

CODE FOR SUSTAINABLE HOMES

GUIDE TO MEET CODE LEVELS 3-6



File = Code-G2

A specification guide to meeting Code for Sustainable Homes Levels 3-6.

Please note, this is meant as a guide only. Each site and design will alter the scoring, therefore you will need to get a full Code Pre-Assessment report carried out prior to work commencing on site.

Please contact us should you require a free no obligation quote for SAP, Code for Sustainable Homes, or any other service that we offer.

Therm Energy Ltd

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Code Assesments/Certification - SAP/EPC - Water Use (Part G) - SBEM - Air Leakage & Sound Testing



TYPICAL SPECIFICATION TO MEET CODE LEVEL 3 (NO SOLAR)

Construction and Insulation			
Element			
Exposed Wall 102.5mm facing brick (or rendered/clad block) outer leaf + 100mm cavity with 50mm Celotex or 100mm Dritherm 34 insulation + 100mm Celcon Standard 3.6N block inner leaf + plasterboard on dabs internal finish.			
<u>Party Walls</u> (if applicable) : Robust Detail E-WM-17 100mm medium dense concrete block (1350-1600kg/m³) inner and outer leaf (or Plasmor Aglite Ultima) + 75mm cavity with 75mm Isover Party Wall Roll SD + plasterboard (9.8kg/m²) on dabs finish both sides (edges fully sealed).			
<u>Ground Floor</u> Screed or chipboard + 100mm Celotex GA4000 or FF4000 insulation + suspended beam and block concrete floor. <u>Upper Floor</u> Suspended timber (with 200mm mineral wool quilt where exposed - eg over garages).			
<u>Roof</u> (roof voids) Tiles on battens + trussed timber rafters + 400mm mineral wool insulation quilt (100mm between joists + 300mm over). <u>Roof</u> (sloping ceilings) 100mm Celotex GA4000 insulation (between rafters) + 35mm or 40mm Celotex TB4000 insulation (under rafters).			
<u>Vindows/Doors/Rooflights</u> VC-u or timber or thermally-broken metal or composite frame double-glazed + 16mm cavity (argon gas fill) + oft coat low-E glass, or similar to achieve U-value of 1.60W/m²K, or Window Energy Rating (WER) Band C.			
<u>Detailing</u> Accredited construction details (robust details : limiting thermal bridging and air leakage) adopted : see www.planningpor The dwelling must be constructed to this standard, and the relevant forms must be completed as building work progress			
<u>Air Tightness</u> Design air permeability is TBCm³/h/m² at 50 Pa - to be achieved by air pressure test (Therm Energy Ltd can provide this	s service).		
<u>Global Warming Potential</u> (GWP) All insulation materials, including cylinder, pipes, loft hatch and doors, have a GWP less than 5.			
Heating, Ventilation & Renewables			
Main Heating System (option 1) Conventional (mains) gas-fired central heating with radiators and/or underfloor heating. Condensing boiler (A rated), NO Main Heating System (option 2) Air source heat pump (ASHP) or ground source heat pump (GSHP) with radiators and/or underfloor heating (preferably	-		
	UFH).		

None (or wood burning stove if possible - wood only).

Heating Controls

Time and temperature zone controls (with delayed start room thermostats) + boiler interlock + enhanced load or weather compensator.

Ventilation

Background ventilators & intermittent extract fans, or passive stack ventilation (Approved Document F1, 2010).

Renewables

None (other than heat pump if heating system option 2 above).

<u>Other</u>

Water Use (internal)

Water consumption 105 litres/person/day or less (water efficient fittings and appliances will be required). For example, water use not to exceed : taps 5 litres/min, showers 8 litres/min, bath 145 litres capacity (to overflow), toilets dual-flush (6/4 litres). Water Use (external)

Water butt (150 or 200 litres, depending upon size of dwelling) on firm base with child-proof lid and tap, connected to rainwater downpip with automatic overflow to main drainage system. Colour must be opaque.

