

Novelis

Environmental Product Declaration

According to ISO14025+EN15804+A2

This declaration is for:
HRC73A®

Provided by:
Novelis, Deutschland GmbH



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DETAILED PRODUCT DESCRIPTION

HRC73A® (AlMg1) aluminium pre-anodized sheets and coils are used for applications of all kinds in indoor and outdoor building. The sheets are rolled to the required thickness from an aluminium alloy and thermally treated according to customer requirements. The products are anodized sheets and coils for architectural, technical and industrial cladding of 1, 2 and 3 mm of Aluminium sheet thickness and 10, 15 and 20 µm of anodic layer thickness.

This EPD is for an average product calculated from 12 variations of HRC73A®. The environmental impact results shown on this EPD correspond only to the calculated average product and not the individual 12 variations. The table below details the characteristics of the average product.

Average aluminium sheet characteristics	Value	Unit
Thickness	1,93	mm
Width	1250	mm
Length	2000	mm
Density	2710	kg/m ³
Anodic layer thickness	12,52	µm

Production process

HRC73A® is produced using an aluminium coil that goes through a further anodization process which increases the resistance to atmospheric corrosion. Other auxiliary materials are used, as for example some acids (sulphuric acid) or alkalis (sodium hydroxide).

The production phase includes mainly the following steps:

1. Aluminium production and rolling
2. Continuous coil anodizing

Upstream aluminium processes include primary production, recycling, and remelting.

At the end-of-life stage, aluminium sheets should be dismantled and collected for treatment, as aluminium is highly recyclable. After collection, the sheets are processed through shredding and sorting to enable efficient recycling.

Component (> 1%)	(kg / %)
Primary Aluminium	9,6
Secondary Aluminium	90,4

SCOPE AND TYPE

The system boundaries of the EPD are defined as Cradle-to-Gate with the addition of modules C and D. All major steps per declared module, from the extraction of natural resources to the final disposal of the product, are included in the scope of the study. The life cycle stages covered are A1-A3, C1-C4 and D. The study was completed using the LCA software Sphera LCA for Experts (GaBi) 10,7.0.183 and background processes are taken from Ecoinvent v.3.10 (2024). The results are calculated using the characterisation method EN15804+A2 (2020).

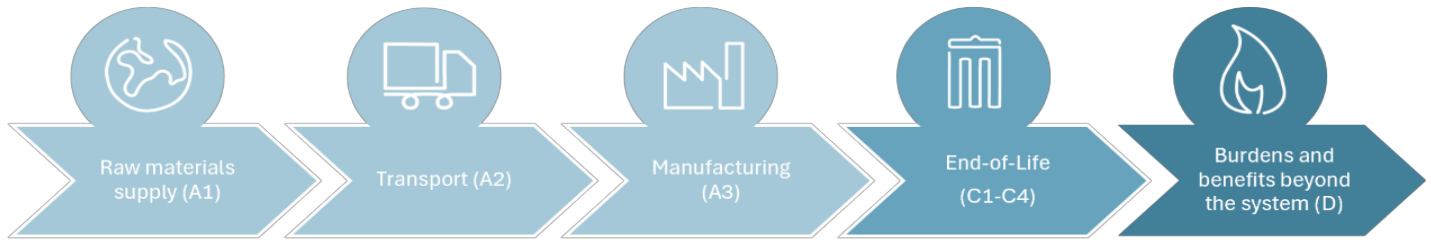
This EPD is an average calculation of 12 variations of the HRC73A® aluminium sheet and represents an average product manufactured across several locations in Germany. These are Nachterstedt, Norf, and Göttingen. The sheet is also anodized at a site in Milan, Italy. The product is sold globally and end-of-life is modelled within the European and Global context. Electricity was modelled using a market-based approach.



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PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USE STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES
Raw material supply	Transport	Manufacturing	Transport gate to site	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	X	X	X	X	X

X = Modules Assessed
 ND = Not Declared



REPRESENTATIVENESS

This EPD represents a single average product calculated from 12 variations of HRC73A®. The weighted average product was calculated based on sales volumes of the 12 variants over the year 2023. HRC73A® is manufactured across several sites in Germany and one site in Italy.

Full details of the characteristic of each of the variations included within the average calculation are described below in 'Calculation Rules'. The sales volumes used for the calculation are confidential.



