

Climate declaration for asphalt mixtures from Uddevalla asphalt plant – Porsen

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, ISO 14040, ISO 14044 and EN 15804.

Information about the product

The asphalt mixtures declared are manufactured at asphalt plant Porsen in Uddevalla, 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 54 billion SEK and approximately 12 500 employees in 2022. 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	ABS 16 70/100 an7	29	28	0	0.037	28**
2	ABT 11 100/150	26	26	0	0.024	26**
3	ABb16 70/100	23	23	0	0.023	22**
4	AG16 100/150	20	20	0	0.017	20**
5	MJOG16 V12000	20	20	0	0.020	20***
6	MJAG16 V12000	20	20	0	0.020	20***
7	ABS 11 70/100	26	26	0	0.019	25**
8	ABT 16 160/220	23	23	0	0.022	23**
9	ABS 16 160/220	26	26	0	0.022	26**
10	ABT 16 50/70 AN 7	25	25	0	0.028	25**
11	ABT 16 50/70	23	23	0	0.014	23**
12	Abb 16 50/70	20	20	0	0.013	21**

* 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.

Contact information

NCC Industry Nordic AB,
Herrjärva torg 4,
170 80 Solna, Sweden
Patrik Österberg,
patrik.osterberg@ncc.se
www.ncc.group/sustainability



EPD programme: The International EPD® System

Registration no:	S-P-01641	PCR review conducted by:	The technical committee of the International EPD® System
Version date:	2023-12-14	Independent verification of the declaration and data, according to ISO 14025: EPD process certification by	Bureau Veritas
Validity:	2028-03-20	Accredited:	SWEDAC
PCR:	2019:14 V.1.11	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.	
UN CPC:	15330		