

FALSE CEILING SYSTEMS AND EXTERNAL CLADDINGS MADE OF ALUMINIUM



BASED ON:

PCR 2019:14 version 1.11 EN 15804:2012 + A2:2019 ISO 14025

CPC CODE:

4219

CERTIFICATION N°:

S-P-04497

PROGRAMME OPERATOR:

EPD international AB

PROGRAMME:

The international EPD System www.environdec.com

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THE INTERNATIONAL EPD® SYSTEM











EPD REFERENCES									
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INDEPENDENT VERIFICATION									
This declaration has been developed refering to the International EPD System, following the General Programme Instructions v.3.01. Further information and the document itself are available at: www.environdec.com. EPD document valid within the following geographical area: Global according to	o sales market conditions								
ISO standard ISO 21930 and CEN standard EN 15804 served as core PCR. PCR 2019:14 version 1.11, 2020-09-14. PCR review was conducted by: The Technical Committee of the International EPD System. See www.environdec.com/TC for a list of members. Review chair: Claudia A. Peña, University of Conceptiòn, Chile. The review panel may be contacted via the Secretariat www.environdec.com/contact.									
Independent verification of the declaration and data, according to EN ISO 14025 : 2010									
Third party verifier: IMQ S.p.A, via Quintiliano 43, 20138 Milano, Italy	EPD process certification (internal)	EPD verification (external)							
In the process of being accredited by Accredia Procedure for follow-up during EPD validity involves third party verifier:	YES	No							
Environmental declarations published within the same product category, but from different programmes may not be comparable. In particular, EPDs of construction products may not be comparable if they do not comply with EN 15804. EPD owner has the sole ownership, liability and responsibility of the EPD.									
CONTACTS									

______ () 100% MADE IN ITALY -

To get more information about our company and this environmental declaration kindly visit our website www.metalscreen.it and contact our Sales and Environmental Dept: metalscreen@metalscreen.it, +39 059 8170611

THE COMPANY

These are not only years we are working next to you, but these are also our ages, landmarks in our history that provide reliability and our experience means high quality from raw material to finished products.

Experience, a very precious gift, skilfully handed down from generation to generation, allowed our family, made by self-made entrepreneurs to diversify the production, from glass processing to aluminum windows, from anodic oxidation to external aluminum coatings anodized, up to the metal false ceilings and aluminum claddings systems and all its components and eventually up to the next generation of smart false ceilings made of coated aluminum.

With our continuous and constant entrepreneurial presence in the market, we have always brought innovation and modern production technologies, even when aluminum ceilings were little known and little used till now that they are unquestionably a functional and irreplaceable part of modern architecture thanks also to our contribution.

Our goals are full commitment and engagement in our strategies for the future, continuous innovation, cautious investments meant to reach our targets and make our view come true and consolidate our primary position, a spotlight in the false ceilings and exterior claddings sector consolidated over the years thank to many sacrifices.

METALSCREEN has been putting its experience and competence at customers' service for more than 100 years and has been the symbol of guarantee, quality, professionality and versatility.

Reliability has always distinguished us ensuring the highest quality of the raw materials processed, clever novelties, timely reactions, prompt answers, just in time production process, quick deliveries, lean organizational. flexibility, dynamic service, price competitiveness, business continuity, kindness and courtesy.

Reducing the energy use of the total building stock is the key to global warming prevention.

Most modern office buildings use more energy for cooling than heating. Effectively managing solar energy passing through the transparent part of the façade is a key strategy in the prevention of overheating in both old and new buildings.

Our high performance shading solutions bring substantial energy savings, while at the same time promoting health and wellbeing. Promoting health and wellbeing of their occupants is arguably the most important function of buildings.

Buildings are not constructed just to be energy efficient.

METALSCREEN contributes to sustainable buildings through aesthetic solutions that enhance comfort and save energy.

Our shading solutions promote the use of healthy daylight without the hindrances of glare and thermal discomfort. Our acoustic ceilings are a key element in the provision of acoustic comfort.

METALSCREEN Architectural's commitment to sustainability and responsible development is evidenced

by our continuous efforts to address environmental concerns, improve production processes, eliminate waste and reduce maintenance.

