Irish Standard
I.S. EN 15377-2:2008

Heating systems in buildings - Design of embedded water based surface heating and cooling systems - Part 2: Design, dimensioning and installation

I.S. EN 15377-2:2008

Incorporating amendments/corrigenda issued since publication:

This standard replaces:	*This standard is based on:* EN 15377-2:2008	*Published:* 25 June, 2008

This Irish Standard was published under the authority of the NSAI and comes into effect on:
13 August, 2008

ICS number:
91.140.10
91.140.30

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

Price Code:
I

Údarás um Chaighdeáin Náisiúnta na hÉireann

I.S. EN 15377-2:2008

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 15377-2

June 2008

ICS 91.140.10; 91.140.30

English Version

Heating systems in buildings - Design of embedded water based surface heating and cooling systems - Part 2: Design, dimensioning and installation

Systèmes de chauffage dans les bâtiments - Conception des systèmes de chauffage et refroidissement par le sol, le mur et le plafond - Design, dimensionnement et installation

Heizungsanlagen in Gebäuden - Planung von eingebetteten Flächenheiz- und -kühlsystemen mit Wasser als Arbeitsmedium - Teil 2: Planung, Auslegung und Installation

This European Standard was approved by CEN on 22 May 2008.

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 CEN 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 CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, 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

Ref. No. EN 15377-2: E

Contents

Page

Foreword

This document (EN 15377-2:2008) has been prepared by Technical Committee CEN/TC 228 “Heating systems in buildings”, the secretariat of which is held by DS.

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 December 2008, and conflicting national standards shall be withdrawn at the latest by December 2008.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document is based on EN 1264-3 and -4, but has been modified to include cooling and other surface systems than floor heating. When EN 1264-3 and -4 are revised, the present standard will be superseded by the revised EN 1264-3 and -4.

The subjects covered by CEN/TC 228 are the following:

— design of heating systems (water based, electrical, etc.);

— installation of heating systems;

— commissioning of heating systems;

— instructions for operation, maintenance and use of heating systems;

— methods for calculation of the design heat loss and heat loads;

— methods for calculation of the energy performance of heating systems;

— methods for design and dimensioning of embedded water based surface heating and cooling systems.

Heating systems also include the effect of attached systems such as hot water production systems.

All these standards are systems standards, i.e. they are based on requirements addressed to the system as a whole and not dealing with requirements to the products within the system.

Where possible, reference is made to other European or International Standards, a.o. product standards. However, use of products complying with relevant product standards is no guarantee of compliance with the system requirements.

The requirements are mainly expressed as functional requirements, i.e. requirements dealing with the function of the system and not specifying shape, material, dimensions or the like.

The guidelines describe ways to meet the requirements, but other ways to fulfil the functional requirements might be used if fulfilment can be proved.

Heating systems differ among the member countries due to climate, traditions and national regulations. In some cases requirements are given as classes so national or individual needs may be accommodated.

In cases where the standards contradict with national regulations, the latter should be followed.

EN 15377 *Heating systems in buildings — Design of embedded water based surface heating and cooling systems* consists of the following parts:

— *Part 1: Determination of the design heating and cooling capacity;*

— *Part 2: Design, dimensioning and installation;*

— *Part 3: Optimizing for use of renewable energy sources.*

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.