

Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

Gry Park Bench with armrests



nola[®]

EPD-Global

Owner of the declaration:

Nola Industrier Aktiebolag

Product:

Gry Park Bench with armrests

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:

EPD-Global

Declaration number:

NEPD-14101-14400

Issue date:

17.11.2025

Valid to:

17.11.2030

EPD software:

LCAno EPD generator ID: 1119930

General information

Product

Gry Park Bench with armrests

Program operator:

EPD-Global
Post Box 5250 Majorstuen, 0303 Oslo, Norway
Phone: +47 977 22 020
web: www.epd-global.com

Declaration number:

NEPD-14101-14400

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-Global shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

Declared unit:

1 pcs Gry Park Bench with armrests

Declared unit (cradle to gate) with option:

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

Functional unit:

1 Gry Park Bench in powder coated steel and Linax-impregnated pine with armrests, as delivered to the final customer.

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-Global'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-Global, and iii) the process is reviewed annually by an independent third party verifier. See Appendix G of EPD-Global'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-Global'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:

Nola Industrier Aktiebolag
Contact person: Anders Åkesson
Phone: 08-702 19 60
e-mail: anders.akesson@nola.se

Manufacturer:

Nola Industrier Aktiebolag

Place of production:

Nola Industrier Aktiebolag
Blekingegatan 26
118 56 Stockholm, Sweden

Management system:

Organisation no:

556207-4442

Issue date:

17.11.2025

Valid to:

17.11.2030

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-Global.

Developer of EPD: Joachim Henriksson

Reviewer of company-specific input data and EPD: Anders Åkesson

Approved:



Håkon Hauan, CEO EPD-Global

Product

Product description:

Gry sofa is part of a furniture group from Nola that was designed with a focus on comfort, functionality and durability. These characteristics come together in a clear expression of simplicity, enabling Gry to voice contemporary elegance. Each product in the Gry series is crafted with restrained proportions and authentic materials, their outlines softened by rounded steel parts forming each frame.

Product specification

U14-11 Gry park bench with armrests

Length: 155 cm / 167 cm

Height: 76 cm

Sitting height: 45 cm

C-C stand: 89 cm

Width of armrests: 6 cm per side

Depth: 55 cm

Materials	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Metal - Stainless steel	0.30	0.632	0.0655	21.83
Metal - Steel	33.49	70.55	4.77	14.23
Powder coating	0.30	0.632	0.00	0.00
Wood	12.97	27.32	0.00	0.00
Zinc	0.41	0.8637	0.00	0.00
Total	47.47	100.00	4.83	

Packaging	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Packaging - Pallet	21.70	99.13	0.00	0.00
Packaging - Plastic	0.19	0.87	0.00	0.00
Total incl. packaging	69.36	100.00	4.83	

Technical data:

Market:

Global.

Reference service life, product

15 years.

Reference service life, building

LCA: Calculation rules

Declared unit:

1 pcs Gry Park Bench with armrests

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.

Energy flows and materials representing less than 1% of the total are excluded. Cut-off does not apply for REACH materials.

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. Allocation as per EN 15804.

Impacts from primary production of virgin material are assigned to respective component production and includes transportation.

Impacts from repair and replacement are not included in the use stage, as the materials used in the product are designed to last longer than the stated lifespan

Impacts from primary production of recycled materials are assigned to respective component production, and includes recycling and transportation processes.

Emissions from disposal of the product are included and allocated per material. Energy recovery from incineration of relevant materials is included and allocated on a national level.

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.

Data has been gathered from sub suppliers and public, current, published EPDs or ecoinvent 3.6 database.

