



NSAI
Standards

Irish Standard
I.S. 265:2000+A1:2014

Installation of Gas Service Pipes - Parts 1 and 2 (Fourth Edition) (including amendment No. 1)

© NSAI 2014 No copying without NSAI permission except as permitted by copyright law.

I.S. 265:2000+A1:2014

Incorporating amendments/corrigenda/National Annexes issued since publication:

I.S. 265:2000/A1:2014

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.

<i>This document replaces:</i> I.S. 265:Part 1 & 2:1994	<i>This document is based on:</i> I.S. 265:2000+A1:2014	<i>Published:</i> 16 May, 2014
This document was published under the authority of the NSAI and comes into effect on: 16 May, 2014		ICS number: 91.140.40
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		

Declaration

OF

SPECIFICATION

ENTITLED

INSTALLATION OF GAS SERVICE PIPES

PARTS 1 AND 2

(FOURTH EDITION)

AS

THE IRISH STANDARD SPECIFICATION FOR

INSTALLATION OF GAS SERVICE PIPES

PARTS 1 AND 2


(FOURTH EDITION)

NSAI in exercise of the power conferred by section 16(3) 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 declares as follows:

1. This instrument may be cited as the Standard Specification (Installation of gas service pipes, Parts 1 and 2 (Fourth Edition)) Declaration, 2000.
2. (1) The Specification set forth in the Schedule to this declaration is hereby declared to be the standard specification for Installation of gas service pipes, Parts 1 and 2 (Fourth Edition).
(2) The said standard specification may be cited as Irish Standard 265 : 2000 or as I.S. 265 : 2000.
3. (1) The Standard specification (Installation of gas service pipes, Parts 1: Construction (Third Edition)) Declaration, 1994 and (Installation of gas service pipes, Parts 2: Operation) Declaration, 1994 are hereby revoked.
(2) Reference in any other standard specification to the instruments hereby revoked and to Irish Standard 265: Part 1: 1994 and Irish Standard 265 : Part 2: 1994 thereby prescribed, shall be construed, respectively, as references to this Instrument and to Irish Standard 265:2000.

Contents

Declaration	1
Foreword.....	5
PART 1: CONSTRUCTION	6
1 Scope	6
2 Reference standards	6
3 Definitions	7
4 Responsibility	10
5 Materials and workmanship.....	10
5.1 Construction.....	10
5.2 Corrosion resistance	11
5.3 Materials specification	11
5.4 Installation of various pipe materials	11
5.4.1 Copper	11
5.4.2 A₁ Steel services A₁	11
5.4.3 Polyethylene.....	11
6 General requirements for all gas services	12
6.1 Design considerations	12
6.1.1 Permitted locations.....	12
6.1.2 Other services	13
6.1.3 Corrosion protection	13
6.1.4 Above ground services	13
6.1.5 Impairment of structure	13
6.1.6 Cavity walls	13
6.1.7 Sleeving	13
6.1.8 Installing under or adjacent to foundations.....	14
6.1.9 Depth of cover.....	14
6.1.10 Condensation	14
6.2 Open trench techniques, excavation and backfill	14
6.2.1 Bedding.....	14
6.2.2 Marker tape.....	14
6.2.3 Backfilling.....	14
6.3 No-dig techniques.....	14
6.4 Electrical requirements	15
6.4.1 Insulation joints	15
6.4.2 Electrical bonding.....	15
6.4.3 Equipotential bonding	15
6.4.4 Notice	15
6.5 Laying of services.....	15
6.5.1 Uncontrolled loss of gas	15
6.5.2 Admission of gas	15
6.5.3 Connection to main	15
6.5.4 Anti-shear sleeve	15
7 New services to domestic premises	16
7.1 General.....	16
7.1.1 Service valve	16
7.1.2 Location of service valve	16
7.1.3 Operating pressures.....	16
7.2 Service termination.....	16
7.2.1 Service termination to single occupancy buildings.....	16
7.2.2 Service termination to multi-occupancy buildings	16
7.3 Service risers, extended	17
7.3.1 Location of service risers, extended	17
7.3.2 Support of service risers, extended.....	17
7.3.3 Internal service riser, material.....	17
7.4 Service laterals.....	17

