### Appendix 1

# Hillingdon Local Plan

# Accessible Hillingdon Supplementary Planning Document

Draft for Consultation January 2017



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#### **Foreword**

Hillingdon continues to embrace the future, with forward looking design principles focused on 21st-century living. As it becomes more apparent that 'inclusive design' is synonymous with 'good design', the goal to create buildings and public places that allow everyone to use facilities and services, regardless of personal circumstance, remains a priority.

Pregnancy, injury, illness, disability, moving around with children, or simply getting older should not prove a barrier to accessibility. Hillingdon Council is therefore building on existing policies and national housing standards to ensure that our built environment is fully accessible.

With this goal in mind, the London Borough of Hillingdon reiterates its commitment to ensure that 'access for all' is an absolute requirement of designers and developers to ensure that all new homes, public buildings, places and spaces truly meet the requirements of all our residents, and especially the accessibility needs of our disabled and older residents.

We look forward to early engagement and continued teamwork with forward thinking professionals who embrace the principle and spirit of inclusive design.

Hillingdon Council recognises that Planning and Building Control are central to our goal to create buildings, spaces and places that allow everyone to use facilities and services equitably, regardless of personal circumstance: pregnancy, injury, period of ill health, disability, moving around with children or simply as people get older.

'Accessible Hillingdon' builds on the policy and legislation now in place, and aims to assist professionals involved in shaping the built environment to identify design solutions that support the everyday needs and lifestyles of our diverse community.

As we work towards creating a borough that is welcoming to everyone, Hillingdon Council is committed to ensure that accessibility is not a mere gesture, but an absolute requirement of designers and developers to ensure that good design is embedded into the infrastructure of the community. With this in mind, the Council will only encourage development where access and high-quality design is interwoven and based on standards compatible with 21st Century living.

We look forward to early engagement and continued teamwork with all professionals involved in the development process who embrace the principle and spirit of inclusive design.



Councillor Keith E Burrows, Portfolio Holder, Planning, Transportation and Recycling

#### Introduction

A truly inclusive environment materialises only when the finer points of access and inclusion have been part and parcel of the initial design brief, and re-evaluated throughout the detailed design stage of a development.

Development applications where accessibility is an obvious 'bolt on', or where it has otherwise been poorly considered, will invariably slow the planning process and may result in planning refusal on those grounds alone.

'Accessible Hillingdon' echoes various Codes of Practice pertinent to the design of inclusive environments, and in some instances goes beyond minimum requirements. It offers practical and technical best practice guidance to enable planning applicants, developers, architects, urban designers, and other professionals to adopt a realistic approach to Inclusive Design.

'Accessible Hillingdon' is supplementary to the Hillingdon Local Plan Part 1: Strategic Policies 7.13, 7.14 and 7.15. Hillingdon UDP (Unitary Development Plan) Saved Policies AM13, AM15, AM16, OL19, LE1 and R16 for the present, serve as Part 2 policies of the Local Plan. This SPD also supplements London Plan (2011) Policies 3.1, 3.5, 3.8, 4.5, 4.12, 7.1 and 7.2.

'Accessible Hillingdon' is a material consideration in determining the outcome of planning applications.

### **Legislation and Guidance**

#### **Part M to the Building Regulations**

Building Regulations Approved Document M 2015 sets minimum standards to enable people to easily access new housing and public buildings. The regulations cover public buildings and new dwellings. Part M generally applies to material alterations of, and extensions to, existing buildings. It applies to material changes of use to some non-domestic uses. There is no exception for historic buildings, but Part M contains guidance on such buildings.

Building Regulations Approved Document M 2004 (incorporating the 2010 and 2013 amendments) sets minimum standards to enable people to access and use buildings with ease. The regulations cover public buildings and new dwellings. Part M applies generally to material alterations of, and extensions to, existing non-domestic buildings. It applies to material changes of use to some non-domestic uses. There is no exception for historic buildings, but Part M contains guidance on such buildings.

#### BS 8300: 2009+A1:2010 - Code of Practice

BS 8300: 2009 provides best practice guidance on the design of buildings and their approaches to meet the needs of disabled people. The standard covers domestic and non-domestic buildings and exceeds the minimum requirements of the Building Regulations.

#### British Standard 9999: 2008

BS 9999:2008 builds on legislation to provide an advanced approach to fire safety in the design, management and use of buildings, with particular reference to means of escape for disabled people. (BS9999 supersedes DD9999, and the entire BS 5588 series (with the exception of BS 5588-1).

#### **Equality Act 2010**

The Equality Act 2010 gives disabled people particular rights in the areas of education, employment, access to goods, facilities and services, in addition to buying or renting land or property. The Act makes it unlawful for employers and service providers to treat people less favorably on the grounds of their disability. To allow access by disabled people, the duty may require the removal of a physical barrier or modification of a building and/or an adjustment to how a service is delivered.

#### Special Education Needs

The Equality Act places a duty on Local Education Authorities and on schools not to discriminate against, harass or victimise disabled children. All early years providers must make reasonable adjustments to prevent disabled children from being placed at a substantial disadvantage, which includes accessibility to and within buildings, as well as the provision of auxiliary aids and services. This duty is anticipatory, and all publicly funded early years providers must promote equality of opportunity for disabled children. Further details on the disability discrimination duties can be found in Chapter 1 of the Equality Act 2010.

The Special Educational Needs and Disability Act 2001 (SENDA) has by and large been subsumed within the Equality Act 2010. However, as SENDA 2001 made considerable amendments to the Education Act 1996, those sections of the 2001 Act that amended the Education Act 1996 remain in effect. The Act places a duty on Local Education Authorities and schools to systematically plan and implement access improvements to school buildings and other educational facilities. Colleges and universities are obligated to provide accessible services and auxiliary aids and may be required to make physical alterations to a building.

#### The Planning and Compulsory Purchase Act 2004

The Act modified procedures in development planning and control to include a number of provisions related to Access Statements.

#### Accessible London: Achieving an Inclusive Environment, GLA (April 2004-October 2014)

The GLA's Supplementary Planning Guidance 'Accessible London' provides detailed information on implementing relevant London Plan policies.

### **Regional Planning Policy**

#### The London Plan 2011 2016

A key objective of the London Plan 2016 is to build a London that achieves the highest standards of safe, easy and inclusive access for all people, regardless of disability, age or gender. The plan includes policy requirements for accessible housing.

#### **National Planning Policy Framework (NPPF)**

The NPPF sets out the Government's planning policies for England, which includes a framework on how local and neighbourhood plans are expected to apply inclusive design.

#### **Residential Development**

Hillingdon Council has adopted Lifetime and Wheelchair Home Standards in line with London Plan Policy 3.8 to provide homes that are accessible and flexible in their appeal and application. In addition, to ensure that all new homes are designed to minimise people having to move home as their circumstances change, and to ensure that all accessibility provisions are robust, the Council seeks additional design features that exceed the post-July 2010 Lifetime Home Standards.

The Lifetime Home Standards and wheelchair accessible housing are a planning requirement. Full details of a proposed development, including the external design features, should be submitted with a planning application. Floor plans should include turning circles in context to typical furniture layout, to demonstrate sufficient manoeuvring space exists for wheelchair users.

All new residential developments must:

- adhere to GLA minimum floorspace standards (refer to London Plan Policy 3.5 and Mayor of London's 'Housing' Supplementary Planning Guidance, November 2012);
- be designed to Lifetime Home Standards (refer to London Plan Policy, 3.8 and Mayor of London's 'Housing' Supplementary Planning Guidance, November 2012):
- include additional accessibility features that are complementary to the Lifetime Home Standards:
- in developments comprising 10 or more dwellings, have 10% designed to Wheelchair Home Standards.

These standards are applied to all types of dwelling, in both the private and affordable housing sectors. They also apply to:

- conversions, e.g. a house into flats;
- change of use applications;
- the residential element of a Live Work scheme.

It may not be feasible to incorporate the standards into some existing buildings, in which case the reason(s) should be justified within the accompanying Access Statement (see page 70).

NB: Hillingdon Council will not look favourably upon proposed housing developments that fall below the following standards.

In line with London Plan Policy 3.8, Hillingdon Council has adopted the Housing - Optional Technical Standards.

- Ninety percent of new dwellings should meet M4(2) for an accessible and adaptable home as set out in Approved Document M to the Building Regulations (AD M).
- Ten percent of new homes should meet the requirements of an M4(3) wheelchair adaptable or accessible dwelling as prescribed in AD M.

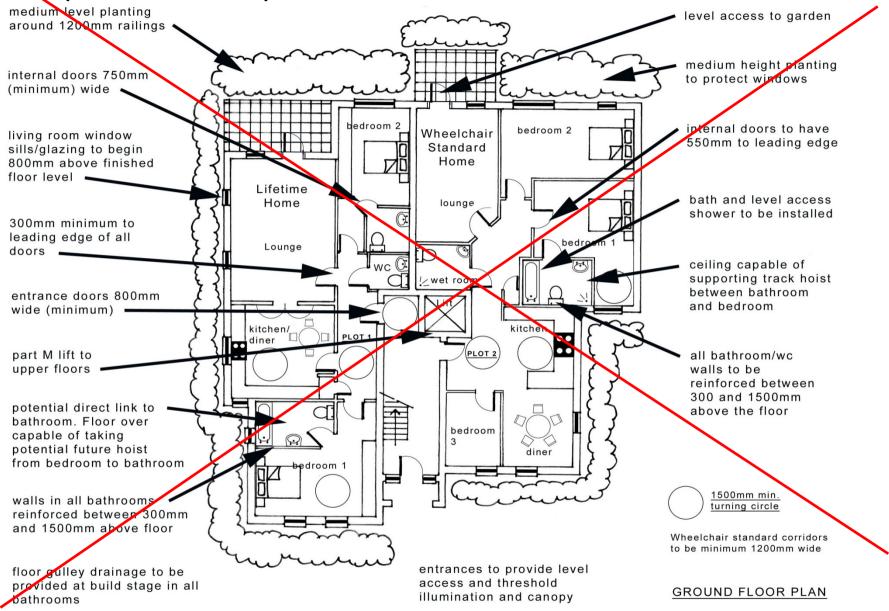
Full details of a proposed development, including its external design features, should be submitted with a planning application. Floor plans should include detailed furniture plan layouts, the requisite room dimensions, and critical measurements between items of furniture in rooms,

All new residential developments must also:

• adhere to GLA minimum floorspace standards (refer to London Plan Policy 3.5 and Mayor of London's 'Housing' Supplementary Planning Guidance, March 2016).

NB: These standards are applicable to all new housing in the private and affordable housing sectors.

### Example of a Flatted Development Floor Plan

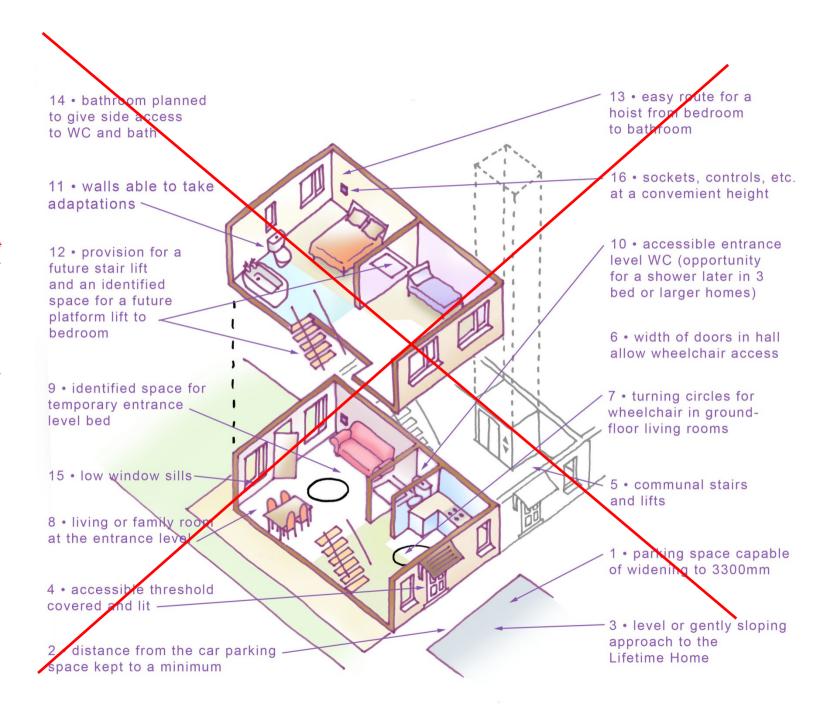


# Lifetime Home Standards

A Lifetime Home is defined by 16 criteria that make residential accommodation more convenient, flexible and adaptable. Lifetime Homes are designed to be able to cope with families' changing needs.

Built in features such as wide doors, level access and removable concealed panels become invaluable as people get older and perhaps less mobile.

The design can also allow many disabled people to occupy a Lifetime Home with minor or no alteration; however, they will only suit the needs of some wheelchair users.



## The Council will require Lifetime Home Standards to be shown on plan at the following stages:

	Outline planning	Full Planning
(1) Car parking capable of enlargement	•——	•
(2) Easy access from car parking		•——
(3) Gentle approach gradient		•
(4) Level entrance		•
(5) Communal stairs & lifts	•	•
(6) Accessible doorways & hallways		•
(7) Wheelchair turning circles		•
(8) Entrance level living room	•	•
(9) Entrance level bed space		•
(10) Entrance level WC& shower drainage	•	•
(11) Reinforced bathroom & WC walls		•
(12) Stairlift / through-floor lift		•
(13) Tracking hoist route	•——	•
(14) Suitable bathroom layout	•	•
(15) Lounge glazing 800 mm above floor		•
(16) Controls, fixtures & fittings		

To ensure that homes offer standards of accessibility that can be relied upon, and to ensure that homes are adaptable without the need for substantial post-construction alterations, residential developments must ensure:

Accessible Parking (Lifetime Home Standard 1)

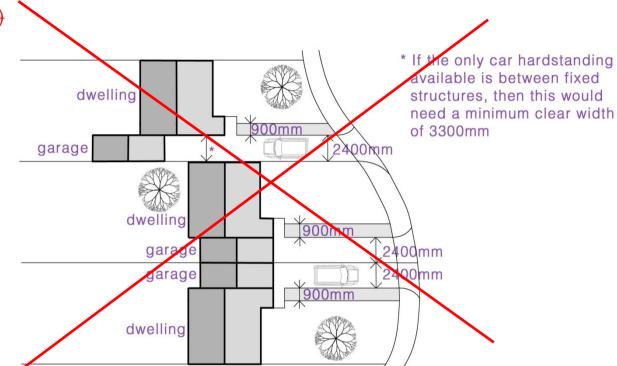
Where a parking space is provided it should be allocated to a particular dwelling. The principle is to provide parking (or enable cost-effective adaptation) that facilitates easy access in and out of a vehicle for a wide range of people, including older and disabled people and those with children.

#### The parking bay should:

- be 2400 mm wide but capable of enlargement to 3300 mm by incorporating a 900 mm path or by removing a garden strip adjacent to the bay (Lifetime Home Standard 1a)
- be 4800 mm in length (whether enlarged or not). (Lifetime Home Standard 1a)
- not be marked as accessible parking;
- allow car parking as close as possible to the home (Lifetime Home Standard 2);
- be allocated (i.e. numbered) to a specific dwelling.

NB: A degree of flexibility is permitted for development comprising blocks of flats.

Communal or shared parking areas should (Lifetime Home Standards 1b):



- ensure 10% of bays are a minimum of 2400 mm wide x 4800 mm deep, with a shared transfer zone of 1200 mm between bays (in addition to any Wheelchair Home Standard parking requirements);
- be, in the case of undercroft or basement car parks, located close to pedestrian exit points or lift cores;
- provide a clear access route (minimum width 1200 mm) between the parking bays and building entrance;

NB: The Council will require a Parking Management Plan for developments comprising ten units or more.

#### Approach to Dwelling from Parking (Lifetime Home Standard 2)

The car parking space should be as close as possible to the dwelling entrance, block entrance or lift core within flatted developments. The same design principles should apply to visitor parking'. Provisions should:

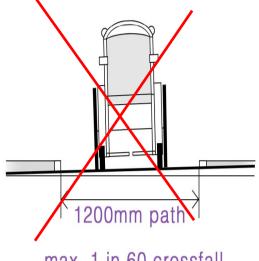
- ensure level access is provided to the principle entrance;
- aim to provide a parking bay adjacent to the home as an optimum arrangement;
- within large developments, aim to provide accessible car parking bay(s) within 50 m of a communal entrance or lift core (where the distance exceeds 50 m, resting places should be provided en route);
- ensure individual dwellings provide a 900 mm wide (min) pathway to the home;
- ensure pathways leading to communal entrances provide a minimum width of 1800 mm;

NB: Where topographical constraints (e.g. flood risk) would make it unfeasible to design the principal entrance as level, the route may be gently sloping as per the maximum gradients set out in Lifetime Home Standard 3.

### Approach to the home (Lifetime Home Standard 3)

#### The route to the home must be:

- no steeper than 1:21, with any crossfall not exceeding 1:60:
- gently sloping where topographical constraints prevent level access. In such instances, ramps should be designed in accordance with Part M to the Building Regulations (2004 edition). No ramp should exceed 10 m in length:
- firm, reasonably smooth and slip-resistant;
- no less than 1800 mm wide, where a path or pavement leads to a communal entrance;
- a minimum of 900mm wide, and where turning is necessary, no less than 1200 mm wide:



max 1 in 60 crossfall

NB: an access ramp (designed to Part M Standards) should be incorporated only as a last resort and fully justified as part of an accompanying Design & Access Statement (see page 69).

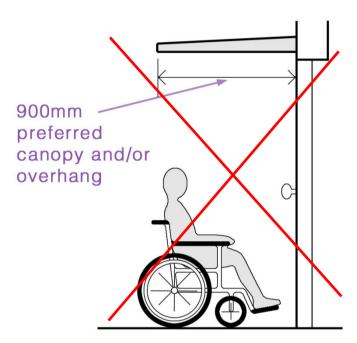
#### In addition, the design should:

- feature a setting down point close to the main entrance for blocks of flats;
- ensure access routes are well lit and provide even luminance (minimum 50 lux) across a path surface.

#### Entrance (Lifetime Home Standard 4)

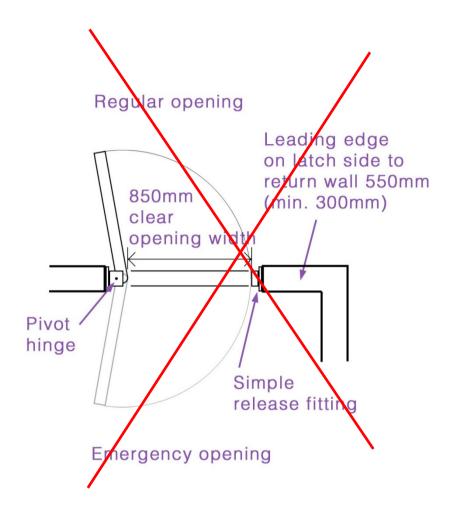
#### All entrances to a Lifetime Home must:

- feature a level landing of 1200 x 1200 mm;
- provide a covered entrance canopy of at least 600 mm in depth (900 mm typical);
- be well lit with diffused lighting between 100 and 200 lux;
- provide an effective entrance door width of at least 800 mm;
- ensure the principal entrance is level (maximum up-stand 15 mm). This also applies to balcony and roof terrace doors;
- feature a carefully designed threshold and damp proof specification to eliminate ingress of rainwater and moisture;
- provide 300 mm of clear space to leading edge of door (at least on pull side)



#### In addition, communal entrances should:

- provide a level landing of 1500 x 1500 mm outside communal entrance doors. These dimensions should be clear of all door swings and provide adequate weather protection;
- provide an entrance canopy at least 900 mm deep (1200 mm typical);
- provide a 1000 mm wide communal entrance door, with a 200 mm nib on the external latch side (in addition to the 300 mm nib required on the inside);
- have a recessed matwell where a communal entrance mat is provided;
- provide additional illumination for locks and access control points;
- position door entry systems (where provided) at a height of 1000 – 1200 mm from the finished ground surface, and 200 mm from the latch side of the door frame.



Communal Areas (Lifetime Home Standard 5):

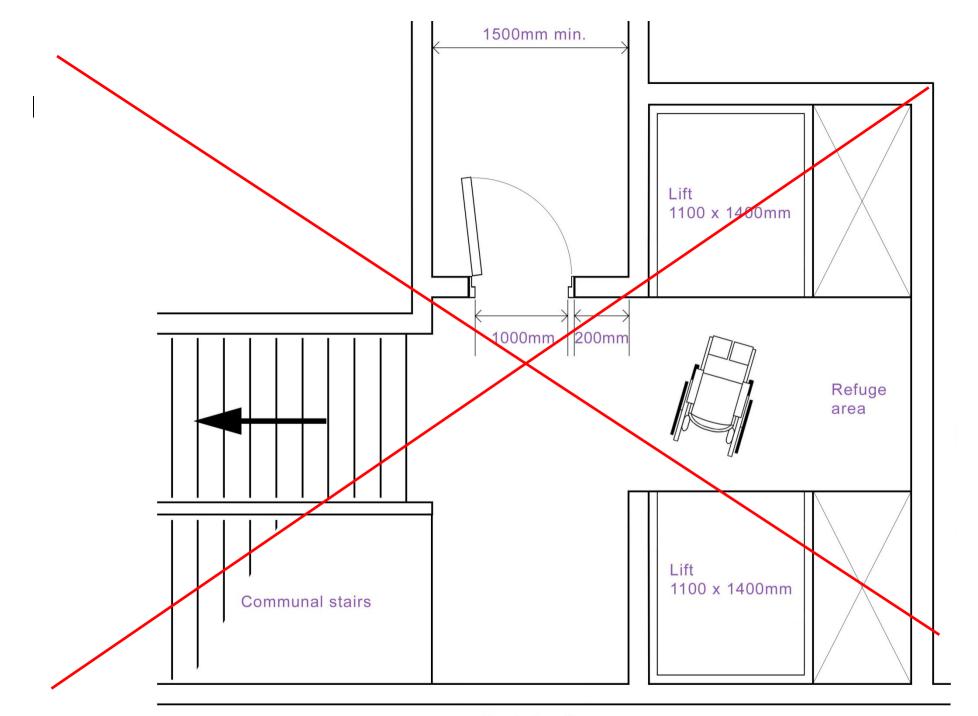
Lifetime Homes should have:

communal stairs designed in accordance with Part M.

The London Borough of Hillingdon seeks to implement the following best practice. In addition to the above requirements, communal areas should:

- provide 1000 mm wide hallway doors;
- have a 200 mm nib on the push side of all internal communal doors;
- have entrance doors, lifts and stairs on or visible from the front elevation;
- feature corridor widths of at least 1500 mm;
- be accessible by passenger lift (1100 x 1400 mm and fitted in accordance with Part M to the Building Regulations) in blocks of flats comprising two storeys or more;
- be served by two Part M compliant passenger lifts in blocks containing more than 15 flats;
- incorporate facilities that enable wheelchair users to evacuate independently. Facilities should typically include refuge areas with communication points and at least one lift that can be used during a fire.

In blocks containing five flats or less, the Local Planning Authority will invoke its discretion not to require a Part M compliant lift. To enable future wheelchair access to a Lifetime Home on an upper storey in such situations, the design of communal areas should allow for an enclosed platform lift to be installed at a later date.



Front elevation

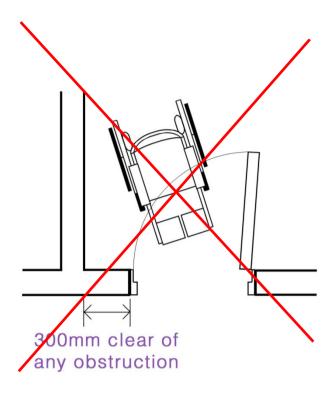
# Hallway and Doorway Widths (Lifetime Homes Standard 6)

# The width of the doors, halls and landings should comply with the table below:

Doorway Clear Width (Minimum)	Doorway Approach	Corridor Width (Minimum)
<del>750 mm</del>	Head-on	<del>900 mm</del>
750 mm	Not Head-on	<del>1200 mm</del>
775 mm	Not Head-on	<del>1050 mm</del>
<del>900 mm</del>	Not Head-on	<del>900 mm</del>

#### In addition, homes should ensure that:

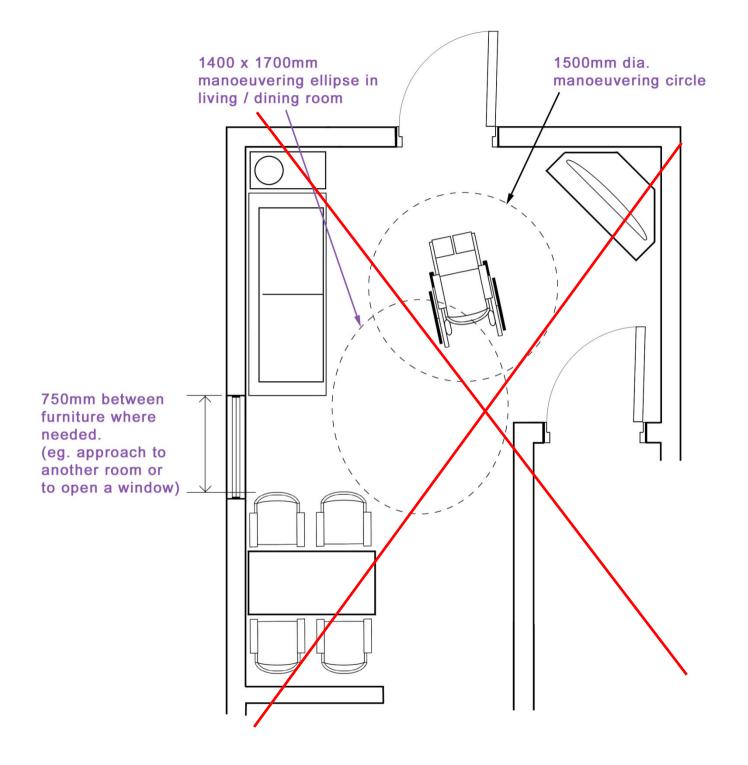
- external and internal doors require an opening force no more than 30 Newtons from 0° (the door in the closed position) to 30° open, and not more than 22.5 Newtons from 30° to 60° open;
- internal doors at entrance level provide a 300 mm nib to the leading edge on the pull side.