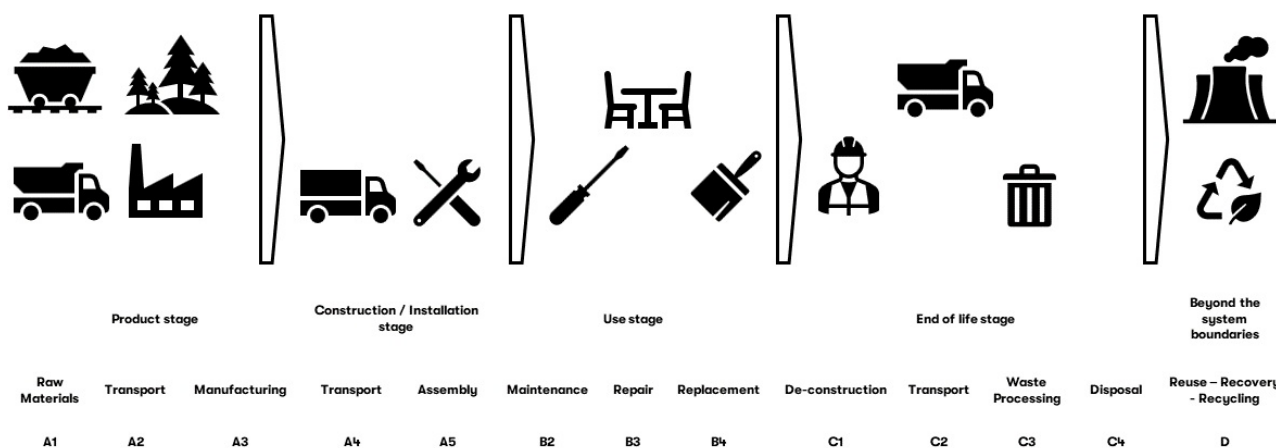
Materials	Source	Data quality	Year
Metal - Stainless steel	ecoinvent 3.6	Database	2019
Metal - Steel	S-P-02242	EPD	2020
Metal - Steel	SSAB	Specific	2020
Packaging - Pallet	ecoinvent 3.6	Database	2019
Packaging - Plastic	ecoinvent 3.6	Database	2019
Powder coating	ecoinvent 3.6	Database	2019
Wood	NEPD-4333-3564-EN	EPD	2021
Zinc	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:

Sweden.



Additional technical information:

<https://nola.se/en/products/gry-sofa/>

LCA: Scenarios and additional technical information

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














Production scenario assumes production in Sweden at sub-suppliers with transport of materials and components between certain production steps.














Usage scenario assumes no repair or replacement and minimal maintenance during the 15 year lifespan of the product, as materials and surface treatments are selected to require servicing during lifetime of product. The installation location is assumed to be within Sweden.

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 5 (km)	53.3 %	400.00	0.023	l/tkm	9.20
Assembly (A5)	Unit	Value			
Waste, packaging, plastic film (LDPE), to average treatment - A5 (kg)	kg	0.19			
Waste, packaging, Pallet, EUR wooden pallet, single use, average treatment (kg)	kg	21.70			
Transport to waste processing (C2)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Truck, 16-32 tonnes, EURO 5 (km)	36.7 %	50.00	0.044	l/tkm	2.20
Waste processing (C3)	Unit	Value			
Waste, materials to recycling (kg)	kg	11.46			
Waste treatment per kg Scrap steel, incineration with fly ash extraction (kg)	kg	33.79			
Waste treatment per kg Non-hazardous waste, incineration with fly ash extraction - C3 (kg)	kg	0.71			
Waste treatment per kg Wood, incineration with fly ash extraction (kg)	kg	12.97			
Disposal (C4)	Unit	Value			
Landfilling of ashes and residues from incineration of Scrap steel (kg)	kg	22.33			
Landfilling of ashes from incineration of Non-hazardous waste, process per kg ashes and residues - C4 (kg)	kg	0.1685			
Landfilling of ashes from incineration of Wood, process per kg ashes and residues (kg)	kg	0.1492			
Benefits and loads beyond the system boundaries (D)	Unit	Value			
Substitution of primary steel with net scrap (kg)	kg	6.37			
Substitution of electricity (MJ)	MJ	9.44			
Substitution of thermal energy, district heating (MJ)	MJ	142.84			

