

Towards Better Age-Friendly Housing Standards in the United Kingdom?

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United Kingdom- Demographics

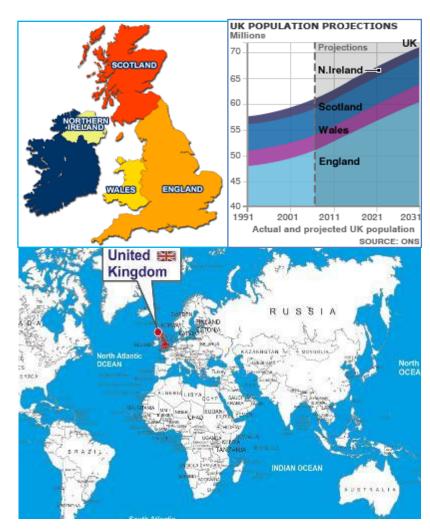
2014 UK Population 64.5m;

- England 54.3 (85%)
- Wales 3.1m (5%)
- Scotland 5.3 million(8%)
- Northern Ireland 1.8million(3%)

73.3 million predicted by 2037

11 million + disabled people of whom;

45% over State Pension Age

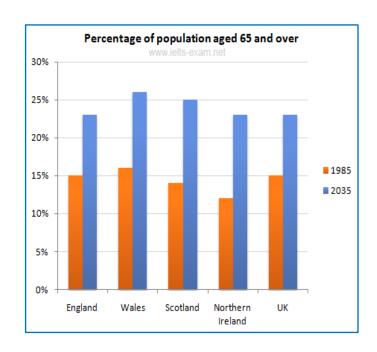


UK Ageing Statistics



- Over the next 20 years the number of people aged over 60 will increase by over 40%
- Predicted between 2008 and 2033;
 - 65+ 9.7 million to 16.5 million
 - 85+ increase to over 3 million (fastest growing group)
- In 2013 there were 775,000 people over 65 with dementia.
- 1 in 6 people over 80 have dementia and of people born today, 1 in 3 will have dementia
- 94% of older and disabled people live in mainstream housing and most wish to remain
- 1 in 3 Housing Association tenants are over 65
- Evidenced need for ordinary housing to meet the long term needs of an ageing population







Historical Background - Access

1961 1963 1974 1975 1978 1979

Homes for Today and Tomorrow (Parker Morris)	'Designing for the Disabled – Technical Information	Mobility Housing – DoE Circular	Wheelchair Housing – DoE Circular	'BS:5619 Design of Housing for the Convenience of Disabled	"Housing for the Elderly" 'Housing for the Disabled'
Space standards for family housing retained in NI still	Based on user studies (284 wh/ch users: external and home)	Design Standards - ambulant or P.T. wh/ch – prerequsite to LTH	Design Standards for wheelchair users	People' First BS for housing based on Goldsmith et al/ DoE research	Scottish Handbooks – Design Guidance First housing design guide



Historical Background – Access cont.

1989 1999 2000 2001 2001 2010

ACE Review	'Part M of	Part S of	Part R of	'BS:8300	'Review of
of Mobility	Building	Building	Building	'The Design of	Technical
Housing &	Regulations-	Regulations-	Regulations-	Buildings &	Housing
1992	Access &	Access &	Access &	their	Standards
'Building	Facilities for	Facilities for	Facilities for	approaches to	Announced
Homes for	Disabled	Disabled	Disabled	meet the	
Successive	People' & JRF	People	People	Needs of	
Generations	Meeting	Scotland	N. Ireland	Disabled	
	Part M & LTH			People	England – to
Recognised	First time -	Same as	Same as	Evidence	streamline
emergence	regs for	Part M	Part M	based!	access
of LTH	dwellings -			Updated '05,	standards
Standards	Visitable not			(09 & 2010)	
	adaptable				



Background - Accessible/Adaptable Housing

1993 1997 1998 1998 2002 2004

'Lifetime Housing' (Joseph Rowntree Foundation)	'Designing Lifetime Homes' (JRF)	Northern Ireland adopted LTH (2002/12- 17+ extra criteria)	'Housing for Varying Needs - A Design Guide Part 1:Houses & Flats'	Wales adopted LTH	Building Act Scotland – Technical Handbooks Environment/ Safety
Publicity brochure with the 16 design criteria	p s. s. i s i s s i s i s i s i s	government funded	Scottish Government Design Guide updating 'Barrier Free Housing' 1993	Adopted for Registered Social Landlords	Design guidance – updated in 2007 using similar LTH principles



Background - Accessible/Adaptable Housing cont.

2004 2005 2007 2010 2012 2013

'London Plan SPG: Accessible London' Mayor of London	'Design Quality Standards' Wales	DD:266 'Design of Accessible Housing, Lifetime'	'Lifetime Homes 2010 (Habinteg/ Trademark)	Lifetime Homes Research published (7 docs)	BS:266 Design of accessible & adaptable general needs housing
Required 100% LTH & 10% Wheelchair all tenure	additional	Steering group- LTH detail & BS8300 not housing	Revised to achieve higher level of practicability for builders	Published by new Govmt under FOI – analysis & costings	Detailed guidance supporting LTH



Lifetime Homes Standards (2010)

Lifetime Homes adopt 5 key principles of inclusive design; Inclusivity, Accessibility, Adaptability, Sustainability and Good Value

"Lifetime Homes are ordinary homes incorporating basic accessibility standards across 3 main areas – access, inside the home, and fixture/fittings. They also offer the potential for future adaptation, making them flexible enough to meet the needs of the household throughout the life course" JRF, 1993

Choice Independence
Dignified Welcoming
Flexible Convenient
Easy Comfortable Safe

"It's just a brilliant idea... I have a stair lift, but there are other things about the property that make things better for me. Like wider doors for my wheelchair. Our living space and access is built around one space and in my opinion, no matter what a family's needs are, a Lifetime Home will fulfil them."

Lifetime Homes Website, 'Bob's Case Study'





Lifetime Homes 2010 – Typology & Density

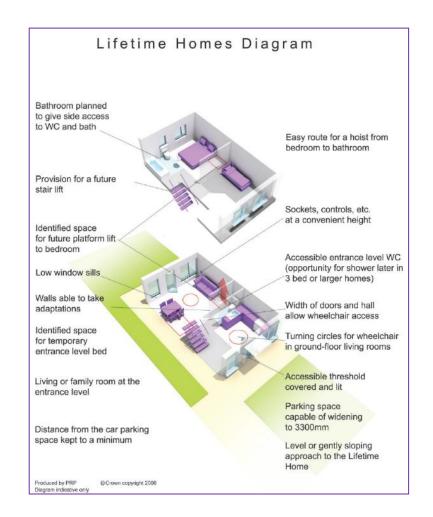






Lifetime Homes Standards (2010) Criteria

- 1. Car Parking Width
- 2. Access from Car Parking
- 3. Approach to All Entrances
- 4. Entrances
- 5. Communal Stairs & Lifts
- 6. Internal Doorways & Hallways
- 7. Wheelchair Accessibility/ Circulation Space
- 8. Entrance Level Living Space
- 9. Entrance Level Bedspace
- 10. Entrance Level WC & Shower Drainage
- 11. Bathroom & WC Walls
- 12. Stairs & Potential Through Floor Lift in Dwellings
- 13. Potential for fitting of hoists and bedroom/bathroom relationship
- 14. Accessible Bathrooms
- 15. Glazing & Window handle heights
- 16. Location of service controls





Lifetime Homes Standards (2010) Criteria



Lifetime Homes Standards (2010) Criteria







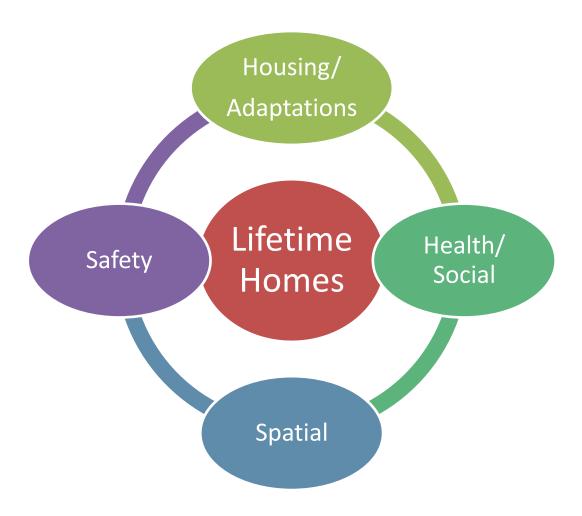








Lifetime Homes – Benefits





Lifetime Homes – Benefits

Housing/ Adaptations	Health/ Social	Safety	Spatial
 £0-1000 flat/house HK\$ 0-1,2000 Reduced expenditure on major adaptations Major Adaptation costs recouped within 3 -10 yrs Reduced process costs as understanding increases Reduced construction costs as industry adapts Saves rehousing costs 	 Savings of £1600 (HK\$19,200) £6960 adapted (HK\$83,520) Delayed moves into care Reduced need for temporary residential care Reduced need for homecare Safe discharge to suitable home environment Quality of life Reduced isolation 	 Reduced accidents in the home Potential savings of £515 to NHS over 60yr lifespan and £194 more savings than a new home built to basic regs (HK\$ 6,180 and HK\$ 2,328) 	 Negligible if taken into account at planning/design stage Consideration to lift/stair cores 1-2 bed flats 0-2 m square (low/medium density 30-60 dwellings per hectare, also later studies of 700 dwp/flats)



Lifetime Homes – Consumer Perspective

- 90% of residents felt the features should be incorporated into all homes (JRF 1997 survey of 1000 residents)
- 92% felt the LTH concept was a good idea (NI, 2002)
- Many residents unaware that their home had been designed to LTH (inclusive design but require knowledge for future adaptation)
- 9 out of 10 felt it would meet their changing needs over a lifetime and liked the idea that they would not need to move again.
- Support for level or gently sloped access, entrance WC/shower
- Majority supported wider hallways, corridors and smaller internal rooms (NI, 2002)
- 4 out of 5 residents felt it made a positive impact on their lives
- Majority of residents willing to pay more rent or higher purchase price for the benefits they feel a LTH property brings
- Residents welcomes the additional space, light (low/large windows) convenience and flexibility
- Some wheelchair users preferred LTH as they did not need all the features of a fully wheelchair accessible home
- Negative aspects seemed to relate to child safety e.g. window locks and socket covers

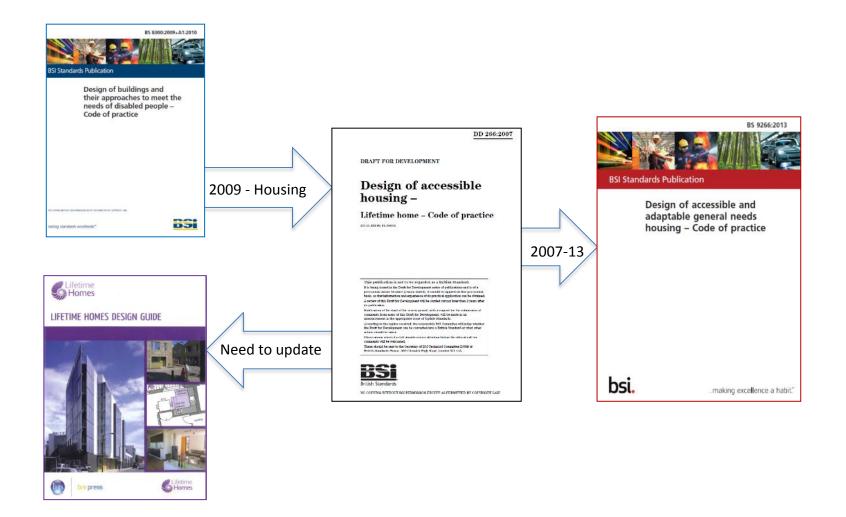


Lifetime Homes – Industry Perspective

- Negative view often due to lack of understanding as they had perceived LTH as specialist housing.
- Following discussion with industry and explanation about facts such as demographics and potential minimal cost or spatial impact i.e. the case made for LTH, they were generally very supportive.
- Lifecycle costs were of little concern to builders and developers
- Builders felt only people over 50 would place a lot of value on LTH
- LTH, in addition to improved home safety/accident prevention were felt to be an additional marketing tool
- Support for a single, consistent set of access standards/technical guidance - need for training
- N.B. Many restrictive concerns raised in previous research were removed in later LTH design guidance to enable volume housebuilding "If architects design them, building control approve them, we'll build them" (NI, 2002)

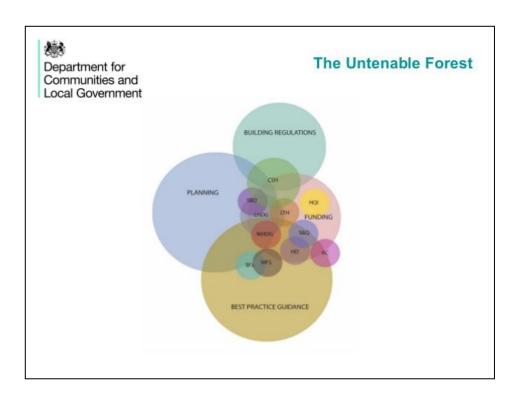


BS:9266 Accessible and Adaptable





Housing Standards Review - England



- 2010 Industry Led Examination of Housing Standards(England)
- 2011 Harman Review need to;
 - rationalise & streamline
 - remove confusion/contradiction
 - provide clear divide between
 Planning and Building Regulation
- 2012 Housing & Construction 'Red Tape Challenge'
- Launch of Housing Standards Review
 - Space
 - Access
 - Energy
 - Water
 - Security
- Finance & EU led



Technical Housing Standards Review - Access













Housing Standards Review – Part M 'Dwellings'

Process/Limitations

- Accessibility Technical Sub Group (2012-15)
 range of key stakeholders, not users
- Driven by Government, Red Tape Challenge and need to promote housebuilding
- Benefits of OT involvement
- 2 national consultations which set out;
 - proposed options (standards/regulation),
 - technical guidance and drawings,
 - financial impact assessments
- Fit for purpose/Evidence base
- Category 2 baseline & linked to Space
 Standards not taken forward by Ministers
- Wider social/welfare/safety benefits acknowledged latterly - not costed
- Building Regulation format not user-friendly e.g. limited use of colour indicators, diagrams confusing, lack of detail/limited information.

Outcome: BUILDING REGULATION (ENGLAND)

- 3 Categories of ADM Volume 1 (4);
 - M4 (1) Category 1: Visitable Dwellings
 - M4 (2) Category 2: Accessible & Adaptable
 - (based on Lifetime Homes)
 - M4 (3) Category 3: Wheelchair user
 (3)(a) Adaptable default requirement
 (3)(b) Accessible only if PA require
- M4 (1) mandatory for all new dwellings
- Cat 2 & 3 'optional requirements '
- Optional requirements set by Planning Authority
 (PA) and can change on a site by site basis.
- PA to evidence local need/viability for Cats 2 & 3
- Where approach is shared between different categories, the highest category will apply
- Diagrams now indicate drainage/pipework and permissable 'boxing-in' within overall space



LTH & Category 2 Comparisons

Additional Requirements

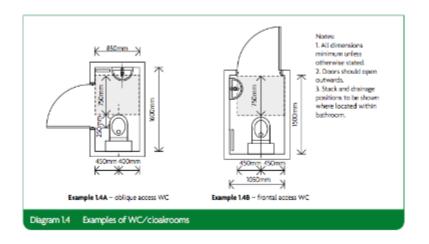
- 850mm COW principal communal & private entrance
- Step-free access i.e. a lift if above ground floor (unless can evidence non-viability)
- Entrance storey to provide future shower drainage
- Only 500mm encroachment permitted on one side of shower area
- Access to window handle to living area or remote control device
- Consumer unit 1350-1450mm
- Boiler timer controls & thermostats
 900-1200mm or separate controls at same height

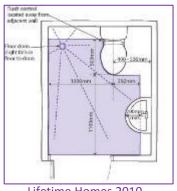
Removal/Amendment

- No requirement to indicate position of Through Floor Lift (TFL)
- No requirement for knock-through for TFL in concrete floors
- Narrower internal stair 850mm
- No requirement for ceiling support in bathroom and bedroom
- Direct relationship between bathroom and bedroom not required
- Larger basin permitted (can encroach access zone by 300mm)
- Turning circle can overlap shower area by 750mm
- No requirement for bed space on entrance level

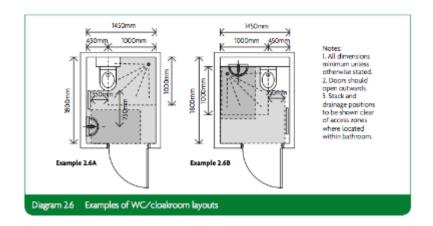


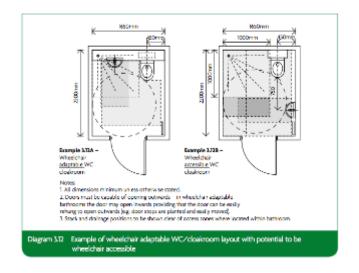
WC/Shower Layouts Comparison





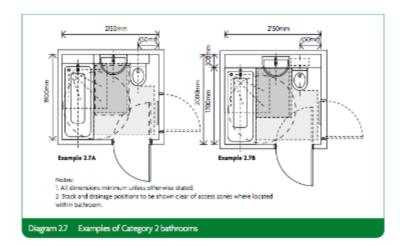








Bath/Shower Layout Comparison



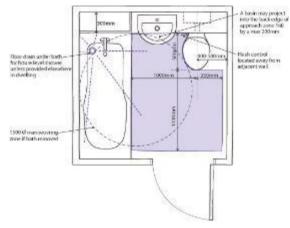
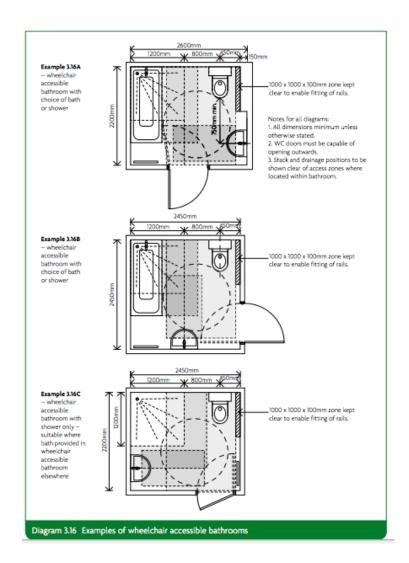


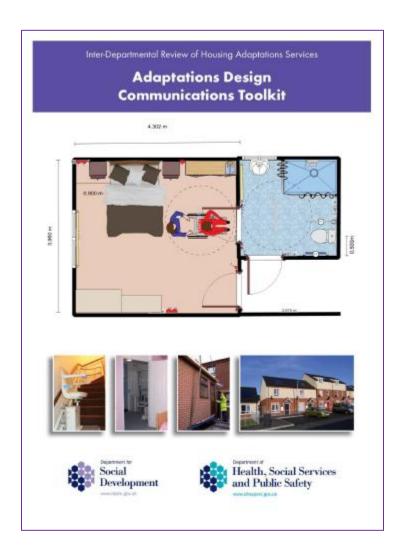
Figure 14b - Example bathroom layout

Tracks and field and Republic Administration





Evidence Base – Fit for Purpose?



	ROOM	LEVEL 1 DESIGN TEMPLATE 1	LEVEL 2 DESIGN TEMPLATE 2	LEVEL 3 DESIGN TEMPLATE 3
A	wc	1500mm x 2000mm (3.00m²) 900mm x 1500mm (without walking aid) (1.35m²)	1800mm x 2000mm (3.60m²)	2000mm x 2200mm (4.40m²)
В	WC / Shower Room (wet floor option)	1700mm x 1900mm (3.23m²)	2300mm x 2200mm (5.00m²)	2500mm x 2500mm (6.25m²)
	Bedroom			
С	Single Standard Bed	3000mm x 3600mm (10.80m²)	3300mm x 3800mm (12.54m²)	3800mm x 3600mm (13.68m²)
D	Single Hospital Bed	3100mm x 3900mm (12.00m²)	3400mm x 3800mm (12.92m²)	4100mm x 3700mm (15.17m²)
E	Double	3800mm x 3600mm (13.68m²)	3900mm x 3900mm (15.21m²)	3950mm x 4200mm (16.59m²)
	Twin Room			
F	2 Single Beds standard	3900mm x 3800mm (14.82m²)	4200mm x 3800mm (15.96m²)	4500mm x 3800mm (17.10m²)
G	Hospital Beds (1 standard bed & 1 hospital bed)	4000mm x 4100mm (16.40m²)	4300mm x 4100mm (17.63m²)	4600mm x 4100mm (18.86m²)



Lessons Learnt & Suggestions

- Engage key stakeholders to promote understanding and a willingness to take proposals forward in a practical and pragmatic way
- Find ways to increase the marketability of a 'lifetime home' e.g. introduce labelling of access/adaptable features (similar to space, energy efficiency)
- Need for robust, wide-ranging evidence base to
 - a) Obtain Government AND Industry 'buy-in'
 - b) Ensure proposals are fit for purpose
- Provide cost comparisons between current regulation e.g.
 - structural/construction costs
 - analysis of wider health/social care/safety benefits
- Have clearly defined, easily understood standards applicable across tenure & typology
- Implement standards at planning/design stage to minimise construction/adaptation costs
- Regulation (industry will accommodate/find cost effective ways to comply)
- Consider the inter-relationship of space, in addition to other key issues such as daylight



"Design for the young and you exclude the old, design for the old and you include everyone"

Age Concern, UK

Thankyou for listening Jacquel.Runnalls@walthamforest.gov.uk





Appendices provide references to Lifetime Homes
Standards evidence based research/publications and
the historical background relevant to
accessible/adaptable housing design in the UK



Appendix 1: Evidence Base Documents

- 1997 LTH Research (out of print); Residents Perceptions of LTH, Designing LTH, A Cost Benefit Analysis of LTH, Costing LTH
 <u>http://www.lifetimehomes.org.uk/pages/history.html</u>

 https://www.jrf.org.uk/press/lifetime-homes-match-higher-building-standards-long-term-cost-effectiveness
- 2001 Consumer and Industry Views of LTH https://www.jrf.org.uk/report/consumer-and-industry-views-lifetime-homes
- 2002 LTH in NI 'Evolution or Revolution' (out of print)
- 2004 London Plan 'SPG Accessible London' https://www.london.gov.uk/sites/default/files/archives/spg accessible london.pdf
- 2006 Mayor of London 'Accessible London: achieving an inclusive environment: LTH Case Studies'
- http://legacy.london.gov.uk/mayor/strategies/sds/docs/lifetime-homes.pdf
- 2007 DCLG 'future of the Code for Sustainable Homes'
 http://webarchive.nationalarchives.gov.uk/20120919132719/http://www.communities.gov.uk/documents/corporate/pdf/Makingaratingmandatory.pdf
- 2008 Lifetime Homes, Lifetime Neighbourhoods A National Strategy for Housing in an Ageing Society'
- http://webarchive.nationalarchives.gov.uk/20120919132719/http://www.communities.gov.uk/documents/corporate/pdf/Makingaratingmandatory.pdf
- 2010 Why the Private Sector should build to LTHS' A Business Case by the Northern Ireland Housing Council http://www.nihousingcouncil.org/CMSPages/GetFile.aspx?quid=95e1f58e-1f51-4cfc-823b-921ce882db8f
- 2010 Lifetime Homes Standard case studies/evidence http://www.lifetimehomes.org.uk/index.php
- 2012 DCLG Published research commissioned by previous parliament http://www.housinglin.org.uk/siteSearch/index.cfm?page=doSearch&keywords=lifetime+homes+
- DCLG England 2013-15 Housing Standards Review Consultations, Responses, Costings/Impact Assessment
- https://www.gov.uk/government/consultations/housing-standards-review-technical-consultation
- 2014 An Alternative Age-Friendly Handbook (Ageing in a Contemporary City) http://www.cpa.org.uk/cpa-lga-evidence/Manchester-Age_Friendly Neighbourhoods/Handler(2014)-An Alternative Age-Friendly Handbook-Large_print_version.pdf
- 2015 Building Regulations Part M (England) 'Access to and use of Buildings' Volume 1 Dwellings
- http://www.planningportal.gov.uk/buildingregulations/approveddocuments/partm/adm/admvol1



Appendix 2: History – Access/Disability

- •1961 Homes for Today and Tomorrow (Parker Morris)
- •1963 'Designing for the Disabled Technical Information' (Selwyn Goldsmith)
- •1967 British Standard CP96 'Access to Buildings in Public Use Good Practice Guide'
- •1970 Chronically Sick and Disabled Persons Act (Sections 3,4,5,6)
- •1974 Department of Environment (DoE) Circular 'Mobility Housing'
- •1975 DoE Circular 'Wheelchair Housing' & 'Housing for People who are Physically Handicapped'
- •1978 British Standard:5619 'Design of Housing for the Convenience of Disabled People'
- •1979 British Standard:5810 'Access for the Disabled to Buildings Code of Practice
- •1979-81 Scottish Handbooks 'Housing for the Elderly' and 'Housing for the Disabled'
- •1981 Disabled Persons Act (re-enforcement & extension of 1970 CSDP duties)
- •1985 Part T Building Regulation 'Access & Facilities for Disabled People' (public)
- •1987 Part M Building Regulations (extended remit of Part T)
- •1989 BS:6523 Access to Movement within and around Buildings & Certain Facilities for Disabled People
- •1989 Access Committee for England (ACE) tasked to review Mobility Housing
- •1992 Part M Building Regulations 'Access & Facilities for Disabled People' definition widened to include hearing/sight impairment
- •1994 Part T Building Regulations/Technical Standards (Scotland) updated as per Part M
- •1995 & 2005 Disability Discrimination Act
- •1999 Part M Building Regulations now applicable to dwellings but only 'visitable' covered Means of Access, Entrance Storey circulation, Accessible Switches, Passenger Lifts and Stairs
- •2000 Part S (Scotland) 'Access to and Movement within buildings' (replaced Part T)
- •2001 Part R introduced in NI (equivalent to Part M) & now Part S in Scotland
- •2001 BS: 8300 'The Design of Buildings and their Approaches to meet the Needs of Disabled People Code of Practice' updated 2005. 2009 & 2010.
- •2004 ADM 'Access to and Use of Buildings' (ID terminology) minor revisions, hoped for more LTH aspects
- •2009 & 2012 Housing for our Ageing Population: Panel for Innovation
- •2010 United Nations Convention on the Rights of Disabled People
- •2010 Equality Act (combined various anti-discriminatory legislation)
- •2010 Review of Housing Standards in England announced



Appendix 3: History – Accessible/Adaptable Housing

- •1980's Lifetime Homes concept & Standards introduced by HHF & Habinteg HA
- •1990 'Lifetime Homes -Flexible Housing for Successive Generations' Seminar (HHF)
- •1992 'Building Homes for Successive Generations'(ACE) Criteria for Accessible General Housing
- •1993 Lifetime Housing (JRF) publicity brochure with 16 design criteria
- •1995 'The Design of Barrier Free Housing' (Scottish Homes)
- •1997 'Designing Lifetime Homes' & 4 research documents (Joseph Rowntree Foundation)
- •1998 LTH Adopted for government funded housing in Northern Ireland
- •1998 'Housing for Varying Needs A Design Guide Part 1: Houses & Flats' (Scotland)
- •1999 Meeting Part M and Designing Lifetime Homes (JRF) comparison document
- •2002 LTH Adopted for RSL's in Wales
- •2002 LTH Adopted for all RSL's in Northern Ireland with additional requirements
- •2002 'Evolution or Revolution' Evaluation study of benefits of LTH in N((JRF)
- •2003 'Housing Sight-A Guide to Building Accessible Homes for people with Sight Loss' (Wales)
- •2004 Building Act Scotland Technical Handbooks (Environment, Safety) similar to LTH
- •2004 Mayor of London 'Spatial Development Strategy' 100% LTH/10% Wh/ch across tenure
- •2005 'Design Quality Standards' (Wales) LTH for HA's with additional requirements
- •2007 Building Standards/Technical Handbooks (Scotland) updated in line with LTH concepts
- •2007 DD:266 Design of Accessible Housing. Lifetime Home Draft for Development
- •2008 Lifetime Homes, Lifetime Neighbourhoods—National Strategy for an Ageing Society 2010 Lifetime Homes (Habinteg trademark) updated from previous standards
- •2010 Lifetime Homes (trademark) revised version following technical review
- •2011 'A Strategy for Housing for Scotland's Older People' Review of BS/LTH
- •2012 LTH research (2009) & 'Assessing the Health Benefits of LTH (BRE/DCLG)
- •2012 LTH changes to additional requirements for social housing in Northern Ireland
- •2012 Harman Report published and Housing Standards Review announced
- •2013 BS: 266 'Design of accessible and adaptable general needs housing Code of Practice'