 2,51          |                         |       |                     |
| Waste treatment per kg Scrap steel, incineration with fly ash extraction (kg)                                     | kg                                    | 4,04          |                         |       |                     |
| Waste, materials to recycling (kg)                                                                                | kg                                    | 1,37          |                         |       |                     |
| Disposal (C4)                                                                                                     | Unit                                  | Value         |                         |       |                     |
| Landfilling of ashes and residues from incineration of Scrap steel (kg)                                           | kg                                    | 2,67          |                         |       |                     |
| Landfilling of ashes from incineration of expanded polystyrene (EPS), process per kg ashes and residues - C4 (kg) | kg                                    | 0,00          |                         |       |                     |
| Landfilling of ashes from incineration of Graphical paper, process of ashes and residues (kg)                     | kg                                    | 0,00          |                         |       |                     |
| Landfilling of ashes from incineration of Non-hazardous waste, process per kg ashes and residues - C4 (kg)        | kg                                    | 0,00          |                         |       |                     |
| Landfilling of ashes from incineration of Polypropylene, PP, process per kg ashes and residues - C4 (kg)          | kg                                    | 0,07          |                         |       |                     |
| Benefits and loads beyond the system boundaries (D)                                                               | Unit                                  | Value         |                         |       |                     |
| Substitution of electricity, in Norway (MJ)                                                                       | MJ                                    | 4,12          |                         |       |                     |
| Substitution of primary steel with net scrap (kg)                                                                 | kg                                    | 1,12          |                         |       |                     |
| Substitution of thermal energy, district heating, in Norway (MJ)                                                  | MJ                                    | 62,27         |                         |       |                     |

## LCA: Results

The LCA results are presented below for the declared unit defined on page 2 of the EPD document.

| Environmental impact             |                        |           |          |          |          |          |  |
|----------------------------------|------------------------|-----------|----------|----------|----------|----------|--|
| Indicator                        | Unit                   | A1-A3     | A4       | A5       | B2       | B3       |  |
| GWP-total                        | kg CO <sub>2</sub> -eq | 1,70E+01  | 2,40E-01 | 1,36E+00 | 4,16E+00 | 8,01E-02 |  |
| GWP-fossil                       | kg CO <sub>2</sub> -eq | 1,82E+01  | 2,40E-01 | 1,28E-02 | 4,12E+00 | 7,47E-02 |  |
| GWP-biogenic                     | kg CO <sub>2</sub> -eq | -1,17E+00 | 1,03E-04 | 1,35E+00 | 2,72E-02 | 1,36E-03 |  |
| GWP-luluc                        | kg CO <sub>2</sub> -eq | 1,96E-02  | 7,30E-05 | 4,24E-06 | 1,26E-02 | 4,09E-03 |  |
| ODP                              | kg CFC11 -eq           | 1,08E-06  | 5,78E-08 | 2,71E-09 | 3,67E-07 | 8,08E-09 |  |
| AP                               | mol H <sup>+</sup> -eq | 8,78E-02  | 7,71E-04 | 6,07E-05 | 2,39E-02 | 3,44E-04 |  |
| EP-FreshWater                    | kg P -eq               | 9,32E-04  | 1,91E-06 | 1,05E-07 | 3,28E-04 | 4,94E-06 |  |
| EP-Marine                        | kg N -eq               | 1,66E-02  | 1,69E-04 | 2,01E-05 | 3,79E-03 | 5,44E-05 |  |
| EP-Terrestrial                   | mol N -eq              | 1,85E-01  | 1,88E-03 | 2,17E-04 | 4,43E-02 | 7,31E-04 |  |
| POCP                             | kg NMVOC -eq           | 7,25E-02  | 7,40E-04 | 6,25E-05 | 1,38E-02 | 1,71E-04 |  |
| ADP-minerals&metals <sup>1</sup> | kg Sb -eq              | 2,75E-04  | 4,27E-06 | 3,12E-07 | 1,14E-04 | 1,16E-06 |  |
| ADP-fossil <sup>1</sup>          | MJ                     | 3,51E+02  | 3,89E+00 | 1,79E-01 | 7,15E+01 | 2,02E+00 |  |
| WDP <sup>1</sup>                 | m <sup>3</sup>         | 5,94E+03  | 2,98E+00 | 2,27E-01 | 1,46E+03 | 1,56E+02 |  |

