

English version

Elastomeric seals - Material requirements for pipe joint seals used in water and drainage applications - Part 4: Cast polyurethane sealing elements

Garnitures d'étanchéité en caoutchouc - Spécification des matériaux pour garnitures d'étanchéité pour joints de canalisation utilisés dans le domaine de l'eau et de l'évacuation - Partie 4: Polyuréthane moulé

Elastomer-Dichtungen - Werkstoff-Anforderungen für Rohrleitungs-Dichtungen für Anwendungen in der Wasserversorgung und Entwässerung - Teil 4: Dichtelemente aus gegossenem Polyurethan

This amendment A1 modifies the European Standard EN 681-4:2000; it was approved by CEN on 25 February 2002.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

Foreword

This document (EN 681-4:2000/A1:2002) has been prepared by Technical Committee CEN/TC 208 "Elastomeric seals for joints in pipework and pipelines", the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by September 2002, and conflicting national standards shall be withdrawn at the latest by December 2003.

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.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Page 5, clause 3 Delete title substitute “Material requirements”

Page 10, clause 6 Delete title substitute “Factory production control”

Annex ZA
(informative)

Clauses of this European standard addressing the provisions of the EU Construction Products Directive

ZA.1 Scope and clauses of the European standard addressing the essential characteristics of the EU Construction Products Directive

With reference to Clause 1, this Annex ZA has the same scope as Clause 1.

This European standard has been prepared under a Mandate given to CEN by the European Commission and the European Free Trade Association.

The clauses of this European standard shown in table ZA.1 below meet the requirements of the Mandate given under the EU Construction Products Directive (89/106).

Compliance with these clauses confers a presumption of fitness of seals made of cast polyurethane covered by this European standard for their intended use.

WARNING: Other requirements and other EU Directives, not affecting the fitness for intended use may be applicable to a construction product falling within the scope of this standard.

NOTE In addition to any specific clauses relating to dangerous substances contained in this Standard, there may be other requirements applicable to the products falling within its scope (e.g. transposed European legislation and national laws, regulations and administrative provisions). In order to meet the **provisions** of the EU Construction Products Directive, these requirements **need** also to be complied with, when and where they apply.

Note An informative database of European and national provisions on dangerous substances is available at the Construction web site on EUROPA (CREATE, accessed through <http://europa.eu.int>).

Table ZA.1 - Relevant clauses

Construction product : Seals made of cast polyurethane			
Intended uses: For pipe joints used in sewerage and drainage applications, excluding uses in contact with water intended for human consumption			
Requirement/characteristic from the mandate	Requirement clauses in this standard	Mandated levels and/or classes	Notes
Dimensional tolerance	4.2.1	-	See ISO 3302-1
Tightness: gas and liquid	4.2.3, 4.2.4, 4.2.5	Threshold values – see table 1	ISO 37, ISO 815 and ISO 48
Release of dangerous substance	None	-	
Durability	4.2.6, 4.2.7	Threshold values – see table 1	See ISO 188 and ISO 3384

The requirement on a certain characteristic is not applicable in those Member States (MSs) where there are no regulatory requirements on that characteristic for the intended use of the product. In this case, manufacturers placing their products on the market of these MSs are not obliged to determine nor declare the performance of their products with regard to this characteristic and the option "No performance determined" (NPD) in the information accompanying the CE marking (see Clause ZA.3) may be used. The NPD option may not be used, however, where the characteristic is subject to a threshold level.

ZA.2 Systems of attestation of conformity

The system of attestation of conformity for seals made of seals made of cast polyurethane indicated in table ZA.1, in accordance with the decision of the Commission "1999/472/EC of 1 July 1999" as given in Annex III of the mandate M 131 "Pipes, tanks and ancillaries not in contact with water intended for human consumption", is shown in table ZA.2 for the indicated intended use(s).

Table ZA.2 - Attestation of conformity system

Product	Intended use	Level or class	Attestation of conformity system(s)
Joint sealings	In installations for the transport/disposal/storage of water not intended for human consumption	-	4
System 4: See CPD Annex III.2.(ii), third possibility, initial type testing by the manufacturer and manufacturer's factory production control			

The attestation of conformity of the products in table ZA.1 shall be based on the evaluation of conformity procedure resulting from the clauses of this EN indicated in table ZA.3.

Table ZA.3 - Assignment of evaluation of conformity tasks

	Tasks	Content of the task	Clauses to apply
Tasks for the manufacturer	(1) Factory production control (F.P.C)	Parameters related to all characteristics of table ZA.1	6 and 7 (excluding 7.3)
	(2) Initial type testing	All characteristics of table ZA.1	7.3

For each product, the manufacturer shall draw up a declaration of conformity (EC Declaration of conformity) including the following information:

- Name and address of the manufacturer, or his authorised representative established in the EEA,
- Description of the product (category, identification, use,)
- Provisions to which the product conforms (e.g. Annex ZA of this EN),
- Particular conditions applicable to the use of the product

- Name of, and position held by, the person empowered to sign the declaration on behalf of the manufacturer or of his authorised representative.

This declaration of conformity entitles the manufacturer to affix the CE marking, as described in ZA.3, and shall be presented in the official language or languages of the Member State of the EU in which the product is to be used.

ZA.3 CE Marking

The manufacturer or his authorised representative established within the EU or EFTA is responsible for the affixing of the CE marking.

The CE conformity symbol to affix shall be in accordance with Directive 93/68/EC and shall be shown on the packaging and/or on the accompanying commercial documents, together with the following information:

- Name or identifying mark of the producer
- The last two digits in which the marking is affixed
- Registered address of the producer
- Product type, e.g. seal material
- Reference to this European Standard
- Intended use

In addition to specific information relating to dangerous substances, if any, the product should also be accompanied, when and where required and in the appropriate form, by documentation listing any other legislation on dangerous substances for which compliance is claimed, together with any information required by that legislation.

NOTE European legislation without national derogations need not be mentioned.

Figure ZA.1 gives an example of the information to be given on the packaging and/or on the commercial documents.

<p>CE 00</p>	<p>CE conformity marking consisting of the 'CE' symbol given in directive 93/68/EC Last two digits of year of affixing of CE marking</p>
<p>Any Co Ltd, P.O. Box 21, B – 1050</p>	<p>Name or identifying mark and registered address of the producer</p>
<p>PU EN 681-4 GB</p>	<p>Seal material Number of European Standard Intended use</p>

Figure ZA.1 - Example CE marking information