

Sustainable Construction Pre-Application Checklist for New, Replacement and Converted Dwellings

Project description and location:	ERECTION OF PART THREE, PART TWO STOREY DWELLING WITH SINGLE STOREY ENTRANCE LOBBY TO FRONT, FOLLOWING DEMOLITION OF EXISTING PART TWO, PART ONE STOREY DWELLING (CLASS C3)	
Overall		
Will the development meet the Council's standard of Code for Sustainable Homes Level 3?	YES <input checked="" type="radio"/> NO <input type="radio"/>	
Will you have the developments' Code for Sustainable Homes rating independently assessed? (NB this is a planning requirement for developments of more than five dwellings)	YES <input type="radio"/> NO <input checked="" type="radio"/>	
Energy and CO₂		
Code for Sustainable Homes Level 3 requires that dwellings have an annual CO ₂ emissions rate 25% lower than the 2006 Building Regulations target emissions rate for that dwelling. To achieve this standard, which of the following measures will you include? (tick all that apply)		
• Increased insulation in the walls, roof, floor, windows and/or doors	<input checked="" type="checkbox"/>	
• Improved air tightness to reduce the infiltration of cold air from outside	<input checked="" type="checkbox"/>	
• Installing mechanical ventilation systems that can recover heat from outgoing air	<input checked="" type="checkbox"/>	
• Using building detail that minimises 'thermal bridging' (i.e. ensuring potential shortcuts for heat in the building envelope are insulated)	<input checked="" type="checkbox"/>	
• Installing a high efficiency boiler	<input checked="" type="checkbox"/>	
• Using best practice heating controls (separately controlled heating zones, weather compensation)	<input checked="" type="checkbox"/>	
• Connecting the dwelling to a district/communal heating system	<input checked="" type="checkbox"/>	
• Installing low carbon technologies (tick those that apply) (NB: providing 10% of a development's energy needs from low carbon technologies is a planning requirement for developments of more than 1000sqm floor area or five dwellings)		
Solar thermal (hot water) <input checked="" type="checkbox"/> Solar PV (electricity) <input type="checkbox"/> Wood stove <input type="checkbox"/> Wood boiler <input type="checkbox"/> Wind turbine <input type="checkbox"/> Heat pumps: ground source <input type="checkbox"/> or air source <input type="checkbox"/> Other _____		
Passive design can further reduce energy use. Which of the following passive design features are you adopting?		
• Orienting building to the south and putting the majority of glazing on the south elevation to maximise winter solar gain	YES YES / NO	
• Putting living spaces on the south side of the dwelling to benefit from natural warmth and light	YES YES / NO	
• Making use of natural shelter (e.g. trees) from the prevailing wind	YES YES / NO	
• Avoiding narrow or complicated building shapes that increase the ratio of surface area to volume enclosed	YES / YES	
• Ensuring glazed features such as conservatories and atria are unconditioned and thermally separated from the main dwelling	YES / NO / N/A	
Increasing temperatures mean there is an increasing risk of summer overheating in UK homes. Which of the following passive cooling strategies are you adopting?		
• Providing external solar shading in summer, especially to glazing (e.g. deciduous trees, climbing plants, louvers, shutters, awnings and/or overhangs)	YES / YES	
• Allowing 'cross ventilation' by providing opening windows and internal layout such that air can flow freely through the building from one side to the other	YES / YES	

<ul style="list-style-type: none"> Including 'thermal mass' within the dwelling (e.g. a masonry internal wall) to reduce temperature variations 	YES / NO
Water	
Code for Sustainable Homes Level 3 requires that dwellings are designed so average water consumption is less than 105 litres of water per day. To achieve this standard, which of the following measures will you include? (tick all that apply)	
<ul style="list-style-type: none"> 6/4 litre dual flush WCs 	<input checked="" type="checkbox"/>
<ul style="list-style-type: none"> Flow reducing/aerating spray taps throughout 	<input checked="" type="checkbox"/>
<ul style="list-style-type: none"> 6 - 9 litres per minute showerhead(s) 	<input type="checkbox"/>
<ul style="list-style-type: none"> A smaller, shaped bath 	<input checked="" type="checkbox"/>
<ul style="list-style-type: none"> 18 litre maximum volume dishwasher (if provided) 	<input checked="" type="checkbox"/>
<ul style="list-style-type: none"> 60 litre maximum volume washing machine (if provided) 	<input type="checkbox"/>
<ul style="list-style-type: none"> Water butts 	<input checked="" type="checkbox"/>
<ul style="list-style-type: none"> Grey water recycling 	<input type="checkbox"/>
<ul style="list-style-type: none"> Rainwater harvesting (NB: this also helps with surface water management) 	<input checked="" type="checkbox"/>
Waste	
Code for Sustainable Homes Level 3 requires that dwellings have a site waste management plan in place during construction and have adequate waste storage areas when completed. Will you meet these requirements?	YES / NO
Surface water management	
The Code for Sustainable Homes Level 3 requires that dwellings minimise or delay surface water run off to drains and waterways to reduce risk of flooding. Which of the following will you use to achieve this? (tick all that apply)	
<ul style="list-style-type: none"> Provision of soakaways 	<input type="checkbox"/>
<ul style="list-style-type: none"> Making the majority of paved surfaces permeable 	<input checked="" type="checkbox"/>
<ul style="list-style-type: none"> Rainwater harvesting 	<input type="checkbox"/>
Materials	
Code for Sustainable Homes Level 3 requires that a minimum number of materials are rated 'D' or better according to the Building Research Establishment's Green Guide. Will you meet this requirement?	YES / NO
Other	
Code for Sustainable Homes requires that you accumulate sufficient points to meet the Level 3 standard. The meeting the mandatory parts of Level 3 generates some points, the remainder come from selecting 'free choice' (non-mandatory) measures. Which of the following 'free choice' measures will you include? (tick all that apply)	
<ul style="list-style-type: none"> Providing drying space (so tumble driers are not used) 	<input checked="" type="checkbox"/>
<ul style="list-style-type: none"> Providing more energy efficient lighting (both internally and externally) 	<input checked="" type="checkbox"/>
<ul style="list-style-type: none"> Providing cycle storage 	<input checked="" type="checkbox"/>
<ul style="list-style-type: none"> Providing a room that can easily be set up as a home office 	<input checked="" type="checkbox"/>
<ul style="list-style-type: none"> Providing recycling storage both within and outside the home 	<input checked="" type="checkbox"/>
<ul style="list-style-type: none"> Enhancing the security of the home 	<input checked="" type="checkbox"/>
<ul style="list-style-type: none"> Enhancing the sound insulation of the home 	<input checked="" type="checkbox"/>
<ul style="list-style-type: none"> Exceeding the minimum requirements of the mandatory parts of the Code 	<input type="checkbox"/>
Is there any further information on sustainability that you have included with your application?	YES (in separate report) / YES (in Design and Access Statement) / YES (on plans) / NO