



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

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

I.S. EN 1717:2000

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 page is intentionally left BLANK.

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

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

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.

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.

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

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](#)
-