Annex 1. Examples of calculation: unit elements with the highest environmental impact of project 1.

Code	URef	Materials in P1	(m³/Uref)	Density (kg/m³)	(kg/Uref)	Source	Assimilated family. Source: Ecoinvent database	Factor CF (t CO_2 eq/kg)	Factor WF (m³/kg)	Factor EE (MJ/kg)
CH45020	m³	CONCRETE HM-25/P/40/I, WITH POLYETHYLENE FIBRES	1.00E+00	2.75E+03	2.75E+03	a	Concrete, normal, at plant + Polypropylene	1.15E-04	1.75E-03	6.99E-01
UP01800	u	PAVER VIBRATED CONCRETE 22X11X8 cm	1.94E-03	2.55E+03	4.94E+00	a	Quarry tile, at plant	2.38E-04	2.19E-03	1.39E+00
UA02315	m	VITRIFIED CLAY PIPE 300 DN	4.15E+00	2.20E+01	9.13E+01	a	Quarry tile, at plant	8.25E-04	1.50E-02	1.53E+01
UA02320	m	VITRIFIED CLAY PIPE 400 DN	6.64E+00	2.20E+01	1.46E+02	a	Ceramic tiles, at regional storage	8.25E-04	1.50E-02	1.53E+01
UA05315	u	JUNCTION VITRIFIED CLAY PIECE 300 mm DN	2.55E+00	2.20E+01	5.60E+01	a	Ceramic tiles, at regional storage	8.25E-04	1.50E-02	1.53E+01
UA05320	u	JUNCTION VITRIFIED CLAY PIECE 400 mm DN	5.23E+00	2.20E+01	1.15E+02	a	Ceramic tiles, at regional storage	8.25E-04	1.50E-02	1.53E+01
UA05415	u	TUMBLING VITRIFIED CLAY PIECE 300 mm DN	2.05E+00	2.20E+01	4.50E+01	a	Ceramic tiles, at regional storage	8.25E-04	1.50E-02	1.53E+01
UA05420	u	TUMBLING VITRIFIED CLAY PIECE 400 mm DN	4.32E+00	2.20E+01	9.50E+01	a	Ceramic tiles, at regional storage	8.25E-04	1.50E-02	1.53E+01
UA05515	u	FLANGE VITRIFIED CLAY PIECE 300 mm DN	1.41E+00	2.20E+01	3.10E+01	a	Ceramic tiles, at regional storage	8.25E-04	1.50E-02	1.53E+01
UA05520	u	FLANGE VITRIFIED CLAY PIECE 400 mm DN	2.77E+00	2.20E+01	6.10E+01	a	Ceramic tiles, at regional storage	8.25E-04	1.50E-02	1.53E+01
UA05615	m	CHANNEL VITRIFIED CLAY PIECE 300 mm DN	1.41E+00	2.20E+01	3.10E+01	a	Ceramic tiles, at regional storage	8.25E-04	1.50E-02	1.53E+01
UA05620	m	CHANNEL VITRIFIED CLAY PIECE 400 mm DN	2.18E+00	2.20E+01	4.80E+01	a	Ceramic tiles, at regional storage	8.25E-04	1.50E-02	1.53E+01
UP03820	m	CURB CONCRETE 14/17X28X100 cm	4.20E-02	2.55E+03	1.07E+02	a	Quarry tile, at plant	2.28E-04	3.56E-03	1.74E+00
AW00100	m³	ARTIFICIAL AGGREGATES	1.00E+00	2.04E+03	2.04E+03	a	Gravel, crushed, at mine	1.11E-05	1.20E-03	1.61E-01
US10100	m	DUCTILE CAST IRON PIPE 80 mm DN	-	-	1.01E+01	b	Cast iron, at plant	9.85E-04	1.53E-02	1.67E+01
US10103	m	DUCTILE CAST IRON PIPE 100 mm DN	-	-	1.26E+01	b	Cast iron, at plant	9.85E-04	1.53E-02	1.67E+01
US10109	m	DUCTILE CAST IRON PIPE 150 mm DN	-	-	1.89E+01	b	Cast iron, at plant	9.85E-04	1.53E-02	1.67E+01
AP00100	m³	SIFTED CHALKY SAND	1.00E+00	1.60E+03	1.60E+03	a	Limestone, at mine/crushing	9.09E-06	1.00E-04	5.25E-02

a. Catalogue of Construction Solutions of the Technical Building Code (IETc, 2010) [57]
b. Manufacturer catalogue of building materials