



The environmental impacts of this product have been assessed over its whole life cycle. Its Environmental Product Declaration has been verified by an independent third party.

Registration number
The International EPD® System:
S-P-00784



General information

Manufacturer: Saint-Gobain Construction Products Romania, Rigips Business Unit, Fabrica de Placi de Gips

Carton, Romania

Programme used: International EPD System http://www.environdec.com/

EPD registration number/declaration number: S-P-00784

PCR identification: EN 15804 Sustainability of construction works — Environmental product declaration - core rules for the product category of construction product and The International EPD® System PCR 2012:01 version 2.33 for Construction products and Construction with reference to the Saint Gobain Environmental Product Declaration Methodological Guide for Construction Products

Owner of the declaration: Saint-Gobain Construction Products Romania, Rigips Business Unit Product / product family name and manufacturer represented: Rigips RF 12.5 mm – Fireboard

Declaration issued: 2015-08-01 Revision date: 2020-10-16 Valid until: 2025-10-20

Demonstration of verification: an independent verification of the declaration was made, according to ISO 14025:2010. This verification was external and conducted by the following third party: Andrew NORTON, Renuables, based on the PCR mentioned above.

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The declared unit is 1 m² of Rigips RF 12.5mm - Fireboard with a weight of 10.39 kg/m²

Declaration of Hazardous substances: (Candidate list of Substances of Very High Concern): none

Environmental Management System in place at site: ISO 14001:2015 certificate N°: 10263182 Energy Management System in place at site: ISO 50001/2018 – certificate N°: 10265165 Quality Management System in place at site: ISO 9001:2015 - certificate N°: 10263200

Occupational Health and Safety Management System in place at site: ISO 45001:2018 - certificate N°:10263220

Geographical scope of the EPD®: Romania

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

CEN standard EN 15804 serves as the core PCR ^a		
PCR:	PCR 2012:01 Construction products and Construction services, Version 2.33	
PCR review was conducted by:	The Technical Committee of the International EPD® System. Chair: Massimo Marino. Contact via info@environdec.com	
Independent verification of the declaration, according to EN ISO 14025:2010 Internal □ External ⊠		
Third party verifier:	Andrew Norton , Renuables http://renuables.co.uk	
Accredited or approved by	The International EPD System	

Product description

Product description and use:

Rigips RF 12.5 is a gypsum plasterboard consisting of an aerated gypsum core encased in, and firmly bonded to, strong paper liners. The gypsum core contains mineral fibres and other additives to improve core adhesion at high temperature. Rigips RF 12.5 is a type F plasterboard conforming to the requirements of EN 520:2004+A1:2009 standard and comes with tapered edge on the long edges and has short edges sawn straight. Further details of product composition are confidential.

Rigips RF 12.5 is a plasterboard that is suitable for fire-resistant dryline for internal surfaces and for constructiong partitions. Rigips plasterboard are part of solutions for modern buildings providing moisture, fire, sound, thermal and impact resistance together with superbly smooth surfaces to create contemporary internal environments.

The high performance linings for walls and ceilings, partitions deliver comfort and safety for all occupants. Excellent durability of plasterboard construction elements makes them last for the building's lifetime, which is assumed to be 50 years (Saint-Gobain Methodological Guide).

Technical data/physical characteristics:

EN CLASSIFICATION	Type F, EN 520:2004+A1:2009
VAPOR RESISTANCE FACTOR	10/4 (dry/wet)
REACTION TO FIRE	A2-s1,d0
THERMAL CONDUCTIVITY	0.23 W/mK

Description of the main components and/or materials for 1 m² of product for the calculation of the EPD®:

PARAMETER	VALUE (expressed per functional/declared unit)
Quantity for 1 m ² of product	10.39 kg
Thickness	12.5 mm
Surfacing	Paper: 352.1 g/m ²
Packaging for the transportation and distribution	Cardboard: 0.5 g PP straps: 0.3 g Innen culls: 34.5 g
Product used for the Installation	Water: 0.165 l/ m ² Jointing compound: 0.33 kg/ m ² Jointing tape: 0.0042 kg/ m ²

During the life cycle of the product any hazardous substance listed in the "Candidate List of Substances of Very High Concern (SVHC) for authorization" has not been used in a percentage higher than 0,1% of the weight of the product.

The verifier and the programme operator do not make any claim nor have any responsibility of the legality of the product.

LCA calculation information

EPD TYPE DECLARED	Cradle to gate with options
DECLARED UNIT	The declared unit is 1 \mbox{m}^2 of Rigips RF 12.5mm – Fireboard with a weight of 10.39 $\mbox{kg/m}^2$
SYSTEM BOUNDARIES	Cradle to gate with options: stages A1 $-$ A3, A4 $-$ A5, $$ B1 $-$ B7, C1 $-$ C4
REFERENCE SERVICE LIFE (RSL)	50 years By default, it corresponds to Standards building design life and value is included in Appendix III of Saint-Gobain Environmental Product Declaration Methodological Guide for Construction Products
CUT-OFF RULES	Life Cycle Inventory data for a minimum of 99% of total inflows to the upstream and core module shall be included
ALLOCATIONS	Production data. Recycling, energy and waste data have been calculated on a mass basis.
GEOGRAPHICAL COVERAGE AND TIME PERIOD	Scope includes: Romania Primary data is collected from one production site at Saint-Gobain Construction Products Romania, Rigips Business Unit Data collected for the year 2019 Background data: Ecoinvent (v3.1 2013 and 3.5 2015) and GaBi (SP37 2019)
PRODUCT CPC CODE	37530 Articles of plaster or of composition based on plaster

According to EN 15804, EPDs of construction products may not be comparable if they do not comply with this standard. According to ISO 21930, EPDs might not be comparable if they are from different programmes.

Life cycle stages

Flow diagram of the Life Cycle



Product stage, A1-A3

Description of the stage: the product stage of plaster products is subdivided into 3 modules A1, A2 and A3 respectively "Raw material supply", "transport to manufacturer" and "manufacturing".

A1, raw material supply.

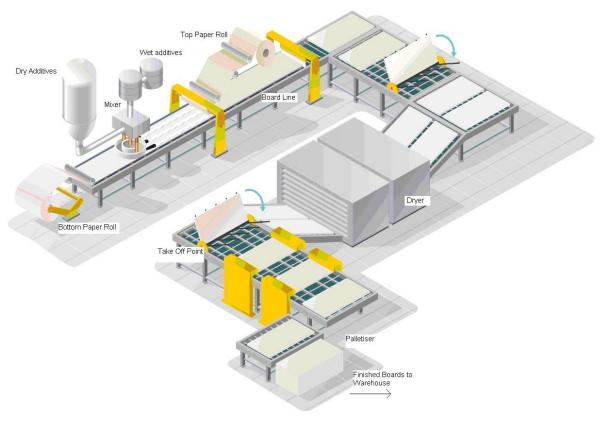
This includes the extraction and processing of all raw materials and energy which occur upstream from the manufacturing process.

A2, transport to the manufacturer.

The raw materials are transported to the manufacturing site. The modelling includes road, boat and/or train transportations of each raw material.

A3, manufacturing.

This module includes the manufacture of products and the manufacture of packaging. The production of packaging material is taken into account at this stage. The processing of any waste arising from this stage is also included.



Manufacturing in detail:

Rigips gypsum plasterboards are manufactured in a highly automated continuous process. Natural and recycled gypsum waste are milled and calcined in a hammer mill in order to produce plaster powder. Plaster powder (stucco), solid & liquid additives and pre-generated foam are mixed in a high-speed mixer to form homogeneous slurry. The slurry is then spread via multiple hose outlets onto a paper liner on a moving conveyor belt. A second paper liner is fed onto the production line from above to form the plasterboard. The sandwich passes through the extruder to be compressed to the specific thickness. At the end of forming belt, the mother board has a sufficient strength and is cut into panels of specific length. These boards are turned over, feed through a long multi-level dryer to evaporate excess water and get strength. The dried plasterboard is trimmed and bundled for shipment.

Construction process stage, A4-A5

Description of the stage: the construction process is divided into 2 modules: A4, transport to the building site and A5, installation in the building

A4, transport to the building site.

This module includes transport from the production gate to the building site. Transport is calculated on the basis of a scenario with the parameters described in the following table.

PARAMETER	VALUE (expressed per functional/declared unit)
Fuel type and consumption of vehicle or vehicle type used for transport e.g. long distance truck, boat, etc.	Truck, maximum load weight of 24 t and consumption of 0.34 liters per km
Distance	380 km
Capacity utilisation (including empty returns)	90% (16% of empty return)
Bulk density of transported products	802 kg/m ³
Volume capacity utilisation factor	1

A5, installation into the building.

