



GRANULATS DU HAINAUT

**Environmental
Product
Declaration**

According to ISO14025+EN15804+A2

This declaration is for:
Armourstone Granulats du Hainaut S.A.

Provided by:
Granulats du Hainaut S.A.



MRPI® registration:
1.1.00887.2025

Program operator:
Stichting MRPI®
Publisher:
Stichting MRPI®
www.mrpi.nl

Date of first issue:
2-7-2025
Date of this issue:
2-7-2025
Expiry date:
2-7-2030





GRANULATS DU HAINAUT

COMPANY INFORMATION

Granulats du Hainaut S.A.
Route de la Pierre Bleue, 1
B-7060
SOIGNIES
Belgium
+32 (0)67 64 54 96
info@granulatsduhainaut.com
<https://www.granulatsduhainaut.com>

MRPI® REGISTRATION

1.1.00887.2025

DATE OF THIS ISSUE

2-7-2025

EXPIRY DATE

2-7-2030

SCOPE OF DECLARATION

This MRPI®-EPD certificate is verified by T. Mol, Ecoreview b.v.. The LCA study has been done by A.K. Jeeninga, Advieslab v.o.f.. The certificate is based on an LCA-dossier according to ISO14025+EN15804+A2. It is verified according to the 'MRPI®-EPD verification protocol May 2025. EPDs of construction products may not be comparable if they do not comply with EN15804+A2. Declaration of SVHC that are listed on the 'Candidate list of Substances of Very High Concern for authorisation' when content exceeds the limits for registration with ECHA.

PROGRAM OPERATOR

Stichting MRPI®
Kingsfordweg 151
1043 GR
Amsterdam

PRODUCT

Armourstone Granulats du Hainaut S.A.

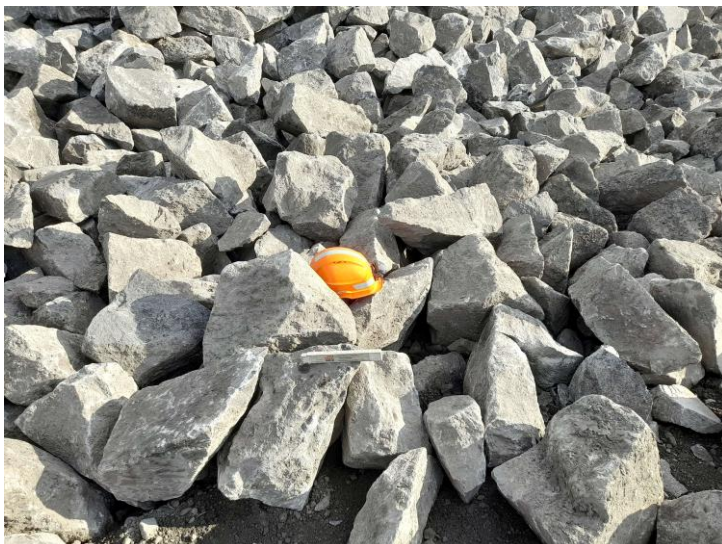
DECLARED UNIT / FUNCTIONAL UNIT

1000 Mass (kg)

DESCRIPTION OF PRODUCT

1 ton Armourstone in various- weight- and dimension categories. Intended use of the product is mainly construction works and water works.

VISUAL PRODUCT



MORE INFORMATION

<https://www.granulatsduhainaut.com>

Ing. L. L. Oosterveen MSc. MBA
Managing Director MRPI

DEMONSTRATION OF VERIFICATION

CEN standard EN15804 serves as the core PCR [1]

Independent verification of the declaration and data
according to ISO14025+EN15804+A2

Internal:

External: X

Third party verifier: T. Mol, Ecoreview b.v.

[1] PCR = Product Category Rules





GRANULATS DU HAINAUT

DETAILED PRODUCT DESCRIPTION (PART 1)

Granulats du Hainaut extracts gravel and armourstone of different sizes from quarry du Hainaut. This EPD is including the loading of trucks on the site, ready for transport to customer.

