LINTON HOUSE RESIDENTIAL - CODE FOR SUSTAINABLE HOMES HITLIST

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2640 / Linton House / Rev A

Key to colours in category section

red: credits not achieved amber: credits part achieved subject to evidence green: credits achieved; no further evidence required

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Desired Code Level:	4	Prepared by: Anna Fleming	Rev:	Α		Predicted Level:	4
Points required:	68	Checked by: Jim Grace	Date:	16/03/2015		Target Credits:	69.08
			-		_	Achieved Credits:	0.00
The following items are MANDATORY for code level 4 irrespective of the credits total.						Achieved Level:	0

Ene 1 - CO2: CO2 reduction compared to Building Regs minimum must be NO LESS than 19%

Ene 2 - Fabric En Eff: None for Code Level 4

Wat 1 - Int. Usage: Water consumption per person per day must be NO MORE than 105 l/person/day

Mat 1 - Materials: At least 3 of the following elements MUST be rated D, or better, in the Green Guide; Roof, External walls, Internal Walls, Upper&Ground Floors, Windows

Sur 1 - Water run-off: Run-off rates and annual volumes of run-off post development MUST BE NO GREATER than the previous conditions for the site.

Was 1 - Waste: Space allowed for waste storage must be the greater of the following; a) As required by Local Authority recycling scheme, OR, b) As Calculated by BS5906

Hea 4 - Lifetime Homes: None for Code level 4

M&E Engineer	Synergy
Contractor	CONT
Architect	ARCH
Structural Eng	SE
Ecologist	Ecologist
Daylighting	Daylight
Acoustician	Acoustician

	Proposal	Details	Max Credits	Target Credits	Weighted Credits	Achieved Credits	Ownership	Notes
ENERGY			31	15	18.4	0.0		
Ene 1 - CO2	2013 DER is 44% better than TER	Taken From SAP Calculation	10	5	5.9		Synergy	
Ene 2 - Fabric Energy Efficiency	Apartment Block, or mid-terrace	FEE = 64 kWh/m2/yr	9	0	0.0		Synergy	
Ene 3- Energy Display devices	Electricity AND primary heating fuel consumption displayed		2	2	2.5		Synergy	
Ene 4 - Drying Space	Yes		1	1	1.3		ARCH	
Ene 5 - White Goods	fridges , freezers, wmc & d/w (2 credits)	Fridges, freezers and fridge/freezers Cat A+ Rated, Washing machines and dishwashers Cat A rated, Washer dryers and tumble dryers Cat B rated	2	2	2.5		CONT / ARCH	
Ene 6 - External Ltg	Energy eff. security ltg AND Energy eff. external ltg (2 credits)	External lighting provided by dedicated energy efficient fittings.Burglar security lights have: a maximum wattage of 150W AND movement detecting control devices (PIR) AND daylight cut-off sensors. All other security lighting: has dedicated energy efficient fittings AND is fitted with daylight cut-off sensors OR timers.	2	2	2.5		Synergy	
Ene 7 - ZLC	15% Renewables (2 credits)	Where energy is supplied from local renewable or low carbon energy sources funded under the Low Carbon Building Programme (or similar), or is designed and installed in a manner endorsed by a feasibility study prepared by an independent energy specialist AND There is a 15% reduction in carbon emissions as a result of this method of supply.	2	2	2.5		Synergy	For Flats 1-6 2 Credits are awarded (Renewables > 15%) For Flats 7-9 1 Credit is awarded (10% < Renewables < 15%)
Ene 8 - Cycle Storage	No cycle storage (0 credits)	No Storage	2	0	0.0		ARCH	
Ene 9 - Home Office	Home Office (1 credit)	Home office should have: (a) 2No. Double power sockets (b) 2No. Telephone points (or 1 telephone pt plus 1 broadband connection to the property) (c) daylight factor of 1.5% (d) adequate ventilation (openable window or PSV)	1	1	1.3		ARCH / Synergy	