All aluminium products are 100% recyclable at the end of their lifecycle.

For decades we have been using ever higher ratios of recycled aluminium for our ceilings.

Currently our own produced aluminum contains 76% recycled material.

All our own production scrap is collected and re-worked into new valuable input for our melting processes.

METALSCREEN architectural products ceilings and claddings are designed to improve indoor environmental quality and conserve energy, supporting built environments that are comfortable, healthy, productive, and sustainable.

Our paint and aluminium melting processes are recommended in terms of clean production.

BIO SANITAS metal ceilings made of aluminium coated with antimicrobical coated bacterioproof Pro Hygien are suggested for healthcare, hospitals, food chains, schools, kitchens.

METALSCREEN products are still life for longevity, using materially health technical nutrients that can be refused at end of life as a high-quality source for something new. Keen on Green is an important company-wide initiative to reduce energy consumption, water usage and our overall carbon footprint.

We embrace ISO 9001 and 14001.



METALSCREEN®





YEARS OF entrepreneurial life

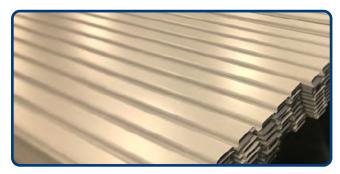
YEARS OF

experience in semi-finished aluminium products

YEARS OF

constant presence in the false ceilings sector

PRODUCT DESCRIPTION



This **EPD** reports environmental information on ceiling systems and external claddings made of aluminium. Aluminium ceiling systems are manufactured from folded or rollformed aluminium as a complete construction kit or as individual components.

The construction set comprises a top layer, e.g a linear panel or a tile, as well as the substructure for fastening the aluminium ceiling.

The panel is made of aluminium.

The substructure is made of aluminium.

indicators compared to the other products covered by functionality. this EPD are lower than 10%. The ceiling systems and Tile systems are manufactured with punching and moulding accordance with the respective customer's requirements Clip-in concealed systems | Lay-on Board flat | Layin tegular and can be of different types:

- Linear panels: full inspection ceiling linear removable Open cell ceilings systems: They provide creative mask to the closed gap, with or without joints;
- · Linear panels for external installation (i.e. petrol Easy mounting and demounting of panels with integrated stations):

Windproof ceiling linear panels rounded and squared suspension grid systems. edges, open gap and closed gaps, with and without joint Roll formed U-blade (dimensions width mm 10-15 and for external installations.

diffused ceiling panel system used in classic architectural optimum shading efficiency). solutions worldwide.

The product in Table 1 is selected as main reference Ceiling Tiles systems with square design offer the combination because differences between the mandatory impact of classic style with sobriety, simplicity concept with smart

claddings made of aluminium are used for indoor and robotized process in multiple installation concepts and edge outdoor purposes. The products are manufactured in options to obtain different visual aesthetic final variants:

depth of reveal | Flush systems | Deep Tegular

panels, rounded and square edges, open gap and plenum while enhances functionality. Create additional open spacious light appearance perfect for interior applications with shadows and lighting effects.

continue visual solution and lav-in drop on T24-15 mm metal

height mm 40-50) create light weight panels (mm 600x600-600x1200) with square and rectangular cells (available wide • Tiles modules: Tiles module mm 600x600 is the most variety of mesh sizes from mm 50x50 up to mm 200x200 for

> Linear panels and tile modules can be coupled with a soundabsorbing nonwoven tissue thermo-glued on the back to improve high acoustic performance and comfort noise control. Furthermore, METALSCREEN ceiling systems are available in wide choice of patterns, colors and finishes, such as RAL colors, WOOD LIKE finishes, OXIDAL anodized brushed finishes.

> TWIN LOCK substructure for fastening the metal ceiling has the following characteristics:

 TWIN LOCK substructure is the result of METALSCREEN extensive experience in the suspended worldwide market.

Table 1

ELEMENT	DESCRIPTION	WEIGHT (kg/m²)
Top layer	Linear panel type LO/180B	4,55
Substructure	Wall angle perimetrical frame C section	0,25
-	-	-
Product Total Weight		4,80



• The adopted policy is based on the use of seismic lock without click, NO rivet, NO snap tab to avoid dangers with earthquake seismic where common click systems will open and the panels, lamps etc. fall down.

