



Asbestos-cement siding shingles

Bardeaux en amiante-ciment

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 880 was developed by Technical Committee ISO/TC 77, *Products in fibre reinforced cement*, and was circulated to the member bodies in May 1979.

It has been approved by the member bodies of the following countries :

Australia	France	New Zealand
Austria	Greece	Poland
Belgium	India	Portugal
Brazil	Ireland	Romania
Bulgaria	Israel	Spain
Chile	Italy	Switzerland
Colombia	Korea, Rep. of	Thailand
Czechoslovakia	Libyan Arab Jamahiriya	USSR
Egypt, Arab Rep. of	Mexico	Yugoslavia
Finland	Netherlands	

The member bodies of the following countries expressed disapproval of the document on technical grounds :

Germany, F. R.
Norway

This International Standard cancels and replaces ISO Recommendation R 880-1968, of which it constitutes a technical revision.

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Asbestos-cement siding shingles

1 Scope and field of application

This International Standard specifies the characteristics of, and establishes the testing methods for, asbestos-cement siding shingles.

Siding shingles are flat elements for external cladding, formed by overlapping or juxtaposing of these elements.

The shingles are classified in two categories according to their bending strength.

2 Composition

The asbestos-cement siding shingles to which the present International Standard applies consist essentially of an inorganic hydraulic binder¹⁾ or a chemical combination of silica and an inorganic binder (calcium silicate reaction) reinforced by asbestos fibres to which other fibres may be added.

Fillers and pigments may be added.

3 General appearance and finish

Siding shingles may be left in their natural colour or may be coloured in the mass; they may also receive surface coloured or uncoloured coatings.

The exposed surface may be smooth, granular or ribbed (not even). The edges shall be straight and cut square. Siding shingles may be supplied holed for fixing.

4 Characteristics

4.1 Geometrical characteristics

4.1.1 Size

150 mm × 600 mm

(200 mm × 600 mm)

300 mm × 600 mm

NOTES

1 Sizes not in brackets are preferred.

2 Smaller sizes than 600 mm may be manufactured by agreement between the customer and manufacturer.

1) National standards may specify the binder to be used.

4.1.2 Nominal thickness

4.1.2.1 Smooth siding shingles

Preferred thickness : 4 mm

4.1.2.2 Shingles with granular added coating and ribbed (not even) shingles

The thickness is determined by agreement between user and manufacturer.

4.1.3 Tolerances on dimensions

On length and width : ± 2 mm

On thickness :

a) smooth siding shingles : ± 0,5 mm

b) shingles with granular added coating and ribbed (not even) shingles : ± 25 %

The method of measuring the thickness is specified in 5.1.

4.1.4 Tolerance on shape

4.1.4.1 Straightness of edges

On width : ± 1 mm

On length : ± 2 mm

4.1.4.2 Squareness

The tolerance on squareness of the edges is maximum 0,3 %.

4.2 Physical characteristics

4.2.1 Density

When tested in accordance with 5.2.1, the siding shingles shall have a minimum density of 1,2 g/cm³. The national standards may choose a higher value in function of the climatic conditions.

4.2.2 Watertightness

When tested in accordance with 5.2.2, traces of moisture may appear on the lower surface of the shingles, but in no instance shall there be any formation of drops of water.