Surface Water (run-off & flood risk)

Peak rate of run-off to watercourses is no greater for the developed site than it was for the pre-developed site. A suitably qualified engineer or consultant will need to carry out calculations and provide design (engineer or consultant to be appointed at design stage).

Lighting (internal + external space lighting)

100% of light fittings are dedicated low-energy (lamp luminous efficacy > 45 lumens/circuit watt, total output > 400 lamp lumens).

Home Office/Study

Suitable room/space. Area to have openable window, 2 power sockets, and 1-2 telephone points (1 if broadband/cable available).

Drying Space (internal or external)

Adequate and suitable secure space with posts and footings (or fixings) capable of holding 6m+ of drying line.

Cycle Storage

Adequate secure, convenient, and weather-proof storage to be provided in a garage (on racks) or shed. Storage must be of the correct size (the lock must be a mortice deadlock or sash lock to BS3621 for doors > 44mm thick, or "sold secure" padlock etc).

Energy-Labelled White Goods

Fridges and freezers = A+ rated. Washing machines and dishwashers = A rated. Washer/tumble-dryers (optional) = B rated. Information on the EU Energy Efficiency labelling scheme (minimum standard) to be provided.

Energy Display Device (may not be required in some cases)

Device that shows electricity and primary heating fuel consumption data (must include time, current mains energy consumption in kw and kw/hours, current emissions in g/kg CO2, current tariff, current cost in sterling, account balance, data - usage and historic).

Waste (recyclable non re-cyclable waste) external

Correctly sized container(s) total (assuming collection once per week), on hard level surface, with disabled access.

Waste (re-cyclable waste) internal

Local Authority collection scheme (sorted prior to collection). 3 bins (min 7 litres+ each, total min 30 litres+) to be provided in the kitchen, or utility room, or connected garage with internal access door (bins must be fixed in place, not free-standing).

Composting

Individual home composting facility in dedicated position (with access to disabled person), with an information leaflet.

Home User Guide

Home user guide (non-technical) to be provided to the end owner/occupier of the dwelling(s). Guide to provide information on the operation and environmental performance of both the dwelling(s) and surroundings.

Note 1 : This must be available in different formats, ie foreign language, braille, large print, or audio cassette/CD, where required.

Note 2 : Therm Energy Ltd can produce the guide for a cost of £215 + VAT (1 dwelling). Additional dwellings are £35 + VAT each.

Lifetime Homes

Principles of Lifetime Homes (16 criteria) fully adhered to. www.lifetimehomes.org.uk

Security (recommended, but not essential)

A member of the local police (ALO or CPDA) to be appointed as early as possible to advise on security, with their recommendations to be incorporated into the design of the dwelling. <u>www.securedbydesign.com</u>

Ecology

This will vary with each site. An ecology report may be required in some (suitable) cases.

Note 1 : This is a typical specification that would meet Code Level 3 requirements in most cases. However, each development would need to be assessed individually on its own merits to ensure the correct number of points (57) is achieved.

Note 2 : The above only provides basic detail in some cases. A Code Pre-Assessment Report (or the Code Technical Guide) will provide further details and guidance on the various criteria.