• It determines the perfect installation of the grid, ensure maximum strength and greater safety once the main runner and cross tees are assembled. Little attention is needed during dismantling operations because TWIN LOCK isn't a click-on button dangerous grid system. Our joint fitted directly to the solid body has made the coupling of the profile on the system even more secure.

- Innovative and exclusive anti-torsion lock system installed on the grids vertical side guarantee rigidity and stability mechanical properties coupled with high torsional strength grid systems are produced according to the EN 13964 in full compliance with the highest quality standards.
- TWIN LOCK grid systems are available in 15 mm, 24 mm each profile height mm.38. Available standard colours: White RAL 9003 - Black RAL 9005 Metallic grey Silver RAL 9006.

Content declaration

The base materials of the product described in Table 1 are summarized in Table 2. For packaging the aluminium ceiling systems a wooden pallet, cardboard and plastic sheeting are used.

Recycled content of galvanized and pre-painted aluminium is 76,0% (source data: Ecoinvent dataset). The average recycled content of pre-painted aluminium is 76,0% (weighted average calculated considering the recycled content of materials purchased in 2020). Polyester resinbased paints are used.

Biogenic carbon content in accompaying packaging: 7,56E-04 kgC (1 kg of biogenic carbon is equivalent to 3,67 kg of CO2).

Table 2

COMPONENT MATERIAL	kg/kg						
PRODUCT							
Galvanized steel	-						
Pre-painted aluminium	1						
Pre-painted steel	-						
Total product	1						
PACKAGII	NG						
Wooden pallet	0,0020						
Polyethylene film	0,0158						
Cardboard	0,0052						
Total packaging	0,0072						
PROTECTIVE FILM							
Polyolefin film	0,0061						

The product does not contain substances from the candidate list for authorization of the Reach legislation with a concentration above 0.1% by weight.

Product-related environmental performances



Safety and security

- A1 Euroclass Reaction to fire (UNI EN 13501-1)
- Total protection against corrosion



Wellness and Sustainability

· Resistance to humidity and salinity



Disassembly

 Aluminium items are 100% recyclable at the end of their life cycle



Optimized acoustic

 METALSCREEN aluminium ceilings can be coupled with a sound-absorbing nonwoven tissue to improve high acoustic performance and comfort noise control



Adaptability

• Full adaptability of the systems, allowing easy installation and repositioning

SCOPE AND TYPE OF EPD

Type of EPD: Product EPD for metal ceiling systems made of aluminium

Database: Ecoinvent 3.7.1

Geographical Scope: World according to sales market conditions

Software: Simapro 9.2.0.1

Report LCA: Life Cycle Assessment (LCA) for manufacturing metal ceiling systems and claddings made of steel, metal ceiling systems and claddings made of aluminum,

metal ceiling systems made of steel-aluminium, v1 (2021)

Declared Unit: 1 kg metal ceiling systems made of aluminium (panels and structure), represented by reference product with a total system weight of 2,08 kg/m2.

This EPD covers all different variants within each ceiling system model made of aluminium since results do not vary more than 10% between them.

Weight per area (kg/m2) depends on panel perforation and structure applied to the specific product.

Table 3

Table 5		
ELEMENT	VALUE	UNIT
Declared Unit	1	kg
Grammage*	4,80**	kg/m²
Conversion factor to 1 kg	0,208	m²/kg

^{*}it does not include the packaging materials and the poliolefin protective film

^{**}Weight per unit of area of all variants covered by this EPD can vary between 1,4 and 6,8 kg/m2



TABLE OF MODULES																	
	PRODUCT STAGE			CONSTR	RUCTION S STAGE				F LIFE AGE		BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES						
	Raw material supply	Transport	Manufacturing	Transport from the gate to the site	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse - Recovery Recycling potential
MODULE	A1	A2	А3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	С3	C4	D
Module declared	Х	Х	Х	Х	ND	ND	ND	ND	ND	ND	ND	ND	Х	Х	X	Х	Х
Geography	WLD	WLD	IT	WLD	-	_	-	-	-	-	-	-	WLD	WLD	WLD	WLD	WLD
Specific data used		>90%		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation-products		<10%		-	-	-	-	-	-	-	-	_	-	-	-	-	-
Variation-sites	No	t Applica	able	ı	-	-	-	-	-	-	-	-	-	-	-	-	-

