



National Standards Authority of Ireland

TECHNICAL GUIDE

I.S. CEN/TS 14578:2003

ICS 23.040.01
91.140.80
93.030

**PLASTICS PIPING SYSTEMS FOR WATER
SUPPLY OR DRAINAGE AND SEWERAGE –
GLASS-REINFORCED THERMOSETTING
PLASTICS (GPR) BASED ON
UNSATURATED POLYESTER RESIN (UP) –
RECOMMENDED PRACTICE FOR
INSTALLATION**

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*This Irish Standard was
published under the
authority of the National
Standards Authority of
Ireland
and comes into effect on:
November 28, 2003*

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TECHNICAL SPECIFICATION
SPÉCIFICATION TECHNIQUE
TECHNISCHE SPEZIFIKATION

CEN/TS 14578

September 2003

ICS 23.040.01, 91.140.80, 93.030

Supersedes EN 1636-6:1997

English version

Plastics piping systems for water supply or drainage and
sewerage – Glass-reinforced thermosetting plastics (GPR)
based on unsaturated polyester resin (UP) – Recommended
practice for installation

Systèmes de canalisations plastiques pour l'adduction
d'eau et l'assainissement – Plastiques thermodurcissables
renforcés de verre (PRV) à base de résine de polyester
non saturé (UP) – Pratique recommandée pour la pose

Kunststoff-Rohrleitungssysteme für den Wasserversorgung
mit oder ohne Druck – Glasfaserverstärkten
duroplastischen Kunststoffe (GFK) auf der basis von
ungesättigtem Polyesterharz (UP) – Empfohlenes
Verfahren zur Verlegung

This Technical Specification (CEN/TS) was approved by CEN on 24 March 2003 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

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CEN/TS 14578:2003 (E)

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Foreword

This document (CEN/TS 14578:2003) has been prepared by Technical Committee CEN /TC 155, "Plastics piping systems and ducting systems" the secretariat of which is held by NEN.

This document supersedes EN 1636-6:1997 ^[1].

It is also the result of a merging of the final draft prEN 1115-6:1997 ^[2] and the draft European standard prEN 1796-6:1995 ^[3].

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

CEN/TS 14578:2003 (E)

Introduction

System Standards prEN 1796 [4] and prEN 14364 [5] specify the properties of a piping system and its components when made from glass-reinforced thermosetting plastics (GRP) based on unsaturated polyester resin (UP) intended to be used for pressure and non-pressure water or sewerage applications. A System Standard includes specifications for pipes, fittings and joints and makes reference to supporting standards covering test methods, recommended practices for installation (this Technical Specification) and procedures for assessment of conformity.

The committee is preparing a standard to cover matters such as design procedures, determination of long-term safety factors based on a semi-probabilistic approach, surge allowance and allowable negative pressures for buried GRP pipe applications. Reference to this standard will be included in the document when available.

This supporting standard, which covers practices for installation, is intended to be used in conjunction with ENV 1046 by, amongst others, end-users, authorities, design engineers, testing and certification institutes and manufacturers.

In the event of ENV 1046 being withdrawn in the future, the relevant parts of ENV 1046 will be incorporated in this standard as an addendum, so that the appropriate requirements, which were implemented in ENV 1046, remain available and applicable to System Standards for applications using GRP-UP pipes and fittings.

In this standard, much of the guidance is expressed as requirements, e.g. by use of "shall" or by instructions in the imperative. It is strongly recommended that these be followed whenever applicable.

Other guidance is presented for consideration as a matter of judgement in each case, e.g. by use of "should".

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