

CLIMATE DECLARATION FOR ASPHALT MIXTURES FROM UDDEVALLA ASPHALT PLANT – PORSEN

Declared unit: 1000 kg of product at the factory gate/construction

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



Information about the product

The asphalt mixtures produced at the declared plant comprise different hot mix asphalt (HMA), warm mix asphalt (WMA), soft bitumen asphalt (SA) and polymer modified asphalt (PMB).

The main components of the asphalt mixtures are mineral rock aggregates, bitumen and additives. The amount of each component varies depending on the asphalt type. Additives include adhesive agents, such as amines and hydraulic binders, and fibres. These additives normally constitute less than 0,5 weight-% of the final product.

Information about the company

NCC is one of the leading construction and property development companies in the Nordic region, with sales of SEK 57 billion and approximately 16 500 employees in 2018. 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 different product groups in kg CO₂ eq. per 1000 kg of product with annual mean share of recycled asphalt pavement (RAP).

	ABT11 100/150	ABS11 70/100	ABS 16 Viacobit 60 an7	ABS 16 70/100 an7	ABb16 70 /100 Green
GWP-fossil	20	24	39	31	19
GWP-biogenic	0.05	0.05	0.05	0.05	0.04
GWP-LULUC	0.08	0.08	0.15	0.16	0.07
GWP-total	20*	24*	39***	31*	19*
	AG16 100/1 50 Green	Abb16 70/100	AG16 100 /150	MJOG16 V12000	MJAG16 V12000
GWP-fossil	18	18	17	17	12
GWP-biogenic	0.04	0.05	0.05	0.03	0.03
GWP-LULUC	0.07	0.07	0.07	0.04	0.04
GWP-total	18*	18*	17*	17**	12**

*The default value in the Swedish Transport Administration's tool Klimatkalkyl is 36.1 kg per tonne asphalt mixture (6.5% bitumen) for A1-A3 (Trafikverket, Klimatkalkyl version 6.1, 2019)

** The default value in Klimatkalkyl is 21.1 kg per tonne asphalt mixture (called "halvvarm asfalt") for A1-A3 (Trafikverket, Klimatkalkyl version 6.1, 2019)

*** 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.

Other environmental impacts

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

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CLIMATE DECLARATIONS FROM DIFFERENT PROGRAMS MAY NOT BE COMPARABLE

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