# Circulation Space (Lifetime Home Standard 7)

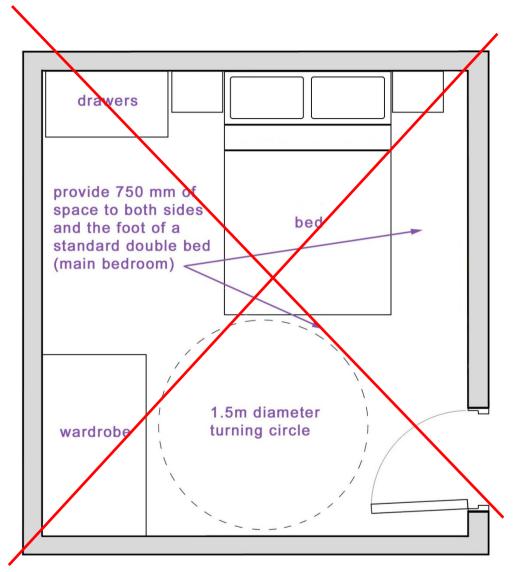
#### **A Living Room should feature:**

- a 1500 mm diameter wheelchair turning circle (or 1400 mm by 1700 mm ellipse) in living and dining rooms with typical furniture items in place;
- 750 mm between furniture items where needed (e.g. to approach another room or reach to open a window).



#### Bedrooms should:

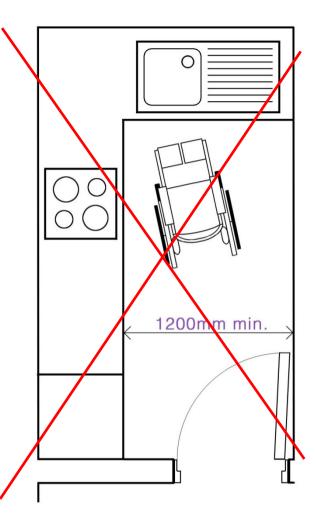
- provide 750 mm of space to both sides and the foot of a standard double bed (main bedroom);
- be capable of having 750 mm space to one side of the bed (other bedrooms);
- provide 750 mm between typical furniture items to allow ease of access to windows and doors leading to adjoining rooms.



#### Kitchens should:

- be located on the entrance level;
- have a clear width of 1200mm between kitchen units and/or appliance fronts, and wall or units opposite;
- be planned so a continuous run of units (e.g. work surfaces, cupboards, oven and sink drainer) is provided uninterrupted by doorways. The continuous run could be straight, L shaped or U shaped;
- have windows that are easily accessible (i.e. not impeded by ovens and hob\_units)

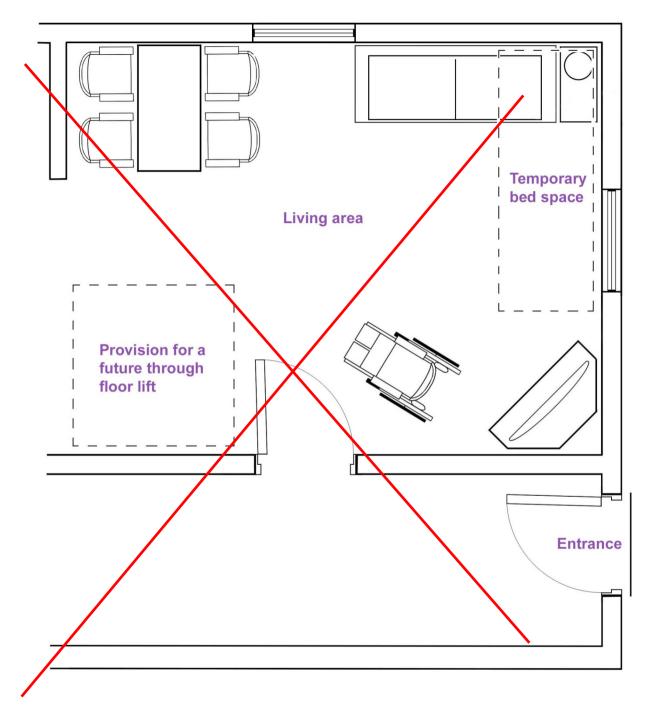
NB: The home should be designed to allow white goods to be positioned elsewhere if necessary. Kitchen units should ideally allow for a 1500 mm wide turning circle (or 1400 mm x 1700 mm ellipse) beneath worktops no less than 900 mm high.



# Entrance Level Living Areas (Lifetime Home Standard 8)

A living room/living space should be provided on the entrance level of every dwelling. (A living room or living space is categorised as: any permanent living area, dining room, dining area or any other reception area that provides seating and socialising space for the household and visitors.)

NB: in dwellings containing two stories or more, the living space may also need to provide other entrance level requirements (e.g. temporary bed space and through floor lift space) as required by Lifetime Home Standards 9 and 12.

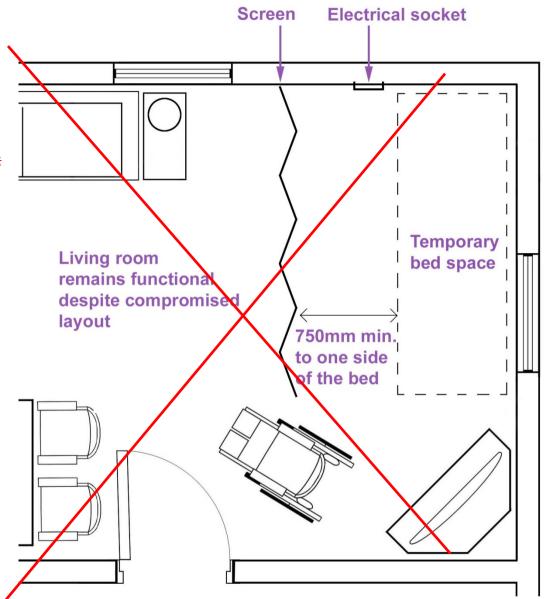


# Potential Bed Space on entrance level (Lifetime Home Standard 9)

Where no permanent bedroom is provided at entrance level, space, convenient for a temporary bed, should be provided (e.g. within a living room). The space should allow for a single bed with 750mm of space to one side, and should:

- be located in the corner of a living room and should allow the room to remain functional;
- allow the bed to be screened from the rest of the room;
- provide an electrical socket within the same area.

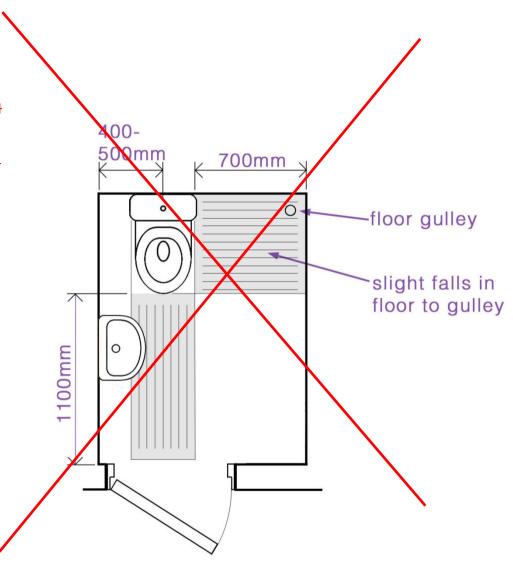
NB: The living room should remain functional with the temporary bed in situ, despite a compromised layout.



Entrance Level WC and Shower Provision (Lifetime Home Standard 10)

All new homes should provide a WC capable of accommodating a shower. The room should:

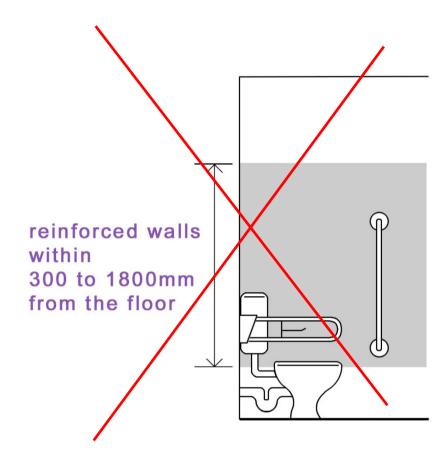
- feature a toilet pan with 700 mm to one side and 1100 mm to any obstruction opposite, with a centre line 400 500 mm from an adjacent wall;
- provide a hand basin that can be reached whilst seated on the toilet pan;
- ensure the toilet pan has a cistern flush control on the side closest to the 700 mm transfer area;
- incorporate floor gully drainage for future shower installation. The drain should be located as far as possible from the door, and crossfalls should be minimised.



WC and Bathroom Wall Reinforcements (Lifetime Home Standard 11)

The entrance level WC and 1st floor bathroom should:

• ensure that walls are sufficiently reinforced, within 300 mm and 1800 mm from the floor, to allow secure fitment of adaptations that are subjected to significant load, e.g. grab handles (Lifetime Home Standard 11).



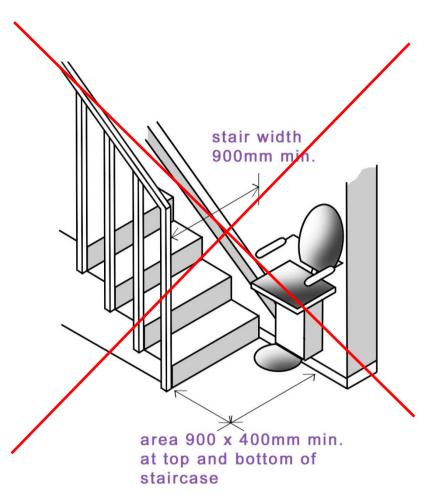
Potential Installation of a Stairlift (Lifetime Home Standard 12a)

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A lifetime Home with more than one storey should:

- allow a chairlift to be installed without the need to alter or reinforce walls;
- feature stairs with a minimum 900 mm width, clear of rails and balustrade;
- provide an area 900 mm x 400 mm at the top and bottom of a staircase.

NB: Where a new staircase is proposed in conversions (e.g. a house into flats), a flight designed in accordance with Part M to the Building Regulations will be required.



Future 'Through Floor' Lift within the Home (Lifetime Homes Standard 12b)

Unless the home will provide on the ground floor a living, kitchen and dining area, a bathroom (designed to meet Lifetime Home Standard 14) and at least one bedroom, plans should

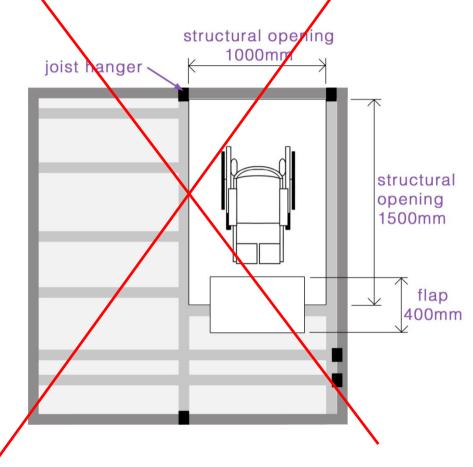
include;

• a viable position for a future 'through-floor' wheelchair lift that is identified, technically specified, and shown on plan;

• a 1500 mm x 1000 mm opening, positioned to enable firm mounting of a lift car and vertical travel rails to a solid wall. The opening should be orientated to allow wheelchair access into the lift via one of the shorter sides).

The Local Planning Authority will require technical specifications at the planning stage which demonstrate how the lift opening will be formed. Concrete floors should provide a pre-cast aperture. Traditional wooden joist, I-beam and metal web floors need not provide a knock out panel, provided the design takes account of the point loads to allow an opening at some future stage.

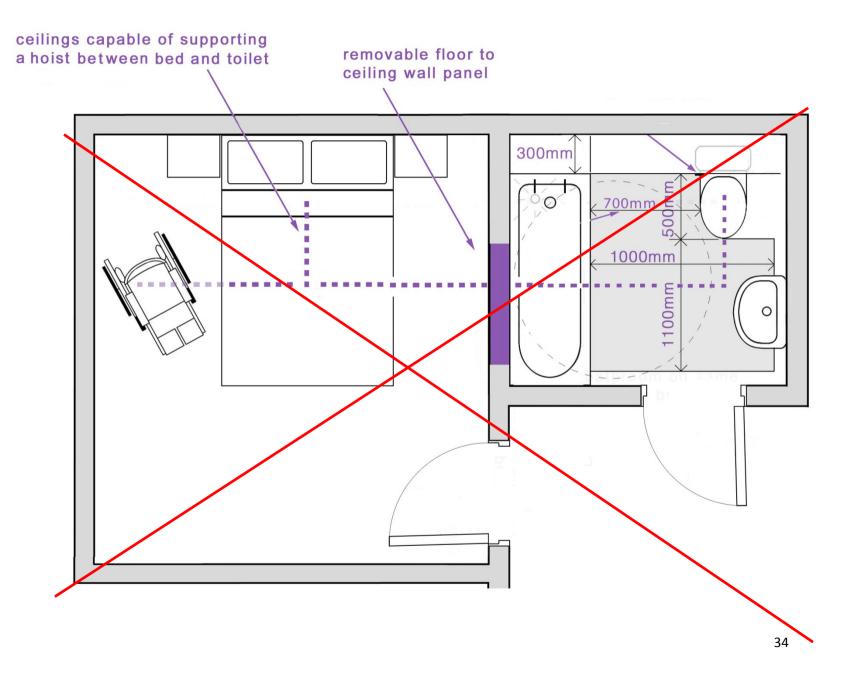
Potential ceiling track hoist between bedroom and bathroom (Lifetime Home Standard 13)



The design should provide a reasonable route for a ceiling-track hoist between a main bedroom and bathroom. A bedroom en suite to a bathroom, or accessible via a removable floor to ceiling wall panel, will be expected in **larger Lifetime** Homes. The design should ensure:

bathroom is on the same level as a main bedroom (i.e. a twin or double room);

ceilings



are capable of supporting a single point hoist above the bed, bathtub and toilet pan;

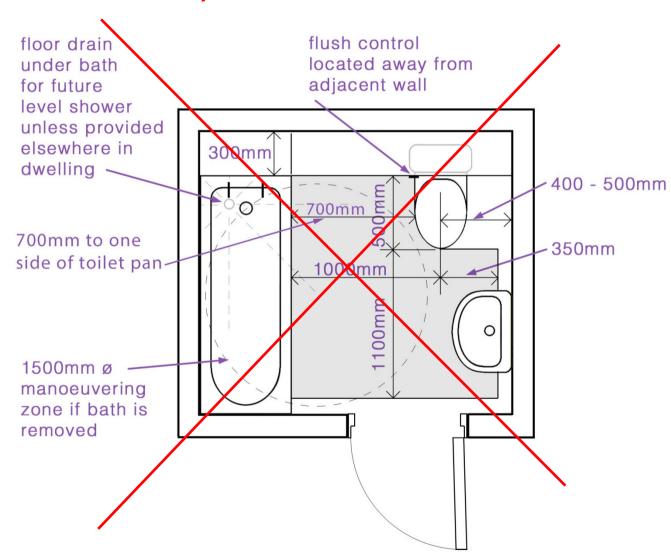
• that a bathroom and bedroom with hoist provision could be accessible via a 'through-floor' lift, with the bathroom designed in accordance with Lifetime Home Standards 14.

NB: the potential ceiling track hoist route should not pass through a living room or any common area used by a household.

#### Bathrooms (Lifetime Home Standard 14)

All dwellings should provide an accessible bathroom on the same storey as a main bedroom which should ensure that:

- the bathroom is on the entrance level, or, on a storey that is potentially accessible via a through-floor lift;
- the centre line of the toilet pan is positioned between 400-500 mm from an adjacent wall;
- a minimum of 700 mm is provided to one side of the toilet pan, with 1100 mm achieved between the front rim and any obstruction opposite;
- the handbasin is reachable from the toilet pan (the basin should not encroach on the transfer area by more than 200 mm);
- space of at least 1100 mm long and 700 mm wide is provided alongside any bathtub (this zone can overlap the space required next to the toilet pan);
- where a level access shower is substituted for a bathtub, the bathroom should incorporate a 1500 mm turning circle or a 1700 x 1400 ellipse;

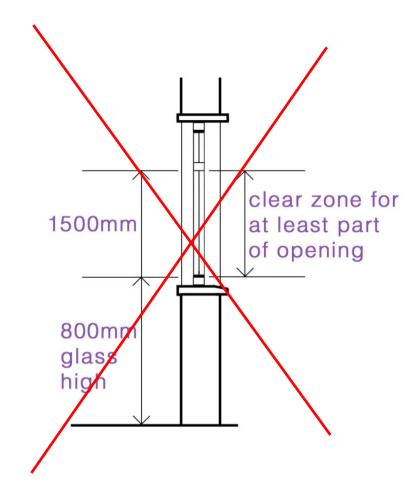


• floor gully drainage (or a capped-off floor trap) is installed at the build stage.

## Glazing and window handle heights (Lifetime Home Standard 15)

Glazing should be designed to provide a reasonable line of sight from a seated position in the living room or area. In addition, at least one window should be easily openable for ventilation within every room. The design and position of windows should ensure:

- living room window glazing begins at a maximum height of 800 mm from the finished floor level (Lifetime Home Standard 15);
- a route of at least 750 mm to allow a wheelchair user to approach and gain convenient access to open a window;
- ensure transoms are at a height that does not obscure vision from a seated position. Transoms should not extend beyond 1700 mm above the floor level and should be at least 400 mm in height away from any other transom or balcony balustrade;
- feature window handles and locks that are easy to open using one hand and no higher than 1200 mm from the finished floor.

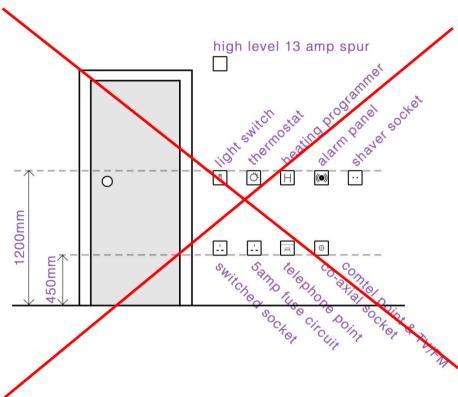


## Switches, Sockets and Service Controls (Lifetime Home Standard 16)

Regularly used service controls, or those needed in an emergency, should be accessible to all household members, including those with limited reach or restricted movement.

#### Provisions should include:

- switched, sockets, ventilation & service controls are sited between 450 mm & 1200 mm from the finished floor level;
- electrical sockets are switched at outer end;
- a high-level fused spur provided above all doors leading outside, to enable future installation of electric door openers;
- radiator temperature control valves at a height suitable for wheelchair users;
- mains water stop-taps accessible to people with restricted mobility.



## Accessible and Adaptable Dwellings M4(2)

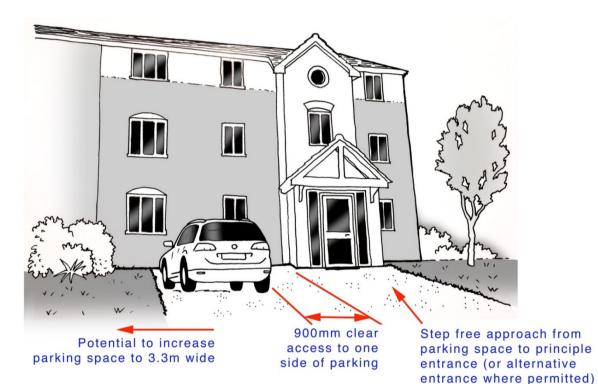
To ensure that residential accommodation offers standards of accessibility that can be relied upon, and to ensure that homes are adaptable without the need for post-construction alterations, the Council requires that all new homes are designed to the standards set out in Approved Document M to the Building Regulations M4(2).

## Accessible Parking

The principle is to provide parking (or enable simple and cost-effective adaptation) that facilitates easy access in and out of a vehicle for older and disabled people and those with children.

- Where provided for the dwelling, a drop off point should be no less than 1000 mm wide, feature a gradient not exceeding 1:12, and be flush with the adjoining ground.
- For blocks of flats or other communal
   parking, a minimum of one standard parking
   space is provided close to the communal
   entrance of each core of the block (or close
   to the lift where parking is internal)

NB: The Council will require a Parking
Management Plan for developments comprising ten
units or more.



Shallowest gradient the site permits to principle entrance

Firm, even and slip resistant ground surface suitable for wheelchair use

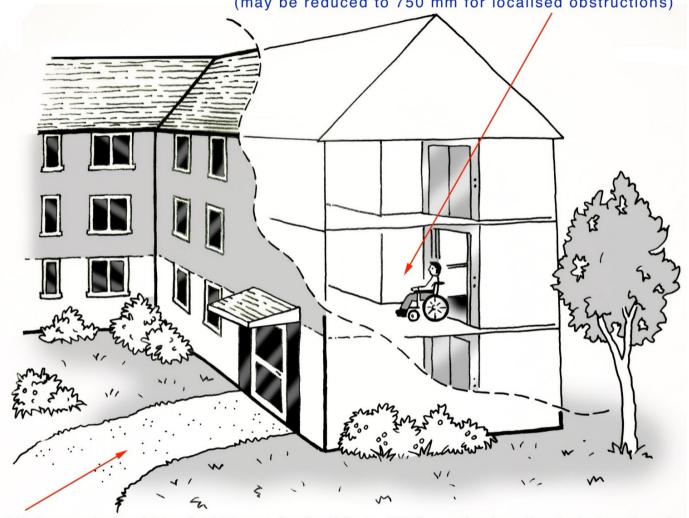
Step-free approach to the principle private entrance (or to a suitable alternative private entrance)

900 mm clear width approach route to a principle private entrance (may be reduced to 750 mm for localised obstructions)

## Approach to the Dwelling

The approach route to a home should be safe and convenient and feature the shallowest grade possible to achieve a step free route, irrespective of the storey on which the dwelling is located.

**NB:** The same design principles should apply from any visitor parking.

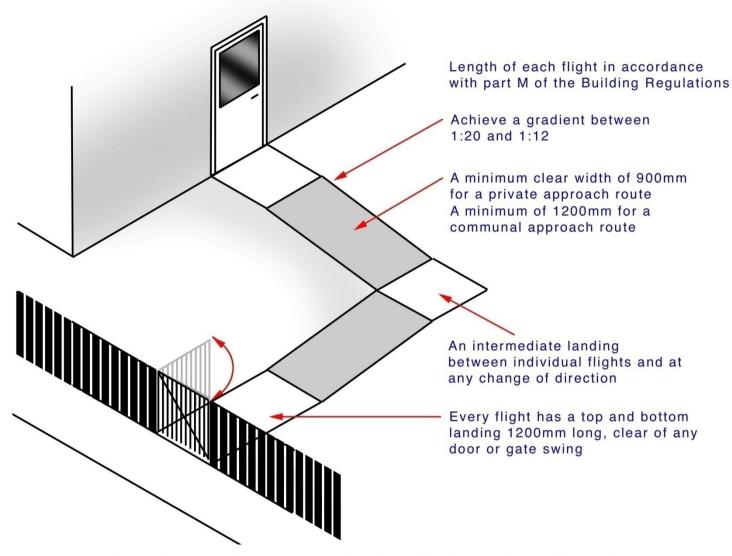


Minimum clear width of 1200 mm (reducible to 1050 mm for localised obstructions) to a principle communal entrance

## **Ramps**

Avoid the use of ramps to achieve a step-free route.

However, where unavoidable, ramps should comply with these specifications:



**NB:** Localised obstructions should not occur opposite or close to a doorway, or at a junction point that requires a change in direction. A localised obstruction should not continue more than 2 metres in length.

#### <u>Steps</u>

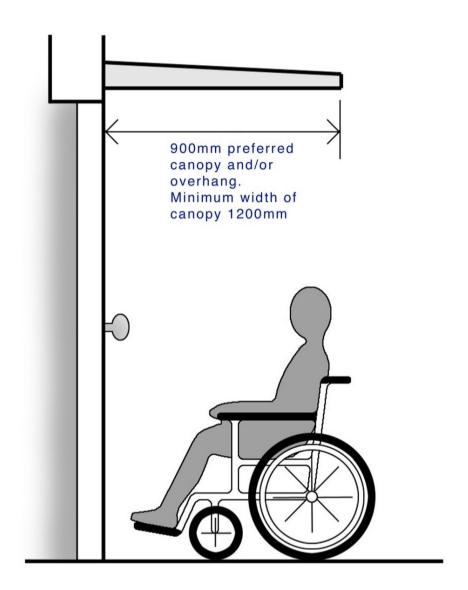
External steps where unavoidable should:

- be provided in addition to a ramped approach where the route rises 300 mm or more (refer to Approved Document M to the Building Regulations for detailed specifications)
- have a uniform rise of between 150 mm and 170 mm, with a going of between 280 mm and 425 mm. (For tapered steps, measure at a point 270 mm from the 'inside' (narrow end) of the step.)
- ensure every flight of stairs achieves a minimum clear width of 900 mm, rises no more than 1800 mm, and features a top and bottom landing not less than 900 mm long.
- feature a suitable handrail on one side, or on both sides where the flight is wider than 1000 mm, and where three or more steps are necessary.

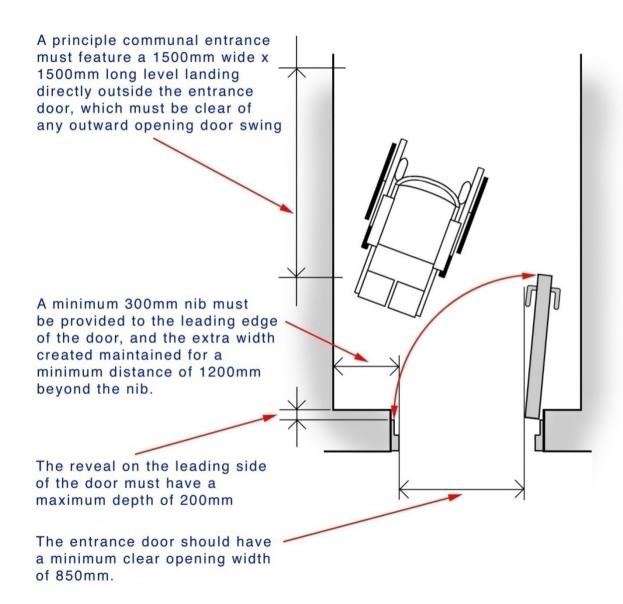
#### **Communal Entrances**

<u>Every communal door or gate along the approach route</u> should:

- be lit at night on the external side using diffused luminaries activated automatically by dusk to dawn sensors and/or motion detectors;
- ensure door entry systems and controls, where provided, are mounted 900 mm to 1000 mm above the finished ground level, and, at least 300 mm away from any projecting corner;
- have a minimum clear opening width of 850 mm (refer to approved Doc M to the Building Regulations). For double doors, a minimum of one door leaf to achieve a clear opening width of 850 mm;
- <u>feature an accessible threshold/water bar not exceeding 15 mm in height;</u>
- <u>ensure a minimum of 1500 mm between lobby door</u> swings;
- provide ground and floor surfaces that allow the freewheeling movement of wheelchair users.



