

Permit Number: BR8212IK

Operator: Knauf Insulation Ltd

Installation: Knauf Insulation Ltd, Cwmbran

Form Number: Air2

Reporting of emissions to air for the period from 01/07/2022 to 31/12/2022

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
A0	Particulate matter	35 mg/Nm ³	Extractive sample	20.0 (3 spot sample average)	EN 13284-1	13:08 – 15:30 15/11/2022	2.4
A1	Particulate matter	20 mg/Nm ³	Daily average	1.84	MCerts Approved	Jul-Dec 2022 95% Operational	-
A1	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	300 mg/Nm ³	Daily average	243.72	MCerts Approved	Jul-Dec 2022 95% Operational	-
A1	Carbon Monoxide	100 mg/Nm ³	Extractive sample	161.5 (3 spot sample average)	EN 15058	19:07 – 04:07 16-17/11/2022	4.5
A1	Oxides of Sulphur (as SO ₂)	150 mg/Nm ³	Extractive sample	60.4 (3 spot sample average)	EN 14791	09:00 - 09:36 16/11/2022	3.4
A1	Gaseous Fluorides (as HF)	5 mg/Nm ³	Extractive sample	0.33 (3 spot sample average)	CEN/TS 17340	09:30 – 11:55 16/11/2022	0.039
A1	Gaseous Chlorides (as HCl)	10 mg/Nm ³	Extractive sample	<0.05 (3 spot sample average)	EN 1911	09:30 – 11:55 16/11/2022	0.002
A1	Group 1 Metals	1 mg/Nm ³	Extractive sample	0.026 (3 spot sample average)	EN 14385	09:00 – 11:12 17/11/2022	0.005
A1	Group 2 Metals	2 mg/Nm ³	Extractive sample	0.063 (3 spot sample average)	EN 14385	09:00 – 11:12 17/11/2022	0.015
A3	Particulate matter	47 mg/Nm ³	Extractive sample	15.9 (3 spot sample average)	EN 13284-1	09:48 – 12:30 11/11/2022	0.97
A3	Phenol	9 mg/Nm ³	Extractive sample	<0.49 (3 spot sample average)	CEN/TS 13649	09:48 – 12:30 11/11/2022	0.1

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
A3	Formaldehyde	5 mg/Nm ³	Extractive sample	0.36 (3 spot sample average)	USEPA M316	11:10 – 14:25 14/11/2022	0.02
A3	Ammonia	60 mg/Nm ³	Extractive sample	30.9 (3 spot sample average)	EN 14791	09:48 – 13:30 11/11/2022	5.8
A3	Volatile Organic Compounds (as C)	27 mg/Nm ³	Extractive sample	14.1 (3 spot sample average)	EN 12619	11:30 – 13:02 14/11/2022	0.57
A3	Amines	3 mg/Nm ³	Extractive sample	<0.07 (3 spot sample average) [6]	CEN/TS 13649	12:40 – 15:45 11/11/2022	0.01
A4 ^[5]	Particulate matter	30 mg/Nm ³	Extractive sample	No longer emission point	EN 13284-1		

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the authority is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

[5] Particulate matter for emission point A4 has not been recorded since 2017 when a new filtration system was installed on each raw material silo removing the emission point A4.

[6] Average of results of five amine group measurements.

Signed
(Authorised to sign as representative of Operator)

Darren Chubb

Date...31/01/2023.....