| Indicator                        | Unit                   | B4 | C1 | C2       | C3       | C4       | D         |
|----------------------------------|------------------------|----|----|----------|----------|----------|-----------|
| GWP-total                        | kg CO <sub>2</sub> -eq | 0  | 0  | 1,21E-01 | 6,50E+00 | 3,28E-02 | -1,61E+00 |
| GWP-fossil                       | kg CO <sub>2</sub> -eq | 0  | 0  | 1,20E-01 | 6,48E+00 | 3,28E-02 | -1,60E+00 |
| GWP-biogenic                     | kg CO <sub>2</sub> -eq | 0  | 0  | 4,99E-05 | 1,60E-02 | 2,40E-05 | -1,43E-03 |
| GWP-luluc                        | kg CO <sub>2</sub> -eq | 0  | 0  | 4,29E-05 | 1,43E-05 | 9,48E-06 | -1,30E-02 |
| ODP                              | kg CFC11 -eq           | 0  | 0  | 2,73E-08 | 7,13E-09 | 9,58E-09 | -2,63E-02 |
| AP                               | mol H <sup>+</sup> -eq | 0  | 0  | 3,46E-04 | 9,56E-04 | 2,22E-04 | -9,12E-03 |
| EP-FreshWater                    | kg P -eq               | 0  | 0  | 9,62E-07 | 1,20E-06 | 3,37E-07 | -1,08E-04 |
| EP-Marine                        | kg N -eq               | 0  | 0  | 6,85E-05 | 4,42E-04 | 7,87E-05 | -2,24E-03 |
| EP-Terrestrial                   | mol N -eq              | 0  | 0  | 7,66E-04 | 4,79E-03 | 8,72E-04 | -2,35E-02 |
| POCP                             | kg NMVOC -eq           | 0  | 0  | 2,94E-04 | 1,19E-03 | 2,50E-04 | -9,10E-03 |
| ADP-minerals&metals <sup>1</sup> | kg Sb -eq              | 0  | 0  | 3,33E-06 | 3,75E-07 | 5,34E-07 | -2,49E-05 |
| ADP-fossil <sup>1</sup>          | MJ                     | 0  | 0  | 1,82E+00 | 6,36E-01 | 7,12E-01 | -1,56E+01 |
| WDP <sup>1</sup>                 | m <sup>3</sup>         | 0  | 0  | 1,76E+00 | 1,59E+00 | 1,62E+00 | -1,57E-01 |

GWP-total = Global Warming Potential total; GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption

"Reading example: 9,0 E-03 = 9,0\*10<sup>-3</sup> = 0,009"

\*INA Indicator Not Assessed

1. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator

## Remarks to environmental impacts

### Additional environmental impact indicators

| Indicator                                                                                             | Unit              | A1-A3    | A4       | A5       | B2       | B3       |
|-------------------------------------------------------------------------------------------------------|-------------------|----------|----------|----------|----------|----------|
|  PM                  | Disease incidence | 1,31E-06 | 2,20E-08 | 8,96E-10 | 1,99E-07 | 1,83E-09 |
|  IRP <sup>2</sup>    | kgBq U235 -eq     | 7,57E-01 | 1,70E-02 | 7,68E-04 | 5,42E-01 | 4,60E-02 |
|  ETP-fw <sup>1</sup> | CTUe              | 5,99E+02 | 2,85E+00 | 2,39E-01 | 7,79E+01 | 2,53E+00 |
|  HTP-c <sup>1</sup>  | CTUh              | 7,62E-08 | 0,00E+00 | 8,00E-12 | 1,12E-08 | 5,90E-11 |
|  HTP-nc <sup>1</sup> | CTUh              | 5,98E-07 | 2,75E-09 | 3,00E-10 | 2,49E-07 | 1,55E-09 |
|  SQP <sup>1</sup>    | dimensionless     | 2,50E+02 | 4,46E+00 | 1,20E-01 | 2,14E+01 | 1,52E+00 |

| Indicator                                                                                             | Unit              | B4 | C1 | C2       | C3       | C4       | D         |
|-------------------------------------------------------------------------------------------------------|-------------------|----|----|----------|----------|----------|-----------|
|  PM                  | Disease incidence | 0  | 0  | 7,38E-09 | 1,08E-08 | 4,00E-09 | -2,83E-07 |
|  IRP <sup>2</sup>    | kgBq U235 -eq     | 0  | 0  | 7,96E-03 | 1,35E-03 | 2,87E-03 | -2,85E-02 |
|  ETP-fw <sup>1</sup> | CTUe              | 0  | 0  | 1,35E+00 | 2,94E+00 | 4,52E-01 | -9,70E+01 |
|  HTP-c <sup>1</sup>  | CTUh              | 0  | 0  | 0,00E+00 | 3,42E-10 | 1,60E-11 | -6,46E-09 |
|  HTP-nc <sup>1</sup> | CTUh              | 0  | 0  | 1,48E-09 | 6,52E-09 | 4,74E-10 | 1,02E-07  |
|  SQP <sup>1</sup>    | dimensionless     | 0  | 0  | 1,27E+00 | 1,05E-01 | 1,56E+00 | -3,53E+01 |

