

AS 1889.2—1985

Australian Standard[®]

PVC FLOOR TILES

Part 2—FLEXIBLE

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Adhesives and Sealants Manufacturer's Association
Australian Particleboard Manufacturer's Association
Building Owners and Managers Association of Australia Limited
Confederation of Australian Industry
CSIRO, Division of Building Research
Department of Public Works, N.S.W.
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PVC FLOOR TILES

Part 2—FLEXIBLE

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PREFACE

This standard was prepared by the Association's Committee on PVC Flooring, under the direction of the Plastics Standards Board. It supersedes in part AS 2055—1977, Flexible PVC Floor-covering.

This standard applies to PVC floor tiles made up of layers of PVC compounds of substantially the same composition and self-bonded together. It includes embossed materials but excludes tiles consisting of layers of plastics and fibrous materials, backed or sandwiched, or flooring, consisting of a base material laminated with a wear layer which may be plain, patterned, embossed or printed.

The requirements for flexible PVC tiles sheet floor-covering were previously published together in AS 2055—1977. The opportunity has been taken to separate these and AS 2055 now only specifies requirements for PVC sheet floor-covering while AS 1889 covers PVC floor tiles of various constructions.

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard

for

PVC FLOOR TILES**PART 2—FLEXIBLE**

1 SCOPE. This standard specifies requirements for flexible PVC floor-covering in the form of tiles having a smooth or embossed wearing surface.

It does not apply to tiles consisting of layers of plastics and fibrous materials, backed or sandwiched, or tiles consisting of a base material laminated with a wear layer which may be plain, patterned, embossed or printed.

NOTES:

1. Tiles having an embossed surface or other design effects penetrating any part of their thickness, may be supplied as agreed between the purchaser and supplier. The permanence of such surfaces will be dependent on the traffic density and this should be a consideration in the choice of these materials.
2. Appendix A sets out a summary of the limits applying to flexible PVC tiles tested for compliance with this standard.
3. Advisory information on the determination of compliance of a 'lot' with this standard is given in Appendix B.

2 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 1821-23 | Suppliers Quality Control Systems—Levels 1, 2 and 3 |
| AS 1886 | Glossary of Terms Relating to Plastics |
| AS 2000 | Guide to AS 1821—1823, Suppliers Quality Control Systems |
| AS 2001.4.1 | Methods of Test for Textiles, Part 4—Colourfastness Tests—Definitions and General Requirements |
| AS 2001.4.2 | Methods of Test for Textiles, Part 4—Colourfastness Tests—Determination of Colourfastness to Daylight |
| AS 2103 | Dial Gauges and Dial Test Indicators |
| AS 2193 | Methods for Calibration and Grading of Force-measuring Systems of Testing Machines |
| AS 2490 | Sampling Procedure and Charts for Inspection by Variables for Percent Defective. |

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

NOTE: The definitions listed below are taken from AS 1886.

3.1 Polymer. A substance consisting of molecules characterized by the repetition (neglecting ends, branch junctions and other minor irregularities) of one or more types of monomeric units.

3.2 Copolymer.

- (a) A polymer consisting of molecules containing large numbers of units of two or more chemically different types in irregular sequence.

NOTE: If this sequence is unknown, it is assumed to be irregular.

- (b) The product of simultaneous polymerization of two different monomers or of the grafting on of one monomer to the polymer of another monomer.

4 MATERIAL. The tile shall consist of a binder, principally vinyl chloride polymer and/or copolymer, compounded with suitable plasticizers and stabilizers. It may be blended with pigments and fillers, evenly distributed throughout to form a plain homogeneous coloured compound, or it may be blended or laminated with other similar compounds to form regular or variegated patterns, or it may be composed of chips of pigmented materials in a matrix of non-pigmented or lightly pigmented materials.

5 COLOUR AND FINISH. The colouring in the tile may be plain, variegated or patterned. Such colouring and appearance shall be uniform throughout the consignment.

NOTE: In normal manufacture, tiles from different batches may vary somewhat in hue and shade and pattern.

6 COLOURFASTNESS TO DAYLIGHT. When determined in accordance with AS 2001.4.2, the colourfastness of the tile shall be rated not less than Standard 5.

7 DIMENSIONS.

7.1 Thickness. The standard nominal thickness of tiles shall be 1.5 mm, 2.0 mm or 2.5 mm.

NOTE: Non-standard thicknesses may be supplied by special arrangement.

When measured in accordance with Appendix C, the thickness of tiles shall not vary by more than ± 0.13 mm from the nominal thickness.

7.2 Size. When measured in accordance with Appendix C, the standard size of tiles shall be 300 ± 0.25 mm square.

NOTE: Other sizes may be available as agreed between purchaser and supplier.

7.3 Squareness. When measured in accordance with Appendix C, there shall be no gap greater than 0.15 mm between the sides of a tile and the arms of the metal jig.

8 DIMENSIONAL STABILITY. When determined in accordance with Appendix D, any change in linear dimensions shall not exceed 0.25 percent.