
**Thermoplastics piping systems for non-
pressure underground drainage and
sewerage — Thermoplastics inspection
chamber and manhole bases — Test
methods for buckling resistance**

*Systèmes de canalisations thermoplastiques pour branchements et
collecteurs d'assainissement enterrés sans pression — Éléments de
fond de boîtes d'inspection et de branchement et de regards
thermoplastiques — Méthode d'essai de résistance au flambage*



PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

This document is a preview generated by EVS



COPYRIGHT PROTECTED DOCUMENT

© ISO 2010

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	2
5 Apparatus	2
6 Conditioning	3
7 Test environment	3
8 Procedure	3
8.1 Internal negative pressure testing using a free standing test assembly	3
8.2 Internal negative pressure testing using a test box	5
8.3 External pressure testing with the assembly submerged in a water tank	6
8.4 Evaluation	7
9 Test report	8
Annex A (informative) Evaluation example	9

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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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

ISO 13267 was prepared by Technical Committee ISO/TC 138, *Plastics pipes, fittings and valves for the transport of fluids*, Subcommittee SC 1, *Plastics pipes and fittings for soil, waste and drainage (including land drainage)*.

Thermoplastics piping systems for non-pressure underground drainage and sewerage — Thermoplastics inspection chamber and manhole bases — Test methods for buckling resistance

1 Scope

This International Standard specifies methods of test for the resistance of the base of thermoplastics inspection chambers and manholes to external soil and ground-water pressure after installation.

2 Normative references

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

ISO 9967, *Thermoplastics pipes — Determination of creep ratio*

ENV 1046:2001, *Plastics piping and ducting systems — Systems outside building structures for the conveyance of water or sewage — Practices for installation above and below ground*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

inspection chamber

drainage or sewerage fitting used for the connection of drainage or sewerage installations and for changing the direction of drainage or sewerage runs

NOTE 1 An inspection chamber terminates at ground level, permitting the introduction of cleaning, inspection and test equipment and the removal of debris, but it does not provide access for personnel. The riser shaft connected to these fittings has a minimum outer diameter of 200 mm and a maximum inside diameter of less than 800 mm.

NOTE 2 The termination at ground level permits the introduction of cleaning, inspection and test equipment and the removal of debris but does not provide access for personnel.

3.2

manhole

drainage or sewerage fitting used for the connection of drainage or sewerage installations and for changing the direction of drainage or sewerage runs

NOTE 1 A manhole terminates at ground level, permitting the introduction of cleaning, inspection and test equipment and the removal of debris, and also providing access for personnel. The minimum inside diameter of a manhole riser shaft is 800 mm.

NOTE 2 The termination at ground level permits the introduction of cleaning, inspection and test equipment and the removal of debris and provides access for personnel.