

Environmental Profile

This LCA is calculated according to: ISO 14044, ISO 14040 and EN 15804

Ecochain v4.3.1



Product: Holcim Gloopingsband 80/150x400x1000
Unit: 1 stuk(s)
Manufacturer: Holcim Coastal Alphen a/d Rijn

Holcim Gloopingsband 80/150x400x1000, 1 stuk, per strekkende meter, over de levensduur van 100 jaar (met eenmalig hergebruik na 50 jaar). Toepassing in GWW.

LCA standard: NMD Bepalingsmethode 1.2 (2025) (obv Ecoinvent 3.6)
Standard database: Dutch - Nationale Milieudatabase v3.8 (obv Ecoinvent 3.6)
Externally verified: Yes
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Verifier: Tim Mol

“De methodologie en dataverzameling zoals beschreven in het onderliggende LCA rapport voldoet aan de eisen van de “Bepalingsmethode Milieuprestatie Bouwwerken” versie 1.2 van december 2024 en de onderliggende normen ISO 14040, ISO 14044 en NEN-EN 15804.”

The LCA background information and project dossier have been registered in the online Ecochain application in the account Holcim Coastal Alphen a/d Rijn (2023). (☑ = module declared, MND = module not declared).

A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
☑	☑	☑	☑	☑	MND	MND	MND	MND	MND	MND	MND	☑	☑	☑	☑	☑

Product stage			Use stage							End-of-Life stage		
A1 Raw material supply A2 Transport A3 Manufacturing			B1 Use B2 Maintenance B3 Repair B4 Replacement B5 Refurbishment B6 Operational energy use B7 Operational water use							C1 De-construction demolition C2 Transport C3 Waste processing C4 Disposal		
Construction process stage			Benefits and loads beyond the system boundaries									
A4 Transport gate to site A5 Assembly / Construction installation process			D Reuse- Recovery- Recycling- potential									

Environmental impacts and parameters

MKI A1 = Environmental Costs Indicator (MKI A1) [euro]; **ADPE** = Abiotic depletion potential for non-fossil resources [kg Sb-eq]; **ADPF** = Abiotic depletion potential for fossil resources [kg Sb-eq]; **GWP** = Global warming potential [kg CO2-eq]; **ODP** = Depletion potential of the stratospheric ozone layer [kg CFC-11-eq]; **POCP** = Formation potential of tropospheric ozone photochemical oxidants [kg ethene-eq]; **AP** = Acidification potential of land and water [kg SO2-eq]; **EP** = Eutrophication potential [kg PO4 3--eq]; **HTP** = Human toxicity potential [kg 1,4-DB-eq]; **FAETP** = Freshwater aquatic ecotoxicity potential [kg 1,4-DB-eq]; **MAETP** = Marine aquatic ecotoxicity potential [kg 1,4-DB-eq]; **TETP** = Terrestrial ecotoxicity potential [kg 1,4-DB-eq]; **MKI A2 (obv EF 3.0)** = Environmental Costs Indicator (MKI A2 obv EF 3.0) [euro]; **GWP-total** = EF Climate change [kg CO2 eq]; **GWP-f** = EF Climate change - Fossil [kg CO2 eq]; **GWP-b** = EF Climate change - Biogenic [kg CO2 eq]; **GWP-luluc** = EF Climate change - Land use and LU change [kg CO2 eq]; **ODP** = EF Ozone depletion [kg CFC11 eq]; **AP** = EF Acidification [mol H+ eq]; **EP-fw** = EF Eutrophication, freshwater [kg P eq]; **EP-m** = EF Eutrophication, marine [kg N eq]; **EP-T** = EF Eutrophication, terrestrial [mol N eq]; **POCP** = EF Photochemical ozone formation [kg NMVOC eq]; **ADP-mm** = EF Resource use, minerals and metals [kg Sb eq]; **ADP-f** = EF Resource use, fossils [MJ]; **WDP** = EF Water use [m3 depriv.]; **PM** = EF Particulate matter [disease inc.]; **IR** = EF Ionising radiation [kBq U-235 eq]; **ETP-fw** = EF Ecotoxicity, freshwater [CTUe]; **HTP-c** = EF Human toxicity, cancer [CTUh]; **HTP-nc** = EF Human toxicity, non-cancer [CTUh]; **SQP** = EF Land use [Pt]; **PERE** = Use of renewable primary energy excluding renewable primary energy resources used as raw materials [MJ]; **PERM** = Use of renewable primary energy resources used as raw materials [MJ]; **PERT** = Total use of renewable primary energy resources [MJ]; **PENRE** = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials [MJ]; **PENRM** = Use of non-renewable primary energy resources used as raw materials [MJ]; **PENRT** = Total use of non-renewable primary energy resources [MJ]; **SM** = Use of secondary material [kg]; **RSF** = Use of renewable secondary fuels [MJ]; **NRSF** = Use of non-renewable secondary fuels [MJ]; **FW** = Use of net fresh water [m3]; **HWD** = Hazardous waste disposed [kg]; **NHWD** = Non-hazardous waste disposed [kg]; **RWD** = Radioactive waste disposed [kg]; **CRU** = Components for re-use [kg]; **MFR** = Materials for recycling [kg]; **MER** = Materials for energy recovery [kg]; **EET** = Exported energy thermic [MJ]; **EEE** = Exported energy electric [MJ]

