

Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

HÅG Creed



HÅG

Flokk

Owner of the declaration:

Flokk AS

Product:

HÅG Creed

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-5476-4796-EN

Registration number:

NEPD-5476-4796-EN

Issue date: 01.12.2023

Valid to: 01.12.2028

EPD Software:

LCA.no EPD generator ID: 96116

The Norwegian EPD Foundation

General information

Product

HÅG Creed

Program operator:

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

Declaration number:

NEPD-5476-4796-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 HÅG Creed

Declared unit (cradle to gate) with option:

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

Functional unit:

1 pcs HÅG Creed 6004 (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

Manufacturer:

Flokk AS
Drammensveien 145,
0277 Oslo, Norway

Place of production:

Flokk - Røros
Sundveien
N-7374 Røros, Norway

Management system:

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

Organisation no:

No 928 902 749

Issue date:

01.12.2023

Valid to:

01.12.2028

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:

The HÅG Creed blends inspiration from two groundbreaking chairs, the HÅG H04 and HÅG H05, both crafted by the legendary designer Peter Opsvik. This chair is powered by the signature HÅG inBalance® movement mechanism, which seamlessly adapts to your every posture shift, no matter how subtle. Its innovative "4-in-1" adjustment wheel simplifies personalization, enabling you to effortlessly modify seat depth, backrest height, and tilt-resistance in a single, fluid motion. The HÅG Creed also features redesigned HÅG SwingBack™ armrests, offering a sleeker, square design while maintaining smooth transitions between positions.

Product specification

The model studied in this declaration is the HÅG Creed 6004, 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 (%)
Adhesive	0,03	0,18	0,00	0,00
Metal - Aluminium	2,70	19,77	2,40	89,13
Metal - Steel	6,07	44,51	0,74	12,22
Others	0,00	0,04	0,00	1,24
Plastic - Nylon (PA)	0,59	4,33	0,01	2,25
Plastic - Polyamide	0,06	0,45	0,00	0,00
Plastic - Polyethylene terephthalate (PET)	0,01	0,04	0,00	0,00
Plastic - Polyoxymethylene (POM)	0,15	1,13	0,00	0,00
Plastic - Polypropylene (PP)	2,22	16,29	2,05	92,13
Plastic - Polyurethane (PUR)	1,23	9,03	0,00	0,00
Powder coating	0,08	0,58	0,00	0,00
Printed paper	0,02	0,11	0,01	34,31
Reinforcement	0,01	0,05	0,00	0,00
Rubber, synthetic	0,19	1,36	0,00	0,00
Textile - Felt	0,01	0,09	0,01	100,00
Textile - Polyester (PE)	0,28	2,04	0,27	97,85
Total	13,64		5,50	

Packaging	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Packaging - Cardboard	0,86	36,54	0,00	0,00
Packaging - Paper	0,01	0,59	0,00	34,31
Packaging - Plastic	0,10	4,39	0,00	0,00
Recycled cardboard	1,38	58,47	1,38	100,00
Total incl. packaging	16,00		6,88	

Technical data:

Total weight: 13,64 kg (packaging excluded)

Total weight: 16,00 kg (packaging included)

Market:

Worldwide

Reference service life, product

15 years

Reference service life, building

LCA: Calculation rules

Declared unit:

1 pcs HÅG Creed

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:

