



NSAI
Standards

Irish Standard
I.S. 820:2010

Non-domestic gas installations (Edition 2)

I.S. 820:2010

Incorporating amendments/corrigenda/National Annexes issued since publication:

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I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

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SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

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<p>Údarás um Chaighdeáin Náisiúnta na hÉireann</p>					

DECLARATION
OF
SPECIFICATION

ENTITLED
NON-DOMESTIC GAS INSTALLATIONS – (EDITION 2)

AS

THE IRISH STANDARD SPECIFICATION FOR
NON-DOMESTIC GAS INSTALLATIONS – (EDITION 2)

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 Innovation, hereby declare as follows:

1. This instrument may be cited as the Standard Specification (Non-domestic gas installations – (Edition 2)) Declaration, 2010.

2. (1) The Specification set forth in the Schedule to this declaration is hereby declared to be the standard specification for Non-domestic gas installations – (Edition 2).

(2) The said standard specification may be cited as Irish Standard 820:2010 or as I.S. 820:2010.

3. (1) The Standard Specification (Non-domestic gas installations) Declaration 2000 and Amendment No. 1: 2003 are hereby revoked.

(2) Reference in any other standard specification to the Instruments hereby revoked and to Irish Standard 820:2000 and Amendment No. 1:2003 thereby prescribed, shall be construed, respectively, as references to this Instrument and to Irish Standard 820:2010.

Contents

Page

Declaration	1
Foreword.....	6
1 Scope	8
2 References.....	8
3 Definitions	10
3.1 General definitions	10
3.2 Additional definitions relating to jointing methods	17
3.3 Additional definitions relating to pipework assembly processes	17
4 Design	18
4.1 General.....	18
4.2 Design for protection in case of fire	18
4.3 Material selection.....	19
4.4 Pipework installation design	19
4.4.1 Sizing	19
4.4.2 Location	20
4.4.3 Safety devices	21
4.5 Declaration	21
5 Construction.....	21
5.1 Installation	21
5.2 Materials and jointing methods.....	22
5.2.1 General.....	22
5.2.2 Welded, brazed, soldered and fusion joints	22
5.2.3 Mechanical joints	22
5.2.4 Threaded mechanical joints	23
5.2.5 Pressed joints	23
5.2.6 Corrugated Stainless Steel Tubing (CSST).....	24
5.3 Resistance to fire.....	24
5.4 Provisions for pipework.....	24
5.4.1 Corrosion protection	24
5.4.2 Equipotential bonding.....	24
5.4.3 External pipework.....	25
5.5 Internal buried pipework.....	26
5.6 Internal concealed pipework	26
5.6.1 General.....	26
5.6.2 Pipework passing through solid and cavity walls, solid floors or solid ceilings	26
5.6.3 Pipework in voids	27
5.7 Pipework in service shafts.....	27
5.8 Pipework in stairways	27
5.9 Lift shafts.....	27
5.10 Indoor LPG pipework below ground level (e.g. Basements).....	27
5.11 Means of isolation.....	28
5.12 Flexible appliance connectors	28
5.13 Regulators and meters.....	29
6 Testing of pipework.....	29
6.1 Safety	29
6.2 Strength and soundness test	29
6.2.1 General.....	29
6.2.2 Test equipment	30

6.2.3	Test fluids.....	30
6.2.4	Stabilisation	30
6.2.5	Test pressure	30
6.2.6	Test duration.....	31
6.2.7	Verification	31
7	Pipework commissioning	31
7.1	General	31
7.2	Fitness test.....	32
8	Admission of gas.....	32
8.1	General	32
8.2	Purging	32
8.3	Admission of gas to appliances	33
9	Declaration of conformance	33
9.1	General	33
9.2	Installation declaration	33
9.2.1	General	33
9.2.2	General information	33
9.2.3	Design.....	34
9.2.4	Construction and testing.....	34
9.2.5	Commissioning.....	34
9.2.6	Additional information required.....	34
9.3	Appliance declaration	34
9.3.1	General	34
9.3.2	Additional information	35
10	Use and maintenance.....	35
10.1	General recommendations	35
10.2	Maintenance	36
10.3	Gas releases	36
10.4	Leak detection	37
10.5	Operating pipework.....	37
10.6	Purging of fuel gas	38
10.7	Re-admission of fuel gas to an existing installation	38
11	Appliances	38
11.1	General	38
11.2	The appliance.....	38
11.3	Appliances in educational establishments.....	39
11.4	Appliance location.....	39
11.5	Combustion products dispersal/flueing	39
11.6	Provision of air	40
11.7	Appliance commissioning.....	40
11.7.1	General	40
11.7.2	Minimum requirements of commissioning an appliance	41
Annex A	(informative) Gas characteristics.....	42
A.1	Characteristics.....	42
A.2	Odourisation	42
Annex B	(normative) Gas supply systems.....	43
B.1	General	43
B.2	Natural gas supply systems	43
B.3	LPG supply systems	43
B.3.1	General	43
B.3.2	LPG bulk tank systems.....	43
B.3.3	Supply considerations for LPG cylinders.....	44
B.3.4	Installation and storage of LPG cylinders in use, for non-domestic buildings	44
B.4	Gas flow rates	50
Annex C	(normative) Open flue appliances, flue design considerations	51

