

Latchmere House

BREEAM Credit Tracker

Design Stage

Uncontrolled revision

25 Feb 2016

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1.0 Introduction

This report is intended as a summary of progress against the targeted credits for the following BREEAM assessment:

Project Name	Latchmere House			
BREEAM Version	BREEAM 2014 Domestic Refurb			
Assessment Stage	Design Stage			
Lead Assessor	Naomi Sadler			
Targeted Score	73.78			
Target Rating	Excellent (70%)			
Current Score	4.47			
Current Rating	Unclassified			
Downloaded By	Naomi Sadler			
Download Date	25/02/16			
Download Time	14:50:10 (UTC)			

Please note that this is an uncontrolled copy and is for information only. Formal progress reports will be issued by your licensed assessor at key stages of the project. If you have any queries on the content of this report or the award of any of the credits please contact your licensed assessor as noted above.

Within the report the progress against each credit will be marked as follows:

Red	Not yet started	No information received
Amber	Ongoing	Partial information received OR full credits no longer achievable.
Green	Achieved	All required information received and credit awarded.
Grey	Not targeted	Not targeted.



Minimum Standards

In addition performance against the minimum standards (required for the specified target rating) is summarised below;

Issue	Awarded	Maximum Rating	Met
Hea 05 - Ventilation	0	Unclassified	×
Hea 06 - Safety	0	Unclassified	×
Ene 02 - Energy Efficiency Rating Post Refurbishment	0	Unclassified	×
Wat 01 - Internal Water Use	0	Good	×
Pol 03 - Flooding	2	Outstanding	/
Mat 02 - Responsible Sourcing of Materials	0	Unclassified	×

If the required minimum standards are not met then the target rating will not be achieved regardless of overall score.



2.0 - Credit Summary

	Available	Targeted	Potential	Awarded	Responsibility
Management	_	_	_	_	
Man 01 Home Users Guide	3	3	0	0	
Man 02 Responsible Construction Practices	2	2	0	0	
Man 03 Construction Site Impacts	1	1	0	0	
Man 04 Security	2	2	0	0	
Man 05 Protection and Enhancement of Ecological Features	1	1	0	0	Rosy Benbow
Man 06 Project Management	2	2	0	0	
	11	11	0	0	
Health & Wellbeing					
Hea 01 Daylighting	2	0	0	0	
Hea 02 Sound Insulation	4	3	0	0	
Hea 03 Volatile Organic Compounds	1	1	0	0	Lee Atkins
Hea 04 Inclusive Design	2	2	0	0	Mark Baker, Chris Howe
Hea 05 Ventilation	2	1	0	0	John Draper
Hea 06 Safety	1	1	0	0	Mark Baker, Chris Howe
	12	8	0	0	
Energy					
Ene 01 Improvement in Energy Efficiency Rating	6	3	0	0	
Ene 02 Energy Efficiency Rating Post Refurbishment	4	2.5	0	0	
Ene 03 Primary Energy Demand	7	0	0	0	
Ene 04 Renewable Technologies	2	1	0	0	
Ene 05 Energy Labelled White Goods	2	1	0	0	
Ene 06 Drying Space	1	1	0	0	
Ene 07 Lighting	2	2	0	0	John Draper
Ene 08 Energy Display Devices	2	2	0	0	,
Ene 09 Cycle Storage	2	2	0	2	
Ene 10 Home Office	1	1	0	0	
	29	15.5	0	2	
Water			_	_	
Wat 01 Internal Water Use	3	2	0	0	Lee Atkins
Wat 02 External Water Use	1	1	0	0	Lee Atkins
Wat 03 Water Meter	1	1	0	0	John Draper
That OF Water Meter	5	4	0	0	John Braper
Materials	J	7	U	O	
Mat 01 Environmental Impact of Materials	25	20	0	0	
Mat 02 Responsible Sourcing of Materials	25 15	7	0	0	
Mat 03 Insulation	8	7	0	0	
ווסטומנוטוו	48	34	0	0	
	40	54	U	U	