Range of Armour Stone(RipRap):

5/40

10/60

40/200

60/300

300/1000

1000/3000

Production according to EN 13383-1:2002/AC:2004. The Reference Service Life is 999 years.

Armourstone	1

	stays in work/ not removed	recycling
End of life scenario: according to NMD ID 77; stoney material, hydraulic engineering	10%	90%

Component (> 1%)	(%)
Armourstone	100%

SCOPE AND TYPE

This is a product specific LCA concerning cradle to gate with modules C1-C4 and module D

Production location: Granulats du Hainaut

Address production location: Route de la Pierre Bleue, B-7060 SOIGNIES.

Used database: EcolInvent version 3.6 calculated with: Sima Pro version 9.1.1 Characterization by Bepalingsmethode 'set 1', 'set2' & param (NMD 3.4) v1.00 (E.F. 3.0). Applied (market): E.U.

End of life is based on the Dutch waste scenario's (NMD)

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

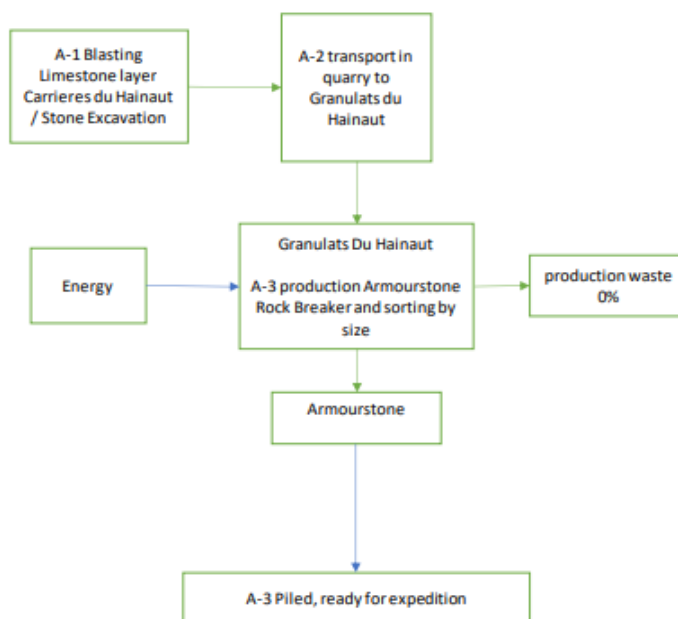
X = Modules Assessed

ND = Not Declared

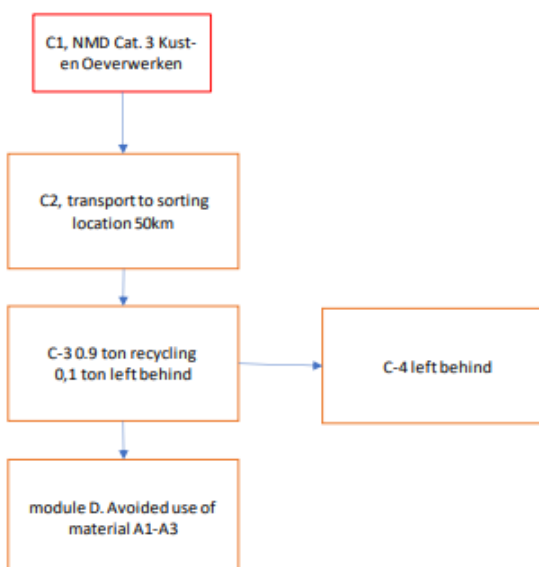




GRANULATS DU HAINAUT



A -4 + A-5 + fase B are not applicable



REPRESENTATIVENESS

This EPD is representative for Armourstone Granulats du Hainaut S.A., a product of Granulats du Hainaut. The results of this EPD are representative for Europe.