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	6.24E+01	2.52E+00	3.35E+01	0	0
	GWP-fossil	kg CO ₂ -eq	1.19E+02	2.52E+00	5.99E-01	0	0
	GWP-biogenic	kg CO ₂ -eq	-5.63E+01	1.03E-03	3.29E+01	0	0
	GWP-luluc	kg CO ₂ -eq	1.59E-01	7.36E-04	1.51E-04	0	0
	ODP	kg CFC11 -eq	2.99E-06	5.83E-07	9.42E-08	0	0
	AP	mol H ⁺ -eq	3.58E-01	1.06E-02	4.71E-03	0	0
	EP-FreshWater	kg P -eq	1.21E-03	1.92E-05	7.03E-06	0	0
	EP-Marine	kg N -eq	8.94E-02	3.19E-03	2.03E-03	0	0
	EP-Terrestrial	mol N -eq	9.57E-01	3.52E-02	2.16E-02	0	0
	POCP	kg NMVOC -eq	2.75E-01	1.13E-02	5.57E-03	0	0
	ADP-minerals&metals ¹	kg Sb-eq	3.21E-02	4.31E-05	9.55E-06	0	0
	ADP-fossil ¹	MJ	1.57E+03	3.92E+01	6.92E+00	0	0
	WDP ¹	m ³	1.72E+04	3.01E+01	1.08E+01	0	0

Indicator		Unit	B4	C1	C2	C3	C4	D
	GWP-total	kg CO ₂ -eq	0	0	5.79E-01	2.14E+01	2.46E-01	-7.87E+00
	GWP-fossil	kg CO ₂ -eq	0	0	5.78E-01	1.98E+00	2.46E-01	-7.83E+00
	GWP-biogenic	kg CO ₂ -eq	0	0	2.36E-04	1.94E+01	1.85E-04	-5.57E-03
	GWP-luluc	kg CO ₂ -eq	0	0	2.02E-04	9.80E-05	7.52E-05	-3.17E-02
	ODP	kg CFC11 -eq	0	0	1.32E-07	3.94E-08	7.74E-08	-6.03E-02
	AP	mol H ⁺ -eq	0	0	2.36E-03	3.43E-03	1.76E-03	-4.16E-02
	EP-FreshWater	kg P -eq	0	0	4.54E-06	9.06E-06	2.43E-06	-5.05E-04
	EP-Marine	kg N -eq	0	0	7.01E-04	1.50E-03	6.29E-04	-9.44E-03
	EP-Terrestrial	mol N -eq	0	0	7.75E-03	1.60E-02	6.96E-03	-9.78E-02
	POCP	kg NMVOC -eq	0	0	2.37E-03	4.21E-03	2.00E-03	-4.18E-02
	ADP-minerals&metals ¹	kg Sb-eq	0	0	1.57E-05	2.15E-06	4.32E-06	-1.29E-04
	ADP-fossil ¹	MJ	0	0	8.72E+00	3.17E+00	5.71E+00	-7.08E+01
	WDP ¹	m ³	0	0	8.32E+00	3.95E+00	1.08E+01	2.16E+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"

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	3.03E-06	2.22E-07	5.77E-08	0	0
 IRP ²	kgBq U235 -eq	8.40E+00	1.71E-01	2.52E-02	0	0
 ETP-fw ¹	CTUe	7.21E+02	2.87E+01	7.87E+00	0	0
 HTP-c ¹	CTUh	6.92E-08	0.00E+00	8.70E-10	0	0
 HTP-nc ¹	CTUh	1.07E-06	2.77E-08	4.18E-08	0	0
 SQP ¹	dimensionless	5.64E+03	4.50E+01	3.96E+00	0	0











Indicator	Unit	B4	C1	C2	C3	C4	D
 PM	Disease incidence	0	0	4.16E-08	8.09E-08	3.24E-08	-9.95E-07
 IRP ²	kgBq U235 -eq	0	0	3.81E-02	8.30E-03	2.28E-02	-5.05E-02
 ETP-fw ¹	CTUe	0	0	6.42E+00	1.98E+01	3.31E+00	-4.55E+02
 HTP-c ¹	CTUh	0	0	0.00E+00	2.18E-09	1.17E-10	-3.49E-08
 HTP-nc ¹	CTUh	0	0	6.94E-09	3.31E-08	3.07E-09	6.71E-07
 SQP ¹	dimensionless	0	0	6.01E+00	6.51E-01	1.24E+01	-8.36E+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"




