

This appendix refers to the EPD MD-20045-EN, developed according to EN15804+A2:2019. Results in the appendix communicates LCA results in the format described in EN15804+A1:2013, in order to accommodate a need in the transition period between the two standard revisions. The appendix cannot stand alone, as the reference EPD describes the basis of the assessment.

### Cembrit Solid

ENVIRONMENTAL IMPACTS PER 1 m <sup>2</sup> Cembrit Solid										
Parameter	Unit	A1-A3	A4	A5	B1 – B7	C1	C2	C3	C4	D
GWP	[kg CO <sub>2</sub> -eq.]	1.61E+01	1.46E+00	1.09E-01	0.00E+00	8.70E-03	1.07E-01	0.00E+00	1.96E-01	-4.49E-01
ODP	[kg CFC11-eq.]	3.25E-08	3.64E-16	6.30E-17	0.00E+00	2.17E-18	2.67E-17	0.00E+00	1.08E-15	-2.22E-15
AP	[kg SO <sub>2</sub> -eq.]	3.18E-02	1.24E-03	4.41E-05	0.00E+00	3.17E-05	9.37E-05	0.00E+00	1.24E-03	-9.44E-04
EP	[kg PO <sub>4</sub> <sup>3-</sup> -eq.]	5.35E-03	2.27E-04	1.01E-05	0.00E+00	7.38E-06	1.75E-05	0.00E+00	1.40E-04	-8.49E-05
POCP	[kg ethene-eq.]	3.04E-03	-1.37E-06	4.14E-06	0.00E+00	3.06E-06	-1.31E-06	0.00E+00	9.43E-05	-7.24E-05
ADPE	[kg Sb-eq.]	2.96E-05	1.21E-07	1.36E-09	0.00E+00	7.20E-10	8.85E-09	0.00E+00	1.97E-08	-6.43E-08
ADPF	[MJ]	1.30E+02	1.97E+01	1.58E-01	0.00E+00	1.18E-01	1.45E+00	0.00E+00	2.77E+00	-6.09E+00
Caption	GWP = Global warming potential; ODP = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non fossil resources; ADPF = Abiotic depletion potential for fossil resources									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.									

RESSOURCE USE PER 1 m <sup>2</sup> Cembrit Solid										
Parameter	Unit	A1-A3	A4	A5	B1 – B7	C1	C2	C3	C4	D
PERE	[MJ]	2.36E+01	1.15E+00	1.80E-02	0.00E+00	6.86E-03	8.43E-02	0.00E+00	3.74E-01	-1.01E+00
PERM	[MJ]	9.60E+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
PERT	[MJ]	3.32E+01	1.15E+00	1.80E-02	0.00E+00	6.86E-03	8.43E-02	0.00E+00	3.74E-01	-1.01E+00
PENRE	[MJ]	1.59E+02	1.99E+01	1.63E-01	0.00E+00	1.19E-01	1.46E+00	0.00E+00	2.86E+00	-8.40E+00
PENRM	[MJ]	1.92E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	[MJ]	1.79E+02	1.99E+01	1.63E-01	0.00E+00	1.19E-01	1.46E+00	0.00E+00	2.86E+00	-8.40E+00
SM	[kg]	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
RSF	[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
NRSF	[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
FW	[m <sup>3</sup> ]	5.05E-01	1.34E-03	2.62E-04	0.00E+00	7.99E-06	9.82E-05	0.00E+00	7.20E-04	-1.39E-03
Caption	PERE = Use of renewable primary energy excluding renewable primary energy resources 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 excluding non renewable primary 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 material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Use of net fresh water									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.									

WASTE CATEGORIES AND OUTPUT FLOWS PER PER 1 m <sup>2</sup> Cembrit Solid										
Parameter	Unit	A1-A3	A4	A5	B1 – B7	C1	C2	C3	C4	D
HWD	[kg]	2.15E-07	9.22E-07	5.66E-09	0.00E+00	5.51E-09	6.77E-08	0.00E+00	4.35E-08	-3.92E-09
NHWD	[kg]	4.62E+00	3.16E-03	9.33E-03	0.00E+00	1.89E-05	2.32E-04	0.00E+00	1.44E+01	-4.64E-03
RWD	[kg]	1.13E-02	3.68E-05	1.94E-06	0.00E+00	2.19E-07	2.70E-06	0.00E+00	3.25E-05	-8.93E-04
CRU	[kg]	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
MFR	[kg]	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
MER	[kg]	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
EEE	[MJ]	1.66E+00	0.00E+00	1.81E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EET	[MJ]	3.12E+00	0.00E+00	4.04E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.									