^{* 4} products' GWP-GHG indicator out of 78 differ more than ± 10% from the A1-A3 average product value. The products' GWP-GHG vary from -18% to +13%. The reason behind this variation is the difference in the combination of the constituent materials.

CALCOLATION RULES

Pre-painted metal coils used to produce the ceiling systems are intermediate products which are provided from companies specialized in trading and production of coated metal coils.

Primary data were collected from manufacturers of the main materials. Where suppliers' data were not comprehensive or available, they were complemented with similar supplier's data and selected generic data.

Polyester resin-based paints are used in the coating process of aluminium coils.

The antimicrobial paint used for BIO SANITAS ceiling system was assimilated to a generic polyester resin-based paint, as chemical composition, tecnical data and benefical actions are available upon customer's request.

In the LCA model, the average recycled content of pre-painted aluminium used is: 76,0% (weighted average calculated considering the recycled content of materials purchased in 2020).

Transport of raw materials to the manufacturing site (A2) was estimated based on the position of the suppliers involved.

For packaging materials an average distance of 100 km was assumed.

All products are manufactured in the plant located in Bomporto (Modena, Italy).

For METALSCREEN primary data, mass-based and economic allocation needed to be applied. Therefore, flows related to electricity consumption, natural gas, water and ancillary materials were assigned to the total mass production in 2020.

The total mass production flow was obtained from a mass balance of the entire process, by subtracting the total waste flow from the total mass of input materials in 2020 (warehouse stocks were not considered in the calculation).

For the distribution process (A4), economic allocation is used considering the share of each country of destination over total sales in 2020.

In module D, impacts arising from aluminium recycling are accounted, including avoided impacts associated to primary aluminium production.

The result is expressed as net value between direct impact (i.e. recycling aluminium from melted post-consumer scraps) and avoided impacts (i.e. producing aluminium from bauxite by electrolysis).

LCA METHODOLOGY

The environmental burden of the product has been calculated according to PCR 2019:14, 1.11,

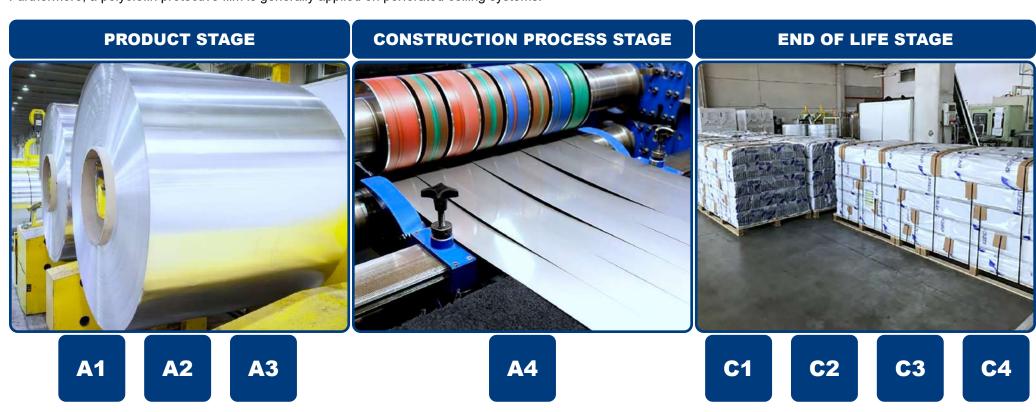
This declaration is a cradle to gate with options EPD type, based on the application of Life Cycle Assessment (LCA) methodology to the whole life cycle system. In the whole LCA model, infrastructures and production equipment are not considered.

Customized LCA questionnaires were used to gather in-depth information about all aspects of the production system, in order to provide a complete picture of the environmental burden of the system for example, raw materials specifications, process efficiencies, air emissions, waste management.