PM = Particulate Matter emissions; IRP = Ionizing radiation – human health; ETP-fw = Eco toxicity – freshwater; HTP-c = Human toxicity – cancer effects; HTP-nc = Human toxicity – non cancer effects; SQP = Soil Quality (dimensionless)

"Reading example: 9,0 E-03 = 9,0\*10<sup>-3</sup> = 0,009"

\*INA Indicator Not Assessed

1. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator
2. This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

| Resource use |       |                |          |          |           |          |          |
|--------------|-------|----------------|----------|----------|-----------|----------|----------|
| Indicator    |       | Unit           | A1-A3    | A4       | A5        | B2       | B3       |
|              | PERE  | MJ             | 6,84E+01 | 4,90E-02 | 2,95E-03  | 1,22E+01 | 1,98E+00 |
|              | PERM  | MJ             | 1,04E+01 | 0,00E+00 | -9,59E+00 | 0,00E+00 | 0,00E+00 |
|              | PERT  | MJ             | 7,88E+01 | 4,90E-02 | -9,59E+00 | 1,22E+01 | 1,98E+00 |
|              | PENRE | MJ             | 2,69E+02 | 3,89E+00 | 1,79E-01  | 7,16E+01 | 2,05E+00 |
|              | PENRM | MJ             | 8,26E+01 | 0,00E+00 | 0,00E+00  | 0,00E+00 | 0,00E+00 |
|              | PENRT | MJ             | 3,52E+02 | 3,89E+00 | 1,79E-01  | 7,16E+01 | 2,05E+00 |
|              | SM    | kg             | 1,03E+00 | 0,00E+00 | 0,00E+00  | 0,00E+00 | 0,00E+00 |
|              | RSF   | MJ             | 8,00E-01 | 1,71E-03 | 9,80E-05  | 7,76E-01 | 2,00E-02 |
|              | NRSF  | MJ             | 1,32E-01 | 5,74E-03 | 4,04E-04  | 7,36E-01 | 0,00E+00 |
|              | FW    | m <sup>3</sup> | 1,84E-01 | 4,43E-04 | 8,47E-05  | 1,18E+01 | 9,03E-03 |

| Indicator |       | Unit           | B4 | C1 | C2       | C3        | C4       | D         |
|-----------|-------|----------------|----|----|----------|-----------|----------|-----------|
|           | PERE  | MJ             | 0  | 0  | 2,61E-02 | 2,36E-02  | 1,42E-02 | -3,27E+01 |
|           | PERM  | MJ             | 0  | 0  | 0,00E+00 | -1,27E-01 | 0,00E+00 | 0,00E+00  |
|           | PERT  | MJ             | 0  | 0  | 2,61E-02 | -1,04E-01 | 1,42E-02 | -3,27E+01 |
|           | PENRE | MJ             | 0  | 0  | 1,82E+00 | 6,38E-01  | 7,12E-01 | -1,56E+01 |
|           | PENRM | MJ             | 0  | 0  | 0,00E+00 | -8,26E+01 | 0,00E+00 | 0,00E+00  |
|           | PENRT | MJ             | 0  | 0  | 1,82E+00 | -8,19E+01 | 7,12E-01 | -1,56E+01 |
|           | SM    | kg             | 0  | 0  | 0,00E+00 | 0,00E+00  | 0,00E+00 | 0,00E+00  |
|           | RSF   | MJ             | 0  | 0  | 9,33E-04 | 5,66E-04  | 3,75E-04 | 3,91E-02  |
|           | NRSF  | MJ             | 0  | 0  | 3,34E-03 | 0,00E+00  | 2,42E-02 | -5,90E-01 |
|           | FW    | m <sup>3</sup> | 0  | 0  | 1,95E-04 | 1,42E-03  | 6,42E-04 | -4,10E-02 |

PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non renewable primary energy resources used as raw materials; PENRT = Total use of non renewable primary energy resources; SM = Use of secondary materials; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Net use of fresh water

"Reading example: 9,0 E-03 = 9,0\*10<sup>-3</sup> = 0,009"

\*INA Indicator Not Assessed

| End of life - Waste |      |      |          |          |          |          |          |
|---------------------|------|------|----------|----------|----------|----------|----------|
| Indicator           |      | Unit | A1-A3    | A4       | A5       | B2       | B3       |
|                     | HWD  | kg   | 1,28E-01 | 2,13E-04 | 0,00E+00 | 1,32E-02 | 1,89E-04 |
|                     | NHWD | kg   | 4,45E+00 | 3,38E-01 | 7,93E-01 | 8,51E-01 | 1,25E-02 |
|                     | RWD  | kg   | 7,05E-04 | 2,66E-05 | 0,00E+00 | 4,33E-04 | 2,11E-05 |

| Indicator |      | Unit | B4 | C1 | C2       | C3       | C4       | D         |
|-----------|------|------|----|----|----------|----------|----------|-----------|
|           | HWD  | kg   | 0  | 0  | 9,39E-05 | 0,00E+00 | 2,72E+00 | -6,67E-03 |
|           | NHWD | kg   | 0  | 0  | 8,86E-02 | 1,60E-02 | 5,05E-02 | -6,28E-01 |
|           | RWD  | kg   | 0  | 0  | 1,24E-05 | 0,00E+00 | 4,37E-06 | -2,36E-05 |

HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed

"Reading example: 9,0 E-03 = 9,0\*10<sup>-3</sup> = 0,009"

\*INA Indicator Not Assessed

| End of life - Output flow |     |      |          |          |          |          |          |
|---------------------------|-----|------|----------|----------|----------|----------|----------|
| Indicator                 |     | Unit | A1-A3    | A4       | A5       | B2       | B3       |
|                           | CRU | kg   | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
|                           | MFR | kg   | 5,35E-01 | 0,00E+00 | 7,37E-01 | 0,00E+00 | 0,00E+00 |
|                           | MER | kg   | 2,97E-06 | 0,00E+00 | 1,08E-06 | 0,00E+00 | 0,00E+00 |
|                           | EEE | MJ   | 2,82E-01 | 0,00E+00 | 4,53E-02 | 0,00E+00 | 0,00E+00 |
|                           | EET | MJ   | 4,26E+00 | 0,00E+00 | 6,86E-01 | 0,00E+00 | 0,00E+00 |

| Indicator |     | Unit | B4 | C1 | C2       | C3       | C4       | D        |
|-----------|-----|------|----|----|----------|----------|----------|----------|
|           | CRU | kg   | 0  | 0  | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
|           | MFR | kg   | 0  | 0  | 0,00E+00 | 1,37E+00 | 0,00E+00 | 0,00E+00 |
|           | MER | kg   | 0  | 0  | 0,00E+00 | 6,58E+00 | 0,00E+00 | 0,00E+00 |
|           | EEE | MJ   | 0  | 0  | 0,00E+00 | 4,22E+00 | 0,00E+00 | 0,00E+00 |
|           | EET | MJ   | 0  | 0  | 0,00E+00 | 6,38E+01 | 0,00E+00 | 0,00E+00 |

CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported energy electrical; EET = Exported energy thermal

"Reading example: 9,0 E-03 = 9,0\*10<sup>-3</sup> = 0,009"

\*INA Indicator Not Assessed

| Biogenic Carbon Content                           |      |                     |
|---------------------------------------------------|------|---------------------|
| Indicator                                         | Unit | At the factory gate |
| Biogenic carbon content in product                | kg C | 4,25E-03            |
| Biogenic carbon content in accompanying packaging | kg C | 3,67E-01            |

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO<sub>2</sub>

## Additional requirements

### Greenhouse gas emissions from the use of electricity in the manufacturing phase

National production mix from import, low voltage (production of transmission lines, in addition to direct emissions and losses in grid) of applied electricity for the manufacturing process (A3).

| Electricity mix                             | Data source   | Amount | Unit                      |
|---------------------------------------------|---------------|--------|---------------------------|
| Electricity, high voltage, hydro (kWh) - SE | ecoinvent 3.6 | 4,02   | g CO <sub>2</sub> -eq/kWh |

### Dangerous substances

The product contains no substances given by the REACH Candidate list.

### Indoor environment

## Additional Environmental Information

| Additional environmental impact indicators required in NPCR Part A for construction products |                        |          |          |          |          |          |           |
|----------------------------------------------------------------------------------------------|------------------------|----------|----------|----------|----------|----------|-----------|
| Indicator                                                                                    | Unit                   | A1-A3    | A4       | A5       | B2       | B3       |           |
| GWPIOBC                                                                                      | kg CO <sub>2</sub> -eq | 1,97E+01 | 2,40E-01 | 0,00E+00 | 4,20E+00 | 1,09E-01 |           |
| Indicator                                                                                    | Unit                   | B4       | C1       | C2       | C3       | C4       | D         |
| GWPIOBC                                                                                      | kg CO <sub>2</sub> -eq | 0        | 0        | 1,21E-01 | 6,44E+00 | 3,30E-02 | -2,22E+00 |

GWP-IOBC: Global warming potential calculated according to the principle of instantaneous oxidation. In order to increase the transparency of biogenic carbon contribution to climate impact, the indicator GWP-IOBC is required as it declares climate impacts calculated according to the principle of instantaneous oxidation. GWP-IOBC is also referred to as GWP-GHG in context to Swedish public procurement legislation.