### Cembrit Cover

ENVIRONMENTAL IMPACTS PER 1 m <sup>2</sup> Cembrit Cover										
Parameter	Unit	A1-A3	A4	A5	B1 – B7	C1	C2	C3	C4	D
GWP	[kg CO <sub>2</sub> -eq.]	1.62E+01	1.46E+00	1.10E-01	0.00E+00	8.69E-03	1.07E-01	0.00E+00	1.95E-01	-4.24E-01
ODP	[kg CFC11-eq.]	3.23E-08	3.64E-16	6.33E-17	0.00E+00	2.17E-18	2.67E-17	0.00E+00	1.08E-15	-2.13E-15
AP	[kg SO <sub>2</sub> -eq.]	3.21E-02	1.24E-03	4.44E-05	0.00E+00	3.16E-05	9.36E-05	0.00E+00	1.24E-03	-8.91E-04
EP	[kg PO <sub>4</sub> <sup>3-</sup> -eq.]	5.38E-03	2.27E-04	1.01E-05	0.00E+00	7.37E-06	1.74E-05	0.00E+00	1.40E-04	-8.04E-05
POCP	[kg ethene-eq.]	3.07E-03	-1.37E-06	4.16E-06	0.00E+00	3.06E-06	-1.31E-06	0.00E+00	9.42E-05	-6.84E-05
ADPE	[kg Sb-eq.]	2.95E-05	1.21E-07	1.37E-09	0.00E+00	7.20E-10	8.85E-09	0.00E+00	1.97E-08	-6.08E-08
ADPF	[MJ]	1.32E+02	1.97E+01	1.58E-01	0.00E+00	1.18E-01	1.45E+00	0.00E+00	2.77E+00	-5.75E+00
Caption	GWP = Global warming potential; ODP = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non fossil resources; ADPF = Abiotic depletion potential for fossil resources									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.									

RESSOURCE USE PER 1 m <sup>2</sup> Cembrít Cover										
Parameter	Unit	A1-A3	A4	A5	B1 – B7	C1	C2	C3	C4	D
PERE	[MJ]	2.43E+01	1.15E+00	1.81E-02	0.00E+00	6.85E-03	8.42E-02	0.00E+00	3.74E-01	-9.64E-01
PERM	[MJ]	9.60E+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
PERT	[MJ]	3.39E+01	1.15E+00	1.81E-02	0.00E+00	6.85E-03	8.42E-02	0.00E+00	3.74E-01	-9.64E-01
PENRE	[MJ]	1.62E+02	1.99E+01	1.64E-01	0.00E+00	1.19E-01	1.46E+00	0.00E+00	2.86E+00	-7.92E+00
PENRM	[MJ]	1.92E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	[MJ]	1.81E+02	1.99E+01	1.64E-01	0.00E+00	1.19E-01	1.46E+00	0.00E+00	2.86E+00	-7.92E+00
SM	[kg]	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
RSF	[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
NRSF	[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
FW	[m <sup>3</sup> ]	5.68E-01	1.34E-03	2.66E-04	0.00E+00	7.99E-06	9.82E-05	0.00E+00	7.20E-04	-1.32E-03
Caption	PERE = Use of renewable primary energy excluding renewable primary energy resources 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 excluding non renewable primary 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 material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Use of net fresh water									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.									

WASTE CATEGORIES AND OUTPUT FLOWS PER 1 m <sup>2</sup> Cembrít Cover										
Parameter	Unit	A1-A3	A4	A5	B1 – B7	C1	C2	C3	C4	D
HWD	[kg]	2.24E-07	9.22E-07	5.66E-09	0.00E+00	5.50E-09	6.76E-08	0.00E+00	4.35E-08	-3.71E-09
NHWD	[kg]	4.65E+00	3.16E-03	9.36E-03	0.00E+00	1.89E-05	2.32E-04	0.00E+00	1.44E+01	-4.46E-03
RWD	[kg]	1.14E-02	3.67E-05	1.96E-06	0.00E+00	2.19E-07	2.70E-06	0.00E+00	3.25E-05	-8.41E-04
CRU	[kg]	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
MFR	[kg]	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
MER	[kg]	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
EEE	[MJ]	1.56E+00	0.00E+00	1.83E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EET	[MJ]	2.93E+00	0.00E+00	4.08E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.									