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ENVIRONMENTAL IMPACT per functional unit or declared unit (core indicators A2)

Unit		A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-total	kg CO2 eq.	3,61E+00	1,51E-01	7,98E+00	1,17E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,62E-02	1,52E+00	6,73E-03	-1,61E+00
GWP-fossil	kg CO2 eq.	3,59E+00	1,51E-01	7,88E+00	1,16E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,61E-02	1,51E+00	6,68E-03	-1,56E+00
GWP-biogenic	kg CO2 eq.	9,29E-03	5,10E-04	9,68E-02	1,07E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,90E-05	7,53E-03	4,42E-05	-5,55E-03
GWP-luluc	kg CO2 eq.	4,34E-03	1,14E-04	9,10E-03	1,36E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,92E-05	1,26E-03	8,29E-06	-3,96E-02
ODP	kg CFC11 eq.	1,53E-09	2,58E-09	2,02E-06	2,02E-06	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,13E-09	1,56E-08	1,21E-10	-2,65E-08
AP	mol H+ eq.	1,48E-02	1,10E-03	2,73E-02	4,32E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,81E-04	6,04E-03	3,86E-05	-1,00E-02
EP-fresh water	kg P eq.	1,70E-04	2,59E-05	3,28E-03	3,48E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,82E-06	3,64E-04	1,06E-06	-8,69E-04
EP-marine	kg N eq.	2,37E-03	3,60E-04	7,66E-03	1,04E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,20E-05	1,12E-03	2,10E-05	-1,35E-03
EP-terrestrial	mol N eq.	2,53E-02	3,90E-03	6,53E-02	9,45E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,70E-04	1,22E-02	1,46E-04	-1,20E-02
POCP	kg NMVOC eq.	7,21E-03	1,25E-03	2,67E-02	3,52E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,95E-04	4,01E-03	4,57E-05	-5,48E-03
ADP-minerals & metals	kg Sb eq.	2,24E-06	3,98E-07	2,80E-05	3,07E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,51E-07	3,35E-05	1,73E-08	1,72E-05
ADP-fossil	MJ, net calorific value	5,20E+01	2,23E+00	1,25E+02	1,79E+02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,17E-01	1,20E+01	1,18E-01	-2,64E+01
WDP	m3 world eq. Deprived	6,66E-02	2,67E-02	1,62E+01	1,63E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,23E-03	2,58E-01	-4,29E-02	-2,87E+00

- GWP-total = Global Warming Potential total
- GWP-fossil = Global Warming Potential fossil fuels
- GWP-biogenic = Global Warming Potential biogenictotal
- GWP-luluc = Global Warming Potential land use and land use change
- ODP = Depletion potential of the stratospheric ozone layer
- AP = Acidification Potential, Accumulated Exceedence
- 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 Exceedence
- POCP = Formation potential of tropospheric ozone photochemical oxidants
- ADP-minerals & metals = Abiotic Depletion Potential for non-fossil resources [1]
- ADP-fossil = Abiotic Depletion for fossil resources potential [1]
- WDP = Water (user) deprivation potential, deprivation-weighted water consumption [1]

Disclaimer [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 experience with the indicator.



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ENVIRONMENTAL IMPACT per functional unit or declared unit (additional indicators A2)

Unit		A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PM	Disease incidence	2,21E-07	1,07E-08	2,83E-07	5,15E-07	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,31E-09	8,10E-08	6,63E-10	-1,11E-07
IRP	kBq U235 eq.	1,10E+00	1,16E-02	6,28E-01	1,74E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,89E-04	8,40E-02	2,48E-04	-4,44E-01
ETP-fw	CTUe	1,31E+01	7,55E-01	4,49E+01	5,87E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,93E-01	8,48E+00	4,61E+01	1,20E-01
HTP-c	CTUh	2,53E-09	1,38E-09	3,14E-08	3,53E-08	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,48E-10	8,51E-09	3,50E-11	-8,17E-09
HTP-nc	CTUh	1,93E-08	1,30E-09	6,28E-08	8,34E-08	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,88E-10	3,20E-08	1,06E-09	-1,73E-08
SQP	-	2,66E+00	1,67E+00	6,21E+01	6,65E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,18E-01	1,03E+01	1,73E-01	-8,37E-01

- PM = Potential incidence of disease due to PM emissions
- IRP = Potential Human exposure efficiency relative to U235 [1]
- ETP-fw = Potential Comparative Toxic Unit for ecosystems [2]
- HTP-c = Potential Comparative Toxic Unit for humans, cancer [2]
- HTP-nc = Potential Comparative Toxic Unit for humans, non-cancer [2]
- SQP = Potential soil quality index [2]

Disclaimer [1]:

- 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.

