

## ENVIRONMENTAL PRODUCT DECLARATION

in accordance with ISO 14025, ISO 21930 and EN 15804

Owner of the declaration:	Flokk Holding AS - HÅG
Program operator:	The Norwegian EPD Foundation
Publisher:	The Norwegian EPD Foundation
Declaration number:	NEPD-2290-1043-EN
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Valid to:	07.07.2025

### HÅG Capisco 8106

Flokk Holding AS - HÅG



[www.epd-norge.no](http://www.epd-norge.no)



## General information

### Product:

HÅG Capisco 8106

### Program operator:

The Norwegian EPD Foundation  
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### Declaration number:

NEPD-2290-1043-EN

### ECO Platform reference number:

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

CEN Standard EN 15804:2012+A1:2013 serves as core PCR  
NPCR 026:2018 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 Capisco 8106

### Declared unit with option:

A1,A2,A3,A4

### Functional unit:

### Verification:

Independent verification of data, other environmental information and the declaration according to ISO 14025:2010, § 8.1.3 and § 8.1.4

Third party verifier:

Sian

Seniorforsker Erik Svanes

(Independent verifier approved by EPD Norway)

### Owner of the declaration:

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

### Manufacturer:

Flokk Holding AS - HÅG

### Place of production:

Flokk Holding AS, Sundveien, N-7374, Rørøs

### Management system:

ISO 14001, Certificate No. 1897 ISO 9001, Certificate No. 1896  
ISO 50001, Certificate No. 1907 From the accredited unit: Kiwa  
Teknologisk Institutt Sertifisering AS

### Organisation no:

No 925 902 749

### Issue date:

07.07.2020

### Valid to:

### Year of study:

2020

### Comparability:

EPDs from programmes other than the Norwegian EPD  
Foundation may not be comparable

### Author of the Life Cycle Assessment:

The declaration is developed using eEPD v4.0 from LCA.no  
Approval:  
Company specific data are:

Collected/registered by: Laura Fouilland

Internal verification by: Patrycja Stasiak

### Approved:

Sign

Håkon Hauan  
Managing Director of EPD-Norway

Key environmental indicators	Unit	Cradle to gate A1 - A3
Global warming	kg CO2 eqv	47,82
Total energy use	MJ	791,64
Amount of recycled materials	%	55,78

## Product

### Market:

Worldwide

### Product description:

The HÅG Capisco 8106 is the classic bestseller model. The saddle seat can be adjusted between low and high working positions, all the way up to a standing position, enabling you to be more dynamic in your movements while still sitting in a balanced position. We recommend the optional 265 mm lift if you want to work with a desk in a high position.

### Product specification

HÅG in Balance® (balanced, flowing tilt function). Adjustable tilt tension backwards. Seat height, seat depth and back height adjustment. Lockable seat. Suitable for all working surfaces with table height of 72 cm and higher.

Five star base in aluminium (Ø730 mm) with curved/arched footplates, black, silver or white, optionally in polished aluminium.

### Technical data:

Total weight: 12,1kg (packaging excluded)  
 Seat width: 470 mm  
 Backrest height: 460 mm  
 Seat height (with 265mm gaslift): 555-810mm  
 Footbase diameter: 730 mm

### Reference service life, product

15 years

### Reference service life, building

Materials	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Metal - Aluminium	2,99	24,67	2,69	89,97
Metal - Steel	4,38	36,15	1,11	25,26
Textile - Polyester (PE)	0,36	2,95	0,36	100,00
Plastic - Polyurethane (PUR)	1,26	10,40	0,00	0,00
Plastic - Polypropylene (PP)	2,64	21,77	2,27	86,21
Plastic - Polyoxymethylene (POM)	0,15	1,22	0,00	0,00
Rubber, synthetic	0,04	0,31	0,00	0,00
Plastic - Nylon (PA)	0,06	0,48	0,00	0,00
Plastic - Polyamide with glass fibre (PAGF30)	0,25	2,06	0,00	0,00

Packaging	kg		Recycled share in material (kg)	Recycled share in material (%)
Packaging - Cardboard	0,58		0,44	76,30
Packaging - Cardboard	0,67		0,51	76,30
Packaging - Cardboard	0,77		0,59	76,30
Packaging - Cardboard	1,30		0,99	76,30
Packaging - Plastic	0,01		0,00	0,00
Packaging - Plastic	0,02		0,00	0,00
Packaging - Plastic	0,04		0,00	0,00

