

## Euramax Coated Products BV

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### Agrément Certificate

23/7072

Product Sheet 3 Issue 1

## EURAMAX COIL-COATED ALUMINIUM ALLOY COIL AND SHEET

## EURAMAX ARS-COATED ALUMINIUM ALLOY COIL AND SHEET

This Agrément Certificate Product Sheet<sup>(1)</sup> relates to Euramax ARS-Coated Aluminium Alloy Coil and Sheet, for use in its profiled form as external roofing, cladding or internal lining.

(1) Hereinafter referred to as 'Certificate'.

### The assessment includes

#### Product factors:

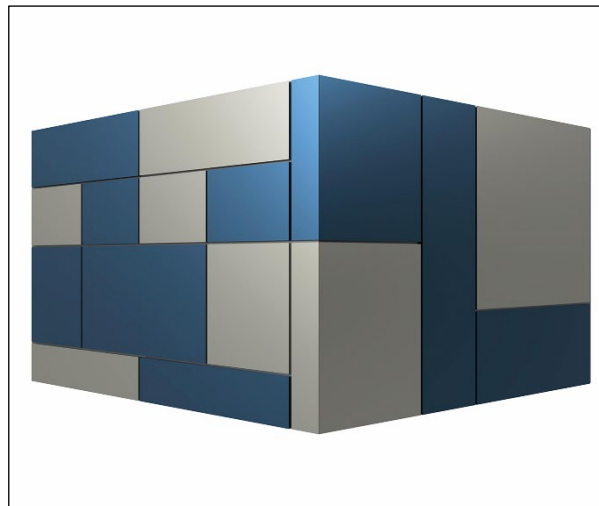
- compliance with Building Regulations
- compliance with additional regulatory or non-regulatory information where applicable
- evaluation against technical specifications
- assessment criteria and technical investigations
- uses and design considerations

#### Process factors:

- compliance with Scheme requirements
- installation, delivery, handling and storage
- production and quality controls
- maintenance and repair

#### Ongoing contractual Scheme elements†:

- regular assessment of production
- formal 3-yearly review



### KEY FACTORS ASSESSED

- Section 1. Mechanical resistance and stability
- Section 2. Safety in case of fire
- Section 3. Hygiene, health and the environment
- Section 4. Safety and accessibility in use
- Section 5. Protection against noise
- Section 6. Energy economy and heat retention
- Section 7. Sustainable use of natural resources
- Section 8. Durability

The BBA has awarded this Certificate to the company named above for the product described herein. This product has been assessed by the BBA as being fit for its intended use provided it is installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of issue: 5 January 2024

Hardy Giesler  
Chief Executive Officer

*This BBA Agrément Certificate is issued under the BBA's Inspection Body accreditation to ISO/IEC 17020. Sections marked with † are not issued under accreditation.*

*The BBA is a UKAS accredited Inspection Body (No. 4345), Certification Body (No. 0113) and Testing Laboratory (No. 0357).*

*Readers MUST check that this is the latest issue of this Agrément Certificate by either referring to the BBA website or contacting the BBA directly.*

*The Certificate should be read in full as it may be misleading to read clauses in isolation.*

*Any photographs are for illustrative purposes only, do not constitute advice and should not be relied upon.*

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## SUMMARY OF ASSESSMENT AND COMPLIANCE

This section provides a summary of the assessment conclusions; readers should refer to the later sections of this Certificate for information about the assessments carried out.

### Compliance with Regulations

Having assessed the key factors, the opinion of the BBA is that Euramax ARS-Coated Aluminium Alloy Coil and Sheet, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements of the following Building Regulations:



