

ICS 93.030; 23.040.05

English Version

Drain and sewer systems outside buildings - Sewer system management

Réseaux d'évacuation et d'assainissement à l'extérieur
des bâtiments - Gestion du réseau d'assainissement

Entwässerungssysteme außerhalb von Gebäuden -
Management von Abwassersystemen

This draft amendment is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 165.

This draft amendment A1, if approved, will modify the European Standard EN 752:2017. If this draft becomes an amendment, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration.

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European foreword

This document (EN 752:2017/prA1:2025) has been prepared by Technical Committee CEN/TC 165 “Waste water engineering”, the secretariat of which is held by DIN.

This document is currently submitted to the CEN Enquiry.

The principal changes in this amendment are broadly limited to various textual amendments and additions relating to climate change.

1 Modification to “Introduction”

At the end of the 8th paragraph, add the following:

“Additionally, increased water resource scarcity or increased rainfall due to climate change determines that rainwater recycling and sustainable discharge of stormwater should be a primary focus when considering the planning, design, rehabilitation and management of drains and sewers outside of buildings. Such approaches which will support drainage systems that serve local communities becoming more sustainable and adaptive to the needs determined by our changing climate, through promoting water sensitive urban development/design.”

In the 9th paragraph, replace “This concept” with “These concepts”, to read:

“These concepts are included in the approach of integrated sewer management.”

Replace the lists in the 12th and 13th paragraphs as follows:

“Design and construction standards include:

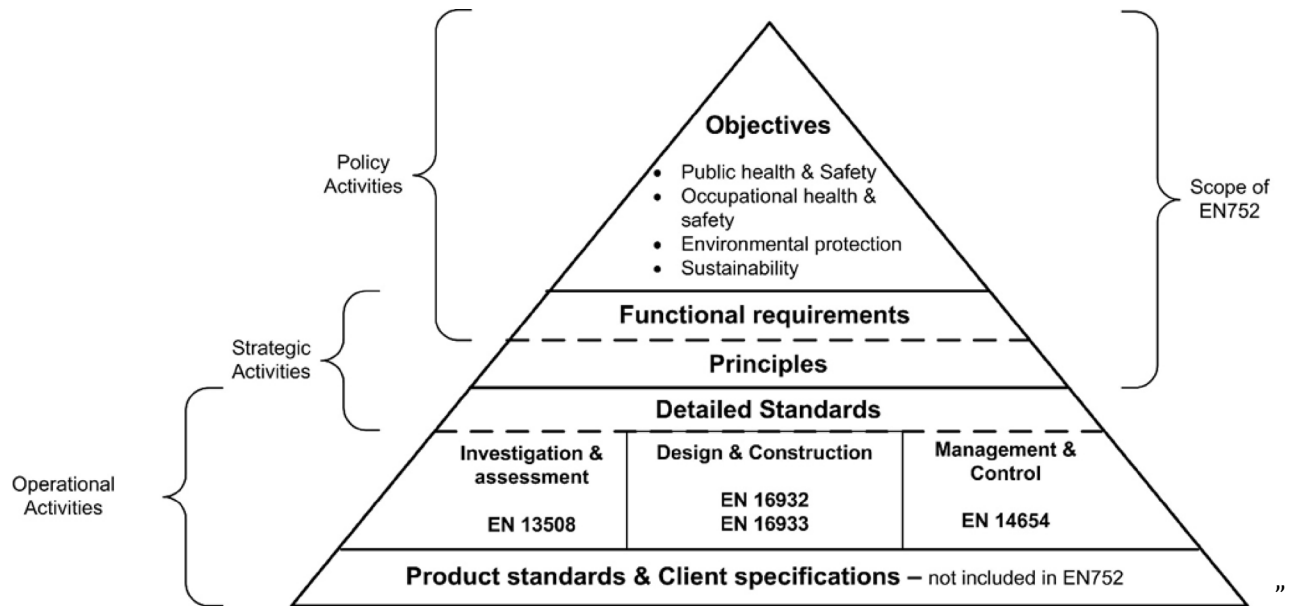
- EN 16932 (all parts), *Drain and sewer systems outside buildings — Pumping systems,*
- EN 16933 (all parts), *Drain and sewer systems outside buildings — Design,*
- EN 1295 (all parts), *Structural design of buried pipelines under various conditions of loading,*
- EN 1610, *Construction and testing of drains and sewers,*
- EN 12889, *Trenchless construction and testing of drains and sewers,*
- EN 15885, *Classification and characteristics of techniques for renovation and repair of drains and sewers.*

