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**BS EN 295-6:2013**



BSI Standards Publication

# Vitrified clay pipes systems for drain and sewers

Part 6: Requirements for components  
of manholes and inspection chambers

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This British Standard is the UK implementation of EN 295-6:2013. It supersedes BS EN 295-6:1996 and, together with BS EN 295-1:2013, BS EN 295-2:2013, BS EN 295-4:2013, BS EN 295-5:2013, and BS EN 295-7:2013, it supersedes BS EN 295-10:2005, which is withdrawn.

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English Version

## Vitrified clay pipes systems for drain and sewers - Part 6: Requirements for components of manholes and inspection chambers

Systèmes de tuyaux en grès vitrifié pour les collecteurs  
d'assainissement et les branchements - Partie 6:  
Exigences applicables aux composants de regards et de  
boîtes d'inspection ou de branchement

Steinzeugrohrsysteme für Abwasserleitungen und -kanäle -  
Teil 6: Anforderungen an Bauteile für Einsteig- und  
Inspektionsschächte

This European Standard was approved by CEN on 1 December 2012.

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## Foreword

This document (EN 295-6:2013) has been prepared by Technical Committee CEN/TC 165 "Wastewater engineering", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by August 2013, and conflicting national standards shall be withdrawn at the latest by August 2013.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 295-6:1995 and together with EN 295-1:2013, EN 295-2:2013, EN 295-4:2013, EN 295-5:2013 and EN 295-7:2013 it supersedes EN 295-10:2005.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

The main changes with respect to the previous edition are listed below:

- reaction to fire added;
- Annex ZA added;
- editorially revised.

The standard series EN 295 "Vitrified clay pipe systems for drains and sewers" consists of the following parts:

- *Part 1: Requirements for pipes, fittings and joints*
- *Part 2: Evaluation of conformity and sampling*
- *Part 3: Test methods*
- *Part 4: Requirements for adaptors, connectors and flexible couplings*
- *Part 5: Requirements for perforated pipes and fittings*
- *Part 6: Requirements for components of manholes and inspection chambers* (the present document)
- *Part 7: Requirements for pipes and joints for pipe jacking*

According to the CEN/CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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## 1 Scope

This European Standard applies for components for vitrified clay manholes and inspection chambers for buried drain and sewer systems for the conveyance of wastewater (including domestic wastewater, surface water and rainwater) under gravity and periodic hydraulic surcharge or under continuous low head of pressure.

It specifies different strength classes and heights of sections. It also specifies the requirements for components used for joints, systems of joint dimensions and the materials rubber, polyurethane and polypropylene used for joints.

NOTE 1 The specifiers/purchasers can select the components for vitrified clay manholes and inspection chambers according to their requirements.

This standard does not apply to manhole tops and cover slabs.

NOTE 2 Corresponding provisions for the evaluation of conformity (ITT and FPC) and sampling and those for the test methods are further specified in EN 295-2 and EN 295-3, respectively.

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 295-1:2013, *Vitrified clay pipe systems for drains and sewers — Part 1: Requirements for pipes, fittings and joints*

EN 295-2:2013, *Vitrified clay pipes systems for drain and sewers — Part 6: Requirements for components of manholes and inspection chambers*

EN 295-3:2012, *Vitrified clay pipe systems for drains and sewers — Part 3: Test methods*

EN 681-1, *Elastomeric seals — Materials requirements for pipe joint seals used in water and drainage applications — Part 1: Vulcanized rubber*

EN 681-4, *Elastomeric seals — Materials requirements for pipe joint seals used in water and drainage applications — Part 4: Cast polyurethane sealing elements*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 295-1:2013, and the following apply.

### 3.1

#### **manhole**

chamber with a removable cover constructed on a drain or sewer to permit entry by personnel

[SOURCE: EN 752:2008, 3.41]

Note 1 to entry: An example of a vitrified clay manhole is given in Figure A.1.