

SCHEDULE 1

Regulations 3 and 4

ACCESSIBILITY REQUIREMENTS

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PART 1

GENERAL REQUIREMENTS

Boarding devices

1.—(1) Subject to sub-paragraph (2), when a wheelchair-compatible doorway in a rail vehicle is open at a platform at a station, or at a stop, a boarding device must be fitted by the operator between that doorway and the platform, or the stop, if a disabled person in a wheelchair wishes to use that doorway.

(2) Sub-paragraph (1) does not apply where the gap between the edge of the door sill of the wheelchair-compatible doorway and the platform, or stop, is not more than 75 millimetres measured horizontally and not more than 50 millimetres measured vertically.

(3) No boarding device other than a lift or ramp may be used.

(4) If a rail vehicle is fitted with a lift the following requirements must be complied with—

- (a) the lift-platform must be not less than 750 millimetres wide measured parallel to the side of the rail vehicle, and not less than 1200 millimetres long measured at a right angle to the side of the rail vehicle;
- (b) the lift-platform must be capable of supporting a weight of not less than 300 kilograms (excluding its own weight);
- (c) the lift-platform must be marked on its upper surface by a strip of colour which must—
 - (i) abut all the edges of the lift-platform surface;
 - (ii) be not less than 50 millimetres wide; and
 - (iii) contrast with the remainder of the lift-platform surface;
- (d) any vertical sides of the lift-platform must be coloured with the same colour as that of the strip of colour required under paragraph (c);
- (e) the lift-platform surface must be slip-resistant;
- (f) the lift-platform must not travel up or down at a speed in excess of 150 millimetres per second;
- (g) the lift-platform must rest on the surface of the platform or stop when it has been fully lowered;
- (h) save when necessary to enable access to and egress from the lift, the lift-platform must, when in use, deploy a device with a height of not less than 100 millimetres measured from the surface of the lift-platform to prevent a wheelchair rolling off;
- (i) the lift-platform must be fitted with sensors capable of stopping its movement if it comes into contact with any thing or person whilst in motion;
- (j) the lift must only be operated by the operator of the rail vehicle;
- (k) the operator of the rail vehicle must provide assistance to a disabled person in a wheelchair wishing to use the lift;
- (l) if the lift is power operated it must also be operable manually if the power-operation fails; and
- (m) it must not be operable unless the rail vehicle has stopped at a station or stop.

(5) If the boarding device is a ramp, the following requirements must be complied with—

- (a) when in use it must be fixed securely to the rail vehicle;
- (b) it must be not less than 800 millimetres wide and not wider than the opening of the wheelchair-compatible doorway;

- (c) it must have along each side which is not to be crossed by the wheelchair a protective rim with a height of not less than 50 millimetres measured from the surface of the ramp to prevent a wheelchair rolling off;
 - (d) the protective rims must be coloured on each side with the same colour as that of the strip of colour required under paragraph (g);
 - (e) it must be capable of supporting a weight of not less than 300 kilograms (excluding its own weight);
 - (f) when in use its outer end must rest securely on the surface of the platform or stop;
 - (g) it must be marked on its upper surface by a strip of colour which must—
 - (i) abut all the edges of its surface;
 - (ii) be not less than 50 millimetres wide; and
 - (iii) contrast with the remainder of its surface;
 - (h) its surface must be slip-resistant; and
 - (i) the operator of the rail vehicle must provide assistance to a disabled person in a wheelchair wishing to use the ramp unless the gradient of the ramp above the horizontal plane is eight per cent or less.
- (6) If a rail vehicle is fitted with a power operated ramp the following requirements must be complied with, in addition to those indicated in sub-paragraph (5)—
- (a) if the ramp is to be operated by a disabled person in a wheelchair the control for the ramp must be adjacent to the wheelchair-compatible doorway, on both the outside and inside of the rail vehicle, and within reach of a person in a reference wheelchair;
 - (b) the ramp must be fitted, along its outer end, with a sensor capable of stopping the movement of that ramp if it comes into contact with any thing or person whilst the ramp is in movement;
 - (c) the ramp must be incapable of movement if the surface of the ramp is subjected to a load of 15 kilograms or more;
 - (d) the ramp must not be operable unless the rail vehicle has stopped at a station or stop; and
 - (e) the ramp must be operable manually if the power operation fails, and the operator of the rail vehicle must provide assistance to a disabled person in a wheelchair wishing to use the ramp in these circumstances.
- (7) A lift or ramp which is carried by a rail vehicle and which is not in use must be fixed securely to the vehicle so that it does not endanger the safety of persons in that vehicle.

Catering

2. If catering facilities are provided in a rail vehicle or on a train but there is no passageway for a reference wheelchair from a wheelchair space to those facilities, the operator of the vehicle or train must assist a disabled person in a wheelchair by providing a reasonably equivalent catering service to that person at that wheelchair space.