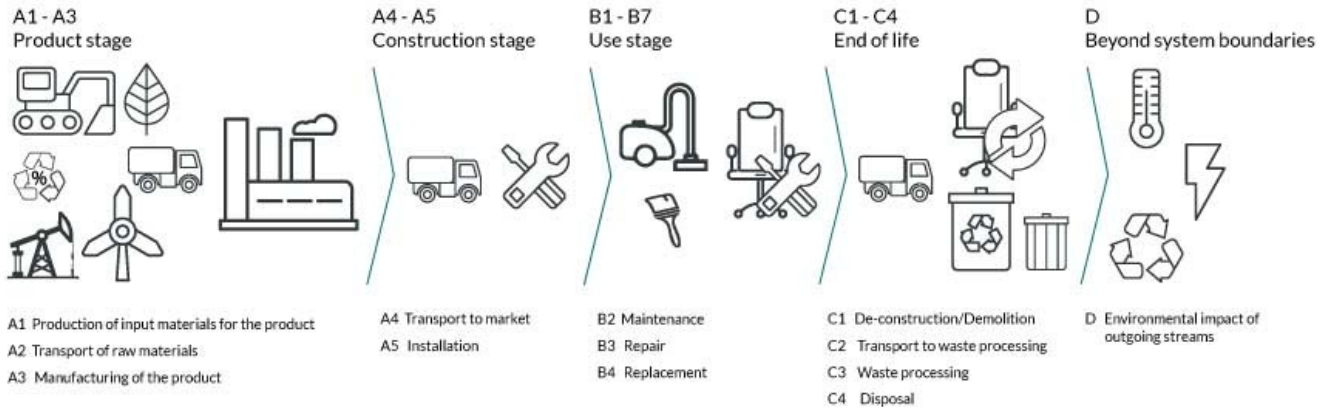
Specific data for the product composition are provided by the manufacturer. They represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on registered EPDs according to EN 15804, Ostfold Research databases, ecoinvent and other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

Materials	Source	Data quality	Year
Adhesive	ecoinvent 3.6	Database	2019
Metal - Aluminium	ecoinvent 3.6	Database	2019
Metal - Steel	ecoinvent 3.6	Database	2019
Others	ecoinvent 3.6	Database	2019
Packaging - Paper	ecoinvent 3.6	Database	2019
Packaging - Plastic	ecoinvent 3.6	Database	2019
Plastic - Nylon (PA)	ecoinvent 3.6	Database	2019
Plastic - Polyethylene terephthalate (PET)	ecoinvent 3.6	Database	2019
Plastic - Polyoxymethylene (POM)	ecoinvent 3.6	Database	2019
Plastic - Polypropylene (PP)	ecoinvent 3.6	Database	2019
Plastic - Polyurethane (PUR)	ecoinvent 3.6	Database	2019
Powder coating	Ecoinvent 3.6	Database	2019
Printed paper	ecoinvent 3.6	Database	2019
Reinforcement	ecoinvent 3.6	Database	2019
Rubber, synthetic	ecoinvent 3.6	Database	2019
Textile - Polyester (PE)	ecoinvent 3.6	Database	2019
Packaging - Cardboard	Modified ecoinvent 3.6	Database	2019
Plastic - Nylon (PA)	Modified ecoinvent 3.6	Database	2019
Plastic - Polyamide	Modified ecoinvent 3.6	Database	2019
Plastic - Polypropylene (PP)	Modified ecoinvent 3.6	Database	2019
Recycled cardboard	Modified ecoinvent 3.6	Database	2019
Textile - Felt	Modified ecoinvent 3.6	Database	2019
Textile - Polyester (PE)	Modified ecoinvent 3.6	Database	2019
Metal - Steel	SSAB	EPD (EN15804A1) + company dataset (EN15804A2)	2020