Waste					
Wst 01 Household Waste	2	2	0	0	
Wst 02 Refurbishment Site Waste Management	3	3	0	0	
	5	5	0	0	
Pollution					
Pol 01 Nitrogen Oxide Emissions	3	3	0	0	John Draper
Pol 02 Surface Water Runoff	3	3	0	0	Philip Richards
Pol 03 Flooding	2	2	0	2	
	8	8	0	2	_
Innovation					
Man 02 Responsible Construction Practices	1	1	0	0	
Man 05 Protection and Enhancement of Ecological Value	1	1	0	0	
Man 06 Project Management	2	2	0	0	
Hea 04 Inclusive Design	1	0	0	0	
Ene 02 Energy Efficiency Rating Post Refurbishment	2	0	0	0	
Ene 08 Display Energy Devices	1	0	0	0	
Wat 01 Internal Water Use	1	0	0	0	
Wst 02 Refurbishment Site Waste Management	1	0	0	0	
Pol 02 Surface Water Run-off	1	0	0	0	
Al Approved Innovation	1	0	0	0	
	12	4	0	0	





3.0 - Credit Progress Log

		Available	Targeted	Achieved	Action	Status	Information Outstanding / Comments
Managen	nent						
Man 01	Home Users Guide	3	3	0			Credit 1: Provision of a home users guide containing the information listed in the 'User Guide Contents List' to all homes. Outstanding Requirement: 1.
							Comments: Please confirm Berkeley will provide a home users guide: Where a Home User Guide containing the information listed in the 'User Guide Contents List' has been produced and supplied to all homes.
Man 02	Responsible Construction Practices	2	2	0			Credit 1: Use of Considerate Constructors Scheme (or suitable alternative) Outstanding Requirements: 1, 2, 3, 4.
							Comments: Please provide written confirmation: that registration with the Considerate Constructor Scheme and achieve 35–39 with a score of 7 in each section for formal certification under the scheme.
Man 03	Construction Site Impacts	1	1	0			Credit 1: Construction site management Outstanding Requirements: 1, 2.
							Comments: One credits have been provisionally awarded. Please provide a completed signed and dated copy of Checklist A-4.
							Evidence is received to demonstrates that there is a commitment and a strategy to monitor, and report CO2 or energy arising from site activities, monitor water consumption from site activities, adopt best practices in respect to water and dust pollution on site and timber policy which compiles to the requirements set out in the A-4 checklist. Evidence of EMS or 140001 not yet received.



Man 04	Security	2	2	0	Credit 1: Secure windows / doors OR Secured by Design Outstanding Requirements: 1, 2, 3, 4.
					Comments: One Credit - Where retained external doors and accessible windows comply with the minimum security requirements as set out in - External doors are of good quality with working key locks and a strong frame, where there is no sign of warping, splitting or rotting to the door or its frame. Where the door contains glazing this should be a minimum of double glazing. Putty or beading to glazed areas should be on the unexposed side of the door, in good condition, with no sign of degradation. Accessible Windows should have a minimum of double glazing with working key locks. Putty or beading to glazed areas should be on the
					unexposed side of the window, in good condition, with no sign of degradation. The window frame should be strong with no sign of warping, splitting or rot.
					Two Credits - Development achieves SBD award and a suitably qualified security consultant such as the Police Architectural Liaison Officer (ALO) or Crime prevention design advisor (CPDA) is consulted at the design stage and their recommendations are incorporated into the refurbishment specification.





Man 05	Protection and Enhancement of Ecological Features	1	1	0	Rosy Benbow	Credit 1: Protecting ecological features Outstanding Requirements: 2, 3.
						Comments: Please provide the following to meet the credit requirements: 1. A copy of the notification sent to the Statutory Nature Conservation Organisation (SNCO) outlining the presence of protected species onsite (where applicable). AND 2. Written confirmation from the developer confirming that the recommendations from the Statutory Nature Conservation Organisation (SNCO) have been implemented 3. Written confirmation from the developer that ecological features have been adequately protected. 4. Written evidence from the appropriate statutory body of any requirement to remove any features for health and safety or conservation reasons (where appropriate) 5. Written confirmation that all EU and UK law with regards to protected species have been or will be complied with(where appropriate) This can be in the form of a BREEAM ECO 2 and 3 requirements under CSH.





