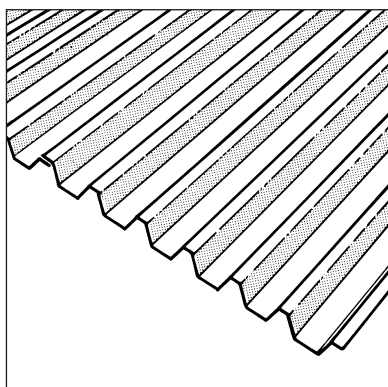




Euramax Coated Products Limited

EURAMAX PVF₂-COATED
ALUMINIUM ALLOY COIL AND SHEET

Product



• THIS DETAIL SHEET RELATES TO EURAMAX PVF₂-COATED ALUMINIUM ALLOY COIL AND SHEET, COATED ON THE FACE SIDE⁽¹⁾ WITH A PRIMER AND A CLASS 1 POLYVINYLIDENE FLUORIDE/ACRYLIC PAINT TO A TOTAL COATING THICKNESS OF 25 µm.

• The product is available in a range of colours at a 35% gloss level.

(1) The reverse side is coated with a 2 µm lacquer coating, a 6 µm chromated epoxy coating, or the same specification as on the face side.

This Detail Sheet must be read in conjunction with the Front Sheets, which give the product's position regarding the Building Regulations, general information relating to the product and the Conditions of Certification, respectively.

Design Data

1 General

1.1 Euramax PVF₂-Coated Aluminium Alloy Coil and Sheet may be profiled by roll-forming or brake-pressing, and is suitable for external use as plain sheet or in profiled form in accordance with the documents listed in section 10 of the Front Sheets. The product is available in a range of colours, at 35% gloss, details of which may be obtained from the manufacturer.

1.2 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 should be clad with material from the same batch.

2 Workability

2.1 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.

2.2 The standard product (EN AW 3105 alloy H25) is sufficiently flexible to withstand a 1½T (ECCA⁽¹⁾-T20/1992) bend through 180° without

damage. Other alloy and tempers may be less flexible.

(1) European Coil Coating Association

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

3 Properties in relation to fire

3.1 The coated aluminium coil and sheet, when tested to BS 476 : Part 3 : 1958, has an EXT.S.AA rating.

3.2 When tested to BS 476 : Part 6 : 1968 the product has an index of performance (I) of 2.0 with sub-index (i₁) of 1.1 and when tested to BS 476 : Part 7 : 1971 it has a Class 1 surface. It therefore has a Class 0 surface as defined in the various Building Regulations.

3.3 The reverse side specifications are also Class 0 surfaces.

4 Location

The product is suitable for use 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. These are as described in categories C to F of BS 8200 : 1985, Table 2, and as categories E₂ to E₅ of MOAT No 43 : 1987, which are reproduced (in part) in Table 1.

Table 1 Categories — BS 8200 and MOAT No 43

| Category BS 8200 | Description | Examples | Category MOAT 43 |
|------------------|--|--|--|
| C | Accessible mainly to those with some incentive to exercise care. Some chance of accident occurring and of misuse | Walls adjacent to private open gardens. Back walls of balconies | Zone of wall up to 1.5 m above pedestrian or floor level E ₃ |
| D | Only accessible, but not near a common route, to those with high incentive to exercise care. Small chance of accident occurring or of misuse | Walls adjacent to small fenced decorative gardens with no through paths or floor | |
| E | Above zone of normal impacts from people but liable to impacts from thrown or kicked objects | 1.5 m to 6 m above pedestrian or floor level in public areas | E' ₂ |
| F | Above zone of normal impacts from people and not liable to impacts from thrown or kicked objects | Wall surfaces at higher positions than those defined in E above | E ₅ |

5 Durability



5.1 The product will perform effectively as a cladding or roofing with an ultimate life of at least 30 years.

5.2 The performance of the coating will depend upon the colour chosen, its environment, location, aspect face and use (ie, roofing or cladding). It will retain a good appearance for up to 20 years in non-corrosive environments, or for up to 15 years in marine or severe industrial environments. Colour changes, in general, will be slight and uniform on any one elevation, and may be more pronounced

with colours of vermilion, golden yellow and silver metallic.

5.3 A planned maintenance cycle (see section 8 of the Front Sheets) should be introduced if an extended design life is required. Euramax Coated Products Limited can recommend a suitable system for maintenance painting.

5.4 If the building has an exposed eaves detail, and is in an aggressive environment, or if there are corrosive conditions inside it, the specification of the reverse side coating should be discussed with the manufacturer.

Bibliography

BS 476 *Fire tests on building materials and structures*
 Part 3 : 1958 *External fire exposure roof test*
 Part 6 : 1968 *Method of test for fire propagation for products*
 Part 7 : 1971 *Surface spread of flame test for materials*

BS 8200 : 1985 *Code of practice for design of non-loadbearing external vertical enclosures of buildings*

MOAT No 43 : 1987 *UEAtc Directives for Impact Testing Opaque Vertical Building Components*



On behalf of the British Board of Agrément

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Director

*Original Detail Sheet issued on 30th June 1993. This amended version includes a change of name of the Certificate holder.