

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).

Electricity mix	Data source	Amount	Unit
Energy, electricity, hydro, Nordic average:1 kWh	Østfoldforskning	10,19	g CO2-ekv/kWh

Dangerous substances

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

Indoor environment

GREENGUARD Gold certified

Additional environmental information

Key environmental indicators for variants for this EPD: Cradle to Gate analyse from A1 to A3

Variant number	Global warming (kg CO2)	Total energy use (MJ)	Share of recycled material in product(%)
HÅG Tion 2100 - Plastic chair - No packaging	35,74	539,73	73,11
HÅG Tion 2140 - Plastic chair, upholstery seat (Cura/Gabriel) - No packaging	36,40	552,60	72,33
HÅG Tion 2160 - Plastic chair, upholstery seat/back (Cura/Gabriel) - No packaging	36,97	562,01	73,24
HÅG Tion 2200 - Wooden chair - No packaging	32,72	465,64	53,22
Håg Tion 2240 - Wooden back, upholstery plastic seat (Cura/Gabriel) - No packaging	34,96	495,66	64,10

Key environmental indicators for options for this EPD: Cradle to Gate analyse from A1 to A3

Option number	Global warming (kg CO2)	Total energy use (MJ)	Share of recycled material in product(%)
HÅG Tion Footring	9,80	118,44	75,01
HÅG Tion Armrests - Painted	7,11	89,55	89,26
HÅG Tion Armrests - Polished	6,14	71,64	96,22
HÅG Tion - Packaging 1 (Small box, flat packed - used in declared unit)	5,00	60,42	51,41
HÅG Tion - Packaging 2 (Large box, fully assembled)	7,06	84,86	66,95

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.

NPCR Part A: Construction products and services. Ver. 1.0. April 2017, EPD-Norge.

NPCR 026 Part B for Furniture. Ver. 2.0 October 2018, EPD-Norge.

<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@flokk.com web: https://www.flokk.com</p>
	<p>Author of the Life Cycle Assessment 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>Developer of EPD generator LCA.no AS Dokka 1C 1671 Kråkerøy</p>	<p>Phone: +47 916 50 916 e-mail: post@lca.no web: www.lca.no</p>