

vitrogres

ENVIRONMENTAL PRODUCT DECLARATION

PCR 2012:01 Product category rules for preparing an
environmental product declaration for Construction
Products and construction services



Intro

Vitrogres is the leading manufacturer of high-quality glass mosaic that is environmentally friendly and 100% recyclable.

The manufacturing system is completely clean and environmentally friendly because we do not use process water and have cutting-edge electric furnaces that do not generate pollutant waste or gases. The packaging we use is made of recycled cardboard and any waste generated is removed by authorized waste management companies.



Glass Mosaic

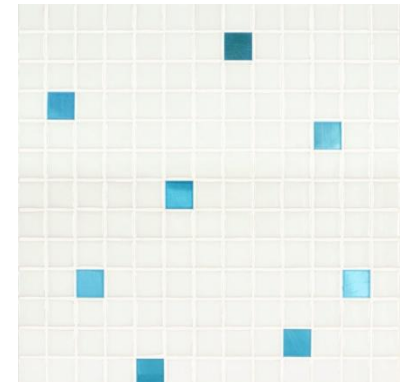
UN-CPC classification code: 37117 “Paving blocks, bricks, tiles and other articles of pressed or moulded glass, of a kind used for building or construction purposes; leaded lights and the like; multicellular or foam glass in blocks, plates or similar forms”.

DECLARED UNIT

1m² of Glass mosaic, PLAIN 06-A and GLACIAR UPSALA-GA references, glued by three different formats: Plastic, Paper and mesh.

Following the rules explained in the “4.11 Adjustment of the EPD format in case of inclusion of several similar products” of the International EPD System General Program instructions 2.1, similar products are presented in the same declaration but using separate columns or tables.

For the purpose of these requirements “similar products” means products covered by the same PCR and produced by the same company with same core process



	Ref.C-206-A								
	Plastic			Paper			Mesh		
Material	%	Weight	Unit	%	Weight	Unit	%	Weight	Unit
Recycled Glass	96,45%	8,16	kg	96,34%	8,16	kg	96,11%	8,16	kg
Colouring	0,71%	0,06	kg	0,71%	0,06	kg	0,71%	0,06	kg
Iridiscent									
Water	1,77%	0,15	kg	1,77%	0,15	kg	1,77%	0,15	kg
Plastic	1,06%	0,09	kg						
Paper				1,18%	0,1	kg			
Mesh							0,82%	0,07	kg
Glue for mesh							0,59%	0,05	kg
Total	100%	8,46	kg	100%	8,47	kg	100%	8,49	kg

	Ref. C-2 UPSALA-GA								
	Plastic			Paper			Mesh		
Material	%	Weight	Unit	%	Weight	Unit	%	Weight	Unit
Recicled Glass	94,99%	8,16	kg	94,88%	8,16	kg	94,66%	8,16	kg
Colouring	0,70%	0,06	kg	0,70%	0,06	kg	0,70%	0,06	kg
Iridiscent	1,51%	0,13	kg	1,51%	0,13	kg	1,51%	0,13	kg
Water	1,75%	0,15	kg	1,74%	0,15	kg	1,74%	0,15	kg
Plastic	1,05%	0,09	kg						
Paper				1,16%	0,1	kg			
Mesh							0,81%	0,07	kg
Glue for mesh							0,58%	0,05	kg
Total	100%	8,59	kg	100%	8,6	kg	100%	8,62	kg