I.S. 820:2010

C.1	General	51
C.2	Open flues for appliances fired by pressure jet burners	51
C.3	Open flues for appliances fired by natural draught burners	51
C.4	Open fan assisted flues for appliances fired by natural draught burners	52
C.4.1	General	52
C.4.2	Fan assisted flue acceleration	52
C.4.3	Fan assisted flue dilution	52
C.5	Open flues for modular boiler installations	52
Annex D	(informative) Declarations and notices	54
D.1	Example of Declaration of conformity to I.S. 820	54
D.2	Example of Appliance conformity declaration - I.S. 820	55
D.3	Example of Notification of hazard	56
Annex E	(normative) Safety inspections of existing non-domestic installations	57
E.1	General	57
E.2	Scope of inspection	57
E.3	Required actions	57
E.4	Soundness test of an existing installation	57
E.5	Visual inspection of exposed pipework	58
E.6	Appliance location	58
E.7	Combustion air	58
E.8	Adequacy of connected flue	58
Annex F	(informative) Examples of pipework configurations	59
Annex G	(informative) (Excerpt from) The Gas Appliance Directive (GAD)	64
Annex H	(normative) Service shaft ventilation	70
H.1	Ventilation and sub-division of vertical service shafts (other than ventilation ducts)	70
H.2	Gas pipework within service shafts	70
Annex I	(normative) Educational establishments - requirements	71
I.1	General	71
I.2	Supervision	71
I.3	Isolation of gas supply	71
I.4	Supervisory systems	72
I.4.1	General	72
I.4.2	Commissioning the supervisory system	72
I.4.3	Use and maintenance	72
I.5	Appliance connection	72
Annex J	(informative) Guidelines for the construction of joints	73
J.1	General	73
J.2	Operatives	73
J.3	Quality control	74
J.4	Documentation	74
Annex K	(informative) Guidelines for the construction of welded, brazed, soldered joints and polyethylene fusion joints	75
K.1	Welding of steel	75
K.1.1	Materials	75
K.1.2	Approval of the welding procedure	75
K.1.3	Pipework with a maximum operating pressure (MOP) up to and including 0,1 bar and wall thickness of up to and including 4 mm	76
K.1.4	Pipework with a maximum operating pressure (MOP) over 0,1 bar or wall thickness above 4 mm	76
K.2	Brazing and soldering of copper and copper alloys	77
K.2.1	Materials	77
K.2.2	Brazing and soldering procedure	78
K.2.3	Pipework with a maximum operating pressure (MOP) up to and including 0,1 bar	78
K.2.4	Pipework with a maximum operating pressure (MOP) over 0,1 bar	78
K.3	Fusion jointing of polyethylene	79

K.3.1	Materials	79
K.3.2	Polyethylene fusion jointing procedure.....	79
K.3.3	Qualification of personnel	80
K.3.4	Quality control	80
Annex L	(informative) Guidelines for the construction of pressed joints.....	82
L.1	Jointing procedure with press fittings on pipework.....	82
L.1.1	General	82
L.1.2	Installation process.....	82
Annex M	(informative) Guidelines for the construction of stainless steel pliable corrugated pipework systems	84
M.1	General	84
M.2	Components of the system	84
M.3	Stainless steel pliable corrugated pipework systems jointing procedure.....	84
M.3.1	General	84
M.3.2	Training of personnel.....	84
M.3.3	Quality control	85
Annex N	(informative) Environment checklist	86
Bibliography	87

I.S. 820:2010

Foreword

This Irish Standard was developed by the NSAI, Gas Technical Standards Committee (GTSC), Technical Committee 2 (TC 2) - Installations and Appliances.

