

Climate declaration for asphalt mixtures from Bollnäs asphalt plant – Växbo, 2023

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 Växbo in Bollnäs, 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 57 billion SEK and approximately 12 200

employees in 2023. 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.

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EPD programme: The International EPD[®]System

Registration no:	EPD-IES-0003652:007 (S-P-03652)	PCR review conducted by: The technical committee of the International EPD [®] System
Version date:	2024-10-11	Independent verification of the declaration and data, according to ISO 14025: EPD process certification by Bureau Veritas
Validity:	2027-12-15	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 CO₂ eq. per 1000 kg of asphalt mixtures.

#	Asphalt mixture	GWP – Total	GWP – Fossil	GWP – Biogenic ^a	GWP – LULUC	GWP – GHG
1	ABb 16 70/100	27	27	0	0.015	27 ^c
2	ABT 11 100/150	29	29	0	0.016	29 ^b
3	ABT 16 100/150 LTA	26	26	0	0.015	26 ^b
4	ABT 16 70/100 AN10	37	37	0	0.074	37 ^b
5	ABT 16 70/100 AN7	33	33	0	0.058	33 ^b
6	ABT 16 70/100 LTA	26	26	0	0.014	26 ^b
7	AG 16 70/100	29	29	0	0.017	29 ^c
8	AG 16 70/100 LTA	27	27	0	0.017	27 ^c
9	AG 22 160/220 Förhöjd LTA	26	26	0	0.017	26 ^c
10	AG 22 160/220 Förhöjd	25	25	0	0.013	25 ^c
11	ABb 16 70/100 LTA	24	24	0	0.014	25 ^c
12	ABb 22 70/100	26	26	0	0.014	26 ^c
13	ABb 22 70/100 LTA	27	27	0	0.017	27 ^c
14	ABT 11 70/100	29	29	0	0.016	29 ^b
15	ABT 11 70/100 LTA	28	28	0	0.016	28 ^b
16	ABT 16 160/220	28	28	0	0.015	28 ^b
17	ABT 16 160/220 LTA	26	26	0	0.015	26 ^b
18	ABT 16 100/150	29	29	0	0.017	29 ^b
19	ABT 16 70/100	31	31	0	0.018	31 ^b
20	ABT 16 70/100 AN7 LTA	30	30	0	0.051	30 ^b
21	ABS 11 70/100 AN7	36	36	0	0.073	36 ^b
22	ABS 11 70/100 AN7 LTA	39	39	0	0.089	39 ^b
23	ABS 16 70/100 AN7	37	37	0	0.076	37 ^b
24	ABS 16 70/100 AN7 LTA	39	39	0	0.091	39 ^b
25	ABT 8 70/100 LTA	30	30	0	0.018	30 ^b
26	ABT 11 160/220 LTA	26	26	0	0.015	26 ^b
27	AG 22 70/100 LTA	27	27	0	0.017	27 ^c
28	AG 32 70/100 LTA	26	26	0	0.016	26 ^c
29	ABb 16 100/150 LTA	26	26	0	0.016	26 ^c
30	ABT 16 70/100 AN10 LTA	36	36	0	0.076	36 ^b
31	ABT 16 100/150 AN10	30	30	0	0.018	30 ^b
32	ABT 16 100/150 AN10 LTA	28	28	0	0.018	28 ^b
33	MJOG 16 V12000	21	21	0	0.017	21 ^d

^aThis 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.

^bThe default value in the Swedish Transport Administration's tool Klimatkalkyl is 49 kg per tonne asphalt mixture (ABS and ABT) for A1-A3 (Trafikverket, Klimatkalkyl version 8.0, 2024).

^cThe default value in the Swedish Transport Administration's tool Klimatkalkyl is 43 kg per tonne asphalt mixture (ABb and AG) for A1-A3 (Trafikverket, Klimatkalkyl version 8.0, 2024).

^dThe default value in Klimatkalkyl is 26 kg per tonne asphalt mixture (MJOG and MJAG) for A1-A3 (Trafikverket, Klimatkalkyl version 8.0, 2024).