

CLIMATE DECLARATION FOR ASPHALT MIXTURES FROM GÖTEBORG ASPHALT PLANT – KÄRRA

Functional unit: 1000 kg product

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

Information about the product

The asphalt mixtures declared are manufactured at Kärra asphalt plant in Göteborg, by NCC Industry, Division Asphalt in Sweden. The mixtures declared are the most common ones during the year of production. Asphalt plants manufacture asphalt mixtures for paving purposes. The asphalt mixtures that can be produced at the declared plant are hot mix asphalt (HMA), warm mix asphalt (WMA) and polymer modified asphalt (PMB).

Climate declaration A1-A3

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

Information about the company

NCC is one of the leading construction and property development companies in the Nordic region, with sales of 5.4 billion Euro and approximately 14 500 employees in 2020. 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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* 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 in the Swedish Transport Administration's tool Klimatkalkyl is 49 kg per tonne asphalt mixture (6.5% bitumen) for A1-A3 (Trafikverket, Klimatkalkyl version 7.0, 2021) *** There is no default value in Klimatkalkyl for this type of asphalt mixture (polymer modified bitumen based). It is however expected to give higher impacts than other asphalt mixtures.

Impact category	ABT 11 100/150	AG 16 160/220	ABB 16 70/100	ABS 11 70/100	ABS 11 45/85-55 AN7	ABB 16 45/85-55
GWP - Fossil	24	20	21	26	46	33
GWP – Biogenic*	0	0	0	0	0	0
GWP - Luluc	0.051	0.051	0.051	0.052	0.097	0.056
GWP-GHG	24**	20**	21**	26**	45***	33***
GWP - Total	24	20	21	26	46	33
ABTS 8 70/100	ABB 22 45/85-55	ABS 11 70/100 AN9	ABS 11 70/100 AN7	ABTS 8 100/150	Roundtop 11 40/100-75	Abb 22 40/11-75 NBS
23	32	29	32	23	41	35
0	0	0	0	0	0	0
0.051	0.056	0.070	0.088	0.051	0.061	0.058
23**	32***	29**	31**	23**	40***	34***
23	32	29	32	23	41	35

EPD PROGRAMME: THE INTERNATIONAL EPD® SYSTEM

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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.