



Code for Sustainable Homes

**Summary of Changes to the Technical Guidance  
October 2008**





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October 2008**

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# Introduction

This document is a list of the changes in the October 2008 version of the Code Technical Guidance and the previous version (April 2008). In addition to this document, all the changes within the Technical Guide have been back highlighted in grey within the text.

Code for Sustainable Homes October 2008 Update Summary of Changes				
Issue ID	Ref.	Location April 2008 Technical Guide	Location October 2008 Technical Guide	Change
Changes to the Technical Guidance	1	Pg 2	Pg 2	<b>Delete:</b> 'A list of changes between this version (April 2008) and the previous version (October 2007) of the Code for Sustainable Homes Technical Guidance is published as a separate document. In addition to this, where the assessment criteria have changed or special cases amended, these have been back highlighted in grey within the text of this document.' <b>Insert:</b> 'A list of changes between this version (October 2008) and the previous version (April 2008) of the Code for Sustainable Homes Technical Guidance is published as a separate document. All changes have been back highlighted in grey within the text of this document.'
Preface	2	Pg 7, 1st paragraph	Pg 7	<b>Deleted:</b> 'The Code became operational in April 2007 in England, and having a Code rating for new build homes mandatory, from 1st May 2008. This mandatory requirement comes into effect for all developments where a local authority has received a building notice, initial notice or full plans application after 1st May 2008. Developments where a local authority had received these stages on or before 30 April 2008 will be exempt.' <b>Inserted:</b> 'The Code became operational in April 2007 in England <sup>2</sup> , and having a Code rating for new build homes mandatory, from 1st May 2008. This mandatory requirement came into effect for all developments where a local authority received the building notice, initial notice or full plans application after 1st May 2008. Developments where a local authority had received these stages on or before 30 April 2008 are exempt.'

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Issue ID	Ref.	Location April 2008 Technical Guide	Location October 2008 Technical Guide	Change
	<b>3</b>	Pg 7, After 1st paragraph.	Pg 7	<b>New sentence inserted:</b> 'Where Building Regulations apply, compliance is necessary at all times.'
	<b>4</b>	Pg 7, Footnote	Pg 7	<b>Deleted:</b> '2 The Code does not apply in Scotland. The National Assembly for Wales recently announced that they would be adopting the Code in the near future, and Northern Ireland will be requiring Code Level 3 for all public sector housing from April 2008.' <b>Inserted:</b> '2 The Code does not apply in Scotland. From 1 May 2008 a minimum of Code level 3 is required for all new housing promoted or supported by the Welsh Assembly Government or Assembly Government Sponsored Bodies. From 2nd June 2008 Code Level 3 is required for all new self-contained social housing in Northern Ireland.'
	<b>5</b>	Pg 8, last paragraph	Pg 8	<b>Deleted:</b> 'This would apply to all new homes that are marketed for sale, although a nil rated certificate of non-assessment can be downloaded from <a href="http://www.bre.co.uk">www.bre.co.uk</a> , <a href="http://www.stroma.com">www.stroma.com</a> or <a href="http://www.homeinformationpacks.gov.uk">www.homeinformationpacks.gov.uk</a> .' <b>Inserted:</b> 'This applies to all new homes that are marketed for sale, although a nil rated certificate of non-assessment can be downloaded from <a href="http://www.bre.co.uk">www.bre.co.uk</a> , <a href="http://www.stroma.com">www.stroma.com</a> or <a href="http://www.homeinformationpacks.gov.uk">www.homeinformationpacks.gov.uk</a> .'
	<b>6</b>	Pg 12, 1st paragraph, 2nd sentence.	Pg 12	<b>Deleted:</b> 'expect' <b>Inserted:</b> 'except'.
	<b>7</b>	Pg 14, final paragraph, 1st sentence.	Pg 14	<b>Deleted:</b> 'once' <b>Inserted:</b> 'one'.

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Intro	8	Pg 24, Figure 3.1: The Code Assessment Process.	Pg 24	<b>Deleted:</b> '(Optional)' from underneath the statement 'TO PCS'
	9	Pg 27, 2nd paragraph, 2nd sentence.	Pg 27	<b>Deleted:</b> 'houses' <b>Inserted:</b> 'dwellings'.
Intro	10	Pg 27, 3.2.2, 2nd paragraph.	Pg 27	<b>Deleted:</b> 'The assessor shall be satisfied that commitments made at design stage have been achieved and should carry out an appropriate level of checking to achieve this.' <b>Inserted:</b> 'The assessor organisation shall be satisfied that commitments made have been achieved and should carry out an appropriate level of checking to achieve this.'
	11	Pg 28, Table 3.1, Sur 1.	Pg 28	<b>Deleted:</b> 'Specific infiltration measures, such as soakaways do not need to be designed, but their location need to be planned and a programme for their construction finalised which indicates that they will be operational before more than 60 per cent of the dwellings are completed/certified.' <b>Inserted:</b> 'Specific infiltration measures, such as soakaways and permeable paving, may not be fully installed when initial phases are released, but evidence of the devices to be used and any relevant calculations need to be available. They need to be operational before more than 60 per cent of the dwellings are completed/certified.'

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	12	Pg 29, Table 3.1, Eco 3.	Pg 29	<p><b>Deleted:</b> 'It will not be possible to check features protected that relate to the plot being assessed. On a site wide basis this is not possible to confirm that all features have been retained until all development is complete.'</p> <p><b>Inserted:</b> 'It will not be possible to confirm that the credit has been achieved for an individual plot being assessed until the entire development site has been assessed to confirm all features have been protected. The assessor should check that features relating to areas of the site where construction has been completed have been protected. For areas where construction is not yet complete, it should be checked that protection measures are in place to protect features during construction works as detailed at design stage.'</p>
Ene1	13	Pages 40–53.	Pg 40–53	<b>All changes included in the Code Addendum document (04/06/08) incorporated.</b>
	14	Pages 41–42, design stage and post construction stage evidence requirements.	Pg 41–51	<p><b>All instances of:</b> 'accredited energy assessor/Part L 'Competent person''</p> <p><b>Replaced with:</b> 'accredited energy assessor'</p>
	15	Pg 43, definitions.	Pg 43	<p><b>Deleted:</b> 'Accredited Energy Assessor/Part L 'Competent person: A person registered by an Accredited SAP service provider licensed by Communities and Local Government in respect of the calculation of CO2 emission rates of buildings.'</p>

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				<b>Inserted:</b> 'Accredited Energy Assessor: A person registered with an accredited energy assessment scheme. The scheme provider will be licensed by Communities and Local Government in respect of the calculation of CO2 emission rates of buildings.'
	<b>16</b>	Pg 52, special cases.	Pg 51	<b>Deleted:</b> 'Renewable systems not currently dealt with under SAP 2005:' <b>Inserted:</b> 'Renewable systems, technologies and fuels not currently covered by SAP 2005:'
	<b>17</b>	Pg 52, 3rd paragraph	Pg 51	<b>Deleted:</b> 'For some other types of renewables please refer to the SAP Appendix Q website (see <a href="http://www.sap-appendixq.org.uk">http://www.sap-appendixq.org.uk</a> ). This provides guidance on how to incorporate the energy performance of new technologies as well as evaluating advanced versions of existing technologies so that they can be included in SAP assessments.' <b>Inserted:</b> 'The SAP Appendix Q website ( <a href="http://www.sap-appendixq.org.uk">http://www.sap-appendixq.org.uk</a> ) provides guidance on how to incorporate new technologies and advanced versions of existing technologies into SAP assessments.'
<b>Ene3</b>	<b>18</b>	Pg 59, post construction stage evidence requirements	Pg 58	<b>After:</b> 'Manufacturer's information confirming the types of light fittings and efficacy, in lumens per circuit watt, for all lamps' <b>Inserted:</b> 'Note: For CFL and TFL fittings, confirmation of efficacy is not required.'