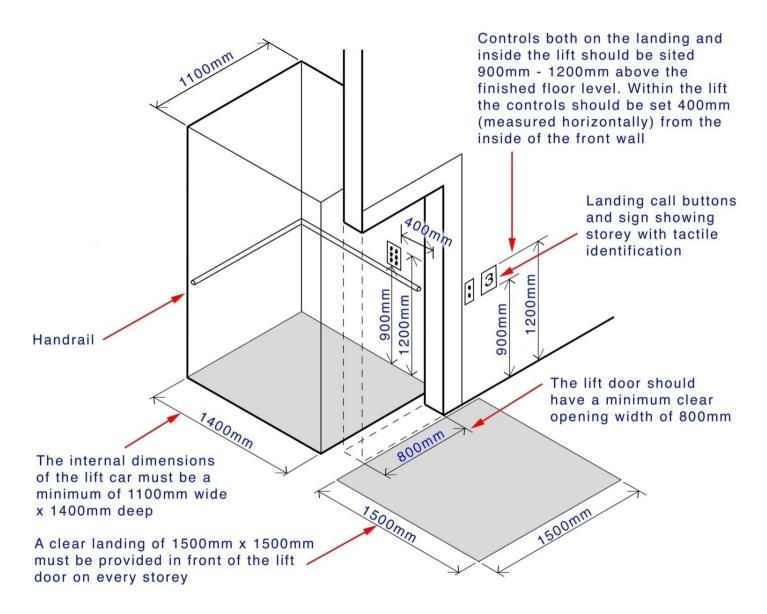
## <u>Communal Entrances</u> <u>(continued)</u>



## **Communal Lifts**

Everyone, including accompanied wheelchair users, should be able to access and use the lift. Every passenger lift that gives access to a dwelling should be designed to meet the requirements of BS EN 81-70:2003, or equivalent, for a type 2 lift:

NB: The lift doors once fully opened should have a dwell time of 5 seconds before they begin to close.



#### **Stairs**

Stairs that give access to a dwelling should meet the requirements of Approved Document K to the Building Regulations.

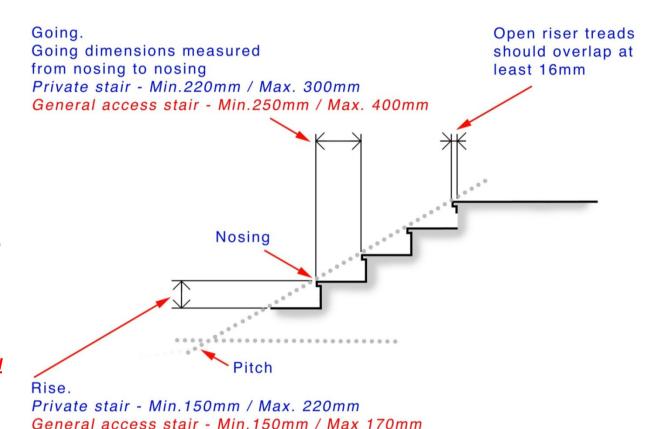
## Stairs within a dwelling

Open risers are permissible provided:

- treads overlap by no less 16 mm;
- <u>they are constructed such that a 100 mm</u> <u>diameter sphere cannot pass through the</u> <u>open risers.</u>

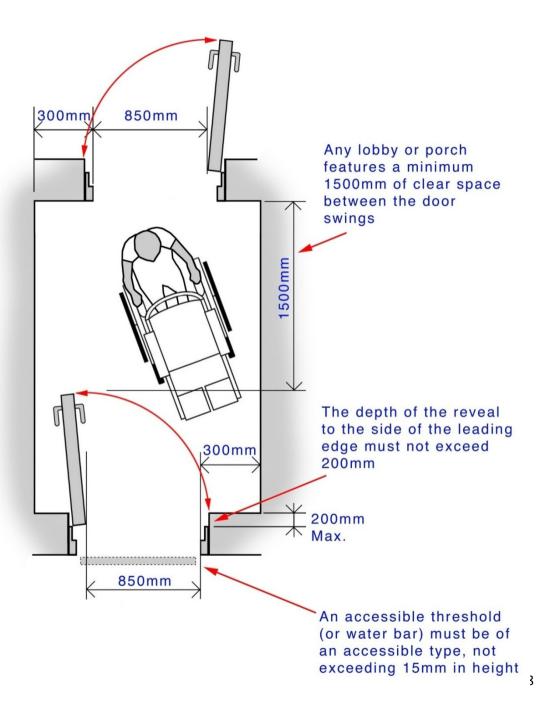
# <u>Stairs for common areas (e.g. within a flatted development) should:</u>

- NOT have open risers;
- <u>have tread nosings that contrast visually</u>
   <u>with the tread and riser, 50 to 65 mm on the tread, and,</u>
   30 to 55 mm on the riser;
- <u>have a tread nosing profile as prescribed in Approved</u>
   <u>Document K to the Building Regulations.</u>

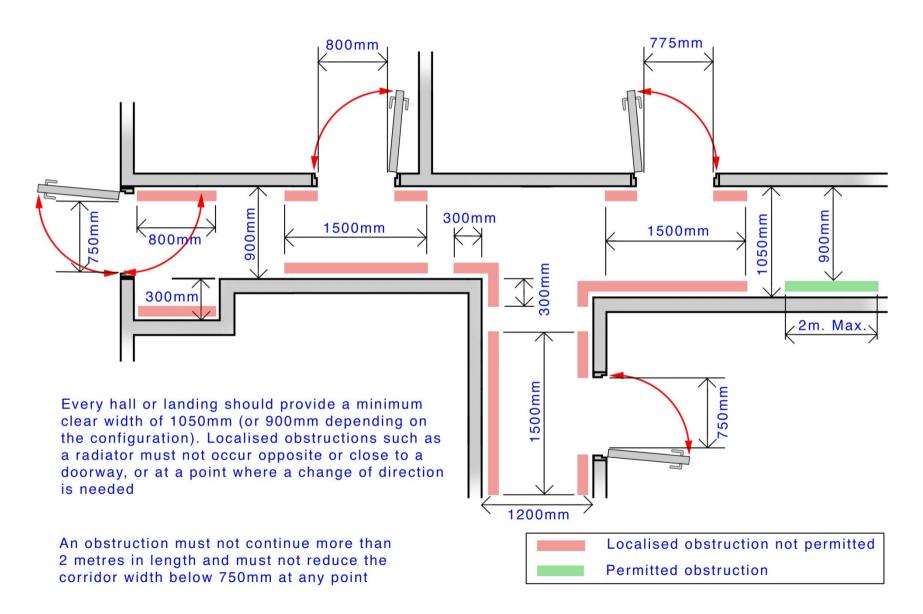


## **Private Entrances**

All entrances to a private dwelling, including to and from a private garden, balcony, terrace, garage, carport, conservatory, or storage area that is integral or connected to the dwelling, should meet these minimum specifications:

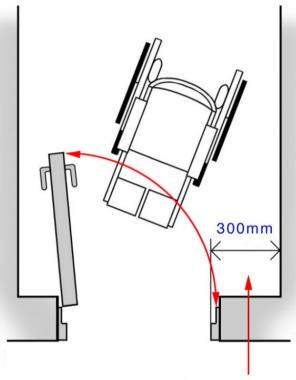


## **Internal Circulation Areas and Doorways**



# **Door width and leading-edge**

<u>Doorway clear</u> <u>opening width (mm)</u>	<u>Corridor clear</u> passageway width (mm)	
750 or wider	900 (when approached head on)	
<u>750</u>	1200 (when approach is not head on)	
<u>775</u>	1050 (when approach is not head on)	
<u>800</u>	900 (when approach is not head on)	

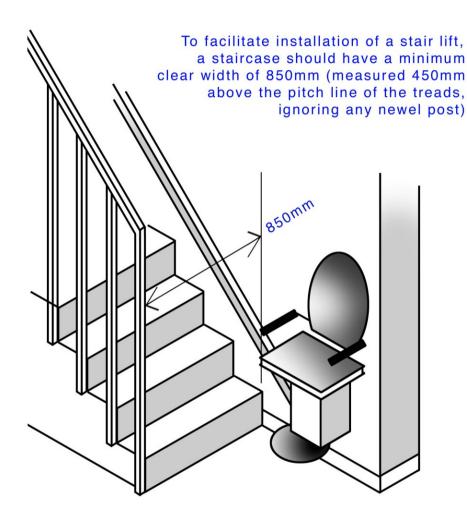


A 300mm nib must be provided to the leading edge of every door on the ground floor

## Private Stairs and Level Changes Within a Home

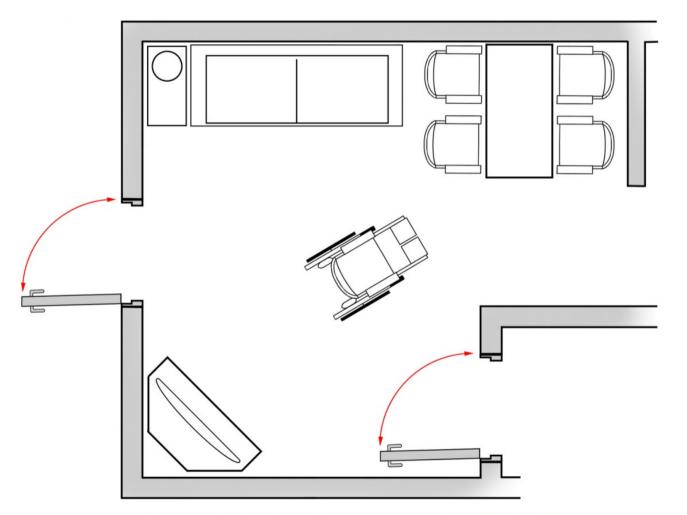
Step free access is to be achieved to all rooms and facilities on the entrance storey. Level changes should be avoided on all other floors.

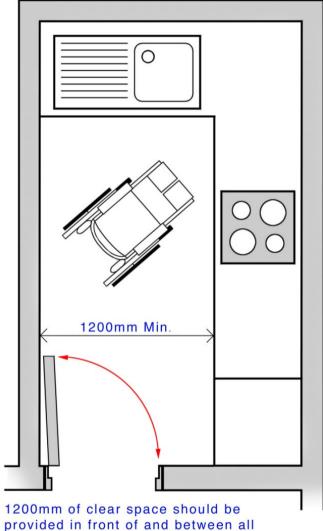
To continue the provision of possible step free access from the entrance level to a storey above or below (where a main bedroom and bathroom is located), private stairs should be designed to accommodate future stair-lift installation.



## Living, Kitchen and Eating Areas

All new homes should provide accessible, convenient and comfortable living spaces.

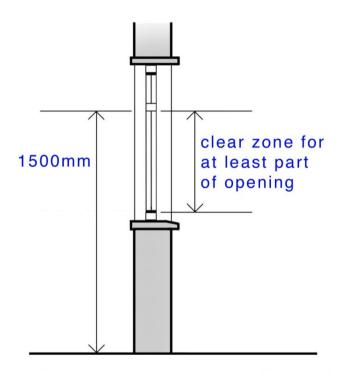




provided in front of and between all kitchen units and appliances

Within the entrance storey there must be a living area which may be a living room, kitchen/diner, or a combination

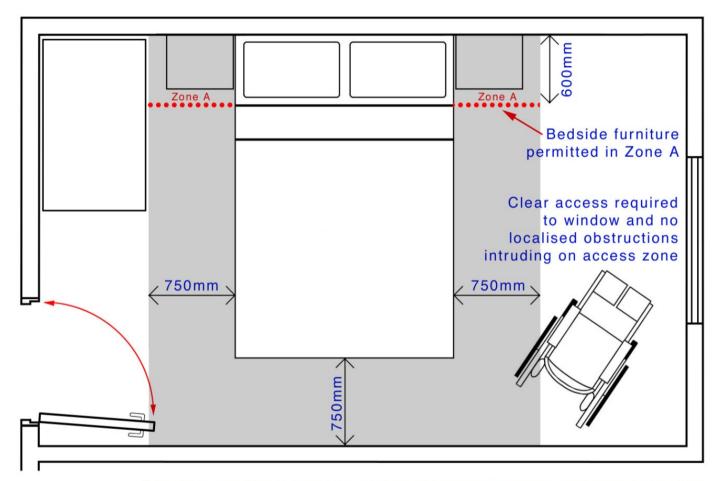
## **Living Area Glazing**



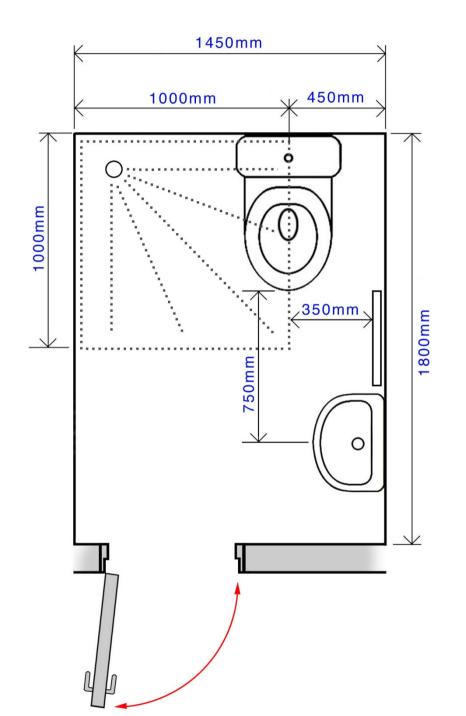
Glazing should start at a maximum of 850mm above finished floor level (or at a minimum height necessary to satisfy Part K requirements for guarding to windows)

#### **Bedrooms:**

To facilitate accessibility into bedrooms for a wide range of people, including wheelchair users, the design of at least one principal bedroom should meet these minimum specifications:



All other double and single bedrooms must provide a clear access zone of 750mm wide on at least one side and at the foot of the bed



#### **Entrance Level WC/Cloakrooms**

Step free access must be achieved between a living area, and a WC/cloakroom. Located on the entrance storey and suitable for use by some wheelchair users, the facility may be a WC/cloakroom or a bathroom.

<u>To ensure compliance, all 2/3 storey dwellings with 1 or 2 bedrooms must:</u>

- be on the entrance storey;
- feature an outward opening door;
- provide a toilet pan, handbasin;
- <u>ensure that the handbasin does not impede the ability</u> of a wheelchair user to access the WC

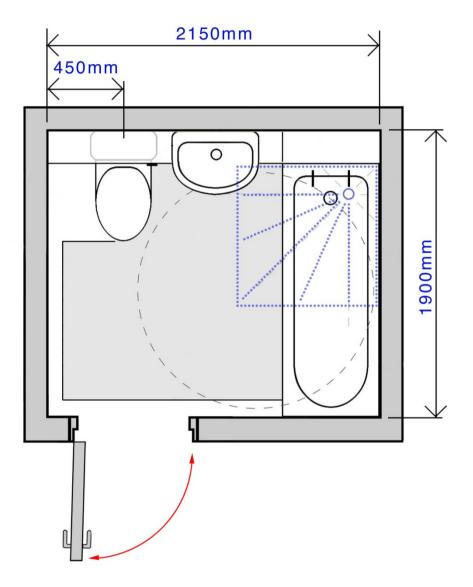
2 or 3 storey dwellings with 3 bedrooms or more must:

 ensure that the entrance level WC/cloakroom or bathroom provides an installed level access shower (or is readily equipped for level access shower installation).

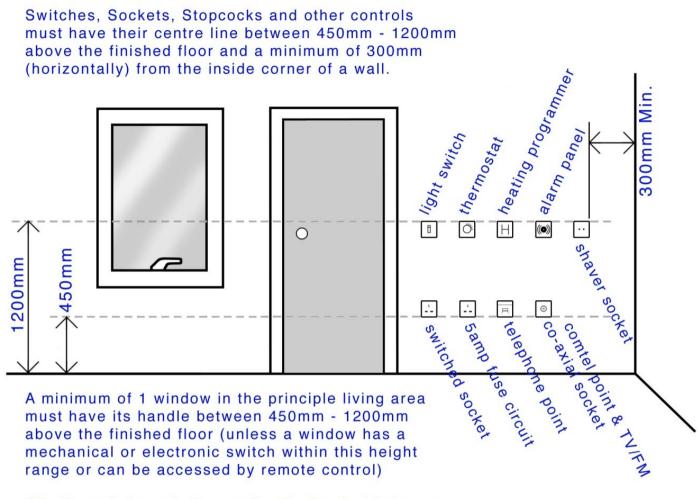
## **Bathrooms**

<u>Convenient access to a suitable bathroom must be</u> <u>achieved within all dwellings. Every new dwelling is to</u> <u>incorporate a bathroom that:</u>

- <u>is located on the same floor as the principle double</u> bedroom;
- contains a toilet pan, a handbasin and a bathtub;
- achieves the requisite clear access zones
   (wheelchair user transfer and manoeuvring space)
   between bathroom furniture items.



#### **Services and Controls**



All other windows to have a handle located between 450mm - 1400mm above the finished floor level

NB: The consumer unit (fuse board) should be mounted 1350 mm to 1450 mm above the furnished floor level

#### Wheelchair Home Standards

A wheelchair accessible home exceeds Lifetime Home Standards. A home designed for wheelchair users need not be oversized, but its design should permit unhindered mobility, including appropriate through-floor lift access in dwellings on more than one level. Wheelchair Home Standard dwellings are required for sale on the open market, as well as through affordable housing schemes.

To promote social inclusion and avoid the possibility of creating disability ghettos or targeted hate crime, Wheelchair Home Standard dwellings should be evenly distributed (including within blocks of flats) throughout a development.

The specifications which follow include many of those detailed in the Greater London Authority's (GLA) Best Practice Guidance 'Wheelchair Accessible Housing' (September 2007), and supports the principles set out in the GLA 'Housing', Supplementary Planning Guidance, November 2012.



In addition, many specifications stated are from the 'Wheelchair Housing Design Guide', Second Edition (2006), including reproduction of technical drawings (with the kind permission of BRE Press).

## **Key Features of a Wheelchair Standard Home**

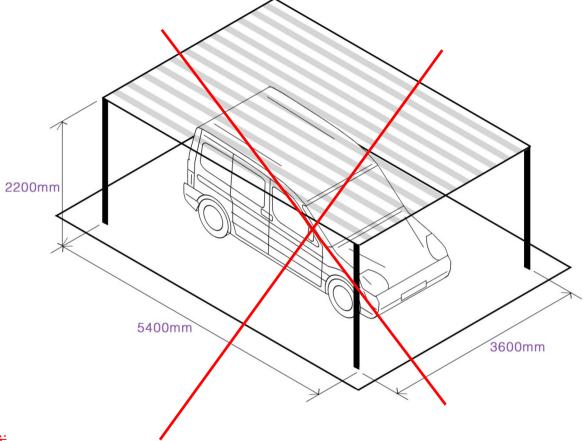
- 1. Sited close to public transport links and other community facilities.
- 2. Hard surfaced external paths, which are non-slip, easy to maintain, hard wearing, well-lit, adequately drained and with minimum crossfalls.
- 3. A covered car parking space and hard standing to allow a comfortable and safe transfer between car and wheelchair, positioned to allow natural surveillance.
- 4. Storage or parking space for an outdoor mobility scooter or second wheelchair.
- 5. Level access into the home, with carefully designed damp proof specification to prevent ingress of moisture and rainwater.
- 6. Ease of access and approach to the home; direct external access or communal entrances to have a weather protection canopy.
- 7. Adequately sized lobbies, transfer and turning spaces.
- 8. Internal movement that allows for easy wheelchair manoeuvrability within circulation areas and passageways, including access to storage and utility cupboards.
- 9. A lift for wheelchair access to upper floors.
- 10. Wheelchair friendly design in living areas.
- 11. Adequate manoeuvring space in kitchen areas and a design that allows for different unit configurations.
- 12. A bathroom with level access shower provided ensuite to a main bedroom.
- 13. Provision of a second WC with a basin in dwellings for four or more persons.
- 14. A bedroom design that allows for different room layouts and wheelchair access to both sides of the bed.
- 15. Wide internal doors, with a 550 mm leading-edge and which open greater than 90 degrees.
- 16. Window locks and handles, service controls and plug sockets suitably positioned.
- 17. Accessible outdoor spaces, gardens, balconies and refuse recycling areas.
- 18. 13-amp spurs provided for future adaptations; window and door openers, through-floor-lifts, showers and entryphone.



# **Parking**

In addition to Lifetime Home requirements, a parking space should be provided for every wheelchair standard home, including within car free developments. A parking space should:

- be located and designed to allow natural surveillance to minimise risk of crime:
- be on a level hard standing with a minimum drainage fall to allow safe transfer between car and wheelchair;
- be provided with good lighting, preferably controlled by passive infrared detectors, to facilitate wheelchair transfer at night;
- provide a 2400 x 4800 mm parking space with an adiacent 1200 mm side transfer area. The space should allow a vehicle to be parked forward facing or reversed
- in to allow for different transfer methods by wheelchair users;



• be allocated to a wheelchair standard home (including within car-free flatted developments);

- allow a wheelchair user to remain dry whilst transferring in and out of a vehicle; i.e. be under cover with a carport shield that seamlessly abuts the dwelling and which incorporates a well designed front door entrance canopy;
- ensure headroom of at least 2200 mm, including within basement or undercroft car parks;
- feature access control to any car park gates and barriers that can be operated without a disabled motorist needing to leave their vehicle;
- where parking is provided in open locations, feature a protection wall or fence adjacent to a Wheelchair Home Standard bay;
- be within 40 m of the home, where it is not feasible to provide parking within the curtilage, e.g. for some flatted developments;
- in car free developments, include as part of the Access Statement, a parking provision assessment for Wheelchair Home Standard units for approval by the Council's Transport Team.

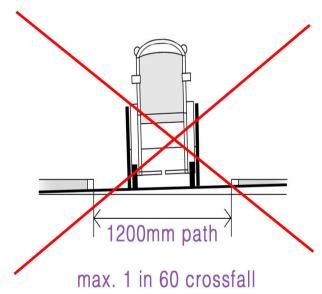
## **Approach to the Home**

In addition to Lifetime Home requirements, the approach to a wheelchair standard home must provide:

\* a level approach to the home that is slip resistant. Where topographical constraints prevent level access, a gentle gradient (max 1:21) that blends in with the surrounding landscaping and which aesthetically compliments the development must be introduced to all

entrances, including wheelchair access to external facilities such as storage, parking, garden and washing areas. Ramps must be avoided:

- hard surfaced external paths which are non-slip, easy to maintain, hard wearing and adequately drained;
- pathways that are well lit, and feature a 1200 mm minimum width, a maximum 1:60 crossfall, in addition to side protection (upstands) where natural landscaping levels are below paths and landings;
- easy access to an entry phone call point within the landing area;
- where featured, a pathway gate with a minimum clear opening width of 950 mm.