According to the PCR, processes contributing greater than 1% of the total environmental impact indicator for each impact are included in the inventory. No data gaps were allowed which were expected to significantly affect the outcome of the indicator results

PROCESS DESCRIPTION

The system components for metal ceilings are manufactured in a continuous manufacturing process. The aluminium sheets are mainly uncoiled, perforated (optional), clipped and folded or pressed. Subsequently, a thermoadesive acoustic tissue can be applied to the back of the panels by means of heat in a continuous process. Furthermore, a polyolefin protective film is generally applied on perforated ceiling systems.



PRODUCT STAGE

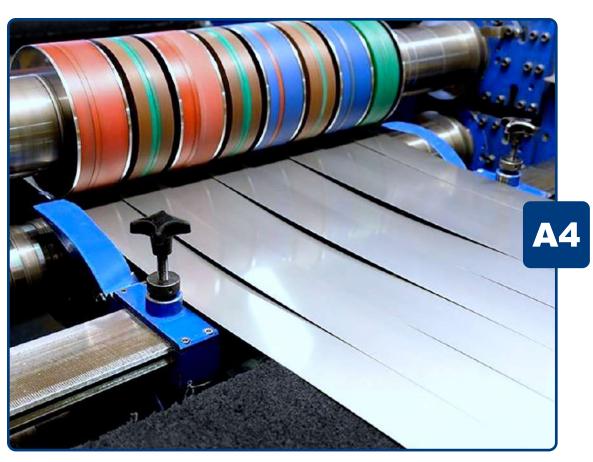


- · Raw materials extraction and processing
- Generation of electricity
- Extraction and processing of natural gas used for module A3 energy demand

• Raw materials transportation from production or collection facilities to the production plant located in Bomporto (Modena, Italy)

- · Natural gas combustion for energy production
- Treatment of waste generated from the manufacturing process
- Ancillary materials consumption
- Packaging materials

CONSTRUCTION PROCESS STAGE



 Transport to the customers. Distances were estimated based on the country of destination. Final products are delivered in Italy (about 70% of the total sold products) and balance exported worldwide.
 The products are delivered through truck and sea freight ship.
 Deliveries in Italy an avarage distance is assumed for North Italy (300km), Central Italy (500km) and South Italy (1000km).

END OF LIFE STAGE



- Dismantling operations are mainly performed manually. Energy consumption resulting from the use of power tools is difficult to estimate, therefore emissions associated to module C1 are set to zero.
- Transportation of the discarded product as part of the waste processing (to recycling site or to a final disposal site). In the LCA model, transportation of the discarded product to a recycling site or to a final disposal site (C2) was described considering 150 km by truck.
- Waste processing of material flows intended for reuse, recycling and energy recovery.

After use (end-of-life), 90% by weight of the discarded product is assumed to be recycled, according to european reference scenarios for aluminium sheets.

 Waste disposal including physical pre-treatment and management of the disposal site. The remaining 10% by weight of the discarded product is assumed to be landfilled (C4).



ENVIRONMENTAL PERFORMANCE

The detailed environmental performance (in terms of potential environmental impacts, use of resources and waste generations) is presented for the declared modules (A1-A2-A3-C1-C2-C3-C4-D). Construction installation (A5) and use phase (B1-B7) are modules not declared (ND). The results refer to the declared unit of 1 kg of metal ceiling made of steel and aluminium.

