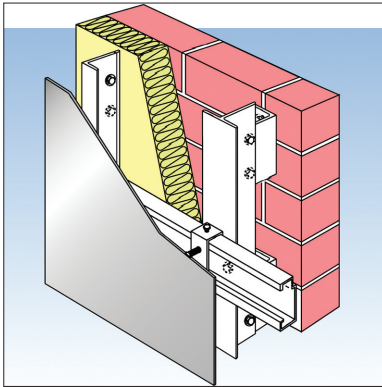


Product



- THIS DETAIL SHEET RELATES TO FF3 PVDF COIL-COATED ALUMINIUM COIL AND SHEET, FOR USE AS EXTERNAL CLADDING.
- The product is available in a range of colours at a gloss level of 20 units.

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 system, and the Conditions of Certification.

Technical Specification

1 Description

1.1 FF3 PVDF Coil-Coated Aluminium Coil and Sheet is manufactured from 3 mm thick aluminium alloy of grade AW 5754 to BS EN 573-3 : 1995, temper designation H42 to BS EN 515 : 1993.

1.2 The product is coil-coated with a primer and PVDF topcoat to a total thickness of 25 µm. A lacquer coat 3 µm thick is applied to the reverse side.

1.3 The product is available in a range of colours at a gloss level of 20 units.

1.4 A protective polyethylene film, printed with the Novelis and FF3 logos, is applied to the top surface of the product.

2 Delivery and site handling

FF3 is supplied in sheet form to specialist companies who form façade elements using a variety of folding, bending and roller curving machines. These façade elements are then delivered directly to site.

Design Data

3 General

3.1 FF3 PVDF Coil-Coated Aluminium Coil and Sheet, after fabrication into façade elements, is suitable for use as non-loadbearing cladding.

3.2 Each elevation should be clad with material from the same batch.

4 Workability

4.1 The product can be worked by conventional techniques including break-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.

4.2 To avoid cracking during forming, bends should be preformed at a minimum temperature of 20°C and at a minimum bending radius of 7.5 mm (equivalent to 2.5T, according to BS EN 13523-7 : 2001). Tighter bends may be achieved by routing out where the material is to be bent, in accordance with the Certificate holder's instructions.

4.3 The material may be stud-welded in accordance with the Certificate holder's instructions.

5 Performance in relation to fire

5.1 When tested to BS 476-6 : 1989, a sample of the product with colour reference 1775 achieved an index performance I=0 with sub-index (i₁=0) and to BS 476-7 : 1997, achieved a Class 1 surface. This product, therefore, has a Class 0 or 'low risk' surface as defined in the national Building Regulations.

5.2 A sample of colour reference 17H8 of the product, when tested to BS 476-3 : 1958 had an EXT.S.AA rating.

5.3 This performance may not be achieved by other colours of the product. The designations of other colours should be confirmed by:

England and Wales

Test or assessment in accordance with Approved Document B, Appendix A, clause 1

Scotland

Test to conform with Table to Annex 2C⁽¹⁾ or 2E⁽²⁾ of Regulation 9

(1) Technical Handbook (Domestic).

(2) Technical Handbook (Non-Domestic).

Northern Ireland

Test or assessment by a UKAS accredited laboratory or an independent consultant with appropriate experience.

5.4 The reverse side's lacquer coating is also a Class 0 or 'low risk' surface.

6 Durability



6.1 The product will perform effectively as a cladding, with an ultimate life of at least 30 years.

6.2 In some industrial environments, maintenance painting to restore the sheet's appearance may be necessary after 20 years.

6.3 A planned maintenance cycle should be introduced if an extended design life is required.

Installation

7 General

The installation of FF3 PVDF Coil-Coated Aluminium Coil and Sheet façade elements is carried out in accordance with BS 8200 : 1985 and the Certificate holder's installation instructions.

Bibliography

BS 476-3 : 1958 *Fire tests on building materials and structures — External fire exposure roof test*

BS 476-6 : 1989 *Fire tests on building materials and structures — Method of test for fire propagation for products*

BS 476-7 : 1997 *Fire tests on building materials and structures — Method of test to determine the classification of the surface spread of flame of products*

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

BS EN 515 : 1993 *Aluminium and aluminium alloys — Wrought products — Temper designations*

BS EN 573-3 : 1995 *Aluminium and aluminium alloys — Chemical composition and form of wrought products — Chemical composition*

BS EN 13523-7 : 2001 *Coil coated metals — Test methods — Resistance to cracking or bending (T-bend test)*



On behalf of the British Board of Agrément

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Chief Executive

**Original Detail Sheet issued 9th March 2004. This amended version includes a change of name of Certificate holder and product name.*

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For technical or additional information, contact the Certificate holder (see front page).
For information about the Agrément Certificate, including validity and scope, tel: Hotline 01923 665400, or check the BBA website.