GRANULATS DU HAINAUT

ENVIRONMENTAL IMPACT per functional unit or declared unit (indicators A1)

	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
ADPE	kg Sb eq.	0,00E+00	1,18E-06	4,30E-05	4,42E-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,12E-06	1,54E-04	1,67E-05	4,82E-06	-1,67E-05
ADPF	MJ	0,00E+00	1,07E+00	3,62E+01	3,73E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,01E+01	9,16E+01	2,90E-09	1,47E+01	-2,90E-09
GWP	kg CO2 eq.	0,00E+00	6,85E-02	1,53E+00	1,60E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	7,24E-01	6,02E+00	1,40E+00	5,17E-01	-1,40E+00
ODP	kg CFC11 eq.	0,00E+00	1,29E-08	2,91E-07	3,04E-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,25E-07	1,07E-06	2,70E-07	1,72E-07	-2,70E-07
POCP	kg ethene eq.	0,00E+00	4,29E-05	1,16E-03	1,20E-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	7,37E-04	3,63E-03	1,01E-03	5,51E-04	-1,01E-03
AP	kg SO2 eq.	0,00E+00	2,25E-04	7,25E-03	7,47E-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	5,45E-03	2,65E-02	6,87E-03	3,78E-03	-6,87E-03
EP	kg (PO4) 3 eq.	0,00E+00	4,15E-05	1,30E-03	1,34E-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,24E-03	5,22E-03	1,55E-03	7,29E-04	-1,55E-03

Toxicity indicators and ECI (Dutch market)

HTP	kg DCB eq.	0,00E+00	3,25E-02	1,60E+00	1,64E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	2,68E-01	2,54E+00	1,35E+00	2,34E-01	-1,35E+00
FAETP	kg DCB eq.	0,00E+00	8,85E-04	1,75E-02	1,84E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	3,73E-03	7,40E-02	1,42E-02	5,54E-03	-1,42E-02
MAETP	kg DCB eq.	0,00E+00	3,47E+00	4,91E+01	5,25E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,30E+01	2,66E+02	4,47E+01	1,98E+01	-4,47E+01
TETP	kg DCB eq.	0,00E+00	1,05E-04	1,10E-02	1,11E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	4,41E-04	8,96E-03	8,76E-03	5,87E-04	-8,76E-03
ECI	euro	0,00E+00	9,00E-03	2,72E-01	2,80E-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	9,70E-02	7,26E-01	2,42E-01	7,30E-02	-2,41E-01
ADPF	kg Sb eq.	0,00E+00	5,10E-04	1,00E-02	1,05E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	4,77E-03	4,43E-02	9,13E-03	7,04E-03	-9,13E-03

ADPE	=	Abiotic Depletion Potential for non-fossil resources
ADPF	=	Abiotic Depletion Potential for fossil resources
GWP	=	Global Warming Potential
ODP	=	Depletion potential of the stratospheric ozone layer
POCP	=	Formation potential of tropospheric ozone photochemical oxidants
AP	=	Acidification Potential of land and water
EP	=	Eutrophication Potential
HTP	=	Human Toxicity Potential
FAETP	=	Fresh water aquatic ecotoxicity potential
MAETP	=	Marine aquatic ecotoxicity potential
TETP	=	Terrestrial ecotoxicity potential
ECI	=	Environmental Cost Indicator
ADPF	=	Abiotic Depletion Potential for fossil resources



