

CLIMATE DECLARATION FOR ASPHALT MIXTURES FROM BOLLNÄS ASPHALT PLANT – VÄXBO

Functional unit: 1000 kg asphalt mixture

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 the asphalt plant Växbo in Bollnäs, by NCC Industry, Division Asphalt in Sweden. The asphalt mixtures that can be produced at the declared plant are hot mix asphalt (HMA), warm mix asphalt (WMA), soft bitumen asphalt (SA) and polymer modified asphalt (PMB).

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.

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 asphalt mixture.

		ABT 16 70/100 AN7 LTA	ÅAHV MJOG 16 V1500	ABT 11 70/100 LTA	ABT 16 160/220 LTA
GWP - Total		24	8.3	19	19
GWP – Fossil* **		24*	8.3**	19*	19*
GWP – Biogenic***		0	0	0	0
GWP - Luluc		0.043	0.014	0.011	0.011
GWP – GHG		24	8.3	19	19
ABT 16 70/100 LTA	ABb 16 70/100 LTA	ABT 11 160/220 LTA	ABT 16 70/100 AN10	Abb 22 70/100 LTA	AG 16 70/100 LTA
20	18	19	24	18	17
20*	18*	19*	24*	18*	17*
0	0	0	0	0	0
0.011	0.011	0.011	0.044	0.011	0.011
20	18	19	24	18	17

* 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).

** The default value in Klimatkalkyl is 22 kg per tonne asphalt mixture (called "halvvarm asfalt") for A1-A3 (Trafikverket, Klimatkalkyl version 7.0, 2021).

*** 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.

Other environmental impacts

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

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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.