#### The Building Regulations 2010 (England and Wales) (as amended)

|                     |              |                                                                                               |
|---------------------|--------------|-----------------------------------------------------------------------------------------------|
| <b>Requirement:</b> | <b>A1</b>    | <b>Loading</b>                                                                                |
| Comment:            |              | The product can contribute to satisfying this Requirement. See section 1 of this Certificate. |
| <b>Requirement:</b> | <b>B2(1)</b> | <b>Internal fire spread (lining)</b>                                                          |
| Comment:            |              | The product may be restricted by this Requirement. See section 2 of this Certificate.         |
| <b>Requirement:</b> | <b>B3(2)</b> | <b>Internal fire spread (structure)</b>                                                       |
| Comment:            |              | The product may be restricted by this Requirement. See section 2 of this Certificate.         |
| <b>Requirement:</b> | <b>B3(4)</b> | <b>Internal fire spread (structure)</b>                                                       |
| Comment:            |              | The product can contribute to satisfying this Requirement. See section 2 of this Certificate. |
| <b>Requirement:</b> | <b>B4(1)</b> | <b>External fire spread</b>                                                                   |
| Comment:            |              | The product may be restricted by this Requirement. See section 2 of this Certificate.         |
| <b>Requirement:</b> | <b>B4(2)</b> | <b>External fire spread</b>                                                                   |
| Comment:            |              | The product may be restricted by this Requirement. See section 2 of this Certificate.         |
| <b>Requirement:</b> | <b>C2(b)</b> | <b>Resistance to moisture</b>                                                                 |
| Comment:            |              | The product can contribute to satisfying this Requirement. See section 3 of this Certificate. |
| <b>Regulation:</b>  | <b>7(1)</b>  | <b>Materials and workmanship</b>                                                              |
| Comment:            |              | The product is acceptable. See sections 8 and 9 of this Certificate.                          |
| <b>Regulation:</b>  | <b>7(2)</b>  | <b>Materials and workmanship</b>                                                              |
| Comment:            |              | The product may be restricted by this Regulation. See section 2 of this Certificate.          |



#### The Building (Scotland) Regulations 2004 (as amended)

|                    |                  |                                                                                                                               |
|--------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Regulation:</b> | <b>8(1)(2)</b>   | <b>Fitness and durability of materials and workmanship</b>                                                                    |
| Comment:           |                  | The use of the product can contribute to a construction satisfying this Regulation. See sections 8 and 9 of this Certificate. |
| <b>Regulation:</b> | <b>8(3)</b>      | <b>Fitness and durability of materials and workmanship</b>                                                                    |
| Comment:           |                  | The product may be restricted by this Regulation. See section 2 of this Certificate.                                          |
| <b>Regulation:</b> | <b>9</b>         | <b>Building standards – construction</b>                                                                                      |
| Standard:          | <b>1.1(a)(b)</b> | <b>Structure</b>                                                                                                              |
| Comment:           |                  | The use of the product can contribute to a construction satisfying this Standard. See section 1 of this Certificate.          |

