

Permit Number: BR8212IK

Operator: Knauf Insulation Ltd

Installation: Knauf Insulation Ltd, Cwmbran

Form Number: Air1

**Reporting of emissions to air for the period from 01/07/2016 to 31/12/2016**

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result <sup>(1)</sup>	Test Method <sup>(2)</sup>	Sample Date and Times <sup>(3)</sup>	Uncertainty <sup>(4)</sup>
A0	Particulate matter	35 mg/Nm <sup>3</sup>	Extractive sample	11.93 (3 spot sample average)	BS EN 13284-1	10:58 – 13:46 26/09/2016	1.7
A1	Particulate matter	20 mg/Nm <sup>3</sup>	Daily average	3.15	MCerts Approved	Jul – Dec 2016 99% Operational	-
A1	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	300 mg/Nm <sup>3</sup>	Daily average	201.08	MCerts Approved	Jul – Dec 2016 99% Operational	-
A1	Carbon monoxide	100 mg/Nm <sup>3</sup>	Extractive sample	5.13 (3 spot sample average)	BS EN 15058	13:00 – 14:40 11/11/2016	11.6
A1	Oxides of sulphur (as SO <sub>2</sub> )	150 mg/Nm <sup>3</sup>	Extractive sample	67.2 (3 spot sample average)	BS EN14791	12:10 – 13:50 28/09/2016	8.17
A1	Gaseous fluorides (as HF)	5 mg/Nm <sup>3</sup>	Extractive sample	0.63 (3 spot sample average)	ISO 15713	14:05 – 15:45 28/09/2016	0.08
A1	Gaseous Chlorides (as HCl)	10 mg/Nm <sup>3</sup>	Extractive sample	1.4 (3 spot sample average)	BS EN1911	09:28 – 11:55 28/09/2016	0.37
A1	Group 1 Metals	1 mg/Nm <sup>3</sup>	Extractive sample	0.114 (3 spot sample average)	BS EN14385	09:33 – 11:25 29/09/2016	0.015
A1	Group 2 Metals	2 mg/Nm <sup>3</sup>	Extractive sample	0.16 (3 spot sample average)	BS EN14385	09:33 – 11:25 29/09/2016	0.019
A3	Particulate matter	35 mg/Nm <sup>3</sup>	Extractive sample	16.93 (3 spot sample average)	BS EN 13284-1	12:20 – 14:10 27/09/2016	2.3
A3	Phenol	10 mg/Nm <sup>3</sup>	Extractive sample	0.88 (3 spot sample average)	BS EN 13649	10:30 – 14:00 27/09/2016	50%

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result <sup>[1]</sup>	Test Method <sup>[2]</sup>	Sample Date and Times <sup>[3]</sup>	Uncertainty <sup>[4]</sup>
A3	Formaldehyde	5 mg/Nm <sup>3</sup>	Extractive sample	0.40 (3 spot sample average)	BSEN 13649	10:28 – 12:04 27/09/2016	0.05
A3	Ammonia	50 mg/Nm <sup>3</sup>	Extractive sample	26.33 (3 spot sample average)	BS EN 14791	12:20 – 14:10 27/09/2016	3.2
A3	Volatile organic compounds	30 mg/Nm <sup>3</sup>	Extractive sample	10.63 (3 spot sample average)	BS EN 12619	16:00 – 17:40 27/09/2016	2.9
A3	Amines	3 mg/Nm <sup>3</sup>	Extractive sample	0.45 (3 spot sample average)	BSEN 13649	10:35 – 14:05 27/09/2016	50%
A4	Particulate matter	30 mg/Nm <sup>3</sup>	Extractive sample	6.47 (3 spot sample average)	BS EN 13284-1	14:45 – 16:25 03/10/2016	1.4

- [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.

Signed .....  
(Authorised to sign as representative of Operator)

*Devesh Chakraborty*

Date...31/01/2017.....

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Operator: Knauf Insulation Ltd

Installation: Knauf Insulation Ltd, Cwmbran

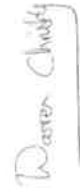
Form Number: Water1

**Reporting of emissions to water (other than to sewer) for the period from 01/07/2016 to 31/12/2016**

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result <sup>[1]</sup>	Test Method <sup>[2]</sup>	Sample Date and Times <sup>[3]</sup>	Uncertainty <sup>[4]</sup>
W1	COD	120 mg/l	Spot sample	<10 mg/l	AES 1029	31/10/2016 12:30	-
W1	Total suspended solids	30 mg/l	Spot sample	7 mg/l	AES 1041	31/10/2016 12:30	-
W1	Total hydrocarbon oil	15 mg/l	Spot sample	0.55 mg/l	AN 34	31/10/2016 12:30	-
W1	pH max	9	Spot sample	7.3	AES 1035	31/10/2016 12:30	-
W1	pH min	6	Spot sample	7.3	AES 1035	31/10/2016 12:30	-

- Plant was not discharging via W1 during sample period. Water recycling pump was operational.

- [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 Agency 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.



Signed ..... Date... 31/01/2017 .....  
(Authorised to sign as representative of Operator)

