



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 12255-9:2002

ICS 13.060.30

**WASTEWATER TREATMENT PLANTS -  
PART 9: ODOUR CONTROL AND  
VENTILATION**

National Standards  
Authority of Ireland  
Dublin 9  
Ireland

Tel: (01) 807 3800  
Tel: (01) 807 3838

*This Irish Standard was  
published under the  
authority of the National  
Standards Authority of  
Ireland  
and comes into effect on  
March 8, 2002*

**NO COPYING WITHOUT NSAI  
PERMISSION EXCEPT AS  
PERMITTED BY COPYRIGHT  
LAW**

© NSAI 2002

**Price Code G**

Údarás um Chaighdeán Náisiúnta na hÉireann



EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 12255-9**

January 2002

ICS 13.060.30

English version

**Wastewater treatment plants - Part 9: Odour control and  
ventilation**

Stations d'épuration - Partie 9: Maîtrise des odeurs et  
ventilation

Kläranlagen - Teil 9: Geruchsminderung und Belüftung

This European Standard was approved by CEN on 20 December 2001.

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, Malta, 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

|   | page      |
|---|-----------|
| <b>Foreword.....</b>  | <b>3</b>  |
| <b>1 Scope .....</b>  | <b>5</b>  |
| <b>2 Normative references .....</b>   | <b>5</b>  |
| <b>3 Terms and definitions.....</b>   | <b>5</b>  |
| <b>4 Design principles .....</b>  | <b>6</b>  |
| 4.1 General.....  | 6         |
| 4.2 Sources and nature of odours.....   | 7         |
| 4.3 Odour measurement.....  | 8         |
| 4.4 Planning .....  | 8         |
| 4.4.1 Preliminary considerations.....   | 8         |
| 4.4.2 Detailed planning.....  | 9         |
| 4.4.3 Criteria for selection .....  | 10        |
| 4.5 Design requirements .....   | 11        |
| 4.5.1 General.....  | 11        |
| 4.5.2 Chemical addition .....   | 11        |
| 4.5.3 Treatment of odorous air .....  | 11        |
| 4.5.4 Design of covers .....  | 11        |
| 4.5.5 Design of ventilation plant .....   | 12        |
| 4.6 Process requirements .....  | 12        |
| 4.7 Maintenance and Operation.....  | 13        |
| <b>Annex A (informative) Odour potential and odour emission capacity, measurement of odour emission rate.....</b> | <b>14</b> |
| <b>A.1 Odour Potential and Odour Emission Capacity.....</b>   | <b>14</b> |
| <b>Bibliography .....</b>   | <b>16</b> |

## Foreword

This European Standard 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 July 2002, and conflicting national standards shall be withdrawn at the latest by December 2002.

It is the ninth part prepared by the Working Groups CEN/TC 165/WG 42 and 43 relating to the general requirements and processes for treatment plants for a total number of inhabitants and population equivalents (PT) over 50. The parts of the series are as follows:

- Part 1: General construction principles
- Part 3: Preliminary treatment
- Part 4: Primary settlement
- Part 5: Lagooning processes
- Part 6: Activated sludge processes
- Part 7: Biological fixed-film reactors
- Part 8: Sludge treatment and storage
- Part 9: Odour control and ventilation
- Part 10: Safety principles
- Part 11: General data required
- Part 12: Control and automation
- Part 13: Chemical treatment – Treatment of wastewater by precipitation/flocculation
- Part 14: Disinfection
- Part 15: Measurement of the oxygen transfer in clean water in aeration tanks of activated sludge plants
- Part 16: Physical (mechanical) filtration<sup>1)</sup>

NOTE For requirements on pumping installations at wastewater treatment plants, provided initially as part 2 "Pumping installations for wastewater treatment plants", see EN 752-6 "Drain and sewer systems outside buildings — Part 6: Pumping installations".

The parts EN 12255-1, EN 12255-3 to EN 12255-8 and EN 12255-10 and EN 12255-11 were implemented together as a European package (Resolution BT 152/1998).

---

<sup>1)</sup> In preparation.

## **EN 12255-9:2002 (E)**

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

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
-