|                    |           |                                                                                                                                                                                                                                                                                                               |
|--------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard:          | 2.1       | Compartmentation                                                                                                                                                                                                                                                                                              |
| Standard:          | 2.2       | Separation                                                                                                                                                                                                                                                                                                    |
| Comment:           |           | The product may be restricted by these Standards with reference to clauses 2.1.12 <sup>(2)</sup> , 2.1.15 <sup>(2)</sup> , 2.2.4 <sup>(2)</sup> , 2.2.5 <sup>(2)</sup> , 2.2.6 <sup>(1)</sup> , 2.2.7 <sup>(1)(2)</sup> , 2.2.8 <sup>(1)</sup> and 2.2.10 <sup>(1)</sup> . See section 2 of this Certificate. |
| Standard:          | 2.3       | Structural protection                                                                                                                                                                                                                                                                                         |
| Comment:           |           | The product may be restricted by this Standard, with reference to clause 2.3.2 <sup>(1)(2)</sup> . See section 2 of this Certificate.                                                                                                                                                                         |
| Standard:          | 2.4       | Cavities                                                                                                                                                                                                                                                                                                      |
| Comment:           |           | The product can contribute to satisfying this Standard, with reference to clause 2.4.2 <sup>(1)(2)</sup> . See section 2 of this Certificate.                                                                                                                                                                 |
| Standard:          | 2.5       | Internal linings                                                                                                                                                                                                                                                                                              |
| Comment:           |           | The product may be restricted by this Standard, with reference to clause 2.5.1 <sup>(1)(2)</sup> . See section 2 of this Certificate.                                                                                                                                                                         |
| Standard:          | 2.6       | Spread to neighbouring buildings                                                                                                                                                                                                                                                                              |
| Comment:           |           | The product may be restricted by this Standard, with reference to clauses 2.6.4 <sup>(1)(2)</sup> , 2.6.5 <sup>(1)</sup> and 2.6.6 <sup>(2)</sup> . See section 2 of this Certificate.                                                                                                                        |
| Standard:          | 2.7       | Spread on external walls                                                                                                                                                                                                                                                                                      |
| Comment:           |           | The product may be restricted by this Standard, with reference to clause 2.7.1 <sup>(1)(2)</sup> . See section 2 of this Certificate.                                                                                                                                                                         |
| Standard:          | 2.8       | Spread from neighbouring buildings                                                                                                                                                                                                                                                                            |
| Comment:           |           | The product is restricted by this Standard, with reference to clause 2.8.1 <sup>(1)(2)</sup> . See section 2 of this Certificate.                                                                                                                                                                             |
| Standard:          | 3.10      | Precipitation                                                                                                                                                                                                                                                                                                 |
| Comment:           |           | The product can contribute to satisfying this Standard, with reference to clauses 3.10.1 <sup>(1)(2)</sup> , 3.10.4 <sup>(1)(2)</sup> , 3.10.6 <sup>(1)(2)</sup> and 3.10.7 <sup>(1)(2)</sup> . See section 3 of this Certificate.                                                                            |
| Standard:          | 7.1(a)    | Statement of sustainability                                                                                                                                                                                                                                                                                   |
| Comment:           |           | The product can contribute to meeting the relevant Requirements of Regulation 9, Standards 1 to 6, and therefore will contribute to a construction meeting a bronze level of sustainability as defined in this Standard.                                                                                      |
| <b>Regulation:</b> | <b>12</b> | <b>Building standards - conversions</b>                                                                                                                                                                                                                                                                       |
| Comment:           |           | Comments made in relation to the product under Regulation 9, Standards 1 to 6, also apply to this Regulation, with reference to clause 0.12.1 <sup>(1)(2)</sup> and Schedule 6 <sup>(1)(2)</sup> .                                                                                                            |
|                    |           | (1) Technical Handbook (Domestic).<br>(2) Technical Handbook (Non-Domestic).                                                                                                                                                                                                                                  |



## The Building Regulations (Northern Ireland) 2012 (as amended)

|                    |                 |                                                                                              |
|--------------------|-----------------|----------------------------------------------------------------------------------------------|
| <b>Regulation:</b> | <b>23(1)(a)</b> | <b>Fitness of materials and workmanship</b>                                                  |
| Comment:           | <b>(i)(iii)</b> | The product is acceptable. See sections 8 and 9 of this Certificate.                         |
| <b>Regulation:</b> | <b>23(2)</b>    | <b>Fitness of materials and workmanship</b>                                                  |
| Comment:           |                 | The product may be restricted by this Regulation. See section 2 of this Certificate.         |
| <b>Regulation:</b> | <b>28(b)</b>    | <b>Resistance to moisture and weather</b>                                                    |
| Comment:           |                 | The product can contribute to satisfying this Regulation. See section 3 of this Certificate. |
| <b>Regulation:</b> | <b>30</b>       | <b>Stability</b>                                                                             |
| Comment:           |                 | The product can contribute to satisfying this Regulation. See Section 1 of this Certificate. |