Man 06	Project Management	2	2	0	Credit 1: Project roles & responsibilities Outstanding Requirement: 1.
					Credit 2: Handover & aftercare Outstanding Requirements: 2, 3.
					Comments: First credit - Project Roles and Responsibilities - the project manager assigns individual and shared responsibilities across the following key design and refurbishment stages, please update the responsibilities schedule to include:
					Planning and Building control notification Design Refurbishment Commissioning and handover Occupation Second credit - Handover and Aftercare - Provide written confirmation of a commitment or contract to provide compliant aftercare support and training or a compliant design stage commitment to provide
					aftercare. Where a handover meeting is arranged and where 2 or more of items a-c have been committed to determine project success:
					 A site inspection within 3 months of occupation. Conduct post occupancy interviews with building occupants or a survey via phone or posted information within 3 months of occupation. Longer term after care e.g. a helpline, nominated individual or other appropriate system to support building users for at least the first 12 months of occupation.
Managem	ent score	11	11	0	
Health &	Wellbeing				
Hea 01	Daylighting	2	0	0	Comments:





Hea 02	Sound Insulation	4	3	0	Credit 1: Achieving and going beyond national regulations Outstanding Requirements: 1, 2, 3, 4, 5, 6.
					Comments: Please provide written confirmation of the intent to: 1. Meet the relevant sound insulation performance levels 2. Use a Compliant Test Body to complete testing 3. A copy of the suitably qualified acoustician's design statement including recommendations to meet the relevant sound insulation performance levels and written confirmation that these recommendations have been implemented
					Where a Suitably Qualified Acoustician (SQA) provides recommendations for the specification of all existing separating walls and floors, confirming in their professional opinion that they have the potential to meet or exceed, the sound insulation credit requirements. Where these recommendations are implemented up to four credits may be awarded (3dB> = 3 credits, 5dB > = 4 credits).
					The developer needs to confirm their commitment to providing sound tests at the required frequency and confirming a commitment to achieve airborne sound insulation values at least 3dB higher, and impact sound insulation values that are at least 3dB lower, than the performance standards in Approved Document E, (2003) using a UKAS accredited sound tester.
					Should the desired results not be achieved the developer will need to confirm that they will carry out the relevant remedial works and to re-test to demonstrate the necessary performance standards are achieved.



Hea 03	Volatile Organic Compounds	1	1	0	Lee Atkins	Credit 1: Avoiding the use of VOCs Outstanding Requirements: 1, 2, 3. Comments: Where all decorative paints and varnishes used in the refurbishment have met the requirement for the following items: - Decorative paints and varnish's - Wood Panels - if applicable? - Timber Structures - Wood Flooring - Suspended ceiling tiles - if applicable - Flooring adhesives - if applicable? - Wall Coverings - if applicable Please confirm the EN standard for the above and Emission Level.
Hea 04	Inclusive Design	2	2	0	Mark Baker, Chris Howe	Credit 1: Accessibility Outstanding Requirements: 1, 2. Comments: Two credits — advanced accessibility An access expert or suitably qualified member of the design team has completed sections 1 and 2 of Checklist A8: Access Statement Template with evidence provided of the measures implemented in the refurbishment 1. The access statement demonstrates reasonable provision to provide accessibility to the dwelling covering sections 1 and 2 of Checklist A8: Access Statement Template in accordance with CN3 and CN4.



Hea 05	Ventilation	2	1	0	John Draper	Credit 1: Minimum ventilation requirements & advanced ventilation Outstanding Requirements: 1, 2, 3, 4, 5, 6. Comments: One Credit - please provide written confirmation of the level of background, extract and purge ventilation. Where a minimum level of background ventilation is provided (with trickle ventilators or other means of ventilation) for all habitable rooms, kitchens, utility rooms and bathrooms compliant with section 7, Building Regulations Approved Document Part F, 2010 and a minimum level of extract ventilation is provided in all wet rooms (e.g. kitchen, utility and bathrooms). Two credits - Ventilation is provided for the dwelling that meets the requirements of Section 5 of Building Regulations Part F in full.
Hea 06	Safety	1	1	0	Mark Baker, Chris Howe	Credit 1: Fire and carbon monoxide (CO) detection and alarm systems Outstanding Requirements: 1, 2, 3, 4. Comments: One Credit - fire and carbon monoxide (CO) detection and alarm systems Please confirm Fire detection and alarm system is in accordance with BS8539-6:2004 (40) GRADE A (as building over 3 stories) and positioned in accordance with BS5839-6:2004 (41) part B building regulations. All smoke/heat & Carbon monoxide alarms should be mains operated and conform to BS EN 14604:2005 with a standby power supply (i.e. battery)
Health & \	Wellbeing score	12	8	0		
Energy						
Ene 01	Improvement in Energy Efficiency Rating	6	3	0		Credit 1: Improving the dwellings' Energy Efficiency rating (EER) Outstanding Requirement: 1. Comments: Currently Calculating
Ene 02	Energy Efficiency Rating Post Refurbishment	4	2.5	0		Credit 1: EER post refurbishment Outstanding Requirement: 1. Comments:
Ene 03	Primary Energy Demand	7	0	0		Comments: Currently Calculating





