

# Climate declaration for asphalt mixtures from Mora asphalt plant – Grönsberg

## 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, ISO 14040, ISO 14044 and EN 15804.

## Information about the product

The asphalt mixtures declared are manufactured at asphalt plant Grönsberg in Mora, 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](http://www.environdec.com).

### Contact information

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## EPD programme: The International EPD® System

Registration no:	S-P-03978	PCR review conducted by:	The technical committee of the International EPD® System
Version date:	2023-07-05	Independent verification of the declaration and data, according to ISO 14025: EPD process certification by	Bureau Veritas
Validity:	2028-07-04	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		

### 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	20	20	0	0.029	19**
2	ABT 11 160/220 LTA	22	22	0	0.028	22**
3	ABT 11 100/150	20	20	0	0.030	20**
4	ABT 11 100/150 LTA	20	20	0	0.029	19**
5	ABT 11 70/100	21	21	0	0.030	21**
6	ABT 11 70/100 LTA	23	23	0	0.029	23**
7	ABS 11 100/150	23	22	0	0.033	22**
8	ABS 11 100/150 LTA	24	24	0	0.032	24**
9	ABS 11 70/100 LTA	23	23	0	0.031	23**
10	ABT 16 70/100	20	20	0	0.030	20**
11	ABT 16 70/100 LTA	23	23	0	0.028	22**
12	ABT 16 100/150	20	20	0	0.030	19**
13	ABT 16 100/150 LTA	23	23	0	0.028	22**
14	ABT 16 160/220	19	19	0	0.029	19**
15	ABT 16 160/220 LTA	22	22	0	0.028	22**
16	ABS 16 100/150	21	21	0	0.034	21**
17	ABS 16 100/150 LTA	24	24	0	0.032	24**
18	ABS 16 70/100	24	24	0	0.032	24**
19	ABS 16 70/100 LTA	25	25	0	0.033	24**
20	AG 16 70/100	20	20	0	0.026	20**
21	AG 16 70/100 LTA	20	20	0	0.025	20**
22	AG 160/220	17	17	0	0.026	17**
23	AG 160/220 LTA	16	16	0	0.025	16**
24	ABb 16 70/100	18	18	0	0.027	18**
25	ABb 16 70/100 LTA	21	21	0	0.026	20**
26	ABTS 8 160/220	22	22	0	0.030	21**
27	ABTS 8 100/150	21	21	0	0.030	21**
28	AG 22 100/150	16	16	0	0.025	16**
29	AG 22 100/150 LTA	16	16	0	0.025	16**
30	AG 22 70/100	20	20	0	0.025	19**
31	AG 22 70/100 LTA	19	19	0	0.024	19**
32	ABT 4 160/220	24	24	0	0.030	24**
33	ABT 11 160/220 Hand	20	20	0	0.028	19**
34	ABb 16 50/70	18	18	0	0.028	18**
35	ABb 16 50/70 LTA	18	18	0	0.027	18**
36	ABb 11 50/70	19	19	0	0.029	19**
37	AG 16 100/150	17	17	0	0.026	17**
38	AG 16 100/150 LTA	17	17	0	0.026	17**
39	AG 22 160/220	19	19	0	0.024	18**
40	AG 22 160/220 LTA	16	16	0	0.024	16**
41	ABS 16 40/100-75	36	36	0	0.031	36***
42	ABS 11 40/100-75	36	36	0	0.031	36***

\* 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, 2023)

\*\*\* 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.