Code for Sustainable Homes

Technical Guide November 2010 - Technical Guidance Note 2

Pre-Assessment Report

STROMA CERTIFIED CODE ASSESSOR

Build Energy

Compliance • Testing • Consulting

Report Reference:	
Site Registration:	**007657-121023-06-1272**
Site Name:	**Pitmore Road**
Assessor Number:	**STRO007657**
Company:	**Build Energy**
Assessor:	**Sarah Howe**

THE CODE FOR SUSTAINABLE HOMES

CERTIFICATION MARK

Code for Sustainable Homes
Pre-Assessment Report (Report Reference:)

Site Details	
Site Name:	Pitmore Road
Site Registration:	007657-121023-06-1272
Site Address:	Pitmore Road
City/Town:	Eastleigh
County:	Hampshire
Postcode:	SO50 4RA
No. of Dwellings:	1
No. of Dwelling Types:	0
Planning Authority:	Eastleigh Borough Council
Funding Body:	

Assessor Details	
Company:	Build Energy
Assessor Name:	Sarah Howe
Cert Number:	STRO007657
Address:	Unit 6 Silver Business Park
	Airfield Way
City/Town:	Christchurch
County:	Dorset
Postcode:	BH23 3TA
Tel:	07825369089
Email:	Sarah@buildenergy.co.uk

Client Details	
Company:	KPS Partnership
Contact Name:	Simon Stillwell
Job Title:	
Email:	
Tel:	
Address:	16 Monks Brook Industrial Estate
	School Close
	Chandlers Ford
City/Town:	Eastleigh
County:	Hampshire
Postcode:	SO50 4RA

Architect Details	
Company:	
Contact Name:	
Job Title:	
Email:	
Tel:	
Address:	
City/Town:	
County:	
Postcode:	

Developer Details	
Company:	KPS Partnership
Contact Name:	Simon Stillwell
Job Title:	
Email:	
Tel:	
Address:	16 Monks Brook Industrial Estate
	School Close
	Chandlers Ford
City/Town:	Eastleigh
County:	Hampshire
Postcode:	SO50 4RA

Dwelling ID	Plot No.	Address	Social Unit
1	1	Pitmore Road	No

Development Summary & Ratings

Dwelling ID	Dwelling Type	Description	Level	Score
		Pitmore Road	4	68.6

Deviations from Standard

No deviations from standard

Score Sheet for Pitmore Road

	ENE									WAT		MAT			SUR		WAS			POL		HEA				MAN				ECO					Summary	
Dwelling ID	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**1**	**2**	**1**	**2**	**3**	**1**	**2**	**1**	**2**	**3**	**1**	**2**	**1**	**2**	**3**	**4**	**1**	**2**	**3**	**4**	**1**	**2**	**3**	**4**	**5**	**Score**	**Level**
1	3	5	1	1	2	2	1	2	1	3	1	12	4	2	2	2	4	3	1	1	3	3	4	1	0	3	2	2	2	1	1	1	1	0	68.6	4

Summary Score Sheet

Dwelling Type: Pitmore Road

Dwelling ID: 1

	Credit Score	Credits Available	Score Assessment Sub Total	Credits Available	%	Weighting Factor	Points Score
Energy & CO2 Emissions							
ENE 1 Dwelling Emission Rate	3	10	18	31	58.06	36.4	21.14
ENE 2 Fabric Energy Efficiency	5	9					
ENE 3 Energy Display Device	1	2					
ENE 4 Drying Space	1	1					
ENE 5 Energy Labelled White Goods	2	2					
ENE 6 External Lighting	2	2					
ENE 7 Low or Zero Carbon Energy Technologies	1	2					
ENE 8 Cycle Storage	2	2					
ENE 9 Home Office	1	1					
Water							
WAT 1 Internal Water Use	3	5	4	6	66.67	9	6
WAT 2 External Water Use	1	1					
Materials							
MAT 1 Environmental Impact of Materials	12	15	18	24	75	7.2	5.4
MAT 2 Responsible Sourcing (Basic Building Elements)	4	6					
MAT 3 Responsible Sourcing (Finishing Elements)	2	3					
Surface Water Run-off							
SUR 1 Management of Surface Water Run-Off from Site	2	2	4	4	100	2.2	2.2
SUR 2 Flood Risk	2	2					
Waste							
WAS 1 Household Waste Storage and Recycling Facilities	4	4	8	8	100	6.4	6.4
WAS 2 Construction Site Waste Management	3	3					
WAS 3 Composting	1	1					
Pollution							
POL 1 Global Warming Potential of Insulants	1	1	4	4	100	2.8	2.8
POL 2 NOx Emissions	3	3					
Health & Wellbeing							
HEA 1 Daylighting	3	3	8	12	66.67	14	9.33
HEA 2 Sound Insulation	4	4					
HEA 3 Private Space	1	1					
HEA 4 Lifetime Homes	0	4					
Management							
MAN 1 Home User Guide	3	3	9	9	100	10	10
MAN 2 Considerate Constructors Scheme	2	2					
MAN 3 Construction Site Impacts	2	2					
MAN 4 Security	2	2					
Ecology							
ECO 1 Ecological Value of Site	1	1	4	9	44.44	12	5.33
ECO 2 Ecological Enhancement	1	1					
ECO 3 Protection of Ecological Features	1	1					
ECO 4 Change of Ecological Value of Site	1	4					
ECO 5 Building Footprint	0	2					
	Level Achieved: 4		Total Points Scored: 68.6				

Evidence for ENE 1 (Dwelling Emission Rate)
Improvement above Part L Building Regulations 2010. 3 credits allocated
Copy of calculations based on design stage SAPs - CORE tool used Full SAP calculations in the SAP folder
Assumptions for ENE 1

Evidence for ENE 2 (Fabric Energy Efficiency)
End Terrace Detached 5 credits allocated
Copy of calculations based on design stage SAPs - CORE tool used Full SAP calculations in the SAP folder
Assumptions for ENE 2

Evidence for ENE 3 (Energy Display Device)
Correctly specified display device showing current consumption data.
Detailed letter of intent in the letter of confirmation folder
Assumptions for ENE 3

Evidence for ENE 4 (Drying Space)
Compliant external drying space
Details of location and length of drying line and fixings (and details of ventilation if indoors) - External finishes folder and Detailed letter of intent in the letter of confirmation folder
Assumptions for ENE 4

Evidence for ENE 5 (Energy Labelled White Goods)
A+ rated fridge & freezers or fridge/freezer A rated washing machine and dishwasher AND B rated washer-dryers & tumbles dryers, or EU energy efficiency labelling scheme leaflet where washing machines and/or dishwashers not provided
Information on EU labelling scheme AND Letter confirming information will be provided to all homes
Assumptions for ENE 5

Evidence for ENE 6 (External Lighting)
Compliant space lighting Compliant security lighting
Detailed letter of intent in the letter of confirmation folder
Assumptions for ENE 6

Evidence for ENE 7 (Low or Zero Carbon Energy Technologies)
Contribution of low or zero carbon technologies greater than or equal to 10%
Calculations based on Design Stage SAPs AND Confirmation LZCs meet Directive 2009/28/EC and certifeid under the Microgeneration Certification Scheme OR Certified under CHPQA standard
Assumptions for ENE 7

Evidence for ENE 8 (Cycle Storage)
4 bedrooms or more - Storage for 4 cycles per dwelling
Detailed evidence showing number of bedrooms and the location, size and number of cycle spaces per dwelling AND Detailed evidence showing location, and details of storage including security measures and access AND A detailed letter of intent
Assumptions for ENE 8

Evidence for ENE 9 (Home Office)
Compliant home office
Evidence showing location of and sufficient space for the home office, provided with adequate services (sockets, telephone points, ventilation) AND Evidence of one of: cable connection, broadband availability or two telephone points - Drawings/Floor Plans AND Average daylight factor of at least 1.5% AND Detailed letter of intent in the letter of confirmation folder
Assumptions for ENE 9

Evidence for WAT 1 (Internal Water Use)
Internal water use less than or equal to 105 litres per person per day
"Water Efficiency Calculator for New Dwellings internal potable water use" for each dwelling with a different specification - CORE tool used AND Drawing / specifications showing location and details of fittings in the dwelling - Drawings/Floor Plans AND Detailed letter of intent in the letter of confirmation folder
Assumptions for WAT 1

Evidence for WAT 2 (External Water Use)
Compliant individual rainwater collection system
Detailed evidence stating type, size and location of any rainwater collection systems- Drawings/External finishes AND Detailed letter of intent in the letter of confirmation folder
Assumptions for WAT 2

Evidence for MAT 1 (Environmental Impact of Materials)
Mandatory requirements met: At least 3 elements rated A+ to D, 12 credits scored
Completed Code Mat 1 Calculator Tool - CORE Tool used AND References stating the design or specification documentation used to complete the tool - Specification folder
Assumptions for MAT 1

Evidence for MAT 2 (Responsible Sourcing (Basic Building Elements))
4 credits scored
Completed Code Mat 2 Calculator Tool - CORE tool used AND References stating the design or specification documentation used to complete the calculator tool - Specification folder AND Evidence confirming the product shall be sourced from suppliers capable of providing certification - Detailed letter of intent in the letter of confirmation folder

Assumptions for MAT 2

Evidence for MAT 3 (Responsible Sourcing (Finishing Elements))
2 credits scored
Completed Code Mat 3 Calculator Tool - CORE tool used AND References stating the design or specification documentation used to complete the calculator tool - Specification folder AND Evidence confirming the product shall be sourced from suppliers capable of providing certification - Detailed letter of intent in the letter of confirmation folder
Assumptions for MAT 3

Evidence for SUR 1 (Management of Surface Water Run-Off from Site)
Mandatory Met: Peak rate of run-off and annual volume of run-off is no greater for the developed than for the pre-development. The system has also been designed for local drainage system failure. No discharge to watercourse(s) for rainfall depth up to 5mm. Run-off from all hard surfaces shall receive an appropriate level of treatment (as per the SudS manual) to minimise risk of pollution.
All the below information on the 4-Sur 1-2 including letter from Steve Marriot allowing the use of attenuation tanks. Confirmation of Code definition from appropriately qualified professional AND Qualified professional's report with information on compliance with peak rate and volume of run-off AND Areas of permeable and impermeable surfaces AND Peak rates of run-off calculations for the 1 year and 100 year events pre- and post- development AND Details of permeability characteristics pre- and post-development AND Details of methods to reduce the peak rate of run-off to pre-development rates AND Pre-development volume of run-off for the 100 year 6 hour event AND Additional volume run-off from development with and without mitigation measures AND Information demonstrating hierarchical approach and on calculation methods used plus summary results AND Confirmation of Flood Risk Assessment from all sources of flooding AND Drawings showing proposed drainage solution, system failure routes, flood ponding levels and ground floor levels AND Confirmation from qualified professional that drainage system failure would not cause an increase in flood risk
Assumptions for SUR 1

Evidence for SUR 2 (Flood Risk)
Low flood risk - zone 1
Zone 1: Flood Risk Assessment
Assumptions for SUR 2

Evidence for WAS 1 (Household Waste Storage and Recycling Facilities)
Mandatory requirements met: Adequate storage of household waste with accessibility in line with checklist WAS 1. Local authority collection: After collection sorting with appropriate internal storage of recyclable materials
In the 5-Was 1 folder Table: Cat 5.1 - Supplementary Info Sheet for Was 1 and Checklist IDP AND Leaflet distributed from LA detailing types and frequency of waste collected, and details of any sorting AND Detailed evidence of location, number, type and sizes of internal storage - Drawings/External Finishes
Assumptions for WAS 1

Evidence for WAS 2 (Construction Site Waste Management)
Compliant site waste management plant containing benchmarks, procedures and commitments for the minimizing and diverting 80% waste from landfill in line with the criteria and with Checklist WAS 2a, 2b & 2c
Detailed letter of intent in the letter of confirmation folder
Assumptions for WAS 2

Evidence for WAS 3 (Composting)
Individual compositing facility/facilities
Detailed evidence of location and size of internal and external storage, information in supplied leaflet and distance of storage from dwelling AND Completed Checklist IDP AND Letter of intent from developer detailing the above
Assumptions for WAS 3

Evidence for POL 1 (Global Warming Potential of Insulants)
All insulants have a GWP of less than 5
Checklist Pol 1 showing proposed insulation materials for each element and whether they are foamed using blowing agents or are unfoamed in the 6-Pol 1 folder
Assumptions for POL 1

Evidence for POL 2 (NOx Emissions)
NOx emissions less than or equal to 40mg/kWh
Documentation of heating system, flue type, dry NOx levels and/or boiler class of primary and any secondary heating systems in the 6-Pol 2 folder AND Letter of intent from developer
Assumptions for POL 2

Evidence for HEA 1 (Daylighting)
Kitchen: Average daylight factor of at least 2% Living room: Average daylight factor of at least 1.5% Dining room: Average daylight factor of at least 1.5% Home office: Average daylight factor of at least 1.5% All rooms (kitchen, living, dining and where applicable the home office) have 80% of the working plane with direct light from the sky
Calculations of average daylight factor and position of no-sky line AND Confirmation and calculations signed of by developer.
Assumptions for HEA 1

Evidence for HEA 2 (Sound Insulation)
Detached property
Where pre-completion testing, intent to meet dB standards and use a compliant test body AND Letter of instruction or detailed letter of intent
Assumptions for HEA 2

Evidence for HEA 3 (Private Space)
Individual private space provided
External finishes drawings clearly show the allocation of private space Confirmation of number of bedrooms served by outdoor space and space meets minimum size requirements AND Evidence that garden / balcony / terrace is only accessible to occupants of the dwelling AND Completed Checklist IDP AND Letter of intent from developer
Assumptions for HEA 3

Evidence for HEA 4 (Lifetime Homes)
Credits not sought
Confirmation from developer that all 16 of Lifetime Homes design criteria are met OR Where exemption from Lifetime Homes criteria 2 and/or 3, confirmation from developer that all other design criteria are met AND Detailed evidence of access routes subject to steep gradients at pre development and completion
Assumptions for HEA 4

Evidence for MAN 1 (Home User Guide)
All criteria inline with checklist MAN 1 Part 1 - Operational Issues will be met All criteria inline with checklist MAN 1 Part 2 - Site and Surroundings will be met
Confirmation that HUG - will be supplied to all dwellings & comply with Man 1 Part 1 and 2 and Letter of intent from developer
Assumptions for MAN 1

Evidence for MAN 2 (Considerate Constructors Scheme)
Considerate constructors scheme: Significantly beyond best practise, a score of between 32 and 40 and at least a score of 4 in every section
Commitment to CCS with pass score > 32points AND Confirmation of registration to CCS before construction starts
Assumptions for MAN 2

Evidence for MAN 3 (Construction Site Impacts)
Monitor, report and set targets for water consumption from site activities Adopt best practise policies in respects to air (dust) pollution from site activities Adopt best practise policies in respects to water (ground and surface) pollution 80% of timer reclaimed, re-used or responsibly sourced
Detailed letter of intent in the letter of confirmation folder
Assumptions for MAN 3

Evidence for MAN 4 (Security)
Secure by design section 2 compliant
Commitment to follow the advice from ALO/CPDA and meet section 2: New Homes in the 8-Man4 folder

Assumptions for MAN 4

Evidence for ECO 1 (Ecological Value of Site)
Land of low ecological value, achieved through checklist ECO 1. Development site has been identified as low ecological value by a suitably qualified ecologist
Ecologist report as set out in CSH Ecology Report Template AND Detailed evidence identifying construction zone and how many areas of ecological value outside zone will remain undisturbed
Assumptions for ECO 1

Evidence for ECO 2 (Ecological Enhancement)
Key recommendations and 30% additional recommendations by a suitably qualified ecologist
Ecologist report as set out in CSH Ecology Report Template AND Evidence of how all key and 30% of other recommendations by ecologist will be satisfied AND Planting schedule
Assumptions for ECO 2

Evidence for ECO 3 (Protection of Ecological Features)
Land of low ecological value as identified under ECO 1
Confirmation of ecological features and measures to protect (or confirmation none present)
Assumptions for ECO 3

Evidence for ECO 4 (Change of Ecological Value of Site)
Minor negative change: Between -9 and less than or equal to -3
Code for Sustainable Homes Ecology Report Template AND Text describing proposed planting schemes AND Planting schedule AND Letter confirming how to meet ecologist's requirements
Assumptions for ECO 4

Evidence for ECO 5 (Building Footprint)
Credit not sought
Calculation of the building footprint ratio stating Net Internal Floor Area and Net Internal Ground Floor Area
Assumptions for ECO 5

Assessor Declaration

I Sarah Howe, can confirm that I have compiled this report to the best of my ability, I have based all findings on the information that is referenced within this report, and that this report is appropriate for the registered site.

To the best of my knowledge all the information contained within this report is correct and accurate. I have within my possession all the reference material that relates to this report, which is available for inspection by the client, the clients representative or Stroma Certification for Quality Assurance monitoring.

Signed:



Sarah Howe
Build Energy
23 October 2012

Information about Code for Sustainable Homes

The Code for Sustainable Homes (the Code) is an environmental assessment method for rating and certifying the performance of new homes. It is a national standard for use in the design and construction of new homes with a view to encouraging continuous improvement in sustainable home building. The Code is based on EcoHomes©.

It was launched in December 2006 with the publication of 'Code for Sustainable Homes: A stepchange in sustainable home building practice' (Communities and Local Government, 2006), and became operational in England from April 2007.

The Code for Sustainable Homes covers nine categories of sustainable design. Each category includes a number of environmental issues. Each issue is a source of impact on the environment which can be assessed against a performance target and awarded one or more credits. Performance targets are more demanding than the minimum standards needed to satisfy Building Regulations or other legislation. They represent good or best practice, are technically feasible, and can be delivered by the building industry. The issues and categories are as follows:

- Energy & CO2 Emissions
  - Dwelling Emission Rate
  - Building Fabric
  - Internal Lighting
  - Drying Space
  - Energy Labelled White Goods
  - External Lighting
  - Low or Zero Carbon Technologies
  - Cycle Storage
  - Home Office
- Water
  - Internal Water Use
  - External Water Use
- Materials
  - Environmental Impact of Materials
  - Responsible Sourcing of Materials - Basic Building Elements
  - Responsible Sourcing of Materials - Finishing Elements
- Surface Water Run-off
  - Management of Surface Water Run-off from the Development
  - Flood Risk
- Waste
  - Storage of Non-Recyclable Waste and Recyclable Household Waste
  - Construction Site Waste Management
  - Composting
- Pollution
  - Global Warming Potential of Insulants
  - NOx Emissions

- Health & Wellbeing
  - Daylighting
  - Sound Insulation
  - Private Space
  - Lifetime Homes
- Management
  - Home User Guide
  - Considerate Constructors Scheme
  - Construction Site Impacts
  - Security
- Ecology
  - Ecological Value of Site
  - Ecological Enhancement
  - Protection of Ecological Features
  - Change in Ecological Value of Site
  - Building Footprint

The Code assigns one or more performance requirements (assessment criteria) to all of the above environmental issues. When each performance requirement is achieved a credit is awarded (with the exception of the four mandatory requirements which have no associated credits). The total number of credits available to a category is the sum of credits available for all the issues within it.

Mandatory minimum performance standards are set for some issues. For four of these, a single mandatory requirement is set which must be met, whatever Code level rating is sought. Credits are not awarded for these issues. Confirmation that the performance requirements are met for all four is a minimum entry requirement for achieving a level 1 rating. The four un-credited issues are:

- Environmental Impacts of Materials
- Management of Surface Water Run-off from Developments
- Storage of Non-Recyclable Waste and Recyclable Household Waste
- Construction Site Waste Management

If the mandatory minimum performance standard is met for the four un-credited issues, four further mandatory issues need to be considered. These are agreed to be such important issues that separate Government policies are being pursued to mitigate their effects. For two of these, credits are awarded for every level of achievement recognised within the Code, and minimum mandatory standards increase with increasing rating levels.

The two issues with increasing mandatory minimum standards are:

- Dwelling Emission Rate
- Indoor Water Use

For one issue a mandatory requirement at Level 5 or 6:

- Fabric Energy Efficiency

The final issue with a mandatory requirement for Level 6 of the Code is:

- Lifetime Homes

Further credits are available on a free-choice or tradable basis from other issues so that the developer may choose how to add performance credits (converted through weighting to percentage points) achieve the rating which they are aiming for.

The environmental impact categories within the Code are not of equal importance. Their relative value is conveyed by applying a consensus-based environmental weighting factor (see details below) to the sum of all the raw credit scores in a category, resulting in a score expressed as percentage points. The points for each category add up to 100.

The weighting factors used in the Code have been derived from extensive studies involving a wide range of stakeholders who were asked to rank (in order of importance) a range of environmental impacts. Stakeholders included international experts and industry representatives.

It is also important to note that achieving a high performance in one category of environmental impact can sometimes result in a lower level of performance for another. For instance, if biomass is used to meet heating demands, credits will be available for performance in respect of energy supplied from a renewable source, but credits cannot be awarded for low NOX emission. It is therefore impossible to achieve a total percentage points score of 100.

The Code uses a rating system of one to six stars. A star is awarded for each level achieved. Where an assessment has taken place by where no rating is achieved, the certificate states that zero stars have been awarded:

Code Levels	Total Points Score (Equal to or Greater Than)
Level 1 ★☆☆☆☆☆	**36 Points**
Level 2 ★★☆☆☆☆	**48 Points**
Level 3 ★★★☆☆☆	**57 Points**
Level 4 ★★★★☆☆	**68 Points**
Level 5 ★★★★★☆	**84 Points**
Level 6 ★★★★★★	**90 Points**

Formal assessment of dwellings using the Code for Sustainable Homes may only be carried out using Certified assessors, who are qualified ‘competent persons’ for the purpose of carrying out Code assessments.

Energy & CO2 Emissions
ENE 1: Dwelling Emission Rate **Available Credits:**10 **Aim:**To limit CO2 emissions arising from the operation of a dwelling and its services in line with current policy on the future direction of regulations.
ENE 2: Fabric Energy Efficiency **Available Credits:**9 **Aim:**To improve fabric energy efficiency performance thus future-proofing reductions in CO2 for the life of the dwelling.
ENE 3: Energy Display Device **Available Credits:**2 **Aim:**To promote the specification of equipment to display energy consumption data, thus empowering dwelling occupants to reduce energy use.
ENE 4: Drying Space **Available Credits:**1 **Aim:**To promote a reduced energy means of drying clothes.
ENE 5: Energy Labelled White Goods **Available Credits:**2 **Aim:**To promote the provision or purchase of energy efficient white goods, thus reducing the CO2 emissions from appliance use in the dwelling.
ENE 6: External Lighting **Available Credits:**2 **Aim:**To promote the provision of energy efficient external lighting, thus reducing CO2 emissions associated with the dwelling.
ENE 7: Low or Zero Carbon Technologies **Available Credits:**2 **Aim:**To limit CO2 emissions and running costs arising from the operation of a dwelling and its services by encouraging the specification of low and zero carbon energy sources to supply a significant proportion of energy demand.
ENE 8: Cycle Storage **Available Credits:**2 **Aim:**To promote the wider use of bicycles as transport by providing adequate and secure cycle storage facilities, thus reducing the need for short car journeys and the associated CO2 emissions.
ENE 9: Home Office **Available Credits:**1 **Aim:**To promote working from home by providing occupants with the necessary space and services thus reducing the need to commute.

Water
WAT 1: Indoor Water Use **Available Credits:**5 **Aim:**To reduce the consumption of potable water in the home from all sources, including borehole well water, through the use of water efficient fittings, appliances and water recycling systems.
WAT 2: External Water Use **Available Credits:**1 **Aim:**To promote the recycling of rainwater and reduce the amount of mains potable water used for external water uses.

Materials
MAT 1: Environmental Impact of Materials **Available Credits:**15 **Aim:**To specify materials with lower environmental impacts over their life-cycle.
MAT 2: Responsible Sourcing of Materials - Basic Building Elements **Available Credits:**6 **Aim:**To promote the specification of responsibly sourced materials for the basic building elements.
MAT 3: Responsible Sourcing of Materials - Finishing Elements **Available Credits:**3 **Aim:**To promote the specification of responsibly sourced materials for the finishing elements.

Surface Water Run-off
SUR 1: Management of Surface Water Run-off from developments **Available Credits:**2 **Aim:**To design surface water drainage for housing developments which avoid, reduce and delay the discharge of rainfall run-off to watercourses and public sewers using SuDS techniques. This will protect receiving waters from pollution and minimise the risk of flooding and other environmental damage in watercourses.
SUR 2: Flood Risk **Available Credits:**2 **Aim:**To promote housing development in low flood risk areas, or to take measures to reduce the impact of flooding on houses built in areas with a medium or high risk of flooding.

Waste
WAS 1: Storage of non-recyclable waste and recyclable household waste **Available Credits:**4 **Aim:**To promote resource efficiency via the effective and appropriate management of construction site waste.
WAS 2: Construction Site Waste Management **Available Credits:**3 **Aim:**To promote resource efficiency via the effective and appropriate management of construction site waste.
WAS 3: Composting **Available Credits:**1 **Aim:**To promote the provision of compost facilities to reduce the amount of household waste send to landfill.

Pollution
POL 1: Global Warming Potential of Insulants **Available Credits:**1 **Aim:**To promote the reduction of emissions of gases with high GWP associated with the manufacture, installation, use and disposal of foamed thermal and acoustic insulating materials.
POL 2:NOx Emissions **Available Credits:**3 **Aim:**To promote the reduction of nitrogen oxide (NOX) emissions into the atmosphere.

Health & Wellbeing
HEA 1: Daylighting **Available Credits:**3 **Aim:**To promote good daylighting and thereby improve quality of life and reduce the need for energy to light the home.
HEA 2: Sound Insulation **Available Credits:**4 **Aim:**To promote the provision of improved sound insulation to reduce the likelihood of noise complaints from neighbours.
HEA 3: Private Space **Available Credits:**1 **Aim:**To improve quality of life by promoting the provision of an inclusive outdoor space which is at least partially private.
HEA 4: Lifetime Homes **Available Credits:**4 **Aim:**To encourage the construction of homes that are accessible and easily adaptable to meet the changing needs of current and future occupants.

Management
MAN 1: Home User Guide **Available Credits:**3 **Aim:**To promote the provision of guidance enabling occupants to understand and operate their home efficiently and make the best use of local facilities.
MAN 2: Considerate Constructors Scheme **Available Credits:**3 **Aim:**To promote the environmentally and socially considerate, and accountable management of construction sites.
MAN 3: Construction Site Impacts **Available Credits:**2 **Aim:**To promote construction sites managed in a manner that mitigates environmental impacts.
MAN 4: Security **Available Credits:**2 **Aim:**To promote the design of developments where people feel safe and secure- where crime and disorder, or the fear of crime, does not undermine quality of life or community cohesion.

Ecology
ECO 1: Ecological value of site **Available Credits:**1 **Aim:**To promote development on land that already has a limited value to wildlife, and discourage the development of ecologically valuable sites.
ECO 2: Ecological enhancement **Available Credits:**1 **Aim:**To enhance the ecological value of a site.
ECO 3: Protection of ecological features **Available Credits:**1 **Aim:**To promote the protection of existing ecological features from substantial damage during the clearing of the site and the completion of construction works.
ECO 4: Change in ecological value of site **Available Credits:**4 **Aim:**To minimise reductions and promote an improvement in ecological value.
ECO 5: Building footprint **Available Credits:**2 **Aim:**To promote the most efficient use of a building’s footprint by ensuring that land and material use is optimised across the development.

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