**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.	0,00E+00	6,91E-02	1,56E+00	1,63E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	7,31E-01	6,08E+00	1,43E+00	5,27E-01	-1,43E+00
GWP-fossil kg CO2 eq.	0,00E+00	6,91E-02	1,56E+00	1,63E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	7,31E-01	6,07E+00	2,06E-03	5,27E-01	-2,06E-03
GWP-biogenic kg CO2 eq.	0,00E+00	2,74E-05	5,32E-04	5,59E-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,32E-04	2,45E-03	-5,09E-03	3,33E-04	5,09E-03
GWP-luluc kg CO2 eq.	0,00E+00	2,01E-05	2,48E-03	2,50E-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	5,75E-05	2,23E-03	2,39E-07	1,47E-04	-2,39E-07
ODP kg CFC11 eq.	0,00E+00	1,63E-08	2,53E-07	2,69E-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,58E-07	1,34E-06	2,91E-01	2,17E-07	-2,91E-01
AP mol H+ eq.	0,00E+00	2,90E-04	9,51E-03	9,80E-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	7,65E-03	3,52E-02	1,42E+00	5,00E-03	-1,42E+00
EP-fresh water kg PO4 eq.	0,00E+00	5,27E-07	5,24E-05	5,29E-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	2,65E-06	6,12E-05	3,09E-02	5,90E-06	-3,09E-02
EP-marine kg N eq.	0,00E+00	8,74E-05	2,89E-03	2,97E-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	3,38E-03	1,24E-02	2,64E-03	1,72E-03	-2,64E-03
EP-terrestrial mol N eq.	0,00E+00	9,65E-04	3,28E-02	3,37E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	3,70E-02	1,37E-01	8,60E-03	1,90E-02	-8,60E-03
POCP kg NMVOC eq.	0,00E+00	3,10E-04	9,45E-03	9,76E-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,02E-02	3,91E-02	2,84E+02	5,51E-03	-2,84E+02
ADP-minerals & metals kg Sb eq.	0,00E+00	1,18E-06	4,30E-05	4,42E-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,12E-06	1,54E-04	4,81E-08	4,82E-06	-4,81E-08
ADP-fossil MJ, net calorific value	0,00E+00	1,07E+00	3,62E+01	3,73E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,01E+01	9,16E+01	2,90E-09	1,47E+01	-2,90E-09
WDP m3 world eq. Deprived	0,00E+00	3,49E-03	4,71E+01	4,71E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,35E-02	3,28E-01	8,95E+01	6,60E-01	-8,95E+01

GWP-total	=	Global Warming Potential total
GWP-fossil	=	Global Warming Potential fossil fuels
GWP-biogenic	=	Global Warming Potential biogenic total
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.



GRANULATS DU HAINAUT

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	0,00E+00	6,25E-09	1,77E-07	1,83E-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	2,03E-07	5,45E-07	1,64E-04	9,72E-08	-1,64E-04
IRP kBq U235 eq.	0,00E+00	4,70E-03	3,20E-01	3,25E-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	4,31E-02	3,84E-01	-3,07E+01	6,04E-02	3,07E+01
ETP-fw CTUe	0,00E+00	8,55E-01	3,19E+02	3,20E+02	ND	ND	ND	ND	ND	ND	ND	ND	ND	6,07E+00	8,17E+01	9,04E-03	9,55E+00	-9,04E-03
HTP-c CTUh	0,00E+00	2,11E-11	3,79E-09	3,81E-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	2,12E-10	2,65E-09	1,67E-05	2,21E-10	-1,67E-05
HTP-nc CTUh	0,00E+00	9,73E-10	6,05E-08	6,15E-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	5,22E-09	8,96E-08	3,30E+01	6,79E-09	-3,30E+01
SQP -	0,00E+00	1,23E+00	8,27E+01	8,40E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,28E+00	7,94E+01	1,63E-07	3,09E+01	-1,63E-07

- 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.





GRANULATS DU HAINAUT

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

	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
HWD	kg	0,00E+00	2,61E-06	5,25E-05	5,51E-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	2,74E-05	2,32E-04	4,86E-05	2,20E-05	-4,86E-05
NHWD	kg	0,00E+00	9,35E-02	3,12E-01	4,05E-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,19E-02	5,81E+00	3,27E-01	1,00E+02	-3,27E-01
RWD	kg	0,00E+00	7,33E-06	2,94E-04	3,01E-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	6,98E-05	6,03E-04	2,70E-04	9,67E-05	-2,70E-04
CRU	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	9,00E+02	0,00E+00	-9,00E+02
MER	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	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