## LCA: Calculation rules

### Declared unit:

1 Pcs HÅG Capisco 8106

### 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.

### Data quality:

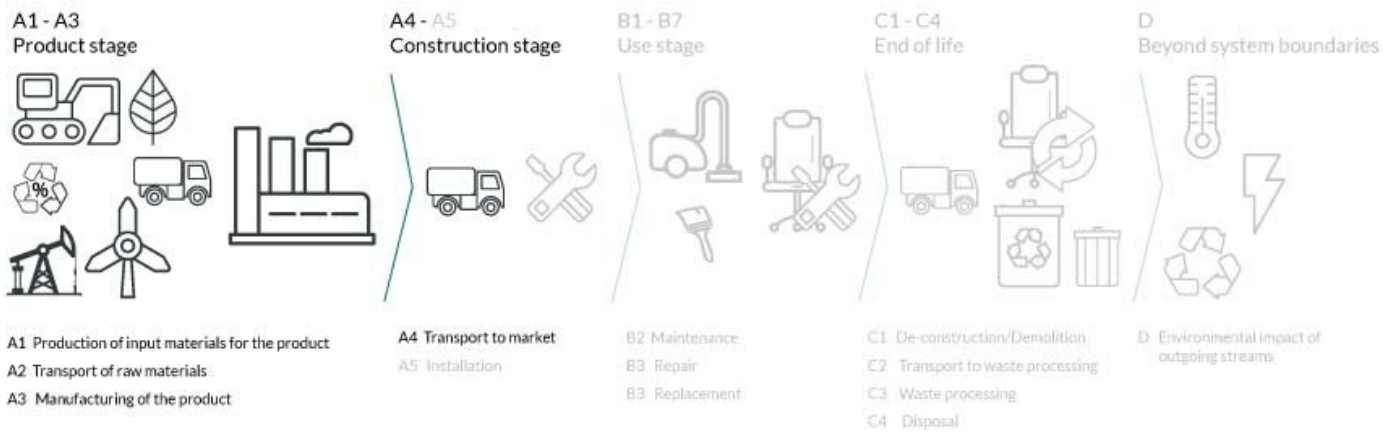
Specific data for the product composition are provided by the manufacturer. They represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on registered EPDs according to EN 15804, Ostfold Research databases, ecoinvent and other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

### Allocation:

The allocation is made in accordance with the provisions of EN 15804. 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.

**System boundary:**

Life cycle stages included are described in figure and through the corresponding letter and number designations in the declaration.



**Additional technical information:**

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

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

Transportation to an average customer in Copenhagen is 1000km (A4: average European lorry > 32 tonnes)

**Transport from production place to user (A4)**

Type	Capacity utilisation (incl. return) %	Type of vehicle	Distance km	Fuel/Energy consumption	Unit	Value (l/t)
Truck	38,8 %	Truck, 16-32 tonnes, EURO 5	15506	0,044606	l/tkm	691,66
Railway					l/tkm	
Boat					l/tkm	
Other Transportation					l/tkm	

**Assembly (A5)**

.	Unit	Value
Auxiliary	kg	
Water consumption	m <sup>3</sup>	
Electricity consumption	kWh	
Other energy carriers	MJ	
Material loss	kg	
Output materials for waste treatment	kg	
Dust in the air	kg	
VOC emissions	kg	

**Use (B1)**

.	Unit	Value

**Maintenance (B2)/Repair (B3)**

.	Unit	Value
Maintenance cycle*		
Auxiliary		
Other resources		
Water consumption	m <sup>3</sup>	
Electricity consumption	kWh	
Other energy carriers	MJ	
Material loss	kg	
VOC emissions	kg	

**Replacement (B4)/Refurbishment (B5)**

.	Unit	Value
Replacement cycle*		
Electricity consumption	kWh	
Replacement of worn parts		

\* Described above if relevant

**Operational energy (B6) and water consumption (B7)**

.	Unit	Value
Water consumption	m <sup>3</sup>	
Electricity consumption	kWh	
Other energy carriers	MJ	
Power output of equipment	kW	