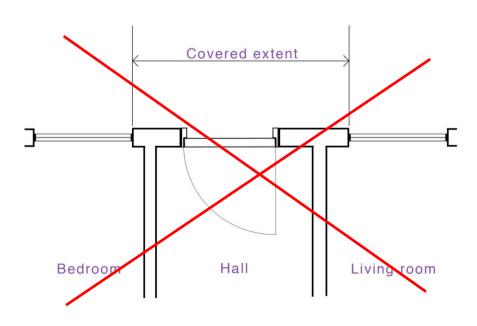


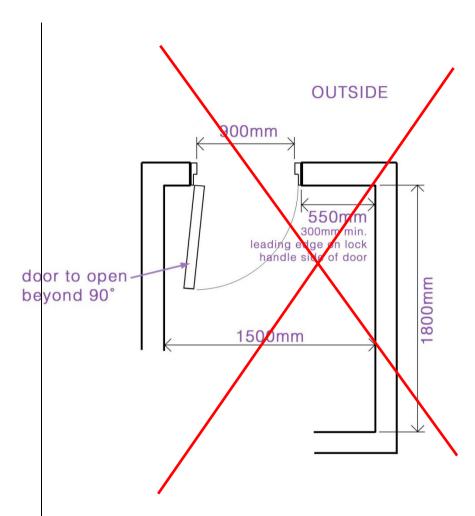
# **Entry into the Home**

Accessibility into a wheelchair standard home should be achieved by providing:

- \* a covered area no less than 900 x 1500 mm, extending beyond the width of the door and a to a maximum height of 2300 mm, to allow a wheelchair user to remain dry whilst negotiating a front door or communal entrance;
- an effective landing of at least 1500 x 1500 mm immediately outside the front door, with 1200 mm (minimum) of width clear of any outward door swing;





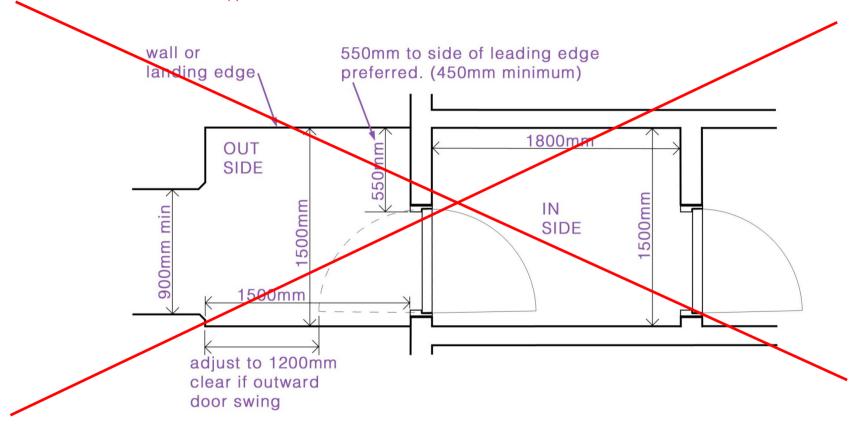


• a principal entrance door with a clear opening width of 900 mm;

- a well lit point of entry;
- an approach and entry that is spacious, safe and otherwise convenient to negotiate simultaneously by a wheelchair user and an assistant;
- at least one, and where a design necessitates, a second step free access route into blocks of flats located above ground floor level;
- an accessible threshold and damp proof specification that prevents the ingress of water and moisture;



• space to turn a wheelchair 180 degrees, a hallway area or internal lobby of 1500 mm wide x 1800 mm from the inside face of the front door to a wall or door opposite;



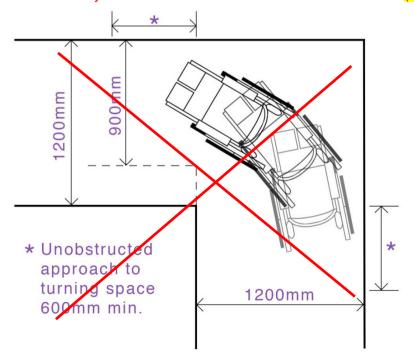
## **Door, Hallway and Landing Widths**

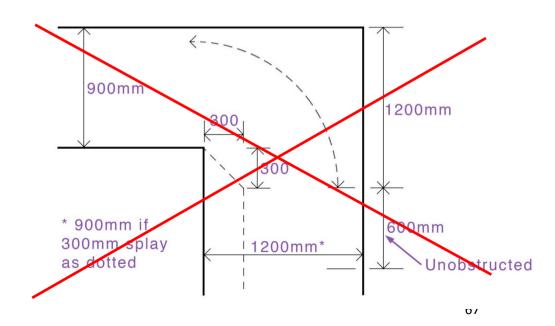
Over and above the requirements of a Lifetime Home, a wheelchair accessible dwelling must:

• feature 1200 mm wide passageways;

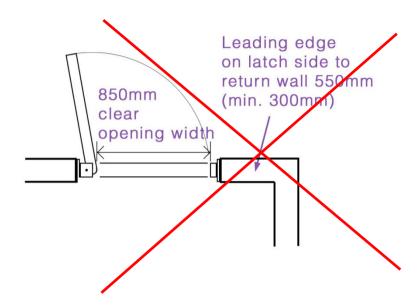
 where the only option is to reduce the passageway width, developments should adhere to the table opposite, and ensure doorway widths accord with Lifetime Home Standard 6 (also see page 25):

Hallway width (before turn)	Turn	Corridor Width (after turn)
<del>900 m</del>	Straight	<del>900 m</del>
<del>900 m</del>	<del>90° (no splay)</del>	1200 mm after a 90° turn
<del>900 mm</del>	90° (splay 300 x 300 mm)	900 mm wide with 300 mm splay





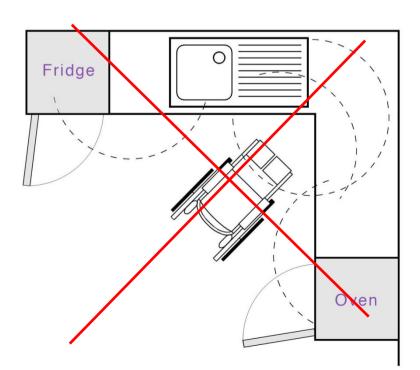
- feature internal doors with a minimum clear width of 850 mm, which open more than 90 degrees (to ensure door handles do not project into the opening);
- provide a storage and charging area of 1100 mm wide by 1700 mm long for a second wheelchair;
- ensure the design incorporates a through-floor lift from a hallway and landing (to provide wheelchair access to all rooms above ground floor).

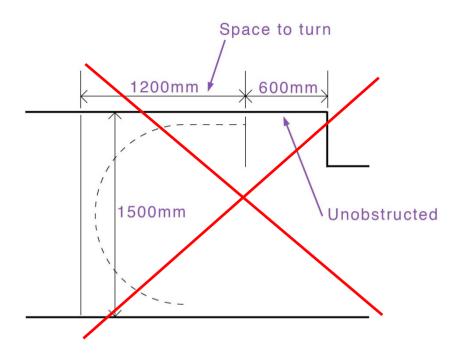


## **Internal Layout and Facilities within the Home**

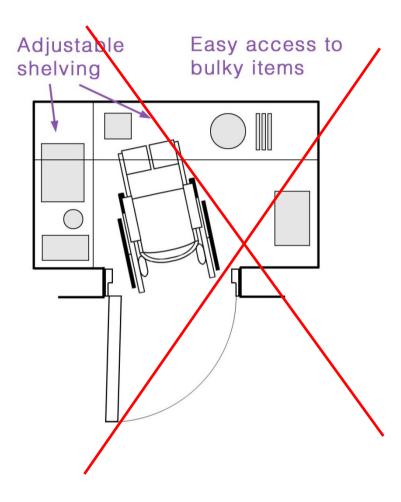
The internal design and layout of a home should:

- enable a wheelchair user to turn through 180 degrees in bedrooms and dining rooms with furniture in place, i.e. turning circle 1500 mm or ellipse 1400 mm x1700 mm;
- provide, in addition to turning circles, enough circulation space for a wheelchair user to manoeuvre around typical furniture items associated with a room;





 provide an appropriate kitchen layout to allow wheelchair users convenient and effective use. A minimum clear manoeuvring area of 1800 mm x 1500 mm should be provided. An L-shape or open plan kitchen is preferred. provide storage for consumables which may be used by a disabled person. The storage should allow for a wheelchair user to access the space independently and without the need to first remove bulky items e.g. a vacuum cleaner. (It is preferable to provide a separate storage cupboard for household equipment and supplies);



## **Vertical Travel**

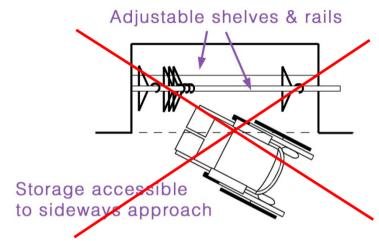
Integral to the design of a Wheelchair Home Standard dwelling on more than one storey, must be provision for a through-floor platform lift that travels between a hallway and an upstairs landing:

- Affordable Houses: lift to be fitted at build stage as required;
- Private Houses: to feature a concealed structural opening for a future lift installation;

#### **Bedrooms must:**

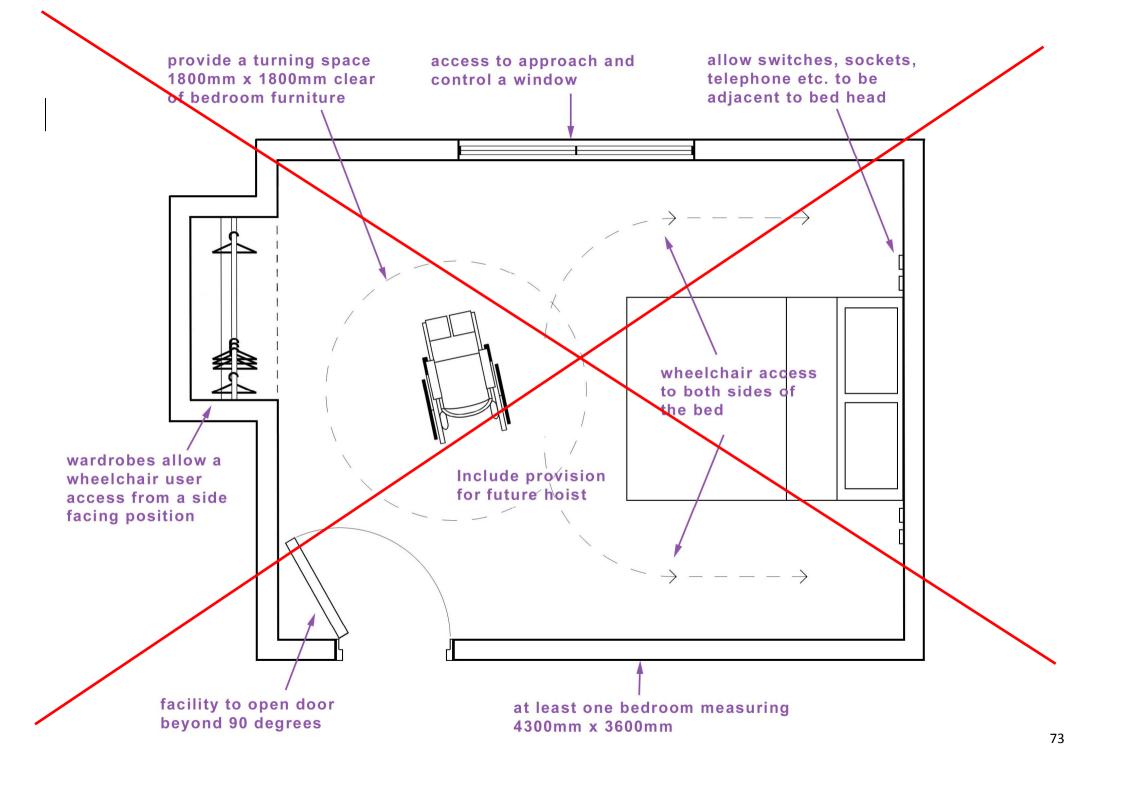
- allow wheelchair access to both sides of a double bed:
- ensure at least one bedroom provides minimum dimensions of 4300 mm x 3600 mm;
- provide turning space 1800 mm x 1800 mm clear of bedroom furniture;
- allow access to all electrical controls:
- allow a wheelchair user to approach and operate a window:
- allow the bedroom door to open beyond 90° with furniture in place;
- include provision for future hoist installation in main bedroom for maximum flexibility of occupation;

 allow switches, sockets for equipment, FM aerial, telephone and entry points to be adjacent to bed head, with a TV aerial and power socket positioned opposite.



 feature wardrobes (where fitted) designed and positioned to allow a wheelchair user to reach easily from a side facing position;

**NB:** It is desirable to have a view from the bed out of the window. A pull switch to operate the light is desirable for ease of reach from the bed.



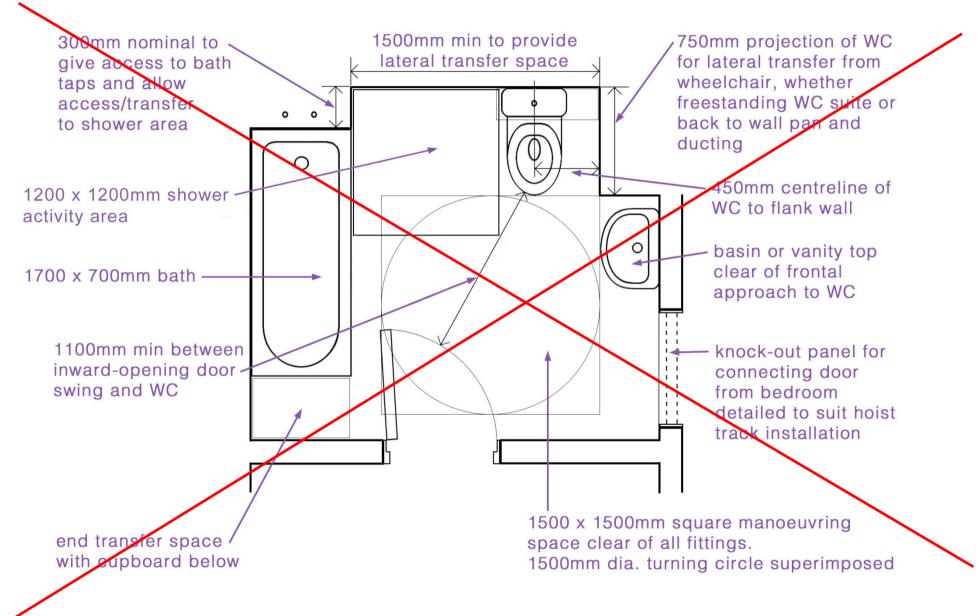
## **Bathrooms**

In addition to the specifications required for Lifetime Home bathrooms, Wheelchair Home Standards require:

- a minimum 2400 mm x 2200 mm ensuite bathroom facility to a main bedroom (it is acceptable to provide a removable floor to ceiling wall panel for a potential ensuite in Wheelchair Home Standard units consisting of only one bathroom);
- facilities to allow a wheelchair user to use independently all bathroom fixtures and fittings. Bathrooms should feature an 1800 mm x 1800 mm turning circle clear of fixtures and fittings;
- provide either a wheel-in 'wet room' shower facility or a height adjustable bathtub that is compatible with ceiling-track and freestanding hoists
- a minimum 500 mm from the flank wall to the centreline of the toilet pan;
- a 1200 x 1200 mm recessed wet room shower tray;
- a 1700 x 700 mm bathtub with an end transfer space;

• the basin to be clear of frontal approach to the toilet pan;

#### Wheelchair Home Standard Bathroom Layout

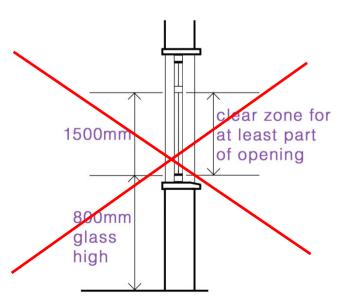


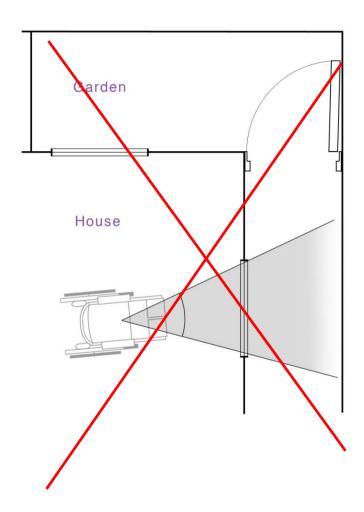
# **Windows and Fixtures & Fittings**

In addition to Lifetime Home requirements, Wheelchair Home Standard dwellings must feature:

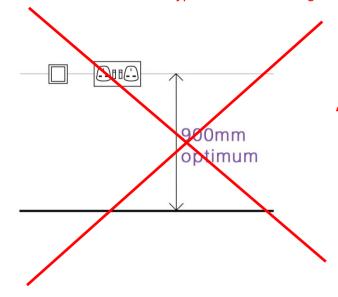
 glazing in dining and bedrooms should begin no higher than 800 mm above the floor level; avoid transoms (horizontal divisions) between 800 mm and 1500 mm;

 window positions that allow for outward natural surveillance on all exposed sides of the dwelling;

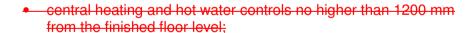


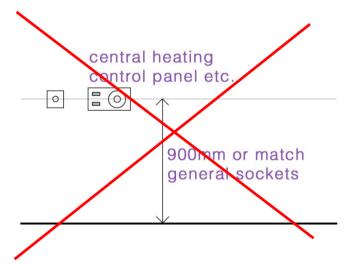


• internal doors with lever-type handles at a height of 800 mm to 1000 mm;

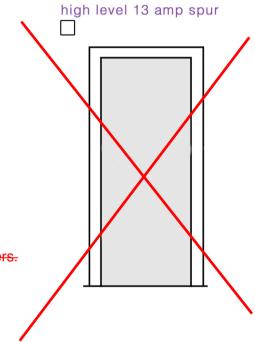


• plug points at height of 750 mm from the finished floor level;

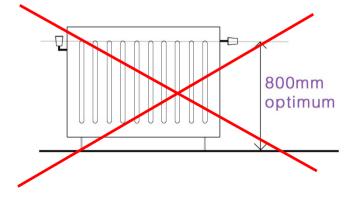




• easy to access and operate controls for mains water stopcock, gas and electricity consumer units. Isolating valves for sinks and washing machines should also be of a suitable design;



• a high level 13 amp spur adjacent to all windows and internal doors to allow future installation of electric openers.



• radiator controls set at between 700 mm and 900 mm from the finish floor;

# Wheelchair Accessible and Wheelchair Adaptable <u>Dwellings M4(3)</u>

A wheelchair adaptable dwelling is one which is designed and built for potential occupation by a wheelchair user (possibly after minor, non-structural, alterations).

A wheelchair accessible home, however, is constructed and fitted to a standard suitable for 'day one' occupation by a wheelchair user without the need for alterations.

The Council requires 10% of all new housing to be designed to meet the standards prescribed in Approved Document M to the Building Regulations for an M4(3) home.

<u>Dwellings for sale on the open market should meet the</u> <u>minimum standards required for a **wheelchair adaptable**</u> <u>home, with all Affordable Housing dwellings constructed to a</u> <u>wheelchair accessible</u> standard.

Planning applications should demonstrate how a development proposal for a new dwelling(s) satisfies the functional and spatial provisions for wheelchair adaptable and/or wheelchair accessible housing.

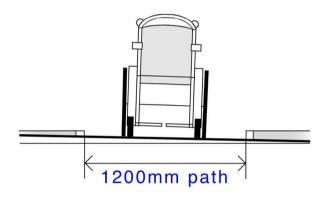
Floor plans submitted as part of a planning application should be at a scale of at least 1:100. Plans should include furnished planned layouts, and clearly demonstrate the access zones and other provisions as set out in Approved Document M to the Building Regulations.



#### Approach to the home

The approach route to a wheelchair accessible or wheelchair adaptable home should be level or achieve the shallowest gradient that can reasonably be achieved. The route should be safe and convenient for everyone, but above all, it must be step free, irrespective of the storey on which the dwelling is located.

The approach route to all private entrances must:

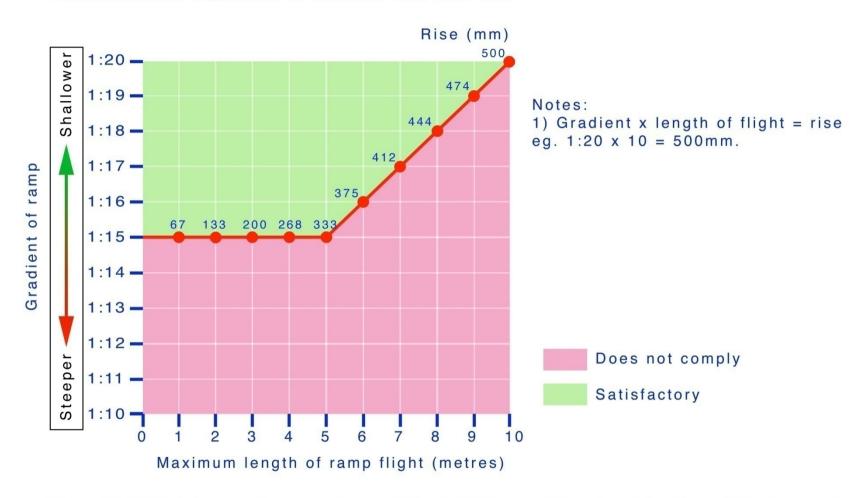


Max. 1 in 60 crossfall

- be level or otherwise step free, including the approach route to any dedicated storage for mobility scooters;
- where a communal ramped approach is required and the overall rise is 300 mm or more, the route must feature an additional stepped route;

- have a minimum clear width of 1200 mm (applies to private and communal approach routes);
- NOT feature a localised obstruction opposite or close to a doorway, or where a change of direction may be necessary. Any necessary obstruction must not continue more than 2 metres in length;
- provide a level turning or passing place 1500 mm wide and deep at each end of the approach route, and at intervals not exceeding 10 metres (refer to AD M);
- <u>have a suitable ground surface that is firm, even and slip resistant;</u>
- <u>have lighting throughout the exit areas that is fully</u> <u>diffused and activated automatically by a dusk to dawn</u> switch or motion sensors;
- ensure every gate, gateway and doorway, including the main communal or private entrance, achieves a clear opening width of 850 mm;
- <u>feature doors with a clear opening width of 850 mm, a minimum 300 mm nib to the leading edge, and a minimum 200 mm nib to the following edge.</u>

External and internal ramps (where necessary) should achieve a gradient of between 1:20 and 1:15



- Ramp flight to have a minimum clear width of 1200mm with a level landing at the top and bottom of every flight.
- Should have an intermediate landing between individual flights and at any change of direction. The landing should be level and minimum 1200mm wide and must be clear of any door or gate swing.

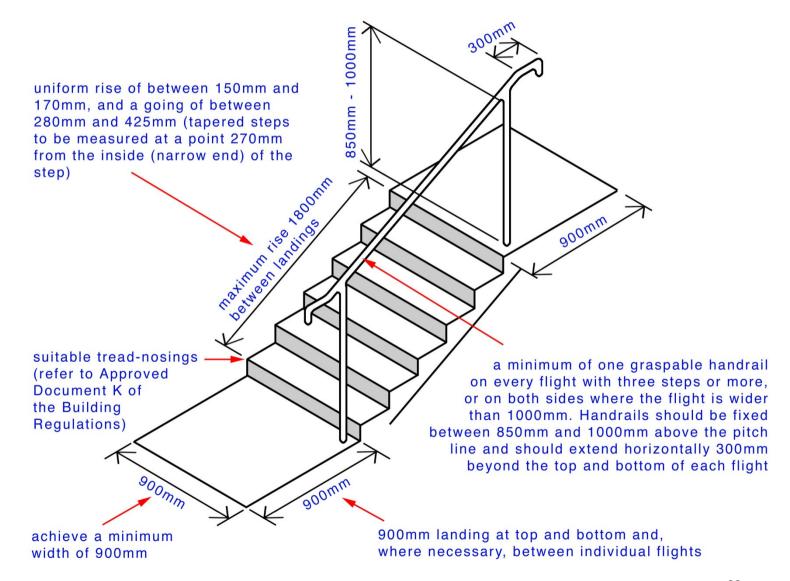
# **External Steps Forming Part of an Additional Route**

Any external steps required to form an additional access route should:

<u>not rise more than</u>
 1800 mm between

 <u>landings;</u>

 <u>adhere to these</u> specifications.



## **Accessible Car Parking**

To facilitate a wheelchair user getting in and out of a car from either side, and to allow designated access to the boot space, accessible parking spaces should be designed accordingly:

minimum clear access zone 1200mm to one side and at the rear of parking space

2400mm

level ground that is firm, even and slip resistant with a minimum 2200mm of clear headroom

ensure that an accessible communal parking space has a 1200mm clear access zone (wheelchair user transfer area) to both sides of the space and at the rear

**NB:** It is acceptable for two adjacent accessible parking bays to share a side access zone.

# **Drop Off Point**

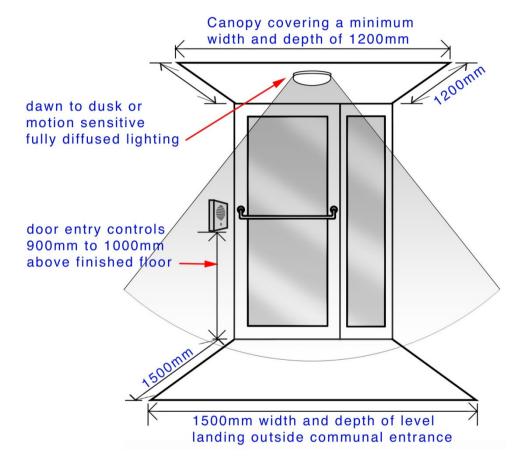
# Where a drop off point is provided it should:

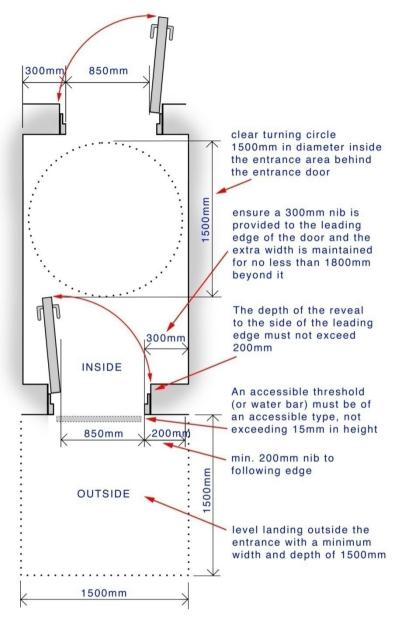
- <u>be located close to the principle</u> <u>communal entrance of the building</u> <u>containing the dwelling</u>
- <u>be on level ground that is firm, even and</u> slip resistant
- ensure that any necessary dropped kerb is a minimum of 1000 mm wide, is reasonably flush with the adjoining ground and achieves a maximum gradient 1:15



## **Principle Communal Entrance**

<u>Every communal door or gate along the approach route should adhere to these specifications</u>





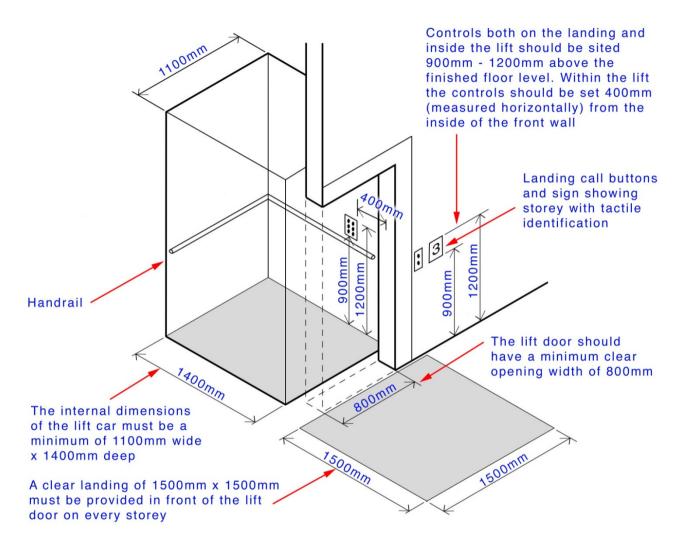
NB: Ensure that a power assisted opening device is installed where the opening force of the door exceeds 20 newtons. Ground and floor surfaces should not impede the movement of wheelchair users.

## **Communal Lifts**

To achieve a step free route to all dwellings, including accessibility for accompanied wheelchair users, a passenger lift is required in all multi-storey buildings.

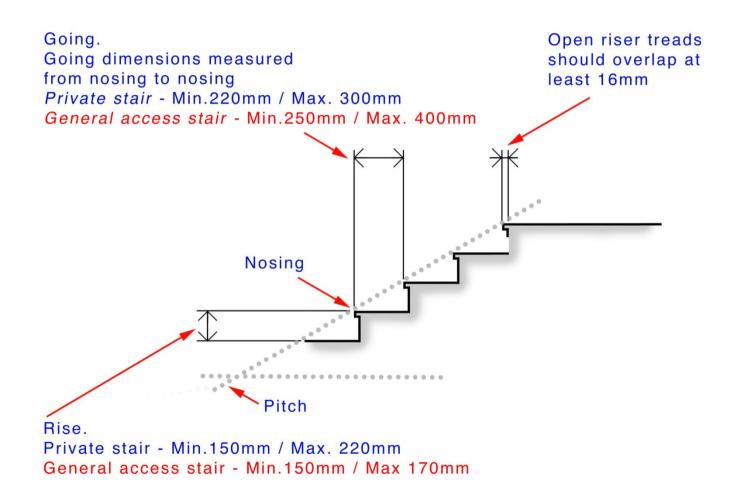
# <u>NB:</u>

- A minimum delay of 5 seconds is required before the doors begin to close.
- <u>Lifts should meet BS EN 81-70:2003</u> for a Type 2 lift.

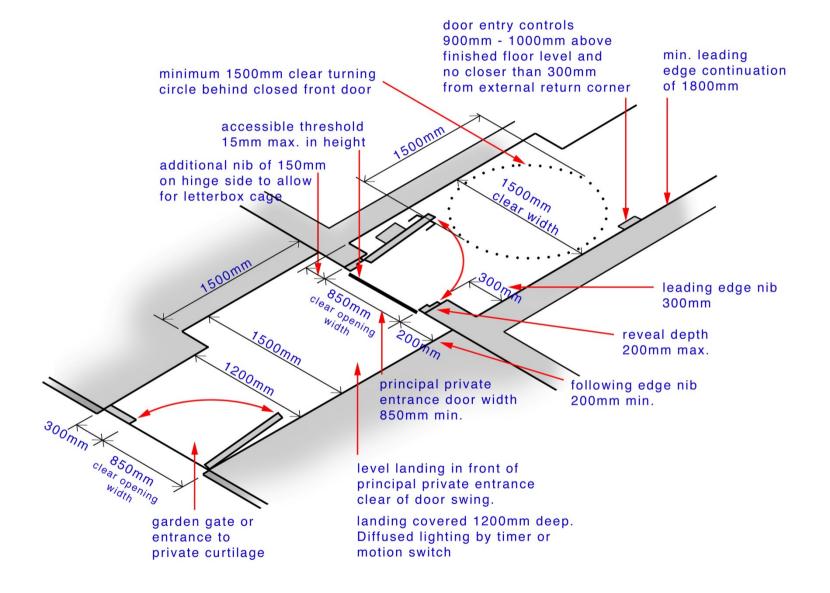


# **Communal Stairs**

<u>Principle communal stairs that provide access to a dwelling should meet the provisions of Approved Document K to the building regulations for a general access stair.</u>



## **Private Entrances**



## **Other External Doors**

All other external doors, including to a garage, carport, amenity space, conservatory, balcony, terrace and any storage area that is integral or connected to a dwelling should:

- feature an accessible threshold with a maximum upstand of 15 mm;
- have a clear opening width of 850 mm;
- In the case of double doors, provide a minimum of one door leaf with a clear opening width of 850 mm;
- <u>have a 200 mm (minimum) nib to the following edge of the door. The extra width created by the nib must be maintained for a minimum of 1500 mm beyond it;</u>
- <u>be positioned centrally within the thickness of the wall and ensure the reveal depth on the leading face of the door (usually the inside)</u> is a maximum of 200 mm;
- provide between any lobby or porch doors, a minimum distance of 1500 mm between the doors and/or door swings:
- be designed with any required door entry controls between 900 mm and 1000 mm above the finished ground level.

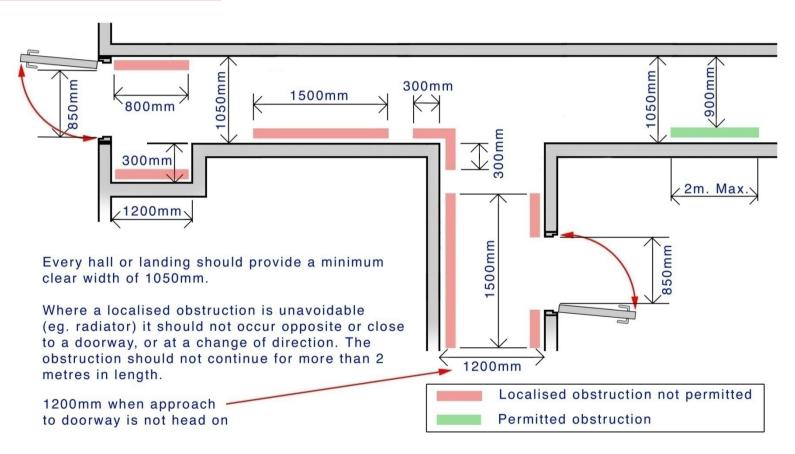
#### Hall and Door Widths

To achieve good wheelchair manoeuvrability and movement into and between rooms, internal doors should:

- achieve a minimum clear opening width of 850 mm irrespective of the direction of entry;
- where they open outwards into a circulation area, be a minimum 800 mm away from another door positioned on a return wall, unless a 1500 mm turning circle is achieved between the two doors;
- feature a minimum nib of 300 mm to the leading edge, and a minimum nib of 200 mm to the following edge.

NB These provisions do not apply to cupboards unless they are large enough to be entered.

Wheelchair access is similarly not expected into ensuite bathrooms or showers that are an additional facility to the minimum requirements of a wheelchair adaptable, or wheelchair accessible dwelling, as set out in Part M to the Building Regulations.

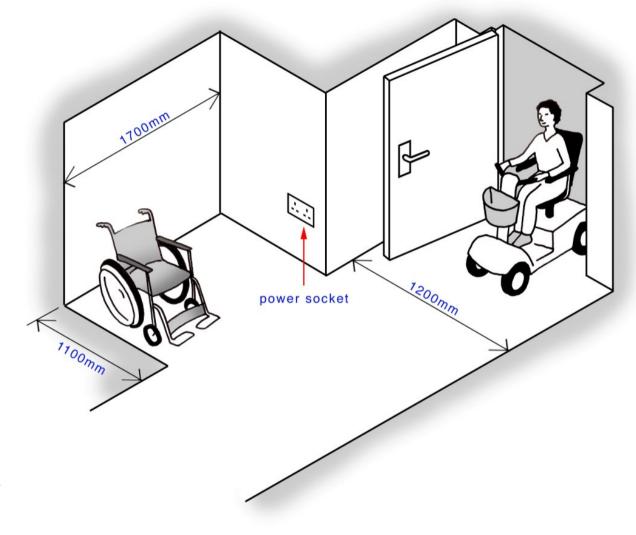


# Wheelchair Storage Transfer Space

Wheelchair users typically require an area to store and charge two wheelchairs. Sufficient space should be provided to allow a person to (for example) transfer between an indoor and an outdoor wheelchair, New dwellings should incorporate a transfer/storage area that is:

- <u>available on the entrance storey and</u>
   <u>preferably close to the principle private</u>
   entrance;
- <u>1100 mm deep x 1700 mm wide;</u>
- <u>accessible from an area that has a minimum</u> <u>clear width of 1200 mm adjacent to the</u> <u>transfer area;</u>
- <u>fitted with a power socket should be</u> <u>conveniently located within the space to</u> <u>allow both wheelchairs to be charged</u> <u>simultaneously.</u>

NB: within a wheelchair adaptable dwelling, the storage and transfer space may be designed for another purpose, e.g. a storage cupboard, provided it can be converted to a wheelchair storage/transfer area without alteration to the structure or services.



This space should not be used as a substitute for the minimum requirements of storage, living spaces and bedrooms as prescribed in Part M to the Building Regulations.

# General Storage Space

To ensure adequate provision for storage of household items, general storage space should comply with the table as set out below:

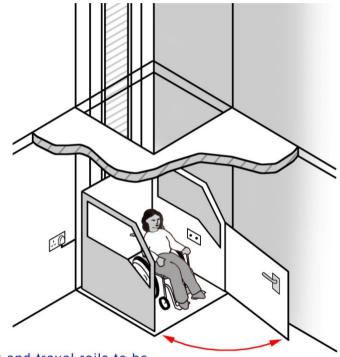
General Built-in storage (minimum area)						
Number of bedrooms	1	2	3	4	5	6
Minimum storage area (m <sup>2</sup> )	1.5	2.0	2.5	3.0	3.5	4.0

- Storage space should ensure that 50% of its area (minimum) achieves head room between 900mm and 1500mm
- · Spaces that fall below the minimum 900mm head height do not count
- The total area under the staircase that is used for storage should be counted as 1 m<sup>2</sup>

## **Through-Floor-Lift**

To facilitate wheelchair access to all storeys of a home, new developments designed to satisfy the requirements of a wheelchair adaptable dwelling should allow for the easy installation of a lift by means of a liftway and a soft pocket (a concealed ceiling opening) to allow for future lift installation. The liftway and soft pocket should allow a lift car and its vertical travel rails to be installed without the need for structural alterations.

In new developments where a percentage of affordable housing is to be defined as wheelchair accessible, a suitable through-floor-lift (or lifting platform) should be installed and commissioned at the build stage. The lift requirements for a two storey dwelling can typically be met by a domestic type lift designed to BS 5900, or, a lifting platform to BS EN 81 – 41



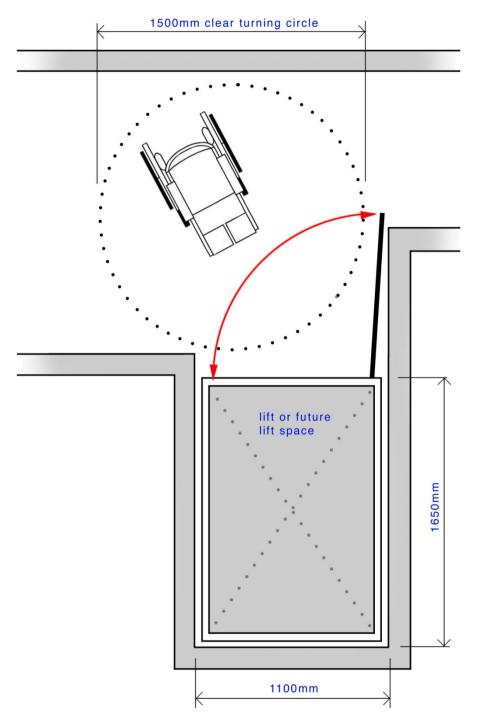
lift car and travel rails to be installed without the need for structural alterations.

To satisfy the requirements for a wheelchair adaptable and wheelchair accessible dwelling, the design must include a:

- continuous liftway of 1100 mm wide x 1650 mm long (internally), linking every floor of the dwelling;
- <u>liftway that can be entered from its narrowest point</u> on every floor;
- <u>1500 mm (minimum) clear turning circle is</u> provided, clear of, and in front of the liftway/lift door when open at 90 degrees;
- <u>suitable power socket to supply a lift should be</u> <u>installed close to the liftway - some lifts require a</u> <u>three-phase power supply;</u>
- <u>liftway located in the circulation area on every</u>
   floor, (regardless of the number of storeys), i.e.
   not travel through or terminate within a bedroom
   or living space.

# <u>NB:</u>

- The lift door should be opposite the back wall to that of its vertical travel rails
- The lift door(s) should open and close automatically.

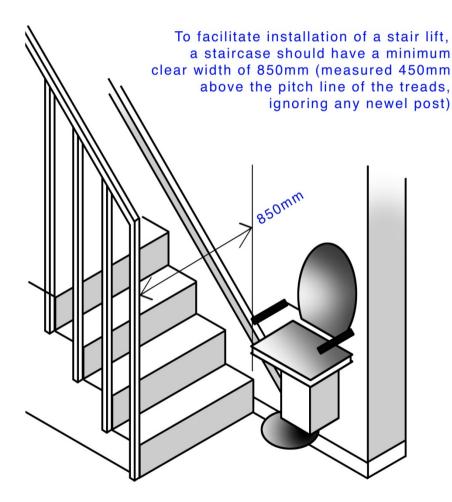


#### Private Stairs and Changes In Level WithinThe Home

An ambulant disabled person should be able to move within and between all storeys. Wheelchair adaptable, and, wheelchair accessible dwellings should be designed to allow for a future stair lift from the entrance storey to a storey above or below that features the main bedroom and bathroom (as defined in Approved Document M).

#### The design of dwellings should ensure:

- all rooms and facilities on the entrance storey are step free;
- no change in level on any other storey within the home;
- <u>all stairs achieve a minimum clear width of 850 mm when</u>
   <u>measured 450 mm above the pitch line of the treads (ignoring any newel post);</u>
- stairs are designed to satisfy the requirements of Approved <u>Document K to the Building Regulations.</u>



# Habitable Rooms,

# **Living Areas**

<u>Living spaces should be convenient and have a step free relationship between the entrance level WC and principle private entrance. A living area or space should:</u>

- be provided on the entrance storey;
- achieve a combined internal floor area for the living, dining and kitchen space, as per the table below;

Minimum combined floor are	a for li	ving, di	ning an	d kitche	en space	9	
Number of bed spaces	2	3	4	5	6	7	8
Minimum floor area (m²)	25	27	29	31	33	35	37

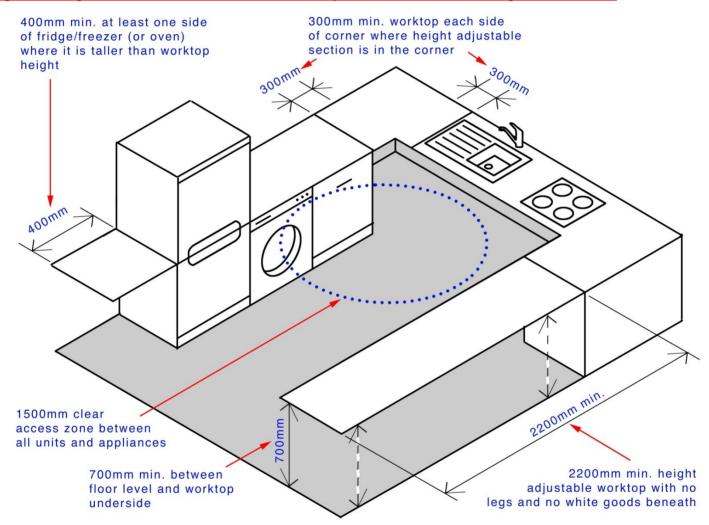
• <u>have living area window glazing that begins at a maximum 850 mm above the finished floor level, or at the minimum height to satisfy</u>

<u>Part K for guarding to windows (whichever is lower).</u>

#### Kitchen and Eating Areas

The relationship between a kitchen, dining and living area should be convenient and step free. Kitchen and eating areas should:

- be within the same room, or connected to each other, and on the entrance storey;
- <u>have a minimum clear access zone</u>
   of 1500 mm wide between all
   kitchen units and appliances;
- feature a section of worktop no less than 2200 mm long. This section should be height adjustable, (or may be a fixed section capable of being re-fixed at an alternative height).



Where a dwelling is defined as wheelchair adaptable it should provide kitchen worktops in accordance with the following table:

Minimum length of kitchen worktop, including fittings and appliances, to be installed prior to occupation of a wheelchair adaptable dwelling					
Number of bed spaces	2	3 & 4	5	6 - 8	
Min. worktop length in mm	4330	4730	5630	6730	

• Where a new dwelling is required to be **wheelchair accessible**, a kitchen should provide an overall kitchen worktop length in line with the following table:

Minimum length of kitchen worktop, including fittings and appliances, to be installed prior to occupation of a wheelchair accessible dwelling				
Number of bed spaces	2	3 & 4	5	6 - 8
Min. worktop length in mm	6130	6530	7430	8530

NB: Ensure a minimum worktop run of 400 mm to at least one side of the oven and fridge/fridge freezer where they are taller than the worktop height. Refer to Approved Document M to the Building Regulations for full details on all other kitchen fittings.

#### **Principal Bedroom**

Wheelchair adaptable and wheelchair accessible homes should provide a minimum of one fully accessible bedroom close to a main bathroom.

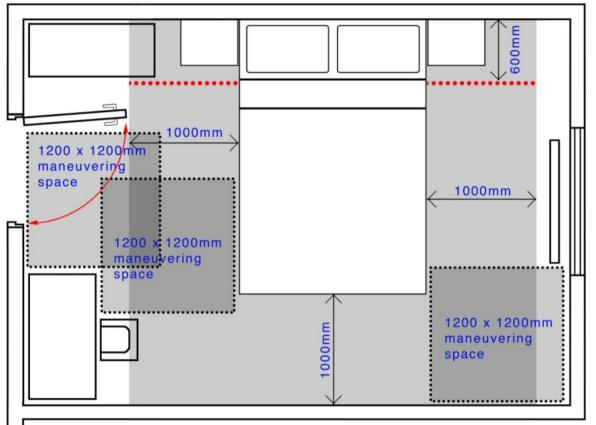
#### Provisions are to include:

- <u>a principle double bedroom with a minimum</u> <u>floor area of 13.5 m<sup>2</sup> and which is a minimum</u> <u>of 3 m wide;</u>
- <u>a minimum clear access route, 750 mm wide</u> <u>from the bedroom doorway to the window;</u>
- no less than 1200 mm x 1200 mm manoeuvering space on the inside of the bedroom doorway, clear of the bed and door (in the closed position);
- <u>a ceiling structure within every bedroom to be</u> <u>sufficiently strong to allow the fitting of an</u> <u>overhead hoist capable of lifting 200 kg;</u>
- <u>a 1000 mm wide clear access zone in all other</u>
   <u>double bedrooms to one side and at the foot of the bed, and in front of all furniture.</u>

# Single Bedrooms

- in all single and twin bedrooms, a minimum 1000 mm clear access zone to one side of each bed and in front of all furniture;
- <u>a minimum width of 2.4 m and a floor area no less than 8.5 m<sup>2</sup> in all single bedrooms.</u>

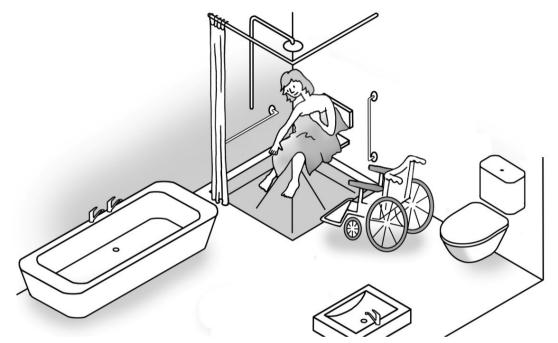
**NB:** . Bed and furniture sizes should comply with the furniture schedule prescribed in Part M.



#### Sanitary Facilities

All new residential developments required to be wheelchair adaptable or wheelchair accessible are to provide suitable toilet and washing facilities for wheelchair users.

- a) <u>Dwellings with four or more bed spaces should</u> <u>provide two wheelchair accessible toilets in separate</u> <u>bathrooms or WC/cloakrooms.</u>
- b) Every room containing an installed level access shower to be constructed as a wet room.
- c) All walls, including ducts and boxings, within every bathroom, shower room, and WC/cloakroom to be capable of withstanding a 1.5 kN/m² load to support grab rails, flip down seats and other adaptations.



- d) The ceiling structure in every bathroom, shower room and WC should be capable of supporting an overhead track hoist load of 200 kg.
- e) <u>Stacks or soil and down pipes should be sited away from the toilet pan (except if there is no other practical alternative, in which case they must always be on a sidewall of the cubicle).</u>

NB: the detail pertaining to the position and type of fixtures and fittings should accord with Approved Document M.

# Summary of minimum requirements for sanitary provision in typical dwelling types

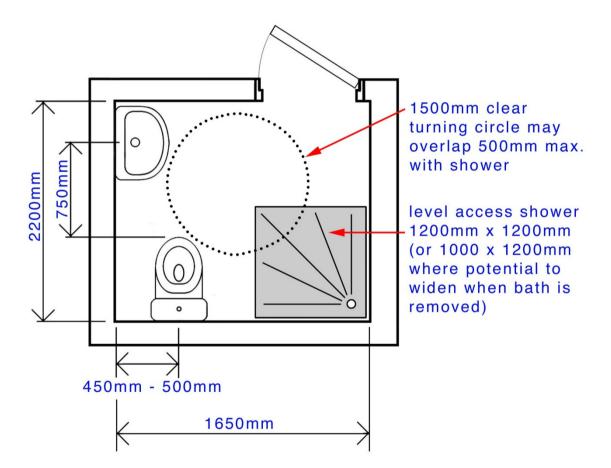
Single storey dwelling (typically a flat or bungalow)				
Occupancy	Typical minimum sanitary provision			
2 or 3 bedspaces	Bathroom with level access shower			
4 bedspaces	Bathroom with level access shower and separate WC/cloakroom			
5 bedspaces or more	Bathroom with level access shower and separate WC/cloakroom (or second bathroom).  Wheelchair accessible dwellings must also provide a level access shower and a bath			
Two or three storey dwelling (typically a house or maisonette)				
Occupancy	Typical minimum sanitary provision			
2 or three bedspaces	Bathroom with level access shower on same level as principal bedroom + entrance storey WC/cloakroom or second bathroom.			
	Service and the service of the servi			
4 bedspaces	Bathroom with level access shower on same level as principal bedroom and entrance storey WC/cloakroom or second bathroom			

## WC Facilities on the Entrance Storey

To ensure that a suitable and convenient WC is available for a wheelchair user to use, all new dwellings should ensure that:

- the entrance storey features a wet room (which may be a WC/cloakroom or a bathroom), that contains a toilet, a basin, and an installed level access shower that complies with the requirements of Approved Document M;
- the door to the WC or bathroom opens outwards.

NB: where a dwelling provides a bathroom and a WC/cloakroom on the same storey, it need only be sized and fitted as a secondary facility as detailed in Approved Document M.



#### **Bathroom Facilities**

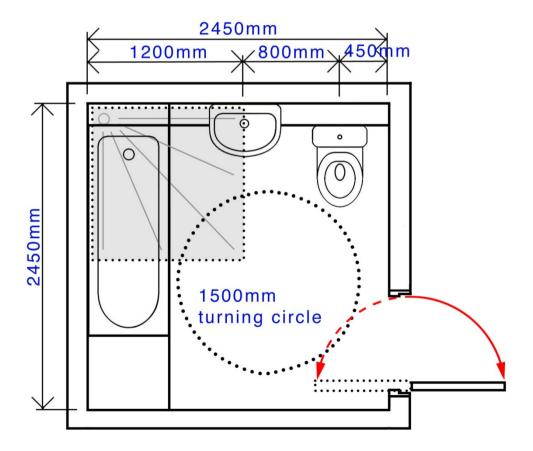
A suitable and convenient bathroom is a requirement within a wheelchair adaptable or wheelchair accessible dwelling.

- 1. <u>Dwellings with up to four bed spaces are to have a minimum of one bathroom that contains a toilet, basin, and installed level access shower with the potential for a bathtub to be installed above it.</u>
- 2. The bathroom containing the installed level access shower should be located on the same storey as the principle double bedroom.
- 3. <u>In dwellings with five bed spaces or more, where a shower room and a bathroom are on the same storey, either room (but not both) may be an ensuite facility.</u>
- 4. Where a fully accessible shower room is on the same storey as a principle bedroom, a separate room providing the bath need only comply with the requirements for an M4(2) bathroom.

# Bathrooms in Wheelchair Adaptable Dwellings

Where a dwelling is to be defined as wheelchair adaptable, it is acceptable, though not a requirement, for a bathtub to be installed over a fully working level access shower area.

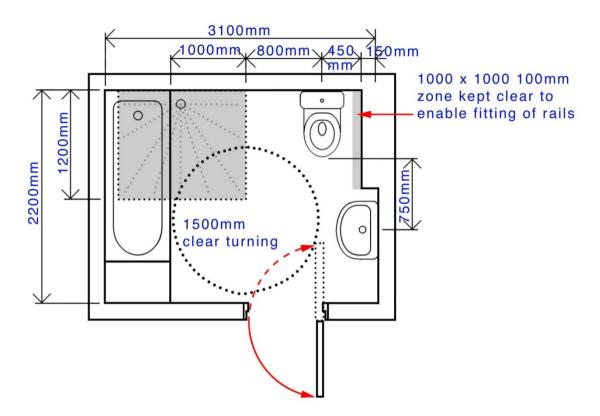
Plans submitted with a planning application should illustrate how a bathroom could be easily adapted to meet the provisions for a wheelchair accessible bathroom. (Plans need only show a bath or level access shower).



#### Bathrooms in Wheelchair Accessible Dwellings

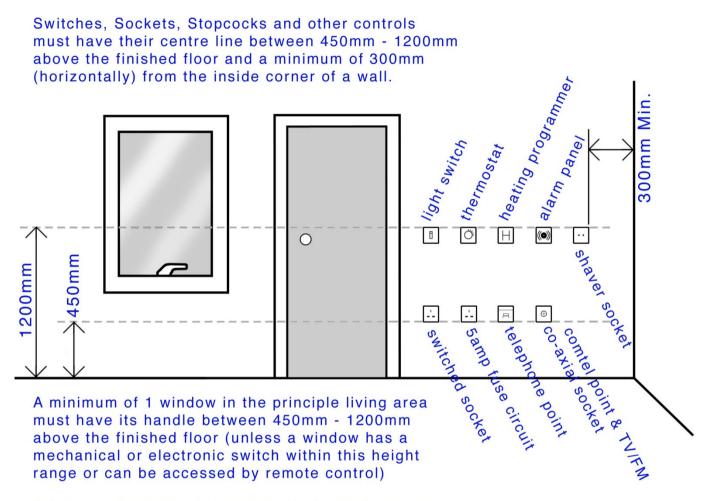
Where a dwelling is required to be wheelchair accessible, the bathroom should meet the following requirements:

- 1. <u>The WC, handbasin, level access shower, and bathtub</u> (where provided), and their associated clear access zones, should be designed as per the following example.
- 2. <u>Dwellings with up to four bed spaces are to specify an installed level access shower by default, but a bathtub can be accommodated as an alternative if required by a known occupier.</u>
- 3. In dwellings with five bed spaces or more, a working bath and an installed level access shower must be provided (in one or more bathrooms on the same storey as the principle bedroom).
- 4. The furniture layout of bathrooms and shower rooms should accord with the example opposite.
- 5. The level access shower should be positioned in a corner to enable a shower seat to be fitted on one wall with shower controls installed on an adjacent wall.
- 6. The bathroom(s) must provide a 1500 mm turning circle.



#### Services and Controls

To assist a wheelchair user to reach services and controls, including but not limited to, the consumer unit, sockets, switches, stopcocks, and controls, they should be installed and specified in accordance with Approved Document M to the Building Regulations.



All other windows to have a handle located between 450mm - 1400mm above the finished floor level

## **Private Outdoor Space**

A wheelchair user must be able to access and use every private outdoor space, be it a private garden, balcony or roof terrace. To satisfy the requirements of Part M to the Building Regulations, every private outdoor space must provide a:

- minimum clear width of 1500 mm;
- minimum clear turning circle of 1500 mm, which is level and free of any door swing;
- <u>level or gently sloping path that achieves a minimum clear width of 1050 mm to every private refuse, recycling, cycle, or other external</u> store:
- clear turning circle of 1500 mm in diameter at each end of every path;
- gate (or gateway) that has a minimum clear opening width of 850 mm, 300 mm nib to the leading edge, and 200 mm nib to the following edge;
- door with a minimum clear opening width of 850 mm to every external store;
- ground surface suitable for wheelchair users.

# **Minimum Floorspace Standards**

Gross Internal Floor Area (GIA) standards ensure adequate space is provided in residential dwellings to achieve a pleasant, healthy home. The Minimum Floorspace Standards should adhere to those specified in the GLA London Plan.

In order to successfully incorporate the specifications of a wheelchair standard home, the Council will normally require such dwellings to exceed the minimum recommended standards (GLA, London Plan 2011)

#### NB:

Further guidance on density, sunlight and daylight, privacy, amenity, playspace and public open space and other design criteria is provided in the Hillingdon Design and Accessibility Statement (HDAS): Residential Layouts Supplementary Planning Document.

Minimum floor space requirements for living, dining rooms, bathrooms, bedrooms, balconies and storage space are to be included in the Local Plan Development Management Policies and/or detailed in a revised HDAS Residential Layouts SPD and subject to separate consultation.

# Sheltered housing/Residential developments for over 55s

New homes specifically for the above group in both public and private sectors, must comply with Category M4(2) and M4(3) as specified in Approved Document M to the Building Regulations. New developments must meet the minimum requirements of Approved Document Q to the Building Regulations, and should endeavour to obtain a Secured by Design, design award. More details of this can be found at: www.securedbydesign.com

## **Residential Care Homes**

To be built in accordance with the Care Quality Commission National Minimum Standards and to have regard to the best practice guidance contained in this document. For all newly built homes and first time registrations, the location and layout of the home should be suitable for its stated purpose.

Paragraphs 3.41 – 3.52 of Part B of the Building Regulations (Fire Safety) as amended 2007 must be met.

A report by the Housing our Ageing Population Panel for Innovation (HAPPI report) identified ten elements that are critical to achieving age-inclusive housing, which Hillingdon Council fully supports.

Housing for older people should ensure:

- generous internal space standards
- plenty of natural light in the home and in circulation spaces
- balconies and outdoor space, avoiding internal corridors and single-aspect flats
- adaptability and 'care aware' design which is ready for emerging telecare and telehealthcare technologies
- circulation spaces that encourage interaction and avoid an 'institutional feel'
- shared facilities and community 'hubs' where these are lacking in the neighbourhood
- plants, trees, and the natural environment
- · high levels of energy efficiency, with good ventilation to avoid overheating
- extra storage for belongings and bicycles
- shared external areas such as 'home zones' that give priority to pedestrians

Further information is available from information can be obtained from www.housinglin.org.uk

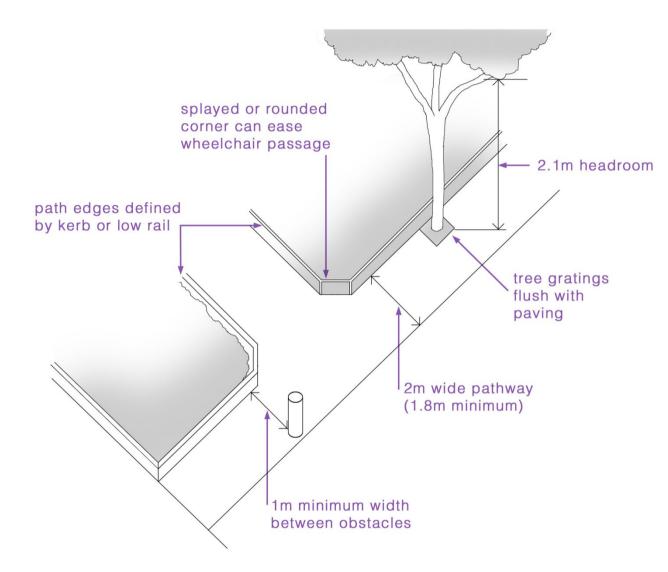
Public, Commercial and Employment Development



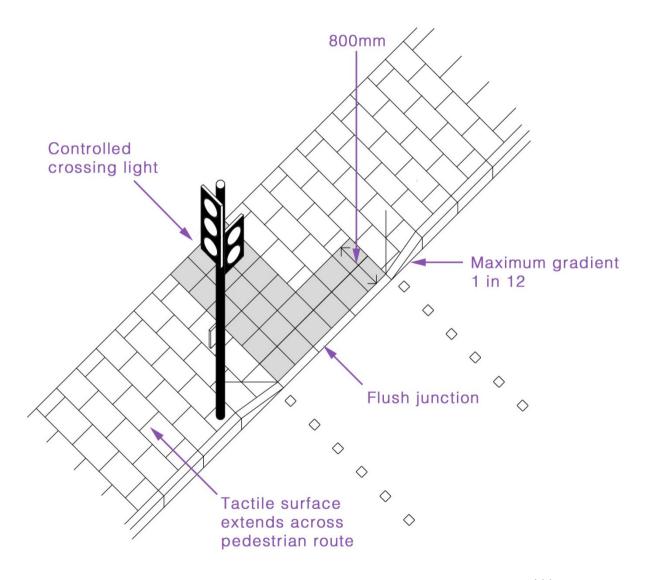
# **Streetscape**

Pavements, footways and other pedestrian routes should:

- be at least 2000 mm wide;
- in less busy areas, be at least 1500 mm in width:
- provide a head height of at least 2600 mm from the pavement to any overhead protrusion;
- highlight potential hazards and edges using a kerb or guardrail, or by introducing a change in surface texture and/or colour or tonal contrast;
- be level, with gradient not exceeding 1 in 20, with cross-falls no greater than 1 in 50;
- have surfaces that are slip resistant, even, firm and durable;
- be direct, well lit and clearly defined;



- not feature drainage gratings or gully covers, unless unavoidable. (If essential, drainage gratings should be positioned as far as possible from the main pedestrian flow, set flush with the surrounding surface, with slots no more than 13 mm wide and set at right angles to the dominant line of travel);
- ensure gaps in paving do not exceed 10 mm;
- have any street furniture positioned to maintain a 'clear corridor' and allow unhindered pedestrian flow. Street furniture should be clearly distinguishable from its background;
- not permit the display of freestanding advertising boards;
- avoid the use of bollards. Where essential, bollards should be at least 1000 mm high, feature a contrasting band and not be linked by a chain;





Pavements, footways and other pedestrian routes must also:

- feature dropped kerbs at junctions and designated crossing points with appropriate tactile paving. (All tactile paving must be used sparingly and follow the guidance given in Guidance on the use of Tactile Paving Surfaces, DfT 2007)
- ensure that dropped kerbs are flush with the carriageway, however, a 6 mm max. level difference is acceptable using a rounded bull nose, if engineering constraints prevent otherwise;

- where waiting is likely, provide seating with armrests and a seat height of 450-500 mm with space for wheelchairs and pushchairs alongside;
- otherwise to conform to the latest BS 8300.



# **Approach to Buildings and Facilities**

The location and orientation of a building within a site influences accessibility generally but particularly the distances people need to travel. Careful design minimises access barriers associated with, for example, gradients, walking distances, as well as potential conflicts with cyclists and motorists.

As far as possible, access to a building must:

- be level from the site entrance and throughout;
- be clearly defined and well lit;
- where, due to site constraints, a change of level is unavoidable, ensure a gentle gradient no steeper than 1 in 60 across the whole site, or 1 in 20 with level landings for every 500 mm rise;
- ensure any necessary crossfall is no steeper than 1 in 50;
- only be via a ramp where an Access Statement demonstrates what technical or other constraints prevent an approach gradient of 1 in 20 or less. (Ramp design should follow guidance in this document).

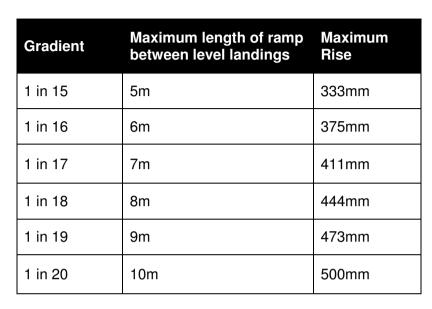
**NB:** Where site constraints prevent the installation of a ramp to an existing entrance, it is often possible to adjust the ground level to eliminate steps.

# Ramps

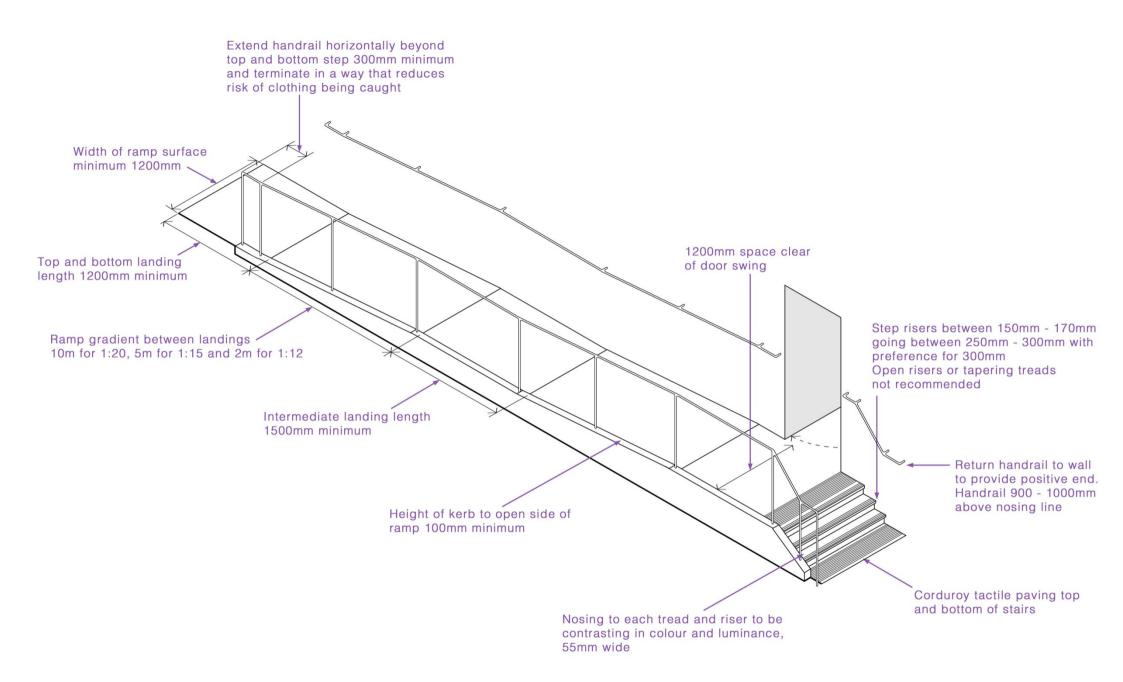
Any necessary ramps should be accompanied by steps that serve a principal entrance.

#### Ramps must:

- be substituted by an alternative means of access, such as a lift, if the total rise exceeds 2 m. (Stepped ramps are not permissible);
- ensure ramp length, gradient and specification adhere to the requirements overleaf;
- have the lowest practicable gradient, preferably not exceeding 1 in 15;



- have a minimum surface width of 1.5 m;
- feature a 100m minimum upstand on outer edge(s);
- provide landings at the foot and head of a ramp, at least the width of the ramp and 1.5 m minimum length clear of any door swings or other obstruction;
- feature intermediate landings 1.5 m long that are clear of any door swings or other obstruction, or potential obstruction;
  - provide a slip-resistant surface;
- provide additional artificial lighting at the at the top bottom of flights; at least 200 lux (refer to BS 8300 for detailed guidance);
- NOT feature corduroy tactile warning at the top and bottom of ramp flights (corduroy tactile warning to feature on steps only).



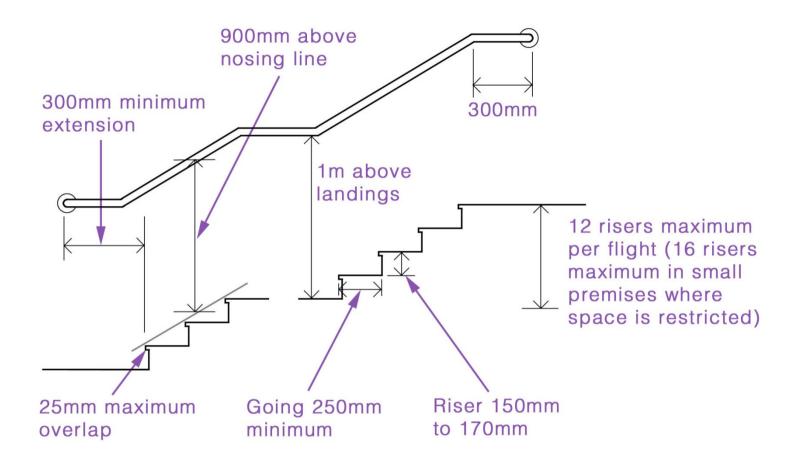
# Steps should:

- be 1.2 m wide;
- however short a flight, provide continuous handrails on both sides that extend 300 mm beyond the top and bottom of a flight;
- ensure handrails are no more that 1800 mm apart; 40 mm 45 mm in diameter, if circular and 50 mm if oval; and not cold to the touch;
- ensure a handrail height between 900 mm and 1000 mm from the pitch line, and between 900 mm - 1100 mm from a landing;
- have handrails that end with a 90° turn to the ground or an adjacent wall;
- be slip resistant even when wet;
- be well lit (200 lux minimum);
- provide corduroy tactile warning surfaces at the top and bottom of flights;



- provide a level landing at the top and bottom of each flight, not less than 1200 mm<sup>2</sup>;
- ensure no more than 12 risers between landings;
- incorporate tread nosings that are flush, 55 mm wide, made from a permanent material that contrasts in colour and luminance with the standing and facing surfaces of all risers;
- ensure tread nosings do not project more than 25 mm, where they cannot be avoided;
- otherwise comply with Part M to the Building Regulations, and, Guidance on the use of Tactile Paving Surfaces, Department for Transport 2007.

**NB:** Stainless steel handrails must be avoided. They often become too cold to maintain a grip, exacerbate symptoms of arthritis for example, are slippery, particularly when wet, and do not contrast well against glass and other indistinct backgrounds. Alternatives include wood and coated steel handrails.



NB: A second lower handrail at 600 mm above the pitch line, for use by people of short stature, should be considered.

# **Accessible Parking**

For many older and disabled people, the car remains an essential and irreplaceable means of mobility.

Hillingdon Council operates a Brown Badge scheme for borough residents aged 65 and over who have restricted mobility but who do not meet the criteria for a Blue Badge.

When considering car parking provision for new developments, developers should take a design-led approach to ensure a suitable layout and number of car parking spaces, including a sufficient quantity for use by older and disabled people.

Parking provision for older and disabled people should be as below:

Minimum number of parking bays for use by older and disabled people		
Brown Badge spaces	Blue Badge spaces	
5% of the total parking provision	10% of the total parking provision designed to British Standard 8300: 2009	

**NB:** Brown Badge parking provision is particularly important on large scale retail developments. On other developments, the Council will invoke its discretion where a Design & Access Statement supporting a development application can demonstrate that the above percentages would amount to over provision and regular under occupation of the accessible parking bays.

When designing new developments, or making alterations to existing buildings, planning applicants must incorporate accessible parking for Blue Badge and Brown Badge holders wherever parking provision is proposed.

# Planning applicants must therefore:

- demonstrate where and how many accessible parking spaces will be provided;
- identify within an Access Statement where Blue Badge holders might park and easily access the development, if no off-street parking is proposed;
- provide a setting down point close to the entrance for door-to-door transport vehicles, as appropriate (under cover seating should be considered at picking up points).

# Blue Badge and Brown Badge Parking

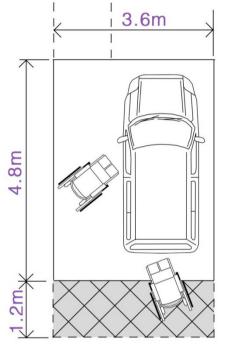
In all off-street non-residential car parks, spaces for Blue Badge and Brown Badge holders should:

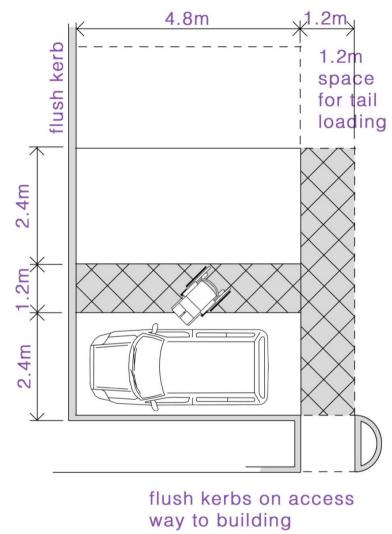
- 1. be visible or signposted from the car park entrance;
- 2. be provided as close as possible, but within 50 m of the facilities to which they serve;
- 3. in multi-storey car parks, be on a level(s) close to a wheelchair accessible lift to minimise walking;
- 4. be located to allow access to a ticket machine with easy to use controls, slots and dispensers (further details are given in BS 8300);
- 5. measure 2400 mm x 4800 mm with a shared 1200mm shared transfer zone:
- 6. be clearly marked with the international wheelchair symbol on the ground and on a signpost at eye level, and otherwise designed and marked in accordance with BS 8300 (Blue Badge bays only);
- 7. be close to level and clearly identifiable pedestrian routes;
- 8. be monitored for abuse and display penalty-warning notices for motorists not displaying a Blue Badge or Brown Badge.

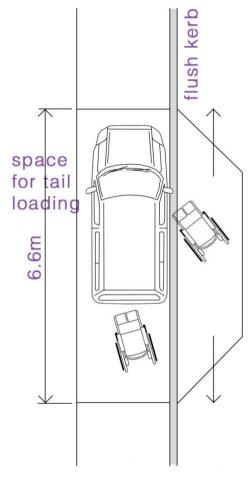
**NB:** To make the route more manageable by disabled people, if accessible bay(s) cannot be near to facilities served by the car park, a covered pedestrian walkway, seating along the route and good signage should be provided.



# Accessible Parking Design







Single off street space

Spaces within range of general parking

On street parking bay

# **Entrances**

Entrances to new buildings should:

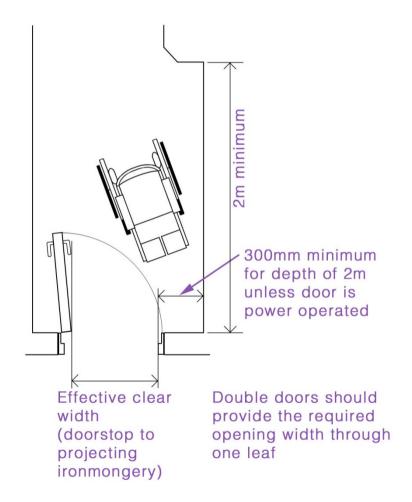
- be easy to identify without excessive signage;
- be integral to an approach route that is level at all entrances and exits (maximum threshold upstand 10 mm, chamfered or rounded);
- be unobstructed and well lit;
- ensure glazed entrances and windows are marked for safety and visibility from 850 1000 mm and 1400 1600 mm above the finished floor level. A minimum 10% of glazed areas should be permanently marked (manifestation) with lettering, company logos, etc;
- ensure the height of any door entry system is suitable for wheelchair users, and has a camera to facilitate access by people with hearing or speech impairments.

#### **Entrance doors**

Doors leading into and out of buildings should be easy to open by people with limited manual dexterity or strength, those with a pram or pushchair, and they should be easy to negotiate by wheelchair users. To ensure a good standard of access:

- automatic sliding doors should be used in preference to other types of opening.
   To minimise heat loss, two sets of automatic doors within a drum should be considered;
- swing doors should have an unobstructed space of at least 300mm adjacent to the latch side of a door (leading edge);
- if automatic swing doors are essential, the swing area should be protected by guard rails to require a head-on approach;
- revolving doors should be avoided. If used, an adjacent pass door should be provided and kept unlocked during opening hours;
- manually operated doors should require an opening force no greater than 25 Newtons at the leading edge;
- door handles should be easy to grip and contrast in colour to the door (minimum Light Reflectance Value);

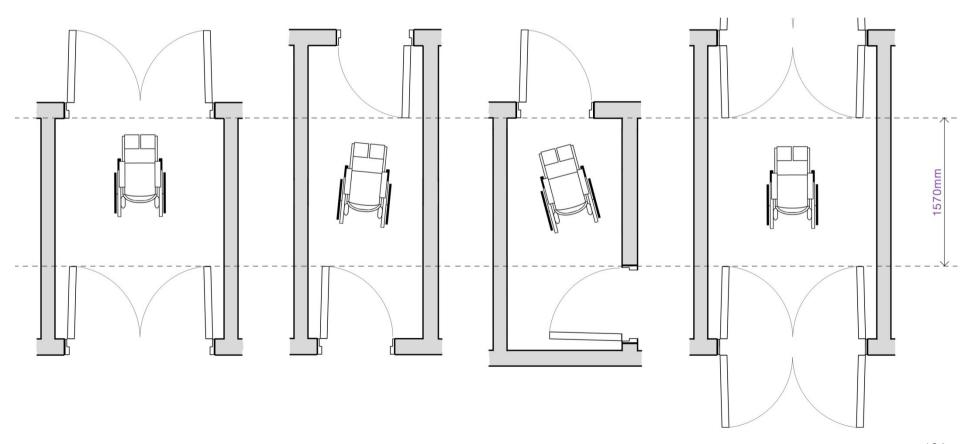
**NB:** Stainless steel doors and handles provide poor contrast against glass and should be avoided.



# Lobbies

Lobbies should be sized to allow wheelchair users to move clear of one door before negotiating a second. The minimum length of a lobby is related to the door size and swing direction.

Further detail is given in Approved Document M of the Building Regulations, however, in general 1570 mm of clear space should be provided between door swing areas.



# **Reception Areas**

Reception areas and entrance halls should be easily accessible and convenient to use, and should ensure:

- counters and reception desks allow wheelchair access to the visitor and staff side, and are designed to make communication easy for those lip reading, using sign language or hearing aids;
- an induction loop is provided at all reception desks;
- routes from the reception area to stairs, lifts and WCs are clearly defined, unobstructed and well signed.



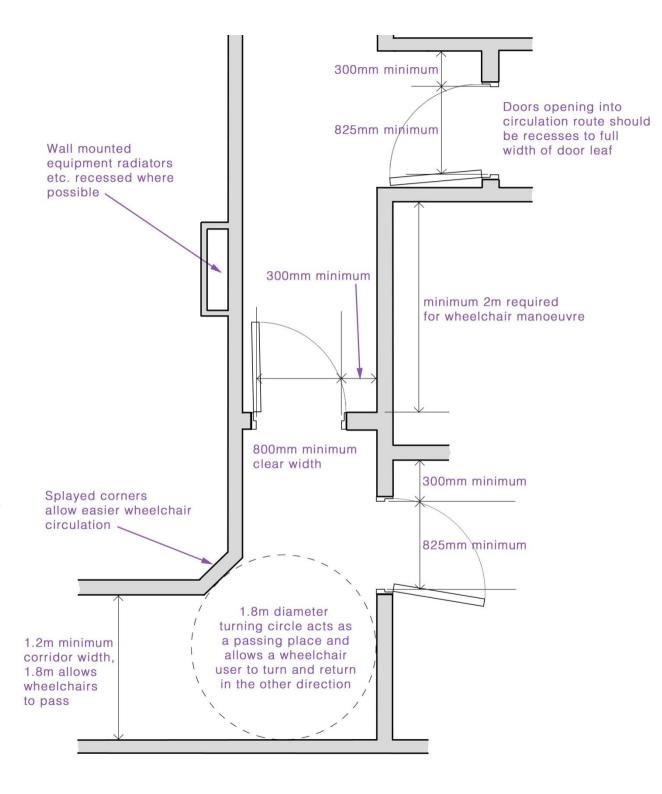
# **Internal Doors and Corridors**

Internal doors in new buildings should open beyond 90 degrees and have a minimum clear opening width of 800 mm in accordance with BS 8300.

#### Doors should:

- where fitted with self-closing devices accord with BS 8300 (see page 20 and 73);
- have an unobstructed space of at least 300 mm adjacent to the leading edge of the door on the pull side;
- be held open along circulation routes by electromagnetic devices linked to the fire alarm system;
- feature a vision panel between 500 mm and 1500 mm from the floor level (see BS8300 for detailed guidance) along circulation routes and preferably elsewhere (except where privacy is required).

**NB:** Corridors should have an unobstructed width of 1800mm. Where the width is less than 1800 mm, passing places should be provided at reasonable intervals.



#### **Vertical Circulation**

#### Lifts

A passenger lift should be provided in all new multi-storey developments. (See page 78.)

In existing buildings, a platform lift (which must be enclosed where lift travel exceeds 2000 mm) may be acceptable.

#### **Platform lifts**

Platform lifts are an acceptable solution only in existing buildings and environments. They should be designed to allow independent use with clearly visible controls set at a height suitable for wheelchair users. Ideally they should be located adjacent to the stairs with which they are associated.

Platform lifts are restricted to a maximum travel distance of 2m where there is no lift enclosure and no floor penetration.

Where travel distance exceeds 2m there should be a lift enclosure. The platform size should be sufficient to accommodate large wheelchairs.

**NB:** Although a wheelchair stairlift may provide an acceptable solution in some existing buildings, they must not be used in new buildings.

Wheelchair stairlifts should not be used in external environments or as a sole means of access into a building.

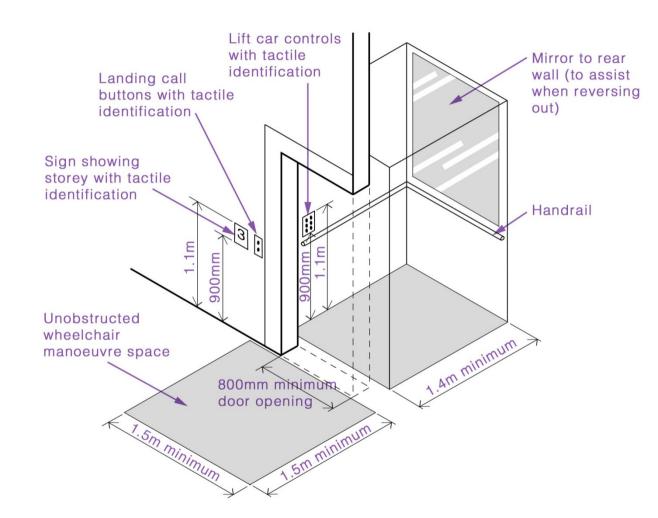


# **Passenger Lifts**

The size and number of lifts should cater for the anticipated number of people likely to use a building.

## Lifts should provide:

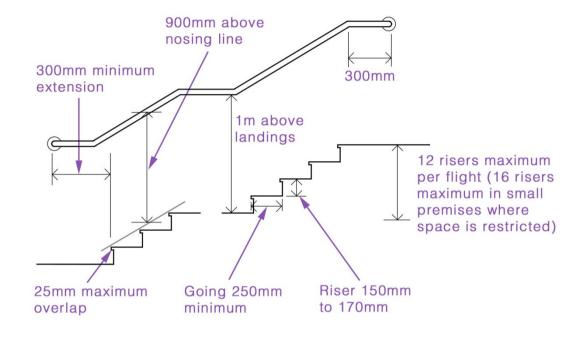
- minimum internal dimensions of 1100 mm wide by 1400 mm deep;
- increased internal dimensions of 2000 mm by 1400 mm where a high volume of people is anticipated;
- a minimum clear opening door width of 800 mm;
- an area of at least 1500 x 1500 mm in front of the door on every landing, including ground floor level;
- clearly distinguishable controls with tactile information, between 900 mm and 1100 mm above floor level;
- all specifications in accordance with Approved Document M of the Building Regulations.



#### Internal stairs

#### Stairs should have:

- a minimum level surface width of 1200 mm, with the width between handrails not less than 1000 mm;
- a level landing at the top and bottom of each flight across the width of the stair and at least 1200 mm long;
- no more than 12 risers between landings, but exceptionally no more then 16 risers in a small premises where the floor area is restricted;
- risers that are not open, between 150 mm and 170 mm in height, with a going of at least 250 mm, and the same dimensions throughout a flight or series of flights;



- a handrail height between 900 mm and 1000 mm from the pitch line, and between 900 mm and 1100 mm from a landing;
- handrails that end with a 90° turn to the ground or an adjacent wall;
- tread nosings that are flush, 55 mm wide, made from a permanent material that contrasts in colour and luminance with the standing and facing surfaces of all risers;

**NB:** Internal stairs should comply with Part M to the Building Regulations. (See also page 67 on steps.)

#### **Toilets and Changing Facilities**

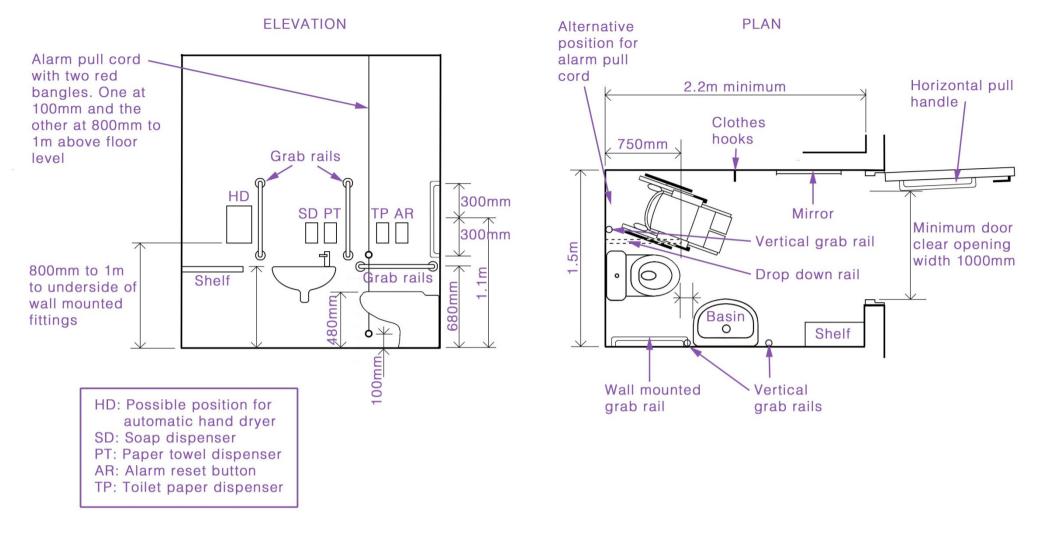
Toilet facilities should be easy and convenient to use by everyone. They should:

- be accessible to wheelchair users in accordance with BS 8300 and signed 'Unisex Accessible':
- not feature baby changing facilities within accessible cubicles (baby changing facilities should be provided elsewhere and not in areas kept for disabled people);
- make provision for at least one wheelchair accessible toilet in a building for use by customers, visitors and staff;
- where only one toilet is provided in a building, be wheelchair accessible;
- ensure have minimum internal dimensions of 2200 mm x 1500 mm and be otherwise designed and fitted in accordance with BS 8300;
- where more than one unisex compartment is proposed, have layouts which allow right and left-hand transfer from a wheelchair;
- in separate sex toilet blocks, feature a larger cubicle for ambulant disabled people in accordance with BS 8300.
- be no more than 40 m away at any given point in a building. Where a platform lift is used vertical travel to toilet accommodation is limited to one storey.

#### Additional good practice guidance:

- Automatic sliding or bi-folding doors may be considered where space is limited.
- The flushing mechanism should be positioned on the open or transfer side of the WC pan.
- Coat hooks should be fitted at 1200 mm and 1800 mm above floor level on back of door.
- There should be good use of colour and/or tonal contrast, e.g. fittings, with wall tiles and floor surfaces.
- The basin tap should ideally be a mixer tap with a lever handle, located on the side nearest the WC.
- It should be possible to reach the basin, tap(s), toilet paper, paper towels whilst seated on the WC.





**NB:** Accessible WCs should not feature a baby changing facility. The compartment should be kept free for use by disabled people, with separate baby changing facilities provided in a location that is accessible to male and female carers.

# **Changing Facilities**

Changing facilities provided for use by customers or visitors or by people working in a building, should be designed to be accessible. It is optional to provide a separate self-contained wheelchair accessible changing room or one that provides full access within a general facility.

# **Changing Places Toilets**

Standard accessible toilets do not meet the needs of all disabled people. Changing Places toilets provide extra features and more space to meet particular needs.



In line with BS 8300:2009+A1:2010 and the Department for Communities and Local Government (DCLG) strategic guidance 'Improving Public Access to Better Quality Toilets', the Council may require a Changing Places facility in key developments, including:

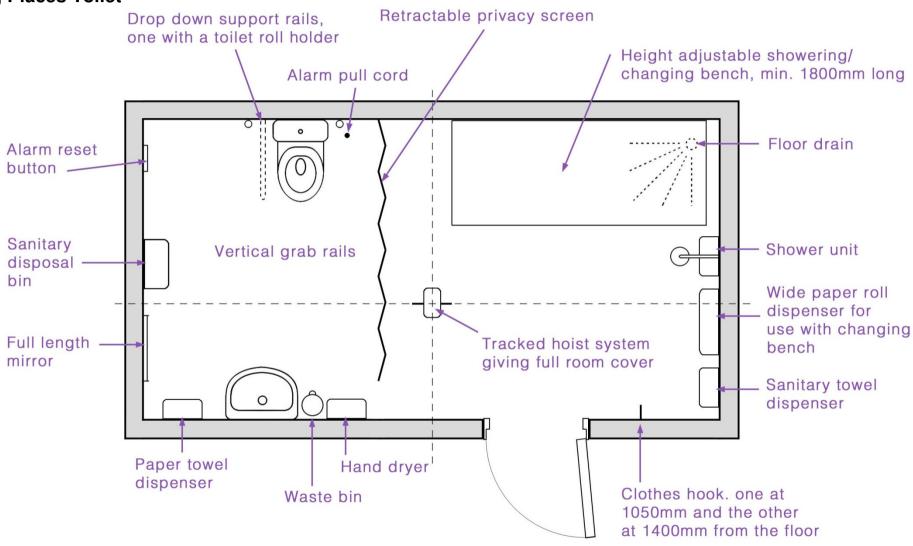
- major transport termini or interchanges, e.g. large railway stations, airports and motorway services;
- sport and leisure facilities, including large hotels;
- cultural centres, such as museums, concert halls and art galleries, stadia and large auditoria;
- shopping centres and shopmobility centres;
- key buildings within town centres, e.g. main public libraries;
- educational establishments, Health facilities, such as hospitals, health centres and community practices.

Each Changing Places toilet must provide a:

- height adjustable adult-sized changing bench;
- tracking hoist system (or mobile hoist if this is not possible);
- adequate space in the changing are for the disabled person and up to two assistants;
- screen or curtain to allow the disabled person and assistant(s) some privacy;
- wide tear off paper roll to cover the bench;
- large waste bin for disposable items;
- non-slip floor.



# **Changing Places Toilet**



# **Communication and Wayfinding**

Building design should provide a logical and straightforward layout that enables people to move around an environment or building intuitively, without the need for excessive signs. Good use of lighting, colour and tonal contrasting, clear and appropriate signage, hearing enhancement systems and acoustics need careful consideration when designing buildings.

# Lifts to all Levels Toilets Baby Care Shopmobility Varia

# **Signage**

The need for signs is minimised if a building is designed in a rational and simple manner. However, where signs are used they should be well placed, well lit and use clear, well contrasted, print. The use of symbols and tactile information will benefit many building users.

For further information, see the Sign Design Guide, a guide to inclusive signage, JMU Access Partnership and the Sign Design Society, 2004.

#### Lighting

Good lighting is essential for visibility and strong definition of objects. It allows people to identify potential hazards more easily, e.g. changes of level. Light sources should be positioned to avoid glare, reflection and strong shadows to aid sign language and lip reading.

Other points to consider:

- a lighting strategy should take account of all building users including disabled people;
- buildings should be designed to make maximum use of natural light;
- lighting should avoid creating glare and reflections, pools of bright light and stark shadows as these can mask hazards;
- surfaces should have a non-reflective surface e.g. table tops, handrails;
- lighting should be diffused, carefully positioned and not in the line of vision.

## **Hearing Enhancement Systems**

Hearing enhancement systems are used to amplify sounds and eliminate extraneous background noise in rooms and areas for meetings, lectures, performances, film and spectator stadia, as well as service counters.

Induction loops or infrared systems enable a person to receive sound from a microphone directly to their hearing aid.

Infrared systems are virtually immune from florescent lighting and air conditioning interference and are undoubtedly the preferred option for confidential conversations.

NB: For further technical advice or guidance contact: Action on Hearing Loss

# **Entry Phones**

Entry phones should be designed and located to be used be wheelchair users with hearing and visual impairments.

They should:

- feature a camera and video screen to facilitate two-way visual dialogues;
- be no higher than 1200 mm from the floor.

#### **Alarms**

Alarm systems should take into account the needs of people with hearing impairments through flashing beacons and/or in large or complex environments, liked to a dedicated paging system.

### **Storage Facilities**

Storage cupboards, shelves and lockers should be designed to allow their easy use by disabled people, including wheelchair users. Consideration should be given to height and keeping the need for fine manual dexterity to a minimum.

#### Refreshment areas

Restaurants and cafeterias should be accessible with split-level areas linked with ramps, adequate circulation space, a choice of wheelchair seating locations and accessible self-service facilities.

# **Controls and equipment**

All controls, switches, and sockets should be easy to operate, and at a constant height and location throughout a building.

Card and coin operated devices (such as automatic teller machines (ATMs) and vending machines) should be designed and located to allow easy, independent use.

#### They should:

- positioned so that display screens can be seen from a wheelchair height;
- feature buttons that are well spaced, colour contrasted and tactile characters;
- be no higher than 1300 mm (preferably 1200 mm);
- a clear level area of 2000 mm x 2000 mm in front of a machine.

# **Means of Escape**

Safe, efficient egress depends upon a combination of building design and management procedures. A well-designed, accessible building should allow independent egress for all building users and should:

- feature (in multi-storey buildings) at least one fire rated evacuation lift within a refuge area. The lift(s) should be designed and integrated to support Horizontal Evacuation and:
- i. must be clearly identifiable and have appropriate signage;
- ii. should be situated within a protected enclosure (refuge area doors minimum fire resistance 305 minutes);
- iii. should consist of lift-well and protected lobby at every level
- iv. should be provided with a switch marked "Evacuation Lift" at Exit level. (This switch should cause the lift to return to the final exit & then become controllable.) Alternatively, the lift could be interfaced to the fire alarm system, returning to ground when the alarm sounds.
- v. must feature an exclusive primary electricity supply from a sub-main circuit.
- vi. must have alternative back-up power that should start automatically in an emergency to prevent potential interruption to the electricity supply. The cables should be separate from those of the primary supply and routed through an area of low fire risk (one hour minimum fire protection).
- vii. both the main and alternative power supplies must have independent isolators that are clearly identifiable. The isolators should be clearly labeled to include the location of the other power supply.
- viii. must connect to any electrical sub-station, distribution board, generator, hydraulic pump or other apparatus that is fire protected for a period not less than that of the lift shaft.
- ix. have a minimum load capacity of not less than 400 kg.
- x. should have doors that have a minimum of 30 minutes fire resistance.

- ensure a minimum sized refuge of 900 mm x 1400 mm on every floor (refuges should be clearly sign posted and their purpose made known);
- provide an Emergency Voice Communication System (EVC), in compliance with BS5839-9 2003 in all refuge areas and in various locations throughout a building;
- provide a video surveillance for all refuge areas;
- ensure emergency lighting in accordance with BS 5266;
- ensure exit doors provide a level threshold and open on to a suitable level area;
- refer to BS9999:2008, and Approved Document B of the Building Regulations.



**NB:** manual methods of evacuation (e.g. EVAC chairs) should be avoided. They are slow, typically cumbersome, and rely on a non-disabled person prolonging their stay in a building that is potentially dangerous.

# A1 Retail (includes Supermarkets)

#### **Counters and Checkouts**

- Counters should be accessible to wheelchair users as staff and customers.
- Shop checkouts should allow wheelchair access and at least one in every shop should be 900 mm wide.
- The maximum height of counters, desks, and shop checkouts should at least in part, be a maximum of 800 mm to allow easy use by people in wheelchairs.
- Till displays should be positioned at a height suitable for wheelchair users and the installations of induction loops may also be appropriate.

#### **Aisles and Shelves**

- There should be sufficient space between display shelves for a wheelchair user to turn. Aisles should have a minimum width of 850 mm, or 1200 mm in supermarkets.
- Wherever practicable, shelving should be positioned where disabled people can reach it independently. The most accessible shelf heights to reach from a seated position are between 665 mm and 1160 mm above floor level.
- In retail stores with changing facilities, at least one changing room should be designed to be suitable for an ambulant disabled person or a wheelchair user plus assistant and have a minimum floor area of 1.5 m x 1.5 m.

#### **Shopfronts**

New shop fronts should be accessible to disabled people. Changes of level at entrances should be avoided but where unavoidable, a ramp should be provided in accordance with the guidance in this document. In the case of existing buildings, particularly where a new shop front is proposed, the following guidance should be followed:

- Shops that have a change in level of under 180 mm from pavement to shop floor surface can usually incorporate ramped access into or within the shop. Exceptions preventing a ramped area to be created may include the presence of structural beams, floor slabs, socket outlets and basement lights.
- Entrance doors should be accessible to all particularly wheelchair users and people with limited manual dexterity. A minimum effective clear width of 1000 mm in new buildings and 800mm in existing buildings should be achieved where a new shop front or alterations to a shop front are proposed.

**NB:** Further detail and design guidance is given in the 'Entrances' section of this document and in the Hillingdon Design and Accessibility Statement (HDAS) Shop fronts SPD.

# A3 Food and Drink

- Restaurants, cafeterias and bars should be designed to be accessible. Any split-level areas should be linked by ramps, with adequate circulation space a choice of wheelchair seating locations and wheelchair accessible self-service facilities provided.
- Entrances should be designed to allow easy access for wheelchair users and ambulant disabled people, (see guidance on 'Entrances' Page 77 & 78).
- Bars and self-service facilities should provide continuous counter suitable for wheelchair users, preferably 850 mm high.
- Fixed seating should be avoided.

**NB:** All public areas, including WC accommodation, public telephones and external terraces should be accessible and designed in accordance with guidance in this document.

# **Sports and Leisure Venues**

- Facilities should be provided at sports and leisure venues to allow disabled people to participate in all the available activities as spectators, participants and members of staff.
- Disabled people should have access to the full range of seating options and be able to sit alongside disabled or other companions. Routes should be accessible and handrails always provided to ramps and steps. Where turnstiles are installed, a by-pass gate of 800mm should be provided for wheelchair users and ambulant disabled people.
- Spectator seating should be in line with the guidance given in 'cinemas, theatres and other places of assembly'. (See page 94).
- Toilets, bars and other facilities within the building should also be fully accessible. Changing room facilities should be provided in accordance with the guidance given on pages 88-89.



- Induction loops, infrared systems or other suitable communication devices should be provided where appropriate.
- A 'Changing Places' facility should be provided to allow people with complex personal care requirements to participate equally.
- A hoist or ramp should be provided to facilitate access to swimming pools.

Detailed guidance on the design of sports facilities is given in Accessible Sports Facilities, Sport England 2010 (download from www.sportengland.org )

# **Cinemas, Theatres and Other Places of Assembly**

All assembly areas should allow access and use by disabled people as members of an audience, participants and members of staff. Disabled people should have access to the full range of seating options and be able to sit alongside disabled or other companions.

To be accessible, spectator seating should:

- provide a wheelchair space for every fifty seats provided and, in some areas, two wheelchair spaces side by side;
- provide clear visibility lines for wheelchair users without obstructing the view of others;
- otherwise accord with BS 8300;
- · accord with Document M of Building Regulations.

Box office counters should be accessible for wheelchair users and other disabled people, (see Page 81 for guidance on counter design).

# **Hotels, Motels and Student Accommodation**

In all building types, (including hotels, motels, nursing and residential homes, university and college halls of residence, and relatives accommodation in hospitals), a proportion of sleeping accommodation should be designed for use by disabled people.

In accordance with London Plan policy 4.5, an Accessibility Management Plan that demonstrates the highest standards of accessibility and inclusion should accompany development applications proposing visitor accommodation.

#### Accessible accommodation should:

- be located close to lifts on upper floors and close to reception on the ground floor;
- · be located along accessible routes;
- be situated so that they have equal access to views enjoyed from standard bedrooms;
- feature an en-suite bathroom;
- · cater for a wide range of disabilities;
- provide some rooms with a connecting door to an adjoining room for use by someone assisting;
- allow manoeuvring space for a mobile hoist (where ceiling hoists are not installed);
- ensure walls are capable of supporting the required fittings, e.g. grab rails and drop down support rails.

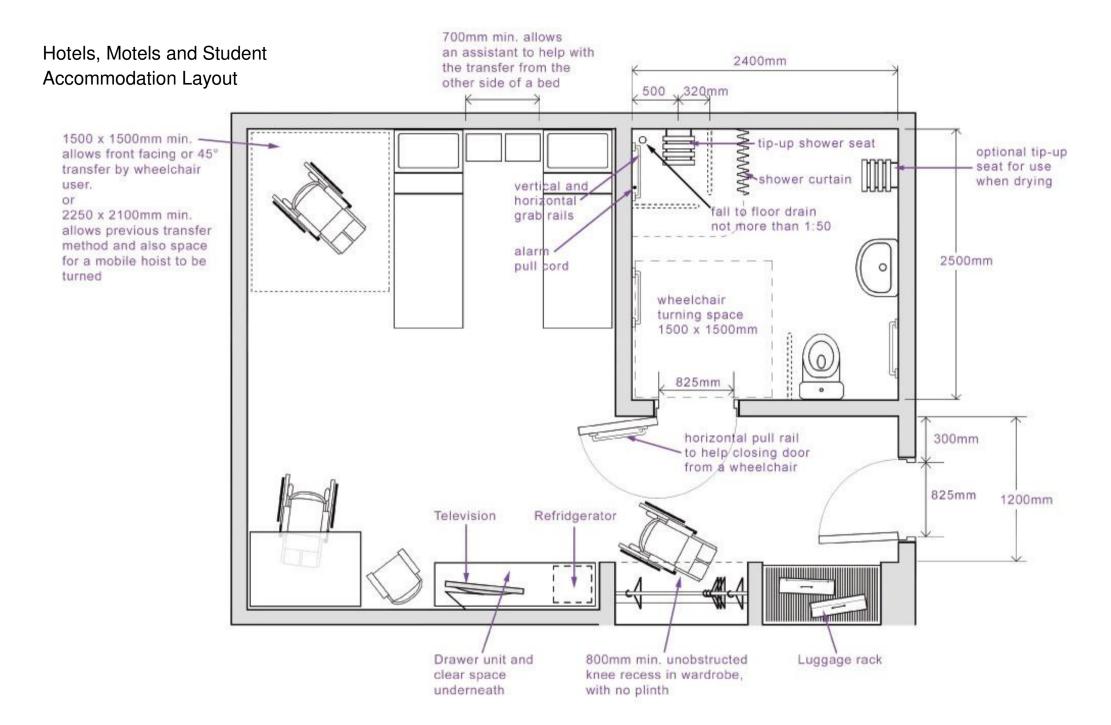
In line with BS 8300: 2009, the total number of accessible rooms as a percentage should be:

5% without a fixed tracked-hoist system;

- 5% with a fixed tacked-hoist system (or similar system giving the same degree of convenience and safety);
- 5% capable of being adapted in the future to accessibility.

Overnight accommodation should ensure a mixture of bathtub and continental style level access shower (Wet Room) en-suite rooms.

**NB:** The requirements for accessible accommodation applies to new build, conversions and refurbishments. Reference should be made to all relevant sections of this document and compliance with BS 8300:2009 is also required.



# **Educational and Cultural Buildings**

Educational and social interaction is fundamental to the learning and development of everyone. In recent years, disabled people have been empowered to learn and be part of a total education system where the environment is barrier free and discrimination eliminated.

All learning establishments, ranging from nurseries to universities, should follow the guidance of BS 8300 and should:

- provide a level of gently sloping approach and step free access to all buildings via a common entrance;
- promote barrier free movement to and around all areas; including all classrooms, lecture theatres, refectory and student accommodation;
- allow students to participate inclusively through assistive technology and built-in flexibility to support those with diverse access needs, e.g. height adjustable work-benches, hearing enhancement systems;
- ensure a building is designed to encourage social interaction by all students, including refreshment, and quiet study places and recreational areas;
- provide soundproof study areas e.g. in the library, to allow people with a visual impairment to work with an assistant reading aloud.

**NB:** In accordance with BS 9999, the Council will expect all development proposals to include a comprehensive fire emergency plan that demonstrates how disabled people will be safeguarded from fire and enabled to evacuate independently.

# **Conservation and Historic Buildings**

There are particular issues that should be considered when applying the guidance in this document to historic buildings, Conservation Areas and in Areas of Special Local Character.

In most cases it is possible to reconcile the interests of conservation and achieve suitable access for disabled people without compromising the special architectural interest of a building or area. Where there is a conflict between conservation and access, the Access Statement can be used to explain why a generic solution is impracticable or undesirable, and propose a bespoke solution or means of substituting physical access. The Access Statement should also detail any consultation taken with local access groups, access and conservation officers, or other bodies such as English Heritage.

**NB:** See also Planning Policy Guidance Note 15 Planning and Historic Environment and Easy Access to Historic Properties. Importantly, heritage assets must not be unduly compromised by access improvements.

# **Access to Parks and Open Spaces**

Access to parks, open spaces and countryside should ensure:

- physical access for everyone, free from barriers e.g. stiles, including wheelchair users;
- appropriate surfaces and gradients where provided;
- adequate seating along extended walking routes;
- facilities such as toilets, picnic tables and observation hides are accessible:
- gates can be used by wheelchair users;
- signs are located to be visible, appropriate (not used excessively) and easily understood;
- good information using clear print guidelines and as appropriate, available in alternative formats.



**NB:** For further information see 'A Good Practice Guide to Disabled People's Access in the Countryside'; 'Easy Access to Historic Landscapes, English Heritage, 2005" visit: <a href="https://www.english-heritage.org.uk/">www.english-heritage.org.uk/</a>. Also see the Mayor of London's SPG on 'Shaping Neighbourhoods Play and Informal Recreation', September 2012.

#### **Design and Access Statements**

#### What an Access Statement should include

For Minor and Major Planning Applications.
To include all new dwellings, including conversions to flats (except householder application). The statement should:

- Explain how the proposal complies with local development policies.
- Explain how issues affecting public access to and within the proposed building or space, such as entrances, horizontal/vertical circulation, WC's and emergency escape, etc, are addressed.
  - Demonstrate precisely how the proposal meets Lifetime Home Standards the specifications of M4(2) and M4(3) (as relevant) Optional Technical Standards defined in Approved Document M to the Building Regulations.

# For Major Planning Applications

The purpose of the Access Statement is to outline how a project has been designed to deliver an inclusive environment for all to use. The statement should:

- Explain the philosophy and approach to inclusive design, including how the design has come about and what it hopes to achieve.
- List the planning sources of advice and technical guidance used, as well as pre-planning consultations e.g. with the Council's Access Officer.
- Provide details of any professional advice such as access audits or design appraisals.
- Where the design deviates from recognised sources of good practice, demonstrate why and what alternative features are included to achieve access and inclusion.
- Give details of all management and maintenance practices necessary to ensure the building and/or space remains accessible throughout its lifetime.
- In the case of existing buildings, particularly Listed Buildings and those in Conservation Areas, identify the constraints imposed by the existing structure and to propose compensatory measures where full accessibility proves to be impracticable or unreasonable.

# The statement should demonstrate how the following issues have been addressed in an inclusive manner:

- Approaches to and around the site, including transport links, car parking, setting down points, and the location of dropped kerbs.
- All entrances, including visibility.
- General horizontal/vertical circulation and layout arrangements.
- Appropriate use of surface materials.
- Facilities within the building, including WC provision.
- Way-finding and signage.
- Reliable and independent means of escape for those unable to use stairs.
- Developers of residential schemes will need to include details demonstrating that the development complies with accessible housing standards as set out in Part M to the Building Regulations.

More detailed advice on Design & Access Statements can be found on the Council's website: http://www.hillingdon.gov.uk

The applicant would also be advised at this stage to consider the implications of the Equality Act 2010 when designing the scheme: to ensure the proposal and its management work within the spirit of the Act and mitigate against any challenges. Useful references include:

- BS 8300:2009 'Design of buildings and their approaches to meet the needs of disabled people' Code of Practice (BSI).
- Inclusive Mobility A Guide to best practice on Access to Pedestrian and Transport infrastructure, 2002 (Dept for Transport).
- BS 9999:2008 'Code of practice for fire safety in the design, management and use of buildings'.
- English Heritage 'Easy Access to Historic Buildings' June 2015
- Accessible Sports Facilities, Sport England 2010

# **Design and Access Statements**

# **Examples of a Design and Access Statement**

The content of an Access Statement will depend upon the size, nature and complexity of the proposed development. The following examples illustrate this.

### 1. Application for an extension to a Restaurant

**Proposal:** This application is for an extension to the side of a restaurant. The proposal includes a new entrance and the re-location and improvement of the existing sub-standard wheelchair accessible WC.

- The additional new entrance will be step-free. (Currently access can only be gained via a flight of three steps at the front of the restaurant). Access to this entrance will be via a slight slope with an approximate 1:30 gradient. This pathway surface will be slip resistant.
- The new double entrance doors achieve a total width of 1700mm –
   as such suitable for wheelchair users. The doors will be fully glazed –
   as such there will be permanent and visible manifestation to comply
   with Part M of the Building Regulations.
- The new entrance will be well lit and there will be good directional signage from the front main entrance and from the car park.
- A new wheelchair accessible WC is proposed it will comply with Part M of the Building Regulations in terms of size and layout, e.g. 2200mmm x 1500mm. Access to it will include a new 1200mm wide corridor.

**Sources of Reference:** HDAS: Accessible Hillingdon; Good Loo Guide,

Centre for Accessible Environments and

Council's Access Officer

Further guidance and advice may be obtained at: www.pas.gov.uk/pas/aio/36888

## 2. Application for an extension to a Restaurant in a Public House

This application is for a small extension to a PH. The proposed extension will include a wheelchair accessible WC as well as additional floor space for the PH. Current access to the PH is unaffected (it does provide level access) and the proposed wheelchair accessible WC will comply to the standards in Part M of the Building Regulations.

## 3. Application for a new shopfront and internal alterations

**Proposal and background:** This application is for a new shopfront together with internal alterations to the shop – internally ramping the area around the entrance and the provision of a new lift to the lower ground sales floor.

- Currently this large chain store can only be accessed via a large step and narrow doorway. In addition, the existing two sales floors only provide stepped access between each floor.
- The new shopfront will create a level threshold at the entrance and will comply with planning requirements, as well as the Council's 'Accessible Hillingdon', Supplementary Planning Document.
- An automatic sliding door will provide easy entry for everyone.
- The area beyond the entrance level landing will gently slope at a gradient of 1:25 up to the ground floor sales area. The 1:25 gradient does not require handrails as the slope is shallower than 1:20.
- A new 8 person size lift (1.1m x1.4m) will provide a step free access route to the lower ground sales floor.

#### Sources of reference:

- Hillingdon Design and Statement:
- Accessible Hillingdon
- Part M of the Building Regulations.
- Council Access Officer (Planning & Community Services)

## **Appendix 1 - Relevant Policies**

#### **UNITARY DEVELOPMENT PLAN – SAVED POLICIES (SEPTEMBER 2007)**

A 27th September 2012 Cabinet report on the Local Plan recommended that the Council should adopt Part 1, and agree that the majority of the UDP Saved Policies 2007 should, for the present, serve as Part 2 of the Local Plan – until a new Part 2 (incorporating detailed development management policies) can be prepared and brought forward.

# HILLINGDON LOCAL PLAN: PART 1 – STRATEGIC POLICIES (FORMER CORE STRATEGY) – LONDON BOROUGH OF HILLINGDON, NOVEMBER 2012

Part 1 has an overarching strategic objective at its beginning:

Strategic Objective SO6: Promote social inclusion through equality of opportunity and equality of access to social, educational, health, employment, recreational, green space and cultural facilities for all in the borough, particularly for residents living in areas of identified need.

Topic sections and policies then follow, in particular regarding accessibility at paragraphs 7.13-7.15:

- 7.13 The Council will seek to provide robust neighbourhoods which are attractive and capable of being used for many purposes, by different people and with the potential for change and adaptation. The Borough recognises that 15% of the population have an impairment, mobility or otherwise, and provision should be made to allow equal, easy and dignified access to buildings, places and spaces. Furthermore, the Council recognises that neighbourhoods should ensure adequate accessibility to housing, employment and public amenities to permit equal opportunities for the whole community (see Policy T4).
- 7.14 Accessibility for disabled people is legislated under the Disability Discrimination Act (DDA) 1995 (amendment) Regulations 2003, and is included within the London Plan. The requirement is for new and existing buildings to be accessible. New housing should be designed to ensure that it can easily be modified to meet the needs of people with disabilities. It should also incorporate the principles of "Lifetime Homes" so that as people become less mobile it continues to meet their needs. The percentage of local authority buildings suitable for and accessible by disabled people is measured using BVPI 156. At present 15.2% of buildings in the borough are accessible (London Development Database, 2008/9). Comparison to Greater London (21.5%) and the national figure (36.5%) shows that Hillingdon,

7.15 The Council will seek to encourage inclusive access at the neighbourhood level ensuring that places of work and leisure, streets, neighbourhoods, parks and open spaces are designed to meet the needs of the community at all stages of people's lives in line with the emerging replacement London Plan.

Policy BE1: Built Environment this replaces UDP policy Pt 1.16 and notes at sub-sections 3 and 4 that all new developments should:

- be designed to include "Lifetime Homes" principles so that they can be readily adapted to meet the needs of those with disabilities and the elderly, 10% of these should be wheelchair accessible or easily adaptable to wheelchair accessibility encouraging places of work and leisure, streets, neighbourhoods, parks and open spaces to be designed to meet the needs of the community at all stages of people's lives;
- 4) in the case of 10 dwellings or over, achieve a Building for Life assessment rating of silver as a minimum.

Policy CI1: Community Infrastructure Provision notes at sub-section 9 that the Council will ensure that community and social infrastructure is provided to cater for the needs of the existing community and future populations by:

9) providing facilities and services that are accessible and inclusive to all potential users regardless of age, ability, gender or socioeconomic status.

## Hillingdon Local Plan: Part 2

As explained above, the following existing policies from the UDP Saved Policies 2007 are currently being used as Part 2 of the Local Plan and cover accessibility issues: AM13 / AM15 / AM16 / OL19 / LE1 / R16.

Accessible Hillingdon supplements the UDP policies set out below:

## Policy AM13

The Local Planning Authority will seek to ensure that proposals for development increase ease and spontaneity of movement for elderly people, the frail and people with disabilities by including where appropriate:

- (i) improved Dial-a-Ride and Mobility Bus services together with suitable means for people with disabilities and people dependent on wheelchairs for mobility to use public transport;
- (ii) shopmobility schemes;
- (iii) adequate and convenient parking spaces for people with disabilities, especially around shopping areas and entertainment and recreation facilities;
- (iv) measures to incorporate the needs of people with disabilities into road, footway, parking and pedestrianisation schemes; including benches, public lavatories, footpath surfaces, dropped kerbs and textured crossings, with proper regard to the siting and visibility of street furniture.

#### Policy AM15

All car parks provided for new development shall contain conveniently located reserved spaces for disabled persons in accordance with the council's adopted car parking standards, as set out in Annex 1.

#### Policy AM16

In the context of the Council's adopted parking standards the Local Planning Authority will, where appropriate, seek to make parking spaces (including disabled persons' spaces) provided as part of commercial development schemes in town centres and other areas to be available for use by the public.

## Policy OL19

The Council will seek to improve access to and use of the countryside by all sections of the community, including improving access for wheelchairs and people with other forms of disability.

## Policy LE1

All proposals for industry (b 2), warehousing (b8) and business (b1) development will be assessed by taking into account other policies of this plan and, where appropriate, the following considerations:-

- (i) whether the proposal conflicts with the local planning authority's overall objective of securing the development or regeneration of an area;
- (ii) outstanding unimplemented planning permissions, development under construction and vacant floor space elsewhere in the plan area;
- (iii) the availability and capacity of public transport facilities to serve proposals for employment intensive uses;
- (iv) the ability of the road system, as existing or taking due account of committed improvements, to accommodate at normal peak hours the additional traffic generated;
- (v) whether any proposal for ma jor development will create unacceptable demands for other land to be developed (for example, to provide for new ho using or community facilities);
- (vi) the provision for access by people with disabilities and other accessible facilities both to and within buildings.

### Policy R16

The local planning authority will only permit proposals for shops, business uses, services, community and other facilities open to the public if they include adequate provision for accessibility, in particular those of elderly people, people with disabilities, women and children. Where appropriate to the scale and nature of the development proposed, new development should include:-

- (i) safe and convenient access by public and private transport and on foot;
- (ii) safe and convenient means of physical access to all floors;
- (iii) facilities for child and baby care accessible for male and female carers; and toilets accessible to people with disabilities; and have regard to the measures set out in policies AM13 (i) (iv) and R17.

#### **2016 LONDON PLAN (JULY 2011)**

## Policy 3.1

Ensuring Equal Life Chances for All

#### **Strategic**

A The Mayor is committed to ensuring equal life chances for all Londoners. Meeting the needs and expanding opportunities for all Londoners – and where appropriate, addressing the barriers to meeting the needs of particular groups and communities – is key to tackling the huge issue of inequality across London.

## **Planning decisions**

B Development proposals should protect and enhance facilities and services that meet the needs of particular groups and communities. Proposals involving loss of these facilities without adequate justification or provision for replacement should be resisted.

# Policy 3.5

Quality and Design of Housing Developments

### Strategic

A Housing developments should be of the highest quality internally, externally and in relation to their context and to the wider environment, taking account of strategic policies in this Plan to protect and enhance London's residential environment and attractiveness as a place to live. Boroughs may in their LDFs introduce a presumption against

development on back gardens or other private residential gardens where this can be locally justified.

## Planning decisions and LDF preparation

- B The design of all new housing developments should enhance the quality of local places, taking into account physical context; local character; density; tenure and land use mix; and relationships with, and provision of, public, communal and open spaces, taking particular account of the needs of children and older people
- C LDFs should incorporate minimum space standards that generally conform with Table 3.3. The Mayor will, and boroughs should, seek to ensure that new development reflects these standards. The design of all new dwellings should also take account of factors relating to 'arrival' at the building and the 'home as a place of retreat'. New homes should have adequately sized rooms and convenient and efficient room layouts which are functional and fit for purpose, meet the changing needs of Londoners over their lifetimes, address climate change adaptation and mitigation and social inclusion objectives and should be conceived and developed through an effective design process., have adequately sized rooms and convenient and efficient room layouts, meet the changing needs of Londoners over their lifetimes, address climate change adaptation and mitigation and social inclusion objectives and should be conceived and developed through an effective design process
- D Development proposals which compromise the delivery of elements of this policy may be permitted if they are demonstrably of exemplary design and contribute to achievement of other objectives of this Plan.
- E The Mayor will provide guidance on implementation of this policy that is relevant to all tenures.

## Policy 3.8

**Housing Choice** 

## **Strategic**

A Londoners should have a genuine choice of homes that they can afford and which meet their requirements for different sizes and types of dwellings in the highest quality environments.

# **LDF** preparation and planning decisions

- B Taking account of housing requirements identified at regional, sub-regional and local levels, boroughs should work with the Mayor and local communities to identify the range of needs likely to arise within their areas and ensure that:
- a new developments offer a range of housing choices, in terms of the mix of housing sizes and types, taking account of the housing requirements of different groups and the changing roles of different sectors, including the private rented sector, in meeting these
- b provision of affordable family housing is addressed as a strategic priority in LDF policies
- c all new housing is built to 'The Lifetime Homes' standards
- d ten per cent of new housing is designed to be wheelchair accessible, or easily adaptable for residents who are wheelchair users
- e account is taken of the changing age structure of London's population and, in particular, the varied needs of older Londoners, including for supported and affordable provision
- f account is taken of the needs of particular communities with large families
- g other supported housing needs are identified authoritatively and co-ordinated action is taken to address them in LDF and other relevant plans and strategies

h strategic and local requirements for student housing meeting a demonstrable need are addressed by working closely with stakeholders in higher and further education and without compromising capacity for conventional homes.

i the accommodation requirements of gypsies and travellers (including travelling show people) are identified and addressed in line with national policy, in coordination with neighbouring boroughs and districts as appropriate.

#### Policy3.8

#### Strategic

A Londoners should have a genuine choice of homes that they can afford and which meet their requirements for different sizes and types of dwellings in the highest quality environments.

## LDF preparation and planning decisions

B To inform local application of Policy 3.3 on housing supply and taking account of housing requirements identified at regional, sub-regional and local levels, boroughs should work with the Mayor and local communities to identify the range of needs likely to arise within their areas and ensure that:

<u>a</u> new developments offer a range of housing choices, in terms of the mix of housing sizes and types, taking account of the housing requirements of different groups and the changing roles of different sectors in meeting these

at the planning system provides positive and practical support to sustain the contribution of the Private Rented Sector (PRS) in addressing housing needs and increasing housing delivery

b provision of affordable family housing is addressed as a strategic priority in LDF policies

c ninety percent of new housing[1]meets Building Regulation requirement M4 (2) 'accessible and adaptable dwellings'

<u>d</u> ten per cent of new housing[2] meets Building Regulation requirement M4 (3) 'wheelchair user dwellings', i.e. is designed to be wheelchair accessible, or easily adaptable for residents who are wheelchair users

<u>e</u> account is taken of the changing age structure of London's population and, in particular, the varied needs of older Londoners, including for supported and affordable provision

f account is taken of the needs of particular communities with large families

g other supported housing needs are identified authoritatively and co-ordinated action is taken to address them in LDF and other relevant plans and strategies

h strategic and local requirements for student housing meeting a demonstrable need are addressed by working closely with stakeholders in higher and further education and without compromising capacity for conventional homes.

<u>i</u> the accommodation requirements of gypsies and travellers (including travelling show people) are identified and addressed, with sites identified in line with national policy, in coordination with neighbouring boroughs and districts as appropriate.

i appropriate provision is made for the accommodation of service families and custom build, having regard to local need.

# Policy 4.5

London's visitor infrastructure

A The Mayor will, and boroughs and relevant stakeholders should:

<u>a support London's visitor economy and stimulate its growth, taking into account the needs of business as well</u> <u>as leisure visitors and seeking to improve the range and quality of provision especially in outer London</u>

<u>b seek to achieve 40,000 net additional hotel bedrooms by 2036, of which at least 10 per cent[1] should be wheelchair accessible</u>

## c ensure that new visitor accommodation is in appropriate locations:

<u>beyond the Central Activities Zone (CAZ) it should be focussed in town centres and opportunity and</u>
<u>intensification areas, where there is good public transport access to central London and international and national</u>
<u>transport termini</u>

within the CAZ strategically important hotel provision should be focussed on its opportunity areas, with smaller scale provision in CAZ fringe locations with good public transport. Further intensification of provision in areas of existing concentration should be resisted, except where this will not compromise local amenity or the balance of local land uses

It may be appropriate to locate visitor accommodation related to major visitor attractions of sub-regional or greater significance in locations other than those set out in this paragraph, but only where it can be shown that no suitable site in one of these locations exists and that there is a clear link in scale, nature and location (particularly demonstrating sufficient proximity to minimise the overall need to travel and maximise walking and cycling) between the accommodation and the attraction being served.

<u>d</u> support provision for business visitors, including high quality, large scale convention facilities in or around the CAZ

e recognise the need for apart-hotels in the context of the broader policies of this Plan.

f promote, enhance and protect the special characteristics of major clusters of visitor attractions including those identified in Strategic Cultural Areas in Map 4.2.

**Strategic** 

- A The Mayor will, and boroughs and relevant stakeholders should:
  - a support London's visitor economy and stimulate its growth, taking into account the needs of business as well as leisure visitors and seeking to improve the range and quality of provision especially in outer London
  - b seek to achieve 40,000 net additional hotel bedrooms by 2031, of which at least 10 per cent1 should be wheelchair accessible
  - c ensure that new visitor accommodation is in appropriate locations...
  - d support provision for business visitors, including high quality, large scale convention facilities in or around the CAZ
  - e recognise the need for apart-hotels in the context of the broader policies of this Plan.
  - f promote, enhance and protect the special characteristics of major clusters of visitor attractions including those identified in Strategic Cultural Areas in Map 4.2.

# **Planning decisions**

- **B** Developments should:
  - a contribute towards the hotel provision target and ensure that at least 10 per cent of bedrooms are wheelchair accessible
  - b be consistent with the strategic location principles set out above
  - c not result in the loss of strategically important hotel capacity2

# **LDF** preparation

- C LDFs should:
  - a seek to ensure that all new visitor accommodation meets the highest standards of accessibility and inclusion and encourage applicants to submit an accessibility management plan with their proposals
  - b promote high quality design of new visitor accommodation so that it may be accredited by the National Quality Assurance Scheme

- c identify opportunities for renovation of the existing visitor accommodation stock
- d promote and facilitate development of a range of visitor accommodation, such as hotels, bed and breakfast accommodation, self-catering facilities, youth hostels and camping and caravan sites
- e support and encourage development of good quality budget category hotels, especially in outer London.

## Policy 4.6

Support For And Enhancement Of Arts, Culture, Sport And Entertainment

## **Strategic**

A The Mayor will and boroughs and other stakeholders should support the continued success of London's diverse range of arts, cultural, professional sporting and entertainment enterprises and the cultural, social and economic benefits that they offer to its residents, workers and visitors.

## **Planning decisions**

- B Developments should:
  - a fulfil the sequential approach and where necessary, complete an impact assessment (see Policy 4.7)
  - b be located on sites where there is good existing or planned access by public transport
  - c be accessible to all sections of the community, including disabled and older people
  - d address deficiencies in facilities and provide a cultural focus to foster more sustainable local communities.

#### Policy 4.12

Improving Opportunities For All

## **Strategic**

A Working with strategic partners, principally the London Enterprise Partnership, the Mayor will provide the spatial context to co-ordinate the range of national and local initiatives necessary to improve employment opportunities for Londoners, to remove barriers to employment and progression and to tackle low participation in the labour market.

#### Planning decisions

B Strategic development proposals should support local employment, skills development and training opportunities.

## Policy 7.1

Lifetime neighbourhoods

#### **Strategic**

A In their neighbourhoods, people should have a good quality environment in an active and supportive local community based on the lifetime neighbourhoods principles set out in paragraph 7.4A.

## Planning decisions

<u>B Development should be designed so that the layout, tenure and mix of uses interface with surrounding land and improve people's access to social and community infrastructure (including green spaces), the Blue Ribbon Network, local shops, employment and training opportunities, commercial services and public transport.</u>

C Development should enable people to live healthy, active lives; should maximize the opportunity for community diversity, inclusion and cohesion; and should contribute to people's sense of place, safety and security. Places of work and leisure, streets, neighbourhoods, parks and open spaces should be designed to meet the needs of the community at all stages of people's lives, and should meet the principles of lifetime neighbourhoods.

<u>D</u> The design of new buildings and the spaces they create should help reinforce or enhance the character, legibility, permeability, and accessibility of the neighbourhood.

E The policies in this chapter provide the context within which the targets set out in other chapters of this Plan should be met.

## LDF preparation

F Boroughs should plan across services to ensure the nature and mix of existing and planned infrastructure and services are complementary and meet the needs of existing and new communities. Cross-borough and/or sub-regional working is encouraged, where appropriate.

G Boroughs should work with and support their local communities to set goals or priorities for their neighbourhoods and strategies for achieving them through neighbourhood planning mechanisms.

# Policy 7.1

Building London's Neighbourhoods and Communities

In their neighbourhoods, people should have a good quality environment in an active and supportive local community with the best possible access to services infrastructure and public transport to wider London. Their neighbourhoods should also provide a character that is easy to understand and relate to.

Planning decisions

- B. Development should be designed so that the layout, tenure, and mix of uses interface with surrounding land and improve people's access to social and community infrastructure (including green spaces), the Blue Ribbon Network, local shops, employment opportunities, commercial services and public transport.
- C. Development should enable people to live healthy, active lives; should maximize the opportunity for community diversity, inclusion and cohesion; and should contribute to people's sense of place, safety and security. Places of work and leisure, streets, neighbourhoods, parks and open spaces should be designed to meet the needs of the community at all stages of people's lives, and should meet the principles of lifetime neighbourhoods.
- D. The design of new buildings and the spaces they create should help reinforce or enhance the character, legibility, permeability and accessibility of the neighbourhood.

## Policy 7.2

An Inclusive Environment

#### **Strategic**

- A The Mayor will require all new development in London to achieve the highest standards of accessible and inclusive design and supports the principles of inclusive design which seek to ensure that developments:
  - a can be used safely, easily and with dignity by all regardless of disability, age, gender, ethnicity or economic circumstances
  - b are convenient and welcoming with no disabling barriers, so everyone can use them independently without undue effort, separation or special treatment
  - c are flexible and responsive taking account of what different people say they need and want, so people can use them in different ways
  - d are realistic, offering more than one solution to help balance everyone's needs, recognising that one solution may not work for all.
- B The Mayor will assist boroughs and other agencies in implementing accessible and inclusive design in all development proposals by updating the advice and guidance in the Supplementary Planning Guidance 'Accessible London: Achieving an inclusive environment'; by continuing to contribute to the development of national technical access standards and by supporting training and professional development programmes.

#### Planning decisions

C Design and access statements submitted with development proposals should explain how, following engagement with relevant user groups, the principles of inclusive design, including the specific needs of older and disabled people, have been integrated into the proposed development, whether relevant best practice standards such as British Standard BS 8300:2009 have been complied with, and how inclusion will be maintained and managed.

#### LDF preparation

D Boroughs should develop detailed policies and proposals in consultation with user groups that ensure the physical environment can meet the highest standards of accessibility and inclusion and that the principles of inclusive design are adopted at the earliest stages of the development process including when drawing up masterplans, area planning frameworks and development briefs.

#### NATIONAL PLANNING POLICY FRAMEWORK (NPPF)

- 50. To deliver a wide choice of high quality homes, widen opportunities for home ownership and create sustainable, inclusive and mixed communities, local planning authorities should:
  - (i) plan for a mix of housing based on current and future demographic trends, market trends and the needs of different groups in the community (such as, but not limited to, families with children, older people, people with disabilities, service families and people wishing to build their own homes);
  - (ii) identify the size, type, tenure and range of housing that is required in particular locations, reflecting local demand; and
  - (iii) where they have identified that affordable housing is needed, set policies for meeting this need on site, unless off-site provision or a financial contribution of broadly equivalent value can be robustly justified (for example to improve or make more effective use of the existing housing stock) and the agreed approach contributes to the objective of creating
  - (iv) mixed and balanced communities. Such policies should be sufficiently flexible to take account of changing market conditions over time.
- 56. The Government attaches great importance to the design of the built environment. Good design is a key aspect of sustainable development, is indivisible from good planning, and should contribute positively to making places better for people.
- 61. Although visual appearance and the architecture of individual buildings are very important factors, securing high quality and inclusive design goes beyond aesthetic considerations. Therefore, planning policies and decisions should address the connections between people and places and the integration of new development into the natural, built and historic environment.

69. The planning system can play an important role in facilitating social interaction and creating healthy, inclusive communities. Local planning authorities should create a shared vision with communities of the residential environment and facilities they wish to see. To support this, local planning authorities should aim to involve all sections of the community in the development of Local Plans and in planning decisions, and should facilitate neighbourhood planning. Planning policies and decisions, in turn, should aim

to achieve places which promote:

- opportunities for meetings between members of the community who might not otherwise come into contact with each other, including through mixed-use developments, strong neighbourhood centres and active street frontages which bring together those who work, live and play in the vicinity;
- safe and accessible environments where crime and disorder, and the fear of crime, do not undermine quality of life or community cohesion; and
- safe and accessible developments, containing clear and legible pedestrian routes, and high quality public space, which
  encourage the active and continual use of public areas.

# Glossary

#### **Unitary Development Plan**

The Unitary Development Plan (UDP) is part of the development plan for Hillingdon and contains a series of policies used for the determination of planning applications. Policies in the UDP were 'Saved' by the Sectary of State in 2007 and a number have been replaced by those contained in the Local Plan Part 1: Strategic Policies.

## The Hillingdon Local Plan

Hillingdon's Local Plan is divided in to two parts: The Local Plan: Part 1- Strategic Policies was adopted by the Council in November 2012 and is the key strategic planning document for the borough. It sets out a long-term vision and objectives for Hillingdon and contains broad policies for steering and shaping development.

The Local Plan Part 2 will comprise:

- A Development Management Policies Document: containing updated detailed development management policies for determining planning applications; and
- A Site Allocations Document and Proposals Map; which will identify particular sites for development and land use designations in the borough.

Consultation on the Local Plan Part 2 will commence in the first quarter of 2013.

#### **Supplementary Planning Document**

Supplementary Planning Documents expand on policies set out in Development Plan Documents, or provide additional detail.

#### **Access Statement**

An Access Statement enables the developer/applicant to explain the constraints of the scheme and the solutions introduced to provide a satisfactory outcome.

### **Design Statement**

A Design Statement demonstrates how the principles of Design have been incorporated within proposals, will Illustrate their impacts and explain why the design has been considered.

#### **Sources & References**

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(http://www.jmuaccess.org.uk)

**Greater London Authority** 

Housing Supplementary Planning Guidance November 2012

(http://www.london.gov.uk)

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