TYPICAL SPECIFICATION TO MEET CODE LEVEL 4

Construction and Insulation	
Element Exposed Wall 102.5mm facing brick (or rendered/clad block) outer leaf + 100mm cavity with 50mm Celotex FF5000 or 100mm Dritherm 32 insulation + 100mm Celcon Solar 2.9N block inner leaf + plasterboard on dabs internal finish.	
<u>Ground Floor</u> Screed or chipboard + 100mm Celotex GA4000 or FF4000 insulation + suspended beam and block concrete floor. <u>Upper Floor</u> Suspended timber (with 200mm mineral wool quilt where exposed - eg over garages).	
<u>Roof</u> (roof voids) Files on battens + trussed timber rafters + 400mm mineral wool insulation quilt (100mm between joists + 300mm over) <u>Roof</u> (sloping ceilings) 100mm Celotex GA4000 insulation (between rafters) + 35mm or 40mm Celotex TB4000 insulation (under rafters).	
<u>Vindows/Doors/Rooflights</u> VC-u or timber or thermally-broken metal or composite frame double-glazed + 16mm cavity (argon gas fill) + oft coat low-E glass, or similar to achieve U-value of 1.40W/m²K, or Window Energy Rating (WER) Band A.	
<u>Detailing</u> Accredited construction details (robust details : limiting thermal bridging and air leakage) adopted : see www.planningpo The dwelling must be constructed to this standard, and the relevant forms must be completed as building work progress	
<u>Air Tightness</u> Design air permeability is TBCm³/h/m² at 50 Pa - to be achieved by air pressure test (Therm Energy Ltd can provide this	s service).
<u>Global Warming Potential</u> (GWP) All insulation materials, including cylinder, pipes, loft hatch and doors, have a GWP less than 5.	
Heating, Ventilation & Renewables	
<u>Main Heating System</u> (option 1) Conventional (mains) gas-fired central heating with radiators and/or underfloor heating. Condensing boiler (A rated), NO <u>Main Heating System</u> (option 2) Air source heat pump (ASHP) or ground source heat pump (GSHP) with radiators and/or underfloor heating (preferably	_
<u>Secondary Heating System</u> None (or wood burning stove if possible - wood only).	

Heating Controls

Time and temperature zone controls (with delayed start room thermostats) + boiler interlock + enhanced load or weather compensator.

Ventilation

Background ventilators & intermittent extract fans, or passive stack ventilation (Approved Document F1, 2010).

Renewables

Solar pv (electric) - area of panels depends upon size of dwelling, choice of heating system and other factors. In some cases it may be possible to negate the need for solar pv.

<u>Other</u>

Water Use (internal)

Water consumption 105 litres/person/day or less (water efficient fittings and appliances will be required). For example, water use not to exceed : taps 5 litres/min, showers 8 litres/min, bath 145 litres capacity (to overflow), toilets dual-flush (6/4 litres).

Water Use (external)

Water butt (150 or 200 litres, depending upon size of dwelling) on firm base with child-proof lid and tap, connected to rainwater downpip with automatic overflow to main drainage system. Colour must be opaque.

Surface Water (run-off & flood risk) 4 credits

Peak rate of run-off to watercourses is no greater for the developed site than it was for the pre-developed site. A suitably qualified engineer or consultant will need to carry out calculations and provide design (engineer or consultant to be appointed at design stage).

Lighting (internal + external space lighting)

100% of light fittings are dedicated low-energy (lamp luminous efficacy > 45 lumens/circuit watt, total output > 400 lamp lumens).

Home Office/Study

Suitable room/space. Area to have openable window, 2 power sockets, and 1-2 telephone points (1 if broadband/cable available).

Drying Space (internal or external)

Adequate and suitable secure space with posts and footings (or fixings) capable of holding 6m+ of drying line.

Cycle Storage

Adequate secure, convenient, and weather-proof storage to be provided in a garage (on racks) or shed. Storage must be of the correct size (the lock must be a mortice deadlock or sash lock to BS3621 for doors > 44mm thick, or "sold secure" padlock etc).

Energy-Labelled White Goods

Fridges and freezers = A+ rated. Washing machines and dishwashers = A rated. Washer/tumble-dryers (optional) = B rated. Information on the EU Energy Efficiency labelling scheme (minimum standard) to be provided.

Energy Display Device

Device that shows electricity and primary heating fuel consumption data (must include time, current mains energy consumption in kw and kw/hours, current emissions in g/kg CO2, current tariff, current cost in sterling, account balance, data - usage and historic).

Waste (recyclable non re-cyclable waste) external

Correctly sized container(s) total (assuming collection once per week), on hard level surface, with disabled access. <u>Waste</u> (re-cyclable waste) internal

Local Authority collection scheme (sorted prior to collection). 3 bins (min 7 litres+ each, total min 30 litres+) to be provided in the kitchen, or utility room, or connected garage with internal access door (bins must be fixed in place, not free-standing).

Composting

Individual home composting facility in dedicated position (with access to disabled person), with an information leaflet.

Site Waste Management Plan (SWMP)

Plan must be implemented to include benchmarks, procedures and commitments for diverting at least 50% of waste from landfill (ideally 85% of waste diverted from landfill).

Construction Site Impacts

Monitoring, reporting, and achieving best practice policies, plus 80% of timber is responsibly sourced or reclaimed/re-used.

<u>Home User Guide</u>

Home user guide (non-technical) to be provided to the end owner/occupier of the dwelling(s). Guide to provide information on the operation and environmental performance of both the dwelling(s) and surroundings.

Note 1 : This must be available in different formats, ie foreign language, braille, large print, or audio cassette/CD, where required.

Note 2 : Therm Energy Ltd can produce the guide for a cost of £215 + VAT (1 dwelling). Additional dwellings are £35 + VAT each.

Lifetime Homes

Principles of Lifetime Homes (16 criteria) fully adhered to. www.lifetimehomes.org.uk

Security

A member of the local police (ALO or CPDA) to be appointed as early as possible to advise on security, with their recommendations to be incorporated into the design of the dwelling. <u>www.securedbydesign.com</u>

Ecology

This will vary with each site. An ecology report will be required (scoring 4-5 credits).

Note 1 : This is a typical specification that would meet Code Level 4 requirements in most cases. However, each development would need to be assessed individually on its own merits to ensure the correct number of points (68) is achieved.

Note 2 : The above only provides basic detail in some cases. A Code Pre-Assessment Report (or the Code Technical Guide) will provide further details and guidance on the various criteria.



TYPICAL SPECIFICATION TO MEET CODE LEVEL 5

Element	<u>U-Value</u> (W/m²K)	
Exposed Wall 102.5mm facing brick (or rendered/clad block) outer leaf + 100mm cavity with 95mm Xtratherm CavityTherm nsulation + 100mm Celcon Solar 2.9N, 3.6N or 7.3N block inner leaf + plasterboard on dabs internal finish.	0.19	
Party Walls (if applicable) : Robust Detail E-WM-17 100mm medium dense concrete block (1350-1600kg/m ³) inner and outer leaf (or Plasmor Aglite Ultima) + 75mm cavity with 75mm Isover Party Wall Roll SD + plasterboard (9.8kg/m ²) on dabs finish both sides (edges fully sealed).		
<u>Ground Floor</u> Screed or chipboard + 120mm Celotex GA4000 or FF4000 insulation + suspended beam and block concrete floor. <u>Upper Floor</u> Suspended timber (with 100mm Celotex + 100mm mineral wool quilt where exposed - eg over garages).		
<u>Roof</u> (roof voids) Files on battens + trussed timber rafters + 400mm mineral wool insulation quilt (100mm between joists + 300mm over <u>Roof</u> (sloping ceilings) 100mm Celotex GA4000 insulation (between rafters) + 50mm Celotex GA4000 insulation (under rafters).	0.10 0.16	
<u>Windows/Doors/Rooflights</u> PVC-u or timber or thermally-broken metal or composite frame double-glazed + 16mm cavity (argon gas fill) + soft coat low-E glass, or similar to achieve U-value of 1.20W/m²K.		
<u>Detailing</u> Accredited construction details (robust details : limiting thermal bridging and air leakage) adopted : see www.planning The dwelling must be constructed to this standard, and the relevant forms must be completed as building work progre		
<u>Air Tightness</u> Design air permeability is TBCm³/h/m² at 50 Pa - to be achieved by air pressure test (Therm Energy Ltd can provide th	iis service).	
Materials All materials (basic building elements and finishing elements) to be responsibly sourced where possible.		
<u>Global Warming Potential</u> (GWP) All insulation materials, including cylinder, pipes, loft hatch and doors, have a GWP less than 5.		

Heating, Ventilation & Renewables

Main Heating System

Conventional (mains) gas-fired central heating with radiators and/or underfloor heating. Condensing boiler (A rated), NOx < 40mg/kWh. If mains gas not available, ground source heat pump or biomass

Secondary Heating System

None (or wood burning stove if possible - wood only).

Heating Controls

Time and temperature zone controls (with delayed start room thermostats) + boiler interlock + enhanced load or weather compensator.

Ventilation

Mechanical ventilation with heat recovery (SAP Appendix Q, mid-top of range efficiency). Possibly System 1 (Part F).

<u>Renewables</u>

Solar pv (electric) - area of panels depends upon size of dwelling, choice of heating system, and other factors.

<u>Other</u>

Water Use (internal)

Water consumption 80 litres/person/day or less (water efficient fittings and appliances will be required). For example, water use not to exceed : taps 5 litres/min, showers 8 litres/min, bath 145 litres capacity (to overflow), toilets dual-flush (6/4 litres). Rain-water harvesting or greywater recycling will need to be installed.

Water Use (external)

Water butt (150 or 200 litres, depending upon size of dwelling) on firm base with child-proof lid and tap, connected to rainwater downpipe, with automatic overflow to main drainage system. Colour must be opaque.

Surface Water (run-off & flood risk) 4 credits

Peak rate of run-off to watercourses is no greater for the developed site than it was for the pre-developed site. A suitably qualified engineer or consultant will need to carry out calculations and provide design (engineer or consultant to be appointed at design stage).

Lighting (internal + external space lighting)

100% of light fittings are dedicated low-energy (lamp luminous efficacy > 45 lumens/circuit watt, total output > 400 lamp lumens).

Home Office/Study

Suitable room/space. Area to have openable window, 2 power sockets, and 1-2 telephone points (1 if broadband/cable available).

Drying Space (internal or external)

Adequate and suitable secure space with posts and footings (or fixings) capable of holding 6m+ of drying line.

Cycle Storage

Adequate secure, convenient, and weather-proof storage to be provided in a garage (on racks) or shed. Storage must be of the correct size (the lock must be a mortice deadlock or sash lock to BS3621 for doors > 44mm thick, or "sold secure" padlock etc).

Energy-Labelled White Goods

Fridges and freezers = A+ rated. Washing machines and dishwashers = A rated. Washer/tumble-dryers (optional) = B rated. Information on the EU Energy Efficiency labelling scheme (minimum standard) to be provided.

Energy Display Device

Device that shows electricity and primary heating fuel consumption data (must include time, current mains energy consumption in kw and kw/hours, current emissions in g/kg CO2, current tariff, current cost in sterling, account balance, data - usage and historic).

Waste (recyclable non re-cyclable waste) external

Correctly sized container(s) total (assuming collection once per week), on hard level surface, with disabled access. <u>Waste</u> (re-cyclable waste) internal

Local Authority collection scheme (sorted prior to collection). 3 bins (min 7 litres+ each, total min 30 litres+) to be provided in the kitchen, or utility room, or connected garage with internal access door (bins must be fixed in place, not free-standing).

Composting

Individual home composting facility in dedicated position (with access to disabled person), with an information leaflet.

Site Waste Management Plan (SWMP)

Plan must be implemented to include benchmarks, procedures and commitments for diverting at least 85% of waste from landfill.

Construction Site Impacts

Monitoring, reporting, and achieving best practice policies, plus 80% of timber is responsibly sourced or reclaimed/re-used.

Considerate Constructors Scheme

Builder to be member of Considerate Constructors Scheme if possible (commitment to meet or go significantly beyond best practice).

Home User Guide

Home user guide (non-technical) to be provided to the end owner/occupier of the dwelling(s). Guide to provide information on the operation and environmental performance of both the dwelling(s) and surroundings.

Note 1 : This must be available in different formats, ie foreign language, braille, large print, or audio cassette/CD, where required.

Note 2 : Therm Energy Ltd can produce the guide for a cost of £215 + VAT (1 dwelling). Additional dwellings are £35 + VAT each.

Lifetime Homes

Principles of Lifetime Homes (16 criteria) fully adhered to. <u>www.lifetimehomes.org.uk</u>

Security

A member of the local police (ALO or CPDA) to be appointed as early as possible to advise on security, with their recommendations to be incorporated into the design of the dwelling. <u>www.securedbydesign.com</u>

Ecology

This will vary with each site. An ecology report will be required (scoring 4-5 credits).

Note 1 : This is a typical specification that would meet Code Level 5 requirements in most cases. However, each development would need to be assessed individually on its own merits to ensure the correct number of points (84) is achieved.

Note 2 : The above only provides basic detail in some cases. A Code Pre-Assessment Report (or the Code Technical Guide) will provide further details and guidance on the various criteria.

Note 3 : For heavily glazed dwellings, triple-glazing may need to be considered.



TYPICAL SPECIFICATION TO MEET CODE LEVEL 6

Element	<u>U-Value</u> (W/m²K)		
Exposed Wall 102.5mm facing brick (or rendered/clad block) outer leaf + 100mm cavity with 95mm Xtratherm CavityTherm nsulation + 100mm Celcon Solar 2.9N, 3.6N or 7.3N block inner leaf + plasterboard on dabs internal finish.	0.19		
Party Walls (if applicable) : Robust Detail E-WM-17 100mm medium dense concrete block (1350-1600kg/m ³) inner and outer leaf (or Plasmor Aglite Ultima) + 75mm cavity with 75mm Isover Party Wall Roll SD + plasterboard (9.8kg/m ²) on dabs finish both sides (edges fully sealed).			
<u>Ground Floor</u> Screed or chipboard + 150mm Celotex GA4000 or FF4000 insulation + suspended beam and block concrete floor. <u>Upper Floor</u> Suspended timber (with 100mm Celotex + 100mm mineral wool quilt where exposed - eg over garages).			
<u>Roof</u> (roof voids) Files on battens + trussed timber rafters + 400mm mineral wool insulation quilt (100mm between joists + 300mm over <u>Roof</u> (sloping ceilings) 100mm Celotex GA4000 insulation (between rafters) + 50mm Celotex TB4000 insulation (under rafters).	0.10 0.16		
<u>Windows/Doors/Rooflights</u> PVC-u or timber or thermally-broken metal or composite frame double-glazed + 16mm cavity (argon gas fill) + soft coat low-E glass, or similar to achieve U-value of 1.20W/m²K.			
<u>Detailing</u> Accredited construction details (robust details : limiting thermal bridging and air leakage) adopted : see www.planning The dwelling must be constructed to this standard, and the relevant forms must be completed as building work progre			
<u>Air Tightness</u> Design air permeability is TBCm³/h/m² at 50 Pa - to be achieved by air pressure test (Therm Energy Ltd can provide th	iis service).		
<u>Materials</u> All materials (basic building elements and finishing elements) to be responsibly sourced.			
<u>Global Warming Potential</u> (GWP) All insulation materials, including cylinder, pipes, loft hatch and doors, have a GWP less than 5.			

Heating, Ventilation & Renewables

Main Heating System

Conventional (mains) gas-fired central heating with radiators and/or underfloor heating. Condensing boiler (A rated), NOx < 40mg/kWh. If mains gas not available, ground source heat pump or biomass

Secondary Heating System

None (or wood burning stove if possible - wood only).

Heating Controls

Time and temperature zone controls (with delayed start room thermostats) + boiler interlock + enhanced load or weather compensator.

Ventilation

Mechanical ventilation with heat recovery (SAP Appendix Q, top of range efficiency).

<u>Renewables</u>

Solar pv (electric) - area of panels depends upon size of dwelling, choice of heating system, and other factors.

<u>Other</u>

Water Use (internal)

Water consumption 80 litres/person/day or less (water efficient fittings and appliances will be required). For example, water use not to exceed : taps 5 litres/min, showers 8 litres/min, bath 145 litres capacity (to overflow), toilets dual-flush (6/4 litres). Rain-water harvesting or greywater recycling will need to be installed.

Water Use (external)

Water butt (150 or 200 litres, depending upon size of dwelling) on firm base with child-proof lid and tap, connected to rainwater downpipe, with automatic overflow to main drainage system. Colour must be opaque.

Surface Water (run-off & flood risk) 4 credits

Peak rate of run-off to watercourses is no greater for the developed site than it was for the pre-developed site. A suitably qualified engineer or consultant will need to carry out calculations and provide design (engineer or consultant to be appointed at design stage).

Lighting (internal + external space lighting)

100% of light fittings are dedicated low-energy (lamp luminous efficacy > 45 lumens/circuit watt, total output > 400 lamp lumens).

Home Office/Study

Suitable room/space. Area to have openable window, 2 power sockets, and 1-2 telephone points (1 if broadband/cable available).

Drying Space (internal or external)

Adequate and suitable secure space with posts and footings (or fixings) capable of holding 6m+ of drying line.

Cycle Storage

Adequate secure, convenient, and weather-proof storage to be provided in a garage (on racks) or shed. Storage must be of the correct size (the lock must be a mortice deadlock or sash lock to BS3621 for doors > 44mm thick, or "sold secure" padlock etc).

Energy-Labelled White Goods

Fridges and freezers = A+ rated. Washing machines and dishwashers = A rated. Washer/tumble-dryers (optional) = B rated. Information on the EU Energy Efficiency labelling scheme (minimum standard) to be provided.

Energy Display Device

Device that shows electricity and primary heating fuel consumption data (must include time, current mains energy consumption in kw and kw/hours, current emissions in g/kg CO2, current tariff, current cost in sterling, account balance, data - usage and historic).

Waste (recyclable non re-cyclable waste) external

Correctly sized container(s) total (assuming collection once per week), on hard level surface, with disabled access. <u>Waste</u> (re-cyclable waste) internal

Local Authority collection scheme (sorted prior to collection). 3 bins (min 7 litres+ each, total min 30 litres+) to be provided in the kitchen, or utility room, or connected garage with internal access door (bins must be fixed in place, not free-standing).

Composting

Individual home composting facility in dedicated position (with access to disabled person), with an information leaflet.

Site Waste Management Plan (SWMP)

Plan must be implemented to include benchmarks, procedures and commitments for diverting at least 85% of waste from landfill.

Construction Site Impacts

Monitoring, reporting, and achieving best practice policies, plus 80% of timber is responsibly sourced or reclaimed/re-used.

Considerate Constructors Scheme

Builder to be a member of the Considerate Constructor's Scheme (commitment to go significantly beyond best practice).

Home User Guide

Home user guide (non-technical) to be provided to the end owner/occupier of the dwelling(s). Guide to provide information on the operation and environmental performance of both the dwelling(s) and surroundings.

Note 1 : This must be available in different formats, ie foreign language, braille, large print, or audio cassette/CD, where required.

Note 2 : Therm Energy Ltd can produce the guide for a cost of £215 + VAT (1 dwelling). Additional dwellings are £35 + VAT each.

Lifetime Homes

Principles of Lifetime Homes (16 criteria) fully adhered to. <u>www.lifetimehomes.org.uk</u>

Security

A member of the local police (ALO or CPDA) to be appointed as early as possible to advise on security, with their recommendations to be incorporated into the design of the dwelling. <u>www.securedbydesign.com</u>

Ecology

This will vary with each site. An ecology report will be required (scoring 4-5 credits).

Note 1 : This is a typical specification that would meet Code Level 6 requirements in most cases. However, each development would need to be assessed individually on its own merits to ensure the correct number of points (90) is achieved.

Note 2 : The above only provides basic detail in some cases. A Code Pre-Assessment Report (or the Code Technical Guide) will provide further details and guidance on the various criteria.

Note 3 : For heavily glazed dwellings, triple-glazing may need to be considered.



EXAMPLE OF CODE FINAL CERTIFICATE

	THE CODE FOR SUSTAINABLE	FINAL CERTIFICATE Insued at the Post Construction Stage)	SUBTA
NAL CERTIFICATE	HOMES	Certificate Number: TEST - Certific	cate No 1 Score: XXX
aud at the Post Construction Stage)		What Your Code	Star Rating Means
		Combined Score 36-47 48-56	
	ISSUED TO:	Stars 1 2	3 4 5 6 e effects on the environment caused by the development
Test	House, 1 Test Street,		ating a home must perform better than a new home built
Test	Town, Test County		this home scored
	TE1 ST1	Category Percentage of Category Sc	core attained latters is a successful to the second
		Energy M	Energy afficiency and CO ₂ saving
Construction Stage and has	ne has been independently assessed at the Post achieved a Code Rating of 5 out of 6 stars under	Water 25	Internal and external water saving measures
th	e October 2010 version	Materials 96	The searcing and environmental impact of materials used to built the home
* * *	* * * ☆	Surface Water 43	Measures to reduce the risk of flooding and subtract water run off, which can public charate
	umint Highly	Woste 100	Storage for recyclable associated composition and commonly recyclable association and recyclic common for makematic
	nt Sustainable action Net Zero Carbon	Pollution IT	The use of insulation meterials and heating systems that do not add to gootal warrong
The next page sets out how th	s home achieved its rating in the nine categories.	Health & 18. Wellbeing 18.	Provision of good daylight quality, sound involution private space, eccessibility and adapted by
		Management 38	A Home User Guilts. designing in security, and reducing the impact of construction
Licensell Assessor Mr & S Sessor	Assessor Organisation The Assessors	Ecology IF	Protection and enhancement of the ecology of the area and efficient use of building land
Client C Lient Ltd	Developer D E Veloper Inc	Further detailed information regarding The Code for Euclidentity	the Minnes Late be found at your communities you of Pressing
Architects Arcl Tects	Certificate Number TEST - Certificate No 1	GO ₂ Rating The GD, stateg is a measure of a honror's Carton Decembration resummership transformer DS, estimate medical measure medical measure meas	
		HHH R	package, and taken into account other separate of energy use as well as writer excitamentally income work as water and vanch.



SERVICES : 2012

SAP Calculations

- > New Build Dwellings (and conversions)
- > Domestic Extensions (where glazing exceeds 25% of floor area)
- > Prices start at £75 + VAT (multiple dwellings such as large blocks of flats) or £225 + VAT for single dwelling

SBEM Calculations

- > New Buildings and Extensions (non-dwellings)
- > Prices start at £335 + VAT

EPC (Energy Performance Certificate)

- > New Build Dwellings (and conversions)
- > Prices start at £45 + VAT

Code for Sustainable Homes

> Pre-assessments from around £450 + VAT (not inc site registration, certification, or site visits)

PLANNING Calculations

- > Thermal assessment calculations to satisfy planning (eg 10% reduction in energy use)
- > Prices start at £265 + VAT

Air Pressure & Sound Testing

- > New build dwellings
- > Prices start at £250 + VAT (air leakage testing) and £450 + VAT (sound testing)

Water Calculations (Part G)

> New dwellings, from £75 + VAT (when carried out at the same time as SAP)

Note 1 : Air pressure and sound testing tends to be regional - ie south-east only.

Note 2 : Prices are correct at time of publication (January 2012). For further information see our website. We will be happy to provide a written fee quotation upon request (and receipt of drawings).

- Note 3 : Prompt service offered by friendly and efficient fully accredited assessors.
- Note 4 : Bank Details : Account No = 68070425 Sort Code = 08-92-50.

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