GRANULATS DU HAINAUT

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	0,00E+00	1,35E-02	2,70E+00	2,71E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	5,44E-02	1,15E+00	1,96E+00	1,19E-01	-1,96E+00
PERM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	0,00E+00	1,35E-02	2,73E+00	2,74E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	5,44E-02	1,15E+00	2,50E+00	1,19E-01	-2,50E+00
PENRE	MJ	0,00E+00	1,14E+00	3,72E+01	3,84E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,07E+01	9,72E+01	2,91E+01	1,56E+01	-2,91E+01
PENRM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	0,00E+00	1,14E+00	3,76E+01	3,87E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,07E+01	9,72E+01	3,43E+01	1,56E+01	-3,43E+01
SM	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m3	0,00E+00	1,22E-04	3,08E-01	3,08E-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	5,18E-04	1,12E-02	-7,13E-01	1,57E-02	7,13E-01

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
BBCpr	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





GRANULATS DU HAINAUT

CALCULATION RULES (PART 1)

PRODUCT STAGE (A1-A3)

All input flows (e.g. raw materials, transportation, energy use, packaging, etc.) and output flows (e.g. production waste) are considered in this LCA. The total neglected input flows do therefore not exceed the limit of 5% of energy use and mass.

END OF LIFE STAGE (C1-C4)

All input flows (e.g. energy use for demolition or disassembly, transport to waste processing, etc.) and output flows (e.g. end-of-life waste processing of the product, etc.) are considered in this LCA. The total neglected input flows do therefore not exceed the limit of 5% of energy use and mass.

BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARY (D)

All benefits and loads beyond the system boundary resulting from reusable products, recyclable materials and/or useful energy carriers leaving the product system are considered in this LCA. Allocation: Co-product allocation is applicable according NEN-EN 15804. The production of armour stone is considered a co-product of the production of Blue hardstone based on economic values.

The profile of capital goods are not further allocated, regarding to quarry infrastructure and recultivation. The contribution of these processes are relatively low.

DATA COLLECTION & REFERENCE PERIOD is 2024.

DATA QUALITY

All collected data are received first hand from the manufacturer and represents the actual situation in the quarry. The NMD Determination Method demands a minimum period of 1 year of production information. Further, production information used cannot be older than the period of five years.

With this it meets the requirements regarding the technological representivity of the production proces as stated in the NMD Determination Method

POWER MIX

Standard use.[E0066] (ei3.6) Electricity (BE) - medium voltage (1kV - 24kV).

Global Warming Potential total (GWP-total)kg CO₂ eq. 0.246338

Armourstone Granulats du Hainaut S.A.

DECLARATION OF SVHC

The product does not contain any substances from the candidate list of substances of very high concern for authorisation (SVHC).





GRANULATS DU HAINAUT

REFERENCES

ISO 14040

ISO 14040:2006-10, Environmental management - Life cycle assessment - Principles and framework; EN ISO 14040:2006

ISO 14044

ISO 14044:2006-10, Environmental management - Life cycle assessment - Requirements and guidelines; EN ISO 14044:2006

ISO 14025

ISO 14025:2011-10, Environmental labels and declarations — Type III environmental declarations — Principles and procedures

EN 15804+A1

EN 15804+A1: 2013: Sustainability of construction works — Environmental Product Declarations — Core rules for the product category of construction products

EN 15804+A2

EN 15804+A2: 2019: Sustainability of construction works — Environmental Product Declarations — Core rules for the product category of construction products

NMD-verification protocol

NMD-Toetsingsprotocol Opname data in de Nationale Milieudatabase, Versie 1.2, August 2024

NMD Determination method

Bepalingsmethode Milieuprestatie Bouwwerken, Berekeningswijze voor het bepalen van de milieuprestatie van bouwwerken gedurende hun gehele levensduur, gebaseerd op de EN 15804+A2, versie 1.2, January 2025

Ecoinvent

ecoinvent Version 3.6, September 2019

R<THINK characterization method

ecoinvent 3.6: EN 15804+A1 indicators (CML-IA Baseline v3.06), EN 15804+A2 indicators (EF 3.0)