**End of Life (C1, C2)**

.	Unit	Value
Hazardous waste disposed	kg	
Collected as mixed construction waste	kg	
Reuse	kg	
Recycling		
Energy recovery		
To landfill	kg	

Scenarios after A1-A4 are not included

**Transport to waste processing (C2)**

Type	Capacity utilisation (incl. return) %	Type of vehicle	Distance km	Fuel/Energy consumption	Unit	Value (l/t)
Truck					l/tkm	
Railway					l/tkm	
Boat					l/tkm	
Other Transportation					l/tkm	

## LCA: Results

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

Product stage				Construction installation stage	User 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	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	

### Environmental impact

Parameter	Unit	A1	A2	A3	A4
GWP	kg CO <sub>2</sub> -eq	4,66E+01	1,04E+00	1,61E-01	3,91E+01
ODP	kg CFC11 -eq	1,76E-06	1,15E-07	4,04E-09	7,21E-06
POCP	kg C <sub>2</sub> H <sub>4</sub> -eq	1,62E-02	1,67E-04	7,86E-05	6,38E-03
AP	kg SO <sub>2</sub> -eq	2,04E-01	3,40E-03	1,73E-03	1,25E-01
EP	kg PO <sub>4</sub> <sup>3-</sup> -eq	3,20E-02	5,74E-04	7,38E-04	2,07E-02
ADPM	kg Sb -eq	1,14E-03	1,32E-06	1,38E-05	1,19E-04
ADPE	MJ	5,15E+02	1,62E+01	1,04E+00	5,89E+02

GWP Global warming potential; ODP Depletion potential of the stratospheric ozone layer; POCP Formation potential of tropospheric photochemical oxidants; AP Acidification potential of land and water; EP Eutrophication potential; ADPM Abiotic depletion potential for non fossil resources; ADPE Abiotic depletion potential for fossil resources

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

\*INA Indicator Not Assessed

## Resource use

Parameter	Unit	A1	A2	A3	A4
RPEE	MJ	8,37E+01	2,93E-01	6,87E+01	8,59E+00
RPEM	MJ	1,92E+01	0,00E+00	0,00E+00	0,00E+00
TPE	MJ	9,00E+01	2,93E-01	6,87E+01	8,59E+00
NRPE	MJ	6,21E+02	1,67E+01	1,24E+00	6,03E+02
NRPM	MJ	5,30E+01	0,00E+00	0,00E+00	0,00E+00
TRPE	MJ	6,74E+02	1,67E+01	1,24E+00	6,03E+02
SM	kg	8,96E+00	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00
W	m <sup>3</sup>	4,91E-01	3,93E-03	1,01E-03	1,13E-01

RPEE Renewable primary energy resources used as energy carrier; RPEM Renewable primary energy resources used as raw materials; TPE Total use of renewable primary energy resources; NRPE Non renewable primary energy resources used as energy carrier; NRPM Non renewable primary energy resources used as materials; TRPE 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; W Use of net fresh water

Reading example: 9,0 E-03 =  $9,0 \cdot 10^{-3} = 0,009$

\*INA Indicator Not Assessed

## End of life - Waste

Parameter	Unit	A1	A2	A3	A4
HW	kg	2,28E-02	7,11E-06	2,89E-05	3,52E-04
NHW	kg	2,77E+01	1,50E+00	2,56E-01	3,18E+01
RW	kg	INA*	INA*	INA*	INA*

HW Hazardous waste disposed; NHW Non hazardous waste disposed; RW 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

Parameter	Unit	A1	A2	A3	A4
CR	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MR	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MER	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EEE	MJ	INA*	INA*	INA*	INA*
ETE	MJ	INA*	INA*	INA*	INA*

CR Components for reuse; MR Materials for recycling; MER Materials for energy recovery; EEE Exported electric energy; ETE Exported thermal energy

Reading example: 9,0 E-03 =  $9,0 \cdot 10^{-3} = 0,009$

\*INA Indicator Not Assessed

## Additional Norwegian 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).

### Dangerous substances

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

### Indoor environment

Greenguard certified

## Additional environmental information

### 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+A1:2013 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., (2018) eEPD v3.0 - Background information for EPD generator system. LCA.no report number 04.18

Vold et al., (2019) EPD generator for Norsk Industri, Background information for industry application and LCA data, LCA.no report number 06.19.

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