

# International Standard



# 392

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

## Asbestos-cement pipe fittings for building and sanitary purposes

*Accessoires en amiante-ciment pour tuyaux de bâtiment et tuyaux sanitaires*

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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 392 was prepared by Technical Committee ISO/TC 77, *Products in fibre reinforced cement*.

It cancels and replaces ISO Recommendation/R 392-1964, of which it constitutes a technical revision.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

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# Asbestos-cement pipe fittings for building and sanitary purposes

## 1 Scope and field of application

This International Standard specifies the dimensions, characteristics and acceptance tests for asbestos-cement pipe fittings used in building, such as rainwater, sanitary and sewer connections, up to the connection with the main or common sewer.<sup>1)</sup> It should be read in conjunction with ISO 391 and ISO 4633.

The commonly used fittings are bends, branches, tees, swan-necks, reducers and traps.<sup>2)</sup>

## 2 References

ISO 390, *Asbestos-cement products — Sampling and inspection*.

ISO 391, *Building and sanitary pipes in asbestos-cement*.

ISO 4633, *Rubber seals — Joint rings for water supply, drainage and sewerage pipelines — Specifications for materials*.

## 3 Fittings

### 3.1 Composition

The fittings to which this International Standard relates consist essentially of an inorganic hydraulic binder<sup>3)</sup> reinforced by asbestos fibres to which other fibres may be added<sup>4)</sup>.

Fillers and pigments may be added.

### 3.2 Types

The fittings may be of two types :

- fittings with socket;
- fittings with plain ends.

### 3.3 General appearance and finish

The external surface of the fittings shall be regular and the internal surface shall be regular and smooth. If necessary, the fittings may be coated internally and/or externally with a suitable coating.

### 3.4 Characteristics

#### 3.4.1 Geometrical characteristics

##### 3.4.1.1 Nominal diameter

The nominal diameter of the fittings corresponds to the internal diameter, ignoring tolerances.

The series of nominal diameters<sup>5)</sup> is as shown in table 1.

Table 1

50/60*
70/80*
100
125
150
200
250
300

\* The choice in each group being that of the national standards institution.

1) Fittings for sewerage and drainage are covered by ISO 881.

2) The manufacturer's catalogue shall list all fittings available.

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

4) Asbestos-cement-silica fittings to which this International Standard also relates consist essentially of an inorganic hydraulic binder and silica in chemical combination (calcium silicate reaction), reinforced by asbestos fibres to which other fibres may be added.

5) Manufacturer's catalogues shall state the actual dimensions available. When national standards provide for other diameters, these should be chosen from the preferred numbers in the R 10 series (ISO 3).