|                    |                 |                                                                                              |
|--------------------|-----------------|----------------------------------------------------------------------------------------------|
| <b>Regulation:</b> | <b>34(a)(b)</b> | <b>Internal fire spread — Linings</b>                                                        |
| <b>Comment:</b>    |                 | The product may be restricted by this Regulation. See section 2 of this Certificate.         |
| <b>Regulation:</b> | <b>35(2)</b>    | <b>Internal fire spread — Structure</b>                                                      |
| <b>Comment:</b>    |                 | The product may be restricted by this Regulation. See section 2 of this Certificate.         |
| <b>Regulation:</b> | <b>35(4)</b>    | <b>Internal fire spread- Structure</b>                                                       |
| <b>Comment:</b>    |                 | The product can contribute to satisfying this Regulation. See section 2 of this Certificate. |
| <b>Regulation:</b> | <b>36(a)</b>    | <b>External fire spread</b>                                                                  |
| <b>Comment:</b>    |                 | The product may be restricted by this Regulation. See section 2 of this Certificate.         |
| <b>Regulation:</b> | <b>36(b)</b>    | <b>External fire spread</b>                                                                  |
| <b>Comment:</b>    |                 | The product is restricted by this Regulation. See section 2 of this Certificate.             |

## Fulfilment of Requirements

The BBA has judged Euramax ARS-Coated Aluminium Alloy Coil and Sheet to be satisfactory for use as described in this Certificate. The product has been assessed as external roofing, cladding or internal lining, in its profiled form. The product may also be used as plain sheet for such purposes as small infill panels (provided these are sufficiently robust and properly secured). It may be brake-pressed into the associated flashings and fittings.

## ASSESSMENT

### Product description and intended use

The Certificate holder provided the following description for the product under assessment. Euramax ARS-Coated Aluminium Alloy Coil and Sheet consists of an aluminium alloy coil to BS EN 573-3 : 2019. Coils can be supplied stucco-embossed.

The product has the nominal characteristics given in Table 1.

*Table 1 Nominal characteristics of Euramax ARS-Coated Aluminium Alloy Coil and Sheet*

| Characteristic          | Value                                                                      |
|-------------------------|----------------------------------------------------------------------------|
| Total coating thickness |                                                                            |
| - outer face            | a primer and a polyamide modified polyurethane paint, 28 µm                |
| - inner face            | 2 µm lacquer coating, or 6 µm chromated epoxy coating, or as the face side |
| Colour                  | a range of colours and gloss <sup>(1)(2)</sup>                             |
| Width                   | up to 1.525 mm                                                             |
| Thickness               | between 0.35 and 2 mm.                                                     |

(1) Details are obtained from the Certificate holder.

(2) Coils can be supplied stucco-embossed.

### Application

Profiled sheets and flashings are produced by specialist forming companies and are outside the scope of this Certificate.

## Product assessment – key factors

The product was assessed for the following key factors, and the outcome of the assessment is shown below. Conclusions relating to the Building Regulations apply to the whole of the UK unless otherwise stated.

### 1 Mechanical resistance and stability

Data were assessed for the following characteristics.

#### 1.1 Resistance to impact

1.1.1 Results of resistance to impact test is given in Table 2.

*Table 2 Resistance to impact*

| Product assessed                                  | Assessment method                   | Requirement                                                         | Result |
|---------------------------------------------------|-------------------------------------|---------------------------------------------------------------------|--------|
| Euramax ARS-Coated Aluminium Alloy Coil and Sheet | Impact resistance to MOAT 34 : 1986 | No significant cracking, chipping or losing adhesion of the coating | Pass   |

1.1.2 On the basis of data assessed, the product can be used in areas where there is little possibility of impact or abrasion damage, ie at low levels in areas with restricted access or at higher levels in public areas.

1.1.3 The impact resistance of the product is determined by the impact resistance of the aluminium on which it is based. No adhesion failure of the coating will occur, although hairline cracks may occur in areas of high stress.

#### 1.2 Strength and stability

1.2.1 Results of strength and stability tests are given in Table 3.

*Table 3 Strength and stability*

| Product assessed                                  | Assessment method                                         | Requirement                                                     | Result                |
|---------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------|-----------------------|
| Euramax ARS-Coated Aluminium Alloy Coil and Sheet | Resistance to cracking on bending to BS EN 13523-7 : 2014 | The minimum bending radius without cracking or loss of adhesion | 1½T bend through 180° |
| Euramax ARS-Coated Aluminium Alloy Coil and Sheet | Pencil Hardness to MOAT 34 : 1986                         | Value achieved                                                  | 2H                    |
| Euramax ARS-Coated Aluminium Alloy Coil and Sheet | Cross-cut adhesion to MOAT 34 : 1986                      | Value achieved                                                  | Class 0               |

1.2.2 On the basis of data assessed, the product may be worked by conventional techniques including brake-pressing, roll-forming, bending, drilling and punching.

