

CLIMATE DECLARATION FOR ASPHALT MIXTURES FROM SKELLEFTEÅ ASPHALT PLANT

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 Skellefteå asphalt plant, by NCC Industry, Division Asphalt in Sweden.

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), 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.

GWP	ABT 16 100/150 AN 7 LTA	AG 22 160/220 AN 14 LTA	Abb 22 70/100 AN 14 LTA
Total	25	20	21
Fossil	25	20	21
Biogenic*	0	0	0
Luluc	0.058	0.033	0.034
GHG	25**	19**	21**
Abb 16 100/150 AN 14 LTA	MJOG 16 V 6000 AN 14	MJOG 16 V 12000 AN 14	ABT 8 160/220
21	18	21	29
21	18	21	29
0	0	0	0
0.033	0.035	0.036	0.050
21**	18***	21***	29**

* 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).

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

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

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EPD PROGRAMME: THE INTERNATIONAL EPD*SYSTEM		REGISTRATION NO: S-P-03642	VALIDITY: 2027-01-24
PCR: 2019:14 V.1.11	UN CPC: 15330	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			
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