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Results

Environmental impact SBK set 1	Unit	A1	A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D	Total
MKI A1	euro	0.433365	0.112427	0.042055	0.587846	0.157352	0.177698	0.07823	0.051926	0.009929	0.00089	-0.318532	0.745341
ADPE	kg Sb-eq	2.668333E-5	7.669883E-6	2.413484E-6	3.676669E-5	2.819135E-5	1.171976E-5	9.049608E-7	9.303145E-6	2.743601E-7	5.879788E-8	-2.724949E-5	5.996958E-5
ADPF	kg Sb-eq	2.047618E-2	5.816788E-3	4.209366E-3	3.050233E-2	1.221475E-2	1.091263E-2	3.851843E-3	4.030869E-3	6.801794E-4	8.588579E-5	-1.668696E-2	4.559153E-2
GWP	kg CO2-eq	4.999190E+0	9.424649E-1	4.982400E-1	6.439894E+0	1.640865E+0	1.654455E+0	5.839913E-1	5.414853E-1	9.615199E-2	6.305739E-3	-3.428201E+0	7.534947E+0
ODP	kg CFC-11-eq	2.204733E-7	1.354854E-7	6.838462E-8	4.243434E-7	3.108525E-7	1.546001E-7	1.011121E-7	1.025813E-7	1.052502E-8	2.100205E-9	-2.275294E-7	8.785853E-7
POCP	kg ethene-eq	2.479890E-3	5.542615E-4	1.959896E-4	3.230141E-3	1.025499E-3	1.026995E-3	5.945639E-4	3.384146E-4	5.489523E-5	6.716855E-6	-1.761149E-3	4.516077E-3
AP	kg SO2-eq	1.029551E-2	6.707507E-3	1.273620E-3	1.827664E-2	6.060800E-3	7.219933E-3	4.400955E-3	2.000064E-3	4.444372E-4	4.611382E-5	-1.018489E-2	2.826405E-2
EP	kg PO43--eq	1.401396E-3	1.500687E-3	2.412468E-4	3.143329E-3	1.175080E-3	1.361179E-3	1.000421E-3	3.877763E-4	9.902929E-5	8.895288E-6	-1.734809E-3	5.440901E-3
HTP	kg 1,4-DB-eq	1.283023E+0	2.315007E-1	8.725110E-2	1.601775E+0	3.544711E-1	5.114686E-1	2.161837E-1	1.169755E-1	2.284712E-2	2.850141E-3	-8.833984E-1	1.943173E+0
FAETP	kg 1,4-DB-eq	1.340131E-2	5.808862E-3	2.119949E-3	2.133012E-2	1.490442E-2	1.046556E-2	3.009208E-3	4.918457E-3	3.940187E-4	6.764047E-5	-1.191895E-2	4.317047E-2
MAETP	kg 1,4-DB-eq	5.091211E+1	1.845695E+1	7.528221E+0	7.689729E+1	4.001924E+1	3.598961E+1	1.046365E+1	1.320635E+1	1.484072E+0	2.418315E-1	-4.373463E+1	1.345674E+2
TETP	kg 1,4-DB-eq	6.645486E-3	1.125491E-3	2.334009E-3	1.010499E-2	1.992028E-3	1.562820E-3	3.558717E-4	6.573693E-4	2.805769E-4	7.158446E-6	-5.474212E-3	9.486600E-3