## Cembrit Patina Original

ENVIRONMENTAL IMPACTS PER 1 m <sup>2</sup> Cembrit Patina Original										
Parameter	Unit	A1-A3	A4	A5	B1 – B7	C1	C2	C3	C4	D
GWP	[kg CO <sub>2</sub> -eq.]	1.07E+01	1.23E+00	1.46E-01	0.00E+00	7.32E-03	9.05E-02	0.00E+00	1.65E-01	-3.36E-01
ODP	[kg CFC11-eq.]	6.71E-08	3.07E-16	8.68E-17	0.00E+00	1.83E-18	2.25E-17	0.00E+00	9.06E-16	-1.92E-15
AP	[kg SO <sub>2</sub> -eq.]	2.56E-02	1.04E-03	4.39E-05	0.00E+00	2.67E-05	7.89E-05	0.00E+00	1.05E-03	-6.93E-04
EP	[kg PO <sub>4</sub> <sup>3-</sup> -eq.]	5.09E-03	1.91E-04	9.94E-06	0.00E+00	6.21E-06	1.47E-05	0.00E+00	1.18E-04	-6.52E-05
POCP	[kg ethene-eq.]	1.76E-03	-1.16E-06	4.07E-06	0.00E+00	2.58E-06	-1.11E-06	0.00E+00	7.94E-05	-5.41E-05
ADPE	[kg Sb-eq.]	7.37E-05	1.02E-07	1.50E-09	0.00E+00	6.07E-10	7.46E-09	0.00E+00	1.66E-08	-4.88E-08
ADPF	[MJ]	9.67E+01	1.66E+01	1.55E-01	0.00E+00	9.93E-02	1.22E+00	0.00E+00	2.33E+00	-4.48E+00
Caption	GWP = Global warming potential; ODP = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non fossil resources; ADPF = Abiotic depletion potential for fossil resources									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.									

RESSOURCE USE PER 1 m <sup>2</sup> Cembrit Patina Original										
Parameter	Unit	A1-A3	A4	A5	B1 – B7	C1	C2	C3	C4	D
PERE	[MJ]	1.82E+01	9.67E-01	2.13E-02	0.00E+00	5.78E-03	7.10E-02	0.00E+00	3.15E-01	-8.63E-01
PERM	[MJ]	9.60E+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
PERT	[MJ]	2.78E+01	9.67E-01	2.13E-02	0.00E+00	5.78E-03	7.10E-02	0.00E+00	3.15E-01	-8.63E-01
PENRE	[MJ]	1.24E+02	1.68E+01	1.62E-01	0.00E+00	1.00E-01	1.23E+00	0.00E+00	2.41E+00	-6.14E+00
PENRM	[MJ]	1.92E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	[MJ]	1.43E+02	1.68E+01	1.62E-01	0.00E+00	1.00E-01	1.23E+00	0.00E+00	2.41E+00	-6.14E+00
SM	[kg]	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
RSF	[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
NRSF	[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
FW	[m <sup>3</sup> ]	3.62E-01	1.13E-03	3.58E-04	0.00E+00	6.73E-06	8.27E-05	0.00E+00	6.07E-04	-1.11E-03
Caption	PERE = Use of renewable primary energy excluding renewable primary energy resources 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 excluding non renewable primary 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 material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Use of net fresh water									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.									

WASTE CATEGORIES AND OUTPUT FLOWS PER 1 m <sup>2</sup> Cembrit Patina Original										
Parameter	Unit	A1-A3	A4	A5	B1 – B7	C1	C2	C3	C4	D
HWD	[kg]	4.99E-07	7.77E-07	4.86E-09	0.00E+00	4.64E-09	5.70E-08	0.00E+00	3.67E-08	-3.02E-09
NHWD	[kg]	3.97E+00	2.66E-03	1.30E-02	0.00E+00	1.59E-05	1.95E-04	0.00E+00	1.21E+01	-4.15E-03
RWD	[kg]	1.01E-02	3.10E-05	2.57E-06	0.00E+00	1.85E-07	2.27E-06	0.00E+00	2.74E-05	-6.42E-04
CRU	[kg]	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
MFR	[kg]	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
MER	[kg]	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
EEE	[MJ]	1.13E+00	0.00E+00	2.52E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EET	[MJ]	2.11E+00	0.00E+00	5.63E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.									