ENVIRONMENTAL IMPACT INDICATOR	UNITS / D.U	PRODUCT STAGE	CONSTRUCTION PROCESS STAGE			BENEFITS AND LOADS BEYOND SYSTEM BOUNDARIES		
IMPACT INDICATOR		A1-A3	A4	C1	C2	C3	C4	D
GWP	kg CO₂ eq	8,97E+00	7,74E-02	0,00E+00	2,06E-02	0,00E+00	2,39E-05	-4,68E+00
GWP,f	kg CO₂ eq	8,94E+00	7,74E-02	0,00E+00	2,06E-02	0,00E+00	2,39E-05	-4,67E+00
GWP,b	kg CO₂ eq	1,27E-02	4,19E-06	0,00E+00	1,12E-06	0,00E+00	7,29E-09	-4,91E-03
GWP,luluc	kg CO₂ eq	1,45E-02	5,91E-07	0,00E+00	1,58E-07	0,00E+00	1,00E-09	-6,32E-03
GWP,ghg	kg CO₂ eq	8,96E+00	7,74E-02	0,00E+00	2,06E-02	0,00E+00	2,39E-05	-4,68E+00
ODP	kg CFC11 eq	3,91E-07	1,81E-08	0,00E+00	4,83E-09	0,00E+00	5,36E-12	-1,22E-07
AP	mol H+ eq	5,39E-02	4,17E-04	0,00E+00	1,14E-04	0,00E+00	2,53E-07	-3,01E-02
EP,f	kg P eq	2,92E-04	4,27E-08	0,00E+00	1,15E-08	0,00E+00	2,45E-11	-1,41E-04
EP,m	kg N eq	8,81E-03	1,63E-04	0,00E+00	4,55E-05	0,00E+00	1,13E-07	-4,68E-03
EP,t	mol N eq	9,32E-02	1,79E-03	0,00E+00	4,99E-04	0,00E+00	1,24E-06	-5,17E-02
POCP	kg NMVOC eq	2,71E-02	4,69E-04	0,00E+00	1,30E-10	0,00E+00	3,39E-07	-1,48E-02
ADPE	kg Sb eq	1,71E-05	3,31E-09	0,00E+00	8,84E-10	0,00E+00	1,18E-12	-7,63E-07
ADPF	MJ	8,88E+01	1,11E+00	0,00E+00	2,95E-01	0,00E+00	3,31E-04	-4,10E+01
WDP	m³	2,65E+00	0,00E+00	0,00E+00	-6,20E-05	0,00E+00	7,32E-08	-1,38E-01

GWP Global Warming Potential, total

GWP,f Global Warming Potential, fossil

GWP,b Global Warming Potential, biogenic

GWP, luluc Global Warming Potential, land use & land use change

AP Acidification Potential

EP,f Eutrophication Potential, freshwater**

EP,m Eutrophication Potential, marine

EP,t Eutrophication Potential, terrestrial

POCP Photochemical Ozone Creation Potential

ADPE Abiotic Depletion Potential minerals & metals* **ADPF** Abiotic Depletion Potential fossil fuels*

WDP Water use Deprivation Potential*

Additional environmental impact indicators are computed in the LCA report but not reported in the EPD



^{** 1}kg of phosphorus is equivalent to 3,26 kg of phosphate.

^{*} The results of this environmental impact indicator shall be used with care as theuncertainties on these results are high or as there is limited experienced with the indicator.

PARAMETERS DESCRIBING RESOURCE USE

PARAMETER	UNITS / D.U	PRODUCT STAGE	CONSTRUCTION PROCESS STAGE			BENEFITS AND LOADS BEYOND SYSTEM BOUNDARIES		
		A1-A3	A 4	C1	C2	C3	C4	D
PERE	MJ	6,54E+00	1,63E-03	0,00E+00	4,34E-04	0,00E+00	9,04E-06	-2,15E+00
PERM	MJ	5,80E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	6,60E+00	1,63E-03	0,00E+00	4,34E-04	0,00E+00	9,04E-06	-2,15E+00
PENRE	MJ	1,19E+02	1,08E+00	0,00E+00	2,88E-01	0,00E+00	3,23E-04	-5,83E+01
PENRM	MJ	1,06E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	1,20E+02	1,08E+00	0,00E+00	2,88E-01	0,00E+00	3,23E-04	-5,83E+01
SM	kg	7,57E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,20E-01
RSF	MJ	0,00E+00	0,00E+00	0,00E+00	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	0,00E+00	0,00E+00	0,00E+00
FW	m³	7,22E-02	2,19E-05	0,00E+00	5,85E-06	0,00E+00	1,06E-08	-4,62E-03