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Issue ID	Ref.	Location April 2008 Technical Guide	Location October 2008 Technical Guide	Change
Ene6	19	Pg 73, space lighting definition.	Pg 72	<b>Deleted:</b> 'It is acceptable that some lighting, such as path lighting and car park lighting, remains switched on for safety reasons.' <b>Inserted:</b> 'It is acceptable that some lighting remains switched on outside of daylight hours for safety reasons. Situations where this may be acceptable include: main external entrances, external steps, pathways and car parks.'
	20	Pg 75, background, 3rd paragraph.	Pg 74	<b>Deleted:</b> 'The current Building Regulations in England...' <b>Inserted:</b> 'The current Building Regulations in England and Wales...'
Ene7	21	Pages 76–87	Pg 76	<b>All changes included in the Code Addendum document (04/06/08) incorporated.</b>
	22	Pg 77, design stage evidence requirements.	Pg 76	<b>Deleted:</b> 'Confirmation that a feasibility study has been carried out by an independent energy specialist to establish the most appropriate LZC energy source for the building/development' <b>Inserted:</b> 'Confirmation that a feasibility study has been carried out by an independent energy specialist to determine the appropriate LZC energy source(s) for the building/development OR Confirmation that the specified LZC energy source(s) will be funded by the Low Carbon Buildings Programme (or similar)'
	23	Pg 77, post construction stage evidence requirements.	Pg 79	<b>After:</b> 'Confirmation that the design has been carried out by an independent energy specialist' <b>Inserted:</b> 'OR Confirmation that the specified LZC energy source(s) has been funded under the Low Carbon Buildings Programme (or similar).'

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	<b>24</b>	Pg 80 (addendum), low or zero carbon technologies definition.	Pg 80	<b>Deleted:</b> 'The following technologies are examples of those that may be considered as part of a Low or Zero Carbon Emission solution:' <b>Inserted:</b> 'Technologies recognised by the Department for Business Enterprise and Regulatory Reform (BERR) Low Carbon Buildings Programme (LCBP) may be considered as part of a low or zero carbon emissions solution. The following list details the technologies recognised by the BERR, LCBP at the time of going to print:'
	<b>25</b>	Pg 80, low or zero carbon technologies definition, 4th bullet.	Pg 80	<b>Deleted:</b> 'where the majority of heating comes from biomass'
	<b>26</b>	Pg 84–86 (addendum), Table Cat 1.4: LZC Contribution and CO <sub>2</sub> savings.	Pg 84–86	<b>Calculation table deleted. Revised calculation table inserted</b> (see Appendix A)
	<b>27</b>	Pg 81, low or zero carbon definition	Pg 80	<b>Deleted:</b> 'For recently developed LZC technologies or LZC technologies that are not mentioned here, please contact a service provider to ensure compliance.'
<b>Ene7</b>	<b>28</b>	Pg 81, low or zero carbon definition	Pg 81	<b>Deleted:</b> 'All microgeneration equipment will need to comply with this scheme in order to satisfy the requirement for credits.' <b>Inserted:</b> 'Where technologies are covered by the MCS, all equipment and installers will need to comply with the scheme in order to satisfy the requirement for credits.'

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Ene8	29	Pg 90, convenient access definition.	Pg 90	<b>Deleted:</b> 'Full details must be provided and BRE the code service provider consulted prior to awarding credits.' <b>Inserted:</b> 'Full details must be provided and the Code Service Provider consulted prior to awarding credits.'
	30	Pg 91, secure storage definition (individual dwellings)	Pg 91	<b>Deleted:</b> '-for halls and solid enclosed structures: entrance lock or secure fixing(s)' <b>Inserted:</b> '-for solid enclosed structures: entrance lock or secure fixing(s)'
	31	Pg 91, secure storage definition (individual dwellings)	Pg 91	<b>Deleted:</b> '-for non solid structures: entrance lock or secure fixing(s)' <b>Inserted:</b> '-for non solid structures: entrance lock and secure fixing(s)'
Wat1	32	Pg 100, definitions.	Pg 100	<b>Definition deleted:</b> 'Dual Flush Cisterns' <b>Definition inserted:</b> 'Low Flush WCs – Low flush WCs are specifically designed to reduce the volume of water consumed during flushing. There are various systems that can be specified to achieve a reduction in flush volume, such as low single flush cisterns, delayed action water inlet valves and dual flush cisterns, which provide a part flush for liquids and a full flush for solids. Such systems must be matched to suitable WC pans and should pass the discharge performance requirements of BS EN 997:2003 for Class 2 WC suites.'
	33	Pg 106, 3rd paragraph, 1st sentence.	Pg 106	<b>Deleted:</b> 'Similarly, for wash hand basin or kitchen sink taps where there is a separate hot and cold tap, the proportion for each tap is 0.5 with the total consumption for the wash hand basin assumed as 50 per cent from each tap.'

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				<b>Inserted:</b> 'Similarly, for wash hand basin or kitchen sink taps where there is a separate hot and cold tap, the proportion of each tap is 0.5 with the total consumption for the wash hand basin or kitchen sink taps assumed as 50 per cent from each tap.'
	<b>34</b>	Pg 108, eighth paragraph, 1st sentence.	Pg 108	<b>Deleted:</b> '(e) + (d) + (e)' <b>Inserted:</b> '(c) x (d) x (e/100)'
	<b>35</b>	Pg 110, common cases of non-compliance, 2nd paragraph.	Pg 110	<b>Deleted:</b> 'The Code recognises only fixed fittings and fixtures such as dual-flush WCs and flow restrictors.' <b>Inserted:</b> 'The Code recognises only fixed fittings and fixtures such as low flush WCs and flow restrictors.'
	<b>36</b>	Pg 101, assessment methodology, point 5	Pg 101	<b>Deleted:</b> 'The maximum flow rate quoted by the manufacturer can also be the maximum flow rate achieved with a flow restrictor'. <b>Inserted:</b> 'The maximum flow rate can be the flow rate achieved with a flow restrictor i.e. where flow restrictors are specified, 2/3 of the flow rate with the restrictor installed should be taken'.
	<b>37</b>	Pg 101, assessment methodology, point 6	Pg 101	<b>Deleted:</b> 'This is typically 50 per cent of the flow rate'. <b>Inserted:</b> 'This is typically 50 per cent of the flow rate, however this should not be assumed and manufacturers' information must always be used.'

