

CLIMATE DECLARATION FOR ASPHALT MIXTURES FROM BORLÄNGE ASPHALT PLANT – GUSTAFS

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 Gustafs in Borlänge, 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 11 160/22 0 LTA	ABT 11 100/150	ABT 11 100/15 0 LTA	ABT 11 70/100	ABT 11 70/100 LTA
GWP - Total	22	24	22	20	25	24
GWP - Fossil	22	24	22	20	25	24
GWP - Biogenic*	0	0	0	0	0	0
GWP - Luluc	0.037	0.038	0.037	0.036	0.039	0.039
GWP - GHG	22**	24**	22**	20**	25**	24**
ABS 11 70/100 An7	ABS 11 70/100 An7LT A	ABS 11 100/150 An7LTA	ABT 16 70/100	ABT 16 70/100 LTA	ABT 16 160/22 0	ABT 16 160/22 0 LTA
23	26	23	21	24	23	23
23	26	23	21	24	23	23
0	0	0	0	0	0	0
0.051	0.057	0.052	0.036	0.039	0.038	0.038

23**	26**	23**	21**	24**	23**	23**	25**
ABT 16 70/100 An7 LTA	ABS 16 70/100 An7	ABS 16 70/100 An7 LTA	ABS 16 70/100 An6	ABS 16 70/100 An6 LTA	ABS 16 70/100 An4	ABS 16 70/100 An9	ABS 16 70/100 An9 LTA
25	26	25	22	25	26	26	25
25	26	25	22	25	26	26	25
0	0	0	0	0	0	0	0
0.050	0.057	0.051	0.057	0.057	0.057	0.057	0.057
25**	26**	25**	22**	25**	26**	26**	25**
AG 16 70/100	AG 16 70/100 LTA	AG 16 160/220	AG 16 160/22 0 LTA	ABB 22 70/100	ABB 22 70/100 LTA	ABT 16 100/15 0 LTA	ABT 16 100/150 AN7 LTA
20	21	20	21	22	18	21	21
20	21	20	21	22	18	21	21
0	0	0	0	0	0	0	0
0.036	0.037	0.036	0.037	0.037	0.035	0.037	0.046
20**	21**	20**	21**	22**	18**	21**	21**
ABb 16 70/100 LTA	ABb 11 70/100	ABTS 8 160/220	ABT 8 70/100	AG 22 100/150	ABb 16 70/100	ABT 11 160/22 0 Hand	AG 16 100/150
19	22	28	24	20	22	26	18
19	22	28	24	20	22	26	18
0	0	0	0	0	0	0	0
0.035	0.038	0.040	0.038	0.037	0.038	0.039	0.035
19**	22**	28**	24**	20**	22**	26**	18**
AG 22 160/220 LTA	AG 22 160/22 0	ABb 11 70/100 LTA	ABS 16 70/100 AN4 LTA	AG 22 100/150 LTA			
17	17	19	25	17			
17	17	19	25	17			
0	0	0	0	0			
0.034	0.034	0.035	0.057	0.034			
17**	17**	19**	25**	17**			

* 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)

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

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INDEPENDENT VERIFICATION OF THE DECLARATION AND DATA, ACCORDING TO ISO 14025:
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ACCREDITED / APPROVED BY:
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