

CLIMATE DECLARATION FOR ASPHALT MIXTURES FROM MORA ASPHALT PLANT – GRÖNSBERG

Functional unit: 1000 kg asphalt mixture

The climate declaration shows the emissions of greenhouse gases, expressed as CO₂-equivalents. It is based on verified results from a lifecycle assessment (LCA) performed as basis for an EPD®, in accordance with ISO 14025 and EN 15804.



Information about the product

The asphalt mixtures declared are manufactured at the 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 5.4 billion Euro and approximately 14 500 employees in 2020. 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.

Climate declaration A1-A3

The table below lists the emissions of greenhouse gases A1-A3 for the product in kg CO₂ eq. per 1000 kg asphalt mixture.

	ABT 11 160/220	ABT 11 160/220 LTA	ABT 11 100/150	ABT 11 100/150 LTA	ABT 11 70/100
GWP - Total	21	20	22	21	25
GWP - Fossil	21	20	22	21	25
GWP-Biogenic*	0	0	0	0	0
GWP - Luluc	0.083	0.078	0.084	0.079	0.086
GWP - GHG	21**	20**	22**	21**	25**

ABT 11 70/100 LTA	ABS 11 100/150	ABS 11 100/150 LTA	ABS 11 70/100 LTA	ABT 16 70/100	ABT 16 70/100 LTA	
21	23	23	25	21	21	
21	23	23	25	21	21	
0	0	0	0	0	0	
0.079	0.088	0.083	0.085	0.083	0.079	
21**	23**	23**	25**	21**	21**	
ABT 16 100/150	ABT 16 100/150 LTA	ABT 16 160/220	ABT 16 160/220 LTA	ABS 16 100/150	ABS 16 100/150 LTA	ABS 16 70/100
20	20	20	23	26	25	26
20	20	20	23	26	25	26
0	0	0	0	0	0	0
0.083	0.078	0.082	0.081	0.091	0.086	0.091
20**	20**	20**	23**	26**	25**	26**
ABS 16 70/100 LTA	AG 16 70/100	AG 16 70/100 LTA	AG 160/220	AG 160/220 LTA	ABb 16 70/100	ABb 16 70/100 LTA
25	21	21	18	17	19	21
25	21	21	18	17	19	21
0	0	0	0	0	0	0
0.086	0.084	0.079	0.080	0.076	0.081	0.080
25**	21**	21**	18**	17**	19**	21**
ABTS 8 160/220	AG 22 100/150	AG 22 100/150 LTA	AG 22 70/100	AG 22 70/100 LTA	ABT 4 160/220	ABT 11 160/220 Hand
23	17	17	17	17	25	21
23	17	17	17	17	25	21
0	0	0	0	0	0	0
0.085	0.080	0.075	0.080	0.076	0.086	0.083
23**	17**	17**	17**	17**	25**	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)

Other environmental impacts

For the full EPD, see www.environdec.com.

Contact information

NCC Industry Nordic AB
Herrjärva torg 4, 170 80 Solna, Sweden

Kristine Ek, kristine.ek@ncc.se
www.ncc.group/sustainability



EPD PROGRAMME: THE INTERNATIONAL EPD® SYSTEM

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INDEPENDENT VERIFICATION OF THE DECLARATION AND DATA, ACCORDING TO ISO 14025:
EPD PROCESS CERTIFICATION BY BUREAU VERITAS

ACCREDITED / APPROVED BY:
THE INTERNATIONAL EPD SYSTEM

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.