7.4.1	Location of service laterals	17
7.4.2	Protection of service laterals	17
7.5	Service ducts	17
7.5.1	Location of service ducts	17
7.5.2	Construction of service ducts	17
7.5.3	Access to internal service ducts containing gas service pipes	18
8	New services to non-domestic premises	18
8.1	General.....	18
8.1.1	Service valve	18
8.1.2	Locations of service valve	18
8.1.3	Identification of service valves	18
8.1.4	Pressure	19
8.2	Service termination, non-domestic buildings.....	19
8.3	Service risers, extended, and service laterals.....	19
8.3.1	General.....	19
8.3.2	Protection against lightning	19
8.3.3	Pipe identification.....	19
8.3.4	Pipework in service ducts.....	19
9	Service renewals.....	20
9.1	General.....	20
9.2	Point of delivery	20
9.3	Termination of renewed services.....	20
9.4	Removal of service riser or meter.....	20
9.5	Electrical continuity.....	21
9.6	Isolation of electrical supply	21
10	Testing	21
10.1	Persons responsible	21
10.2	Test certificate	21
10.3	Test precautions	21
10.3.1	Occupied building	21
10.3.2	Pipe restraint.....	21
10.4	Test pressure and duration	21
10.4.1	Test pressure and duration for service pipes up to and including nominal 50 mm internal diameter	21
10.4.2	Test pressure and duration for services greater than 50 mm nominal internal diameter	21
10.5	Service risers, extended	22
10.6	Protective coatings.....	22
10.7	Backfilling.....	22
11	Commissioning.....	22
11.1	General.....	22
11.2	Purging	22
11.3	Capping and sealing.....	22
11.4	Bedding.....	22
12	Records.....	22
Part 2 : OPERATION		23
13	Scope	23
14	Responsibility	23
15	Service monitoring	23
16	Decommissioning.....	24
17	Repairs to service pipes	24
18	Records.....	24
Annexe A  (normative) Domestic meter installations		26
A.1	Meters – primary source of gas	26
A.1.1	General.....	26
A.1.2	Selection of meter and controls.....	26
A.1.3	Meter location	26

A.1.4	Meter installation	27
A.1.5	Warning notices	28
Annexe B	Ⓐ (normative) Non – Domestic meter installations	29
B.1	General.....	29
B.2	Gas pipework within service shafts.....	29
B.3	Safety devices	30
B.4	Resistance to fire	30
B.5	Regulators and meters	30
B.6	Pipework in stairways	31
Annexe C	Ⓐ (informative) Examples of pipework configurations.....	32

This is a free 8 page sample. Access the full version online.

Foreword

This Standard has been drafted by the Distribution Technical Committee TC1 of the Gas Technical Standards Committee.

The Standard has been prepared to meet the need for minimum and adequate standards and procedures to be used for gas service pipes.

Reference should be made to any relevant legislation, bylaws or regulations in force, including the Safety, Health and Welfare at Work Act 1989, (and Regulations there under), and the Building Control Act 1990.

It is recommended that gas supply installations to new developments are discussed and agreed at the early design stage with the relevant gas operator.

Only competent persons should be engaged in the implementation of this Standard.

Future experience acquired in the laying of gas service pipes, and the advent of new technology and material may lead to revisions of this standard being issued at appropriate intervals.

This Standard supersedes I.S. 265, Part 1 (1994) (Third Edition) and I.S. 265, Part 2 (1994).

The scopes of both parts of this standard cover operating pressures less than or equal to 5 bar. The requirements for operating pressures greater than 5 bar and less than or equal to 16 bar will be covered in a future Part 3 of the Standard.

Amendments are indicated by the TAG **A1** **A1**

A1 This amendment (I.S. 265:2000/A1:2014) has been prepared by Technical Committee GTSC TC 1 and NSAI. **A1**

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

Schedule

Installation of gas service pipes Parts 1 and 2 (Fourth edition)

PART 1: CONSTRUCTION

1 Scope

1.1 Part 1 of this standard covers the design, installation, testing, commissioning and record keeping of gas service pipes for the supply of manufactured gas, natural gas and liquefied petroleum gas, at operating pressures not exceeding 5 bar.

1.2 It is not intended to be retroactive. However, existing gas service pipes shall be upgraded to the requirements of this standard when they are to undergo total renewal. In the case of gas service pipes which are partially renewed, then that part of the service which is renewed shall be upgraded to the requirements of this standard.

1.3 It covers services in steel, copper and polyethylene (PE).

1.4 This standard is applicable to gas service pipes, connected to a gas distribution system, up to and including the point of delivery A_1 and meter installation A_1 .

1.5 For requirements relating to the direct supply of gas to a building from storage vessels, or for requirements relating to pipework A_1 and A_1 ancillaries A_1 A_1 downstream of the point of delivery of gas, refer to:

I.S. EN 1775 (Gas Supply - Gas Pipework for Buildings - Maximum operating pressure \leq 5 bar - Functional recommendations), and to

I.S. 813 (Domestic Gas Installations), or

I.S. 820 (Non-domestic Gas Installations) as appropriate.

1.6 For the scope of Part 2 of this standard see clause 13.

2 Reference standards

This Standard incorporates by dated or undated reference, provisions from other publications. These references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

I.S. 266, *Polyethylene (PE) Pipes and Fittings for Natural Gas, Manufactured Gas and LPG.*

I.S. 329, *Gas Distribution Mains.*

I.S. 813, *Domestic Gas Installations.*

I.S. 820, *Non-Domestic Gas Installations.*

ETCI rules, *National rules for electrical installations (ET 101).*

I.S. EN 1057, *Copper and copper alloys – seamless, round copper tubes for water and gas in sanitary and heating applications.*

I.S. EN 1775, *Gas Supply - Gas Pipework for Buildings - Maximum operating pressure \leq 5 bar – Functional Recommendations.*

This is a free preview. Purchase the entire publication at the link below:

**I.S. 265 : 2000 : INC : AMD 1 : 2014 : EN :
COMBINED PDF**

-
- ⊙ Looking for additional Standards? Visit SAI Global Infostore
 - ⊙ Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-

Need to speak with a Customer Service Representative - Contact Us