

# ENVIRONMENTAL PRODUCT DECLARATION

In accordance with ISO 14025 and EN 15804:2012+A2:2019 for:

*Coated Aluminium Sheet*

from

**Assan Alüminyum**



## PROGRAMME

The International EPD® System, [www.environdec.com](http://www.environdec.com)  
EPD® Turkey, [www.epdturkey.org](http://www.epdturkey.org)

## PROGRAMME OPERATOR

EPD® International AB & EPD Turkey

## EPD REGISTRATION NUMBER

EPD-IES-0017783

## VALID UNTIL

2029-11-30

## PUBLICATION DATE

2024-11-30

## REVISION DATE

2025-02-26

# Programme Information

## Programme Information

**Programme:** The International EPD® System

**Address:** EPD® International AB Box 21060 SE-100 31 Stockholm, Sweden

**Website:** [www.environdec.com](http://www.environdec.com)

**E-mail:** [info@environdec.com](mailto:info@environdec.com)

## Information about verification and reference PCR:

*CEN standard EN 15804 serves as the Core Product Category Rules (PCR)*

### Product category rules (PCR)

*PCR 2019:14 Construction products (EN 15804:A2) Version 1.3.4*

### PCR review was conducted by

*The Technical Committee of the International EPD® System. See [www.environdec.com/TC](http://www.environdec.com/TC) for a list of members. Review chair: Claudia A. Peña, University of Concepción, Chile. The review panel may be contacted via the Secretariat [www.environdec.com/contact](http://www.environdec.com/contact).*

Independent verification of the declaration and data, according to ISO 14025:2006:

EPD process verification

EPD verification

### Third party verifier

SimaPro partners for India & Sri Lanka, SIPL Pvt Ltdy

### Approved by

The International EPD® System Technical Committee, supported by the Secretariat

Procedure for follow-up of data during EPD validity involves third party verifier:

Yes

No

## LCA Study & EPD Design Conducted by

Semtrio Sustainability Consulting

BUDOTEK Teknopark, No 8/27

Umraniye / Istanbul Turkey

[www.semtrio.com](http://www.semtrio.com)



### Assan Alüminyum has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but from different programmes may not be comparable.

EPDs of construction products may not be comparable if they do not comply with EN 15804.

For further information about comparability, see EN 15804 and ISO 14025.

**Disclaimer:** Additional deviations within the EPDs may exist that have not been identified by the Secretariat of the EPD International AB. The responsibility for verifying EPDs lies with independent third-party verifiers, EPD International AB is not accountable for detecting each potential deviation that passes through the EPD verification process.

# Company Information

## Owner of the EPD

### Assan Alüminyum Sanayi ve Ticaret A.Ş.

Yayla Mah. Rüya Sok.No2 Tuzla Plant-İstanbul TUZLA,  
+90 216 5811200 | info@assanaluminyum.com

Contact: Meltem HARPUTLUOĞLU

[meltem.harputluoglu@assanaluminyum.com](mailto:meltem.harputluoglu@assanaluminyum.com)

Assan Alüminyum, one of the world's leading manufacturers in the flat-rolled aluminium (FRP) industry, producing coil & sheet, foil and pre-painted aluminium products since 1988, offering its products to a variety of sectors such as packaging, distribution, construction, consumer durables, automotive and HVAC. Assan Alüminyum, a subsidiary of Kibar Holding, has an installed annual capacity of 360 thousand tons in its production facilities, with the highest continuous casting capacity in all of Europe and Americas. The company is currently one of the 2 largest aluminium foil manufacturers in Europe, with an aluminium foil production capacity of 130 thousand tons.

