

Climate declaration for aggregates from Karlskoga terminal – Gelleråsen

Declared Unit: 1000 kg of various Aggregates

The climate declaration shows the emissions of greenhouse gases, expressed as CO₂-equivalents. It is based on verified results from a Life Cycle Assessment (LCA) performed as basis for an EPD®, in accordance with ISO 14025 and EN 15804.

Information about the product

The products declared are aggregates manufactured by NCC Industry, Division Stone Materials. The declared site is Gelleråsen in Karlskoga, a medium-sized terminal operated by NCC Industry in Sweden with stationary and mobile crushing plants. The declared products processed in Gelleråsen are intended to be used as, e.g. asphalt, concrete and filling material in civil engineering.

Information about the company

NCC is one of the leading construction and property development companies in the Nordic region, with sales of about 53 billion SEK and approximately 13 000 employees in 2021. With the Nordic region as its home market, NCC is active throughout the value chain – developing commercial properties and constructing housing, offices, industrial facilities and public buildings, roads, civil engineering structures and other types of infrastructure. NCC also offers input materials used in construction and accounts for paving and road services.

Other environmental impacts

For the full EPD, see www.environdec.com.

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Climate declaration A1-A3

The table below lists the emissions of greenhouse gases A1-A3 for the product groups in kg CO₂ eq. per 1000 kg of aggregates.

	GWP – Total	GWP – Fossil	GWP – Biogenic *	GWP – LULUC	GWP – GHG**
Product group 1	2.9	2.9	0	0.011	2.9
Product group 2	3.3	3.3	0	0.013	3.3
Product group 3	3.4	3.4	0	5.4E-03	3.3
Product group 4	3.7	3.6	0	0.015	3.6
Product group 5	4.0	4.0	0	5.5E-03	4.0
Product group 6	4.3	4.3	0	5.6E-03	4.2
Product group 7	5.0	5.0	0	8.5E-03	4.9
Product group 8***	5.5	5.4	0	0.024	5.4
Product group 9	5.5	5.5	0	5.6E-03	5.4
Product group 10	6.2	6.1	0	5.8E-03	6.1

*This indicator is set to zero, due to inconsistencies in the dataset used delivered by Sphera. Though, net result over the life cycle is zero since carbon uptake and emission is zero during a life-cycle.

** The default value to use in the Swedish Transport Administration's tool Klimatkalkyl is 4.0 kg per tonne aggregates (Trafikverket, Klimatkalkyl version 7.0, 2021)

***The admixture of salt in product group 8 contributes to the increased environmental impact which is revealed in the results.

Products declared

The table below lists the aggregate size fractions of each product group.

	Size fraction
Product group 1	Gravel 0/8, Drainage Gravel 0/8
Product group 2	Shingle 8/16
Product group 3	All-In Rock 0/150
Product group 4	Swing Sand 0/4 EU-certified, Fine Sand 0/5, Shingle 16/22, Cobblestone
Product group 5	Base Course 0/32, All-In Rock 0/63, All-In Rock 0/90, Drainage Coarse Rock 16/32, Macadam 18/70
Product group 6	Wearing Course 0/16
Product group 7	All-In Rock, Rock Fines 0/2, Macadam 2/4, Macadam 4/8, Macadam 8/11 Cubic, Macadam 8/16 Concrete, Macadam 8/22, Macadam 11/16 Cubic, Macadam 16/22 Concrete
Product group 8	Gravel 0/8 with Salt
Product group 9	Rock Fines 0/8
Product group 10	Rock Fines 0/4, Rock Fines 0/6 Concrete, Macadam 8/16

EPD programme: The International EPD® System

Registration no: S-P-06195
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PCR: 2019:14 V.1.11
UN CPC: 15310, 15320

PCR review conducted by: The technical committee of the International EPD System
Independent verification of the declaration and data, according to ISO 14025: EPD process certification by Bureau Veritas
Accredited / approved by: The International EPD System
Climate declarations from different programs may not be comparable. This single-issue EPD only addresses one environmental impact category and does not assess other potential impacts arising from the provision of this product. These aspects may be of equal or greater importance than the single impact category displayed.