### Cembrit Patina Inline

ENVIRONMENTAL IMPACTS PER 1 m <sup>2</sup> Cembrit Patina Inline										
Parameter	Unit	A1-A3	A4	A5	B1 – B7	C1	C2	C3	C4	D
GWP	[kg CO <sub>2</sub> -eq.]	9.80E+00	1.20E+00	1.42E-01	0.00E+00	7.12E-03	8.80E-02	0.00E+00	1.60E-01	-3.29E-01
ODP	[kg CFC11-eq.]	6.17E-08	2.98E-16	8.44E-17	0.00E+00	1.78E-18	2.19E-17	0.00E+00	8.82E-16	-1.87E-15
AP	[kg SO <sub>2</sub> -eq.]	2.29E-02	1.01E-03	4.27E-05	0.00E+00	2.59E-05	7.68E-05	0.00E+00	1.02E-03	-6.79E-04
EP	[kg PO <sub>4</sub> <sup>3-</sup> -eq.]	4.65E-03	1.86E-04	9.67E-06	0.00E+00	6.04E-06	1.43E-05	0.00E+00	1.15E-04	-6.38E-05
POCP	[kg ethene-eq.]	1.72E-03	-1.13E-06	3.96E-06	0.00E+00	2.51E-06	-1.08E-06	0.00E+00	7.73E-05	-5.30E-05
ADPE	[kg Sb-eq.]	6.72E-05	9.88E-08	1.46E-09	0.00E+00	5.90E-10	7.25E-09	0.00E+00	1.62E-08	-4.77E-08
ADPF	[MJ]	8.39E+01	1.62E+01	1.51E-01	0.00E+00	9.66E-02	1.19E+00	0.00E+00	2.27E+00	-4.39E+00
Caption	GWP = Global warming potential; ODP = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non fossil resources; ADPF = Abiotic depletion potential for fossil resources									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.									

RESSOURCE USE PER 1 m <sup>2</sup> Cembrit Patina Inline										
Parameter	Unit	A1-A3	A4	A5	B1 – B7	C1	C2	C3	C4	D
PERE	[MJ]	1.58E+01	9.41E-01	2.07E-02	0.00E+00	5.62E-03	6.91E-02	0.00E+00	3.06E-01	-8.43E-01
PERM	[MJ]	9.60E+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
PERT	[MJ]	2.54E+01	9.41E-01	2.07E-02	0.00E+00	5.62E-03	6.91E-02	0.00E+00	3.06E-01	-8.43E-01
PENRE	[MJ]	1.07E+02	1.63E+01	1.58E-01	0.00E+00	9.76E-02	1.20E+00	0.00E+00	2.34E+00	-6.01E+00
PENRM	[MJ]	1.92E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	[MJ]	1.26E+02	1.63E+01	1.58E-01	0.00E+00	9.76E-02	1.20E+00	0.00E+00	2.34E+00	-6.01E+00
SM	[kg]	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
RSF	[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
NRSF	[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
FW	[m <sup>3</sup> ]	3.03E-01	1.10E-03	3.48E-04	0.00E+00	6.55E-06	8.05E-05	0.00E+00	5.90E-04	-1.09E-03
Caption	PERE = Use of renewable primary energy excluding renewable primary energy resources 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 excluding non renewable primary 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 material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Use of net fresh water									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.									

WASTE CATEGORIES AND OUTPUT FLOWS PER 1 m <sup>2</sup> Cembrit Patina Inline										
Parameter	Unit	A1-A3	A4	A5	B1 – B7	C1	C2	C3	C4	D
HWD	[kg]	4.56E-07	7.56E-07	4.72E-09	0.00E+00	4.51E-09	5.55E-08	0.00E+00	3.57E-08	-2.95E-09
NHWD	[kg]	3.84E+00	2.59E-03	1.27E-02	0.00E+00	1.55E-05	1.90E-04	0.00E+00	1.18E+01	-4.06E-03
RWD	[kg]	8.41E-03	3.01E-05	2.50E-06	0.00E+00	1.80E-07	2.21E-06	0.00E+00	2.66E-05	-6.28E-04
CRU	[kg]	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
MFR	[kg]	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
MER	[kg]	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
EEE	[MJ]	1.10E+00	0.00E+00	2.45E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EET	[MJ]	2.07E+00	0.00E+00	5.47E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.									