Doors

3.—(1) Subject to sub-paragraph (2), each passenger doorway in the side of a rail vehicle must be indicated clearly by doors which on their exterior contrast with the exterior of the vehicle to each side of the doors (excluding any contrast resulting from a window or control device being set in the doors).

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(2) Sub-paragraph (1) does not apply to a rail vehicle operated exclusively on a network where, at all stations or stops, passengers waiting on platforms are separated from the track or way by screens or other barriers which—

- (a) obstruct the view of the doors of rail vehicles; or
- (b) indicate clearly where the doors of rail vehicles will be once they have stopped for boarding.

(3) Subject to sub-paragraph (4), each passenger doorway in the side of a rail vehicle must be fitted with an audible warning device which must emit warning sounds in accordance with sub-paragraph (5) inside and outside the vehicle in the proximity of each control device for the doorway or, if there is no such control device, adjacent to the doorway.

(4) Sub-paragraph (3) does not apply—

- (a) to a passenger doorway which is, at all times when it is capable of being used by a passenger, under the direct supervision of a member of the operator’s staff who is standing adjacent to the doorway;
- (b) to a rail vehicle when it is not being used for carriage; or
- (c) where a rail vehicle is operated exclusively on a network where, at all stations or stops, passengers waiting on platforms are separated from the track or way by screens or other barriers, if audible warnings of the operation of those screens or barriers, equivalent to those required by sub-paragraph (5), are given at those stations or stops.

(5) Subject to sub-paragraph (6), the audible warning device must—

- (a) where the unlocking of all the passenger doors in the side of a rail vehicle is activated by a member of the operator’s staff, emit a distinct sound for a period of not less than 3 seconds commencing when the doors become openable by passengers; and
- (b) emit a different distinct sound to that required by paragraph (a) and, where applicable, paragraph 1 of Part 2 of this Schedule, commencing not less than 3 seconds before the door starts to close.

(6) Sub-paragraph (5) (a) need not be complied with if paragraph 1 of Part 2 of this Schedule is complied with instead.

(7) In this paragraph “sound” includes the spoken word.

Door controls (power operated)

4.—(1) Subject to sub-paragraph (6), no control device to enable a passenger to open or close a power operated door, other than a device to which sub-paragraph (3) applies, may be fitted to a rail vehicle unless—

- (a) the centre of the control device is not less than 700 millimetres and not more than 1200 millimetres vertically above an imaginary horizontal line extended from the door sill of the relevant doorway;
- (b) the control device is operable by the palm of the hand exerting a force not exceeding 15 newtons;
- (c) the control device, or its immediate surround, is illuminated continuously, or flashes at no greater frequency than 2 hertz or 2 flashes per second, whenever it is operable;
- (d) the control device contrasts with the surface on which it is mounted; and
- (e) the control device is identifiable by touch.

(2) When power operated doors are closed by a member of the operator’s staff the illumination of each such control device must cease not less than 3 seconds before the doors start to close.

(3) Subject to sub-paragraph (4), no control device which causes a door to open automatically as a passenger approaches may be fitted to a rail vehicle unless—

- (a) the door starts to open before any part of a passenger reaches a distance of 500 millimetres, measured horizontally, from the vertical centre line of the door surface;
- (b) the door, once opened, remains open for a period of not less than 5 seconds before it starts to close; and
- (c) if, after the door starts to close, the edge of the door comes into contact with any part of a passenger, or other obstruction, the door opens again.

(4) If a control device to which sub-paragraph (3) applies incorporates a photocell device positioned above the door, the requirement imposed by sub-paragraph (3)(a) is complied with if the distance from the vertical centre line of the door surface is measured horizontally from any single point on that line not less than 300 millimetres above the floor.

(5) For the purposes of this paragraph the requirement for a door control device or, as the case may be, its immediate surround, to be illuminated means that that device must incorporate a dedicated source of illumination which is additional to any illumination provided in the rest of the vehicle.

(6) This paragraph does not apply to a door control device relating to a toilet door.

Door handles

5.—(1) Subject to sub-paragraph (3), a door handle fitted for the use of passengers in a rail vehicle must be operable by the exertion of a force not exceeding 15 newtons.

(2) Subject to sub-paragraph (3), where a door handle fitted to a door for the use of passengers in a rail vehicle has no moving parts, the door must be capable of being opened and closed by the exertion of a force not exceeding 15 newtons.

(3) Sub-paragraphs (1) and (2) do not apply to a door handle of a refrigerator provided for the use of passengers within a catering or retail area on a rail vehicle where a member of the operator's staff is, at all times when that catering or retail area is open for service or for the sale of goods, available to provide assistance to a person who is disabled to operate that handle.

Doorways (exterior) and through routes (wheelchair-compatible)

6.—(1) If a rail vehicle has a wheelchair space then each side of the vehicle which is used for the access and egress of passengers must have at least one passenger doorway which is a wheelchair-compatible doorway.

(2) The width of the opening of a wheelchair-compatible doorway must be not less than 850 millimetres.

(3) Subject to sub-paragraph (4), a sign conforming with diagram B in Schedule 2 must be marked on the exterior of the rail vehicle on at least one side of each wheelchair-compatible doorway, or on at least one door of each wheelchair-compatible doorway, in such a position that it will be visible both before and after the doors have opened.

(4) Sub-paragraph (3) does not apply to a rail vehicle operated exclusively on a network where, at all stations or stops, passengers waiting on platforms are separated from the track or way by screens or other barriers, provided a sign conforming with diagram B in Schedule 2 is marked—

- (a) on those doors of the screens or other barriers which give access to wheelchair-compatible doorways in rail vehicles when ready for boarding, or
- (b) on at least one side of those doors,

and is visible from the platform side both before and after those doors have opened.

(5) The route between a wheelchair-compatible doorway and a wheelchair space must—

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- (a) not have a step, or a slope with a gradient exceeding—
 - (i) five per cent; or
 - (ii) provided the slope does not exceed 2000 millimetres in length, eight per cent; as measured when the vehicle is on a straight and level track;
- (b) not be less than 850 millimetres wide at any point; and
- (c) provide a turning space adjacent to, or partly adjacent to and partly within, a wheelchair space for a disabled person in a reference wheelchair to turn the wheelchair around through one hundred and eighty degrees.

Doorways (interior) (wheelchair-compatible)

7.—(1) Subject to sub-paragraph (2), a passenger doorway in a rail vehicle (which is not in the side of the vehicle) through which a disabled person in a wheelchair must pass to reach a—

- (a) wheelchair space; or
- (b) wheelchair-compatible toilet,

must be not less than 850 millimetres wide.

(2) In its application to a passenger doorway at the end of a rail vehicle, sub-paragraph (1) has effect as if for 850 millimetres there were substituted 750 millimetres.

Floors

8.—(1) The floors of all areas used by passengers in a rail vehicle must be slip-resistant.

(2) Subject to sub-paragraphs (3) and (5), the floor of a vestibule to a passenger doorway in the side of a rail vehicle must contrast with the adjoining floor of the passenger saloon of the vehicle.

(3) Subject to sub-paragraph (5), where the passenger doorway in the side of a rail vehicle is not opposite another external doorway, the extent of the floor of the vestibule which must contrast with the floor of the passenger saloon must only be the extent indicated in sub-paragraph (4).

(4) The extent of the floor of the vestibule referred to in sub-paragraph (3) is that area of it which extends from the internal edge of the door sill of the external door across the internal width of the rail vehicle for not less than 560 millimetres and not more than one third of that width.

(5) The requirements of sub-paragraphs (2) and (3) do not apply where the vestibule and adjoining passenger saloon are separated by a doorway.

(6) At a passenger doorway in the side of a rail vehicle the floor must have a band of single colour running parallel with the full width of the entrance—

- (a) not less than 50 millimetres and not more than 100 millimetres wide;
- (b) the edge of which furthest from the entrance must not be more than 100 millimetres from the edge of the floor at the entrance; and
- (c) which contrasts with the adjoining floor surface.

Handholds

9.—(1) Subject to sub-paragraph (2), a handhold must be fitted to the top of the back of each passenger seat which faces towards an end of a rail vehicle and is next to a gangway in a passenger saloon, and must comply with the following requirements—

- (a) it must contrast with the seat to which it is attached;
- (b) it must have a slip-resistant surface;

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- (c) any edges or corners in its surface (including those in its mountings with the seat) must be rounded off;
 - (d) its exterior design must not incorporate any empty space or gap, including any between it and the seat to which it is attached, having less than 45 millimetres clearance for a passenger's hand; and
 - (e) if its exterior design incorporates any empty space or gap, the cross section of the handhold, excluding any mountings, must have a width of not more than 40 millimetres at its widest point and not less than 20 millimetres at its narrowest point.
- (2) Sub-paragraph (1) does not apply to a seat—
- (a) the back of which touches a partition;
 - (b) the back of which touches the back of another seat which faces in the opposite direction and is fitted with a handhold;
 - (c) which reclines and which, in the reclined position, touches the back of another reclining seat in the reclined position which faces in the opposite direction and is fitted with a handhold;
 - (d) to which a handrail is attached; or
 - (e) which is situated no more than 50 millimetres from a handrail, handhold or partition measured from the top of the back of that seat in both the fixed and, as the case may be, reclined position.

Handrails

10.—(1) A handrail must be fitted in every rail vehicle, on the inside as close as practicable to, and on either side of, the passenger doorways in the side of the vehicle, extending vertically from a point not more than 700 millimetres above the floor to a point not less than 1200 millimetres above the floor.

(2) Any passenger handrail fitted in or to a rail vehicle must comply with the following requirements—

- (a) it must have a circular cross section with a diameter of not less than 30 millimetres and not more than 40 millimetres;
- (b) there must be not less than 45 millimetres clearance for a passenger's hand between any part of the handrail and any other part of the rail vehicle, excluding the mountings of the handrail to the vehicle;
- (c) it must have a slip-resistant surface; and
- (d) it must contrast with the parts of the rail vehicle adjacent to that handrail.

Passenger information

11.—(1) The interior of a rail vehicle must be fitted with a public address system for audible and visual announcements.

(2) Subject to sub-paragraph (4), if rail vehicles are hauled by one or more locomotives, the lead locomotive must be fitted with a public address system for visual announcements on its exterior, which includes a display fitted on its front, unless all the rail vehicles hauled have such a system with a display fitted on both sides of their exterior instead of on their front.

(3) Subject to sub-paragraph (4), if a rail vehicle is not hauled by a locomotive, it must be fitted with a public address system for visual announcements on its exterior where it—

- (a) operates as a single vehicle, in which case the display must be fitted on its front;

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- (b) is the lead vehicle of two or more coupled together which, including itself, do not all have displays on both sides of their exterior, in which case the display must be fitted on its front; or
- (c) is one of two or more coupled together, but is not the lead vehicle, and the lead vehicle does not have a display fitted on its front, in which case a display must be fitted on both sides of the exterior operates as a single vehicle, in which case the display must be fitted on its front.

(4) Sub-paragraphs (2) and (3) does not apply to rail vehicles operated exclusively on a prescribed system where public address systems for visual announcements are in operation at all stations or stops, giving details of the destination of the vehicles or, if they are following a circular route, the name or number of the route.

(5) Whilst a rail vehicle is stationary at a station or stop any public address systems required to be fitted inside the vehicle, and on its exterior, must be used to announce the destination of the vehicle or, if it is following a circular route, the name or number of the route and, in the case of systems inside the vehicle only, to announce the next stop.

(6) Subject to sub-paragraph (7), the public address systems inside the rail vehicle must be used—

- (a) to announce the next station, or stop, at which the vehicle will be stopping, not less than once during the period beginning five minutes before the vehicle is expected by the operator's staff to stop at that station or stop;
- (b) to announce any delay exceeding ten minutes to the scheduled timing for that journey;
- (c) to announce any diversions from the route shown in the published timetable for that journey; and
- (d) to make emergency announcements.

(7) Sub-paragraph (6) (a) does not apply if the timetabled journey time between stations or stops is less than two minutes.

(8) Subject to sub-paragraph (9), in displays on the exterior of a rail vehicle the first letter of, and numbers used in, visual announcements must not be less than 70 millimetres high on displays mounted on the front of the vehicle and not less than 35 millimetres high on displays mounted on the side of a rail vehicle, and all letters and numbers must contrast with their background.

(9) In displays on the exterior of a narrow width vehicle the first letter of, and numbers used in, visual announcements must not be less than 35 millimetres high, and all letters and numbers must contrast with their background.

(10) Displays inside a rail vehicle must, when all passengers are seated, be viewable from at least 51 per cent of passenger seats, (including priority seats), and from at least 51 per cent of priority seats.

(11) A letter or number used in a display inside a rail vehicle must—

- (a) contrast with its background; and
- (b) in dimension, not have a height which is less than the minimum height ascertained in accordance with sub-paragraph (12).

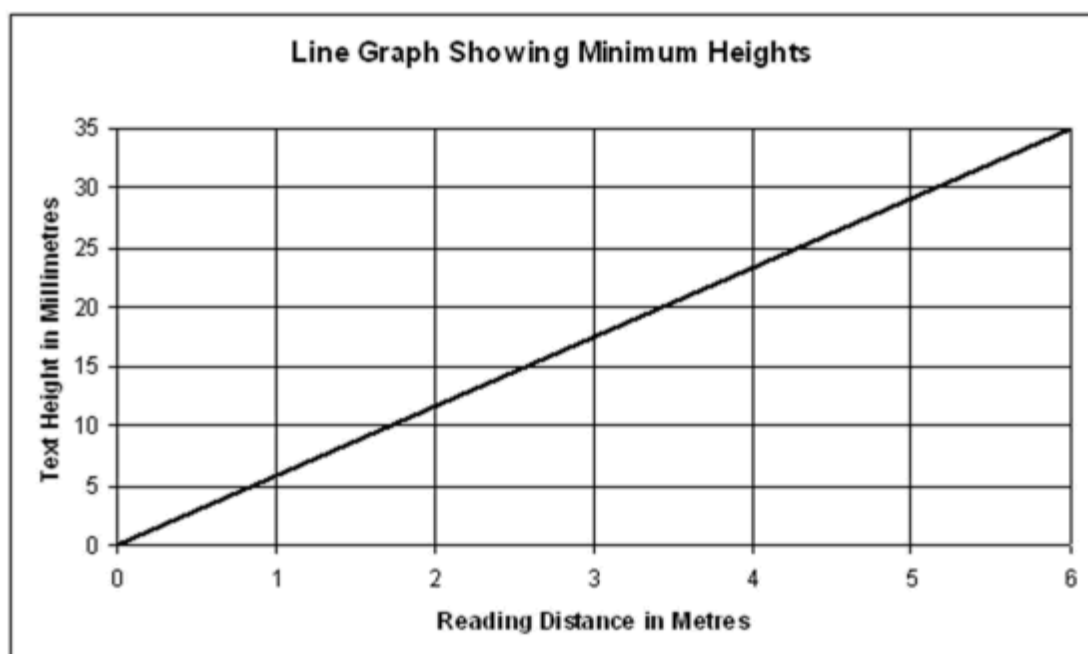
(12) The minimum height referred to in sub-paragraph (11) (b) is—

- (a) for a reading distance of 6 metres or less, the height on the vertical axis of the following graph which is opposite the point on the line shown on the graph which intersects with the reading distance on the horizontal axis (e.g. for a reading distance of 6 metres the minimum height is 35 millimetres); and
- (b) for a reading distance of more than 6 metres, 35 millimetres.

(13) In sub-paragraph (12)—

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- (a) “reading distance” means the distance between a display and the furthest passenger space in a rail vehicle for which that display is the nearest readable display;
- (b) “passenger space” means a space provided for a passenger in the passenger saloon, or vestibule adjoining an exterior doorway, of a rail vehicle, whether sitting or standing, (the distance between the display and that space to be measured from the eye level of a passenger occupying that space, assuming the passenger to be a 95th percentile man or a 5th percentile woman); and
- (c) “readable display” means a display which is not positioned at such an acute angle from the line of vision of the passenger space as to be unreadable.



- (14) A word on a display must not be written in capital letters only.

Request-stop controls

12.—(1) This paragraph applies if a rail vehicle is operated on a route with request-stops and is fitted with controls (“controls”) to enable passengers to indicate their wish for the vehicle to stop at one.

- (2) The controls must be located—
 - (a) within reach of a person seated in a priority seat;
 - (b) within reach of a person seated in a wheelchair in a wheelchair space; and
 - (c) adjacent to at least every third row of seats.
- (3) The controls must be fitted at a height—
 - (a) not less than 1150 millimetres;
 - (b) not more than 1250 millimetres, if they are for the use of seated passengers; and
 - (c) not more than 1500 millimetres, if they are for the use of other passengers;

as measured vertically from the floor of the vehicle to the centre of each control.

- (4) The surround of a control must contrast with the control and with the surface on which the surround is mounted.

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(5) The control must be operable by the palm of the hand exerting a force not exceeding 15 newtons.

(6) When a control has been operated signs bearing the word “Stopping”, in which the first letter only must be a capital letter, must be illuminated and remain illuminated inside the vehicle, and inside any vehicles coupled to it, until they have stopped and one or more of their doors have opened.

(7) Signs of the type required by sub-paragraph (6) must be viewable from any part of the passenger saloon of the vehicle.

Seats

13.—(1) Not less than 10 per cent of the passenger seats in a rail vehicle or 8 passenger seats (whichever is the lesser number) must be designated by signs complying with sub-paragraph (6) as priority seats for the use of disabled persons.

(2) No priority seat may be capable of being tipped up or folded whilst the rail vehicle is used for carriage.

(3) Each priority seat, and the space available to its user, must comply with the specifications shown in diagram C1 and in either diagram C2, C3 or C4 in Schedule 2.

(4) Any armrest fitted to a priority seat must be movable to the extent required to permit unrestricted access by a disabled person to that seat, and any armrest fitted to any other passenger seat must be so moveable if access to a priority seat is gained past it.

(5) If tables or trays (whether fixed, adjustable or folding) are fitted for the use of passengers at not less than 10 per cent of the seats (other than priority seats) in a rail vehicle, a similar table or tray must be fitted for the use of persons in each priority seat.

(6) There must be a sign on or near to a priority seat indicating that disabled persons have priority for the use of that seat.

Steps

14.—(1) Subject to sub-paragraph (2), steps for the use of passengers at any passenger doorway in the side of a rail vehicle must comply with the following requirements—

- (a) the surface of each tread must be covered in slip-resistant material;
- (b) along the front edge of each tread there must be a band of single colour, not less than 45 millimetres and not more than 50 millimetres deep, which must contrast with the remainder of the tread;
- (c) subject to paragraph (d), the rear of each tread must be closed by a riser fixed from the rear of the tread to the front edge of the tread above or, where there is no tread above, to the front edge of the floor of the vehicle;
- (d) the riser described in paragraph (c) may incorporate a gap which must be no larger than necessary to provide the minimum space required to enable any door opening mechanism to operate;
- (e) each step must be illuminated by a light placed within or immediately adjacent to the step;
- (f) each step must be not more than 200 millimetres high measured vertically from the surface of the tread to an imaginary line extended horizontally from the surface of the next tread or floor of the vehicle;
- (g) each step must be not less than 300 millimetres deep measured from the front edge of the tread to its rear; and
- (h) the surface of each tread must be not less than 455 millimetres wide.

(2) Paragraphs (f) to (h) do not apply if there is not more than one step outside an external doorway.

(3) Subject to sub-paragraph (4), inside a rail vehicle there must be no step between the passenger doorway in its side and that part of the passenger saloon to one side of that doorway for as far as and including either the vestibule of the next passenger doorway on the same side of that vehicle or the end of that vehicle if there is no other such doorway.

(4) Sub-paragraph (3) does not apply to—

- (a) a step situated immediately inside a passenger doorway in the side of a rail vehicle; or
- (b) a flight of stairs inside a rail vehicle leading between a lower and upper passenger saloon.

(5) Any step situated immediately inside a passenger doorway in the side of rail vehicle must have its riser between 130 millimetres and 160 millimetres from the external door.

Toilets

15.—(1) If a toilet is fitted in a rail vehicle the following requirements must be complied with—

- (a) the centre of any door control device to the toilet door must be not less than 800 millimetres and not more than 1200 millimetres in height above the floor;
- (b) subject to sub-paragraph (2), any door control device to the toilet door, or equipment inside the toilet cubicle which is for the use of a passenger, must be operable by the exertion of a force not exceeding 15 newtons;
- (c) the seat and any lid of the toilet, and any handholds in the toilet cubicle, must contrast with the adjacent parts of the toilet cubicle;
- (d) the immediate surround of a door control device to the toilet door must contrast with—
 - (i) the door control device; and
 - (ii) that part of the toilet cubicle, or toilet exterior, on which it is mounted; and
- (e) a door control device to the toilet door, and any equipment inside a toilet cubicle which is for the use of a passenger, must—
 - (i) be identifiable by touch; or
 - (ii) include the provision of tactile signage where that device or equipment is sensor operated.

(2) Sub-paragraph (1) (b) does not apply to a nappy-changing table, save in relation to the stowing of it.

(3) For the purposes of this paragraph “door control device” includes door handles and locks on the interior and door handles on the exterior of the toilet cubicle.

(4) A toilet fitted in a rail vehicle must be operational when the vehicle is being used for the carriage of passengers.

Toilets (wheelchair-compatible)

16.—(1) If a rail vehicle operating as a single vehicle, or a train, is fitted with one or more toilets, the toilet, or the nearest one to a wheelchair space as the case may be, must conform with the following requirements (in addition to those of paragraph 15)—

- (a) the exterior of the toilet door must be marked with a sign conforming with diagram B in Schedule 2;
- (b) the width of the toilet doorway must be not less than 850 millimetres;

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- (c) the top surface of the toilet seat when lowered must be such that at least two-thirds of it, measured from its end furthest away from the point at which the toilet is attached to the wall, is between 475 millimetres and 485 millimetres in height from the floor;
 - (d) the toilet cubicle must be equipped with facilities to enable a disabled person in a wheelchair to wash and dry their hands without moving from the seat of the toilet;
 - (e) there must be sufficient space inside the toilet cubicle for a reference wheelchair to be positioned in front of the toilet and to be positioned at one side of the toilet so that it is possible for a disabled person to move from a reference wheelchair on to the toilet seat from the front or the side of the toilet;
 - (f) there must be a hinged handrail beside the toilet which must—
 - (i) be on the same side of the toilet as the space for a reference wheelchair;
 - (ii) conform with the requirements of paragraph 10(4);
 - (iii) conform with the specifications in diagram D1 in Schedule 2; and
 - (iv) conform with the specifications in diagram D2 in Schedule 2 to such an extent that at least two-thirds of the top-surface of the handrail, when in the deployed position, measured from its end furthest away from the point at which it is attached to the wall, is between 745 millimetres and 755 millimetres high measured from the floor;
 - (g) there must be a horizontal handrail beside the toilet, on the opposite side to the space for a reference wheelchair, which conforms with the requirements of paragraph 10(4); and
 - (h) the toilet cubicle must be fitted with not less than two devices which—
 - (i) enable a disabled person in a wheelchair to communicate with a person who is in a position to take appropriate action in an emergency, to the same extent as a passenger who is not in a wheelchair can communicate with such a person by the use of an emergency alarm fitted elsewhere than in the toilet;
 - (ii) are placed so that one is not more than 450 millimetres above the floor, measured to the top of the device, and the other is not less than 800 millimetres and not more than 1200 millimetres above the floor, measured to the top of the device; and
 - (iii) are operable by the palm of the hand exerting a force not exceeding 30 newtons.
- (2) The devices fitted in accordance with sub-paragraph (1) (h) may include a protective cover to prevent accidental operation, provided that such a cover does not affect compliance with the operational requirements of that sub-paragraph.
- (3) The route between a wheelchair space and the nearest wheelchair-compatible toilet must not be less than 850 millimetres wide at any point.
- (4) Space must be provided adjacent to, or within, the nearest wheelchair-compatible toilet to a wheelchair space for a disabled person in a reference wheelchair to turn the wheelchair round through one hundred and eighty degrees.

Transparent surfaces (interior)

- 17.—(1) Subject to sub-paragraph (3), any transparent surface forming part of a rail vehicle which is located in that part of the interior of the vehicle which is accessible for passengers must—
- (a) be separated from where a passenger can walk or go in a wheelchair by a seat, table, handrail compliant with paragraph 10 (2) or other fitting; or
 - (b) bear a coloured marking which must—
 - (i) be not less than 140 millimetres and not more than 160 millimetres wide;
 - (ii) extend horizontally across the whole width of the transparent surface; and

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(iii) be situated so that the bottom edge of that marking is at a height of between 1485 and 1515 millimetres measured vertically from the floor; or

(c) be bounded on any edge which is not attached to the floor, wall or ceiling of the vehicle by a handrail which complies with paragraph 10 (2).

(2) For the purposes of this paragraph “transparent surface” means a transparent surface which is vertical and, if it forms part of a larger vertical surface, comprises more than 75% of the total vertical surface area of which it forms part (and “vertical” for this purpose means vertical or thereabouts).

(3) This paragraph does not apply to any windows fitted in doors at the side of a rail vehicle or to any other external windows fitted in the side of a rail vehicle.

Wheelchair spaces (numbers required)

18.—(1) A rail vehicle which does not form part of a train must have at least one wheelchair space.

(2) Subject to sub-paragraph (3), where one or more rail vehicles in a train provide a different class of passenger accommodation from another rail vehicle in that train there must be at least one wheelchair space for each class of passenger accommodation in that train.

(3) Where a train consists of the number of rail vehicles shown in a row of column A of the following table that train must have at least the number of wheelchair spaces shown in the opposite row of column B;

<i>A</i>	<i>B</i>
2 to 7 vehicles	2 wheelchair spaces
8 to 11 vehicles	3 wheelchair spaces
12 or more vehicles	4 wheelchair spaces

Wheelchair spaces (obstructions)

19. There must be no obstruction to prevent, or cause unreasonable difficulty to, a reference wheelchair being manoeuvred in a rail vehicle to, from, into or out of any—

- (a) wheelchair-compatible doorway;
- (b) wheelchair space; or
- (c) wheelchair-compatible toilet.

Wheelchair spaces (specifications)

20.—(1) A wheelchair space must not be less than—

- (a) 1300 millimetres long measured parallel to the length of the rail vehicle; and
- (b) 750 millimetres wide measured parallel to the width of the rail vehicle.

(2) Subject to sub-paragraphs (3) and (12), no fittings for the use of passengers, other than disabled persons in wheelchairs, may be installed within a wheelchair space.

(3) Sub-paragraph (2) does not restrict the installation of—

- (a) an overhead luggage rack;
- (b) an openable window;
- (c) a handrail that conforms with paragraph 10(4) and with sub-paragraph (9) or (10); or
- (d) a table or tray that conforms with paragraph 21.

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(4) The wheelchair space must incorporate, at one end, a fitting with a minimum width of 700 millimetres capable of preventing a reference wheelchair, with its back against the fitting, from moving or tipping towards the fitting.

(5) The wheelchair space must be fitted with a device which—

- (a) enables a disabled person in a wheelchair to communicate with a person who is in a position to take appropriate action in an emergency, to the same extent as any passenger who is not in a wheelchair can communicate with such a person by the use of an emergency alarm fitted elsewhere than in the wheelchair space;
- (b) is placed within reach of a person in a reference wheelchair; and
- (c) is operable by the palm of the hand exerting a force not exceeding 30 newtons.

(6) A device fitted in accordance with sub-paragraph (5) may include a protective cover to prevent accidental operation, provided that such a cover does not affect compliance with the operational requirements of that sub-paragraph.

(7) Subject to sub-paragraph (8), a sign to identify a wheelchair space must be placed immediately next to, or in, the wheelchair space and the sign must conform with either diagram B or E in Schedule 2.

(8) Where a diagram E sign is to be placed other than on a wall against which the back of a wheelchair should be placed, alternative wording to that shown in diagram E may be used on the sign to the extent necessary to advise users where to position their wheelchairs.

(9) If a wheelchair space is to have a horizontal handrail, excluding a handrail fitted in accordance with sub-paragraph (10), the handrail must—

- (a) be fitted onto, and parallel with, the side of the rail vehicle;
- (b) be not less than 650 millimetres and not more than 1000 millimetres in height measured vertically from the floor; and
- (c) not protrude into the wheelchair space by more than 90 millimetres.

(10) If a handrail is to be fitted to the ceiling of a rail vehicle, it may protrude into a wheelchair space provided that—

- (a) subject to sub-paragraph (11), it must not do so by more than 250 millimetres measured from the passenger gangway side of that space; and
- (b) its height must be not less than 1500 millimetres measured vertically from the floor.

(11) In its application to a narrow width vehicle, sub-paragraph (10) (a) has effect as if for 250 millimetres there were substituted 400 millimetres.

(12) Folding or tip-up seats may be installed in a wheelchair space for the use of passengers where the space is not needed by a disabled person in a wheelchair provided the seats, when folded or tipped up, do not protrude into the minimum space required by sub-paragraph (1).

Wheelchair spaces (tables and trays)

21.—(1) If tables or trays (whether fixed, adjustable or folding) are fitted for the use of passengers at not less than ten per cent of the seats (other than priority seats) in a rail vehicle, a similar table or tray must be fitted for use in any wheelchair space in that vehicle by a disabled person in a wheelchair.

(2) The operator of a rail vehicle must provide assistance to erect a removable or folding table or tray, or to alter the height of an adjustable table, in a wheelchair space upon request made by or on behalf of a disabled person in a wheelchair.

(3) There must be no obstruction in the space under a table in a wheelchair space other than a table-leg, but any table-leg must be positioned so that unobstructed clearance of not less than 700 millimetres in width is given under the table.

(4) Subject to sub-paragraph (5), the lowest point on the underside of a table or tray top in a wheelchair space must be not less than 720 millimetres in height measured vertically from the floor.

(5) Where an adjustable table is fitted in a wheelchair space—

- (a) it must be capable of being adjusted to meet the requirement of sub-paragraph (4); and
- (b) there must be adjacent to the table a sign clearly visible from the position of an occupant of a wheelchair in the wheelchair space indicating that the height of the table can be adjusted on request made to a member of the operator's staff.

PART 2

ADDITIONAL REQUIREMENTS

Doors

1. Where the opening of all the passenger doors in the side of a rail vehicle is activated by a member of the operator's staff, or activated automatically, the audible warning device required by paragraph 3(3) of Part 1 of this Schedule must emit a distinct sound for a period of not less than 3 seconds commencing when the doors begin to open.

Flashing lights

2. Any flashing lights installed on or inside a rail vehicle which are designed to be operated for the attention of passengers must not flash at a greater frequency than 2 hertz or 2 flashes per second.

Floors

3. At a passenger doorway in the side of a rail vehicle the edge of the floor along the entrance must be illuminated by a light placed within or immediately adjacent to that edge.

Passenger information

4.—(1) If horizontal or vertical scrolling displays are used—

- (a) any station names (which may be abbreviated) and any other complete words or messages must be displayed for a minimum of 2 seconds; and
- (b) horizontal scrolling displays must have a scrolling speed not exceeding 6 characters per second.

(2) In displays, ascenders and descenders must have a minimum size ratio of 20% to upper case characters.

(3) In this paragraph—

- (a) “ascender” means that part of any of the letters b, d, f, h, i, j, k, l or t which protrudes above the height of other letters;
- (b) “descender” means that part of any of the letters g, j, p, q or y which protrudes below the level of the base of other letters; and
- (c) “other letters” means the letters a, c, e, m, n, o, r, s, u, v, w, x and z.

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Seats

5. Paragraph 13(1) and (6) of Part 1 of this Schedule must be complied with as if the expression “disabled persons” includes persons whose mobility is restricted by reason of pregnancy, advanced age or of their accompanying small children.

Steps

6. Inside a rail vehicle, steps which form part of a flight of stairs leading between a lower and upper passenger saloon must comply with the requirements described in paragraphs (a) to (d) of paragraph 14 (1) of Part 1 of this Schedule.

Wheelchair spaces (specifications)

7. As measured when a rail vehicle is on a straight and level track, a wheelchair space must not have a slope with a gradient exceeding five per cent in the transverse plane of the rail vehicle, or any slope in the longitudinal plane of the vehicle.