

# Climate declaration for asphalt mixtures from Västerås asphalt plant– Vändle

## Declared Unit: 1000 kg of various Asphalt mixtures

The climate declaration shows the emissions of greenhouse gases, expressed as CO<sub>2</sub>-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 asphalt mixtures declared are manufactured at Vändle asphalt plant in Västerås, 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 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](http://www.environdec.com).

## Climate declaration A1-A3

The table below lists the emissions of greenhouse gases A1-A3 for the product groups in kg CO<sub>2</sub> eq. per 1000 kg of asphalt mixtures.

#	Asphalt mixture	GWP – Total	GWP – Fossil	GWP – Biogenic *	GWP – LULUC	GWP – GHG
1	ABT 11 160/220	23	23	0	0.026	22**
2	ABT 11 (H) 160/220	23	23	0	0.027	23**
3	ABb 22 70/100	19	19	0	0.026	19**
4	ABT 11 70/100	23	23	0	0.026	23**
5	AG 22 70/100	18	18	0	0.025	18**
6	AG 22 160/220	18	18	0	0.025	17**
7	ABS 16 An<6 70/100	37	36	0	0.077	36**
8	ABT 16 70/100	22	22	0	0.026	21**
9	ABT 16 160/220	22	22	0	0.026	21**
10	ABS 16 40/100-75	38	38	0	0.030	37***
11	Viacogrip 16 65/105-50	32	32	0	0.029	31***
12	AG 16 160/220	19	19	0	0.025	19**
13	ABS 16 An<6 45/80-55	51	51	0	0.084	51***
14	ABS 16 An<7 70/100	33	33	0	0.048	32**
15	ABb 16 70/100	24	24	0	0.028	24**

\* 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.

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## EPD programme: The International EPD®System

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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.