The accompanying table quantifies the parameters for installing the product at the building site. All installation materials and their waste processing are included.

PARAMETER	VALUE (expressed per functional/declared unit)
Ancillary materials for installation (specified by materials)	Jointing compound 0.33kg/m 2 board, tape 1.23m /m 2 board, screws 8 /m 2 board
Water use	0.165 litres/m² board
Other resource use	None
Quantitative description of energy type (regional mix) and consumption during the installation process	None
Wastage of materials on the building site before waste processing, generated by the product's installation (specified by type)	Plasterboard: 0,519 kg (5%) Screws: 0 kg Jointing Compound: 0.0165 kg Jointing Tape: 0.00021 kg Cardboard: 0.5 g PP straps: 0.3 g Innen culls: 34.5 g
Output materials (specified by type) as results of waste processing at the building site e.g. of collection for recycling, for energy recovering, disposal (specified by route)	Plasterboard: 0,519 kg to landfill Screws: 0 kg Jointing Compound: 0.0165 kg to landfill Jointing Tape: 0.00021 kg to landfill Cardboard: 0.5 g to recycling PP straps: 0.3 g to recycling Innen culls: 34.5 g to recycling
Direct emissions to ambient air, soil and water	None

Use stage (excluding potential savings), B1-B7

Description of the stage:

The use stage, related to the building fabric includes:

B1, use or application of the installed product;

B2, maintenance;

B3, repair;

B4, replacement;

B5, refurbishment;

B6, operational energy use

B7, operational water use

Description of scenarios and additional technical information:

The product has a reference service life of 50 years. This assumes that the product will last in situ with no requirements for maintenance, repair, replacement or refurbishment throughout this period. Therefore, it has no impact at this stage.

Maintenance:

PARAMETER	VALUE (expressed per functional/declared unit)
Maintenance process	None required during product lifetime
Maintenance cycle	None required during product lifetime
Ancillary materials for maintenance (e.g. cleaning agent, specify materials)	None required during product lifetime
Wastage material during maintenance (specify materials)	None required during product lifetime
Net fresh water consumption during maintenance	None required during product lifetime
Energy input during maintenance (e.g. vacuum cleaning), energy carrier type, (e.g. electricity) and amount, if applicable and relevant	None required during product lifetime

Repair:

PARAMETER	VALUE (expressed per functional/declared unit)
Repair process	None required during product lifetime
Inspection process	None required during product lifetime
Repair cycle	None required during product lifetime
Ancillary materials (e.g. lubricant, specify materials)	None required during product lifetime
Wastage material during repair (specify materials)	None required during product lifetime
Net fresh water consumption during repair	None required during product lifetime
Energy input during repair (e.g. crane activity), energy carrier type, (e.g. electricity) and amount if applicable and relevant	None required during product lifetime

Replacement:

PARAMETER	VALUE (expressed per functional/declared unit)
Replacement cycle	None required during product lifetime
Energy input during replacement (e.g. crane activity), energy carrier type, (e.g. electricity) and amount if applicable and relevant	None required during product lifetime
Exchange of worn parts during the product's life cycle (e.g. zinc galvanized steel sheet), specify materials	None required during product lifetime

Refurbishment:

PARAMETER	VALUE (expressed per functional/declared unit)
Refurbishment process	None required during product lifetime
Refurbishment cycle	None required during product lifetime
Material input for refurbishment (e.g. bricks), including ancillary materials for the refurbishment process (e.g. lubricant, specify materials)	None required during product lifetime
Wastage material during refurbishment (specify materials)	None required during product lifetime
Energy input during refurbishment (e.g. crane activity), energy carrier type, (e.g. electricity) and amount	None required during product lifetime
Further assumptions for scenario development (e.g. frequency and time period of use, number of occupants)	None required during product lifetime

Use of energy and water:

PARAMETER	VALUE (expressed per functional/declared unit)
Ancillary materials specified by material	None required during product lifetime
Net fresh water consumption	None required during product lifetime
Type of energy carrier (e.g. electricity, natural gas, district heating)	None required during product lifetime
Power output of equipment	None required during product lifetime
Characteristic performance (e.g. energy efficiency, emissions, variation of performance with capacity utilisation etc.)	None required during product lifetime
Further assumptions for scenario development (e.g. frequency and time period of use, number of occupants)	None required during product lifetime

End-of-life stage C1-C4

Description of the stage: This stage includes the next modules:

- C1, de-construction, demolition;
- C2, transport to waste processing;
- C3, waste processing for reuse, recovery and/or recycling;
- **C4,** disposal, including provision and all transport, provision of all materials, products and related energy and water use.

Description of the scenarios and additional technical information for the end-of-life:

PARAMETER	VALUE (expressed per functional/declared unit)
Collection process specified by type	10.39 kg collected with mixed construction waste
Recovery system specified by type	none
Disposal specified by type	100% landfilled
Assumptions for scenario development (e.g. transportation)	On average, gypsum waste is transported 80 km to the landfill facility.

Reuse/recovery/recycling potential, D

Description of the stage: module D has not been taken into account.

LCA results

Description of the system boundary (X = Included in LCA, MNA = Module Not Assessed)

CML 2001 has been used as the impact model. Specific data has been supplied by the plant, and generic data come from GABI and Ecoinvent databases.

All emissions to air, water, and soil, and all materials and energy used have been included.

All figures refer to a declared unit of 1 m² of Rigips RF 12.5mm – Fireboard with a weight of 10.39 kg/m².

	RODU(STAGE			CONSTRUCTION STAGE			USE STAGE								END OF LIFE STAGE					
Raw material supply	Transport	Manufacturing	Transport	Construction-Installation process	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-recovery				
A 1	A2	А3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	C3	C4	D				
X	X	X	X	X	x x x x x x x x x x x x					MNA										

	ENVIRONMENTAL IMPACTS																
	Parameters			ruction s stage	Use stage								End-of-life stage				
			A4 Transport	A5 Installation	B1 Use	B2 Maintenance	B3 Repair	B4 Replacement	B5 Refurbishment	B6 Operational energy use	B7 Operational water use	C1 Deconstructio n / demolition	C2 Transport	C3 Waste processing	C4 Disposal	D Reuse, recovery, recycling	
CO2	Global Warming Potential	2,5E+00	2,0E-01	1,7E-01	0	0	0	0	0	0	0	4,8E-02	4,2E-02	0	1,7E-01	MNA	
	(GWP 100) - kg CO ₂ equiv/FU	The global warming potential of a gas refers to the total contribution to global warming resulting from the emission of one unit of that gas relative to one unit of the reference gas, carbon dioxide, which is assigned a value of 1.														unit of the	
	Ozone Depletion (ODP) kg CFC 11 equiv/FU	3,2E-08	3,1E-17	1,6E-09	0	0	0	0	0	0	0	6,5E-18	1,0E-17	0	9,5E-16	MNA	
		Destruction of the stratospheric ozone layer which shields the earth from ultraviolet radiation harmful to life, This destruction of ozone is caused by the breakdown of certain chlorine and/or bromine containing compounds (chlorofluorocarbons or halons), which break down when they reach the stratosphere and then catalytically destroy ozone molecules,															
	Acidification potential (AP) kg SO ₂ equiv/FU	5,9E-03	8,2E-04	4,3E-04	0	0	0	0	0	0	0	1,7E-04	1,7E-04	0	9,7E-04	MNA	
		Acid depositions have negative impacts on natural ecosystems and the man-made environment incl, buildings, The main sources for emissions of acidifying substances are agriculture and fossil fuel combustion used for electricity production, heating and transport,													difying		
iy ₄	Eutrophication potential (EP) kg (PO ₄) ³⁻ equiv/FU	2,1E-03	2,0E-04	1,2E-04	0	0	0	0	0	0	0	9,8E-06	4,3E-05	0	1,1E-04	MNA	
	ng (1 04) equiv/1 0			Excessiv	e enrichme	nt of water	s and conti	nental surf	aces with n	utrients, ar	nd the asso	ciated adve	rse biologio	cal effects,			
	Photochemical ozone creation (POPC)	2,8E-04	3,0E-05	5,4E-05	0	0	0	0	0	0	0	1,1E-05	6,9E-06	0	8,0E-05	MNA	
	kg Ethylene equiv/FU	Chemica	l reactions	brought ab	out by the	light energy				gen oxides mical reacti	-	carbons in t	the presenc	e of sunligh	nt to form o	zone is an	
	Abiotic depletion potential for non-fossil ressources (ADP-elements) - kg Sb equiv/FU	5,4E-06	2,7E-09	2,2E-06	0	0	0	0	0	0	0	1,2E-09	3,6E-09	0	5,8E-08	MNA	
(Page	Abiotic depletion potential for fossil ressources (ADP-fossil	3,7E+01	2,9E+00	2,3E+00	0	0	0	0	0	0	0	6,0E-01	5,6E-01	0	2,3E+00	MNA	
	fuels) - MJ/FU				Consur	nption of no	n-renewable	resources	thereby lov	vering their	availability f	or future ge	nerations.				