### 2 Safety in case of fire

Data were assessed for the following characteristics.

#### 2.1 Reaction to fire

2.1.1 The product achieved the reaction to fire classification given in Table 4.

**Table 4 Reaction to fire classifications**

| Product                                                                                                                                                   | Construction                                                                                                   | Method/report reference <sup>(1)</sup>                               | Classification |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------|
| Euramax ARS-Coated Aluminium Alloy Coil and Sheet<br>All colours<br>Reverse side: less than 12 µm<br>Thicknesses of the aluminium substrate: 0.47-2.00 mm | Free standing in accordance with EN 13823 : 2020<br>Without joints<br>Fire exposed side: the outer coated face | EN 13501-1 : 2018<br>Warringtonfire Report No. 20937R <sup>(1)</sup> | A2-s1, d0      |
| Reverse surface facing into a cavity                                                                                                                      | —                                                                                                              | —                                                                    | Not declared   |

(1) Copies are available from the Certificate holder.

2.1.2 The construction in Table 4, achieving an A2-s1, d0 classification is unrestricted in terms of building height and proximity to a relevant boundary.

2.1.3 When used as internal linings, the constructions in Table 4 are unrestricted.

2.1.4 The classifications and permissible areas of use of other product thicknesses, and other constructions, must be established in accordance with the documents supporting the national Building Regulations.

2.1.5 Designers must refer to the relevant national Building Regulations and guidance for detailed conditions of use, particularly in respect of requirements for substrate fire performance, cavity barriers (which must not impede ventilation and drainage pathways), service penetrations and combustibility limitations for other materials and components used in the overall construction.

## 2.2 Resistance to fire

Where a wall incorporating the product is required to achieve a period of fire resistance, it's performance must be confirmed by a suitably qualified and experienced individual or by a test from a suitably accredited laboratory.

## 2.3 External fire spread

2.3.1 The Certificate holder has not declared a resistance to external fire exposure to BS EN 13501-5 : 2016, for the product.

2.3.2 In Wales and Northern Ireland, designers may refer to the relevant documents supporting the national Building Regulations for certain roof specifications that can achieve a notional B<sub>ROOF</sub>(t4) designation without testing and are consequently unrestricted with respect to distance from a relevant boundary.

2.3.3 Other specifications/constructions in Wales and Northern Ireland, and all specifications/constructions in England and Scotland can be affected by other components of the roof, such as underlays and insulations. These specifications/constructions must therefore be evaluated by reference to the requirements of the documents supporting the relevant national Building Regulations and any consequent restrictions imposed by those documents, on a case-by-case basis. In the absence of a rating, the product must not be used within 20 m of a relevant boundary in England, Wales and Northern Ireland, and 24 m in Scotland.

## 3 Hygiene, health and the environment

Not applicable.

## 4 Safety and accessibility in use

Not applicable.

## 5 Protection against noise

Not applicable.

## 6 Energy economy and heat retention

Not applicable.

## 7 Sustainable use of natural resources

Not applicable.

## 8 Durability

8.1 The potential mechanisms for degradation and the known performance characteristics of the materials in the product were assessed.

