

Irish Standard I.S. EN 1264-4:2009

Water based surface embedded heating and cooling systems - Part 4: Installation

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I.S. EN 1264-4:2009

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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:

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English Version

Water based surface embedded heating and cooling systems - Part 4: Installation

Systèmes de surfaces chauffantes et rafraîchissantes hydrauliques intégrées - Partie 4: Installation

Raumflächenintegrierte Heiz- und Kühlsysteme mit Wasserdurchströmung - Teil 4: Installation

This European Standard was approved by CEN on 1 August 2009.

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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.

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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

This document (EN 1264-4:2009) has been prepared by Technical Committee CEN/TC 130 "Space heating appliances without heat sources", the secretariat of which is held by UNI.

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of an identical text or by endorsement, at the latest by March 2010, and conflicting national standards shall be withdrawn at the latest by March 2010.

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 supersedes EN 1264-4:2001. Together with EN 1264-3:2009, this document also supersedes EN 15377-2:2008.

The series of European Standards EN 1264 "Water based surface embedded heating and cooling systems" consists of the following parts:

Part 1: Definitions and symbols;

Part 2: Floor heating: Prove methods for the determination of the thermal output of floor heating

systems using calculation and test methods;

Part 3: Dimensioning;

Part 4: Installation:

Part 5: Heating and cooling surfaces embedded in floors, ceilings and walls — Determination of the

thermal output.

The two main changes with respect to EN 1264-4:2001 are listed below:

a) The scope is expanded over floor heating, now additionally includes ceiling and wall heating as well as cooling surfaces in floors, ceilings and walls;

b) The content generally is attuned to the state of the technology.

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.

1 Scope

This European Standard applies to heating and cooling systems embedded into the enclosure surfaces of the room to be heated or to be cooled.

This document specifies uniform requirements for the design and the construction of heating and cooling floor, ceiling and wall structures to ensure that the heating/cooling systems are suited to the particular application.

The requirements specified by this Standard apply only to the components of the heating/cooling systems which are part of the heating/cooling system. This document excludes all other elements which are not part of the heating/cooling system.

2 Normative References

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1057:2006, Copper and copper alloys - Seamless, round copper tubes for water and gas in sanitary and heating applications

EN 1254 (all parts), Copper and copper alloys — Plumbing fittings

EN 1264-1:1997, Water based surface embedded heating and cooling systems - Part 1: Definitions and symbols

EN 1264-2, Water based surface embedded heating and cooling systems - Part 2: Floor heating: Prove methods for the determination of the thermal output using calculation and test methods

EN ISO 15874-1, Plastics piping systems for hot and cold water installations - Polypropylene (PP) - Part 1: General (ISO 15874-1:2003)

EN ISO 15874-2, Plastics piping systems for hot and cold water installations - Polypropylene (PP) - Part 2: Pipes (ISO 15874-2:2003)

EN ISO 15874-3, Plastics piping systems for hot and cold water installations - Polypropylene (PP) - Part 3: Fittings (ISO 15874-3:2003)

EN ISO 15874-5, Plastics piping systems for hot and cold water installations - Polypropylene (PP) - Part 5: Fitness for purpose of the system (ISO 15874-5:2003)

EN ISO 15875-1, Plastics piping systems for hot and cold water installations - Crosslinked polyethylene (PE-X) - Part 1: General (ISO 15875-1:2003)

EN ISO 15875-2, Plastics piping systems for hot and cold water installations - Crosslinked polyethylene (PE-X) - Part 2: Pipes (ISO 15875-2:2003)

EN ISO 15875-3, Plastics piping systems for hot and cold water installations - Crosslinked polyethylene (PE-X) - Part 3: Fittings (ISO 15875-3:2003)

EN ISO 15875-5, Plastics piping systems for hot and cold water installations - Crosslinked polyethylene (PE-X) - Part 5: Fitness for purpose of the system (ISO 15875-5:2003)



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