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 %	1000	0,023	l/tkm	23,00
Assembly (A5)					
	Unit	Value			
Waste, packaging, cardboard, 100 % recycled, to average treatment (kg)	kg	1,38			
Waste, packaging, corrugated board box, 0 % recycled, to average treatment (kg)	kg	0,86			
Waste, packaging, paper printed, to average treatment (kg)	kg	0,01			
Waste, packaging, plastic film (LDPE), to average treatment - A5 (kg)	kg	0,10			
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 Graphical paper, incineration with fly ash extraction (kg)	kg	0,02			
Waste treatment per kg Non-hazardous waste, incineration with fly ash extraction - C3 (kg)	kg	0,53			
Waste treatment per kg Plastics, Mixture, municipal incineration with fly ash extraction (kg)	kg	0,18			
Waste treatment per kg Polyethylene terephthalate, PET, incineration with fly ash extraction - C3 (kg)	kg	0,01			
Waste treatment per kg Polyoxymethylene (POM), incineration with fly ash extraction (kg) - CH - C3	kg	0,15			
Waste treatment per kg Polypropylene (PP), incineration with fly ash extraction - C3 (kg)	kg	2,22			
Waste treatment per kg Polyurethane (PU), incineration (kg)	kg	1,23			
Waste treatment per kg Rubber, municipal incineration with fly ash extraction (kg)	kg	0,19			
Waste treatment per kg Scrap aluminium, incineration with fly ash extraction (kg)	kg	2,70			
Waste treatment per kg Scrap steel, incineration with fly ash extraction (kg)	kg	6,07			
Waste treatment per kg Textile, incineration with fly ash extraction (kg)	kg	0,35			
Waste, materials to recycling (kg)	kg	2,34			

Disposal (C4)	Unit	Value			
Landfilling of ashes and residues from incineration of Scrap aluminium (kg)	kg	2,42			
Landfilling of ashes and residues from incineration of Scrap steel (kg)	kg	4,01			
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	0,12			
Landfilling of ashes from incineration of Plastics, Mixture, municipal incineration with fly ash extraction, process per kg ashes and residues - C4 (kg)	kg	0,01			
Landfilling of ashes from incineration of Polyethylene terephthalate, PET, process per kg ashes and residues - C4 (kg)	kg	0,00			
Landfilling of ashes from incineration of Polyoxymethylene (POM), process per kg ashes and residues (kg) - CH - C4	kg	0,00			
Landfilling of ashes from incineration of Polypropylene, PP, process per kg ashes and residues - C4 (kg)	kg	0,07			
Landfilling of ashes from incineration of Polyurethane (PU), process per kg ashes and residues - C4 (kg)	kg	0,05			
Landfilling of ashes from incineration of Rubber, process per kg ashes and residues - C4 (kg)	kg	0,01			
Landfilling of ashes from incineration of Textile, soiled, process per kg ashes and residues (kg)	kg	0,02			

Benefits and loads beyond the system boundaries (D)	Unit	Value			
Substitution of electricity, in Norway (MJ)	MJ	6,68			
Substitution of primary aluminium with net scrap (kg)	kg	0,03			
Substitution of primary steel with net scrap (kg)	kg	1,81			
Substitution of thermal energy, district heating, in Norway (MJ)	MJ	101,13			

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 ₂ -eq	4,31E+01	1,39E+00	3,87E+00	4,16E+00	8,01E-02	
GWP-fossil	kg CO ₂ -eq	4,66E+01	1,39E+00	4,46E-02	4,12E+00	7,47E-02	
GWP-biogenic	kg CO ₂ -eq	-3,56E+00	5,97E-04	3,82E+00	2,72E-02	1,36E-03	
GWP-luluc	kg CO ₂ -eq	5,07E-02	4,25E-04	1,27E-05	1,26E-02	4,09E-03	
ODP	kg CFC11 -eq	2,19E-06	3,36E-07	8,18E-09	3,67E-07	8,08E-09	
AP	mol H+ -eq	2,12E-01	4,49E-03	1,83E-04	2,39E-02	3,44E-04	
EP-FreshWater	kg P -eq	1,87E-03	1,11E-05	3,16E-07	3,28E-04	4,94E-06	
EP-Marine	kg N -eq	4,48E-02	9,83E-04	6,63E-05	3,79E-03	5,44E-05	
EP-Terrestrial	mol N -eq	4,37E-01	1,10E-02	6,54E-04	4,43E-02	7,31E-04	
POCP	kg NMVOC -eq	1,42E-01	4,30E-03	1,89E-04	1,38E-02	1,71E-04	
ADP-minerals&metals ¹	kg Sb -eq	1,04E-02	2,48E-05	9,30E-07	1,14E-04	1,16E-06	
ADP-fossil ¹	MJ	6,42E+02	2,26E+01	5,43E-01	7,15E+01	2,02E+00	
WDP ¹	m ³	3,67E+03	1,74E+01	7,65E-01	1,46E+03	1,56E+02	

