

## Reporting of Monitoring and Performance Data

Permit Reference Number : BX64211Y

Operator : REHAU Ltd , Amlwch

Installation : Amlwch Plastics Installation

Form Number : A1

**Reporting of Emissions to Air for the period from 01.07.16 to 31.12.16**

| Emission Point | Substance/Parameter | Emission Limit Value | Test Method <sup>[2]</sup> | Result (mg/m <sup>3</sup> ) <sup>[1]</sup> | Sample date and time <sup>[3]</sup> | Accreditation / Certification <sup>[4]</sup> | Uncertainty <sup>[5]</sup> | Number of breaches of limit over period <sup>[6]</sup> |
|----------------|---------------------|----------------------|----------------------------|--|-------------------------------------|--|----------------------------|--|
| A1             | Lead                | 2mg/m <sup>3</sup>   | BS EN 14385                | 0.0003                                     | 21.07.16                            | MCERTS                                       | 0.00002                    | 0  |
| A1             | Particulate         | 20mg/m <sup>3</sup>  | BS EN 13284-1              | 0.20                                       | 21.07.16                            | MCERTS                                       | 0.47                       | 0  |

- [1] Where only one measurement is required for a specific substance/parameter over the reporting period, the value should be entered in this column.
- [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. colorimetry.
- [3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements, or flow/time proportional samples, the percentage of the process operating time covered by the monitoring is given.
- [4] The accreditation status of the equipment and/or the monitoring organisation shall be as agreed according to condition 2.10.7, and shall apply for the methods used for both sampling and analysis.
- [5] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.
- [6] The number of breaches is intended as a summary only and is in addition to the operators need to notify these to the Agency according to the conditions in Section 5 of the permit.

Signed : *Nell Jones*  
 (authorised to sign as representative of the Operator)

Date : 28.04.17

Date: 01/2006

## Performance of Monitoring and Performance Data

Permit Reference Number : BX64211Y

Operator : REHAU Ltd, Amlwch

Installation : Amlwch Plastics Installation

Form Number : E1

### Reporting of Energy Usage for the Year 2016

| Energy Source | Energy Usage Quantity | Primary Energy (MWh) | CO <sub>2</sub> Produced (Tonnes) |
|---------------|-----------------------|----------------------|-----------------------------------|
| Electricity*  | 3957                  | 10288.2              | 1743.85                           |
| Natural Gas*  | 2031                  | 2031                 | 385.89                            |
|               |                       |                      |                                   |
|               |                       |                      |                                   |
|               |                       |                      |                                   |
|               |                       |                      |                                   |
| <b>TOTAL</b>  |                       | <b>12319.2</b>       | <b>2129.74</b>                    |

| Year | Trends in Energy Usage               |                                   |
|------|--------------------------------------|-----------------------------------|
|      | Parameter Primary Energy usage (MWh) | CO <sub>2</sub> Produced (Tonnes) |
| 2007 | 14847                                | 2497.4                            |
| 2008 | 16324                                | 2557.14                           |
| 2009 | 14892                                | 2514.02                           |
| 2010 | 15092                                | 2515.77                           |
| 2011 | 14341.4                              | 2455.89                           |
| 2012 | 14326.2                              | 2496.71                           |
| 2013 | 15565                                | 2673.794                          |
| 2014 | 17583                                | 3037.889                          |
| 2015 | 13852.2                              | 2383.433                          |

- \* Conversion factor for delivered electricity to primary energy = 2.6
- \* CO2 Conversion factor for primary electricity = 0.1695
- \* CO2 Conversion factor for primary natural gas = 0.19
- \* CO2 Conversion factor for primary gas oil = 0.25

**Operator's comments:- During 2016 there was a 19% decrease in Production. The Natural Gas is used for the Regenerative Thermal Oxidiser under the LAPPCC Permit with Isle of Anglesey County Council and for Factory Heating.**

Signed :  Date : 28.04.17  
 (authorised to sign as representative of the Operator)

## Reporting of Monitoring and Performance Data

Permit Reference Number : BX64211Y

Operator : REHAU Ltd, Amlwch

Installation : Amlwch Plastics Installation

Form Number : R1

### Reporting of Waste Disposal and Recovery for the Year 2016

| Waste Description  | Disposal Route | Tonnes | Recovery Tonnes | Trends in Waste Disposal and Recovery |   |           |       |        |        |
|--|----------------|--------|-----------------|---------------------------------------|---|-----------|-------|--------|--------|
|  |                |        |                 | Year                                  | Parameter                                 | Parameter |       |        |        |
| 1) Hazardous Wastes<br>Various mixing materials,<br>including those containing Pb<br>stabiliser & Thinners / paint | Land           | 0      | 66.028          | 2005                                  | Plasticiser Waste                         | 7         | 433   | 440    |        |
|  |                |        |                 | 2006                                  | Bag filter waste containing Pb stabiliser | 6         | 336.9 | 343    |        |
|  |                |        |                 | 2007                                  |   | 1.8       | 32    | 465    | 497    |
|  |                |        |                 | 2008                                  |   | 4.1       | 138   | 323.25 | 465.35 |
|  |                |        |                 | 2009                                  |   | 0.6       | 25    | 121    | 146.6  |
|  |                |        |                 | 2010                                  |   | 0         | 0     | 79     |        |
|  |                |        |                 | 2011                                  |   |           |       | 73.154 |        |
|  |                |        |                 | 2012                                  |   | 0.82      |       | 56.842 |        |
|  |                |        |                 | 2013                                  |   | 0         | 0     | 69.57  |        |
|  |                |        |                 | 2014                                  |   | 0         | 0     | 61.8   |        |
|  |                | 2015   | 0               | 0                                     | 129.01                                    |           |       |        |        |
| <b>TOTAL WASTE</b>   |                | 21.85  |                 |                                       |   | 142.437   |       |        |        |

**Operator's Comments:-** Every Production process inevitably generates some waste. Our aim is to produce as little waste as possible AND to be environmentally aware of where the waste goes and what becomes of it.  
Our Waste Carriers and Disposers are all properly licensed by the relevant Authorities.

Signed :   
(authorised to sign as representative of the Operator)

Date : 28.04.17

## Reporting of Monitoring and Performance Data

Permit Reference Number : BX64211Y      Operator : REHAU Ltd, Amlwch

Installation : Amlwch Plastics Installation      Form Number : P14

### Reporting of Performance Indicators for the Year : 2016

| Table P14(a): Reporting of Annual Production/Treatment |  |
|--|--|
| None Required  |  |

| Environmental Performance Indicators |   |   |
|--------------------------------------|---|---|
| Parameter                            | Usage<br>(tonne/tonne)(on annual basis) | Trends in Environmental Performance   |
|                                      |   | Year  |
| Lead                                 | 0                                       | Lead stabiliser usage per unit production (uPVC) - (te/te on an annual basis) |
|                                      |   | v/t uPVC Product  |
|                                      |   | 2006  |
|                                      |   | 2007  |
|                                      |   | 2008  |
|                                      |   | 2009  |
|                                      |   | 2010  |
|                                      |   | 2011  |
|                                      |   | 2012  |
|                                      |   | 2013  |
|                                      |   | 2014  |
|                                      |   | 2015  |

**Operator's comments :-** The site did not use any lead during 2016. All articles have been converted from using lead to calcium zinc as the stabiliser

Signed :  (authorised to sign as representative of the Operator)

Date: 28.04.17