

Climate declaration for aggregates from Stockholm quarry and terminal – Rydbo

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 Rydbo in Stockholm, a large-sized quarry and terminal operated by NCC Industry in Sweden with mobile crushing plants. The declared products processed in Rydbo are intended to be used as, e.g. filling material in civil engineering and railway macadam.

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	3.1	3.1	0	6.0E-03	3.1
Product group 2	4.4	4.4	0	6.1E-03	4.3
Product group 3	4.6	4.6	0	7.1E-03	4.6
Product group 4***	8.5	8.5	0	0.027	8.4

*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 4 contributes to the increased climate 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	Subbase 0/150, Sub Ballast Reinforcement Layer DCH 15,
Product group 2	All-In Rock 0/16, All-In Rock 0/32, All-In Rock 0/63, All-In Rock 0/90, Macadam 16/32, Macadam 32/63, Macadam 32/90
Product group 3	Rock Fines 0/4, Rock Fines 0/8, Macadam 4/8, Macadam 8/16, Macadam 2/32, Railway Track Ballast 31,5/63 class 1, Tramway Track Ballast 20/40 class 1
Product group 4	Rock Fines Sanding 0/8 Salt

EPD programme: The International EPD® System

Registration no: S-P-06012
Version: 2022-06-28
Validity: 2027-06-27
PCR: 2019:14 V.1.11
UN CPC: 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.