Assan Alüminyum Creates the Future Together with its business partners. With its core values of reliability, flexibility, innovation and sustainability, the company provides customized solutions for its customers. Assan Alüminyum's vision is based on creating long-lasting value by being more sustainable, in environmental, governance and social terms. Assan Alüminyum received the Aluminium Stewardship Initiative (ASI) Performance Standard Certificate for all of facilities. ASI framework is essential for the company to manage all of its business processes according to global sustainability standards. With the clean energy that the company produces at its Manavgat Renewable Energy Power Plant, it generates and procures I-RECs (International Renewable Energy Certificate) that allow it to fully offset its market-based Scope 2 emissions. The 100% and infinitely recyclable aluminium is recycled at its integrated recycling facility, which helps reduce the carbon footprint of the company.

Assan Alüminyum, a global pioneer in the continuous casting technology, creates value by developing innovative, tailor-made solutions for its business partners at its officially registered R&D Center.

With its global culture, 1700 dedicated employees, Assan Alüminyum exports to more than 70 countries around the world, particularly to West Europe and North America. Kibar Americas, the wholly-owned North American subsidiary of Assan Alüminyum in Chicago, aims to perform the ambitious plans for growth in North America.



## NAME AND LOCATION OF PRODUCTION SITES

### Tuzla Plant

Yayla Mahallesi Rüya Sokak No:2 34940  
Tuzla – İstanbul/Turkey

### Dilovası Plant

Dilovası Organize Sanayi Bölgesi 1. Kısım Dicle  
sok. No 40 41455 / Kocaeli/Turkey

# Product Information

Product Name:

## Coated Aluminium Sheet

Coated Rolled Aluminium Sheet products are flat rolled aluminium products that are pre-painted. The flat rolled coil & sheet production process begins with the re-melting of unwrought aluminum, aluminum scrap, and alloying elements in the melting furnaces to produce a given alloy chemical composition and casting of coils on twin roll continuous casting lines.

Cast coils are reduced in thickness in successive stages on cold rolling mills to the desired thickness, the coils are slit to the final desired width, and heat-treated in annealing furnaces as required by the metallurgical process to produce final desired mechanical properties.

Finishing operations are performed on slitting, tension levelling, cut-to-length, and packaging lines as needed. Tension levelling lines are used to flatten the material and surface cleaning. Slitting lines are used to reduce the coil width or to slit it into strips. Cut-to-length lines are used to convert coil into sheets in specific lengths.

Coated Rolled Aluminium Sheet products are flat rolled aluminium products that undergo various production processes, such as: washing, chemical coating, primer coating, top coating, online color measurement, coil slitting and packaging.

### Intended Use of Product

Coated Rolled Aluminium Sheet products are primarily used in the construction sector as well as consumer durables and automotive applications. The coating of the product allows extra layer to the aluminium coil has superior qualities, such as lightness, impermeability, high-conductivity, high corrosion resistance, easy formability and infinite recyclability, which make it the product of choice for various different applications and industries.

# Technical Specifications

Technical specification	Test Method	Unit	Value
Paint application	EN 1396	CIELAB	0-2
PMT	EN 1396	C°	216-249
Thickness	EN 13523-1	µm	2-200
Gloss	EN 13523-2	%	1-120
Pencil hardness	EN 13523-4	H-B	6H-6B
Bending	EN 13523-7	T	0-2.5
Resistance to solvents	EN 13523-11	A-R	>100
Adhesion	EN 13523-6	A-R	NA
Cupping	EN 13523-6	A-R	NA
Impact resistance	EN 13523-5	A-R	NA
Acetic acid salt spray	EN 13523-8	S	0-5S5
Humidity	EN 13523-25	S	0-5S5
Accelerated ageing	EN 13523-10	DE/%	<3
Visual colour control	EN 13523-22	A-R	NA
Viscosity	ISO 2431	Sec	40-120
Density determination	ASTM D 1475	g/cm <sup>3</sup>	NA
Solid matter determination	ISO 3251	%	NA
Boiling water resistance	EN 13523-6	A-R	NA

UN CPC code: 41534 Plates, sheets and strip, of aluminium, of a thickness exceeding 0.2 mm

# LCA Information

## Declared Unit

1 kg of Coated Aluminium Sheet ready to delivery at the factory gate.

## Reference Service Life

Not applicable.

## Time Representativeness

The production data in this LCA study represents the period of 1 January - 31 December 2023.

## Database(s) and LCA software used

SimaPro LCA v9.6.0.1 software with Ecoinvent v3.9.1

## Description of System Boundaries

Cradle to gate with options, modules C1–C4, module D and with optional modules A4–A5 (A1–A3 + C + D and A4-5).

## Data Quality and Data Collection

According to EN 15804:2012+A2:2019 specific data was used for module A3 (Processes the manufacturer has influence over) and was gathered from the Assan Alüminyum Tuzla and Dilovası Manufacturing Plant. Specific data includes actual product weights, amounts of raw materials used, product content, energy consumption, transport figures, water consumption and amounts of wastes. For A1 and A2 modules, according to EN 15804:2012+A2:2019, generic data was applied and was obtained from Ecoinvent v3.9.1

## Allocation

Mass allocation of actual data for pre-consumer and post-consumer recycled materials has been applied according to the EN15804:2012+A2:2019 standard.

## Cut-off Rules

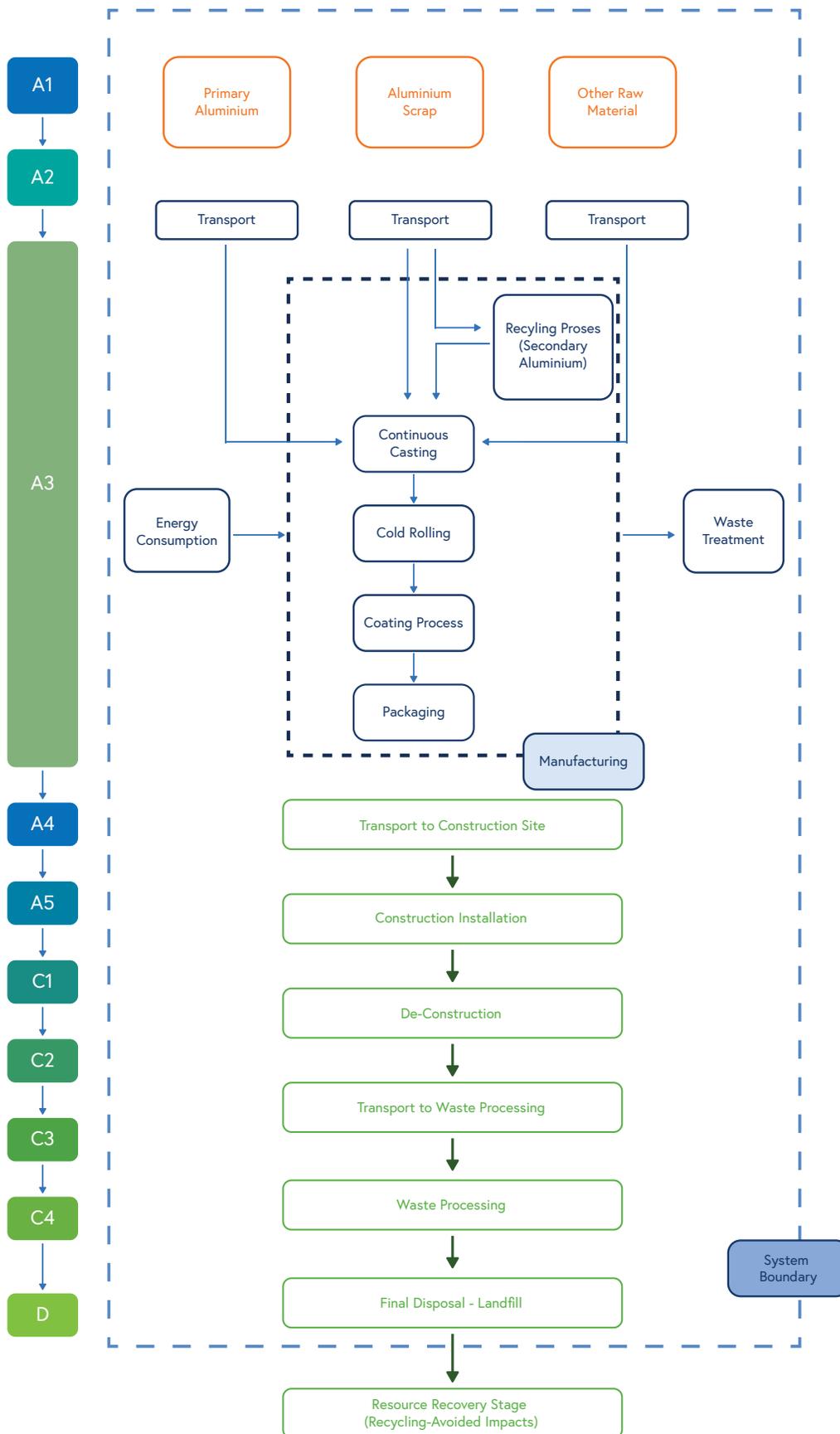
Life Cycle Inventory data for a minimum of 99 % of total inflows to the three life cycle stages have been included and a cut-off rule of 1% regarding energy, mass, and environmental relevance was applied.

## Modules declared, geographical scope, share of specific data (in GWP-GHG indicator) and data variation:

	PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USE STAGE							END OF LIFE STAGE				RESOURCE RECOVERY STAGE
	Raw material supply	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Recycling Potential
Module	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Modules declared	X	X	X	X	X	ND	ND	ND	ND	ND	ND	ND	X	X	X	X	X
Geography	GLO	GLO	TR	GLO	GLO	-	-	-	-	-	-	-	GLO	GLO	GLO	GLO	GLO
Specific data used	>99.5%		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation-products	Not Relevant		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation-sites	<10%		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

X: Declared, ND: Not declared.

# System Diagram



# Description of Declared Modules

## A1 - Raw Materials Supply

This module takes into account raw material extraction, processing and energy used in the production process.

## A2 - Transport to the Manufacturer

This module includes transportation of the raw materials from supplier to factory gate. Transportation types are considered as roadway and seaway.

## A3 - Manufacturing

This stage includes energy and water consumption during the manufacturing process. Additionally, packaging materials are covered in this module. The processing of any waste arising from this stage is also included.

Assan Alüminyum holds an International Renewable Energy Certificate (IREC), verifying that 100% of the electricity consumed at its Dilovası and Tuzla production facilities is sourced from renewable energy, specifically hydropower plants. The carbon footprint associated with 1 kWh of hydropower electricity is calculated as 0.0047428836 tCO<sub>2</sub>e.

## A1-3 - Cradle to gate – Mandatory Module

The aggregation of the modules A1, A2 and A3 is allowed by EN 15804:2012+A2:2019. This rule is applied in this EPD and denoted by A1-3. This module represents the extraction and processing of raw materials, the transport to production sites and the manufacture and packaging.

## A4 - Transport to construction site – Voluntary Optional Module

An average distance of 500 km has been assumed for the transport to construction site. Transport is calculated on the basis of a scenario with the parameters described in the table below.

Parameters A4 Module	
Transport by road*	Lorry >32 metric ton
Distance (km)	500
Database	Ecoinvent v3.9.1

## A5 - Construction installation - Voluntary Optional Module

An average building installation machine diesel and electricity consumption assumed. It is calculated on the basis of a scenario with the parameters described in the table below.

Parameters A5 Module	
Water use, m3	0
Electricity, kWh	0.013
Diesel, MJ	0.5977

# Description of Declared Modules

## C1 - De-construction

It has been assumed that during the de-construction operations the same electricity and diesel is consumed as during the Construction installation of aluminium sheet.