Management and control standards include:

- EN 14654 (all parts), *Drain and sewer systems outside buildings — Management and control of activities.”*

Replace Figure 1 with the following figure:

“



In the 2nd paragraph below Figure 1, replace “(No 305/2011)” with “(No xxx/2024)”

2 Modification to “Scope”

Add after the 2nd paragraph:

“This document pays regard to the extremes of the changing climate and seeks to acknowledge the associated impacts on existing drain and sewer systems outside of buildings and futureproof associated aspects of those systems that are to be planned for and designed in the future.”

3 Modification to Clause 2, “Normative references”

Replace “EN 13508-1, *Investigation and assessment of drain and sewer systems outside buildings — Part 1: General Requirements*” with “EN 13508 (all parts), *Drain and sewer systems outside buildings — Investigation and assessment*”

Replace “EN 14654-1, *Management and control of operational activities in drain and sewer systems outside buildings — Part 1: Cleaning*” with “EN 14654 (all parts), *Drain and sewer systems outside buildings — Management and control of operational activities*”.

Replace “prEN 16932 (all parts)” with “EN 16932 (all parts)”.

Replace “prEN 16933-2, *Drain and sewer systems outside buildings — Design — Part 2: Hydraulic design*” with “EN 16933 (all parts), *Drain and sewer systems outside buildings — Design*”

4 Modification to Clause 3 “Terms and definitions”

Add the following new terms and definitions after 3.1, and renumber the subsequent definitions:

“3.2

climate change

long-term shifts in temperatures and weather patterns

Note 1 to entry: Such shifts can be natural, due to changes in the sun’s activity or large volcanic eruptions., however since the 1800s, human activities have been the main driver of climate change, primarily due to the burning of fossil fuels like coal, oil and gas

3.3 combined sewer overflow storm discharge

water discharged from a combined sewer overflow during heavy rainfall”

In the new definition 3.4 (former 3.2), add the following Note 1 to entry:

“Note 1 to entry: Design Working Life” can often be significantly longer than “design life” and is of critical importance when calculating the longer-term resilience of drainage infrastructure, to, for example, climate change impacts.”

[SOURCE: EN 1990:2002, modified to provide consistency with the terminology in EN 16323]”

Move definition 3.18 to after 3.4, so it becomes 3.5.

Add the following two new definitions at the end of the clause:

3.23 sustainable urban drainage or blue green infrastructure

network of surface waters, groundwater, measures and facilities for stormwater management as well as public and private green spaces.”

Note 1 to entry: Sustainable urban drainage or blue green infrastructure combines the issues concerns of water management, urban planning, road and open space planning and climate protection in terms of function and design

3.24 water-sensitive urban design

land planning and engineering design approach which integrates the urban water cycle, including stormwater, groundwater, and wastewater management and water supply, into urban design to minimise environmental degradation and improve aesthetic and recreational appeal”

5 Modification to Clause 4.5 “Sustainable development”

Add the following new list item:

“d) can remain resilient to changes in weather patterns, extreme weather events, and other impacts caused by climate change over its design working life.”

6 Modification to Subclause 5.1.1 “Introduction”

Replace Table 1 by the following Table:

“

Clause No	Public health and safety	Occupational health and safety	Environmental protection	Sustainable development
<i>Functional requirements relating to the system</i>				
5.1.2 Protection from sewer flooding	XXX	XX	XXX	XXX
5.1.3 Maintainability	XX	XXX	XX	XX
5.1.4 Protection of surface receiving water bodies	XXX	X	XXX	XX