Disclaimer [2]:

- 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 experience with the indicator.



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OUTPUT FLOWS AND WASTE CATEGORIES per functional unit or declared unit (A1 and A2)

	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
HWD	kg	2,18E-01	4,22E-03	8,26E-01	1,05E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,02E-04	8,06E-02	6,69E-04	-3,97E-01
NHWD	kg	0,00E+00	0,00E+00	2,90E-02	2,90E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,62E-01
RWD	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
CRU	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	kg	0,00E+00	0,00E+00	6,03E-01	6,03E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,97E+00	0,00E+00
MER	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EEE	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
ETE	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

- HWD = Hazardous Waste Disposed
- NHWD = Non Hazardous Waste Disposed
- RWD = Radioactive Waste Disposed
- CRU = Components for reuse
- MFR = Materials for recycling
- MER = Materials for energy recovery
- EEE = Exported Electrical Energy
- ETE = Exported Thermal Energy



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RESOURCE USE per functional unit or declared unit (A1 and A2)

Unit		A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PERE	MJ	2,31E+01	1,18E-01	1,68E+01	4,00E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,30E-02	1,36E+00	3,38E-03	-1,03E+01
PERM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	2,31E+01	1,18E-01	1,68E+01	4,00E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,30E-02	1,36E+00	3,38E-03	-1,03E+01
PENRE	MJ	5,20E+01	2,23E+00	1,25E+02	1,79E+02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,17E-01	1,20E+01	1,18E-01	-2,64E+01
PENRM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	5,20E+01	2,23E+00	1,25E+02	1,79E+02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,17E-01	1,20E+01	1,18E-01	-2,64E+01
SM	kg	4,73E+00	0,00E+00	0,00E+00	4,73E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NSRF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m3	1,55E-03	6,22E-04	3,77E-01	3,79E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,22E-04	6,00E-03	-9,98E-04	-6,69E-02

- PERE = Use of renewable primary energy excluding renewable primary energy 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 resources excluding non-renewable 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
- NSRF = Use of non-renewable secondary fuels
- FW = Use of net fresh water

BIOGENIC CARBON CONTENT per functional unit or declared unit (A1 and A2)

Unit		A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
BCCpr	kg C	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
BCCpa	kg C	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

- BCCpr = Biogenic carbon content in product
- BCCpa = Biogenic carbon content in packaging



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CALCULATION RULES

Data quality and data collection period

Data quality requirements follow EN15804+A2:2019 Annex E, Table E.2. Used datasets are complete according to the system boundary, and are as current as possible. Foreground data is for the reference period 2023. Processes used in the background modelling are taken from Ecoinvent 3.10 (cut off by classification), a widely used LCA database and are consistent with the foreground modelling in system limits and allocation procedures. Additional datasets are taken from European Aluminium, the primary association representing the European aluminium industry. The technological and geographical coverage of the chosen datasets reflects the physical reality as far as possible, taking into account the technology mix, location, and representativeness of technologies, input materials, and input energies for the region. Data quality is assessed as good on average and adequate to the goal and scope of the study.

Cut-off criteria

Cut-off within the background processes (Ecoinvent v.3.10 datasets) is according to the respective methodologies (see documentation of the relevant processes (Wernet et al., 2016)). A cut-off was applied to packaging used for the transportation of the aluminium sheets between manufacturing sites. This was due to its reuse and lifetime. This cut-off is not expected to impact the results of the LCA or the conclusions drawn from the study.

Allocation procedure

Emissions and inputs to the manufacturing process is applied to the final product based on mass considering an annual production of aluminium sheets. System allocation in the background processes is according to the documentation of the relevant processes (Wernet et al., 2016) and presumed to follow the accommodated approach ("cut-off" libraries).