RESOURCE USE

					ILLUUU										
	Product stage		on process age				Use sta	ge			very,				
Parameters	A1 / A2 / A3	A4 Transport	A5 Installation	B1 Use	B2 Maintenance	B3 Repair	B4 Replacement	B5 Refurbishme nt	B6 Operational energy use	B7 Operational water use	C1 Deconstructi on / demolition	C2 Transport	C3 Waste processing	C4 Disposal	D Reuse, recovery, recycling
Use of renewable primary energy excluding renewable primary energy resources used as raw materials MJ/FU	1,75E+01	6,6E-02	1,1E+00	0	0	0	0	0	0	0	1,9E-03	3,4E-02	0	3,0E-01	MNA
Use of renewable primary energy used as raw materials MJ/FU	6,57E+00	0	3,1E-01	0	0	0	0	0	0	0	0	0	0	0	MNA
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials) MI/FII	2,40E+01	6,6E-02	1,4E+00	0	0	0	0	0	0	0	1,9E-03	3,4E-02	0	3,0E-01	MNA
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials - MJ/FU	3,86E+01	2,9E+00	2,5E+00	0	0	0	0	0	0	0	6,0E-01	5,7E-01	0	2,4E+00	MNA
Use of non-renewable primary energy used as raw materials MJ/FU	1,46E+00	0	7,0E-02	0	0	0	0	0	0	0	0	0	0	0	MNA
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw	4,00E+01	2,9E+00	2,5E+00	0	0	0	0	0	0	0	6,0E-01	5,7E-01	0	2,4E+00	MNA
Use of secondary material kg/FU	1,25E-01	0	7,8E-03	0	0	0	0	0	0	0	0	0	0	0	MNA
Use of renewable secondary fuels - MJ/FU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	MNA
Use of non-renewable secondary fuels - MJ/FU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	MNA
Use of net fresh water - m³/FU	3,18E-02	2,2E-05	1,9E-03	0	0	0	0	0	0	0	3,6E-06	5,7E-05	0	5,9E-04	MNA

WASTE CATEGORIES Construction Use stage End-of-life stage D Reuse, recovery, recycling process stage B5 Refurbishment B7 Operational water use B6 Operational energy use C2 Transport **Parameters** B3 Repair B1 Use Hazardous waste disposed 1,9E-05 1,0E-08 9,5E-07 0 0 0 0 0 0 0 7,4E-11 3,1E-08 0 4,0E-08 MNA kg/FU Non-hazardous (excluding inert) waste disposed 2,0E-01 0 0 0 3,5E-05 5,6E-01 0 0 0 8,8E-05 4,8E-05 1,1E+01 MNA kg/FU Radioactive waste disposed 6,0E-04 3,3E-06 4,4E-05 0 0 0 0 0 0 0 7,4E-07 1,2E-06 0 3,1E-05 MNA kg/FU

	OUTPUT FLOWS															
			Constr proces	ruction s stage				Use stage		ery,						
Parameters		A1 / A2 / A3	A4 Transport	A5 Installation	B1 Use	B2 Maintenance	B3 Repair	B4 Replacement	B5 Refurbishment	B6 Operational energy use	B7 Operational water use	C1 Deconstruction / demolition	C2 Transport	C3 Waste processing	C4 Disposal	D Reuse, recovery, recycling
Cor kg/l	mponents for re-use /FU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	MNA
Mat kg/l	aterials for recycling /FU	3,6E-02	0	3,7E-02	0	0	0	0	0	0	0	0	0	0	0	MNA
Mai kg/l	aterials for energy recovery FU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	MNA
	ported energy, detailed by ergy carrier <i>MJ/FU</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	MNA

LCA results interpretation

The following figure refers to a declared unit of 1 m² of Rigips RF 12.5mm – Fireboard with a weight of 10.39 kg/m²



- [1] This indicator corresponds to the abiotic depletion potential of fossil resources.
- [2] This indicator corresponds to the total use of primary energy.
- [3] This indicator corresponds to the use of net fresh water.
- $\label{lem:corresponds} \textbf{[4] This indicator corresponds to the sum of hazardous, non-hazardous and radioactive waste disposed.} \\$

Global Warming Potential (Climate Change) (GWP)

When analyzing the above figure for GWP, it can clearly be seen that the majority of contribution to this environmental impact is from the production modules (A1 – A3). This is primarily because the sources of greenhouse gas emissions are predominant in this part of the life cycle. CO₂ is generated upstream from the production of electricity and is also released on site by the combustion of natural gas. We can see that other sections of the life cycle also contribute to the GWP; however the production modules contribute to over 80% of the contribution. Combustion of fuel in transport vehicles will generate the second highest percentage of greenhouse gas emissions.

Non-renewable resources consumptions

We can see that the consumption of non – renewable resources is once more found to have the highest value in the production modules. This is because a large quantity of natural gas is consumed within the factory, and non – renewable fuels such as natural gas and coal are used to generate the large amount of electricity we use. The contribution to this impact from the other modules is very small and primarily due to the non – renewable resources consumed during transportation.

Energy Consumptions

As we can see, modules A1 – A3 have the highest contribution to total energy consumption. Energy in the form of electricity and natural gas is consumed in a vast quantity during the manufacture of plasterboard so we would expect the production modules to contribute the most to this impact category.

Water Consumption

Water is used within the manufacturing facility and therefore we see the highest contribution in the production phase. However, we recycle a lot of the water on site so the contribution is still relatively low. The second highest contribution occurs in the installation site due to the water used on the joint components.

Waste Production

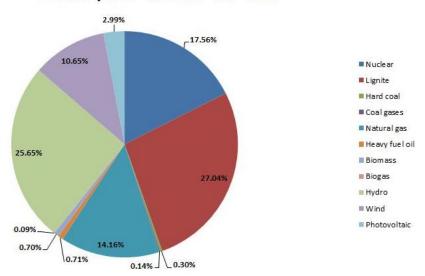
Waste production does not follow the same trend as the above environmental impacts. The largest contributor is the end of life module. This is because the 100% of the product is assumed here to be sent to landfill once it reaches the end of life state. The very small impact associated with installation is due to the loss rate of product during implementation.

Additional information

Electricity description

TYPE OF INFORMATION	DESCRIPTION
Location	Representative of average production in Romania
Geographical representativeness description	•
Reference year	2016
Type of data set	Cradle to gate from Thinkstep database
Source	Gabi database v2020 from International Energy Agency -2015
CO ₂ emission kg CO ₂ eq. / kWh	0,462

Electricity Mix - Romania - RO - 2015



References

- 1. EPD International (2017) General Programme Instructions for the International EPD® System. Version 3.0, dated 2017-12-11. www.environdec.com.
- The International EPD System PCR 2012:01 Construction products and Construction services, Version 2.33
- EN 15804:2012 + A1:2013 Sustainability of construction works Environmental product declarations
 Core rules for the product category of construction products
- 4. ISO 21930:2017 Sustainability in building construction Environmental declaration of building products
- 5. ISO 14025:2006 Environmental labels and declarations Type III environmental declarations Principles and procedures
- 6. ISO 14040:2006 Environmental management. Life cycle assessment. Principles and framework
- 7. ISO 14044:2006 Environmental management. Life cycle assessment. Requirements and guidelines
- 8. Saint-Gobain Environmental Product Declaration Methodological Guide for Construction Products, Version 3.0.1 (2013)
- 9. European Chemical Agency, Candidate List of substances of very high concern for Authorisation. http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp
- 10. International Energy Agence IEA World Energy Balances 2017 https://webstore.iea.org/world-energy-balances-2017
- 11. EN ISO 9001:2015 Quality management systems. Requirements
- 12. EN ISO 14001:2015 Environmental management systems. Requirements with guidance for use
- 13. ISO 45001:2018 Occupational health and safety management systems. Requirements with guidance for use
- 14. EN ISO 50001:2018 Energy management systems. Requirements with guidance for use