## Cembrit Patina Rough

ENVIRONMENTAL IMPACTS PER 1 m <sup>2</sup> Cembrit Patina Rough										
Parameter	Unit	A1-A3	A4	A5	B1 – B7	C1	C2	C3	C4	D
GWP	[kg CO <sub>2</sub> -eq.]	9.92E+00	1.23E+00	1.46E-01	0.00E+00	7.29E-03	9.01E-02	0.00E+00	1.64E-01	-1.10E-01
ODP	[kg CFC11-eq.]	6.23E-08	3.05E-16	8.64E-17	0.00E+00	1.82E-18	2.24E-17	0.00E+00	9.02E-16	-9.91E-16
AP	[kg SO <sub>2</sub> -eq.]	2.47E-02	1.04E-03	4.37E-05	0.00E+00	2.65E-05	7.86E-05	0.00E+00	1.04E-03	-2.06E-04
EP	[kg PO <sub>4</sub> <sup>3-</sup> -eq.]	4.84E-03	1.91E-04	9.90E-06	0.00E+00	6.18E-06	1.46E-05	0.00E+00	1.17E-04	-2.38E-05
POCP	[kg ethene-eq.]	1.70E-03	-1.15E-06	4.05E-06	0.00E+00	2.56E-06	-1.10E-06	0.00E+00	7.91E-05	-1.75E-05
ADPE	[kg Sb-eq.]	6.89E-05	1.01E-07	1.50E-09	0.00E+00	6.04E-10	7.42E-09	0.00E+00	1.66E-08	-1.68E-08
ADPF	[MJ]	9.29E+01	1.66E+01	1.54E-01	0.00E+00	9.88E-02	1.21E+00	0.00E+00	2.32E+00	-1.35E+00
Caption	GWP = Global warming potential; ODP = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non fossil resources; ADPF = Abiotic depletion potential for fossil resources									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.									

RESSOURCE USE PER 1 m <sup>2</sup> Cembrit Patina Rough										
Parameter	Unit	A1-A3	A4	A5	B1 – B7	C1	C2	C3	C4	D
PERE	[MJ]	1.73E+01	9.63E-01	2.12E-02	0.00E+00	5.75E-03	7.07E-02	0.00E+00	3.14E-01	-4.38E-01
PERM	[MJ]	9.60E+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
PERT	[MJ]	2.69E+01	9.63E-01	2.12E-02	0.00E+00	5.75E-03	7.07E-02	0.00E+00	3.14E-01	-4.38E-01
PENRE	[MJ]	1.20E+02	1.67E+01	1.61E-01	0.00E+00	9.98E-02	1.23E+00	0.00E+00	2.40E+00	-1.79E+00
PENRM	[MJ]	1.92E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	[MJ]	1.40E+02	1.67E+01	1.61E-01	0.00E+00	9.98E-02	1.23E+00	0.00E+00	2.40E+00	-1.79E+00
SM	[kg]	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
RSF	[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
NRSF	[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
FW	[m <sup>3</sup> ]	3.58E-01	1.12E-03	3.57E-04	0.00E+00	6.70E-06	8.24E-05	0.00E+00	6.04E-04	-4.70E-04
Caption	PERE = Use of renewable primary energy excluding renewable primary energy resources 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 excluding non renewable primary 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 material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Use of net fresh water									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.									

WASTE CATEGORIES AND OUTPUT FLOWS PER 1 m<sup>2</sup> Cembrit Patina Rough

Parameter	Unit	A1-A3	A4	A5	B1 – B7	C1	C2	C3	C4	D
HWD	[kg]	4.72E-07	7.73E-07	4.83E-09	0.00E+00	4.62E-09	5.67E-08	0.00E+00	3.65E-08	-1.11E-09
NHWD	[kg]	3.76E+00	2.65E-03	1.30E-02	0.00E+00	1.58E-05	1.94E-04	0.00E+00	1.20E+01	-2.34E-03
RWD	[kg]	1.03E-02	3.08E-05	2.56E-06	0.00E+00	1.84E-07	2.26E-06	0.00E+00	2.73E-05	-1.70E-04
CRU	[kg]	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
MFR	[kg]	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
MER	[kg]	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
EEE	[MJ]	1.95E-01	0.00E+00	2.50E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EET	[MJ]	3.65E-01	0.00E+00	5.60E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.									