Variation	Thickness (mm)	Width (mm)	Average length (mm)	Density (kg/m ³)	Anodic layer thickness (µm)	Square meters produced per 1 ton of Alu (sqm)
1	1	1250	2000	2710	10	369
2	1	1250	2000	2710	15	369
3	1	1250	2000	2710	20	369
4	1,5	1250	2000	2710	10	246
5	1,5	1250	2000	2710	15	246
6	1,5	1250	2000	2710	20	246
7	2	1250	2000	2710	10	184,5
8	2	1250	2000	2710	15	184,5
9	2	1250	2000	2710	20	184,5
10	3	1250	2000	2710	10	123
11	3	1250	2000	2710	15	123
12	3	1250	2000	2710	20	123

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SCENARIOS AND ADDITIONAL TECHNICAL INFORMATION

The product stage is reported in life cycle stages A1-A3. This life cycle stage includes the extraction and processing of raw materials for the product, its transportation to the production site, and the manufacturing process. The manufacturing stage (A3) includes all processes related to manufacturing of the aluminium sheet, including energy consumption and waste treatment, for which specific data is available. Electricity consumption is modelled using primary data and datasets for the German market mix. For the manufacturing site in Italy, primary data was used to model the electricity mix. For transportation of raw materials, a default scenario was used from the Product Environmental Footprint method (PEF 3.1) (European Commission, 2021). Transportation between manufacturing sites was modelled with provided primary data.

For the end-of-life stage (C), a scenario is used which is based on Ecoinvent 3.10 datasets and default values taken from the European Aluminium General Program Instructions (2020). Transport to End-of-Life was modelled using a default scenario from the Product Environmental Footprint method (PEF 3.1) (European Commission, 2021). To calculate the benefits and loads beyond the system boundaries (module D), Formula D.6. from EN1504+A2 was used.

Transport of raw materials	Distance	Unit
Truck (>32t, EURO 5)	230	km
Train (average freight train)	280	km
Ship (barge)	360	km

End-of-Life scenario aluminium sheets	Value	Unit
Recycled	95	%
Landfilled	5	%
Distance to EOL treatment	100	km

The EPD is calculated using a weighted average of 12 product variations of HRC73A®. The table below details the results of the key environmental impact indicators for each of the 12 variations included within the average calculation and their % difference from the calculated EPD value. The difference in impact between variations ranges from -49% to +56%.

Core environmental impact indicators	1	2	3	4	5	6	7	8	9	10	11	12
Climate Change - total [kg CO2 eq.]	-42%	-36%	-31%	-21%	-15%	-10%	0%	6%	11%	42%	48%	53%
Climate Change, fossil [kg CO2 eq.]	-42%	-36%	-31%	-21%	-15%	-10%	0%	6%	11%	42%	48%	53%
Climate Change, biogenic [kg CO2 eq.]	-49%	-49%	-49%	-23%	-23%	-23%	4%	4%	3%	56%	56%	56%
Climate Change, land use and land use change [kg CO2 eq.]	-48%	-48%	-48%	-22%	-22%	-22%	4%	3%	3%	54%	54%	54%
Ozone depletion [kg CFC-11 eq.]	-48%	-47%	-46%	-22%	-22%	-21%	4%	4%	4%	54%	54%	55%
Acidification [Mole of H+ eq.]	-39%	-36%	-33%	-19%	-16%	-13%	1%	4%	7%	41%	45%	48%
Eutrophication, freshwater [kg P eq.]	-43%	-41%	-40%	-20%	-19%	-17%	3%	4%	5%	47%	49%	50%
Eutrophication, marine [kg N eq.]	-41%	-38%	-35%	-20%	-17%	-14%	2%	4%	7%	43%	46%	49%
Eutrophication, terrestrial [Mole of N eq.]	-42%	-38%	-35%	-20%	-17%	-13%	1%	5%	8%	44%	48%	51%
Photochemical ozone formation, human health [kg NMVOC eq.]	-42%	-38%	-34%	-21%	-16%	-12%	1%	5%	9%	43%	47%	51%
Resource use, mineral, and metals [kg Sb eq.]	-39%	-39%	-39%	-18%	-18%	-18%	3%	3%	3%	45%	45%	45%
Resource use, fossils [MJ]	-42%	-36%	-31%	-21%	-15%	-10%	0%	6%	11%	42%	47%	52%
Water use [m³ world equiv.]	-19%	-16%	-13%	-10%	-6%	-3%	0%	3%	6%	18%	21%	25%



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DECLARATION OF SVHC

None of the raw materials contained in the product are listed in the "Candidate List of Substances of Very High Concern for authorisation", or they do not exceed the threshold with the European Chemicals Agency.

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REMARKS

There are no further remarks.