	REF. C-206-A PLASTIC				REF. C-206-A PAPER				REF. C-206-A MESH			
ENVIRONMENTAL IMPACT	A1	A2	A3	TOTAL	A1	A2	A3	TOTAL	A1	A2	A3	TOTAL
Global warming (kg CO2 eq.)	2,83	0,218	0,186	3,23	2,83	0,218	0,186	3,23	3,53	0,283	0,186	4
Acidification (kg SO2 eq.)	0,023	0,001	5,88E-04	0,025	0,023	0,001	5,88E-04	0,025	0,026	0,002	5,88E-04	0,028
Eutrofization (kg PO4 eq)	0,005	3,16E-04	2,89E-04	0,006	0,005	3,16E-04	2,89E-04	0,006	0,006	4,07E-04	2,89E-04	0,006
Photochemical oxidation (kg C2H2eq)	0,01	0,001	3,84E-04	0,011	0,01	0,001	3,84E-04	0,011	0,012	0,001	3,84E-04	0,013
Ozone layer depletion (kg CFC-11 eq.)	1,23E-07	4,94E-08	2,64E-08	1,99E-07	1,23E-07	4,94E-08	2,64E-08	1,99E-07	1,19E-07	5,83E-08	2,64E-08	2,03E-07
Abiotic resources depletion (element) (kg Sb eq)	0,02	0,003	0,001	0,024	0,02	0,003	0,001	0,024	0,026	0,003	0,001	0,031
Abiotic resources depletion (fósil) (MJ)	40,317	5,621	2,983	48,92	40,317	5,621	2,983	48,92	53,949	6,569	2,983	63,501
RESOURCES	A1	A2	A3	TOTAL	A1	A2	A3	TOTAL	A1	A2	A3	TOTAL
Primary Renewable Energy(excluding raw materials) ¹	1,57E+01	6,97E-02	5,95E-01	1,63E+01	1,57E+01	6,97E-02	5,95E-01	1,63E+01	1,58E+01	9,12E-02	5,95E-01	1,65E+01
Primary Renewable Energy as raw materials ²	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
Primary Renewable Energy Total ³	1,57E+01	6,97E-02	5,95E-01	1,63E+01	1,57E+01	6,97E-02	5,95E-01	1,63E+01	1,58E+01	9,12E-02	5,95E-01	1,65E+01
Primary Non Renewable Energy(excl. raw materials) ⁴	5,76E+01	6,32E+00	3,15E+00	6,71E+01	5,76E+01	6,32E+00	3,15E+00	6,71E+01	7,32E+01	7,41E+00	3,15E+00	8,38E+01
Primary Non Renewable Energy as raw materials ⁵	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
Primary Non Renewable Total ⁶	5,76E+01	6,32E+00	3,15E+00	6,71E+01	5,76E+01	6,32E+00	3,15E+00	6,71E+01	7,32E+01	7,41E+00	3,15E+00	8,38E+01
Use of secondary material (kg)	8,24E+00	0,00E+00	1,08E-01	8,35E+00	8,24E+00	0,00E+00	1,08E-01	8,35E+00	8,20E+00	0,00E+00	1,08E-01	8,31E+00
Use of renewable secondary fuels (MJ)	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of net fresh water (m3)	2,36E+01	4,00E-01	2,78E-01	2,43E+01	2,36E+01	4,00E-01	2,78E-01	2,43E+01	2,39E+01	5,24E-01	2,78E-01	2,47E+01
OTHERS	A1	A2	A3	TOTAL	A1	A2	A3	TOTAL	A1	A2	A3	TOTAL
Hazardous waste (kg)	4,29E-04	4,41E-04	9,35E-03	1,02E-02	4,29E-04	4,41E-04	9,35E-03	1,02E-02	4,22E-04	4,92E-04	9,35E-03	1,03E-02
Non-hazardous waste (kg)	6,27E-04	8,90E-04	1,20E+00	1,20E+00	6,27E-04	8,90E-04	1,20E+00	1,20E+00	6,00E-04	1,18E-03	1,2	1,20E+00
Radioactive waste	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

- 1: Use of renewable primary energy excluding renewable primary energy resources used as raw materials
2: Primary Energy Renewable Energy) (Use of renewable primary energy resources used as raw materials
3: Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials
4: Use of NON renewable primary energy excluding renewable primary energy resources used as raw materials
5: Use of NON renewable primary energy resources used as raw material
6: Total use of renewable primary energy resources

