

# **Drain and sewer systems outside buildings**

## **Part 1. Generalities and definitions**

The European Standard EN 752-1 : 1995 has the status of a  
British Standard

ICS 13.060.30

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## Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Technical Committee B/505, Wastewater engineering, to Subcommittee B/505/22, Drainage systems outside buildings, upon which the following bodies were represented:

Association of Consulting Engineers  
 British Plastics Federation  
 Clay Pipe Development Association Limited  
 Concrete Pipe Association  
 Department of the Environment  
 Department of the Environment (Property and Buildings Directorate)  
 Fibre Cement Manufacturers' Association Limited  
 Institute of British Foundrymen  
 Institution of Civil Engineers  
 Institution of Water and Environmental Management  
 METCOM  
 Water Services Association of England and Wales

The following bodies were also represented in the drafting of the standard, through subcommittees and panels.

Association of Building Engineers  
 British Pump Manufacturers' Association  
 Department of the Environment (Building Research Establishment)  
 Department of the Environment for Northern Ireland  
 Health and Safety Executive  
 Institute of Building Control  
 Institute of Plumbing

This British Standard, having been prepared under the direction of the Sector Board for Building and Civil Engineering, was published under the authority of the Standards Board and comes into effect on 15 April 1996

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## National foreword

This Part of BS EN 752 has been prepared by Subcommittee B/505/22 and is the English language version of EN 752-1 : 1995 *Drain and sewer systems outside buildings — Part 1: Generalities and definitions* published by the European Committee for Standardization (CEN).

This Part was published as a result of international discussion and agreement in which the UK took an active part. It will be followed in due course by Parts 2 to 7:

- Part 2 Performance requirements
- Part 3 Planning
- Part 4 Hydraulic design and environmental considerations
- Part 5 Rehabilitation
- Part 6 Pumping installations
- Part 7 Maintenance and operations

This Part of BS EN 752 supersedes BS 8005 : Part 0 : 1987 which is withdrawn and clause 4 of BS 8301 : 1985 which is deleted by amendment.

**Compliance with a British Standard does not of itself confer immunity from legal obligations.**

EUROPEAN STANDARD  
 NORME EUROPÉENNE  
 EUROPÄISCHE NORM

EN 752-1

November 1995

ICS 13.060.30

Descriptors: Sanitation, water removal, buildings, exterior, definitions, generalities

English version

## Drain and sewer systems outside buildings — Part 1: Generalities and definitions

Réseaux d'évacuation et d'assainissement à  
 l'extérieur des bâtiments —  
 Partie 1: Généralités et définitions

Entwässerungssysteme außerhalb von  
 Gebäuden —  
 Teil 1: Allgemeines und Definitionen

This European Standard was approved by CEN on 1995-11-11. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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Ref. No. EN 752-1 : 1995 E

## Foreword

This European Standard was prepared by the Technical Committee CEN/TC 165, Wastewater engineering, of which the secretariat is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 1996, and conflicting national standards shall be withdrawn at the latest by May 1996.

This Part is the first in a series relating to the functional requirements of drain and sewer systems outside buildings that operate essentially under gravity. There will be seven parts, as follows:

Part 1 Generalities and definitions

Part 2 Performance requirements

Part 3 Planning

Part 4 Hydraulic design and environmental considerations

Part 5 Rehabilitation

Part 6 Pumping installations

Part 7 Maintenance and operations

In drafting this Part, account has been taken of other available draft standards, in particular prEN 476 *General requirements for components used in discharge pipes, drains and sewers for gravity systems*.

In accordance with the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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## 1 Scope

This European Standard applies to drain and sewer systems, which operate essentially under gravity, from the point where the sewerage leaves a building or roof drainage system, or enters a road gully, to the point where it is discharged into a treatment works or receiving water.

Drains and sewers below buildings are included provided that they do not form part of the drainage system of the building.

This Part covers general matters and sets out definitions of terms that relate to the functional requirements of drain and sewer systems outside buildings. These definitions are not intended to be legal definitions.

## 2 Normative references

There are no normative references in this standard.

## 3 Definitions

For the purposes of this standard the following definitions apply. These should be read in conjunction with supplementary definitions appearing in other Parts of this standard.

### 3.1 aquifer

Water-bearing stratum within the earth's crust.

### 3.2 backdrop manhole

Manhole with a connection, by means of a vertical pipe, at or just above invert, from a drain or sewer at a higher level.

### 3.3 backwater level

Sewerage level predicted or occurring in a drain or sewer system upstream of a given control section.

### 3.4 catchment area

Area draining to a drain, sewer or watercourse.

### 3.5 combined sewer overflow; stormwater overflow

Device, on a combined or partially separate sewer system or at a sewerage treatment works, that relieves the system of excess flow.

### 3.6 combined system

Sewer system designed to carry both wastewater and surface water in the same pipeline(s).

### 3.7 common trench

Trench in which more than one pipe is located.

### 3.8 control section

Section of a drain or sewer system where hydraulic conditions are known and where any change in those conditions influences the upstream and/or downstream water levels.

### 3.9 detention tank

Tank or reservoir for the temporary storage of sewerage.

### 3.10 domestic wastewater

Wastewater discharged from kitchens, laundry rooms, lavatories, bathrooms, toilets and similar facilities.

### 3.11 drain

Pipeline, usually underground, designed to carry wastewater and/or surface water from a source to a sewer.

### 3.12 drainage service

Natural or artificial system for the draining of a catchment area.

### 3.13 drain system

Network of pipelines and ancillary works that conveys wastewater and/or surface water to a cesspool, sewer system or other place of disposal.

### 3.14 dry weather flow

Rate of flow in a drain or sewer system in specified dry weather conditions.

### 3.15 exfiltration

Escape of sewerage from a drain or sewer system into surrounding ground.

### 3.16 extraneous water

Unwanted flow in a drain or sewer system.

### 3.17 flooding

Condition where wastewater and/or surface water escapes from or cannot enter a drain or sewer system and either lies on the surface or enters buildings (see also surface flooding).

### 3.18 flow simulation

Modelling of flows in drain or sewer systems.

### 3.19 gradient

Ratio between the vertical and the horizontal projections of a pipe length.

### 3.20 gravity system

Drain or sewer system where flow is caused by the force of gravity and where the pipeline is designed normally to operate partially full.

### 3.21 groundwater

Water present in the sub-surface strata.

### 3.22 infiltration

Ingress of groundwater into a drain or sewer system.

### 3.23 inspection chamber

Chamber with a removable cover constructed on a drain or sewer that provides access from surface level only, but does not permit entry of a person.

### 3.24 inverted siphon

Length of gravity drain or sewer which is lower than upstream or downstream lengths to allow the pipeline to pass below an obstacle, and which consequently operates under pressure.

### 3.25 maintenance

Routine work undertaken to ensure the continuing performance of drain and sewer systems.

### 3.26 manhole

Chamber with a removable cover constructed on a drain or sewer to permit entry by personnel.

### 3.27 outfall

Final length of pipeline from which sewerage is discharged to a treatment works or receiving water.

### 3.28 partially separate system

A sewer system, normally of two pipelines, where one pipeline carries wastewater together with a designed volume of surface water and the other pipeline carries the balance of the surface water.

### 3.29 ramp manhole

Manhole with a steeply inclined pipe or channel from a drain or sewer at a higher level.

### 3.30 receiving water

Any body of water such as the sea, a river, stream or lake as well as an aquifer into which drain or sewer systems discharge.

### 3.31 rehabilitation

All measures for restoring or upgrading the performance of existing drain and sewer systems.

### 3.32 relevant authority

Organization with appropriate statutory powers of control.

### 3.33 rising main

Pipe through which sewerage is pumped.

### 3.34 runoff

Water from precipitation which flows off a surface to reach a drain, sewer or receiving water.

### 3.35 runoff coefficient

Factor dependent on the ground catchment, and by which the rain water quantity per unit of time is multiplied in order to indicate the flow expected to be carried to the drain or sewer system.

### 3.36 self-cleansing

Ability of the flow in a drain or sewer to carry away solid particles, which would otherwise be deposited in the pipe.

### 3.37 separate system

Sewer system, normally of two pipelines, one carrying wastewater and the other surface water.

### 3.38 septic sewerage

Anaerobic sewerage containing sulfides.

### 3.39 sewerage

Wastewater and/or surface water conveyed by a drain or sewer.

### 3.40 sewer

Pipeline or other construction, usually underground, designed to carry wastewater and/or surface water from more than one source.

### 3.41 sewer system

Network of pipelines and ancillary works which conveys wastewater and/or surface water from drains to a treatment works or other place of disposal.

### 3.42 surcharge

Condition in which wastewater and/or surface water is held under pressure within a gravity drain or sewer system, but does not escape to the surface to cause flooding.

### 3.43 surface flooding

Condition where wastewater and/or surface water escapes from, or cannot enter, a drain or sewer system and either lies on the surface or enters buildings from the surface (see also flooding).

### 3.44 surface water

Water from precipitation, which has not seeped into the ground and which is discharged to the drain or sewer system directly from the ground or from exterior building surfaces.

### 3.45 total cost

Aggregate cost of a scheme over its design life, being the sum of the construction, operating and maintenance costs all calculated at the same time base.

### 3.46 trade effluent

Wastewater discharge resulting wholly, or in part, from any industrial or commercial activity.

### 3.47 utility services

Services provided to customers and industry such as gas, electricity, telephone, cable TV and water.

### 3.48 wastewater

Water changed by use and discharged to a drain or sewer system.

## 4 Sources of additional information

The several Parts of this standard cover general rules for the planning, design and maintenance of drain and sewer systems.

Detailed information additional to that contained in other Parts of this standard may be obtained by referring to the technical documents in annex A of other Parts of this standard.



## National annex NA (informative)

### Relevant authorities

#### NA.1 Introduction

The different legislative arrangements in various European countries make it impossible for an EN to refer to statutory authorities by name. EN 752 therefore refers to such organizations using the term 'relevant authority'.

This national annex lists the names of those relevant authorities which have powers relevant to this standard. It gives the name and function of each together with the principal legislation and any published guidance. The lists of published guidance are not exhaustive and other publications may be relevant.

Where the term 'Local Authority' is used, unless otherwise stated, this should be taken to mean:

- a) in England and Wales, the District, Metropolitan District, London Borough or (from April 1996 in some areas) Unitary Council;
- b) in Scotland, the Unitary, or Island Council (from April 1996);
- c) in Northern Ireland, the District Council.

This takes into account the changes in local government which will come into force in April 1996.

In some parts of England and Wales, functions are split between County Councils and District Councils. In these areas, where a function is carried out by the County Council this is indicated.

The reference documents include dates; however, users should ensure that they are using the most up-to-date edition.

#### NA.2 Sewerage Undertaker

##### NA.2.1 Relevant functions

The Sewerage Undertaker provides sewerage services including the design, construction, maintenance and operation of public sewer systems.

##### NA.2.2 England and Wales

###### NA.2.2.1 Relevant authority

The Sewerage Undertaker is a company licensed by the Secretary of State for the Environment to carry out sewerage functions in an area.

###### NA.2.2.1 Principal legislation

Water Industry Act 1991

###### NA.2.2.2 List of published guidance

WATER SERVICES ASSOCIATION. *Sewers for adoption*. 4th ed. 1995. ISBN 0 8989 20 8.

WATER SERVICES ASSOCIATION. *Civil engineering specification for the water industry*. 4th ed. 1993. ISBN 0 902156 91 8.

*Sewerage rehabilitation manual*. 3rd ed. Water Research Centre. 1994. ISBN 1 898920 00 1.

##### NA.2.3 Scotland

###### NA.2.3.1 Relevant authority

The Water Authority<sup>1)</sup>.

###### NA.2.3.2 Principal legislation

Sewerage (Scotland) Act 1968

###### NA.2.3.3 List of published guidance

*Standard specification for water and sewerage schemes*. 3rd ed. Scottish Association of Directors of Water and Sewerage Services /DoE (Northern Ireland) /Water Research Centre. 1989. ISBN 0 902156 82 9.

<sup>1)</sup> The Water Authority takes over these functions from the Regional and Island Councils from April 1996.

**NA.2.4 Northern Ireland****NA.2.4.1 Relevant authority**

The Department of the Environment (Northern Ireland) — Water Executive.

**NA.2.4.2 Principal legislation**

The Water and Sewerage Services (Northern Ireland) Order 1973

**NA.2.4.3 List of published guidance**

*Standard specification for water and sewerage schemes*. 3rd ed. Scottish Association of Directors of Water and Sewerage Services /DoE (Northern Ireland) /Water Research Centre. 1989. ISBN 0 902156 82 9.

**NA.3 Building control****NA.3.1 Relevant functions**

To ensure a satisfactory drainage system from a building to a point of discharge.

**NA.3.2 England and Wales****NA.3.2.1 Relevant authority**

The Local Authority (Building Control Department). Certain functions may be delegated to approved inspectors.

**NA.3.2.2 Principal legislation**

Building Act 1984

Building Regulations 1991

**NA.3.2.3 List of published guidance**

*Approved Document H, Amended 1992*. London: HMSO. ISBN 0-11-752202-3.

BS 8301 : 1985 *Code of practice for building drainage*

**NA.3.3 Scotland****NA.3.3.1 Relevant authority**

The Local Authority (Building Control Department).

**NA.3.3.2 Principal legislation**

Building (Scotland) Act 1959

Building Standards (Scotland) Regulations 1990 (as amended)

Technical standards supporting the Regulations

**NA.3.4 Northern Ireland****NA.3.4.1 Relevant authority**

The Local Authority (Building Control Department).

**NA.3.4.2 Principal legislation**

Building Regulations (Northern Ireland) Order 1979

Building Regulations (Northern Ireland) 1994

**NA.3.4.3 List of published guidance**

*Technical Booklet N: Drainage*. ISBN 0-337-08225-1.

**NA.4 Water pollution control****NA.4.1 Relevant functions**

Protection from pollution of all receiving water including groundwaters. Control of discharge into rivers and into other receiving waters.

**NA.4.2 England and Wales****NA.4.2.1 Relevant authority**

The Environment Agency<sup>2)</sup>.

**NA.4.2.2 Principal legislation**

Water Resources Act 1991

**NA.4.2.3 List of published guidance**

*Urban pollution management manual*. Marlow: Foundation for Water Research, 1994.  
ISBN 0 9521712 1 X.

*Guidelines for Acid Management Plan 2 (AMP2). Periodic Review, version 2. Effluent Quality*. Approved by the Quadripartite Meeting 14/12/94. Bristol: National Rivers Authority, 1993.

NATIONAL RIVERS AUTHORITY. *Policy and practice for protection of groundwater*. London: HMSO.  
ISBN 011885822X.

NATIONAL RIVERS AUTHORITY. *Groundwater vulnerability maps*. London: HMSO.

**NA.4.3 Scotland****NA.4.3.1 Relevant authority**

The Scottish Environment Protection Agency<sup>3)</sup>.

**NA.4.3.2 Principal legislation**

Rivers (Prevention of Pollution) (Scotland) Act 1951

Control of Pollution Act 1974

**NA.4.3.3 List of published guidance**

*Urban pollution management manual*. Marlow: Foundation for Water Research, 1994.  
ISBN 0 9521712 1 X.

**NA.4.4 Northern Ireland**

The Department of the Environment (Northern Ireland) — Environmental Protection Division.

**NA.4.4.1 Principal legislation**

Water Act (Northern Ireland) 1972

**NA.5 Waste regulation****NA.5.1 Relevant functions**

The control of disposal of waste.

**NA.5.2 England and Wales****NA.5.2.1 Relevant authority**

The Environment Agency<sup>4)</sup>.

**NA.5.2.2 Principal legislation**

Environmental Protection Act 1990

Waste Management Regulations 1994

<sup>2)</sup> The Environment Agency takes over these functions from the National Rivers Authority and Her Majesty's Inspectorate of Pollution from April 1996.

<sup>3)</sup> The Scottish Environment Protection Agency takes over these functions from the River Purification Boards and Island Councils in April 1996.

<sup>4)</sup> The Environment Agency takes over these functions from the Local Authorities in April 1996.

**NA.5.3 Scotland****NA.5.3.1 Relevant authority**

The Scottish Environment Protection Agency<sup>5)</sup>.

**NA.5.3.1 Principal legislation**

Environmental Protection Act 1990

Waste Management Regulations 1994

**NA.5.4 Northern Ireland****NA.5.4.1 Relevant authority**

The Local Authority<sup>6)</sup>.

**NA.5.4.2 Principal legislation**

Pollution Control and Local Government (Northern Ireland) Order 1978

**NA.6 Environmental health****NA.6.1 Relevant Functions**

Responsible for protecting the health of the public including nuisance caused by noise and by public and defective private sewers and drains.

**NA.6.2 England and Wales****NA.6.2.1 Relevant authority**

The Local Authority (Environmental Health Department).

**NA.6.2.2 Principal legislation**

Public Health Acts 1875, 1925, 1936 and 1961

Building Act 1984

**NA.6.3 Scotland****NA.6.3.1 Relevant authority**

The Local Authority (Environmental Health Department).

**NA.6.3.2 Principal Legislation**

The Public Health (Scotland) Acts 1897 and 1945

**NA.6.4 Northern Ireland****NA.6.4.1 Relevant authority**

The Local Authority (Environmental Health Department).

**NA.6.4.2 Principal Legislation**

Public Health (Ireland) Act 1878

Pollution Control and Local Government (Northern Ireland) Order 1978

**NA.7 Highway authority (called Roads authority in Scotland and Northern Ireland)****NA.7.1 Relevant functions**

The construction and maintenance of highways including highway drainage, regulation of traffic and regulation of work carried out in highways.

<sup>5)</sup> The Scottish Environment Protection Agency takes over these functions from the Local Authorities in April 1996.

<sup>6)</sup> There are currently proposals to transfer these functions to a central authority in Northern Ireland.

**NA.7.2 England and Wales****NA.7.2.1 Relevant authority**

Trunk Roads:     The Highways Agency (England);  
                      Welsh Office (Wales).

Other roads:     Local Authority<sup>7)</sup>.

**NA.7.2.2 Principal legislation**

Highways Act 1980

Road Traffic Regulation Act 1984

New Roads and Street Works Act 1991

Regulations made under the New Roads and Street Works Act:

Street Works (Qualifications of Supervisors and Operatives) Regulations, 1992 SI 1687

Street Works (Inspection Fees) Regulations, 1992 SI 1688

Street Works (Reinstatement) Regulations, 1992 SI 1689, available with the Street Works (Reinstatement) (Amendment) Regulations, 1992 SI 3110

Street Works (Sharing of Costs of Works) Regulations, 1992 SI 1690

Streets Works (Maintenance) Regulations, 1992 SI 1691

Street Works (Registers, Notices, Directions and Designations) Regulations, 1992 SI 2985

Street Works (Notices) Order, 1992 SI 3053

Street Works (Records) Regulations<sup>8)</sup>

**NA.7.2.3 List of published guidance**

DEPARTMENT OF TRANSPORT. *Manual of contract documentation for highway works*. Vol 1 *Specification for highway works*. London: HMSO, 1993. ISBN 0-11-551195-4.

*The Street Works Provisions of the New Roads and Street Works Act 1991*. Local Authority and Utilities Circular 1/93 (Department of Transport), 28/93 (Welsh Office) (April 1993). London: HMSO. ISBN 0-11-551066-4.

*Specification for the reinstatement of openings in highways*. London: HMSO. ISBN 0-11-551143-1.

*Measures necessary where apparatus is affected by major works (diversionary works)*. London: HMSO. ISBN 0-11-551149-0.

*Code of practice for inspections*. London: HMSO. ISBN 0-11-551148-X.

*Safety at street works and road works — A code of practice*. London: HMSO. ISBN 0-11-551144-X.

*Code of practice for the co-ordination of street works and works for road purposes and related matters*. London: HMSO. ISBN 0-11-551162-8.

NOTE 1. The following document is in preparation: *Code of practice on recording of underground apparatus in streets*.

NOTE 2. The Department of Transport publishes other advice notes and technical standards as required, and its publications' list should be consulted.

**NA.7.3 Scotland****NA.7.3.1 Relevant authority**

Trunk roads:     The Scottish Office.

Other roads:     The Local Authority.

<sup>7)</sup> In areas with separate County and District Councils this is a County function.

<sup>8)</sup> In preparation.

**NA.7.3.2 Principal legislation**

Roads (Scotland) Act 1984

New Roads and Street Works Act 1991

Regulations made under the New Roads and Street Works Act:

Road Works (Sharing of Costs of Works) (Scotland) Regulations, 1992 SI 1672 (S159)

Road Works (Sharing of Costs of Works) (Scotland) Regulations, 1992 SI 1672 (S160)

Road Works (Maintenance) (Scotland) Regulations, 1992 SI 1673 (S160)

Road Works (Reinstatement) (Scotland) Regulations, 1992 SI 1674 (S161)

Road Works (Reinstatement) (Amendment) (Scotland) Regulations, 1992 SI 3062 (S253)

Road Works (Qualifications of Supervisors and Operatives) (Scotland) Regulations, 1992 SI 1675 (S162)

Road Works (Inspection Fees) (Scotland) Regulations, 1992 SI 1676 (S163)

Road Works (Registers, Notices, Directions and Designations) Regulations (Scotland), 1992 SI 2991 (S246)

Road Works (Notices) (Scotland) Order, 1992 SI 3063 (S254)

Road Works (Records) (Scotland) Regulations<sup>8)</sup>

**NA.7.3.3 List of published guidance**

SCOTTISH OFFICE. *New Roads and Street Works Act 1991, Part IV — Road Works in Scotland: Guidance for Local Authorities and Utilities*. Scottish Office Industry Department (SOID) Circular No 2/93. April 1993. ISBN 0-7480-0721-0.

NOTE. The codes of practice listed in NA.7.2.3 also apply to Scotland.

**NA.7.4 Northern Ireland****NA.7.4.1 Relevant authority**

The Department of the Environment (Northern Ireland) — Roads Service.

**NA.7.4.2 Principal legislation**

The Roads (Northern Ireland) Order 1993

The Road Traffic (Northern Ireland) Order 1981

NOTE. Road works legislation similar to that in Scotland is currently under consideration.

**NA.8 Health and safety****NA.8.1 Relevant functions**

Legal obligations are placed on employers to ensure, so far as reasonably practicable, the health, safety and welfare of all employees. These legal obligations include the provision and maintenance of safe plant and safe systems of work and the provision of information and training which is necessary to ensure the health and safety of employees and of others who may be affected by the work activities.

**NA.8.2 England, Wales and Scotland****NA.8.2.1 Relevant authority**

The Health and Safety Executive.

**NA.8.2.2 Principal Legislation**

Health and Safety at Work etc. Act 1974

Factories Act 1961

Regulations made under these acts include:

- Construction (General Provisions) Regulations 1961<sup>9)</sup>
- Construction (Lifting Operations) Regulations 1961
- Construction (Working Places) Regulations 1966<sup>9)</sup>
- Construction (Health and Welfare) Regulations 1989<sup>9)</sup>
- Construction (Head Protection) Regulations 1994<sup>10)</sup>
- Construction (Design and Management) Regulations 1994<sup>10)</sup>
- Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 1985<sup>9)</sup>
- Management of Health and Safety at Work Regulations 1992<sup>10)</sup>
- Manual Handling Operations Regulations 1992<sup>10)</sup>
- Provision and Use of Work Equipment Regulations 1992<sup>10)</sup>
- Personal Protective Equipment at Work Regulations 1992<sup>10)</sup>
- Control of Substances Hazardous to Health Regulations 1994<sup>10)</sup>
- Electricity at Work Regulations 1989
- Noise at Work Regulations 1989
- Health and Safety (First Aid) Regulations 1981
- Work in Compressed Air Special Regulations 1958<sup>11)</sup>
- Diving Operations at Work Regulations 1981<sup>9)10)</sup>

**NA.8.2.3 List of published guidance**

- Entry into confined spaces.* Guidance Note GS 5. London: HMSO.
- Avoidance of danger from overhead electric lines.* Guidance Note GS 6. London: HMSO.
- Accidents to children on construction sites.* Guidance Note GS 7. London: HMSO.
- Fire precautions in pressurised workings.* Guidance Note GS 20. London: HMSO.
- Electricity on construction sites.* Guidance Note GS 24. London: HMSO.
- Protection against electric shock.* Guidance Note GS 27. London: HMSO.
- Avoiding danger from buried electricity cables.* Guidance Note GS 33. London: HMSO.
- Excavators used as cranes.* Guidance Note PM 42. London: HMSO.
- Lifting gear standards.* Guidance Note PM 54. London: HMSO.
- Occupational exposure limits.* Guidance Note EH 40. London: HMSO.

**NA.8.3 Northern Ireland****NA.8.3.1 Relevant authority**

The Department of Economic Development (Northern Ireland) — Health and Safety Division.

<sup>9)</sup> Likely to be revised in 1996.

<sup>10)</sup> See also the approved code of practice and/or guidance on the Regulations.

<sup>11)</sup> Under revision.

**NA.8.3.2 Principal Legislation**

Health and Safety at Work (NI) Order 1978

Factories Act (Northern Ireland) 1965

Regulations made under these Acts include:

- Construction (General Provisions) Regulations (Northern Ireland) 1963<sup>11)</sup>
- Construction (Lifting Operations) Regulations (Northern Ireland) 1963
- Construction (Working Places) Regulations (Northern Ireland) 1967<sup>11)</sup>
- Construction (Health and Welfare) Regulations (Northern Ireland) 1967<sup>11)</sup>
- Construction (Head Protection) Regulations (Northern Ireland) 1990
- Construction (Design and Management) Regulations (Northern Ireland) 1995<sup>10)</sup>
- Management of Health and Safety at Work Regulations (Northern Ireland) 1992<sup>10)</sup>
- Manual Handling Operations Regulations (Northern Ireland) 1992<sup>10)</sup>
- Provision and Use of Work Equipment Regulations (Northern Ireland) 1993<sup>10)</sup>
- Personal Protective Equipment at Work Regulations (Northern Ireland) 1993<sup>10)</sup>
- Control of Substances Hazardous to Health Regulations (Northern Ireland) 1990<sup>10)</sup>
- Electricity at Work Regulations 1991
- Noise at Work Regulations 1990
- Health and Safety (First Aid) Regulations 1982
- Diving Operations at Work Regulations 1983<sup>10)11)</sup>
- Work in Compressed Air Special Regulations 1963<sup>11)</sup>

**NA.8.3.3 List of published guidance**

Northern Ireland uses the same guidance notes as those for England, Scotland and Wales.

**NA.9 Planning authority****NA.9.1 Relevant functions**

Responsible for controlling development in an area.

**NA.9.2 England and Wales****NA.9.2.1 Relevant authority**

The Local Authority (Planning Department).

**NA.9.2.2 Principal legislation**

Town and Country Planning Acts 1971, 1972, 1980 and 1984

Town and Country Planning General Development Order 1988

**NA.9.2.3 List of published guidance**

A list of published planning policy guidance notes is given in the

*Index of planning guidance*. London: HMSO, June 1995. ISBN DD 029846 0 C50 5/95.

**NA.9.3 Scotland****NA.9.3.1 Relevant authority**

The Local Authority (Planning Department).

**NA.9.3.2 Principal legislation**

Town and Country Planning (Scotland) Act 1972

**NA.9.4 Northern Ireland**

The Department of the Environment (Northern Ireland) Planning Service.

**NA.9.4.1 Principal legislation**

Planning (Northern Ireland) Order 1972



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**BSI — British Standards Institution**

BSI is the independent national body responsible for preparing British Standards. It presents the UK view on standards in Europe and at the international level. It is incorporated by Royal Charter.

**Contract requirements**

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

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