



BSI Standards Publication

Environmental aspects of ductile iron pipe systems for water and sewerage applications

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National foreword

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A list of organizations represented on this committee can be obtained on request to its secretary.

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English Version

Environmental aspects of ductile iron pipe systems for water and sewerage applicationsAspects environnementaux des systèmes de canalisations
en fonte ductile pour l'eau et l'assainissementUmweltrelevante Aspekte von Rohrleitungssystemen aus
duktilen Gusseisen für die Wasserversorgung und die
Abwasserentsorgung

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Contents		Page
Foreword.....		3
1	Scope	4
2	Normative references	4
3	General guidance.....	4
3.1	Provisions dealing with the introduction of environmental aspects into European Standards	4
3.2	Life cycle approach (LCA) for ductile iron pipe systems	5
3.3	Assessment of environmental impacts of ductile iron pipe systems	5
4	Overview of environmental aspects of ductile iron pipe systems in water and sewerage applications	5
4.1	General.....	5
4.2	Ductile iron pipe systems for water supply and pressurised sewers	6
4.2.1	Energy savings	6
4.2.2	Recycling	6
4.3	Ductile iron pipes for gravity sewerage applications	7
4.3.1	Construction and service stages	7
4.3.2	Recycling	7
4.4	Trenchless applications of ductile iron pipe systems	7
4.4.1	General.....	7
4.4.2	Advantages.....	7
4.4.3	Direct savings	8
4.4.4	Economic savings	8
Bibliography		9

Foreword

This document (CEN/TR 16470:2013) has been prepared by Technical Committee CEN/TC 203 “Cast iron pipes, fittings and their joints”, the secretariat of which is held by AFNOR.

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1 Scope

This Technical Report applies to all water and sewerage applications of ductile iron pipe systems and provides a structure on how to identify and consider environmental aspects and potential environmental impacts of ductile iron pipe systems throughout their life cycle.

This Technical Report gives guidance on how the life cycle of ductile iron pipelines should be considered in accordance with EN ISO 14044. This Technical Report also includes health and safety aspects related to the production, use and recycling of ductile iron pipe systems.

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 15804, *Sustainability of construction works — Environmental product declarations — Core rules for the product category of construction products*

EN ISO 14044, *Environmental management — Life cycle assessment — Requirements and guidelines (ISO 14044)*

ISO/TR 14062, *Environmental management — Integrating environmental aspects into product design and development*

CEN Guide 4:2008, *Guide for addressing environmental issues in product standards*

3 General guidance

3.1 Provisions dealing with the introduction of environmental aspects into European Standards

European Standards concerning ductile iron pipe systems currently exist without any direct reference for the user to environmental awareness and the possible environmental aspects and potential impacts. This does not necessarily lead to pipe systems which are less environmentally friendly, because the user has other incentives when considering environmental aspects, such as installation considerations, legal requirements etc. However, the inclusion of environmental provisions encourages the consideration of environmental aspects in cases where such incentives do not exist.

In many cases, it is sufficient to include the necessary provisions when revising European Standards dealing with ductile iron pipe systems by the inclusion of a new clause or sub-clause where the relevant environmental aspects are formulated or by reference to this Technical Report.

Environmental impacts related to ductile iron pipe systems are affected by product standardisation. Any such impacts should be considered together with other factors, such as:

- a) product function;
- b) performance;
- c) health and safety;
- d) total cost of ownership/life cycle costing;
- e) quality;
- f) legal and regulatory requirements.