

Climate declaration for asphalt mixtures from Stockholm asphalt plant – Arlanda

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 Arlanda in Sweden, 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.

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: EPD-IES-0003443:005 (S-P-03443)
Version date: 2024-11-20
Validity: 2027-11-01
PCR: 2019:14 V.1.11
UN CPC: 15330

PCR review conducted by: The technical committee of the International EPD® System
Independent verification of the declaration and data, according to ISO 14025: EPD process certification by Bureau Veritas
Accredited: SWEDAC
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.

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	0,021	15 ^c
2	ABS 16 70/100 AN7	22	22	0	0,046	22 ^b
3	ABS 16 70/100	19	19	0	0,027	20 ^b
4	ABS 16 45/80-55 70 AN7	34	34	0	0,047	35 ^b
5	ABT 11 70/100	18	18	0	0,025	18 ^b
6	ABT 16 70/100	17	17	0	0,024	17 ^b
7	ABT 16 45/80-55	27	27	0	0,020	27 ^b
8	AG 16 160/220	14	14	0	0,020	14 ^c
9	AG 22 160/220	13	13	0	0,020	14 ^c
10	AG 32 70/100	14	14	0	0,020	14 ^c
11	AGF 22 70/100 LTA	16	16	0	0,022	16 ^c
12	AG 22 70/100 LTA	14	14	0	0,020	14 ^c
13	ABT 11 100/150 LTA	17	17	0	0,023	17 ^b
14	AG 16 160/220 LTA	13	13	0	0,019	14 ^c
15	ABS 16 70/100 AN6	39	39	0	0,19	40 ^b
16	AG 16 70/100	15	15	0	0,022	15 ^c
17	ABb 16 70/100	15	15	0	0,022	15 ^c
18	ABT 16 70/100 AN7	19	19	0	0,033	19 ^b
19	Strongfalt 16 70/100 AN6	41	40	0	0,24	41
20	ABT 8 160/220	20	20	0	0,026	20 ^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).