8.2 Specific test data were assessed as shown in Table 5.

*Table 5 Results of durability tests*

| Product assessed                                                    | Assessment method                                                                                                                                              | Requirement                                                                                                  | Result |
|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------|
| Euramax ARS-Coated Aluminium Alloy Coil and Sheet                   | Resistance to sulfur dioxide to MOAT 34 : 1986 exposure of 1000 hours                                                                                          | No significant blistering, deterioration, loss of adhesion, rust staining, change of colour or embrittlement | Pass   |
| Euramax ARS-Coated Aluminium Alloy Coil and Sheet                   | Resistance to salt spray to MOAT 34 : 1986 after 1000 hour of exposure to the following:<br>Continuous hot acetic acid at 35±1.4°C<br>Cold seawater salt spray | No significant blistering, deterioration, loss of adhesion, rust staining, change of colour or embrittlement | Pass   |
|                                                                     |                                                                                                                                                                |                                                                                                              | Pass   |
| Euramax ARS-Coated Aluminium Alloy Coil and Sheet                   | Resistance to humidity to MOAT 34 : 1986                                                                                                                       | No significant blistering, deterioration, loss of adhesion, rust staining, change of colour or embrittlement | Pass   |
| Euramax ARS-Coated Aluminium Alloy Coil and Sheet- range of colours | Colour stability to MOAT 34 : 1986 for 1000 hours<br>Unwashed<br>Washed                                                                                        | No significant change of colour or embrittlement                                                             | Pass   |
|                                                                     |                                                                                                                                                                |                                                                                                              | Pass   |
|                                                                     |                                                                                                                                                                |                                                                                                              | Pass   |
| Euramax ARS-Coated Aluminium Alloy Coil and Sheet                   | Colour stability to BS 3900 Part F3 : 1971 for 3000 hours                                                                                                      | No significant change of colour or embrittlement                                                             | Pass   |
| Euramax ARS-Coated Aluminium Alloy Coil and Sheet                   | Soiling and ease of cleaning to American Federal Test Specification SS-C-6216, January 1968                                                                    | No sign of effect on coating film                                                                            | Pass   |
| Euramax ARS-Coated Aluminium Alloy Coil and Sheet                   | Abrasion resistance to MOAT 34 : 1986                                                                                                                          | Value achieved                                                                                               | 0.04 g |
| Euramax ARS-Coated Aluminium Alloy Coil and Sheet                   | Scratch resistance to MOAT 34 : 1986                                                                                                                           | Value achieved                                                                                               | 2000 g |

8.2.1 Visits were made existing sites to assess the performance of the product in service.

8.2.2 On the basis of data assessed, the product is resistant to all normal atmospheric corrosive conditions (including coastal and industrial) and will withstand considerable distortion of the metal without losing adhesion between the coating and the substrate.

### 8.3 Service life

8.3.1 Under normal service conditions, the product's coating and metal treatment will protect the aluminium substrate against corrosion for a period in excess of 40 years, provided it is designed, installed and maintained in accordance with this Certificate and the Certificate holder's instructions.

8.3.2 The performance of the coating will depend upon the coating specification, its environment, location, aspect face and use (ie roofing and cladding). It will retain a good appearance for at least 20 years in non-corrosive environments, and at least 15 years in severe industrial environments.

## PROCESS ASSESSMENT

Information provided by the Certificate holder was assessed for the following factors:

### 9 Design, installation, workmanship and maintenance

#### 9.1 Design

9.1.1 The design process was assessed by the BBA, and the following requirements apply in order to satisfy the performance assessed in this Certificate.

9.2.2 The profiled product, when incorporated into a cladding or roofing system designed and installed in accordance with conventional good practice and this Certificate, and installed by an experienced and competent individual, can adequately resist wind loads likely to be encountered in the UK.

9.2.3 The profiled product, when incorporated into a roofing or cladding system designed and installed in accordance with conventional good practice and this Certificate, can adequately resist the passage of moisture.

9.2.4 If the building has an exposed eaves detail, and is in an aggressive environment, or if there are corrosive conditions inside it, the reverse side must have the same specification as the face side, or be overpainted.

#### 9.2 Installation

9.2.1 Installation of Euramax ARS-Coated Aluminium Alloy Coil and Sheet should be designed and carried out with the relevant parts of:

- BS 5250 : 2021
- BS 5427-1 : 2016
- *National Federation of Roofing Contractors Profiled sheet metal roofing and cladding — A guide to good practice*
- MCRMA<sup>(1)</sup> *Technical Paper No 5 — Metal Wall Cladding Detailing Guide*
- MCRMA<sup>(1)</sup> *Technical Paper No 6 — Profiled Metal Roofing Design Guide*
- MCRMA<sup>(1)</sup> *Technical Paper No 11 — Flashings for metal roof and wall cladding*
- MCRMA<sup>(1)</sup> *Technical Paper No 12 — Fasteners for metal roof and wall cladding : Design, detailing and installation guide.*

(1) The Metal Cladding and Roofing Manufacturer's Association.

