

CODE FOR SUSTAINABLE HOMES - NOV 2010

THE ENVIRONMENTAL RATING FOR HOMES

PRELIMINARY ASSESSMENT

INCLUDING ANY ASSUMPTIONS AND BASIS FOR DATA

13/15 John's Mews, London WC1N 2PA for Wandsworth Sand and Stone Ltd

Issue Date: 30 April 2014
Code Registration Number: Ongoing





Tel: 020 8968 5400 326 Kensal Road, London W10 5BZ

INTRODUCTION

This document was commissioned by Louise Turley of FT Architects Ltd on behalf of Wandsworth Sand and Stone Ltd and written by Julian Williams of Abba Energy Ltd. There are two units being assessed on this site.

This report reviews the current standing of this scheme, employing verbal and available design information. Sufficient evidence is not yet available to enable an Interim Stage assessment to be undertaken.

Following this report (and where issued by Abba Energy), it will be the project team's responsibility to ensure that the drawings and specifications follow and clearly state the requirements for the relevant Code for Sustainable Homes issues. Information should then be submitted to the Assessor for the Final report to be made. Please note that without the evidence the assessor cannot award the credits. Reference should be made to Code November 2010 Technical Guide.

Project name	13/15 John's Mews, London WC1N 2PA Code Version	Nov-10
Client	Wandsworth Sand and Stone Ltd Target Rating	Level 4
Assessment Type	PRELIMINARY Preliminary Rating Achieved	Level 4

PRELIMINARY ASSESSMENT

The following table includes the basis of data input, sources and assumptions. Each issue is 'weighted' differently, to reflect considered importance, according to the following equivalent percentage scores per credit point: Energy & CO2 Emissions (Ene) -1.17%; Water (Wat) -1.50%; Materials (Mat) -0.30%; Surface Water Runoff (Sur) -0.55%; Waste (Was) -0.80%; Pollution (Pol) -0.70%; Health & Wellbeing (Hea) -1.17%; Management (Man) -1.11%; Ecology (Eco) -1.33%. Where credits have been awarded, it is assumed that the criteria (detailed within the relevant version of the Code Technical Guide) will be met.

Please note – Architect = 23 Architecture (23A), Code Consultant = Abba Energy (AE).

References to 'dwelling' mean a unit of accommodation, house or flat.

ESTIMATED TOTAL CREDITS BEFORE 'WEIGHTING' FOR 'CATEGORY ISSUES'	76
TARGET PERCENTAGE REQUIRED	57.00%
ESTIMATED TOTAL PERCENTAGE	70.36%
ESTIMATED CODE RATING	Level 4

breglobal

Results

Development Name: 13-15 John's Mews

Dwelling Description: Two 3-bed 4-storey mews houses

Name of Company: Abba Energy Ltd
Code Assessor's Name: Julian Williams

Company Address:

326 Kensal Road, London, W10 5BZ

Notes/Comments:

Change of use garage, workshop and offices converted to 2 domestic dwellings. Planning permission granted. New permission sought to add basement level to each dwelling. Code for Sustainable Homes Preliminary Report for Planning 30/04/2014

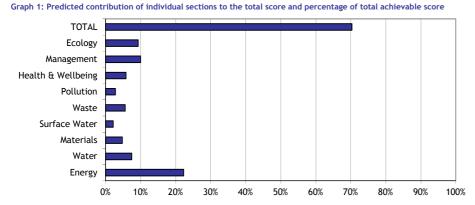
PREDICTED RATING - CODE LEVEL: 4

Mandatory Requirements: All Levels

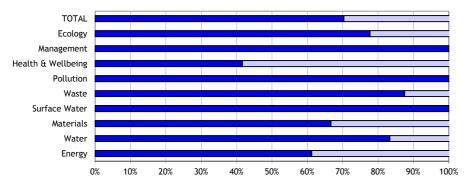
 % Points:
 70.36%
 - Code Level: 4

 Breakdown:
 Energy
 - Code Level: 4

 Water
 - Code Level: 4



Graph 2: Predicted percentage of credits achievable: Total and by Category



NOTE: The rating obtained by using this Pre Assessment Estimator is for guidance only. Predicted ratings may differ from those obtained through a formal assessment, which must be carried out by a licensed Code assessor.

CATEGOR	Y 1 ENERGY	Overall L	evel: 4	Overall Score	70.36		Evidence Required
% of Section	on Credits Predicted:	61.29		Credits	Level	Assumptions Made	(The below cells can be formatted by assessors if
Contributi	ion to Overall % Score	<u> </u>		19.0 of 31 Credits	Level 4		required.)
Ene 1 Dwelling Emission Rate	Dwelling Emission Ra calculated using SAP apply. The Code en predicted score. Enter the predicted so	based on the percentage imple (DER) over the Target Emiss 2009. Minimum standards for lergy calculator can be used ore e predicted number of credits? et CO ₂ emissions achieved?	on Rate (TER) as each Code level	5.0 of 10 Credits	Level 4	The Design Team will provide a level of fabric, mechanical and electrical performance through the appropriate use of insulation, energy and air tightness strategies that will demonstrate the achievement of a 47% improvement of DER over TER for which 5 credits are awardable.	The Design Team will incorporate the criteria to comply with this issue during Detailed Design, using the Code Compliance Specifications compiled by Abba Energy. The Contractor will then follow the Code Compliance Specifications during the build, liaising with the Code Assessor on any changes.
Ene 2 Fabric Energy Efficiency	(kWh/m²/yr) of the d 5 and 6. The Code predicted score. Enter the predicted sc Apartmen OR End terrac OR Staggered	d based on the Fabric E welling. Minimum standards appenergy calculator can be use ore s, Mid-terrace e, Semi and Detached Mid terrace e predicted number of credits?	oly at Code levels	5.0 of 9 Credits	-	As a mid-terrace pair of dwellings the Design Team will target a FEE of 43.00kWh/m2/yr or better through the use of appropriate levels of insulation for energy conservation. This level of Fabric Energy Efficiency achieves 5 credits.	The Design Team will incorporate the criteria to comply with this issue during Detailed Design, using the Code Compliance Specifications compiled by Abba Energy. The Contractor will then follow the Code Compliance Specifications during the build, liaising with the Code Assessor on any changes.
Ene 3 Energy Display Devices	Device is installed moconsumption. Select whether the EU None Spec Primary H OR Electricity	eating only	3, 1	2 of 2 Credits	-	The design and the Contractor's specification will comply fully with the criteria for this issue.	The Design Team will incorporate the criteria to comply with this issue during Detailed Design, using the Code Compliance Specifications compiled by Abba Energy. The Contractor will then follow the Code Compliance Specifications during the build, liaising with the Code Assessor on any changes.

Issue		Credits	Level	Assumptions Made	Evidence Required
Ene 4 Drying Space	One credit is awarded for the provision of either internal or external secure drying space with posts and footings or fixings capable of holding 4m+ of drying line for 1-2 bed dwellings and 6m+ for dwellings with 3 bedrooms or greater. Will drying space meeting the criteria be provided? Yes OR No	1 of 1 Credits	-	The design and the Contractor's specification will comply fully with the criteria for this issue.	The Design Team will incorporate the criteria to comply with this issue during Detailed Design, using the Code Compliance Specifications compiled by Abba Energy. The Contractor will then follow the Code Compliance Specifications during the build, liaising with the Code Assessor on any changes.
Ene 5 Energy Labelled White Goods	Credits are awarded where each dwelling is provided with either information about the EU Energy Labelling Scheme, White Goods with ratings ranging from A+ to B or a combination of the previous according to the technical guide. Select the appropriate option below EU Energy labelling information only A+ rated appliances A rated washing machine and dishwasher B rated tumble dryer or washer dryer EU Energy labelling information provided	2 of 2 Credits	-	The design and the Contractor's specification will comply fully with the criteria for this issue.	The Design Team will incorporate the criteria to comply with this issue during Detailed Design, using the Code Compliance Specifications compiled by Abba Energy. The Contractor will then follow the Code Compliance Specifications during the build, liaising with the Code Assessor on any changes.
Ene 6 External Lighting	Credits are awarded based on the provision of space lighting* with dedicated energy efficient fittings and security lighting fittings with appropriate control gear Space Lighting None provided OR Non Code compliant lighting OR Code compliant lighting None provided OR Non Code compliant lighting OR Non Code compliant lighting OR Code compliant lighting and controls Dual lamp luminaires Compliant with both above criteria	2 of 2 Credits	-	The design and the Contractor's specification will comply fully with the criteria for this issue.	The Design Team will incorporate the criteria to comply with this issue during Detailed Design, using the Code Compliance Specifications compiled by Abba Energy. The Contractor will then follow the Code Compliance Specifications during the build, liaising with the Code Assessor on any changes.

Issue		Credits	Level	Assumptions Made	Evidence Required
Ene 7 Low or Zero Carbon Technologies	Credits are awarded where there is a 10% or 15% reduction in CO_2 emissions resulting from the use of low or zero carbon technologies. Select % contribution made by low or zero carbon technologies Less than 10% of demand OR 10% of demand or greater OR 15% of demand or greater	1 of 2 Credits	-	A gas, solar thermal and PV system will target a reduction of at least 10% in CO2 emissions through the use of LZC technologies resulting in one credit being awardable at this stage. The specified LZC technologies will need to be installed and certified under the Microgeneration Certification Scheme.	The Design Team will incorporate the criteria to comply with this issue during Detailed Design, using the Code Compliance Specifications compiled by Abba Energy. The Contractor will then follow the Code Compliance Specifications during the build, liaising with the Code Assessor on any changes.
Ene 8 Cycle Storage	Credits are awarded where adequate, safe, secure and weather proof cycle storage is provided according to the Code requirements. Fill in the development details below Number of bedrooms: Number of cycles stored per dwelling* * if you have storage for 1 cycle per two dwellings insert 0.5 in number of cycles stored per dwelling	0 of 2 Credits	-	Current design does not provide architecturally satisfying compliant provision, so credit not applied for.	
Ene 9 Home Office	A credit is awarded for the provision of a home office. The location, space and services provided must meet the Code requirements. Will there be provision for a Home Office? Yes OR No	1 of 1 Credits	-	A Daylight report will confirm compliance with the daylight criteria and suitable space and services will be specified, therefore one credit is awarded.	The Design Team will incorporate the criteria to comply with this issue during Detailed Design, using the Code Compliance Specifications compiled by Abba Energy. The Contractor will then follow the Code Compliance Specifications during the build, liaising with the Code Assessor on any changes.

CATEGORY	2 WATER Overall Level: 4	Overall Score	70.36		Evidence Required
% of Sectio	n Credits Predicted: 83.33	Credits	Level	Assumptions Made	(The below cells can be formatted by assessors if
Contribution	n to Overall Score: 7.50 points	5 of 6 Credits	Level 4		required.)
Indoor Water	Credits are awarded based on the predicted average household water consumption, calculated using the Code Water Calculator Tool. Minimum standards for each code level apply. Select the predicted water use / Mandatory Requirement greater than 120 litres/ person/ day OR ≤ less than 120 litres/ person/ day OR ≤ less than 110 litres/ person/ day OR ≤ less than 105 litres/ person/ day OR ≤ less than 90 litres/ person/ day OR ≤ less than 80 litres/ person/ day		Level 3 AND Level 4	requirement.	The Design Team will incorporate the criteria to comply with this issue during Detailed Design, using the Code Compliance Specifications compiled by Abba Energy. The Contractor will then follow the Code Compliance Specifications during the build, liaising with the Code Assessor on any changes.
Water Use	A credit is awarded where a compliant system is specified for collecting rainwater for external irrigation purposes. Where no outdoor space is provided the credit can be achieved by default. Select the scenario that applies No internal or communal outdoor space OR Outdoor space with collection system OR Outdoor space without collection system		-	, , ,	The Design Team will incorporate the criteria to comply with this issue during Detailed Design, using the Code Compliance Specifications compiled by Abba Energy. The Contractor will then follow the Code Compliance Specifications during the build, liaising with the Code Assessor on any changes.

CATEGOR	Y 3 MATERIALS Overall Level: 4	Overall Score	70.36		Evidence Required
_	on Credits Predicted: 66.66	Credits	Level	Assumptions Made	(The below cells can be formatted by assessors if
Contributi	ion to Overall Score: 4.80 points	16 of 24 Credits	All Levels		required.)
Mat 1 Environmental Impact of Materials	Mandatory Requirement: At least three of the five key building elements must achieve a Green Guide 2008 Rating of A+ to D. Tradable Credits: Points are awarded on a scale based on the Green Guide Rating of the specifications. The Code Materials Calculator can be used to predict a potential score. Mandatory Requirement Will the mandatory requirement be met? Enter the predicted score What is the predicted number of credits?		All Levels	Detailed Specifications of all relevant material elements are being developed in order to gain a good score of credits under this issue. Preliminary estimates grant 10 credits.	The Design Team will incorporate the criteria to comply with this issue during Detailed Design, using the Code Compliance Specifications compiled by Abba Energy. The Contractor will then follow the Code Compliance Specifications during the build, liaising with the Code Assessor on any changes.
Mat 2 Responsible Sourcing of Materials - Basic Building Elements	Credits are awarded where materials used in the basic building elements are responsibly sourced. The Code Materials Calculator can be used to predict a potential score. Enter the predicted Score What is the predicted number of credits?	6 of 6 Credits	-	Detailed Specifications of all relevant material elements are being developed in order to gain a good score of credits under this issue. Preliminary estimates grant 6 credits. Responsible sourcing supply lines and Certificates will target full compliance for this issue.	The Design Team will incorporate the criteria to comply with this issue during Detailed Design, using the Code Compliance Specifications compiled by Abba Energy. The Contractor will then follow the Code Compliance Specifications during the build, liaising with the Code Assessor on any changes.
Mat 3 Responsible Sourcing of Materials - Finishing Elements	Credits are awarded where materials used in the finishing elements are responsibly sourced. The Code Materials Calculator can be used to predict a potential score. Enter the predicted Score What is the predicted number of credits?	0 of 3 Credits	-		

CATEGORY	4 SURFACE WATER RUI	N-OFF Overall Level	: 4	Overall Score	70.36		Evidence Required
% of Section	n Credits Predicted:	100.00%		Credits	Level	Assumptions Made	(The below cells can be formatted by assessors if
	n to Overall Score:			4 of 4 Credits	All Levels		required.)
Sur 1 Management of Surface Water Run-off from developments	no greater for the d development site and rainwater discharge ca reduced as far as pos criteria. Desiging the local drainage system used to improve water	t: Peak rate of run-off into wate leveloped site than it was for that the additional predicted aused by the new development sible in accordance with the drainage system to be able to failure. <u>Tradable Credits:</u> Where quality of the rainwater dischalof the receiving waters.	the pre- volume of is entirely assessment cope with e SUDS are			Hard surface areas will not be increased between the Existing and the Proposed schemes. Drawings and Calculations will be provided to demonstrate that the mandatory requirements will be met.Furthermore attenuation will be provided that enables full compliance with this issue.	The Design Team will incorporate the criteria to comply with this issue during Detailed Design, using the Code Compliance Specifications compiled by Abba Energy. The Contractor will then follow the Code Compliance Specifications during the build, liaising with the Code Assessor on any changes.
	Mandatory Requirement						
	Г						
		ndatory requirement be met?					
	Select the appropriate of	ption					
	No SUDS						
	5 mm of rai	ito watercourses for the first nfall	abla				
		hard surfaces will receive an	✓	2 of 2 Credits	All Levels		
	appropriate	level of treatment					
Sur 2 Flood Risk	low flood risk or whe appropriate measures property and its content the technical guide. Select the annual proba Zone 1 - Lov OR Zone 2 - Me OR Zone 3 - Hig Select the apropriate op Low risk of All meas demonstrate Ground floo	dium gh stion(s) flooding from FRA** sures of protection are	flood risk ge to the criteria in	2 of 2 Credits	-	The Environment Agency Flood map indicates a low risk of flooding. This will need to be verified by a FRA prepared according to good practice guidance as outlined in PPS25 that takes in to account all sources of local flooding to ensure that the credits have been correctly awarded.	The Design Team will incorporate the criteria to comply with this issue during Detailed Design, using the Code Compliance Specifications compiled by Abba Energy. The Contractor will then follow the Code Compliance Specifications during the build, liaising with the Code Assessor on any changes.
	* Planning Policy Statement 2 ** FRA - Flood Risk Assessmer	=					

CATEGORY 5 WA	ASTE	Overall Level	: 4	Overall Score	70.36		Evidence Required
% of Section Cre	edits Predicted:	87.00%		Credits	Level	Assumptions Made	(The below cells can be formatted by assessors if
Contribution to	Overall Score:	5.60 points		7 of 8 Credits	All Levels		required.)
Was 1 Storage of non- recyclable waste and recyclable household waste	ndatory Requirement of the street of the str	ent: The space provided for was did the larger of either all external land Authority or the min capacity dable Credits are awarded for nal recycling facilities. In the mum space be provided and to disabled people? Usehold-waste storage Is no external recyclable waste o Local Authority collection In the mum space be provided and to disabled people?	containers calculated	0 of 2 Credits		The design and the Contractor's specification will comply fully with the criteria for this issue.	The Design Team will incorporate the criteria to comply with this issue during Detailed Design, using the Code Compliance Specifications compiled by Abba Energy. The Contractor will then follow the Code Compliance Specifications during the build, liaising with the Code Assessor on any changes.
	Pre-collection Internal stora External Storage, no L 3 separate in (capacity 30 AND Houses External Stor Flats Private recycle	ge (capacity 30 litres) n sorting ge (3 separate bins, capacity 30 litres) ocal Authority collection scheme ternal storage bins itres) age(capacity 180 litres)		4 of 4 Credits 0 of 4 Credits	All Levels		

Issue		Credits	Level	Assumptions Made	Evidence Required
Was 2 Construction Site Waste Management	A credit is awarded where a compliant SWMP is provided with targets and procedures to minimise construction waste. Credits are available where the SWMP include procedures and commitments for diverting either 50% or 85% of waste generated from landfill. SWMP details Does the SWMP include: + No SWMP + SWMP with targets and procedures to minimise waste? + SWMP with procedures to divert 50% of waste + SWMP with procedures to divert 85% of waste			The design and the Contractor's specification will comply fully with the criteria for this issue.	The Contractor will follow the Code Compliance Specifications compiled by Abba Energy during the build, liaising with the Code Assessor on any changes.
Was 3 Composting	A credit is awarded where individual home composting facilities are provided, or where a community/ communal composting service, either run by the Local Authority or overseen by a management plan is in operation. Select the facilities available No composting facilities Individual composting facilities OR Communal/ community composting*? Local Authority OR Private with management plan * including if an automated waste collection system is in place		-	This credit not applied for at present due to space restrictions on site.	As an option for potential credit the Code Assessor will include the criteria requirements within the detailed Code Compliance Specifications for this issue, when issued for the Contractor and Project Team to follow.

CATEGOR	6 POLLUTION Overall Level: 4	Overall Score	70.36		Evidence Required
% of Section Credits Predicted: 100,00%		Credits	Level	Assumptions Made	(The below cells can be formatted by assessors if
Contribut	on to Overall Score: 2.80 points	4 of 4 Credits	All Levels		required.)
Pol 1 Global Warming Potential (GWP) of Insulants	A credit is awarded where <u>all</u> insulating materials only use substances (in manufacture AND installation) that have a GWP of less than 5. Select the most appropriate option All insulants have a GWP less than 5 OR Some insulants have a GWP of less than 5 OR No insulants have a GWP of less than 5		-		The Design Team will incorporate the criteria to comply with this issue during Detailed Design, using the Code Compliance Specifications compiled by Abba Energy. The Contractor will then follow the Code Compliance Specifications during the build, liaising with the Code Assessor on any changes.
Pol 2 NOx Emissions	Credits are awarded on the basis of NOx emissions arising from the operation of the space and water heating system within the dwelling. Greater than 100 mg/kWh OR Less than 100 mg/kWh OR Less than 70 mg/kWh OR Less than 40 mg/kWh OR Class 4 boiler OR Class 5 boiler OR All space and hot water energy requirements are met by systems who do not produce NOx emissions	3 of 3 Credits	-		The Design Team will incorporate the criteria to comply with this issue during Detailed Design, using the Code Compliance Specifications compiled by Abba Energy. The Contractor will then follow the Code Compliance Specifications during the build, liaising with the Code Assessor on any changes.

CATEGORY	7 HEALTH & WELLBEING Overall Level: 4	Overall Score	70.36		Evidence Required
% of Section	on Credits Predicted: 41.00%	Credits	Level	Assumptions Made	(The below cells can be formatted by assessors if
Contributi	on to Overall Score: 5.83 points	5 of 12 Credits	No level		required.)
Hea 1 Daylighting	Credits are awarded for ensuring key rooms in the dwelling have high daylight factors (DF) and a view of the sky. Room	0 of 3 Credits	-	The DF required for the Study will be met, in full compliance with Ene9. Further daylight analysis may be able to confirm compliance with daylight factors and View of the Sky criteria. Abba Energy is able to offer a Daylight Report service. Currently no further credits can be assumed at this stage.	The Design Team will incorporate the criteria to comply with this issue during Detailed Design, using the Code Compliance Specifications compiled by Abba Energy. The Contractor will then follow the Code Compliance Specifications during the build, liaising with the Code Assessor on any changes.
Hea 2 Sound Insulation	Credits are awarded where performance standards exceed those required in Building Regulations Part E. This can be demonstrated by carrying out pre-completion testing or through the use of Robust Details Limited. Select a type of property Detached Property Attached Properties: - Separating walls and floors only exist between non habitable spaces - Separating walls and floors exist between habitable spaces Select a performance standard Performance standard Performance standard not sought Airborne: 3db higher; Impact: 3dB lower OR Airborne: 5db higher; Impact: 5dB lower OR Airborne: 8db higher; Impact: 8dB lower	4 of 4 Credits	-	The design and the Contractor's specification will comply fully with the criteria for this issue.	The Design Team will incorporate the criteria to comply with this issue during Detailed Design, using the Code Compliance Specifications compiled by Abba Energy. The Contractor will then follow the Code Compliance Specifications during the build, liaising with the Code Assessor on any changes.

Issue		Credits	Level	Assumptions Made	Evidence Required
Hea 3 Private Space	A credit is awarded for the provision of an outdoor space that is at least partially private. The space must allow easy access to all occupants. Will a private/semi-private space be provided? Yes, private/semi-private space will be provided OR No private/semi-private space	1 of 1 Credits	-	The design and the Contractor's specification will comply fully with the criteria for this issue.	The Design Team will incorporate the criteria to comply with this issue during Detailed Design, using the Code Compliance Specifications compiled by Abba Energy. The Contractor will then follow the Code Compliance Specifications during the build, liaising with the Code Assessor on any changes.
Hea 4 Lifetime Homes	Mandatory Requirement: Lifetime Homes is mandatory when a dwelling is to achieve Code Level 6. Tradable credits: Credits are awarded where the developer has implemented all of the principles of the Lifetime Homes scheme. Mandatory Requirement Dwelling to achieve Code Level 6? Lifetime Homes Compliance All Lifetime Homes criteria will be met OR Exemption from LTH criteria 2/3 applied Credit not sought	0 of 4 Credits	No level	Credit not applied for.	

CATEGORY	8 MANAGEMENT Overall Level: 4	Overall Score	70.36		Evidence Required	
% of Section Credits Predicted: 100.00%		Credits	Level	Assumptions Made	(The below cells can be formatted by assessors if	
Contribution to Overall Score: 10.00 points			All Levels		required.)	
Man 1 Home User Guide	Credits are awarded where a simple guide is provided to each dwelling covering information relevant to the 'non-technical home occupier, in accordance with the Code requirements. Tick the topics covered by the Home User Guide Operational Issues? Site and Surroundings? Is available in alternative formats?		-	The design and the Contractor's specification will comply fully with the criteria for this issue.	The Contractor will follow the Code Compliance Specifications compiled by Abba Energy to compile (or engage others to compile) a suitable publication for this purpose, liaising with the Code Assessor on any variations to the Specification requirements.	
Man 2 Considerate Constructors Scheme	Credits are awarded where there is a commitment to comply with best practice site management principles using either the Considerate Constructors Scheme or an alternative locally/nationally recognised scheme. Select the appropriate scheme and score No scheme used Considerate Constructors OR Best Practice: Score between 24 and 31.5 OR Best Practice+: Score between 32 and 40 Alternative Scheme* OR Mandatory + 50% optional requirements OR Mandatory + 80% optional requirements	2 of 2 Credits	-	The design and the Contractor's specification will comply fully with the criteria for this issue. N.B. Since January 2013 the CCS scoring system has changed with the benchmark scores for achieving significantly beyond Best Practice being between 35 and 50 with a score of at least 7 in each of the 5 sections.	The Contractor will follow the Code Compliance Specifications compiled by Abba Energy during the build, liaising with the Code Assessor on any changes.	
	* In the first instance, contact a Code Service Provider if you are considering to use an alternative scheme.					
Man 3 Construction Site Impacts	Credits are awarded where there is a commitment and strategy to operate site management procedures on site as following: Monitor, report and set targets, where applicable, for: CO ₂ / energy use from site activities CO ₂ / energy use from site related transport water consumption from site activities Adopt best practice policies in respect of: air (dust) pollution from site activities water (ground and surface) pollution on site 80% of site timber is reclaimed, re-used or responsibly sourced view of the management of the source of the s	2 of 2 Credits	-	The design and the Contractor's specification will comply fully with the criteria for this issue.	The Contractor will follow the Code Compliance Specifications compiled by Abba Energy during the build, liaising with the Code Assessor on any changes. On day one a water check meter must be installed on site, then read and monitored monthly thereafter.	

Issue		Credits	Level	Assumptions Made	Evidence Required
	Credits are awarded for complying with Section 2 - Physical Security from Secured by Design - New Homes. An Architectural Liaison Officer (ALO), or alternative, needs to be appointed early in the design process and their recommendations incorporated. Secured by Design Compliance				The Design Team will incorporate the criteria to comply with this issue during Detailed Design, using the Code Compliance Specifications compiled by Abba Energy. The Contractor will then follow the Code Compliance Specifications during the build, liaising with the Code Assessor on any changes.
	Credit not sought OR Secured by Design Section 2 Compliance	2 of 2 Credits	-		

CATEGORY 9 ECOLOGY Overall Level: 4	Overall Score	70.36		Evidence Required
% of Section Credits Predicted: 77.00%	Credits	Level	Assumptions Made	(The below cells can be formatted by assessors if
Contribution to Overall Score: 9.33 points	7 of 9 Credits	All Levels		required.)
Eco 1 Ecological Value of Site One credit is awarded for developing land of inherently low value. Select the appropriate option Credit not sought OR Land has ecological value OR Land has low/ insignificant ecological value*	1 of 1 Credits	ı	Existing site of buildings on hard surfaces has no ecological value, therefore this credit is complied with by default.	The Contractor will follow the Code Compliance Specifications compiled by Abba Energy during the build, liaising with the Code Assessor on any changes.
*Low ecological value is determined either a) by using Checklist Eco 1 across the whole development site; or b) where an suitably qualified ecologist is appointed and can confirm or c) produces an independent ecological report of the site, that the construction zone is of low/ insignificant value; AND the rest of the development site will remain undisturbed by the works.				
Eco 2 Ecological Enhancement A credit is awarded where there is a commitment to enhance the ecological value of the development site. Will a Suitably Qualified Ecologist be appointed to recommend appropriate ecological features? AND Will all key recommendations be adopted?	1 of 1 Credits	-	A suitably qualified ecologist will be appointed to recommend appropriate ecological features and all key recommendations will be implemented along with 30% of other recommendations, gaining one credit.	The Contractor will follow the Code Compliance Specifications compiled by Abba Energy during the build, liaising with the Code Assessor on any changes.
A credit is awarded where there is a commitment to maintain and adequately protect features of ecological value. Type and protection of existing features Site with features of ecological value? OR Site of low ecological value (as Eco 1)? AND All* existing features potentially affected by site works are maintained and adequately protected? "If a suitably qualified ecologist has confirmed that a feature can be removed due to insignificant ecological value or poor health conditions, as long all the rest have been protected, then this box can be ticked.	1 of 1 Credits	-	Existing site has no ecological value, therefore this credit is complied with by default.	The Contractor will follow the Code Compliance Specifications compiled by Abba Energy during the build, liaising with the Code Assessor on any changes.

Issue		Credits	Level	Assumptions Made	Evidence Required
Eco 4 Change of Ecological Value of Site	Credits are awarded where the change in ecological value has been calculated in accordance with the Code requirements and is calculated to be: Change in Ecological Value Major negative change: fewer than -9 Minor negative change: between -9 and -3 OR Neutral: between -3 and +3 Minor enhancement: between +3 and +9 Major enhancement: greater than 9	2 of 4 Credits	-	Existing site has no ecological value, therefore this credit is complied with by default.	The Contractor will follow the Code Compliance Specifications compiled by Abba Energy during the build, liaising with the Code Assessor on any changes.
Eco 5 Building Footprint	Credits are awarded where the ratio of combined floor area of all dwellings on the site to their footprint is: Ratio of Net Internal Floor Area: Net Internal Ground Floor Area Credit Not Sought OR Houses: 2.5:1 OR Flats: 3:1 OR Houses: 3:1 OR Flats: 4:1 OR Houses & Flats Weighted (2.5:1 & 3:1) OR Houses & Flats Weighted (3:1 & 4:1)	2 of 2 Credits		Each house will be 4 storeys high and therefore fully comply with this issue.	The Design Team will incorporate the criteria to comply with this issue during Detailed Design, using the Code Compliance Specifications compiled by Abba Energy. The Contractor will then follow the Code Compliance Specifications during the build, liaising with the Code Assessor on any changes.

CONCLUSION

The Code for Sustainable Homes assesses the environmental quality of a development by considering the broad concerns of climate change, use of resources, pollution, and impacts on bio-diversity. These concerns are balanced against their need for a high quality internal environment. The Code Certification pass marks are 36% (Level 1), 48% (Level 2), 57% (Level 3), 68% (Level 4), 84% (Level 5) and 90% (Level 6). However, these can only be applied after all categories have been sub-totalled into their overall 'Issue' categories. At such time scores are 'weighted' and the final marks then calculated.

The Preliminary rating for this scheme is estimated as achieving the Target Rating if the issues awarded with credits are implemented in full.

To allow for a margin of safety, it is recommended that a score that is at least 5.0% in excess of the required target percentage is specified. This is because failure on any major issue may force unexpected or unwanted alternative strategies to achieve the desired rating and potentially additional expense.

The Project Team should check and confirm the data and assumptions contained within this report at the earliest opportunity. This will aid the timely and accurate submission of data for the Interim Code Assessment.

The project team should ensure that the drawings and specifications follow AND clearly state ALL the relevant Code issues for each of the applicable credits. Please note that for the Interim Stage Assessment, without the evidence, the assessor cannot award the credits for such certificated assessment. Once the relevant Code issues are integrated with the design, ALL compliant data (auditable proof, as described in the Code Technical Guide) should then be submitted to the Assessor for the Interim Stage report to be written. Once this report is finished it can be submitted to the BRE for QA and Interim Certification, as necessary. This is then followed by the Post Construction Stage report, which is compiled following site visit(s), receipt of "as built" evidence and ultimately, Post Construction Certification.

REFERENCES

This report was based on the following drawings along with written, verbal and web-based evidence:

Drawing No. Reference		Status/Revision	Dated
Existing Drawings.pdf		Existing	26/07/2013
Proposed Drawings.pdf	(Approved scheme prior to April 2014)	Proposed/ various revisions	26/07/2013
200_32_16 pro basement plan op B.p.	df	Pre-planning	04/2014

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