



NSAI
Standards

Irish Standard
I.S. EN 14654-2:2021

Drain and sewer systems outside buildings - Management and control of activities - Part 2: Rehabilitation

I.S. EN 14654-2:2021

Incorporating amendments/corrigenda/National Annexes issued since publication:

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/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

This document is based on:

EN 14654-2:2021

Published:

2021-01-20

This document was published under the authority of the NSAI and comes into effect on:

2021-02-07

ICS number:

93.030

NOTE: If blank see CEN/CENELEC cover page

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

National Foreword

I.S. EN 14654-2:2021 is the adopted Irish version of the European Document EN 14654-2:2021, Drain and sewer systems outside buildings - Management and control of activities - Part 2: Rehabilitation

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

For relationships with other publications refer to the NSAI web store.

Compliance with this document does not of itself confer immunity from legal obligations.

In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

This page is intentionally left blank

EUROPEAN STANDARD

EN 14654-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2021

ICS 93.030

Supersedes EN 14654-2:2013

English Version

Drain and sewer systems outside buildings - Management and control of activities - Part 2: Rehabilitation

Réseaux d'évacuation et d'assainissement à l'extérieur
des bâtiments - Gestion et contrôle des activités
opérationnelles - Partie 2: Réhabilitation

Entwässerungssysteme außerhalb von Gebäuden -
Management und Überwachung von Maßnahmen - Teil
2: Sanierung

This European Standard was approved by CEN on 6 December 2020.

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-CENELEC 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-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN 14654-2:2021 (E)

Contents		Page
European foreword		3
1	Scope	4
2	Normative references	4
3	Terms and definitions	4
4	General	6
5	Integrated sewer system management planning	6
6	Preparation of rehabilitation programme	6
6.1	Introduction	6
6.2	Review of the rehabilitation plan	6
6.3	Investigation	7
6.4	Assessment	7
6.5	Development of the programme	8
7	Preparation of the project specification	14
7.1	Introduction	14
7.2	Review of the project description and project objectives	14
7.3	Investigation	14
7.4	Assessment	14
7.5	Drafting the project specification	15
7.6	Performance indicators	18
8	Implementation of projects	19
8.1	Introduction	19
8.2	Rehabilitation report	19
9	Measurement of conformity	19
9.1	Measuring conformity with the project specification	19
9.2	Non-conformities	20
9.3	Post project appraisal	20
10	Review of plan and programme	20
Bibliography		21

European foreword

This document (EN 14654-2:2021) 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 2021, and conflicting national standards shall be withdrawn at the latest by July 2021.

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

This document supersedes EN 14654-2:2013.

The changes to the text in this document are largely editorial and relate to the separation of the duplicated text. Annex A has also been deleted as this is now incorporated into EN 752:2017. The technical changes made is the addition of 7.5.5 on detailed design of the optimal solution.

EN 14654 consists of the following parts, under the general title *Drain and sewer systems outside buildings — Management and control of activities*:

- *Part 1: General*
- *Part 2: Rehabilitation*; (the present document)
- *Part 3: Drain and sewer cleaning*
- *Part 4: Control of inputs from users*

Other parts, dealing with other activities, may be added later.

In drafting this part of EN 14654, account has been taken of other available standards, in particular EN 752, *Drain and sewer systems outside buildings* and EN 13508 *Investigation and assessment of drain and sewer systems outside buildings*.

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

EN 14654-2:2021 (E)

1 Scope

This document establishes requirements for the management and control of activities in drain and sewer systems outside buildings and specifies requirements for development and implementation of work programmes, and the selection of techniques.

This document covers the management and control of rehabilitation activities.

It is applicable to drain and sewer systems from the point where wastewater leaves a building, roof drainage system, or paved area, to the point where it is discharged into a wastewater treatment plant or receiving water body.

Drains and sewers below buildings are included provided that they do not form part of the drainage system of the building.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 752:2017, *Drain and sewer systems outside buildings — Sewer system management*

EN 13508-1:2012, *Investigation and assessment of drain and sewer systems outside buildings — Part 1: General Requirements*

EN 14654-1:2021, *Drain and sewer systems outside buildings - Management and control of activities — Part 1: General*

EN 16323:2014, *Glossary of wastewater engineering terms*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 16323:2014, EN 14654-1:2021 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia available at <http://www.electropedia.org/>

NOTE: Certain key definitions from EN 16323:2014 have been repeated below for clarity. The following additional terms used in this document are defined in EN 16323:2014.

- drain
- sewer
- receiving water body
- surface receiving water body
- sewer system
- wastewater treatment plant

3.1 extraneous water

unwanted flow in a drain or sewer system

[SOURCE: EN 16323:2014, definition 2.1.4.7]

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](#)
-