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Standards

Irish Standard  
I.S. EN 12050-4:2015

# Wastewater lifting plants for buildings and sites - Part 4: Non-return valves for faecal-free wastewater and wastewater containing faecal matter

## I.S. EN 12050-4:2015

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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## Wastewater lifting plants for buildings and sites - Part 4: Non-return valves for faecal-free wastewater and wastewater containing faecal matter

Stations de relevage d'effluents pour les bâtiments et terrains - Partie 4 : Dispositifs anti-retour pour effluents contenant ou non des matières fécales

Abwasserhebeanlagen für die Gebäude- und Grundstücksentwässerung - Teil 4: Rückflussverhinderer für fäkalienfreies und fäkalienhaltiges Abwasser

This European Standard was approved by CEN on 17 January 2015.

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## EN 12050-4:2015 (E)

### Foreword

This document (EN 12050-4:2015) has been prepared by Technical Committee CEN/TC 165 “Wastewater engineering”, the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by September 2015 and conflicting national standards shall be withdrawn at the latest by December 2016.

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 12050-4:2000.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of the Regulation (EU) No. 305/2011.

For relationship with EU Regulation, see informative Annex ZA, which is an integral part of this document.

The standard series EN 12050 “*Wastewater lifting plants for buildings and sites*” consists of the following parts:

- Part 1: *Lifting plants for wastewater containing faecal matter*
- Part 2: *Lifting plants for faecal-free wastewater*
- Part 3: *Lifting plants for limited applications*
- Part 4: *Non-return valves for faecal-free wastewater and wastewater containing faecal matter*

The main changes with respect to the previous edition are listed below:

- a) reaction to fire added;
- b) paragraph title “Evaluation of conformity” changed to “Assessment and verification of constancy of performance – AVCP” and updated;
- c) Annex ZA updated in accordance with “Implementation of the Construction Products Regulation (CPR) in harmonized standards” (adoption of the Regulation EU No. 305/2011);
- d) editorially revised.

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, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## 1 Scope

This European Standard applies to non-return valves used for faecal-free wastewater and wastewater containing faecal matter lifting plants. This Standard specifies general requirements, basic construction and testing principles together with information on materials and the relevant assessment and verification of constancy of performance.

## 2 Normative references

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

EN 12050-1:2015, *Wastewater lifting plants for buildings and sites — Part 1: Lifting plants for wastewater containing faecal matter*

EN 12050-2:2015, *Wastewater lifting plants for buildings and sites — Part 2: Lifting plants for faecal-free wastewater*

EN 12050-3:2015, *Wastewater lifting plants for buildings and sites — Part 3: Lifting plants for limited applications*

EN 13501-1, *Fire classification of construction products and building elements — Part 1: Classification using data from reaction to fire tests*

EN 13823, *Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item*

EN ISO 20361, *Liquid pumps and pump units - Noise test code - Grades 2 and 3 of accuracy (ISO 20361)*

## 3 Terms, definitions, symbols and abbreviations

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

### 3.1 Terms and definitions

#### 3.1.1

##### **non-return valve**

part of a wastewater lifting plant that prevents backflow of wastewater from the discharge pipe system which is either integrated in or a separate part of the plant

#### 3.1.2

##### **integrated non-return valve**

non-return valve which is a constructed part of the wastewater lifting plant - integrated in the plant or built in the plant by the manufacturer

#### 3.1.3

##### **backwash device**

part of the non-return valve which allows draining of the discharge pipe system and venting of the pumping device

#### 3.1.4

##### **maximum pump operating pressure**

maximum hydrostatic pressure that the pumping device is capable to create

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