Indicator	Unit	B4	C1	C2	C3	C4	D
GWP-total	kg CO ₂ -eq	0	0	2,62E-01	1,21E+01	7,83E-02	-2,88E+00
GWP-fossil	kg CO ₂ -eq	0	0	2,61E-01	1,16E+01	7,82E-02	-2,85E+00
GWP-biogenic	kg CO ₂ -eq	0	0	1,08E-04	5,43E-01	5,92E-05	-3,55E-03
GWP-luluc	kg CO ₂ -eq	0	0	9,30E-05	6,34E-05	2,27E-05	-2,62E-02
ODP	kg CFC11 -eq	0	0	5,92E-08	3,61E-08	2,30E-08	-4,27E-02
AP	mol H+ -eq	0	0	7,51E-04	4,51E-03	5,31E-04	-1,66E-02
EP-FreshWater	kg P -eq	0	0	2,09E-06	3,84E-06	8,02E-07	-1,85E-04
EP-Marine	kg N -eq	0	0	1,49E-04	2,34E-03	1,89E-04	-3,86E-03
EP-Terrestrial	mol N -eq	0	0	1,66E-03	2,32E-02	2,09E-03	-4,05E-02
POCP	kg NMVOC -eq	0	0	6,37E-04	5,61E-03	6,00E-04	-1,55E-02
ADP-minerals&metals ¹	kg Sb -eq	0	0	7,22E-06	1,53E-06	1,28E-06	-3,98E-05
ADP-fossil ¹	MJ	0	0	3,95E+00	2,58E+00	1,71E+00	-2,86E+01
WDP ¹	m ³	0	0	3,82E+00	3,73E+00	3,84E+00	-1,56E+02

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*10⁻³ = 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	2,70E-06	1,28E-07	2,73E-09	1,99E-07	1,83E-09	
IRP ²	kgBq U235 -eq	1,63E+00	9,89E-02	2,33E-03	5,42E-01	4,60E-02	
ETP-fw ¹	CTUe	1,18E+03	1,66E+01	7,12E-01	7,79E+01	2,53E+00	
HTP-c ¹	CTUh	6,71E-08	0,00E+00	2,00E-11	1,12E-08	5,90E-11	
HTP-nc ¹	CTUh	7,41E-07	1,60E-08	8,84E-10	2,49E-07	1,55E-09	
SQP ¹	dimensionless	3,86E+02	2,59E+01	4,01E-01	2,14E+01	1,52E+00	

Indicator	Unit	B4	C1	C2	C3	C4	D
PM	Disease incidence	0	0	1,60E-08	2,97E-08	9,60E-09	-4,77E-07
IRP ²	kgBq U235 -eq	0	0	1,73E-02	5,14E-03	6,88E-03	-6,14E-02
ETP-fw ¹	CTUe	0	0	2,93E+00	3,08E+01	1,08E+00	-1,61E+02
HTP-c ¹	CTUh	0	0	0,00E+00	8,21E-10	3,70E-11	-1,11E-08
HTP-nc ¹	CTUh	0	0	3,20E-09	2,10E-08	1,12E-09	1,56E-07
SQP ¹	dimensionless	0	0	2,76E+00	3,70E-01	3,73E+00	-5,73E+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*10⁻³ = 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	1,44E+02	2,85E-01	9,24E-03	1,22E+01	1,98E+00	
	PERM	MJ	2,54E+01	0,00E+00	-2,20E+01	0,00E+00	0,00E+00	
	PERT	MJ	1,75E+02	2,85E-01	-2,20E+01	1,22E+01	1,98E+00	
	PENRE	MJ	4,50E+02	2,26E+01	5,44E-01	7,16E+01	2,05E+00	
	PENRM	MJ	1,50E+02	0,00E+00	-4,40E+00	0,00E+00	0,00E+00	
	PENRT	MJ	6,91E+02	2,26E+01	-3,85E+00	7,16E+01	2,05E+00	
	SM	kg	6,88E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	
	RSF	MJ	8,28E-01	9,96E-03	3,01E-04	7,76E-01	2,00E-02	
	NRSF	MJ	1,68E-01	3,34E-02	1,21E-03	7,36E-01	0,00E+00	
	FW	m ³	1,21E+00	2,58E-03	2,58E-04	1,18E+01	9,03E-03	