## Cembrit Deco

ENVIRONMENTAL IMPACTS PER 1 m<sup>2</sup> Cembrit Deco

Parameter	Unit	A1-A3	A4	A5	B1 – B7	C1	C2	C3	C4	D
GWP	[kg CO <sub>2</sub> -eq.]	9.99E+00	1.23E+00	1.50E-01	0.00E+00	7.32E-03	9.04E-02	0.00E+00	1.65E-01	-3.32E-01
ODP	[kg CFC11-eq.]	6.44E-08	3.07E-16	8.90E-17	0.00E+00	1.83E-18	2.25E-17	0.00E+00	9.06E-16	-1.91E-15
AP	[kg SO <sub>2</sub> -eq.]	2.56E-02	1.04E-03	4.43E-05	0.00E+00	2.66E-05	7.89E-05	0.00E+00	1.05E-03	-6.83E-04
EP	[kg PO <sub>4</sub> <sup>3-</sup> -eq.]	4.91E-03	1.91E-04	1.00E-05	0.00E+00	6.21E-06	1.47E-05	0.00E+00	1.18E-04	-6.45E-05
POCP	[kg ethene-eq.]	1.74E-03	-1.16E-06	4.11E-06	0.00E+00	2.57E-06	-1.11E-06	0.00E+00	7.94E-05	-5.34E-05
ADPE	[kg Sb-eq.]	6.92E-05	1.02E-07	1.53E-09	0.00E+00	6.06E-10	7.45E-09	0.00E+00	1.66E-08	-4.82E-08
ADPF	[MJ]	8.38E+01	1.66E+01	1.56E-01	0.00E+00	9.92E-02	1.22E+00	0.00E+00	2.33E+00	-4.42E+00
Caption	GWP = Global warming potential; ODP = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non fossil resources; ADPF = Abiotic depletion potential for fossil resources									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.									



RESSOURCE USE PER 1 m <sup>2</sup> Cembrit Deco										
Parameter	Unit	A1-A3	A4	A5	B1 – B7	C1	C2	C3	C4	D
PERE	[MJ]	1.78E+01	9.67E-01	2.17E-02	0.00E+00	5.77E-03	7.09E-02	0.00E+00	3.15E-01	-8.61E-01
PERM	[MJ]	9.60E+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
PERT	[MJ]	2.74E+01	9.67E-01	2.17E-02	0.00E+00	5.77E-03	7.09E-02	0.00E+00	3.15E-01	-8.61E-01
PENRE	[MJ]	1.11E+02	1.68E+01	1.63E-01	0.00E+00	1.00E-01	1.23E+00	0.00E+00	2.40E+00	-6.05E+00
PENRM	[MJ]	1.92E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	[MJ]	1.30E+02	1.68E+01	1.63E-01	0.00E+00	1.00E-01	1.23E+00	0.00E+00	2.40E+00	-6.05E+00
SM	[kg]	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
RSF	[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
NRSF	[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
FW	[m <sup>3</sup> ]	3.59E-01	1.13E-03	3.67E-04	0.00E+00	6.72E-06	8.27E-05	0.00E+00	6.06E-04	-1.10E-03
Caption	PERE = Use of renewable primary energy excluding renewable primary energy resources 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 excluding non renewable primary 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 material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Use of net fresh water									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.									

WASTE CATEGORIES AND OUTPUT FLOWS PER 1 m <sup>2</sup> Cembrit Deco										
Parameter	Unit	A1-A3	A4	A5	B1 – B7	C1	C2	C3	C4	D
HWD	[kg]	4.73E-07	7.76E-07	4.86E-09	0.00E+00	4.63E-09	5.70E-08	0.00E+00	3.66E-08	-2.98E-09
NHWD	[kg]	3.94E+00	2.66E-03	1.34E-02	0.00E+00	1.59E-05	1.95E-04	0.00E+00	1.21E+01	-4.16E-03
RWD	[kg]	1.00E-02	3.09E-05	2.64E-06	0.00E+00	1.85E-07	2.27E-06	0.00E+00	2.74E-05	-6.31E-04
CRU	[kg]	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
MFR	[kg]	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
MER	[kg]	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
EEE	[MJ]	1.10E+00	0.00E+00	2.58E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EET	[MJ]	2.07E+00	0.00E+00	5.77E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.									

Checked and approved by



Ninkie Bendtsen  
Third party verifier of MD-20045-EN



Martha Katrine Sørensen  
EPD Danmark