

Plastics piping and ducting systems — Injection-moulded thermoplastics fittings — Test method for visually assessing effects of heating

The European Standard EN 763:1994 has the status of a
British Standard

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee PRI/61, Plastics piping systems and components, upon which the following bodies were represented:

- British Gas plc
- British Plastics Federation
- British Plumbing Fittings Manufacturers' Association
- British Valve and Actuator Manufacturers' Association
- Department of the Environment (British Board of Agrément)
- Department of the Environment (Building Research Establishment)
- Department of the Environment (Property and Buildings Directorate)
- Department of Transport
- Electricity Association
- Federation of Civil Engineering Contractors
- Health and Safety Executive
- Institute of Building Control
- Institute of Materials
- Institution of Civil Engineers
- Institution of Gas Engineers
- Institution of Water and Environmental Management
- National Association of Plumbing, Heating and Mechanical Services Contractors
- Pipeline Industries Guild
- Plastics Land Drainage Manufacturers' Association
- Society of British Gas Industries
- Society of British Water Industries
- Water Companies Association
- Water Services Association of England and Wales

The following bodies were also represented in the drafting of the standard, through subcommittees and panels:

- ERA Technology Ltd.
- Engineering Equipment and Materials Users' Association
- RAPRA Technology Ltd.

This British Standard, having been prepared under the direction of the Sector Board for Materials and Chemicals, was published under the authority of the Standards Board and comes into effect on 15 July 1995

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National foreword

This British Standard has been prepared under the direction of the Sector Board for Materials and Chemicals and is the English language version of EN 763:1994 *Plastics piping and ducting systems — Injection-moulded thermoplastics fittings — Test method for visually assessing effects of heating*, published by the European Committee for Standardization (CEN).

It is incorporated into BS 2782 *Methods of testing plastics — Part 11: Thermoplastics pipes, fittings and valves*, as Methods 1103A: and B:1995, so that method 1103A corresponds to method A of EN 763:1994 and method 1103B corresponds to method B of EN 763:1994.

Method 1103A is a revision of BS 2782-11:Method 1103A:1982, which is withdrawn. The principal changes with respect to the 1982 edition of Method 1103A (which are not expected to have a significant effect on the results obtained) are as follows:

- a) there is no longer a requirement for conditioning for at least 30 min at (23 ± 2) °C prior to testing;
- b) there is no longer a specific requirement for measurements to be made to an accuracy of 0.1 mm;
- c) whilst the results calculated continue to be the depth of crack penetration as a percentage of the relevant wall thickness, the results from injection points are no longer designated by the symbol *T* and those from interior- or end-ring gates are no longer designated by the letters *D* or *C* respectively;
- d) the test report does not require details of the number of fittings in the production batch;
- e) guidance is provided, in Annex A, on the specification of heating times of PVC-U fittings as a function of wall thickness and temperature.

Method 1103B introduces the option of carrying out the test in a liquid bath instead of the air oven used in method A. In the event of methods A and B not giving identical results, method A is designated as the reference method in cases of dispute.

These test methods are incorporated into BS 2782 for association with related test methods for plastics materials and plastics piping components.

These methods have been prepared for reference by other standards under preparation by CEN for specification of plastics piping systems and components. They have been implemented to enable experience of the method to be gained and for use for other fresh applications.

They are also for use for the revision or amendment of other national standards as practicable, but they should not be presumed to apply to any existing standard or specification which contains or makes reference to a different test method, or a previous edition of these test methods, until that standard/specification has been amended or revised to make reference to these methods and adjust any requirements as appropriate.

Method 1103A:1982 of BS 2782 is now obsolescent and will be withdrawn when no longer required to support national standards, specifically BS 4576-1:1989, BS 4660:1989 and BS 5255:1989, pending their replacement by CEN standards currently under preparation for such types of piping systems.

WARNING NOTE. This British Standard, which is identical with EN 763:1994, does not necessarily detail all the precautions necessary to meet the requirements of the Health and Safety at Work etc. Act 1974. Attention should be paid to any appropriate safety precautions and the method should be operated only by trained personnel.