Ene 04	Renewable Technologies	2	1	0	Credit 1: 10 - 20% of Primary Energy Demand supplied by LZC technologies Outstanding Requirements: 1, 2, 3, 4, 5. Comments:
Ene 05	Energy Labelled White Goods	2	1	0	Credit 1: Fridges, freezers & fridge-freezers Outstanding Requirements: 1, 2. Comments: ONE CREDIT - Fridges and freezers or fridges/freezers have an A+ rating or better under the EU Energy Efficiency Labelling Scheme OR Where no white goods are provided to the dwelling(s) but the EU Energy Efficiency Labelling Scheme Information Leaflet is provided to each dwelling Two Credits - washing machines, dishwashers, tumble dryers and washer-dryers Washing machines have an A++ rating, Dishwashers have an A+, washer dryers and tumble dryers have an A or better under the EU Energy Efficiency Labelling Scheme
Ene 06	Drying Space	1	1	0	Credit 1: Internal or external drying space Outstanding Requirement: 1. Comments: ONE CREDIT - The developer needs to confirm their commitment to provide a reduced energy means of drying clothes. They will need be providing a retractable drying line permanently fixed over the bath OR rotary line to the rear garden permanently fixed in concrete (details of the security locks provided if communal). Please also confirm that a minimum drying line length of 6m to the dwellings will be provided and the ventilations system with humidistat controls.





Ene 07	Lighting	2	2	0	John Draper	Credit 1: External lighting Outstanding Requirements: 1, 2. Credit 2: Internal lighting Outstanding Requirement: 3. Comments: One credit - External lighting Where Energy Efficient Space lighting (including lighting in communal areas) and Energy Efficient Security lighting is provided OR Where Energy Efficient Space lighting (including lighting in communal areas) and no Security Lighting is provided. One credit - Internal Lighting One credit is awarded where the energy required for internal lighting is minimised through the provision of a maximum average wattage across the total floor area of the dwelling of 9 Watts/m2
Ene 08	Energy Display Devices	2	2	0		Credit 1: Electricity & primary fuel heating consumption display Outstanding Requirements: 1, 2, 3. Comments: The developer needs to confirm their commitment to provide an energy display device displaying the following information: - Local time - Current mains energy consumption - Current Emissions - Current Tariff - Current Cost - Account balance info - Visual presentation of data - Historical consumption data
Ene 09	Cycle Storage	2	2	2		Comments: Two credits have been awarded where a communal compliant 16 no spaces cycle storage has been provided for the apartments (3 no. three bed apartments and 5 no. two bed apartments). The space is protected from the weather and the cycle racks allow the bikes to be stored free standing and locked. Its also located within 50m of the apartments.





Ene 10	Home Office	1	1	0		Credit 1: Home office Outstanding Requirement: 1.
						Comments: The developer will need to confirm that the services will be provided in the correct location: - two double sockets (positioned to avoid the use of extension leads) - one telephone points - Window (width and height no less than 450mm) - Adequate Ventilation It has been confirmed that each unit can be connected to a broadband or cable service which enable two items to be plugged in simultaneously, a single telephone point has been specified in place of a double telephone point.
Energy sco	ore	29	15.5	2		
Water						
Wat 01	Internal Water Use	3	2	0	Lee Atkins	Credit 1: Internal water use Outstanding Requirements: 1, 2.
						Comments: Please confirm the commitment to reduce the consumption of potable water in the home from all sources, through the use of water efficient fittings, appliances and water recycling systems. Please CONFIRM the water consuming items, an example specification below, applicable to all dwellings:
						 6/4 Ltr litre Dual Flush? Wash hand basin taps, Flow reducing/aerating taps 3ltr/min Shower - 8 ltr/min Bath -250Ltr to overflow?MAX Kitchen Sink - 6ltrs/min
						The internal water will not exceed 107-117 ltrs per person per day.





Wat 02	External Water Use	1	1	0	Lee Atkins	Credit 1: Rainwater collection for external irrigation Outstanding Requirements: 1, 2. