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UNPLASTICIZED POLY VINYL CHLORIDE (UPVC) WALL CLADDING

STANDARDS ASSOCIATION OF AUSTRALIA
Incorporated by Royal Charter

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The following interests are represented on Committee PL/22:

Australian Institute of Building

Australian Institute of Building Surveyors

CSIRO, Division of Building Research

Housing Industry Association, NSW Division

Ministry of Consumer Affairs, Victoria

National Building Technology Centre

Plastics Institute of Australia Inc.

Royal Australian Institute of Architects

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AUSTRALIAN STANDARD

UNPLASTICIZED POLY VINYL CHLORIDE (UPVC) WALL CLADDING

AS 2920—1987

First published 1987

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PREFACE

This standard was prepared by the Association's Committee on Plastics Building Sheets under the direction of the Plastics Standards Board. It is based on a draft prepared by The Plastics Institute of Australia Inc. (PIA).

The standard specifies types, requirements for appearance, colourfastness, dimensions, thermal stability and impact resistance for extruded profiles. Relevant test methods are included as Appendices.

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard
for
UNPLASTICIZED POLY VINYL CHLORIDE (UPVC) WALL CLADDING

1 SCOPE. This standard sets out the requirements for uncoated, opaque, UPVC sheets extruded and formed into profiles for use with accessories as external wall cladding.

NOTE: Advisory information on alternative methods of determining compliance of a 'lot' with this standard is given in Appendix A.

2 APPLICATION. This standard is primarily intended to apply to UPVC wall cladding attached to new construction wall structures or over existing walls in accordance with AS 2921*.

3 REFERENCED DOCUMENTS. The following standards are referred to in this standard:

AS 1199	Sampling Procedures and Tables for Inspection by Attributes
AS 1399	Guide to AS 1199, Sampling Procedures and Tables for Inspection by Attributes
AS 1530	Methods for Fire Tests on Building Materials, Components and Structures Part 3—Test for Early Fire Hazard Properties of Materials
AS 1821-23	Suppliers Quality Control Systems
AS 2000	Guide to AS 1821-23, Suppliers Quality Control Systems
AS 2001.4.1	Methods of Test for Textiles Part 4.1—Colourfastness Tests—Definitions and General Requirements
AS 2193	Methods for Calibration and Grading of Force-measuring Systems of Testing Machines
AS 2433	Plastics—Method for Exposure to Ultraviolet Lamps
AS 2464.6	Methods of Testing Thermal Insulation Part 6—Steady State Thermal Transmission Properties by Means of the Guarded Hotplate
AS CK24†	Code of Practice for Outdoor Weathering of Plastics in the Australian Environment Part 1—Commercial Products
AS 2921	Unplasticized Poly Vinyl Chloride (UPVC) Wall Cladding—General Installation Requirements

4 TYPE. Cladding shall be classified as follows:

Type A—cladding with a bending strength of not less than 350 Nm/m and a bending rigidity of not less than 20 Nm.

Type B—cladding with a bending strength of not less than 25 Nm/m and a bending rigidity of not less than 0.10 Nm.

Values of bending strength and bending rigidity are determined in accordance with Clause 10.5.

Type A cladding can be used fixed directly to structural framing. Type B cladding can only be used when fully and continuously supported over structural framing or over existing walling.

5 DEFINITIONS. For the purpose of this standard the following definitions apply:

5.1 Cladding—any material used to face a building or structure.

5.2 Nominal width—total width after profiling or manufacturing to finished goods width.

5.3 Cover width—total amount of cover available from the cladding or facing after allowing for overlaps.

5.4 Thickness—thickness of the material constituting the wall of the cladding as distinct from the thickness of the profile.

NOTE: The material may be of a fine cellular texture or the cladding may be double-walled.

5.5 Accessories—other UPVC products required to complete the finished wall system.

6 APPEARANCE. Cladding and accessories shall be uniform in colour, opacity and finish. Cladding and accessories shall be free from scratches, dents, blisters and inclusions which would affect performance in service.

NOTE: Defects described in Clause 6 cannot be completely quantified. Where the presence, size or frequency of any of these are considered to be of concern, agreements should be made between the purchaser/Approving Authority/certifying body (as appropriate), and the manufacturer. This may be achieved by the provision of acceptable type samples.

Where defects are present and the product is submitted for acceptance, the manufacturer should be able to demonstrate fitness for purpose.

7 DIMENSIONAL REQUIREMENTS.

7.1 Length. When measured in accordance with Appendix B, the tolerance on a nominated length of any cladding shall be +10, − 5 mm.

7.2 Width. When measured in accordance with Appendix B, the tolerances on width shall be:

(a) ±2 mm on a nominated width of cladding.

(b) Individual measurements of width shall not vary from the mean determination of width by more than ±1 mm per 100 mm of width.

7.3 Squareness. When cut to length, the ends of cladding shall not deviate from a true right angle by more than 2 mm for each 100 mm of cladding width when measured in accordance with Appendix B.

7.4 Straightness. When measured in accordance with Appendix B, straightness of cladding shall not deviate by more than 5 mm for any 1 m of length.

* In course of preparation.

† In process of revision. Revised standard will be AS 1745.1.