

Methods of testing

Plastics —

**Part 11: Thermoplastics pipes, fittings
and valves —**

**Method 1108A: True impact rate (TIR)
boundaries of pipes**

IMPORTANT NOTE. Before reading this method it is essential to read BS 2782-0, issued separately.

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Plastics Standards Policy Committee (PLM/-) to Technical Committee PLM/9, upon which the following bodies were represented:

British Gas plc	Health and Safety Executive
British Plastics Federation	Institution of Civil Engineers
British Plumbing Fittings Manufacturers' Association	Institution of Gas Engineers
British Valve and Actuator Manufacturers' Association	Institution of Production Engineers
Department of the Environment (Construction Industries Directorate)	Institution of Water and Environmental Management (IWEM)
Department of the Environment (Property Services Agency)	National Association of Plumbing, Heating and Mechanical Services Contractors
Department of Transport	Plastics and Rubber Institute
Electricity Supply Industry in England and Wales	Plastics Land Drainage Manufacturers' Association
Engineering Equipment and Materials Users Association	Royal Institute of Public Health and Hygiene
	Water Authorities Association
	Water Companies Association
	Water Research Centre

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

British Adhesives and Sealants Association	Institute of Plumbing
British Board of Agreement	Land Drainage Contractors Association
Heating and Ventilating Contractors' Association	Ministry of Agriculture, Fisheries and Food
	RAPRA Technology Ltd.

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Foreword

This British Standard has been prepared under the direction of the Plastics Standards Policy Committee. It describes a method for determining the resistance of plastics pipes to impact by a falling striker expressed as an estimate of the true impact rate (TIR) of a batch of pipes when tested under specified conditions. It is intended for specification or production quality control purposes, particularly but not exclusively for pipes made of unplasticized polyvinyl chloride. It has been published in Part 11 of BS 2782 to enable cross-reference by revisions of British Standard specifications for thermoplastics pipes for non-pressure applications, specifically BS 4660, BS 4576 and BS 5255, to avoid duplication of associated appendices. Account has been taken also of similar requirements currently embodied in methods of test appended to BS 5481 and BS 3505, in particular in the range of pipe sizes and nominal striker masses accommodated by this method, to enable cross-reference by those standards in due course.

In drafting this standard consideration has been given to the method described in ISO 3127:1980 *“Unplasticized polyvinyl chloride (PVC) pipes for the transport of fluids — Determination and specification of resistance to external blows”* prepared by Technical Committee TC 138 of the International Organization for Standardization (ISO). This standard differs from the International Standard in that this method is not restricted in scope to PVC pipes and does not impose a specification.

Consideration has also been given to current work by that international Technical Committee on the preparation of a method applicable to a variety of materials and providing for both similar and alternative test temperatures and TIR percentage levels, but the ISO work is not yet completed and the sampling requirements, alternative temperature and TIR levels proposed thereby have not been generally adopted or used for the purposes of British Standards for impact tests on plastics pipes.

Part 11 of BS 2782 comprises a series of methods of test normally applied to the whole range of thermoplastics pipes, fittings and valves.

WARNING. This British Standard does not necessarily detail all the precautions necessary to comply with the requirements of the Health and Safety at Work etc. Act 1974. Attention should be paid to any appropriate precautions and the method should be operated only by trained personnel.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 6, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.