	REF. C-2 UPSALA-GA-A PLASTIC				REF. C-2 UPSALA-GA-A PAPER				REF. C-2 UPSALA-GA-A MESH			
ENVIRONMENTAL IMPACT	A1	A2	A3	TOTAL	A1	A2	A3	TOTAL	A1	A2	A3	TOTAL
Global warming (kg CO2 eq.)	3,11	0,243	0,186	3,54	3,11	0,243	0,186	3,54	3,81	0,307	0,186	4,31
Acidification (kg SO2 eq.)	0,024	0,001	5,88E-04	0,026	0,024	0,001	5,88E-04	0,026	0,027	0,002	5,88E-04	0,03
Eutrofization (kg PO4 eq)	0,006	3,51E-04	2,89E-04	0,006	0,006	3,51E-04	2,89E-04	0,006	0,006	4,42E-04	2,89E-04	0,007
Photochemical oxidation (kg C2H2eq)	0,014	0,001	3,84E-04	0,015	0,014	0,001	3,84E-04	0,015	0,015	0,001	3,84E-04	0,017
Ozone layer depletion (kg CFC-11 eq.)	1,39E-07	5,28E-08	2,64E-08	2,18E-07	1,39E-07	5,28E-08	2,64E-08	2,18E-07	1,35E-07	6,17E-08	2,64E-08	2,23E-07
Abiotic resources depletion (element) (kg Sb eq)	0,024	0,003	0,001	0,028	0,024	0,003	0,001	0,028	0,03	0,003	0,001	0,035
Abiotic resources depletion (fósil) (MJ)	48,887	5,984	2,983	57,854	48,887	5,984	2,983	57,854	62,519	6,933	2,983	72,435
RESOURCES	A1	A2	A3	TOTAL	A1	A2	A3	TOTAL	A1	A2	A3	TOTAL
Primary Renewable Energy(excluding raw materials) ¹	1,57E+01	1,77E-01	5,95E-01	1,65E+01	1,57E+01	1,77E-01	5,95E-01	1,65E+01	1,59E+01	1,99E-01	5,95E-01	1,67E+01
Primary Renewable Energy as raw materials ²	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
Primary Renewable Energy Total ³	1,57E+01	1,77E-01	5,95E-01	1,65E+01	1,57E+01	1,77E-01	5,95E-01	1,65E+01	1,59E+01	1,99E-01	5,95E-01	1,67E+01
Primary Non Renewable Energy(excl. raw materials) ⁴	7,58E-01	5,85E-01	2,79E-01	1,62E+00	7,58E-01	5,85E-01	2,79E-01	1,62E+00	8,25E+01	1,29E+01	3,15E+00	9,85E+01
Primary Non Renewable Energy as raw materials ⁵	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
Primary Non Renewable Total ⁶	7,58E-01	5,85E-01	2,79E-01	1,62E+00	7,58E-01	5,85E-01	2,79E-01	1,62E+00	8,25E+01	1,29E+01	3,15E+00	9,85E+01
Use of secondary material (kg)	8,24E+00	0,00E+00	1,08E-01	8,35E+00	8,24E+00	0,00E+00	1,08E-01	8,35E+00	8,20E+00	0,00E+00	1,08E-01	8,31E+00
Use of renewable secondary fuels (MJ)	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of net fresh water (m3)	2,39E+01	1,02E+00	2,78E-01	2,52E+01	2,39E+01	1,02E+00	2,78E-01	2,52E+01	2,43E+01	1,14E+00	2,78E-01	2,57E+01
OTHERS	A1	A2	A3	TOTAL	A1	A2	A3	TOTAL	A1	A2	A3	TOTAL
Hazardous waste (kg)	4,51E-04	7,45E-04	9,35E-03	1,05E-02	4,51E-04	7,45E-04	9,35E-03	1,05E-02	4,51E-04	7,45E-04	9,35E-03	1,05E-02
Non-hazardous waste (kg)	6,18E-04	2,63E-03	1,20E+00	1,20E+00	6,18E-04	2,63E-03	1,20E+00	1,20E+00	6,18E-04	2,63E-03	1,2	1,20E+00
Radioactive waste	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

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