Acknowledgement is given to the following that were consulted in the development of this Irish Standard:

- | | |
|--|---|
| — Irish LPG Association | — Gas Installer Review Panel |
| — Bord Gáis Networks | — Department of Enterprise Trade and Innovation |
| — Bord Gáis Energy | — Mr. Pat Walshe |
| — Calor Teoranta | — Mr. Liam Ó hAlmhain |
| — Flogas Ireland Ltd. | — ETCI |
| — Registered Gas Installers of Ireland | — NSAI |
| — Department of Communications, Energy and Natural Resources | |

In preparing this Irish Standard the assumption has been made that the reader has suitable knowledge and understanding of the subject. This Irish Standard represents a standard of good practice but compliance with it does not confer immunity from relevant legal requirements, regulations and local by-laws. In addition, this Irish Standard does not consider contractual arrangements, qualifications or authorisations, imposed by gas suppliers or public authorities, upon companies who design, construct or work on gas installations.

All persons engaged in gas installation work should be aware of their duties under the current Building Regulations and the Local Government (Multi-Storey Buildings) Regulations, 1988 (S.I. No. 286 of 1988).

All persons engaged in gas installation work shall be aware of their duties under the Energy (Miscellaneous Provisions) Act 2006 and the Definition for the Scope of Gas Works under Commission for Energy Regulation (CER) document CER/09/032

The installation, commissioning, maintenance, repair and removal of gas services are subject to the requirements of the Safety, Health and Welfare at Work (Construction) Regulations.

This Irish Standard updates and supersedes I.S. 820:2000 – *Non-domestic gas installations*.

Reference has been made to I.S. EN 1775 (*Gas supply - Gas pipework for buildings - Maximum operating pressure less than or equal to 5 bar - Functional recommendations*) in compiling this standard.

Requirements for LPG installations have been included.

The safe operation and maintenance of the installation downstream of the point of delivery is, from the time of commissioning, the responsibility of the owner/occupier(s) of the premises supplied (see clause 10).

Attention is drawn to the requirements of the European Council Directive on the approximation of the laws of the Member States relating to appliances burning gaseous fuels (90/396/EEC, repealed by 2009/142/EC) and implemented by published Statutory Instruments.

This Irish Standard may involve the use of substances and procedures that may be injurious to health and/or the environment if adequate precautions are not taken. It refers only to technical suitability and does not absolve the user from legal obligations at any stage.

Protection of the environment is taken in a very broad sense. What is meant is the total life cycle aspects of, e.g. a product on the environment, including expenditure of energy and during all phases from mining of raw materials, fabrication, packaging, distribution, use, scrapping, recycling of materials, etc. Annex N lists the clauses that address environmental aspects.

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

Schedule

Non-domestic gas installations (Edition 2)

1 Scope

This Irish Standard specifies the requirements for natural gas and LPG installations in commercial and public access buildings at maximum operating pressures not exceeding 5 bar and industrial gas installations at maximum operating pressures not exceeding 0,5 bar, from the point of delivery up to and including the appliance(s) in non-domestic premises.

The requirements for the installation of domestic type appliances in non-domestic buildings are set out in I.S. 813. The requirements for pipework supplying these appliances are included in this Standard.

NOTE 1 For industrial gas installations at pressures at or exceeding 0,5 bar, reference can be made to I.S. EN 15001-1.

NOTE 2 It is possible to have more than one type of gas installation within one building.

Included are requirements relating to:

- the design, construction and testing of pipework, pipework ancillaries and meters for new installations as well as to replaced parts of, or extensions to, existing installation pipework;
- purging of air from, and the admission of gas to, pipework installations and handover to the operator;
- the installation and commissioning of appliances;
- the safe operation and maintenance of installations in use.

The requirements for the installation of gas service pipes to the point of delivery are set out in I.S. 265 where gas is supplied from:

- a) a natural gas main, or
- b) an LPG distribution system.

2 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.

I.S. 265, *Installation of Gas Service Pipes*.

I.S. 370, *Colour code for buried plastics piping*

I.S. 813, *Domestic gas installations*.

I.S. 3213, *Code of Practice for the Storage of LPG Cylinders and Cartridges*.

I.S. 3216, *Code of Practice for the Bulk Storage of Liquefied Petroleum Gas*.

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