



NSAI
Standards

Irish Standard
I.S. 6: 2004

Concrete Sewer Pipes

© NSAI 2004

No copying without NSAI permission except as permitted by copyright law.

I.S. 6: 2004

Incorporating amendments/corrigenda issued since publication:

<i>This document replaces:</i> I.S. 6 : 1974	<i>This document is based on:</i> I.S. 6:2004 I.S. 6:1974	<i>Published:</i> 21 January, 1974
This document was published under the authority of the NSAI and comes into effect on: 4 March, 2005		ICS number: 91.140.80 93.020 23.040.50
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 Price Code: G
Údarás um Chaighdeáin Náisiúnta na hÉireann		

Foreword

I.S. 6:2004 Concrete Sewer Pipes specifies requirements for circular precast concrete pipe and ancillary concrete products.

I.S. 6:2004 has been prepared by the National Standards Authority of Ireland's, Waste Water Engineering Consultative Committee. It is a revision of I.S. 6:1974 and is to be used in conjunction with I.S. EN 1916:2004.

In order not to create any barrier to trade, products under the scope of this Irish Standard are specified as conforming to "I.S. EN 1916 and I.S. 6, or equivalent".

I.S. EN 1916:2004 does not contain all the requirements of the existing national specifications of CEN members because complete agreement could not be achieved. I.S. 6:2004 contains requirements from I.S. 6:1974 that could not be agreed upon for inclusion in EN 1916.

For an enquiry or order to be fully understood it is essential that the manufacturer be given the information set out in Annex A of I.S. 6:2004.

Product certification. Users of I.S. 6:2004 are advised to consider the desirability of third party certification of product conformity with this Irish Standard. Appropriate conformity attestation arrangements are described in I.S. EN 1916:2004. Users seeking assistance in identifying appropriate conformity assessment bodies or schemes may ask NSAI to forward their enquiries to the relevant association.

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

Compliance with an Irish Standard does not of itself confer immunity from legal obligations.

DECLARATION

OF

SPECIFICATION

ENTITLED

CONCRETE SEWER PIPES

AS

THE IRISH STANDARD SPECIFICATION FOR

CONCRETE SEWER PIPES

NSAI in exercise of the power conferred by section 16 (5) of the National Standards Authority of Ireland Act, 1996 (No. 28 of 1996) and with the consent of the Minister for Enterprise, Trade and Employment, hereby declare as follows:

1. This instrument may be cited as the Standard Specification (Concrete sewer pipes) Declaration, 2004.
2. (1) The Specification set forth in the Schedule to this declaration is hereby declared to be the standard specification for Concrete sewer pipes.

(2) The said standard specification may be cited as Irish Standard 6:2004 or as I.S. 6:2004.
3. (1) The Standard Specification (Concrete sewer pipes) Declaration 1974, is hereby revoked.

(2) Reference in any other standard specification to the Instrument hereby revoked and to Irish Standard 6:1974, thereby prescribed, shall be construed, respectively, as references to this Instrument and to Irish Standard 6:2004.

CONTENTS

	Page
Foreword	1
Declaration	2
CLAUSES	
1 Scope	4
2 Normative references	4
3 Terms and definitions	5
4 Symbols	5
5 General requirements	6
6 Special requirements	12
7 Conformity evaluation	12
8 Marking	13
ANNEXES	
A (informative) Information to be supplied in an enquiry or order	14
B (normative) Standards relevant to I.S. EN 1916:2004	14
C (normative) Surface finish tests	15
D (normative) Dimensional tests	15
E (normative) Lifting anchorage pull-out test	17
Figures	
C.1 – Gauge for assessing surface voids	15
D.1 – Gauge for measuring deviation from straightness	17
E.1 – Diagram of typical anchorage pull-out testing machine on longitudinal section of unit wall	18
Tables	
1 – Symbols	5
2 – Cementitious content	7
3 – Cement groups	7
4 – Nominal sizes and tolerances of units with a circular bore, for use in a trench	9
5 – Minimum crushing loads for strength class 120 units with circular bore for use in a trench	11
B.1 – Irish Standards relevant to I.S. EN 1916:2004	14

SCHEDULE CONCRETE SEWER PIPES

1 Scope

I.S. EN 1916:2004 specifies requirements and describes test methods for precast concrete pipes and fittings, unreinforced, steel fibre and reinforced, with flexible joints and nominal sizes not exceeding DN 1750 or WN/HN 1200/1800, for which the main intended use is the conveyance of sewage, rainwater and surface water under gravity or occasionally at low head of pressure in pipelines that are generally buried.

I.S. 6:2004 specifies complementary requirements to those in I.S. EN 1916:2004 for un-reinforced and reinforced concrete pipes and fittings, as provided for in that European Standard, with nominal sizes not exceeding DN 3000 for circular pipes.

2 Normative references

The following referenced documents are indispensable for the application 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.

BS 146, *Specification for blastfurnace cements with strength properties outside the scope of I.S. EN 197-1.*

EN 1260:2002, *Aggregates for concrete.*

BS 3123, *Specification for spring calipers and spring dividers.*

BS 3892-1, *Pulverized-fuel ash — Part 1: Specification for pulverized-fuel ash for use with Portland cement.*

BS 4027, *Specification for sulfate-resisting Portland cement.*

BS 4035, *Specification for linear measuring instruments for use on building and civil engineering constructional works — Steel measuring tapes, steel bands and retractable steel pocket rules.*

BS 4449, *Specification for carbon steel bars for the reinforcement of concrete.*

BS 4482, *Specification for cold reduced steel wire for the reinforcement of concrete.*

BS 4483, *Steel fabric for the reinforcement of concrete.*

BS 4484-1, *Specification for measuring instruments for constructional works — Part 1: Metric graduation and figuring of instruments for linear measurement.*

BS 4921, *Specification for sherardized coatings on iron or steel.*

BS 4994, *Specification for design and construction of vessels and tanks in reinforced plastics.*

BS 5204-1, *Specification for straightedges — Part 1: Cast iron straightedges (bow shaped and I-section).*

BS 5204-2, *Specification for straightedges — Part 2: Steel or granite straightedges of rectangular section.*

BS 5480, *Specification for glass reinforced plastics (GRP) pipes, joints and fittings for use for water supply or sewerage.*

BS 6699, *Specification for ground granulated blastfurnace slag for use with Portland cement.*

I.S. EN 197-1, *Cement — Part 1: Composition, specifications and conformity criteria for common cements.*

I.S. EN 681-1, *Elastomeric seals — Material requirements for pipe joint seals used in water and drainage applications — Part 1: Vulcanized rubber.*

I.S. EN 934-2, *Admixtures for concrete, mortar and grout — Part 2: Concrete admixtures — Definitions, requirements, conformity, marking and labelling.*

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
-