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<b>Mat1</b>	<b>38</b>	Pg 120, 2nd paragraph	Pg 120	<b>Deleted:</b> 'Specifications which address a function which is not typical for the element, e.g. security, severe exposure, unusual loading or structural conditions, should refer to the Code Service Provider for guidance.' <b>Inserted:</b> 'For specifications that address a function which is not typical for the element e.g. security, severe exposure, unusual loading or structural conditions, refer to the Code Service Provider'.
<b>Mat2</b>	<b>39</b>	Pg 126, Assessed Materials definition.	Pg 126	<b>Deleted:</b> 'Resin based composites and materials (including Glass and Reinforced Plastic (GRP) and polymeric render)' <b>Inserted:</b> 'Resin based composite materials (including GRP and polymeric render, but excluding composite which incorporates timber).'
	<b>40</b>	Pg 126, Assessed Materials definition.	Pg 126	<b>Deleted:</b> 'Timber and wood panel products Cement Bonded Particle Board.' <b>Inserted:</b> 'Timber, wood panel products and wood based composites (including cement bonded particle board, laminated veneered lumber, glulam)
	<b>41</b>	Pg 128, definitions.	Pg 128	<b>Definition Inserted:</b> 'Composite Materials – Composite material can be defined as an engineered material made from two or more constituent materials with significantly different physical or chemical properties and which remain separate and distinct on a macroscopic level within the finished structure. Resin based composites (such as GRP and polymeric render) and timber composites (such as Chipboard/ Particleboard, MDF, OSB, plywood, hardboard, laminated veneered lumber, glulam and cement bonded

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				particleboard) are all required to be assessed for responsible sourcing within the Code for Sustainable Homes'.
	42	Pg 133, Table: Cat 3.2 (material column).	Pg 133	<b>Deleted:</b> 'Resin based composites and materials (including GRP and polymeric render)' <b>Inserted:</b> 'Resin based composite materials (including GRP and polymeric render, but excluding composite using timber)'
	43	Pg 133, Table: Cat 3.2 (supply chain processes column).	Pg 133	<b>Deleted:</b> 'Glass fibre production' <b>Inserted:</b> 'Glass fibre production (or other principal matrix material if used)'.
	44	Pg 133, Table: Cat 3.2 (supply chain processes column).	Pg 133	<b>Deleted:</b> 'Polymer production' <b>Inserted:</b> 'Polymer production (or other principal reinforcement material if used)'.
	45	Pg 134, Table: Cat 3.2 (material column).	Pg 134	<b>Deleted:</b> 'Virgin timber' <b>Inserted:</b> 'Virgin timber and timber products such as laminated veneered lumber, glulam etc'
	46	Pg 135, common cases of non-compliance.	Pg 135	<b>Deleted:</b> 'The statement of intent from British Gypsum does not comply with the requirements stated within the Technical Guidance.' <b>Inserted:</b> 'A statement of intent from a product manufacturer and/or supplier does not meet the requirements for this issue.'
	47	Pg 136, background, first sentence.	Pg 136	<b>Deleted:</b> 'Up to 6 credits are awarded for responsible sourcing of materials through auditable third party certification schemes.' <b>Inserted:</b> 'Credits are awarded for responsible sourcing of materials through auditable third party certification schemes.'

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Mat3	48	Pg 143, background, first sentence.	Pg 143	<b>Deleted:</b> 'Up to 6 credits are awarded for responsible sourcing of materials through auditable third party certification schemes.' <b>Inserted:</b> 'Credits are awarded for responsible sourcing of materials through auditable third party certification schemes.'
Sur1	49	Pg 145–146, assessment criteria table.	Pg 145–146	<b>Assessment criteria table deleted. Revised assessment criteria table inserted</b> (see Appendix B)
	50	Pg 146, design stage evidence requirements.	Pg 146	<b>Deleted:</b> 'Confirmation of the appointment of an appropriate consultant to carry out the calculations and provide design criteria for all relevant elements' <b>Inserted:</b> 'Confirmation of the appointment of an appropriately qualified engineer or consultant to carry out the calculations and provide design criteria for all relevant elements'
	51	Pg 146, design stage evidence requirements.	Pg 146	<b>Deleted:</b> 'Copy of the consultants report and Flood Risk Assessment, containing all information necessary to meet the mandatory requirements.' <b>Inserted:</b> 'Copy of the consultant's or engineer's report and Flood Risk Assessment (see definition), containing all information necessary to meet the mandatory requirements.'
	52	Pg 146, post construction stage evidence requirements.	Pg 146	<b>Deleted:</b> 'Significant time may have passed since the Flood Risk Assessment was carried out, so where necessary, confirm that the basis of the Flood Risk Assessment has not been changed.' <b>Inserted:</b> 'Significant time may have passed since the flood risk assessment was carried out, so where necessary, confirm that the basis of the Flood Risk Assessment has not changed.'

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	<b>53</b>	Pg 147, definition title	Pg 147	<b>Deleted:</b> 'Appropriately qualified consultant' <b>Inserted:</b> 'Appropriately qualified consultant or engineer'
	<b>54</b>	Pg 147, appropriately qualified consultant definition.	Pg 147	<b>Inserted:</b> 'The appropriate level of qualification required will depend on the complexity, size and density of build on the site'. <b>After:</b> 'A hydrological consultant or engineer.'
	<b>55</b>	Pg 147, Flood Risk Assessment definition.	Pg 148	<b>Inserted:</b> 'For developments of less than 1ha (10 000m <sup>2</sup> ) and situated in Zone 1 the level of detail required in an acceptable FRA (for Sur 1) will depend on the size and density of build. This will range from a brief report for small, low density developments, to a more detailed assessment for a high density development 2000 – 10 000m <sup>2</sup> in size. For example: For very small developments (2000m <sup>2</sup> and less), an acceptable FRA could be a brief report done by the contractor's engineer, including information obtained from; the environment agency, water company/sewerage undertaker, other relevant statutory authorities, site investigation and local knowledge.' <b>After current definition text.</b>
	<b>56</b>	Pg 152, watercourses definition	Pg 153	<b>Deleted:</b> 'A term including all rivers, streams, ditches, drains, cuts, culverts, dykes, sluices and passages through which water flows.' <b>Inserted:</b> 'A term including rivers, streams, ditches, drains, cuts, culverts, dykes, sluices, sewers and passages through which water flows.'
	<b>57</b>	Pg 152, definitions.	Pg 153	<b>Title deleted:</b> 'The Functional Floodplain – Zone 3b' <b>Title inserted:</b> 'Functional Floodplain – Zone 3b'

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Sur1	58	Pg153, design stage assessment methodology, bullet point 1.	Pg 153	<b>Deleted:</b> 'Check that an appropriately qualified consultant has been appointed' <b>Inserted:</b> 'Check that an appropriately qualified consultant or engineer has been appointed'
	59	Pg153, design stage assessment methodology, bullet point 2.	Pg 153	<b>Deleted:</b> 'Check that the Flood Risk Assessment (FRA) and consultants report contain all information needed to cover the mandatory requirements.' <b>Inserted:</b> 'Check that an appropriate Flood Risk Assessment (FRA) has been carried out (see definition) and that the consultant's or engineer's report contains all information necessary to satisfy the mandatory requirements.'
Sur1	60	Pg 154, special cases.	Pg 154	<b>Deleted:</b> 'For sites of less than 200ha, the calculation of Greenfield runoff rates should be in accordance with Flood estimation for small catchments (Marshall and Bayliss, 1994) and any subsequent updates. For sites of 200ha and more, the calculation of Greenfield runoff rates should be in accordance with the Flood estimation handbook (Centre for ecology and hydrology, 1999) and any subsequent updates. An allowance for climate change should be made in accordance with current best practice (PPS25, 2006).'
Sur2	61	Pg 155, assessment criteria table.	Pg 156	<b>Deleted:</b> '1 credit is available for developments situated in Zones 2 and 3' <b>Inserted:</b> '1 credit is available for developments situated in Zones 2 and 3a'
	62	Pg 156, post construction stage evidence requirements.	Pg 157	<b>Deleted:</b> 'As for design stage and if significant time has passed since the Flood Risk Assessment was carried out, confirmation that the basis of the Flood Risk Assessment has not been changed'