	Proposal	Details	Max Credits	Target Credits	Weighted Credits	Achieved Credits	Ownership	Notes
WATER			6	4	6.0			
Wat 1 - Int. Usage	≤ 105 l/p/day (3 Credits)		5	3	4.5		ARCH	
Wat 2 - Ext. Usage	Gardens / rw storage (1 credit)	Terraces & Patios:- 100I minimum 1-2beds + private garden:- 150I minimum 3beds + private garden :- 200I minimum Communal :- 200I min, 1I/m2 for gardens larger than 200m2	1	1	1.5			
MATERIALS			24	12	3.6	0		•
Mat 1 - Materials	A	Green Guide Rating for roof	3	2	0.6		ARCH	
	A	Green Guide Rating for external walls	3	2	0.6		ARCH	
	А	Green Guide Rating for internal walls	3	2	0.6		ARCH	
	В	Green Guide Rating for upper and ground floors	3	1	0.3		ARCH	
	В	Green Guide Rating for windows	3	1	0.3		ARCH	
Mat 2 - Sourcing basic Building elements	Cert's mostly 4th Tier (2 credits)	Most materials certified EMS	6	2	0.6		CONT / ARCH	
Mat 3 - Sourcing Finishing elements	Cert's 1st & 3rd Tiers (2 credits)	Some materials certified FSC, CSA,SFI with CoC,PEFC,or reused materials, some certified MTCC,SGS,TFT or EMS	3	2	0.6		CONT / ARCH	
SURFACE WATER RUN-OFF		4	4	2.2	0		•	
Sur 1 - Water run-off	No discharge at low rainfall AND SUDS to hard areas (2 credits)		2	2	1.1		SE	
Sur 2 - Flood risk	Low flood risk site - 2 credits		2	2	1.1		SE	
WASTE			8	7	5.6	0.0		
Was 1 - Waste	Local Collection scheme or external storage available (4 credits)		4	4	3.2		ARCH	
Was 2 - Construction Site Waste	Procedures to minimise waste and reduce landfill by 50%(2 credits)	a. Set best practice targets for waste per 100m2 b. Minimize non-hazardous waste at design stage. c.Procedures for minimizing non-hazardous waste d.Monitor, measure and report non-hazardous waste AND divert 50 % of construction waste fro landfill to re-use, or salvage, or supplier take-back	3	2	1.6		CONT	
Was 3 - Composting	Local Authority kitchen waste collection scheme (1credit)		1	1	0.8	0		
POLLUTION		4	1	0.7	0			
Pol 1 - GWP	All insulants have GWP ≤ 5 (1 credit)	All insulants in the following elements need a GWP ≤ 5: -Roofs: Including loft access -Walls, internal & external incl. lintels and all acoustic insulation) -Floors (including ground and upper floors) -Hot water cylinder, pipe insulation and other thermal stores -Cold water storage tanks where provided -External Doors	1	1	0.7		ARCH / Synergy	
Pol 2 - NOx	NOx > 100 mg/kWh (0 credits)	0	3	0	0.0		Synergy	
	Proposal	Details	Max Credits	Target Credits	Weighted Credits	Achieved Credits	Ownership	Notes

HEALTH AND WELLBEING		12	10	11.7	0.0			
Hea 1 - Daylight	Kitchen daylight factor > 2 (1 credit)	Kitchens achieve a minimum average daylight factor of at least 2%	1	1	1.2		ARCH / Daylight	
	Other rooms daylight factor > 1.5 (1 credit)	All living rooms, dining rooms and studies (including any room designated as a home office under Ene 9 - Home Office) must achieve a minimum average daylight factor of at least 1.5%	1	1	1.2		ARCH / Daylight	
	Sky visible from < 80% of working plane (0 credits)	80% of the working plane in kitchens, living rooms, dining rooms and studies (including any room designated as a home office under Ene 9 - Home Office) must receive direct light from the sky.	1	0	0.0		ARCH / Daylight	
Hea 2 - Sound	Non-detached (3 credits)	airborne & impact sound attenuation 5db better than part E	4	3	3.5		ARCH / Acoustician	
Hea 3 - Private Space	Yes (1 credit)	outdoor space (private or semi-private) has been provided that is: a) of a minimum size that allows all occupants to sit outside b) allows easy access to all occupants, including wheelchair users c) accessible only to occupants of designated dwellings	1	1	1.2		ARCH	
Hea 4 - Lifetime Homes	All (4 credits)	All the principles of lifetime homes have been complied with	4	4	4.7		ARCH	
MANAGEMENT	MANAGEMENT		9	8	8.9	0.0		
Man 1 - Home User Guide	Yes (3 credits)	Home User Guide WILL be provided	3	3	3.3		CONT	
Man 2 - Considerate constructor	Best Practice (1 credit)	Commitment to meet Best Practice under a local or national considerate constructor scheme.	2	1	1.1		CONT	
Man 3 - Construction site impact	4 or more procedures (2 credits)	No. of procedures adopted from the list, a-f, opposite	2	2	2.2		CONT	a. Monitor, report and set targets for CO2 production or energy use arising from site activities b. Monitor and report CO2 or energy use arising from commercial transport to and from site c. Monitor, report and set targets for water consumption from site activities d. Adopt best practice policies in respect of air (dust) pollution arising from site activities e. Adopt best practice policies in respect of water (ground and surface) pollution occurring on the site f. 80% of site timber is reclaimed, re-used or responsibly sourced.
Man 4 - Security	Yes (1 credit)	Architectural Liaison Officer (ALO) or Crime Prevention Design Advisor (CPDA) from the local police force is NOT consulted at the design stage and their recommendations are incorporated into the design of the dwelling	2	2	2.2		ARCH	Need to review is information provided is adequate.
ECOLOGY		9	9	12.0	0.0	1	•	
Eco 1 - Ecological value	Low - confirmed by checklist (1 credit)		1	1	1.3		ARCH / Ecologist	
Eco 2 - Enhancement	Yes (1 credit)	A Suitably Qualified Ecologist must be appointed to recommend appropriate ecological features that will positively enhance the ecology of the site	1	1	1.3		ARCH / Ecologist	
Eco 3 - Protection	Low value site (1 credit)	If the site is of low ecological value as defined under Eco 1, then 1 credit may be awarded by default	1	1	1.3		ARCH / Ecologist	
Eco 4 - Species	Major enhancement (4 credits)	No. of species increased by more than 9	4	4	5.3		ARCH / Ecologist	
Eco 5 - Building Footprint	Efficient (2 credits)	Houses: Internal Floor area is MORE than 3 x Ground floor area Flats: Internal Floor area is MORE than 4 x Ground floor area	2	2	2.7		ARCH	