Data	Amount	Unit
Energy Consumption	0.5977	MJ/
Energy Consumption	597.7	MJ/ton

\*It is assumed that diesel is consumed as energy.

## C2 - Transport to Waste Processing – Mandatory Module

An average distance of 200 km has been assumed for the transport to scrap dealers. Transport is calculated on the basis of a scenario with the parameters described in the attached table.

Parameters C2 Module	
Transport by road*	Lorry >32 metric ton
Distance (km)	500
Database	Ecoinvent v3.9.1

\*Technology is Euro 6

The parameters C2 module remains consistent for Coated Aluminium Sheet.

## C3 - Waste Processing for Reuse, Recovery and/or Recycling – Mandatory Module

During the pre-recycling process, materials are separated to ensure effective recycling, resulting in negligible environmental impacts. Materials intended for reuse, however, do not undergo any processing before being used at another construction site, thus having zero environmental impact. It is assumed that the same amount of electricity and diesel is consumed during the deconstruction phase as during the installation of aluminium sheet in the construction phase.

## C4 - Final Disposal – Mandatory Module

All end-of-life products will be collected and recycled back into the production system, including the Coated Aluminium Sheet. A total of 95% of these products are recycled and reused in construction projects or material production, while the remaining 5% are sent to landfill. The recovery rates for aluminium during building dismantling are based on data from the European Aluminium Association, assuming a 95% recovery rate and 5% going to landfill.

## D - Reuse, recovery or recycling – Mandatory Module

Scrap inputs to the production stage are subtracted from scrap to be recycled at end of life in order to obtain the net scrap output from the product system. This remaining net scrap is then sent to recycling. Module D reports the environmental aspects of recycled scrap generated at the end of life minus that used at the production stage.

This LCA and the EPD only cover the Cradle to Gate A1-3, A4-5 and C1-4 and D stages because other stages are very dependent on particular scenarios and are better developed for specific building or construction works.

# Content Declaration Including Packaging

Material	Percentage, %
Aluminium, primer ingot	30-40
Post-consumer material	5-15
Pre-consumer material	50-60
Iron	<1
Manganese	<1
Others	<1
Renewable material	0
Biogenic carbon	0

Material	Percentage, %	Biogenic carbon, %
Wooden Pellet	0-5	0-5
PE film	0-5	-

# Environmental Information

## Potential Environmental Impact –

Mandatory Indicators According to EN 15804:2012+A2:2019/AC:2021

Results for 1 kg of Coated Aluminium Sheet									
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-fossil	kg CO <sub>2</sub> eq.	5.59	0.05	0.07	0.06	0.02	0.01	1.28E-03	-5.14
GWP -biogenic	kg CO <sub>2</sub> eq.	0.07	2.56E-04	3.29E-04	9.95E-05	1.02E-04	2.30E-04	2.21E-05	-0.04
GWP-luluc	kg CO <sub>2</sub> eq.	0.07	2.20E-05	8.30E-05	5.26E-06	8.80E-06	7.77E-05	1.62E-06	-0.04
GWP-total	kg CO <sub>2</sub> eq.	5.73	0.05	0.07	0.06	0.02	0.01	1.30E-03	-5.22
ODP	kg CFC 11eq.	1.84E-05	8.27E-10	9.51E-10	9.14E-10	3.31E-10	3.74E-11	2.29E-11	-3.75E-08
AP	mol H <sup>+</sup> eq.	0.04	1.32E-04	5.87E-04	5.40E-04	5.30E-05	4.70E-05	7.37E-06	-0.03
EP-freshwater	kg P eq.	2.11E-03	4.21E-06	9.03E-06	1.74E-06	1.68E-06	7.28E-06	2.02E-07	-2.00E-03
EP-marine	kg N eq.	5.67E-03	3.36E-05	2.59E-04	2.51E-04	1.34E-05	8.34E-06	3.14E-06	-4.92E-03
EP-terrestrial	mol N eq.	0.06	3.64E-04	2.82E-03	2.74E-03	1.45E-04	7.63E-05	2.78E-05	-0.05
POCP	kg NMVOC eq.	0.02	2.00E-04	8.41E-04	8.18E-04	8.01E-05	2.26E-05	8.72E-06	-0.02
ADP minerals & metals*	kg Sb eq.	2.47E-05	1.46E-07	2.38E-08	2.09E-08	5.85E-08	2.94E-09	3.29E-09	-4.76E-06
ADP-fossil*	MJ	59.9	0.78	0.86	0.78	0.31	0.08	0.02	-52.9
WDP*	m <sup>3</sup>	2.08	4.87E-03	4.86E-03	2.30E-03	1.95E-03	2.56E-03	-0.01	-2.08

### Acronyms

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

<sup>1</sup> Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.

<sup>2</sup> Disclaimer: It is essential to interpret the lifecycle impacts of the product by considering the outcomes of all relevant modules, including A1-A3 (or A1-A5 for services) and module C, as a whole. Using the results of modules A1-A3/A1-A5 independently may lead to incomplete conclusions regarding the product's environmental performance.

# Environmental Information

## Potential Environmental Impact – Additional Mandatory and Voluntary Indicators

Results according to PCR2019:14 for 1 kg of Coated Aluminium Sheet									
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-GHG <sup>1</sup>	kg CO <sub>2</sub> eq.	5.68	0.05	0.07	0.06	0.02	0.01	1.29E-03	-5.19
Results according to EN 15804+A2 for 1 kg of Coated Aluminium Sheet									
PM	[disease inc.]	4.19E-07	5.10E-09	1.56E-08	1.54E-08	2.04E-09	2.09E-10	1.35E-10	-3.79E-07
IRP	[kBq U235 eq]	0.23	6.89E-04	4.09E-04	3.50E-04	2.76E-04	5.85E-05	4.74E-05	-0.20
ETP-fw	[CTUe]	209	0.84	0.68	0.51	0.33	0.18	669	-152
HT-C	[CTUh]	2.54E-08	2.67E-10	2.42E-10	2.34E-10	1.07E-10	7.95E-12	6.58E-12	-1.40E-08
HT-nc	[CTUh]	9.94E-08	6.46E-10	4.01E-10	3.47E-10	2.59E-10	5.41E-11	1.38E-08	-7.90E-08
SQP	[pt]	14.2	0.79	0.06	0.05	0.31	0.01	0.03	-8.16
Net use of fresh water	m <sup>3</sup>	0.25	7.35E-04	8.50E-04	4.08E-04	2.94E-04	4.42E-04	5.19E-05	-0.23
Eutrophication	kg PO <sub>4</sub> --- eq	8.50E-03	2.51E-05	1.15E-04	8.99E-05	1.00E-05	2.51E-05	1.85E-06	-7.83E-03
Human toxicity	kg 1,4-DB eq	18.2	0.19	0.15	0.15	0.08	0.01	4.42E-03	-9.67
Fresh water aquatic ecotox.	kg 1,4-DB eq	8.86	0.02	0.02	0.02	0.01	0.01	1.54E-03	-6.05
Marine aquatic ecotoxicity	kg 1,4-DB eq	2.38E04	74.6	69.9	54.6	29.8	15.4	2.17	-2.11E+04
Terrestrial ecotoxicity	kg 1,4-DB eq	0.10	1.23E-03	1.01E-03	9.67E-04	4.93E-04	4.29E-05	3.19E-05	-0.05

### Acronyms

GWP-GHG = Global Warming Potential total excl. biogenic carbon following IPCC AR5 methodology; PM = Potential incidence of disease due to PM emissions; IRP = Potential Human exposure efficiency relative to U235; ETP-fw = Potential Comparative Toxic Unit for ecosystems; HT-C = Potential Comparative Toxic Unit for humans; HT-nc = Potential Comparative Toxic Unit for humans; SQP = Potential soil quality index (SQP)