Indicator		Unit	B4	C1	C2	C3	C4	D
	PERE	MJ	0	0	5,66E-02	9,78E-02	3,39E-02	-5,44E+01
	PERM	MJ	0	0	0,00E+00	-2,12E-01	0,00E+00	0,00E+00
	PERT	MJ	0	0	5,66E-02	-1,14E-01	3,39E-02	-5,44E+01
	PENRE	MJ	0	0	3,95E+00	2,64E+00	1,71E+00	-2,86E+01
	PENRM	MJ	0	0	0,00E+00	-1,45E+02	0,00E+00	0,00E+00
	PENRT	MJ	0	0	3,95E+00	-1,43E+02	1,71E+00	-2,86E+01
	SM	kg	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00
	RSF	MJ	0	0	2,02E-03	2,32E-03	8,92E-04	6,23E-02
	NRSF	MJ	0	0	7,24E-03	0,00E+00	4,74E-02	-9,76E-01
	FW	m ³	0	0	4,23E-04	7,99E-03	1,54E-03	-7,34E-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*10⁻³ = 0,009"

*INA Indicator Not Assessed

End of life - Waste								
Indicator		Unit	A1-A3	A4	A5	B2	B3	
	HWD	kg	5,40E-01	1,24E-03	0,00E+00	1,32E-02	1,89E-04	
	NHWD	kg	9,88E+00	1,97E+00	2,36E+00	8,51E-01	1,25E-02	
	RWD	kg	3,04E-03	1,55E-04	0,00E+00	4,33E-04	2,11E-05	
Indicator		Unit	B4	C1	C2	C3	C4	D
	HWD	kg	0	0	2,04E-04	0,00E+00	6,62E+00	-9,60E-03
	NHWD	kg	0	0	1,92E-01	5,25E-01	1,32E-01	-1,09E+00
	RWD	kg	0	0	2,69E-05	0,00E+00	1,06E-05	-5,25E-05

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

*Reading example: 9,0 E-03 = $9,0 \cdot 10^{-3}$ = 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	3,00E+00	0,00E+00	2,15E+00	0,00E+00	0,00E+00	
	MER	kg	1,13E-05	0,00E+00	9,87E-04	0,00E+00	0,00E+00	
	EEE	MJ	1,79E-01	0,00E+00	1,29E-01	0,00E+00	0,00E+00	
	EET	MJ	2,71E+00	0,00E+00	1,95E+00	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	2,34E+00	0,00E+00	0,00E+00
	MER	kg	0	0	0,00E+00	1,36E+01	0,00E+00	0,00E+00
	EEE	MJ	0	0	0,00E+00	6,56E+00	0,00E+00	0,00E+00
	EET	MJ	0	0	0,00E+00	9,92E+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 = $9,0 \cdot 10^{-3}$ = 0,009"

*INA Indicator Not Assessed

Biogenic Carbon Content		
Indicator	Unit	At the factory gate
Biogenic carbon content in product	kg C	7,08E-03
Biogenic carbon content in accompanying packaging	kg C	1,04E+00

