

Climate declaration for asphalt mixtures from Eskilstuna asphalt plant – Kjula

Declared Unit: 1000 kg of various Asphalt mixtures

The climate declaration shows the emissions of greenhouse gases, expressed as CO₂-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 the asphalt plant Kjula in Eskilstuna, 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.

Climate declaration A1-A3

The table below lists the emissions of greenhouse gases A1-A3 for the product groups in kg CO₂ eq. per 1000 kg of asphalt mixtures.

#	Asphalt mixture	GWP – Total**	GWP – Fossil	GWP – Biogenic *	GWP – LULUC	GWP – GHG
1	ABT 11 160/220	27	27	0	0.016	27
2	ABT 11 (H) 160/220	28	28	0	0.016	28
3	ABS 16 An<6 70/100	42	42	0	0.089	42
4	ABT 11 70/100	28	28	0	0.017	27
5	AG 16 160/220	24	24	0	0.015	24
6	AG 22 160/220	23	23	0	0.016	22
7	ABS 11 70/100	30	30	0	0.018	30
8	ABT 16 70/100	27	27	0	0.016	27
9	AG 22 70/100	27	27	0	0.013	27
10	ABb 16 50/70	29	29	0	0.014	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).

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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.