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# Environmental Information

## Use of Resources

Results for 1 kg of Coated Aluminium Sheet									
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PERE	MJ	16.9	0.01	0.04	4.79E-03	4.10E-03	0.03	6.39E-04	-13.7
PERM	MJ	0	0	0	0	0	0	0	0
PERT	MJ	16.9	0.01	0.04	0.00	0.00	0.03	0.00	-13.7
PENRE	MJ	64.1	0.83	0.92	0.83	0.33	0.09	0.02	-56.5
PENRM	MJ	0	0	0	0	0	0	0	0
PENRT	MJ	64.1	0.83	0.92	0.83	0.33	0.09	0.02	-56.5
SM	kg	0.67	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0
FW	m <sup>3</sup>	0.25	7.35E-04	8.50E-04	4.08E-04	2.94E-04	4.42E-04	5.19E-05	-0.23

### Acronyms

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 re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water

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# Environmental Information

## Waste Production

Results for 1 kg of Coated Aluminium Sheet									
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
Hazardous waste disposed	kg	0	0	0	0	0	0	0	0
Non-hazardous waste disposed	kg	0	0	0	0	0	0	0.05	0
Radioactive waste disposed	kg	0	0	0	0	0	0	0	0

## Output Flows

Results for 1 kg of Coated Aluminium Sheet									
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
Components for re-use	kg	0	0	0	0	0	0	0	0
Material for recycling	kg	0	0	0	0	0	0	0	0.95
Materials for energy recovery	kg	0	0	0	0	0	0	0	0
Exported energy, electricity	MJ	0	0	0	0	0	0	0	0
Exported energy, thermal	MJ	0	0	0	0	0	0	0	0

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<sup>2</sup> Disclaimer: It is essential to interpret the lifecycle impacts of the product by considering the outcomes of all relevant modules, including A1-A3 (or A1-A5 for services) and module C, as a whole. Using the results of modules A1-A3/A1-A5 independently may lead to incomplete conclusions regarding the product's environmental performance.

# References

- ISO 14040 Environmental management - Life cycle assessment - Principles and framework
- ISO 14044 2006 Environmental management - Life cycle assessment - Requirements and guidelines
- ISO 14025 2006 Environmental labels and declarations - Type III environmental declarations - Principles and procedures
- ISO 14021 2016 Environmental labels and declarations
- ISO 14020 2000 Environmental labels and declarations - General principles
- EN 15804:2012+A2:2019 Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products
- The International EPD® System [www.environdec.com](http://www.environdec.com)
- The International EPD® System The General Programme Instructions v5.0.0  
<https://www.environdec.com/resources/documentation#generalprogrammeinstructions>
- The International EPD® System PCR 2022:08, Basic Aluminium Products and Special Alloys, version 1.0
- Ecoinvent 3.9.1 [www.ecoinvent.org](http://www.ecoinvent.org)
- SimaPro LCA Software [www.simapro.com](http://www.simapro.com)
- Assan Alüminyum [www.assanaluminyum.com/en/](http://www.assanaluminyum.com/en/)
- Aluminium Recycling in LCA European Aluminium Association, 2013
- EN 15804 reference package based on EF 3.1 [eplca.jrc.ec.europa.eu](http://eplca.jrc.ec.europa.eu)

## Contact

### Third party verifier

SimaPro partners for India & Sri Lanka, SIPL Pvt Ltdy



LCA, GHG and ESG Consultants

### Owner of Declaration

Assan Alüminyum

Yayla Mahallesi D-100 Karayolu Rüya Sokak No:2 34940 Tuzla - İstanbul

[www.assanaluminyum.com](http://www.assanaluminyum.com)



### LCA Practitioner & EPD Design

Semtrio Sustainability Consulting

BUDOTEK Teknopark, No 8/27

Umraniye / İstanbul Turkey

[www.semtrio.com](http://www.semtrio.com)

