

Climate declaration for asphalt mixtures from Stockholm asphalt plant – Riksten

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 Riksten in Stockholm, 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-0002305:006 (S-P-02305)	PCR review conducted by: The technical committee of the International EPD® System
Version date:	2020-12-15	Independent verification of the declaration and data, according to ISO 14025: EPD process certification by Bureau Veritas
Validity:	2024-11-04	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 CO₂ eq. per 1000 kg of asphalt mixtures.

#	Asphalt mixture	GWP – Total	GWP – Fossil	GWP – Biogenic ^a	GWP – LULUC	GWP – GHG
1	ABb 22 50/70	15	15	0	0,019	15 ^c
2	ABb 22 70/100	14	14	0	0,015	15 ^c
3	AG 16 70/100	13	13	0	0,018	13 ^c
4	AG 16 160/220	12	12	0	0,015	12 ^c
5	AG 22 70/100	14	14	0	0,017	14 ^c
6	AG 22 160/220	12	12	0	0,014	12 ^c
7	AGF 22 70/100	15	15	0	0,018	15 ^c
8	ABT 11 70/100	16	16	0	0,016	16 ^b
9	ABT 11 100/150	17	17	0	0,020	17 ^b
10	ABT 11 160/220	16	16	0	0,019	16 ^b
11	ABT 11 160/220 Hand	16	16	0	0,015	16 ^b
12	ABT 16 70/100	16	16	0	0,019	16 ^b
13	ABT 16 160/220	18	18	0	0,018	18 ^b
14	ABS 16 70/100	18	18	0	0,018	18 ^b
15	ABS 16 70/100 AN7	28	28	0	0,121	28 ^b
16	ABb 16 70/100	15	15	0	0,019	15 ^c
17	AGF 22 160/220	13	13	0	0,017	13 ^c
18	ABS 16 50/70 AN6	26	26	0	0,095	26 ^b

^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).c