### Variants and Options

| Key environmental indicators (A1-A3) for variants of this EPD                                   |             |                                   |                               |                                  |
|-------------------------------------------------------------------------------------------------|-------------|-----------------------------------|-------------------------------|----------------------------------|
| Variants                                                                                        | Weight (kg) | GWPTotal (kg CO <sub>2</sub> -eq) | Total energy consumption (MJ) | Amount of recycled materials (%) |
| Noor Sledgebase 6060 - Plastic shell - No packaging                                             | 6,57        | 17,57                             | 315,81                        | 11,08                            |
| Noor Sledgebase 6065 - Wood shell - No packaging                                                | 6,46        | 8,55                              | 226,10                        | 11,27                            |
| Noor Sledgebase 6060S - Plastic shell w/ upholstered seat (Cura/Gabriel) - No packaging         | 7,47        | 20,16                             | 350,53                        | 19,20                            |
| Noor Sledgebase 6060SB - Plastic shell w/ upholstered seat & back (Cura/Gabriel) - No packaging | 8,39        | 22,75                             | 384,81                        | 26,22                            |
| Noor Sledgebase 6060F - Plastic shell w/ full upholstery (Cura/Gabriel) - No packaging          | 7,14        | 20,60                             | 353,45                        | 13,49                            |
| Noor Sledgebase 6065S - Wood shell w/ upholstered seat (Cura/Gabriel) - No packaging            | 7,33        | 11,05                             | 258,89                        | 19,57                            |
| Noor Sledgebase 6065SB - Wood shell w/ upholstered seat & back (Cura/Gabriel) - No packaging    | 8,25        | 13,65                             | 293,17                        | 26,67                            |

| Key environmental indicators (A1-A3) for options for this EPD |             |                                   |                               |                                  |
|---------------------------------------------------------------|-------------|-----------------------------------|-------------------------------|----------------------------------|
| Options                                                       | Weight (kg) | GWPTotal (kg CO <sub>2</sub> -eq) | Total energy consumption (MJ) | Amount of recycled materials (%) |
| Noor Armrests                                                 | 1,93        | 4,93                              | 58,67                         | 14,53                            |
| Noor Row connection device                                    | 0,37        | 1,17                              | 3,51                          | 18,01                            |
| Chair Trolley                                                 | 6,87        | 25,58                             | 311,52                        | 0,00                             |
| Packaging (Large box, fully assembled)                        | 0,80        | -0,52                             | 22,59                         | 37,59                            |

### Key Environmental Indicators

| Indicator                    | Unit                   | A1-A3  | A4   | A1-C4  | A1-D   |
|------------------------------|------------------------|--------|------|--------|--------|
| GWPTotal                     | kg CO <sub>2</sub> -eq | 17,04  | 0,24 | 29,53  | 27,92  |
| Total energy consumption     | MJ                     | 338,39 | 3,95 | 435,20 | 386,35 |
| Amount of recycled materials | %                      | 13,96  |      |        |        |

## Bibliography

ISO 14025:2010 Environmental labels and declarations - Type III environmental declarations - Principles and procedures.  
 ISO 14044:2006 Environmental management - Life cycle assessment - Requirements and guidelines.  
 EN 15804:2012+A2:2019 Environmental product declaration - Core rules for the product category of construction products.  
 ISO 21930:2017 Sustainability in buildings and civil engineering works - Core rules for environmental product declarations of construction products.  
 ecoinvent v3, Allocation, cut-off by classification, Swiss Centre of Life Cycle Inventories.  
 Iversen et al., (2021) eEPD v2021.09 Background information for EPD generator tool system verification, LCA.no Report number: 07.21  
 Ruud et al., (2023) EPD generator for NPCR026 Part B for Furniture - Background information for EPD generator application and LCA data, LCA.no report number 01.23  
 NPCR Part A: Construction products and services. Ver. 2.0. March 2021, EPD-Norge.  
 NPCR 026 Part B for Furniture. Ver. 2.0 March 2022, EPD-Norge.

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