

Permit Number: BR8212IK

Operator: Knauf Insulation Ltd

Installation: Knauf Insulation Ltd, Cwmbran

Form Number: Air2

Reporting of emissions to air for the period from 01/07/2023 to 31/12/2023

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	27.5 (3 spot sample average)	EN 13284-1	10:25 – 13:24 17/11/2023	1.7
A1	Particulate matter	20 mg/Nm ³	Daily average	1.33	MCerts Approved	Jul-Dec 2023 98% Operational	-
A1	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	300 mg/Nm ³	Daily average	239.17	MCerts Approved	Jul-Dec 2023 98% Operational	-
A1	Carbon Monoxide	100 mg/Nm ³	Extractive sample	20.6 (3 spot sample average)	EN 15058	12:00 – 13:30 16/11/2023	1.2
A1	Oxides of Sulphur (as SO ₂)	150 mg/Nm ³	Extractive sample	25.4 (3 spot sample average)	EN 14791	11:20 – 13:14 13/11/2023	1.4
A1	Gaseous Fluorides (as HF)	5 mg/Nm ³	Extractive sample	0.33 (3 spot sample average)	CEN/TS 17340	10:10–10:40 / 10:48–12:34 13-14/11/2023	0.04
A1	Gaseous Chlorides (as HCl)	10 mg/Nm ³	Extractive sample	0.16 (3 spot sample average)	EN 1911	10:10–10:40 / 10:48–13:04 13-14/11/2023	0.01
A1	Group 1 Metals	1 mg/Nm ³	Extractive sample	0.019 (3 spot sample average)	EN 14385	09:24 – 13:20 14/11/2023	0.004
A1	Group 2 Metals	2 mg/Nm ³	Extractive sample	0.041 (3 spot sample average)	EN 14385	09:24 – 13:20 14/11/2023	0.008
A3	Particulate matter	47 mg/Nm ³	Extractive sample	10.2 (3 spot sample average)	EN 13284-1	11:25 – 14:45 15/11/2023	0.91
A3	Phenol	9 mg/Nm ³	Extractive sample	<0.31 (3 spot sample average)	CEN/TS 13649	11:01 – 14:10 16/11/2023	0.06

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	0.20 (3 spot sample average)	CEN/TS 17638	15:00–15:30 / 09:41–11:53 15-16/11/2023	0.01
A3	Ammonia	60 mg/Nm ³	Extractive sample	9.4 (3 spot sample average)	EN 14781	11:25 – 14:45 15/11/2023	1.7
A3	Volatile organic compounds	27 mg/Nm ³	Extractive sample	11.5 (3 spot sample average)	EN 12619	16:20 – 17:50 16/11/2023	0.48
A3	Amines	3 mg/Nm ³	Extractive sample	<0.12 (3 spot sample average) [6]	CEN/TS 13649	14:20 – 17:40 16/11/2023	0.02
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)

Date...12/01/2024.....