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO₂

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, Norway, high voltage, hydro power (kWh)	ecoinvent 3.6	6,29	g CO ₂ -eq/kWh

Dangerous substances

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

Indoor environment

Additional Environmental Information

Key Environmental Indicators

Key environmental indicators	Unit	A1-A3	A4	A1-C4	A1-D
GWPTotal	kg CO ₂ -eq	43,09	1,39	65,06	62,18
Total energy consumption	MJ	594,95	22,97	716,42	632,56
Amount of recycled materials	%	43,00			

Additional environmental impact indicators required in NPCR Part A for construction products

Indicator	Unit	A1-A3	A4	A5	B2	B3
GWPIOBC	kg CO ₂ -eq	3,72E+01	1,39E+00	2,21E-02	4,20E+00	1,09E-01

Indicator	Unit	B4	C1	C2	C3	C4	D
GWPIOBC	kg CO ₂ -eq	0	0	2,62E-01	1,16E+01	8,13E-02	-3,84E+00

GWPTotal: 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 ₂ -eq)	Total energy consumption (MJ)	Amount of recycled materials (%)
HÅG Creed 6002 - Upholstered seat/low back (Cura/Gabriel) - No packaging	13,46	44,45	552,20	39,77
HÅG Creed 6003 - Upholstered seat/medium back (Cura/Gabriel) - No packaging	13,09	40,89	487,14	41,39
HÅG Creed 6004 - Upholstered seat/medium back (Cura/Gabriel) - No packaging	13,62	44,27	531,58	40,37
HÅG Creed 6005 - Upholstered seat/high back (Cura/Gabriel) - No packaging	13,29	41,46	494,11	42,10
HÅG Creed 6006 - Upholstered seat/high back (Cura/Gabriel) - No packaging	13,92	45,71	549,56	40,61
HÅG Creed 6056 Comfort - Upholstered seat/high back (Cura/Gabriel) - No packaging	14,11	46,70	564,36	40,35

Key environmental indicators (A1-A3) for options for this EPD

Options	Weight (kg)	GWPTotal (kg CO ₂ -eq)	Total energy consumption (MJ)	Amount of recycled materials (%)
HÅG Creed Headrest - Upholstered (Cura/Gabriel)	2,60	7,92	112,59	25,36
HÅG Footring	1,69	2,63	30,57	91,97
HÅG Creed Armrests without Swingback function	3,09	23,79	231,95	18,97
HÅG Creed Armrests with Swingback function	2,88	21,84	245,61	47,43
HÅG Creed Armrests 3D without Swingback function	4,63	16,22	176,78	45,37
HÅG Creed Armrests 3D with Swingback function	4,43	14,26	190,43	65,12
Packaging 1 (Small box, not assembled - used in declared unit)	2,38	-1,18	63,37	58,08
Packaging 2 (large box, fully assembled)	4,54	-2,51	117,06	66,39

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<p>Global Program Operator</p>	<p>Program operator and publisher The Norwegian EPD Foundation Post Box 5250 Majorstuen, 0303 Oslo, Norway</p>	<p>Phone: +47 23 08 80 00 e-mail: post@epd-norge.no web: www.epd-norge.no</p>
	<p>Owner of the declaration: Flokk AS Drammensveien 145,, 0277 Oslo</p>	<p>Phone: 0047 98 25 68 30 e-mail: atle.messel@flokke.com web: https://www.flokke.com</p>
	<p>Author of the Life Cycle Assessment LCA.no AS Dokka 6B, 1671</p>	<p>Phone: +47 916 50 916 e-mail: post@lca.no web: www.lca.no</p>
	<p>Developer of EPD generator LCA.no AS Dokka 6B,1671 Kråkerøy</p>	<p>Phone: +47 916 50 916 e-mail: post@lca.no web: www.lca.no</p>
	<p>ECO Platform ECO Portal</p>	<p>web: www.eco-platform.org web: ECO Portal</p>