9.2.2 The metallic coatings are directional. To avoid contrast it is important to ensure that all sheets are fixed in the same (machine) direction and not inverted. Each elevation must be clad with material from the same batch.

9.2.3 The product may be worked by conventional techniques including brake-pressing, roll-forming, bending, drilling and punching. It is essential that the correct tools, in good condition, are used to prevent any damage to the coating, and that any swarf is removed.

9.2.4 Some care is necessary when handling the product to prevent damage to the coating.

#### 9.3 Workmanship

Practicability of installation was assessed by the BBA, on the basis of the Certificate holder's information. To achieve the performance described in this Certificate, installation of the product must be carried out by a competent general builder, or a contractor, experienced with this type of product.

## 9.4 Maintenance and repair

9.4.1 Ongoing satisfactory performance of the product in use requires that it is suitably maintained. The guidance provided by the Certificate holder was assessed by the BBA and found to be appropriate and adequate. The following requirements apply in order to satisfy the performance assessed in this Certificate.

9.4.2 In some areas (eg coastal and industrial areas, and where cladding is sheltered directly beneath a soffit), it may be necessary to clean the installation periodically, both to restore its appearance and to remove potentially corrosive deposits. This can be done by hosing with water, using a neutral detergent.

9.4.3 Maintenance painting must be considered at the intervals defined in section 8.3.2 or earlier if a high aesthetic standard is required. The Certificate holder can recommend a suitable maintenance system.

9.4.4 A planned maintenance cycle must be introduced if an extended design life is required. The Certificate holder can recommend a suitable system for maintenance painting.

9.4.5 Regular maintenance inspections must be carried out to ensure that rainwater goods are present and in good order, that flashings are secure and that fixings are present and secure.

## 10 Manufacture

10.1 The production processes for the product have been assessed, and provide assurance that the quality controls are satisfactory according to the following factors:

10.1.1 The manufacturer has provided documented information on the materials, processes, testing and control factors.

10.1.2 The quality control operated over batches of incoming materials has been assessed and deemed appropriate and adequate.

10.1.3 The quality control procedures and product testing to be undertaken have been assessed and deemed appropriate and adequate.

10.1.4 The process for management of non-conformities has been assessed and deemed appropriate and adequate.

10.1.5 An audit of each production location was undertaken, and it was confirmed that the production process was in accordance with the documented process, and that equipment has been properly tested and calibrated.

† 10.2 The BBA has undertaken to review the above measures on a regular basis through a surveillance process, to verify that the specifications and quality control operated by the manufacturer are being maintained.

## 11 Delivery and site handling

11.1 The supplier or specialist fabricator stated that the product is not delivered to site in coil form, but formed into profiled sheets and flashings by specialist forming companies. The profiled sheet is usually delivered to site on trailers and unloaded by crane. The site must have adequate access and a suitable surface for this traffic.

11.2 Delivery and site handling must be performed in accordance with the Certificate holder's instructions and this Certificate, including:

11.2.1 During transport, the edges and corners of the sheets must be protected against damage and the sheets must be restrained to prevent abrasion.

11.2.2 On site, sheets must be stored on a firm, dry base, on bearers at a maximum spacing of 900 mm, away from the possibility of damage, and covered to prevent the ingress of water. They must be stored as close as possible to the building where they are to be installed and must be handled in accordance with the Manual Handling Operations Regulations 1992 (as amended).

11.2.3 When required for installation, the sheets must be lifted from the stack rather than dragged across it.

## ANNEX A – SUPPLEMENTARY INFORMATION †

Supporting information in this Annex is relevant to the product but has not formed part of the material assessed for the Certificate.

### Construction (Design and Management) Regulations 2015

### Construction (Design and Management) Regulations (Northern Ireland) 2016

Information in this Certificate may assist the client, designer (including Principal Designer) and contractor (including Principal Contractor) to address their obligations under these Regulations.

### Management Systems Certification for production

The management system of the manufacturer has been assessed and registered as meeting the requirements of BS EN ISO 9001 : 2015 by TUV Nederland (Certificate 2945-13.2).

### Additional Guidance

The product contains aluminium, which can be recycled.

## Bibliography

American Federal Test Specification SS-C-6216 January 1968

BS EN 573-3 : 2019 + A1 : 2022 *Aluminium and aluminium alloys. Chemical composition and form of wrought products - Chemical composition and form of products*

BS 3900 : Part F3 : 1971 *Methods of test for paint — Durability tests on paint films — Resistance to artificial weathering (enclosed carbon arc*

BS 5250 : 2021 *Code of practice for control of condensation in buildings*

BS 5427-1 : 2016 + A1 : 2017 *Code of practice for the use of profiled sheet for roof and wall cladding on buildings — Design*

BS EN 13501-5 : 2016 *Fire classification of construction products and building elements - Classification using data from external fire exposure to roofs tests*

BS EN 13523-7 : 2014 *Coil coated metals — Test methods — Resistance to cracking on bending (T-bend test)*

BS EN ISO 9001 : 2015 *Quality management systems — Requirements*

EN 13501-1 : 2018 *Fire classification of construction products and building elements — Classification using data from reaction to fire tests*

EN 13823 : 2020 *Reaction to fire tests for building products — Building products excluding floorings exposed to the thermal attack by a single burning item*

MOAT 34 : 1986 *Method of assessment and testing Precoated metal sheet roofing and cladding*

## Conditions of Certificate

### Conditions

1 This Certificate:

- relates only to the product that is named and described on the front page
- is issued only to the company, firm, organisation or person named on the front page – no other company, firm, organisation or person may hold or claim that this Certificate has been issued to them
- is valid only within the UK
- has to be read, considered and used as a whole document – it may be misleading and will be incomplete to be selective
- is copyright of the BBA
- is subject to English Law.

2 Publications, documents, specifications, legislation, regulations, standards and the like referenced in this Certificate are those that were current and/or deemed relevant by the BBA at the date of issue or reissue of this Certificate.

3 This Certificate will be displayed on the BBA website, and the Certificate Holder is entitled to use the Certificate and Certificate logo, provided that the product and its manufacture and/or fabrication, including all related and relevant parts and processes thereof:

- are maintained at or above the levels which have been assessed and found to be satisfactory by the BBA
- continue to be checked as and when deemed appropriate by the BBA under arrangements that it will determine
- are reviewed by the BBA as and when it considers appropriate.

4 The BBA has used due skill, care and diligence in preparing this Certificate, but no warranty is provided.

5 In issuing this Certificate the BBA is not responsible and is excluded from any liability to any company, firm, organisation or person, for any matters arising directly or indirectly from:

- the presence or absence of any patent, intellectual property or similar rights subsisting in the product or any other product
- the right of the Certificate holder to manufacture, supply, install, maintain or market the product
- actual installations of the product, including their nature, design, methods, performance, workmanship and maintenance
- any works and constructions in which the product is installed, including their nature, design, methods, performance, workmanship and maintenance
- any loss or damage, including personal injury, howsoever caused by the product, including its manufacture, supply, installation, use, maintenance and removal
- any claims by the manufacturer relating to UKCA marking and CE marking.

6 Any information relating to the manufacture, supply, installation, use, maintenance and removal of this product which is contained or referred to in this Certificate is the minimum required to be met when the product is manufactured, supplied, installed, used, maintained and removed. It does not purport in any way to restate the requirements of the Health and Safety at Work etc. Act 1974, or of any other statutory, common law or other duty which may exist at the date of issue or reissue of this Certificate; nor is conformity with such information to be taken as satisfying the requirements of the 1974 Act or of any statutory, common law or other duty of care.

#### British Board of Agrément

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