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				<b>Inserted:</b> 'As for design stage and if significant time has passed since the Flood Risk Assessment was carried out, confirmation that the basis of the Flood Risk Assessment has not changed.'
	<b>63</b>	Pg 158, high annual probability of flooding definition	Pg 159	<b>Deleted:</b> '(Zone 3)' <b>Inserted:</b> '(Zone 3a)'
<b>Was1</b>	<b>64</b>	Pg 161, assessment criteria, 1st paragraph.	Pg 162	<b>Deleted:</b> 'non-recyclable waste storage' <b>Inserted:</b> 'household waste storage'
	<b>65</b>	Pg 161–162, assessment criteria table.	Pg 162–163	<b>Assessment criteria table deleted. Revised assessment criteria table inserted</b> (see Appendix C)
	<b>66</b>	Pg 167, Checklist Was 1 – Accessibility to disabled people.	Pg 168	<b>Checklist Was 1 – Accessibility to disabled people, deleted. Revised Checklist Was 1 – Accessibility to waste storage space for disabled people, inserted</b> (see Appendix D)
<b>Was2</b>	<b>67</b>	Pg 169, Aim.	Pg 170	<b>Deleted:</b> All Text. <b>Inserted:</b> 'To promote reduction and effective management of construction related waste through the use of a Site Waste Management Plan.'
<b>Was2</b>	<b>68</b>	Pg 169, assessment criteria table, mandatory element, 2nd paragraph.	Pg 170	<b>Deleted:</b> 'Specific targets are not required'. <b>Inserted:</b> 'Specific quantitative targets are not set within this Technical Guidance. It is the responsibility of the client and/or the principal contractor (as defined by the SWMP regulations 2008) to ensure that appropriate targets are set for the site.'

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	69	Pg 170, design stage evidence requirements.	Pg 171	<b>Deleted:</b> '-where there is a commitment to reduce waste generated on site: a completed copy of Checklist Was2b and checklist Was2d – Checklist Was 2b' <b>Inserted:</b> '-where there is a commitment to reduce waste generated on site: a completed copy of Checklist Was.2b and Checklist Was.2d'
Was2	70	Pg 170, design stage evidence requirements.	Pg 171	<b>Deleted:</b> '-where there is a commitment to divert construction waste from landfill: a completed copy of Checklist Checklist Was.2c and Checklist Was.2d' <b>Inserted:</b> '-where there is a commitment to divert construction waste from landfill: a completed copy of Checklist Was.2c and Checklist Was.2d'
	71	Pg 170, post construction stage evidence requirements.	Pg 171	<b>Deleted:</b> '-where there is a commitment to reduce waste generated on site: a completed copy of Checklists 5.2 and 5.4 – Was 2 (if different from design stage)' <b>Inserted:</b> '-where there is a commitment to reduce waste generated on site: a completed copy of Checklist Was.2b and Checklist Was.2d (if different from design stage)'
Was3	72	Pg 179, assessment criteria table.	Pg 180	<b>Deleted:</b> 'A Local Authority green/ kitchen waste collection system, including an automated waste collection system' <b>Inserted:</b> 'A Local Authority green/kitchen waste collection system (this can include an automated waste collection system).'
	73	Pg 180, design stage evidence requirements	Pg 181	<b>Both instances of 'information booklet' deleted. Inserted:</b> 'information leaflet'.

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Issue ID	Ref.	Location April 2008 Technical Guide	Location October 2008 Technical Guide	Change
	74	Pg 181, facilities definition	Pg 182	<b>Deleted:</b> 'for home composting: space for a container in home and a exterior composter in dwelling' <b>Inserted:</b> 'for home composting: space for a kitchen waste container in the home and for an exterior composter.'
Pol1	75	Pg 188, Table: Cat 6.2 (title).	Pg 189	<b>Deleted:</b> 'Blowing agents deemed to satisfy the credits and believed to have a GWP of less than 5' <b>Inserted:</b> 'Blowing agents deemed to satisfy the issue requirements and/or believed to have a GWP of less than 5'
	76	Pg 187, Deemed to Satisfy definition	Pg 188	<b>Deleted:</b> 'All are currently believed to have a GWP of less than 5.'
Man1	77	Pg 236, background, fifth sentence.	Pg 237	<b>Deleted:</b> 'had a similar problem, and' from 'Around the same time, Westminster had a similar problem, and developed Considerate Builders for use in its Borough.'
Eco2	78	Pg 257, post construction stage evidence requirements	Pg 258	<b>Deleted:</b> 'The assessor must provide confirmation that there is either a contract in place or a letter confirming when the planting will be complete, which must be within 18 months from completion.' <b>Inserted:</b> 'The assessor must provide confirmation that there is either a contract in place or a letter confirming when the planting will be complete, which must be within 12 months from completion.'
Eco4	79	Pg 265, assessment criteria table.	Pg 266	<b>Deleted:</b> 'Minor negative change: between -9 and -3' <b>Inserted:</b> 'Minor negative change: between -9 and less than or equal to -3'

Code for Sustainable Homes October 2008 Update Summary of Changes				
Issue ID	Ref.	Location April 2008 Technical Guide	Location October 2008 Technical Guide	Change
Eco4	80	Pg 265, assessment criteria table.	Pg 266	<b>Deleted:</b> 'Neutral: between -3 and +3' <b>Inserted:</b> 'Neutral: greater than -3 and less than or equal to +3'
	81	Pg 265, assessment criteria table.	Pg 266	<b>Deleted:</b> 'Minor enhancement: between +3 and +9' <b>Inserted:</b> 'Minor enhancement: greater than 3 and less than or equal to 9'
Eco5	82	Pg 275, assessment criteria.	Pg 276	<b>Deleted:</b> 'Credits are awarded where the ratio of combined net floor area of all dwellings on the site to their footprint (as measured by the total net internal ground floor area) is as follows:' <b>Inserted:</b> 'This issue is assessed on a site wide basis. Credits are awarded where the ratio of combined net internal floor area to footprint area (as measured by the total net internal ground floor area of all dwellings on the site) meets the requirements defined below: Individual dwellings (i.e. detached, semi-detached and terraces, not individual flats) that are not subject to a Code assessment, can be excluded from the assessment of this issue.'
	83	Pg 276, definition of Net Internal Floor Area.	Pg 277	<b>Deleted:</b> 'The area of all habitable spaces. This includes the area taken up by halls, stairwells, cupboards, internal partitions, habitable loft spaces and basements.' <b>Inserted:</b> 'The area of all habitable spaces. This includes the area taken up by halls, stairwells, cupboards, internal partitions, habitable loft spaces and basements. This also includes common areas of blocks of flats and apartment buildings including stairwells, circulation spaces and entrance lobbies.'

### Code for Sustainable Homes October 2008 Update Summary of Changes

Issue ID	Ref.	Location April 2008 Technical Guide	Location October 2008 Technical Guide	Change
	<b>84</b>	Pg 278, calculation procedures, point 2	Pg 279	<b>Deleted:</b> 'x 100' from site wide footprint to floor area ratio.

**Table 1: LZC Contribution and CO<sub>2</sub> Savings**

All values to be taken from the box numbers described within the worksheets set out in the Government's Standard Assessment Procedure for the Energy Rating of Dwellings, 2005 edition, revision 1, January 2008.		kWh/year supplied	Carbon emissions factor (from SAP 2005)	Emissions Kg/CO <sub>2</sub> /yr	
	Systems assessed with Section 12a of SAP – Individual Heating Systems – Community Heating without CHP	Systems assessed with Section 12b of SAP – Community Heating Systems with CHP – Heat Recovered from Power Stations	(A)	(B)	(C) = (A) × (B)
1	CO <sub>2</sub> emissions from space heating & hot water from Standard case SAP worksheet  [SAP box 107]  See note [1]				
2	CO <sub>2</sub> emissions for fans and pumps from Standard case SAP worksheet  [SAP box 108]  See note [1]				
3	CO <sub>2</sub> emissions from lighting from Standard case SAP worksheet  [SAP box 109]  See note [1]				
4	CO <sub>2</sub> emissions from mechanical cooling  See note [2], [5]		× 0.422		
5	CO <sub>2</sub> emissions from appliances and cooking  See note [3]				
6	Total CO <sub>2</sub> emissions from Standard case SAP system  (1+2+3+4+5)				
7	CO <sub>2</sub> emissions for fans and pumps from As Built SAP worksheet  [SAP box 108]  See note [1]	CO <sub>2</sub> emissions for fans and pumps from As Built SAP worksheet  [SAP box 114*]  See note [1]			
8	Reduction in CO <sub>2</sub> emissions for pumps and fans from LZC systems in As Built dwelling  (2–7)  See note [4]				

**Table 1: LZC Contribution and CO<sub>2</sub> Savings**

All values to be taken from the box numbers described within the worksheets set out in the Government's Standard Assessment Procedure for the Energy Rating of Dwellings, 2005 edition, revision 1, January 2008.		kWh/year supplied	Carbon emissions factor (from SAP 2005)	Emissions Kg/CO <sub>2</sub> /yr	
	Systems assessed with Section 12a of SAP – Individual Heating Systems – Community Heating without CHP	Systems assessed with Section 12b of SAP – Community Heating Systems with CHP – Heat Recovered from Power Stations	(A)	(B)	(C) = (A) × (B)
9	CO <sub>2</sub> emissions from space heating & hot water from As Built SAP worksheet (where applicable)  (SAP box 107)				
10	CO <sub>2</sub> reduction for space and hot water from LZC technologies considered in SAP  (1–9)				
11	CO <sub>2</sub> reduction from electricity generated by LZC technologies considered in SAP 2005  [SAP box 110 – SAP box 111]  See notes [5], [6] and [7]	CO <sub>2</sub> reduction from electricity generated by LZC technologies considered in SAP 2005  [SAP box 117* – SAP box 118*]  See notes [5], [6] and [7]			
12	CO <sub>2</sub> reduction from additional allowable electricity generation considered in section 14 of SAP 2005 v9.81  (–1) × [SAP box ZC7 × SAP box 5]  See notes [7] and [8]				
13	CO <sub>2</sub> reduction from Hot Water generated by LZC technologies considered in SAP 2005  [SAP box 50]  See notes [5], [6] and [7]		× Emissions Factor		
14	Residual CO <sub>2</sub> emissions offset for from biomass CHP (where applicable)  (–1) × [SAP box 115*]  OR  (–1) × [(SAP boxes 108* to 113*)], if SAP box 114* or 115* is set to "0"  OR  Code level 6: ((–1) × [SAP Box ZC5 × SAP box 5])				

**Table 1: LZC Contribution and CO<sub>2</sub> Savings**

All values to be taken from the box numbers described within the worksheets set out in the Government's Standard Assessment Procedure for the Energy Rating of Dwellings, 2005 edition, revision 1, January 2008.		kWh/year supplied	Carbon emissions factor (from SAP 2005)	Emissions Kg/CO <sub>2</sub> /yr	
	Systems assessed with Section 12a of SAP – Individual Heating Systems – Community Heating without CHP	Systems assessed with Section 12b of SAP – Community Heating Systems with CHP – Heat Recovered from Power Stations	(A)	(B)	(C) = (A) × (B)
15	CO <sub>2</sub> reduction from LZC electricity generation (11 + 12)				
16	CO <sub>2</sub> reduction from LZC thermal generation (10 + 13 + 14)				
17	Total CO <sub>2</sub> reduction from specified LZC technologies (8 + 15 + 16)				
<b>Calculation of percentage CO<sub>2</sub> saving as a result of specifying LZC technologies</b>					
18	CO <sub>2</sub> saving as a percentage of standard case CO <sub>2</sub> emissions [(17 / 6) x 100%]		% Reduction in CO <sub>2</sub> Emissions		

## Notes to table Cat 1.4

- [1] Space heating, hot water, lighting, pumps and fans from SAP 2005 Version 9.81 worksheet.
- [2] Mechanical cooling is not currently dealt with under SAP 2005 version 9.81. If mechanical cooling is specified, it will need to be estimated separately. Contact your Code service provider for further guidance.
- [3] Kg CO<sub>2</sub>/year from appliances and cooking. See Ene 1:  

$$99.9 \times TFA (TFA \times N)^{0.4714} - (3.267 \times TFA) + (32,23 \times N) + 72.6$$
 Where TFA is the total floor area and N is the number of occupants  
 For TFA < 43m<sup>2</sup>; N = 1.46  
 For TFA > 43m<sup>2</sup>; N = 2.844 × (1 – exp(–0.000391 × TFA<sup>2</sup>))
- [4] This value may be negative
- [5] Carbon emissions factor from SAP 2005 Version 9.81 worksheet to be used. The most common are listed below. Please see SAP table 12 for further details.  
 Grid Electricity = 0.422 Kg CO<sub>2</sub>/kWh  
 Electricity displaced = 0.568 Kg CO<sub>2</sub>/kWh  
 Gas = 0.194 Kg CO<sub>2</sub>/kWh  
 Heating oil = 0.265 Kg CO<sub>2</sub>/kWh
- [6] If the value displayed in SAP boxes 110, 117\* or 50 is negative, consider the value as positive and enter a positive value.  
 e.g. if –250 is displayed, enter 250 within the table.
- [7] Where energy and LZC technologies service other users (e.g. mixed use developments), both the thermal and electrical output should be allocated between all users in relation to their proportional net floor area.
- [8] As determined in a separate feasibility study. Additional allowable electricity generation can now be entered in section 14 of SAP 2005 version 9.81. This may include:  
 Wind Turbines over 50kW  
 Large Scale Hydro  
 Fuel Cells using hydrogen generated from a ‘renewable’ source

**Table Cat 1.4: LZC Contribution and CO<sub>2</sub> Savings**

All values to be taken from the box numbers described within the worksheets set out in the Government's Standard Assessment Procedure for the Energy Rating of Dwellings, 2005 edition, revision 2, June 2008.			kWh/year supplied	Carbon emissions factor (from SAP 2005)	Emissions Kg/CO <sub>2</sub> /yr
	Systems assessed with Section 12a of SAP – Individual Heating Systems – Community Heating without CHP	Systems assessed with Section 12b of SAP – Community Heating Systems with CHP – Heat Recovered from Power Stations	(A)	(B)	(C) = (A) × (B)
<b>Emissions from STANDARD system specification</b>					
1	CO <sub>2</sub> emissions from space heating & hot water from Standard case SAP 2005 DER worksheet [SAP box 107] See note [1]				
2	CO <sub>2</sub> emissions for fans and pumps from Standard case SAP 2005 DER worksheet [SAP box 108] See note [1]				
3	CO <sub>2</sub> emissions from lighting from Standard case SAP 2005 DER worksheet [SAP box 109] See note [1]				
4	CO <sub>2</sub> emissions from mechanical cooling See note [2]			× 0.422	
5	CO <sub>2</sub> emissions from appliances and cooking See note [3]				
6	Total CO <sub>2</sub> emissions from Standard case SAP system (1+2+3+4+5)				
<b>Emissions from ACTUAL system specification</b>					
7	CO <sub>2</sub> emissions for fans and pumps from SAP 2005 DER worksheet [SAP box 108] See note [1]	CO <sub>2</sub> emissions for fans and pumps from SAP 2005 DER worksheet [SAP box 114*] See note [1]			
8	Reduction in CO <sub>2</sub> emissions for pumps and fans from LZC systems in actual dwelling (2–7) See note [4]				

<b>Table Cat 1.4: LZC Contribution and CO<sub>2</sub> Savings</b>					
All values to be taken from the box numbers described within the worksheets set out in the Government's Standard Assessment Procedure for the Energy Rating of Dwellings, 2005 edition, revision 2, June 2008.		kWh/year supplied	Carbon emissions factor (from SAP 2005)	Emissions Kg/CO <sub>2</sub> /yr	
	Systems assessed with Section 12a of SAP – Individual Heating Systems – Community Heating without CHP	Systems assessed with Section 12b of SAP – Community Heating Systems with CHP – Heat Recovered from Power Stations	(A)	(B)	(C) = (A) × (B)
9	CO <sub>2</sub> emissions from space heating & hot water from SAP 2005 DER worksheet (where applicable) (SAP box 107)				
10	CO <sub>2</sub> reduction for space heating & hot water from LZC technologies covered by SAP (1–9)				
11	CO <sub>2</sub> reduction from electricity generated by LZC technologies considered in SAP 2005  [SAP box 110 – SAP box 111]  See notes [5] and [6]	CO <sub>2</sub> reduction from electricity generated by LZC technologies considered in SAP 2005  [SAP box 117* – SAP box 118*]  See notes [5] and [6]			
12	CO <sub>2</sub> reduction from additional allowable electricity generation considered in section 14 of SAP 2005 v9.82  (–1) × [SAP box ZC7 × SAP box 5]  See notes [6] and [7]				
13	CO <sub>2</sub> emissions offset for systems assessed under section 12b of SAP (where applicable)  (–1) × [SAP box 115* – 114*]  OR where SAP box 115* is set to "0"  (–1) × (SAP boxes 108*+110*+111*+112*+113*)				
14	CO <sub>2</sub> reduction from LZC electricity generation (11 + 12)				
15	CO <sub>2</sub> reduction from LZC thermal generation (10 + 13)				
16	Total CO <sub>2</sub> reduction from specified LZC technologies (8 + 14 + 15)				
<b>Calculation of percentage CO<sub>2</sub> saving as a result of specifying LZC technologies</b>					
17	CO <sub>2</sub> saving as a percentage of standard case CO <sub>2</sub> emissions  [(16 / 6) × 100%]	% Reduction in CO <sub>2</sub> Emissions			

## Notes to table Cat 1.4

- [1] Space heating, hot water, lighting, pumps and fans from SAP 2005 v9.82 DER worksheet. Please note that to demonstrate compliance with this issue, the SAP output including the assumptions made for calculation of the DER must be used. The name of this output may vary from one software package to another.
- [2] Mechanical cooling is not currently dealt with under SAP 2005 version 9.82. If mechanical cooling is specified, it will need to be estimated separately. Contact your Code service provider for further guidance.
- [3] Kg CO<sub>2</sub>/year from appliances and cooking. See Ene 1:  

$$99.9 \times TFA (TFA \times N)^{0.4714} - (3.267 \times TFA) + (32,23 \times N) + 72.6$$
 Where TFA is the total floor area and N is the number of occupants  
 For TFA < 43m<sup>2</sup>; N = 1.46  
 For TFA > 43m<sup>2</sup>; N = 2.844 × (1 – exp(–0.000391 × TFA<sup>2</sup>))
- [4] This value is often negative
- [5] If the value displayed in SAP boxes 110 or 117\* is negative, consider the value positive when entering it into table Cat 1.4.
- [6] Where energy and LZC technologies service other users (e.g. mixed use developments), both the thermal and electrical output should be allocated between all users in relation to their proportional net floor area.
- [7] SAP now considers additional allowable electricity generation to enable net CO<sub>2</sub> emissions to be calculated. The input of this generation is allowed across all Code levels.

Please see SAP appendix M and SAP section 14 for acceptable technologies and configurations.

Step 12 of table Cat 1.4 refers to SAP box ZC7. It is necessary to refer to the Stamp Duty Land Tax (SDLT) exemption calculator to obtain the figure from box ZC7, where additional allowable electricity is being considered for the Ene 7 assessment.

<http://projects.bre.co.uk/sap2005/stamp-duty-land-tax.html>

Please note that for the purposes of the Ene 7 calculation it is only necessary to refer to box ZC7. The other outputs from the SDLT calculator do not impact on the outcome of the Ene 7 assessment.

Criteria		
	Credits	Mandatory Elements
<p>Ensure that the peak rate of runoff into watercourses is no greater for the developed site than it was for the pre-development site (see definition). This should comply with the Interim Code of Practice for Sustainable Drainage systems (SUDS) (CIRIA, 2004), or for at least the 1 year and 100 year return period events.</p> <p>For sites of less than 200ha, the calculation of Greenfield runoff rates should be in accordance with Flood estimation for small catchments (Marshall and Bayliss, 1994) and any subsequent updates.</p> <p>For sites of 200ha and more, the calculation of Greenfield runoff rates should be in accordance with the Flood estimation handbook (Centre for ecology and hydrology, 1999) and any subsequent updates.</p> <p>An allowance for climate change should be made in accordance with current best practice (PPS25, 2006).</p> <p>Ensure that the additional predicted volume of rainwater discharge caused by the new development, for a 1 in 100 year event of 6 hour duration including an allowance for climate change (PPS25, 2006), should be reduced using infiltration and/or made available for use in the dwelling as a replacement for potable water use in non-potable applications such as WC flushing or washing machine operation.</p> <p>Where this additional rainwater volume cannot be prevented from being discharged for any reason, for all events up to the 100-year return period, the peak discharge rate from the site should be reduced to:</p> <ul style="list-style-type: none"> <li>• the pre-development site's estimated mean annual flood flow rate (Qbar);</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>• 2l/s/ha;or</li> <li>• a minimum flow rate (litres per second), based on good practice guidelines to prevent easy blockage, by ensuring the outlet throttle is not too small.</li> </ul> <p>If rainwater is discharged to a public sewer or adopted surface water sewer, flow rate requirements will be defined by the Sewerage undertaker.</p>	None	All Levels
<p>2 credits are available for using SUDS to improve water quality of the rainwater discharged or for protecting the quality of the receiving waters by:</p> <ol style="list-style-type: none"> <li>1. Ensuring no discharge to the watercourse for rainfall depths up to 5mm (follow guidance in the Interim Code of Practice for Sustainable Drainage systems (SUDS) (CIRIA, 2004).</li> </ol> <p>or</p> <ol style="list-style-type: none"> <li>2. Establish agreements for the ownership, long term operation and maintenance of all sustainable drainage elements used</li> </ol>	2	
<p>Default Cases:</p> <p>Credits can be awarded by default if the site discharges rainwater directly to a tidal estuary or the sea, because compliance with discharge flow rate requirements will not be required.</p>		

Criteria		
	Credits	Mandatory Elements
<p><b>1) Peak Rate of Runoff</b></p> <p>Ensure that the peak rate of runoff into watercourses is no greater for the developed site than it was for the pre-development site (see definition). This should comply with the Interim Code of Practice for Sustainable Drainage systems (SUDS) (CIRIA, 2004), or for at least the 1 year and 100 year return period events.</p> <p>Calculation Criteria:</p> <ul style="list-style-type: none"> <li>For sites of <b>less than 200ha</b>, the calculation of Greenfield runoff rates should be in accordance with Flood estimation for small catchments (Marshall and Bayliss, 1994) and any subsequent updates.</li> <li>For sites of <b>200ha and more</b>, the calculation of Greenfield runoff rates should be in accordance with the Flood estimation handbook (Centre for ecology and hydrology, 1999) and any subsequent updates.</li> <li>An <b>allowance for climate change</b> should be made in accordance with current best practice (PPS25, 2006).</li> </ul> <p><b>2) Volume of Runoff</b></p> <p>Ensure that the additional predicted volume of rainwater discharge caused by the new development, for a 1 in 100 year event of 6 hour duration including an allowance for climate change (PPS25, 2006), is reduced using infiltration and/or made available for use in the dwelling as a replacement for potable water use in non-potable applications such as WC flushing or washing machine operation.</p> <p>Where this additional rainwater volume cannot be prevented from being discharged for any reason, for all events up to the 100-year return period, the peak discharge rate from the site should be reduced to:</p> <ul style="list-style-type: none"> <li>the pre-development site's estimated mean annual flood flow rate (<math>Q_{bar}</math>); or</li> <li>2l/s/ha; or</li> <li>a minimum flow rate (litres per second), based on good practice guidelines to prevent easy blockage, by ensuring the outlet throttle is not too small; or</li> <li>a flow rate defined by the Sewerage Undertaker (if rainwater is discharged to a public sewer or adopted surface water sewer).</li> </ul>	None	All Levels
<p>2 credits are available for using SUDS to improve water quality of the rainwater discharged or for protecting the quality of the receiving waters by:</p> <ol style="list-style-type: none"> <li>Ensuring no discharge to the watercourse for rainfall depths up to 5mm. Follow guidance in the Interim Code of Practice for Sustainable Drainage systems, (CIRIA, 2004).</li> </ol> <p>OR</p> <ol style="list-style-type: none"> <li>Establish agreements for the ownership, long term operation and maintenance of all sustainable drainage elements used</li> </ol>	2	
<p><b>Default Cases:</b></p> <p>Credits can be awarded by default if the site discharges rainwater directly to a tidal estuary or the sea, because compliance with discharge flow rate requirements will not be required.</p>		

Criteria		
	Credits	Mandatory Elements
<p>Storage of non-recyclable waste</p> <p>The space allocated for waste storage should be able to hold containers with a volume of containers provided for waste storage should be at least the minimum recommended by British Standard BS 5906 (British Standards, 2005) i.e. 100 litres volume for a single bedroom dwelling, with a further 70 litres volume for each additional bedroom.</p> <p>A Local Authority recycling scheme offering containers equal to or greater than this volume would meet the requirement, providing adequate external space is allocated to accommodate them. If the Local Authority provides containers with a smaller volume, or if no Local Authority scheme exists, the developer will need to ensure and demonstrate that the minimum recommended volume is met.</p> <p>All containers must be accessible to disabled people (Checklist Was 1), particularly wheelchair users, and sited on a hard, level surface. To allow easy access, the containers must not be stacked.</p>	None	All Levels
<p><b>Storage of recyclable household waste</b></p> <p>98145.452</p> <p>At least, three internal storage bins:</p> <ul style="list-style-type: none"> <li>• all located in an adequate internal space</li> <li>• no individual bin smaller than 15 litres</li> <li>• minimum total capacity 60 litres</li> </ul>	2	
<p>A combination of internal storage capacity, provided in an adequate internal space, with:</p> <ul style="list-style-type: none"> <li>• either a Local Authority Collection Scheme; or</li> <li>• adequate external storage.</li> </ul> <p>A <b>Local Authority Collection Scheme</b> must meet at least one of the following requirements:</p> <p>where recyclable household waste is sorted <b>after</b> collection and at least a single 30 litre bin is provided in an adequate internal space (and with a collection of at least fortnightly)</p> <p>where materials are sorted <b>before</b> collection and at least three separate bins are provided with 30 litres total capacity. Every bin provided must have at least 7 litres capacity and be located in an adequate internal space (and with a collection of at least fortnightly)</p> <p>an automated waste collection system which collects at least 3 different types of recyclable waste</p> <p>External storage space, but no Local Authority collection scheme There must be at least three identifiably different internal storage bins for recyclable waste, located in an adequate internal space:</p> <ul style="list-style-type: none"> <li>• with a minimum total capacity of 30 litres</li> <li>• where every bin has at least 7 litres capacity</li> </ul> <p>AND</p> <p>For houses, an adequate external space must be provided for storing, at least, three external bins for recyclable waste:</p> <ul style="list-style-type: none"> <li>• all bins should be located within 30 m* of an external door.</li> </ul>	4	

Criteria		
	Credits	Mandatory Elements
<p>For blocks of flats, a <i>private recycling scheme</i> operator must be appointed to maintain bins and collect recyclable waste regularly. Recycling containers must:</p> <ul style="list-style-type: none"> <li>• be located in an adequate external space</li> <li>• be sized according to the frequency of collection, based on guidance from the recycling scheme operator</li> <li>• store at least 3 types of recyclable waste in identifiably different bins</li> <li>• be located within 30 m* of an external door.</li> </ul> <p>* Where strategic reasons outside the control of the developer make it impossible to meet this requirement, the maximum allowable distance is 50 m, and a written justification must be provided to the Code Service Provider.</p>		
<p><b>Default Cases</b></p> <p>None</p>		

Criteria		
	Credits	Mandatory Elements
<p><b>Storage of household waste</b></p> <p>The space allocated for waste storage should be able to accommodate containers with at least the minimum volume recommended by British Standard 5906 (British Standards, 2005) based on a maximum collection frequency of once per week. This is 100 litres volume for a single bedroom dwelling, with a further 70 litres volume for each additional bedroom.</p> <p>A Local Authority recycling scheme offering containers equal to or greater than this volume would meet the requirement, providing adequate external space is allocated to accommodate them. If the Local Authority provides containers with a smaller volume, or if no Local Authority scheme exists, the developer will need to ensure and demonstrate that the minimum volume according to BS 5906 2005 and defined above, is met.</p> <p>All containers must be accessible to disabled people (checklist Was 1), particularly wheelchair users, and sited on a hard, level surface. To ensure easy access, the containers must not be stacked.</p>	None	All Levels
<p><b>Storage of recyclable household waste</b></p> <p>Dedicated internal storage for recyclable household waste can be credited where there is no (or insufficient) dedicated external storage capacity for recyclable material, no Local Authority collection scheme and where the following criteria are met:</p> <p>At least, three internal storage bins:</p> <ul style="list-style-type: none"> <li>• all located in an adequate internal space</li> <li>• no individual bin smaller than 15 litres</li> <li>• with a minimum total capacity 60 litres</li> </ul>	2	
<p>A combination of internal storage capacity provided in an adequate internal space, with either:</p> <ul style="list-style-type: none"> <li>• a Local Authority collection scheme; or</li> <li>• No Local Authority collection scheme but adequate external storage capacity.</li> </ul> <p><b>Local Authority Collection Scheme</b></p> <p>In addition to a Local Authority Collection Scheme (with a collection frequency of at least fortnightly) at least one of the following requirements must be met:</p> <ul style="list-style-type: none"> <li>• where recyclable household waste is sorted <b>after</b> collection and at least a single 30 litre bin is provided in an adequate internal space.</li> <li>• where materials are sorted <b>before</b> collection and at least three separate bins are provided with 30 litres total capacity. Every bin must have a capacity of at least 7 litres and be located in an adequate internal space.</li> <li>• an automated waste collection system which collects at least 3 different types of recyclable waste.</li> </ul> <p><b>No Local Authority collection scheme but adequate external storage capacity</b></p> <p><b>For houses and flats</b>, there must be at least 3 identifiably different <b>internal</b> storage bins for recyclable waste, located in an adequate internal space:</p> <ul style="list-style-type: none"> <li>• with a minimum total capacity of 30 litres</li> <li>• where every bin has at least 7 litres capacity</li> </ul> <p><b>AND</b></p>	4	

Criteria		
	Credits	Mandatory Elements
<p><b>For houses</b>, an adequate <b>external</b> space must be provided for storing, at least, three external bins for recyclable waste:</p> <ul style="list-style-type: none"> <li>• with a minimum total capacity of 180 litres</li> <li>• with no bin smaller than 40 litres</li> <li>• all bins should be located within 30m* of an external door</li> </ul> <p><b>AND</b></p> <p><b>For blocks of flats</b>, a <i>private recycling scheme</i> operator must be appointed to maintain bins and collect recyclable waste regularly. Recycling containers must:</p> <ul style="list-style-type: none"> <li>• be located in an adequate <b>external</b> space</li> <li>• be sized according to the frequency of collection, based on guidance from the <i>recycling scheme operator</i></li> <li>• store at least 3 types of recyclable waste in identifiably different bins</li> <li>• be located within 30m* of an external door</li> </ul> <p>* Where strategic reasons outside the control of the developer make it impossible to meet this requirement, the maximum allowable distance is 50m, and a written justification must be provided to the Code Service Provider.</p>		
<p><b>Default Cases</b></p> <p>None</p>		

<b>Checklist Was 1 – Accessibility to waste storage space for disabled people*</b>			
<b>Criteria</b>	<b>Evidence demonstrating how criteria will be met</b>	<b>Reference</b>	<b>Tick</b>
<p>1) Access routes:</p> <p>Should be direct, free from obstructions, have a firm, slip resistant surface and allow easy manoeuvring of a wheelchair.</p> <p>If, the provision of a raised threshold is unavoidable, this should be of a height not more than 15 mm, with adequate and timely warning that there is a change in level.</p>			
<p>2) Turning circle of 1 800 mm diameter that allows a wheelchair user to turn and return in the other direction.</p>			
<p>3) Provision of signs and information for visually impaired people, with visual and tactile contrast according to the following guidance (6).</p>			
<p>4) Attention needs to be given to:</p> <ul style="list-style-type: none"> <li>• ability to reach</li> <li>• force required to open the container, the ease of opening and holding the container open while depositing waste using one hand (preferably with either hand)</li> <li>• operating requirements of doors and locks</li> </ul>			
<p>5) In the case of existing chutes, these need to be levelled for wheelchair user's access and suitably identified for visually impaired persons.</p>			
<p>6) Any other situations not considered in the previous criteria need to meet all the requirements in the following standards and guidance, whenever applicable:</p> <ul style="list-style-type: none"> <li>– British Standard 8300, (British Standards, 2001)</li> <li>– Disability Discrimination Act, 1995</li> <li>– Building Regulations Part M and Approved Document M</li> <li>– BS 5906:2005</li> </ul>			
<p>* the previously mentioned standards and guidance requirements always supersede this checklist</p>			

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<b>Criteria</b>	<b>Evidence demonstrating how criteria will be met</b>	<b>Reference</b>	<b>Tick</b>
<p>1) Access routes:</p> <p>Should be direct, free from obstructions and raised thresholds, have a suitable surface (as defined in Approved Document M, section 6.9), and allow easy manoeuvring of a wheelchair.</p> <p>If provision of a raised threshold is unavoidable, it should not be at a height of greater than 15mm, with adequate and timely warning that there is a change in level.</p> <p>Where changes in level are unavoidable, suitable ramps should be specified (as defined in Approved Document M, section 6.15).</p>			
2) A turning circle of at least 1500mm diameter should be provided to allow a wheelchair user to turn and return in the opposite direction.			
3) For communal bin stores, provision of signs and/or illumination and information for visually impaired people, with visual and tactile contrast should be specified according to the following guidance (see point 7 below).			
4) Heights to the centre of switches and controls need to be in accordance with the requirements set out in British Standard 8300 (British Standards, 2001)			
5) Attention needs to be given to the operating requirements of doors and locks.			
6) Existing refuse hoppers** must be located at a suitable height for wheelchair user access and suitably identifiable for visually impaired people			
<p>7) Any situations not considered in the criteria above must meet all requirements set out in the following guidance:</p> <p>– British Standard 8300, (British Standards, 2001)</p>			
<p>*Legislative requirements always supersede this checklist.</p> <p>**A fitting into which refuse is placed and from which it passes into a chute or directly into a refuse container. The fitting consists of a fixed frame and hood unit and a hinged or pivoted combined door and receiving unit, as defined in British Standard 1703 (British Standards, 2005).</p>			



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