Environmental impact	Unit	A1	A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D	Total
MKI A2 (obv EF 3.0)	euro	0.859612	0.180882	0.108277	1.14877	0.317484	0.330976	0.196443	0.10477	0.022568	0.001888	-0.057667	2.065232
GWP-total	kg CO2eq	5.099119E+0	9.527673E-1	5.084196E-1	6.560306E+0	1.656030E+0	1.526268E+0	5.902150E-1	5.464900E-1	9.742312E-2	6.430011E-3	-8.937140E-1	1.008945E+1
GWP-f	kg CO2eq	5.095444E+0	9.503474E-1	5.082307E-1	6.554023E+0	1.655089E+0	1.680338E+0	5.900695E-1	5.461795E-1	9.726210E-2	6.424464E-3	-3.489740E+0	7.639645E+0
GWP-b	kg CO2eq	2.915120E-3	6.673761E-4	1.453847E-4	3.727881E-3	5.284814E-4	1.301577E-3	9.898830E-5	1.743989E-4	1.425208E-4	3.756296E-6	-8.638883E-4	5.113715E-3
GWP-luluc	kg CO2eq	7.592973E-4	1.752516E-3	4.071214E-5	2.552525E-3	4.123399E-4	5.110409E-4	4.650570E-5	1.360722E-4	1.850767E-5	1.790988E-6	-1.110011E-3	2.568772E-3
ODP	kg CFC11eq	2.240040E-7	1.682386E-7	7.982988E-8	4.720725E-7	3.907090E-7	1.866095E-7	1.274312E-7	1.289340E-7	1.261352E-8	2.645779E-9	-2.540341E-7	1.066981E-6
AP	mol H+	1.808233E-2	9.364751E-3	1.713343E-3	2.916043E-2	7.962439E-3	9.803721E-3	6.171728E-3	2.627605E-3	6.104880E-4	6.099364E-4	-1.593486E-2	4.046254E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D	Total
HWD	kg	1.139576E-4	3.141678E-5	8.268227E-6	1.536426E-4	6.367101E-5	4.657890E-5	2.212020E-5	2.101143E-5	2.274873E-6	2.684092E-7	-8.186883E-5	2.276986E-4
NHWD	kg	2.977514E-1	7.001555E-2	8.297707E-2	4.507441E-1	2.251614E+0	1.803786E-1	9.615482E-3	7.430326E-1	1.820600E-1	1.219727E+0	-2.494757E-1	4.787696E+0
RWD	kg	1.124487E-4	7.817825E-5	1.140346E-5	2.020304E-4	1.749822E-4	8.104741E-5	5.639130E-5	5.774413E-5	5.866315E-6	1.179599E-6	-1.107573E-4	4.684840E-4
CRU	kg	0	0	0	0	0	0	0	0	0	0	0	0
MFR	kg	0	0	0	0	0	0	0	0	0	0	0	0
MER	kg	0	0	0	0	0	0	0	0	0	0	0	0
EET	MJ	0	0	0	0	0	0	0	0	0	0	0	0
EEE	MJ	0	0	0	0	0	0	0	0	0	0	0	0



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