PERE Renewable Energy (carrier) **PERM** Renewable Energy (feedstock) PERT Renenewable Energy (total) PENRE Non-Renewable Energy (carrier) **PENRM** Non-Renewable Energy (feedstock) PENRT Non-Renewable Energy (total) SM Use of Secondary Materials **RSF** Use of Renewable Secondary Fuels NRSF Use of Non-Renewable Secondary Fuels FW Use of Net Fresh Water





PARAMETERS DESCRIBING WASTE CATEGORIES AND OUTPUT FLOWS

PARAMETER	UNITS / D.U	PRODUCT STAGE	CONSTRUCTION PROCESS STAGE		BENEFITS AND LOADS BEYOND SYSTEM BOUNDARIES			
		A1-A3	A4	C1	C2	C3	C4	D
HWD	kg	9,65E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,81E-04
NHWD	kg	4,45E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,00E-02	1,30E-04
RWD	kg	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
MFR	kg	7,97E-02	0,00E+00	0,00E+00	0,00E+00	8,10E-01	0,00E+00	1,20E-02
MER	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EE	MJ	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 Re-Use
MFR Material for Recycling
MER Materials for Energy Recovery
EE Exported Energy (per energy carrier)

ADDITIONAL INFORMATION

Table 4

TRANSPORT TO CUSTOMERS		
PARAMETER	VALUE	UNIT
Vehicle type	Long distance lorry	-
Vehicle load capacity	16-32	t
Fuel type and consumption	0,038 kg of diesel to transport 1 tonn for 1 km	-
Average distance to site	560	km
Capacity utilisation (including empty returns)	95	%
Bulk density of transported products	-	kg/m³
Capacity utilisation	1	-

ENERGY CONSUMPTION

Manufacturing process electricity supply and consumption is 100% from national electricity grid. In the LCA model, the national specific residual mix was used (modelled according to the share of energy carriers listed for 2020 by the Association of Issuing Bodies for Italy). The electricity emission factor is 0.69 kgCO2/kWh (expressed as GWP-GHG indicator).

MAIN REFERENCES

PCR 2019:14 version 1.11 "Construction Products" (2021)

General Programme Instructions for The International EPD® System, version 3.01 (2019)

EN 15804:2012+A2:2019 "Sustainability of Construction Works - Environmental Product Declaration - Core rules for the product category of construction products" (2019)

LCA Report "Life Cycle Assessment (LCA) for manufacturing metal ceiling systems and claddings made of steel, metal ceiling systems and claddings made of aluminium, metal ceiling systems made of steel-aluminium" v1 (2021)









- A22 (FROM NORTH): exit Carpi; direction Soliera Sorbara Bomporto
- A1 (FROM NORTH): exit Modena Nord; Tangenziale exit n.10; direction Verona Mirandola Bastiglia Bomporto
- A1 (FROM SOUTH): exit South Modena; Tangenziale exit n.12; direction Ferrara Bomporto Finale Emilia
- A13 (FROM NORTH): exit North Ferrara; direction Finale Emilia Cento Bomporto
- INTERNATIONAL AIRPORT: Bologna G. Marconi

METALSCREEN g.e.e.e.







Via Aldo Moro 38 41030 Bomporto - Modena +39 059 817 0611 www.metalscreen.it metalscreen@metalscreen.it

FOR A SUSTAINABLE GROWTH TO RESPECT THE ENVIRONMENT AND HUMAN HEALTH: A CONSTANT EFFORT FOR EVERYONE'S FUTURE

METALSCREEN has committed itself for years in order to **minimize environmental impacts** of manifacturing processes.

We make every effort to promote the **rationalization of raw materials and energy**. We are committed to developing new products and services which contribute to a cleaner and safer world.

We promote the **development and sale of ceiling systems made of aluminium and steel**, produced with **new technologies**, **environmentally friendly, 100% recyclable** at the end of their life, not harmful to human health, dissuading the market from using harmful and not recyclable fibrous and chalky ceiling systems.

Our programmes have **eliminated the use of harmful raw materials and reduced energy consumption**. They constitute an integral part of our efforts to protect the environment and achieve excellence.







Certificazione sistema di gestione ISO 9001:2015 Qualità ISO 14001:2015 Ambientale



Products with Regulations Certified European EN 13964:2014 - EN 14195:2005