This is a free page sample. Access the full version online.

NSAI Standards

Irish Standard
I.S. EN 1717:2000

Protection against pollution of potable water in water installations and general requirements of devices to prevent pollution by backflow

© NSAI 2000 No copying without NSAI permission except as permitted by copyright law.

This is a free page sample. Access the full version online.

I.S. EN 1717:2000

Incorporating amendments/corrigenda issued since publication:

I.S.EN1717-2000-NA-2011

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation - recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces:

This document is based on:
EN 1717:2000

Published:
12 April, 2001

This document was published
under the authority of the NSAI
and comes into effect on:
12 April, 2001

ICS number:
13.060.20
91.140.60

NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W **NSAI.ie**

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

This is a free page sample. Access the full version online.

National Foreword

The informative National Annex (NA) provides guidance on the use of I.S. EN 1717:2000 in the Irish Water Supply System. It was prepared by the Water Supply Standards Committee of NSAI.

This is a free page sample. Access the full version online.

This page is intentionally left BLANK.

This is a free page sample. Access the full version online.

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 1717

November 2000

ICS 13.060.20; 91.140.60

English version

Protection against pollution of potable water in water installations and general requirements of devices to prevent pollution by backflow

Protection contre la pollution de l'eau potable dans les réseaux intérieurs et exigences générales des dispositifs de protection contre la pollution par retour

Schutz des Trinkwassers vor Verunreinigungen in Trinkwasser-Installationen und allgemeine Anforderungen an Sicherungseinrichtungen zur Verhütung von Trinkwasserverunreinigungen durch Rückfließen

This European Standard was approved by CEN on 20 January 2000.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a 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 European Standard 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, 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

© 2000 CEN All rights of exploitation in any form and by any means reserved worldwide for CEN national Members.

Ref. No. EN 1717:2000 E

This is a free page sample. Access the full version online.

Contents

Foreword 3

Introduction 4

1 Scope 5

2 Normative references 5

3 Terms and definitions 5

4 Pollution of potable water : general observations 7
4.1 Backflow of used water 7
4.2 Connection 7
4.3 External influences 8
4.4 Materials 8
4.5 Stagnation 8
4.6 Harm caused by inadequate or improper maintenance 8

5 Analysis method of the risks at the point of use and choice of protection 8
5.1 General remarks 8
5.2 Determination of fluid categories which are or could be in contact with potable water 9
5.3 Determination of the installation characteristics 10
5.4 Separation by single or double walls 10
5.5 Air break to drain 11
5.6 Installation matrix 11
5.7 Protection units 11
5.8 Matrix of the protection units appropriate to fluid categories 13

6 Point of use protection for equipment at the draw-off point for domestic uses 15
6.1 Choice of the protection units to be implemented 15
6.2 Location of the protection units 15

7 Point of use protection of particular equipment for non domestic uses 15

8 Protection at the connection point to the public potable water system 15

9 Air break to drain 15

Annex A (normative) **Reference list of the protection units** 17

Annex B (informative) **Guide table for determining the fluid category from which protection is required** 48

Annex C (informative) **Summary of the analysis method** 50

Bibliography 51

This is a free page sample. Access the full version online.

Foreword

This European Standard has been prepared by Technical Committee CEN/TC 164, "Water supply", the secretariat of which is held by AFNOR.

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 month of May 2001, and conflicting national standards shall be withdrawn at the latest by May 2001.

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, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Annex A of this European Standard is normative, the annexes B and C are informative.

This is a free page sample. Access the full version online.

Introduction

In respect of potential adverse effects on the quality of water intended for human consumption, caused by the products covered by this standard :

1) this standard provides no information as to whether the products may be used without restriction in any of the Member state of the EU or EFTA ;

2) it should be noted that, while awaiting the adoption of verifiable European criteria, existing national regulations concerning the use and/or the characteristics of these products remain in force.

This is a free page sample. Access the full version online.

1 Scope

This standard deals with the means to be used to prevent the pollution of potable water inside premises and the general requirements of protection devices to avoid pollution by backflow.

The hygiene protection specifications of this standard are applicable to all the standards for systems or appliances connected to the private supply system for water intended for human consumption.

This standard specifies the minimum requirements for product standards of protection units.

The product standards are used to detail product specifications. In the absence of a product standard, this standard is used as a reference in order to draw up a specification for the products out of new development.

2 Normative references

This European Standard incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

prEN 806, *Specification for installations inside buildings conveying water for human consumption*.

3 Terms and definitions

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

3.1
air break to drain
the unobstructed distance between the low point of overflow, discharge or drain of a device or installation, leading from a water apparatus, and the top point of the device which collects this water

3.2
air gap
the physical break between the lowest level of the water inlet and the maximum fault level or critical level of an appliance or installation, a feed pipe, or an air inlet orifice incorporated into a hydraulic circuit

3.3
air inlet
an orifice designed to admit air from the atmosphere into a hydraulic circuit

3.4
appliance, equipment
a device in which the potable water is used and/or is modified e.g. water heater, chemical dosing unit, coffee-machine, WC-pan

3.5
backflow
movement of the fluid from downstream to upstream within an installation

3.6
backflow protection device
a device which is intended to prevent contamination of potable water by backflow

3.7
contamination
result of rendering impure by contact or mixture, to corrupt, defile, pollute, sully, taint or infect

SAI GLOBAL

This is a free preview. Purchase the entire publication at the link below:

Product Page

Looking for additional Standards? Visit Intertek Inform Infostore

Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation