

**ACCESS TO AND MOVEMENT
WITHIN BUILDINGS, AND
PROTECTIVE BARRIERS**

S

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REGULATION 32

Access to and movement within buildings, and protective barriers

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ASTERISKS

Throughout the Technical Standards an asterisk against a standard denotes that a provision deemed to satisfy the standard or some aspect of the standard is specified at the end of the relevant Part.

ITALICS

Throughout the Technical Standards a term in italics is a defined term. The definition is listed in Part A, General.

Introduction

- 1.** The intention of this Part is to ensure, as far as is *reasonably practicable*, that *buildings* are accessible to all users including *disabled people* who should be able to gain access to and within *buildings* without assistance. There are provisions to ensure that those who have impaired sight can enter and move within *buildings*.
- 2.** It should be noted that relevant material from the now deleted Part T has been incorporated in this Part.
- 3.** All stairs, ramps and protective barriers forming part of a *building* must incorporate the basic criteria of safety, which are -
 - a.** that stair and ramp design must be within limits recognised as offering safe passage; and
 - b.** that protective barriers are designed to reduce the risk of injury from falling to a lower level and to protect people from vehicles, where vehicles have access to a *building*.
- 4.** The use of an industrial stair or fixed ladder is permitted in certain circumstances.
- 5.** A number of issues relating to good practice have not been included as being inappropriate to a document concerned with minimum standards. Designers may nevertheless find it helpful to refer to the “Access Guide”, published by Disability Scotland, and the “Guidance on the Use of Tactile Paving Surfaces”, published jointly by The Scottish Office and the Department for the Environment, Transport and the Regions.
- 6.** The “Guide to Safety at Sports Grounds” provides further guidance on steps or ramps associated with gangways of shallow pitch in assembly *buildings* (*purpose sub-group 5B*) such as sports stadia, arenas, theatres and cinemas.
- 7.** Where there is a *storey* accessible to *disabled people* with fixed seating for spectators or an audience, spectators in wheelchairs should be able to sit next to able-bodied or disabled companions.
- 8.** In this Part the term *disabled people* always includes wheelchair users.
- 9.** This Part is limited to the provision of access into and within *buildings*. It does not cover means of escape in the event of fire, for which reference should be made to Part E.
- 10.** Other legislation has a bearing on access, and in particular due regard should be taken of the provisions and supporting guidance of the Disability Discrimination Act 1995 and the Workplace (Health, Safety and Welfare) Regulations 1992.

Regulation 32

Access to and movement within *buildings*, and protective barriers

- 32.** (1) All users of a *building* shall be provided with adequate means of access, and adequate means of movement within the *building* both horizontally and vertically.
- (2) A *building* which contains fixed seating accommodation for an audience or spectators shall be provided with adequate level spaces for wheelchairs.
- (3) Except where -
- (a) the provision of protective barriers would obstruct the use of such areas; or
 - (b) in terms of the *Technical Standards*, such provision is not necessary,
- every stair, ramp, raised floor or other raised accessible area which forms part of a *building* or which is provided to meet a requirement of this regulation shall have a suitable protective barrier.
- (4) Paragraphs (1) and (2) shall not be subject to specification in a notice served under section 11 of *the Act*.

The standards

S1 Application of Part S

- S1.1** This Part sets out the required standards for Regulation 32.
- S1.2** The standards apply to all *buildings*,
except -
- the standards in S2 do not apply to *buildings* of *purpose group* 1.
- S1.3** Standards S3.26 to S3.28 do not apply to access for *disabled people*.

S2 Access to and movement within *buildings* other than *dwelling*s

CAR PARKING

- S2.1** Where car parking is provided within land in the same occupation as a *building* to which this standard applies, parking spaces in accordance with S2.2 must be -
- a. provided at a ratio at least one car parking space per 20 parking spaces or part thereof; and
 - b. not more than 45 metres from the principal entrance of the *building*; and
 - c. clearly marked for use by *disabled people*.
- S2.2** A car parking space or spaces must each be at least 4.8 x 2.4 metres with a clear space at least 1 metre wide along one long side. The clear space may be shared between 2 car parking spaces.

ACCESS TO BUILDINGS

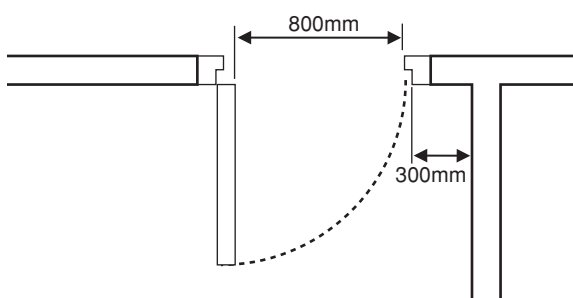
- S2.3*** The approach to the principal entrance of a *building* from a point of access to, and from any car parking within, land in the same occupation, must have -
- a. a level or ramped firm surface suitable for *disabled people*; and
 - b. an unobstructed width of at least 1.2 metres, unless a handrail is required by this Part, in which case the width at handrail level may reduce to at least 1 metre; and
 - c. a dropped kerb between any road, or car parking provided for *disabled people*, and the access route to the *building*.

PRINCIPAL ENTRANCE

- S2.4** The principal entrance door must -
- a. contain a leaf which provides a clear opening width of at least 800 mm in accordance with the diagram to this standard; and

S2.4 – S2.6

- b. have an unobstructed space on the side next to the leading edge of at least 300mm, in accordance with the diagram to this standard, **except -**
 - where the door is opened by automatic control; and
- c. have a clear *glazed* panel or panels giving a zone of visibility from a height of not more than 900mm to at least 1.5 metres above finished floor level; and
- d. where it comprises a revolving door, be provided with an adjacent side hinged or automatic door complying with a. to c.

Diagram to S2.4: Principal entrance

S2.5* Where an entrance lobby is provided it must be sized to -

- a. permit a wheelchair user to move clear of one door before using the next; and
- b. allow for someone assisting the wheelchair user; and
- c. permit an able-bodied person to pass.

MOVEMENT WITHIN BUILDINGS

S2.6* Access for *disabled people* must be provided to and throughout each *storey* of a *building*, **except -**

- a. to a *storey* containing only fixed plant or machinery the only normal visits to which are intermittent to inspect or maintain the fixed plant or machinery; or
- b. to any catwalk, racking or openwork floor; or
- c. to a *storey*, other than the principal entrance *storey*, or *gallery* in a *building* of not more than 2 *storeys* where the *storey* or *gallery* is not more than 280 square metres in area excluding vertical circulation, *sanitary accommodation* and plant rooms; or
- d. to a *storey*, other than the principal entrance *storey*, or *gallery* in a *building* of more than 2 *storeys* where the *storey* or *gallery* is not more than 200 square metres in area excluding vertical circulation, *sanitary accommodation* and plant rooms; or
- e. to a bedroom not having access to *sanitary facilities* suitable for *disabled people* in accordance with Part M, in a *building* of *purpose sub-group* 2B not provided with a lift; or

- f. within an area having fixed seating where wheelchair spaces and associated access are provided in accordance with S2.10; or
- g. in a car park and parking garage of *purpose sub-group 7B or 7C, storeys* where car parking for *disabled people* is not provided; or
- h. to more than half the public area of a restaurant or bar, provided there is access to the counter in a bar and to any self-service counter in a restaurant.

S2.7* A change of level within a *storey* to which access for *disabled people* is required by S2.6 must be accomplished by a -

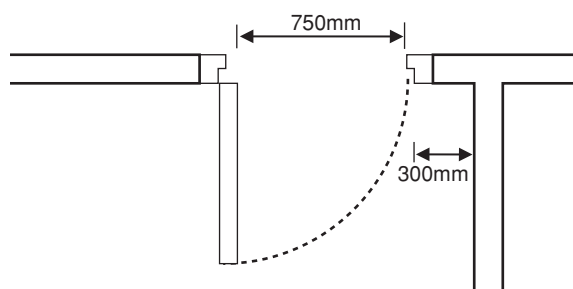
- a. ramp; or
- b. stair, together with a means of providing unassisted movement between levels for wheelchair users.

INTERNAL DOORS AND LOBBIES

S2.8 An internal door accessible to *disabled people* must -

- a. contain a leaf which provides a clear opening width of at least 750mm; and
- b. have an unobstructed space on the side next to the leading edge of at least 300mm in accordance with the diagram to this standard, **except -**
 - where the door is opened by automatic control; and
- c. where the door is across a corridor or passageway, have a clear *glazed* panel or panels giving a zone of visibility from a height of no more than 900mm to at least 1.5 metres above finished floor level.

Diagram to S2.8: Internal doors



S2.9 An internal lobby accessible to *disabled people* must comply with S2.5.

S2.10, S3.1**AREAS OF AUDIENCE AND SPECTATOR FIXED SEATING**

S2.10 In an accessible *storey* which contains fixed seating for spectators, or an audience, accessible level spaces for wheelchair users must be provided in accordance with the table to this standard and which -

- a. are each at least 1.4 metres x 900mm; and
- b. are dispersed among the remainder of the seating; and
- c. enable wheelchair users to be located next to able-bodied or disabled companions; and
- d. are arranged to avoid the extra height of wheelchair users from obstructing sightlines; and
- e. are kept clear specifically for wheelchair users or are fitted with seating which can be readily removed if the space is required for a wheelchair user.

Table to S2.10: Wheelchair space provision in areas of audience and spectator fixed seating

Seated capacity	Number of wheelchair spaces
up to 200	2
201-10 000	2 + 1 per 100 above 200
10 001-20 000	100 + 5 per 1 000 above 10 000
20 001-40 000	150 + 3 per 1 000 above 20 000
more than 40 000	210 + 2 per 1 000 above 40 000

S3 Stairs and ramps

GENERAL STANDARDS FOR ALL STAIRS

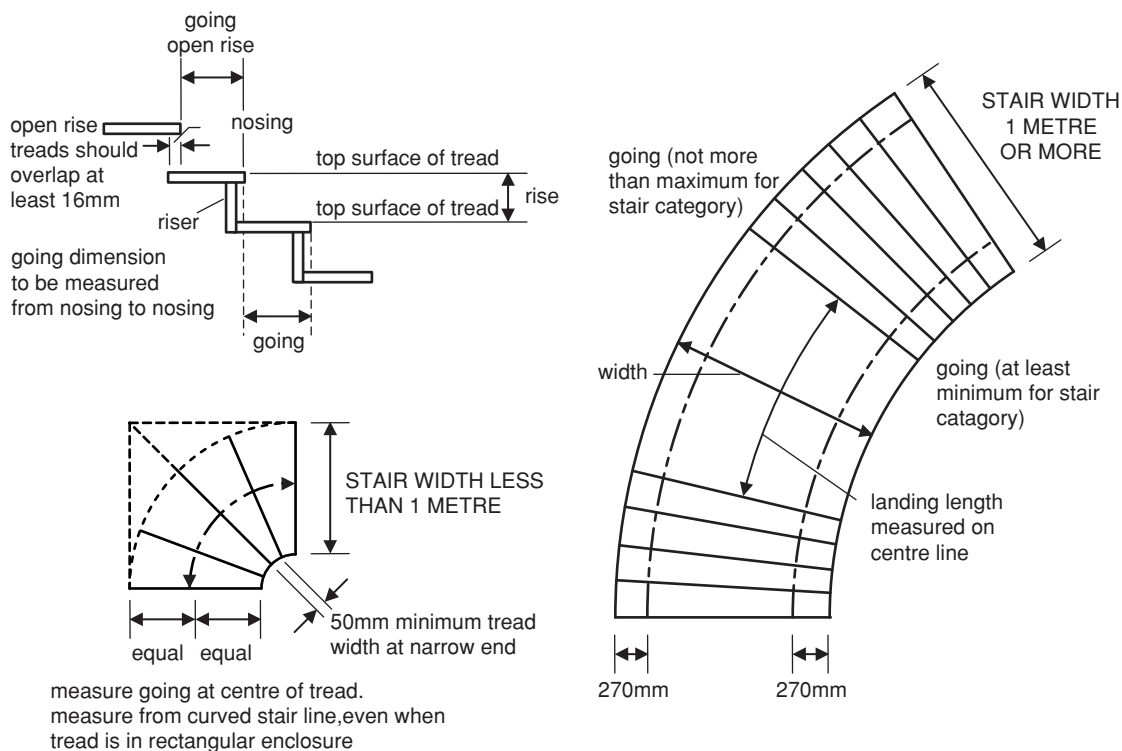
S3.1 A stair must be *constructed* in any of the following ways -

- a. a straight *flight* in accordance with S3.2 to S3.11;
- b. a *flight* consisting partly of straight and partly of *tapered treads* in accordance with S3.2 to S3.8, and S3.10 to S3.14;
- c. a *flight* consisting wholly of *tapered treads* in accordance with S3.6 to S3.8, and S3.15;
- d. an industrial stair or fixed ladder in accordance with S3.26;
- e. a stair or fixed ladder in an *agricultural building* in accordance with S3.27;
- f. a stair forming part of a sloping gangway in a *building of purpose group 5* in accordance with S3.28.

RULES OF MEASUREMENT

S3.2 The rise and going must be measured in accordance with the diagram to this standard -

Diagram to S3.2: Stair measurement



Note:

1. The number of *tapered treads* shown is indicative only.

RISE, GOING AND PITCH OF FLIGHTS IN STAIRS

S3.3 The maximum rise, minimum going and pitch of *flights* in stairs must be in accordance with the table to this standard -

Table to S3.3: Rise, going and pitch of flights in stairs

Description of stair	Maximum rise (mm)	Minimum going (mm) [Note 1]	Maximum pitch
1. Private stair	220	225	42° [Note 2]
2. Any other stair	170	250	34°

Note:

1. In the case of *tapered treads*, subject to S3.12 to S3.14.
2. The combination of maximum rise and minimum going will result in a pitch steeper than this.

S3.4 – S3.10

S3.4 The width of a stair, measured between handrails and clear of obstructions, must be at least 1 metre, **except -**

- a. the width of a *private stair* may reduce to at least -
 - i. 900mm where it is within the accessible *storey*, or
 - ii. 600mm where it serves only *sanitary accommodation* and/or one *room*, other than a living *room* or *kitchen*, or
 - iii. 800mm elsewhere; and
- b. stringers and newels may each project not more than 30mm into the width; and
- c. a stair lift projecting into the width may be fitted to a stair within a *dwelling*.

Note:

There are additional stair width requirements for *escape stairs* in Part E.

S3.5 The aggregate of the going and twice the rise must be at least 550mm and not more than 700mm.

S3.6 A *flight* must have uniform rises, each at least 75mm.

S3.7 The depth of a tread must not be less than the going.

S3.8 In a *flight* with open rises the treads must overlap by at least 16mm. Any opening between adjacent treads in a *flight* in a *building of purpose group 1 or 5 or purpose sub-group 2A* must be small enough to prevent the passage of a 100mm sphere.

S3.9 In a straight *flight*, or in that part of a *flight* which is straight, the going measured along the centre line of the *flight* must be uniform.

LENGTH OF FLIGHTS

S3.10 A *flight* must have -

- a. not more than 16 rises; and
- b. at least 3 rises, **except -**
 - there may be less than 3 rises -
 - i. between an external door of a *building* and the ground, balcony, *conservatory*, *porch* or private garage; or
 - ii. in a stepped ramp; or
 - iii. wholly within an *apartment* within a *dwelling*; or
 - iv. wholly within *sanitary accommodation* within a *dwelling*; or
 - v. between a landing and an adjoining level where the route of travel from the adjoining level to the next *flight* changes direction through 90 degrees.

RISERS AND NOSINGS

S3.11* A stair serving a *storey* to which access for *disabled people* is required by S2.6 must have -

- a. risers profiled to minimise tripping; and
- b. nosings distinguishable through contrasting colour or tone.

Note:

This standard does not apply to a *private stair* in a *dwelling*.

FLIGHTS CONSISTING PARTLY OF STRAIGHT AND PARTLY OF TAPERED TREADS

S3.12* In that part of a *flight* consisting of *tapered treads*, the going of the *tapered treads* must be uniform and must not be less than the going of the straight treads. At the inner end of the tread the going must be at least 50mm.

S3.13 In a *flight* less than 1 metre wide the going must be measured at the centre line of the *flight* as in S3.2.

S3.14 In a *flight* 1 metre wide or more the going must be measured at the two points 270mm from each end of the tread as in S3.2 and the minimum going must be at least the going of the straight treads.

FLIGHTS CONSISTING WHOLLY OF TAPERED TREADS

S3.15* A *flight* consisting wholly of *tapered treads* must be *constructed* so as to give safe passage. The requirements in S3.18 to S3.25 for landings, so far as they apply to intermediate landings between floors, and for handrails, and for headroom, do not apply to such stairs.

PEDESTRIAN RAMPS

S3.16 The maximum gradient and maximum length of a *flight* of a ramp for use by pedestrians must be in accordance with the table to this standard -

Table to S3.16: Gradient and length of a *flight* in a ramp

Gradient of <i>flight</i>	Maximum length of <i>flight</i>
not more than 1 in 20	No limit
not more than 1 in 15	10m
not more than 1 in 12	5m
more than 1 in 12	not permitted

S3.17 A ramp must have -

- a. a width at least the minimum required for the equivalent type of stair in S3.4; and
- b. a raised kerb at least 100mm high on any exposed side of a *flight* or landing, **except -**
 - a ramp serving a single *dwelling*.

S3.18 – S3.22**LANDINGS**

S3.18 A landing, level except for any necessary slope for drainage, must be provided at the top and bottom of every *flight* of a stair or ramp,
except -

- a. a landing may be common to two or more *flights*; and
- b. a landing is not required to a *flight* between the external door of -
 - i. a *building* and the ground, balcony, *conservatory*, *porch* or private garage, where the door slides or opens in a direction away from the *flight* and the aggregate rise is not more than 600mm; or
 - ii. a *dwelling* or private garage ancillary to a *dwelling* and the ground, balcony, *conservatory*, or *porch*, other than a door required to be accessible for *disabled people* under Part Q, where the change in level is not more than 170mm.

S3.19 The unobstructed length of a landing, measured along its centre line and clear of any door swing, must be at least 1.2 metres,
except -

- a. in a *dwelling*, the length of a landing may reduce to at least 900 mm; and
- b. a door may open onto a landing between *flights* such that at any angle of swing it does not diminish the effective width of the landing to less than the width of the stair or ramp; and
- c. a door may open onto the bottom landing of a *flight* such that at any angle of swing a clear length of at least 400 mm is left across the full width of the landing.

HANDRAILS

S3.20 A stair or ramp for a change in level of more than 600mm, or a ramp longer than 2 metres, must have a handrail on both sides of every *flight*,
except -

- a. no handrail is required on a ramp serving a single dwelling where the change of level is no more than 600mm; and
- b. a *private stair* in a *dwelling* connecting two or more *storeys* may have a handrail on only one side.

S3.21 A stair or ramp more than 1.8 metres wide must be divided by a handrail, or handrails, in such a way that each section is at least 1.1 metres and not more than 1.8 metres wide,
except -

- a. a stair or ramp serving a single *dwelling*; or
- b. a stair between an entrance door to a *building* and ground level which does not form part of an *escape route*.

S3.22 A handrail must be fixed at a height of at least 840mm and not more than 1 metre, measured vertically above the pitch line of the *flight* or surface of the landing.

S3.23 A handrail must extend at least 300mm beyond the top and bottom of a *flight* and have a profile and projection that allows a firm grip.
except -

where the handrail serves a single *dwelling*.

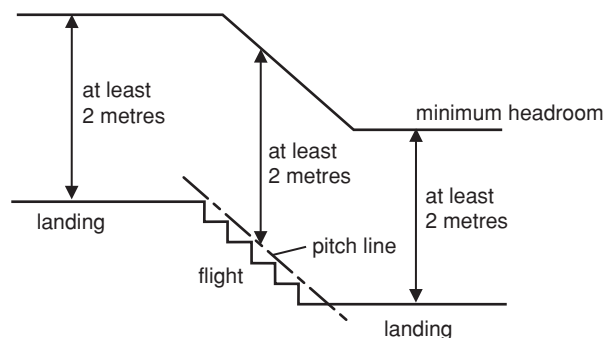
S3.24 The ends of a handrail must be wreathed when not forming part of a protective barrier,
except -

where the handrail serves a single *dwelling*.

HEADROOM

S3.25 A stair, ramp or landing must have a clear headroom of at least 2 metres extending over the whole of the width, measured vertically from the pitch line of the *flight* or the surface of the landing, as shown in the diagram to this standard -

Diagram to S3.25: Measuring headroom



INDUSTRIAL STAIRS AND FIXED LADDERS

S3.26* An industrial stair or fixed ladder serving areas requiring limited access in any *building* must be *constructed* so as to offer safe passage.

STAIRS AND FIXED LADDERS IN AGRICULTURAL BUILDINGS

S3.27* A stair or fixed ladder in an *agricultural building* must be *constructed* so as to offer safe passage.

STEPS IN SLOPING GANGWAYS

S3.28 In a *building of purpose group 5* where steps form part of sloping gangways serving areas for audiences or spectators each step must have a rise at least 125mm and not greater than 190mm.

S4 Protective barriers

PEDESTRIAN PROTECTIVE BARRIERS

S4.1 A protective barrier for pedestrians must be provided at the edge of -

- a. every floor, stair, ramp, raised floor or other raised accessible area where there is a difference in level of 600mm or more; and
- b. a landing where the route of travel from the adjoining level to the next *flight* changes direction through 90 degrees,
 - except -**
 - i. where the barrier would be incompatible with normal use, such as a loading bay or stage; or
 - ii. where a wall, partition or fixed *glazing* at the edge of a drop in level meets the requirement of S4.3.

S4.2 In a *building of purpose group 1 or 5 or purpose sub-group 2A* openings in a protective barrier must be small enough to prevent the passage of a 100mm diameter sphere,

except -

the space between a rise and the lowest edge of the protective barrier may be larger if the lowest edge is not more than 50 mm above, and parallel to, the pitch line of a stair or ramp.

S4.3* A protective barrier must be -

- a. secure; and
- b. capable of resisting appropriate loads; and
- c. of a height at least that given in the table to this standard -

Table to S4.3: Height of pedestrian protective barriers

Location	Minimum height (mm)
At the edge of a floor in front of walls, partitions, fixed <i>glazing</i> and opening windows	800
On a <i>flight</i> within or serving a single <i>dwelling</i>	840
In front of or behind fixed seating	800 [Note 1]
On (a) a stair or ramp; or (b) a <i>gallery</i> or raised area within a single <i>dwelling</i>	900
Elsewhere	1100 [Note 2]

Notes:

1. The protective barrier may be reduced to 750 mm where it has an overall width at the top of at least 250 mm.
2. Where a handrail forming the top of a protective barrier to a *flight* meets a protective barrier to a landing, the height of the latter may be reduced for a distance not more than 300 mm to permit a smooth junction.

VEHICLE PROTECTIVE BARRIERS

S4.4 A barrier to provide protection from vehicles must be provided at the edge of a drop in level in every floor, roof or ramp which is accessible to vehicles, and forms part of a *building*.

S4.5* A vehicle protective barrier provided in accordance with S4.4 must be capable of resisting appropriate loads and be of a height at least that given in the table to this standard -

Table to S4.5: Height of vehicle protective barriers

Location	Minimum height (mm)
Floor or roof edge	400
Ramp edge	600

Provisions deemed to satisfy the standards

ACCESS TO BUILDINGS

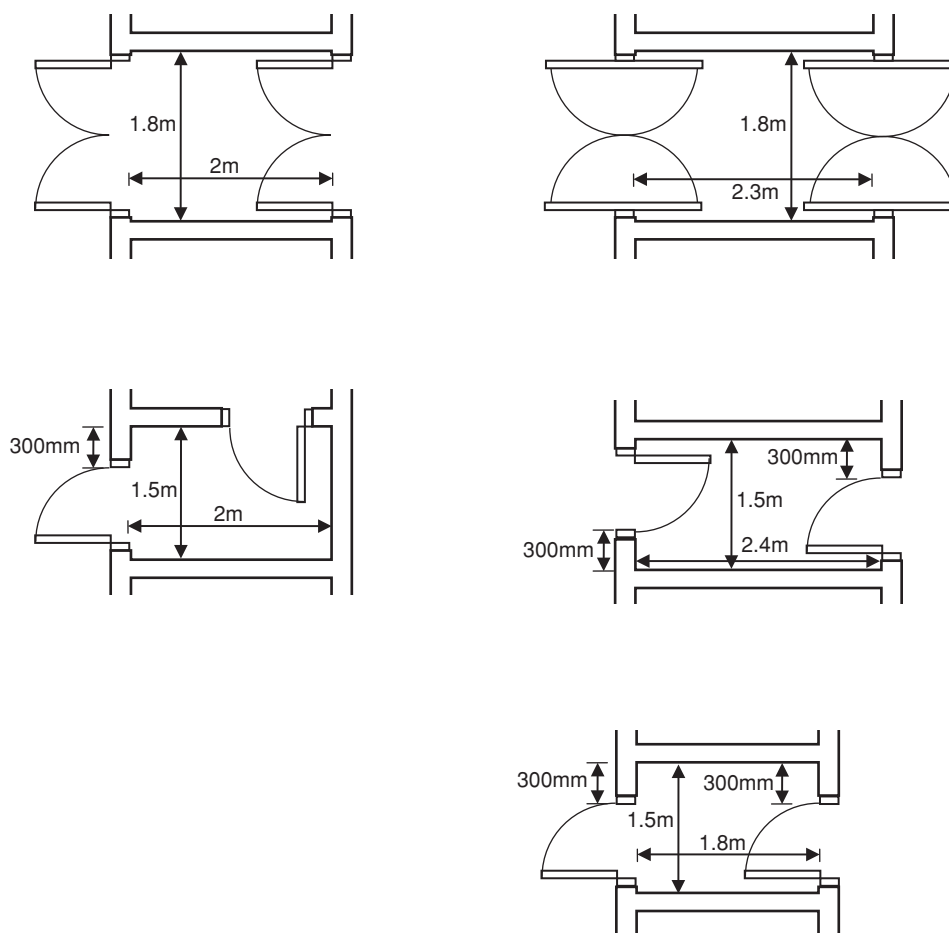
(S2.3) The requirements of S2.3 as regards a firm surface suitable for *disabled people* will be met by -

- a. 50mm concrete slabs bedded on granular material; or
- b. 30mm tarmacadam to BS4987: Parts 1 and 2: 1993 laid on 100 mm of consolidated hardcore bottoming; or
- c. 50mm clay or calcium silicate pavers to BS6677: Part 1: 1986, laid in accordance with BS6677: Part 2: 1986; or
- d. 60mm concrete paving blocks to BS 6717: Part 1: 1993, laid in accordance with BS6677: Part 2: 1986.

PRINCIPAL ENTRANCE

(S2.5) The requirements of S2.5 will be met by a lobby complying with any of the examples in the diagram to this specification -

Diagram to (S2.5): Entrance lobbies



Note:

Doors to lobbies must have a clear opening width of at least 800 mm.

MOVEMENT WITHIN BUILDINGS

(S2.6) The requirements of S2.6 for provision of access to *storeys* above or below the principal entrance *storey* will be met by -

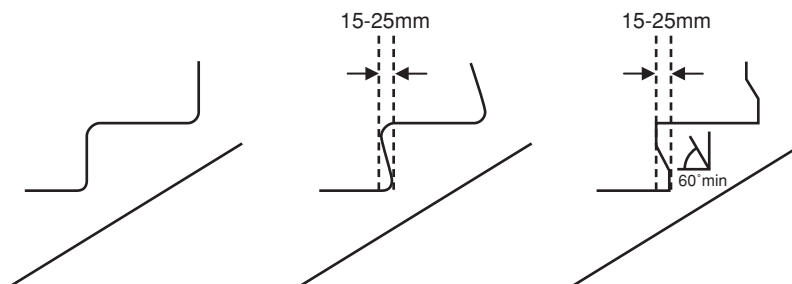
- a. a passenger lift having -
- i. a clear landing at least 1.5 x 1.5 metres in front of the lift entrance door or doors, and
 - ii. lift door or doors with a clear opening width of at least 800mm, and
 - iii. a lift car at least 1.1 x 1.4 metres, and
 - iv. within the lift car a horizontal rail on 3 sides, or on 2 sides if the lift car has 2 doors, 900mm above the floor; and
 - v. controls outside sited between 900mm and 1.2 metres above the landing, and within the lift car on a side wall between 900mm and 1.2 metres above the car floor and at least 400mm from the corner, and
 - vi. tactile call buttons, and visual and tactile indication of the *storey* level, on each *storey* served, and
 - vii. within the lift car, tactile *storey* selector buttons and, in a lift serving more than 2 *storeys*, visual and voice indicators of the *storey* reached, and
 - viii. a signalling system which gives 5 seconds notification that the lift is answering a landing call, and a dwell time of 5 seconds before the lift doors close after they are fully open, **except -**

the dwell time may be reduced to 3 seconds where the door closing system is over-ridden by a door re-activating device which relies on photo-eye or infra-red methods, but not a door edge pressure system; or
- b. in the case of exceptions c. and d. of S2.6, by a stair.

(S2.7) The requirements of S2.7b. will be met by a wheelchair platform stairlift in accordance with BS5776: 1996, or a powered lifting platform in accordance with BS6440: 1983.

RISERS AND NOSINGS

(S3.11) The requirements of S3.11b. will be met by rises profiled in accordance with the diagram to this specification -

Diagram to (S3.11): Step profile examples

(S3.12) – (S4.5)**FLIGHTS CONSISTING PARTLY OF STRAIGHT AND PARTLY OF TAPERED TREADS**

(S3.12) The requirements of S3.12 as regards *tapered treads* will be met where the stair is *constructed* in accordance with BS585: Part 1: 1989, Appendices B1 and B3, irrespective of the material of *construction* or whether it contains open rises.

FLIGHTS CONSISTING WHOLLY OF TAPERED TREADS

(S3.15) The requirements of S3.15 will be met where the *flight* consists wholly of *tapered treads* forming a helix or spiral and is *constructed* in accordance with BS5395: Part 2: 1984. Where such a *flight* forms an *escape stair* the category of the stair must be in accordance with the table to this specification -

Table to (S3.15): Helical or spiral flights forming an escape stair

Appropriate capacity not exceeding - [Note 1]	Stair category [Note 2]
10	B
25	C [Note 3]
50	D [Note 3]
100	E [Note 3]

Notes:

1. Appropriate capacity to be calculated in accordance with Part E.
2. Refer to Table 2 of BS 5395: Part 2: 1984.
3. Handrails must be provided on both sides.

INDUSTRIAL STAIRS AND FIXED LADDERS

(S3.26) The requirements of S3.26 will be met by the use of industrial stairs or fixed ladders in the circumstances described in, and *constructed* in accordance with, BS5395: Part 3: 1985; or BS4211: 1994; or by a Type A Spiral or Helical Stair *constructed* in accordance with BS5395: Part 2: 1984.

STAIRS AND FIXED LADDERS IN AGRICULTURAL BUILDINGS

(S3.27) The requirements of S3.27 will be met by the use of stairs or fixed ladders in the circumstances described in, and *constructed* in accordance with, BS5502: Part 80: 1990.

PEDESTRIAN PROTECTIVE BARRIERS

(S4.3) The requirements of S4.3 will be met where the loads are calculated in accordance with BS6399: Part 1: 1996.

VEHICLE PROTECTIVE BARRIERS

(S4.5) The requirements of S4.5 will be met where the loads are calculated in accordance with BS6399: Part 1: 1996.

**APPENDIX: LIST OF PUBLICATIONS REFERRED TO
IN THE TECHNICAL STANDARDS**

APPENDIX

List of publications referred to in the Technical Standards

BRITISH STANDARDS

	Number	Title	Amendment	Context
BS 41	: 1973 (1981)	Specification for cast iron spigot and socket flue or smoke pipes and fittings		(F4.12)
BS 449		Specification for the use of structural steel in building -		
	: Part 2: 1969	- Metric units	AMD 416 AMD 523 AMD 661 AMD 1135 AMD 1787 AMD 4576 AMD 5698 AMD 6255 AMD 8859	(C2.1)
BS 476		Fire tests on building materials and structures -		
	: Part 3: 1958	- External fire exposure roof tests		(D9.1)
	: Part 4: 1970 (1984)	- Non-combustibility test for materials	AMD 2483 AMD 4390	(D1.3)
	: Part 6: 1981	- Method of test for fire propagation for products		(D1.3)
	: Part 6: 1989	- Method of test for fire propagation for products		(D1.3)
	: Part 7: 1987 (1993)	- Method for classification of the surface spread of flame of products	AMD 6249 AMD 7030 AMD 7612	(D1.3)
	: Part 11: 1982 (1988)	- Method for assessing the heat emission from building materials		(D1.3)
	: Part 20: 1987	- Method for determination of the fire resistance of elements of construction (general principles)	AMD 6487	(D1.3)
	: Part 21: 1987	- Methods for determination of the fire resistance of loadbearing elements of construction		(D1.3)

	: Part 22: 1987	- Methods for determination of the fire resistance of non-loadbearing elements of construction		(D1.3)
	: Part 23: 1987	- Methods for determination of the contribution of components to the fire resistance of a structure		(D1.3)
	: Part 24: 1987	- Method for determination of the fire resistance of ventilation ducts		(D1.3)
	: Part 31: Section 31.1: 1983	-Methods for measuring smoke penetration through doorsets and shutter assemblies - method of measurement under ambient temperature conditions	AMD 8366	(D1.3)
BS 585		Wood stairs -		
	: Part 1: 1989	- Specification for stairs with closed risers for domestic use, including straight and winder flights and quarter or half landings	AMD 6510	(S3.12)
BS 715	: 1993	Specification for metal flue pipes, fittings, terminals and accessories for gas-fired appliances with a rated input not exceeding 60 kW	AMD 8413	(F6.11)
BS 750	: 1984	Specification for underground fire hydrants and surface box frames and covers	AMD 7658	(E10.2)
BS 799	: Part 5: 1987	Specification for oil storage tanks		(F7.1)
BS 1289		Flue blocks and masonry terminals for gas appliances		
	: Part 1: 1986	- Specification for precast concrete flue blocks and terminals	AMD 9853	(F3.5)
	: Part 2: 1989 (1996)	- Specification for clay flue blocks and terminals		(F3.5)
BS 1377		Methods of test for soils for civil engineering purposes		
	:Part 2: 1990	Classification tests		(M3.5)
BS 1449		Steel plate, sheet and strip -		
	: Part 1: 1991	- Specification for carbon and carbon-manganese plate, sheet and strip		(F4.12)

BS 1566		Copper indirect cylinders for domestic purposes -		
	: Part 2: 1984 (1990) -	Specification for single feed indirect cylinders	AMD 5791 AMD 6601	(J6.2), (J11.5)
BS 2782		Methods of testing plastics -		
	: Part 1: Methods 120A to 120E: 1990	Thermal Properties - Determination of the Vicat softening temperature of thermoplastics		(D9.1)
	Method 508A: 1970	- Methods of testing plastics Rate of burning (laboratory method)		(D7.2), (D9.1)
BS 3198	: 1981	Specification for copper hot water storage combination units for domestic purposes	AMD 4372 AMD 6599	(J6.2), (J11.5)
BS 4211	: 1994	Specification for ladders for permanent access to chimneys, other high structures, silos and bins		(S3.26)
BS 4514	: 1983 (1998)	Specification for unplasticised PVC soil and ventilating pipes, fittings and accessories	AMD 4517 AMD 5584	(D3.14),(D4.7) (D5.8), (D6.7)
BS 4543		Factory-made insulated chimneys -		
	: Part 1: 1990 (1996)-	Methods of test	AMD 8379	(F3.7), (F3.9)
	: Part 2: 1990 (1996)-	Specification for chimneys with stainless steel flue linings for use with solid fuel fixed appliances	AMD8380	(F3.6), (F4.11)
	: Part 3: 1990 (1996)-	Specification for chimneys with stainless steel fluelining for use with oil fired appliances	AMD 8381	(F3.6)
BS 4987		Coated macadam for roads and other paved areas -		
	: Part 1: 1993	- Specification for constituent materials and for mixtures	AMD 8122 AMD 8400	(Q2.4) (S2.3)
	: Part 2: 1993	- Specification for transport, laying and compaction	AMD 8158 AMD 8361	(Q2.4) (S2.3)
BS 5041		Fire hydrant systems equipment -		
	: Part 1: 1987	- Specification for landing valves for wet risers	AMD 5912	(E10.7)
	: Part 2: 1987	- Specification for landing valves for dry risers	AMD 5776	(E10.8)

	: Part 3: 1975 (1987) - Specification for inlet breechings for dry riser inlets	AMD 5504	(E10.8)
	: Part 4: 1975 (1987) - Specification for boxes for landing valves for dry risers	AMD 5503	(E10.8)
	: Part 5: 1974 (1987) - Specification for boxes for foam inlets and dry riser inlets	AMD 5505	(E10.9)
BS 5250	: 1989 (1995) Code of practice for control of condensation in buildings		G Introduction (G4.1) J Introduction
BS 5262	: 1991 Code of practice for external renderings		(G3.1)
BS 5266	Emergency lighting -		
	: Part 1: 1999 - Code of practice for the emergency lighting of premises other than cinemas and certain other specified premises used for entertainment		(E9.2)
BS 5268	Structural use of timber -		
	: Part 2: 1996 - Code of practice for permissible stress design, materials and workmanship	AMD 9451	(C2.1)
	: Part 3: 1998 - Code of practice for trussed rafter roofs		(C2.1)
	: Part 4: Sections 4.1 and 4.2: 1990 - Recommendations for calculating fire resistance of timber stud walls and joisted floor constructions		(D1.3)
	: Part 6: Section 6.1: 1996 - Dwellings not exceeding four storeys		(C2.1)
BS 5306	Fire extinguishing installations and equipment on premises -		
	: Part 0: 1986 - Guide for the selection of installed systems and other fire equipment	AMD 5695 AMD 6653	(D2.1), (D5.1) (D5.3), (D5.4) (D8.1)
	: Part 1: 1976 (1988) - Hydrant systems, hose reels and foam inlets	AMD 4649 AMD 5756	(E10.7) (E10.8)
	: Part 2: 1990 - Specification for sprinkler systems	AMD 9809 AMD 9985	(D2.1), (D5.1) (D5.3), (D5.4) (D8.1)(E10.15)
	: Part 4: 1986 - Specification for carbon dioxide systems		(D2.1), (D5.1) (D5.3), (D5.4) (D8.1)

	: Part 6	Foam systems -		
	: Section 6.1: 1988	- Specification for low expansion foam systems	AMD 9808 AMD 9945	(D2.1), (D5.1) (D5.3), (D5.4) (D8.1)
	: Section 6.2: 1989	- Specification for medium and high expansion foam systems		(D2.1), (D5.1) (D5.3), (D5.4) (D8.1)
	: Part 7: 1988	- Specification for powder systems		(D2.1), (D5.1) (D5.3), (D5.4) (D8.1)
BS 5378		Safety signs and colours -		
	: Part 3: 1982-	Specification for additional signs to those given in BS 5378: Part 1		(P2.8)
BS 5390	: 1976 (1984)	Code of practice for stone masonry	AMD 4272	(G3.1)
BS 5395		Stairs, ladders and walkways -		
	: Part 2: 1984	- Code of practice for the design of helical and spiral stairs	AMD 6076	(S3.15), (S3.26)
	: Part 3: 1985	- Code of practice for the design of industrial type stairs, permanent ladders and walkways		(E5.11) (P2.8), (S3.26)
BS 5410		Code of practice for oil firing -		
	: Part 1: 1997	- Installations up to 45 kW output capacity for space heating and hot water supply purposes		(F3.1), (F3.8) (F3.11), (F5.3) (F5.4), (F5.7) (F7.1), (F7.3)
	: Part 2: 1978	- Installations of 44 kW and above output capacity for space heating, hot water and steam supply purposes	AMD 3638	(F3.1), (F7.1) (F7.2), (F7.3)
BS 5422: 1990		Method for specifying thermal insulating materials on pipes, ductwork and equipment (in the temperature range -40°C to +700°C)		(J6.3), (J6.4) (J11.6) (J11.7)
BS 5438: 1989 (1995)		Methods of test for flammability of textile fabrics when subjected to a small igniting flame applied to the face or bottom edge of vertically oriented specimens	AMD 6509 AMD 8308	(D7.2)
BS 5440		Installation of flues and ventilation for gas appliances of rated input not exceeding 60 kW (1st, 2nd and 3rd family gases) -		

	: Part 1: 1990	- Specification for installation of flues	AMD 8819	(F3.8), (F3.11) (F6.5), (F6.6) (F6.7), (F6.11)
	: Part 2: 1989	- Specification for installation of ventilation for gas appliances	AMD 8128	(F6.3), (F6.4)
BS 5446		Components of automatic fire alarm systems for residential premises -		
	: Part 1: 1990	- Specification for self-contained smoke alarms and point-type smoke detectors	AMD 6863 AMD 7648 AMD 9628	(E11.1)
BS 5502		Buildings and structures for agriculture -		
	: Part 22: 1993	- Code of practice for design, construction and loading		(C2.1)
	: Part 50: 1993	- Code of practice for design, construction and use of storage tanks and reception pits for livestock slurry		(R3.2)
	: Part 80: 1990	- Code of practice for design and construction of workshops, maintenance and inspection facilities		(S3.27)
BS 5534		Code of practice for slating and tiling -		
	: Part 1: 1997	- Design		(G3.1)
BS 5588		Fire precautions in the design, construction and use of buildings -		
	: Part 4: 1998	- Code of practice for smoke control in protected escape routes using pressurization	AMD 10019	(D1.3), (E5.23)
	: Part 5: 1991	- Code of practice for fire-fighting stairs and lifts	AMD 7196	(E10.4), (E10.9) (E10.11)
	: Part 6: 1991	- Code of practice for places of assembly	AMD 10212	(D11.13) (D11.14) (D11.15)
	: Part 9: 1999	- Code of practice for ventilation and air conditioning ductwork		(D3.14),(D4.7) (E5.8), (D6.7)
BS 5617	: 1985 (1996)	Specification for urea-formaldehyde (UF) foam systems suitable for thermal insulation of cavity walls with masonry or concrete inner and outer leaves		(G3.1)

BS 5618	: 1985 (1996)	Code of practice for thermal insulation of cavity walls (with masonry or concrete inner and outer leaves) by filling with urea-formaldehyde (UF) foam systems	AMD 6262 AMD 7114	(G3.1)
BS 5628		Code of practice for use of masonry -		
	: Part 1: 1992	- Structural use of unreinforced masonry	AMD 7745	(C2.1), (C3.1)
	: Part 2: 1995	- Structural use of reinforced and prestressed masonry		(C2.1), (C3.1)
	: Part 3: 1985	- Materials and components, design and workmanship	AMD 4974	(C2.1) (G3.1) (H2.1-H2.3)
BS 5720	: 1979	Code of practice for mechanical ventilation and air conditioning in buildings		(K2.1), (K4.9)
BS 5776	: 1996	Specification for powered stairlifts		(S2.7)
BS 5839		Fire detection and alarm systems for buildings -		
	: Part 1: 1988	- Code of practice for system design, installation and servicing	AMD 6317 AMD 6874 AMD 9257	(D3.14),(D4.7) (D5.8), (D6.7) (D11.1-D11.5) (E2.14) (E11.1-E11.3)
	: Part 3: 1988	- Specification for automatic release mechanisms for certain fire protection equipment	AMD 10207	(D3.14),(D4.7) (D5.8), (D6.7) (D11.1-D11.5)
	: Part 6: 1995	- Code of practice for the design and installation of fire detection and alarm systems in dwellings	AMD 9135	(E11.1)
	: Part 8: 1998	- Code of practice for the design, installation and servicing of voice alarm systems		(E11.3)
BS 5867		Specification for fabrics for curtains and drapes -		
	: Part 2: 1980 (1993)	- Flammability requirements	AMD 4319	(D7.2)
BS 5871		Specification for the installation of gas fires, convector heaters, fire/back boilers and decorative fuel effect gas appliances		
	: Part 1: 1991	- Gas fires, convector heaters and fire/back boilers (1st, 2nd and 3rd family gases)		(F6.16)

	: Part 2: 1991	- Inset live fuel effect gas fires of heat input not exceeding 15kW (2nd and 3rd family gases)		(F6.3), (F6.7) (F6.16)
	: Part 3: 1991	- Decorative fuel effect gas appliances of heat input not exceeding 15kW (2nd and 3rd family gases)	AMD 7033	(F6.3), (F6.6) (F6.7), (F6.16)
BS 5925	: 1991 (1995)	Code of practice for ventilation principles and designing for natural ventilation	AMD 8930	(K2.1)
BS 5930	: 1981	Code of practice for site investigations		G Appendix
BS 5950		Structural use of steelwork in building -		
	: Part 1: 1990	- Code of practice for design in simple and continuous construction: hot rolled sections	AMD 6972	(C2.1), (C3.1)
	: Part 2: 1992	- Specification for materials, fabrication and erection: hot rolled sections	AMD 7766	(C2.1)
	: Part 3: Section 3.1: 1990	- Design in composite construction - Code of practice for design of simple and continuous composite beams		(C2.1)
	: Part 4: 1994	- Code of practice for design of composite slabs with profiled steel sheeting		(C2.1)
	: Part 5: 1987	- Code of practice for design of cold formed sections	AMD 5957	(C2.1)
	: Part 6: 1995	- Code of practice for design of light gauge profiled steel sheeting		(C2.1)
	: Part 7: 1992	- Specification for materials and workmanship: cold-formed sections		(C2.1)
	: Part 8: 1990	- Code of practice for fire resistant design	AMD 8858	(C2.1), (D1.3)
BS 5979	: 1993	Code of practice for remote centres for alarm systems	AMD 9235	(E11.2)
BS 6229	: 1982	Code of practice for flat roofs with continuously supported coverings		(G3.1)
BS 6262	: 1982	Code of practice for glazing for buildings	AMD 4063 AMD 4582 AMD 8279	(P2.2)

BS 6262		Glazing for buildings -		
	: Part 4: 1994	- Safety related to human impact		(P2.2)
BS 6283		Safety devices for use in hot water systems -		
	: Part 2: 1991	- Specification for temperature relief valves for pressures from 1 bar to 10 bar		(P3.1)
	: Part 3: 1991	- Specification for combined temperature and pressure relief valves for pressures from 1 bar to 10 bar		(P3.1)
BS 6297	: 1983	Code of practice for design and installation of small sewage treatment works and cesspools	AMD 6150	(M3.1)
BS 6387	: 1994	Specification for performance requirements for cables required to maintain circuit integrity under fire conditions		(D3.6), (D3.7)
BS 6399		Loading for buildings -		
	: Part 1: 1996	- Code of practice for dead and imposed loads		(C2.1), (S4.3) (S4.5)
	: Part 2: 1997	- Code of practice for wind loads		(C2.1)
	: Part 3: 1988	- Code of practice for imposed roof loads	AMD 6033 AMD 9187 AMD 9452	(C2.1)
BS 6440	: 1983	Code of practice for powered lifting platforms for use by disabled persons		(S2.7)
BS 6461		Installation of chimneys and flues for domestic appliances burning solid fuel (including wood and peat) -		
	: Part 1: 1984	- Code of practice for masonry chimneys and flue pipes	AMD 5649	(F3.5), (F3.8) (F4.11)
BS 6465		Sanitary installations -		
	: Part 1: 1994	- Code of practice for scale of provision, selection and installation of sanitary appliances		(M4.5)

BS 6676		Thermal insulation of cavity walls using man-made mineral fibre batts (slabs) -		
	: Part 1: 1986 (1994) -	Specification for man-made mineral fibre batts (slabs)		(G3.1)
	: Part 2: 1986 (1994) -	Code of practice for installation of batts (slabs) filling the cavity		(G3.1)
BS 6677		Clay and calcium silicate pavers for flexible pavements -		
	: Part 1: 1986 (1997) -	Specification for pavers		(Q2.4), (S2.3)
	: Part 2: 1986 (1997) -	Code of practice for design of lightly trafficked pavements		(Q2.4), (S2.3)
BS 6700	: 1997	Specification for design, installation, testing and maintenance of services supplying water for domestic use within buildings and their curtilages		(P3.1)
BS 6717		Precast concrete paving blocks -		
	: Part 1: 1993	- Specification for paving blocks		(Q2.4), (S2.3)
BS 6915	: 1988	Specification for design and construction of fully supported lead sheet roof and wall coverings		(G3.1)
BS 6999	: 1989 (1996)	Specification for vitreous-enamelled low-carbon-steel flue pipes, other components and accessories for solid-fuel-burning appliances with a rated output of 45kW	AMD 8949	(F4.12)
BS 7036	: 1996	Code of practice for safety at powered doors for pedestrian use		(E2.4) (E5.11)
BS 7206	: 1990	Specification for unvented hot water storage units and packages	AMD 9343	(P3.1)
BS 7346		Components for smoke and heat control systems -		
	: Part 1: 1990	- Specification for natural smoke and heat exhaust ventilators	AMD 7193	(D3.6), (D3.7)
	: Part 2: 1990	- Specification for powered smoke and heat exhaust ventilators	AMD 7028	(E10.15)
BS 7435		Fibre cement flue pipes, fittings and terminals		
	: Part 1: 1991	- Specification for light quality fibre cement flue pipes, fittings and terminals		(F6.11)

BS 7501	: 1989	General criteria for the operation of testing laboratories		(B2.2)
BS 7502	: 1989	General criteria for the assessment of testing laboratories		(B2.2)
BS 7543	: 1992 (1998)	Guide to durability of buildings and building elements, products and components		B Introduction
BS 7566		Installation of factory-made chimneys to BS4543 for domestic appliances		
	: Part 1: 1992	- Method of specifying installation design information		(F3.7), (F4.11)
	: Part 2: 1992	- Specification for installation design		(F3.7), (F4.11)
	: Part 3: 1992	- Specification for site installation		(F3.7), (F4.11)
	: Part 4: 1992	- Recommendations for installation design and installation		(F3.7), (F3.8) (F4.11)
BS 7671	: 1992	Requirements for electrical installations, IEE Wiring Regulations, Sixteenth edition	AMD 8536 AMD 9781	N Introduction, (N2.1)
BS 8000	Parts 1 to 16	Workmanship on building sites		(B2.1)
BS 8004	: 1986	Code of practice for foundations		(C2.1)
BS 8103		Structural design of low rise buildings		
	: Part 1: 1995	- Code of practice for stability, site investigation, foundations and ground floor slabs for housing	AMD 8980	(C2.1)
	: Part 2: 1996	- Code of practice for masonry walls for housing		(C2.1)
	: Part 3: 1996	- Code of practice for timber floors and roofs for housing		(C2.1)
	: Part 4: 1995	- Code of practice for suspended concrete floors for housing		(C2.1)
BS 8104	: 1992	Code of practice for assessing exposure of walls to wind-driven rain	AMD 8358	(G3.1)

BS 8110		Structural use of concrete -		
	: Part 1: 1997	- Code of practice for design and construction		(C2.1), (C3.1)
	: Part 2: 1985	- Code of practice for special circumstances	AMD 5914	(C2.1), (C3.1) (D1.3)
	: Part 3: 1985	- Design charts for singly reinforced beams, doubly reinforced beams and rectangular columns	AMD 5918	(C2.1)
BS 8118		Structural use of aluminium -		
	: Part 1: 1991	- Code of practice for design		(C2.1)
	: Part 2: 1991	- Specification for materials, workmanship and protection		(C2.1)
BS 8200	: 1985	Code of practice for design of non-loadbearing external vertical enclosures of buildings		(G3.1)
BS 8208		Guide to assessment of suitability of external cavity walls for filling with thermal insulants -		
	: Part 1: 1985	- Existing traditional cavity construction	AMD 4996	(G3.1)
BS 8213		Windows, doors and rooflights -		
	: Part 1: 1991	- Code of practice for safety in use and during cleaning of windows and doors (including guidance on cleaning materials and methods)		(P2.3)
BS 8214	: 1990	Code of practice for fire door assemblies with non-metallic leaves	AMD 7438	(D1.3)
BS 8217	: 1994	Code of practice for built-up felt roofing		(G3.1)
BS 8218	: 1998	Code of practice for mastic asphalt roofing		(G3.1)
BS 8297	: 1995	Code of practice for design and installation of non-loadbearing precast concrete cladding		(G3.1)
BS 8298	: 1994	Code of practice for design and installation of natural stone cladding and lining		(G3.1)

BS 8301	: 1985	Code of practice for building drainage	AMD 5904 AMD 6580	(G2.2),
BS 8303		Installation of domestic heating and cooking appliances burning solid mineral fuels		
	: Part 1: 1994	- Specification for the design of installations		(F3.1), (F4.8) (F4.12), (F4.19) (F4.21)
	: Part 2: 1994	- Specification for installing and commissioning on site		(F3.1)
	: Part 3: 1994	- Recommendations for design and on site installation		(F3.1), (F4.21)

CODES OF PRACTICE

CP 3	: Chapter V	Code of basic data for the design of buildings - Loading		
	: Part 2: 1972	- Wind loads	AMD 4952 AMD 5152 AMD 5343 AMD 6028 AMD 7908	(C2.1)
CP 102	: 1973	Code of practice for protection of buildings against water from the ground	AMD 1511 AMD 2196 AMD 2470	(G2.2), (G2.3) (G2.5)
CP 143		Code of practice for sheet roof and wall coverings -		
	: Part 5: 1964	- Zinc		(G3.1)
	: Part 10: 1973	- Galvanised corrugated steel. Metric units		(G3.1)
	: Part 12: 1970 (1988)-	Copper. Metric units	AMD 863 AMD 5193	(G3.1)
	: Part 15: 1973 (1986)-	Aluminium. Metric units	AMD 4473	(G3.1)
CP 1007	: 1955	Maintained lighting for cinemas		(E9.2)

EUROPEAN STANDARDS

BS EN 115:	1995	Safety rules for the construction and installation of escalators and passenger conveyors		(P2.5)
BS EN ISO 140		Acoustics. Measurement of sound insulation in buildings and of building elements		
	140-4: 1998	Field measurements of airborne sound insulation between rooms		(H2.1-H2.3)
	140-7: 1998	Field measurements of impact sound insulation of floors		(H2.1-H2.3)
BS EN 573		Aluminium and aluminium alloys. Chemical composition and form of wrought products		
	573-1: 1995	Numerical designation system		(F6.9)
BS EN ISO 717		Acoustics. Rating of sound insulation in buildings and building elements		
	717-1: 1997	Airborne sound insulation		(H2.1-H2.3)
	717-2: 1997	Impact sound insulation		(H2.1-H2.3)

BS EN 752	Drain and sewer systems outside buildings	
752-3: 1997 (amendment 2)	Planning	(M2.1)
752-4: 1998	Hydraulic design and environmental considerations	(M2.1), (M2.2) (M2.5), (M2.9) (M3.6)
BS EN ISO 1182	Reaction to fire tests for building products – Non-combustibility test	(D1.3)
BS EN 1363	Fire resistance tests	
1363-1: 1999	General requirements	(D1.3)
1363-2: 1999	Alternative and additional procedures	(D1.3)
1363-3: 1999	Verification of furnace performance	(D1.3)
BS EN 1364	Fire resistance tests for non-loadbearing elements	
1364-1: 1999	Walls	(D1.3)
1364-2: 1999	Ceilings	(D1.3)
BS EN 1365	Fire resistance tests for loadbearing elements	
1365-1: 1999	Walls	(D1.3)
1365-2: 1999	Floors and roofs	(D1.3)
1365-3: 1999	Beams	(D1.3)
1365-4: 1999	Columns	(D1.3)
BS EN 1366	Fire resistance tests for service installations	
1366-1: 1999	Ducts	(D1.3)
1366-2: 1999	Fire dampers	(D1.3)
BS EN 1610: 1998	Construction and testing of drains and sewers	(M2.1)
BS EN 1634	Fire resistance tests for door and shutter assemblies	
1634-1: 2000	Fire doors and shutters	(D1.3)
1634-3: 2001	Smoke control doors	(D1.3)
BS EN ISO 1716	Reaction to fire tests for building products- Determination of the gross calorific value	(D1.3)
BS EN ISO 6946: 1997	Building components and building elements: Thermal resistance and thermal transmittance Calculation method	(J2.1) J Appendix B J Appendix C

BS EN ISO 8990: 1996	Thermal insulation. Determination of steady-state thermal transmission properties. Calibrated and guarded hot box	(J2.1)
BS EN ISO 9000	Quality management and Quality assurance standards	(B2.1)
BS EN ISO 10077	Thermal performance of windows, doors and shutters Calculation of thermal transmittance.	
10077-1: 2000	Simplified method	(J2.1) J Appendix A
10077-2: 2000	Numerical method for frames	(J2.1) J Appendix A
BS EN 10088	Stainless steels	
10088-1: 1995	List of stainless steels	(F4.12), (F6.9)
BS EN 10215: 1995	Continuously hot-dip Zinc-Aluminium (AZ) coated steel strip and sheet. Technical delivery conditions	(F6.9)
BS EN ISO 11925	Reaction to fire tests for building products.	
11925-2	Ignitability when subjected to direct impingement of a flame	D1.3
BS EN 12056	Gravity drainage systems inside buildings	
12056-2: 2000	Sanitary pipework, layout and calculation	(M2.1), (M2.2) (M2.5)
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