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	4.36E+02	4.94E-01	1.43E-01	0	0
	PERM	MJ	5.53E+02	0.00E+00	-3.01E+02	0	0
	PERT	MJ	9.90E+02	4.94E-01	-3.01E+02	0	0
	PENRE	MJ	1.57E+03	3.92E+01	6.92E+00	0	0
	PENRM	MJ	1.64E+01	0.00E+00	-8.07E+00	0	0
	PENRT	MJ	1.59E+03	3.92E+01	-1.14E+00	0	0
	SM	kg	5.78E+00	0.00E+00	0.00E+00	0	0
	RSF	MJ	7.27E-01	1.73E-02	4.15E-03	0	0
	NRSF	MJ	1.15E+00	5.79E-02	4.69E-02	0	0
	FW	m ³	1.76E+00	4.47E-03	5.03E-03	0	0

Indicator		Unit	B4	C1	C2	C3	C4	D
	PERE	MJ	0	0	1.23E-01	1.50E-01	1.04E-01	-7.79E+01
	PERM	MJ	0	0	0.00E+00	-2.10E+02	0.00E+00	0.00E+00
	PERT	MJ	0	0	1.23E-01	-2.10E+02	1.04E-01	-7.79E+01
	PENRE	MJ	0	0	8.72E+00	3.24E+00	5.72E+00	-7.08E+01
	PENRM	MJ	0	0	0.00E+00	-6.95E+00	0.00E+00	0.00E+00
	PENRT	MJ	0	0	8.72E+00	-3.70E+00	5.72E+00	-7.08E+01
	SM	kg	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	RSF	MJ	0	0	4.40E-03	3.22E-03	2.76E-03	2.40E-01
	NRSF	MJ	0	0	1.57E-02	0.00E+00	1.73E-01	3.03E+00
	FW	m ³	0	0	9.18E-04	4.82E-03	5.15E-03	-1.03E-01

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"






End of life - Waste							
Indicator		Unit	A1-A3	A4	A5	B2	B3
	HWD	kg	1.23E+00	2.15E-03	0.00E+00	0	0
	NHWD	kg	1.81E+01	3.41E+00	2.19E+01	0	0
	RWD	kg	2.44E-02	2.68E-04	0.00E+00	0	0

Indicator		Unit	B4	C1	C2	C3	C4	D
	HWD	kg	0	0	4.45E-04	0.00E+00	2.25E+01	-3.70E-02
	NHWD	kg	0	0	4.17E-01	7.10E-01	1.88E-01	-3.14E+00
	RWD	kg	0	0	5.94E-05	0.00E+00	3.52E-05	-4.27E-05

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

"Reading example: 9.0 E-03 = 9.0*10⁻³ = 0.009"

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	0
	MFR	kg	7.64E+00	0.00E+00	9.75E-02	0	0
	MER	kg	1.62E+00	0.00E+00	2.15E+01	0	0
	EEE	MJ	1.12E+00	0.00E+00	1.50E+01	0	0
	EET	MJ	1.70E+01	0.00E+00	2.27E+02	0	0

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	1.15E+01	0.00E+00	0.00E+00
	MER	kg	0	0	0.00E+00	4.75E+01	0.00E+00	0.00E+00
	EEE	MJ	0	0	0.00E+00	9.96E+00	0.00E+00	0.00E+00
	EET	MJ	0	0	0.00E+00	1.51E+02	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*10⁻³ = 0.009"

Biogenic Carbon Content		
Indicator	Unit	At the factory gate
Biogenic carbon content in product	kg C	6.35E+00
Biogenic carbon content in accompanying packaging	kg C	8.97E+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	Source	Amount	Unit
Electricity, Sweden (kWh)	ecoinvent 3.6	54.94	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 performance indicators	Unit	Product stage	Construction stage		Use stage			End-of-life				Net benefits and loads from reuse, recovery, and/or recycling
		A1-A3	A4	A5	B2	B3	B4	C1	C2	C3	C4	D
GWPtotal	kg CO ₂ -eq	62.39	2.52	33.50	0.00	0.00	0.00	0.00	0.58	21.40	0.25	-7.87
Total energy consumption	MJ	2009.05	39.79	7.12	0.00	0.00	0.00	0.00	8.86	3.40	6.00	-145.44
Share of recycled materials	%	6.96										

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	1.19E+02	2.52E+00	5.99E-01	0	0

Indicator	Unit	B4	C1	C2	C3	C4	D
GWPIOBC	kg CO ₂ -eq	0	0	5.78E-01	1.98E+00	2.48E-01	-7.86E+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.

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