

CLIMATE DECLARATION FOR ASPHALT MIXTURES FROM STOCKHOLM MASTIC ASPHALT PLANT – ARLANDA

Declared unit: 1000 kg of asphalt mixture

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) 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 hydraulic binders and fibres. These additives normally constitute less than 0,5 weight-% of the final product.

Since asphalt mixtures comprise valuable resources and are 100% recyclable, they are recycled into new asphalt mixtures.

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 service.

Climate declaration A1-A3

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

Other environmental impacts and other products

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

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EPD PROGRAMME: THE INTERNATIONAL EPD®SYSTEM		REGISTRATION NO: S-P-03250	VALIDITY: 2026-04-25
PCR: 2019:14, VERSION 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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	BPM 93	BPGJA 8	BPGJA 8 VAX	BPGJA 8 Skyddslager	BPGJA 11	BPGJA 11 An7	BPGJA 16
GWP-total	108	78	79	79	76	77	76
GWP-fossil* **	108**	78**	79**	79**	76**	77**	76**
GWP-biogenic***	0	0	0	0	0	0	0
GWP-LULUC	0.05	0.04	0.04	0.04	0.04	0.06	0.04
GWP-GHG	108	78	79	79	76	77	76
BINAPONT	STALLMASSA	SPÅR 4	BCS 2-4	ABT 11 160/220	ABT 11 160/220 HAND	AG 16 160/220	AG 22 160/220
175	91	97	47	52	52	50	49
175**	91**	97**	47**	52*	52*	50*	49*
0	0	0	0	0	0	0	0
0.11	0.05	0.06	2.6E-03	0.01	0.01	0.01	0.01
175	91	97	47	52	52	50	49

* 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

*** 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

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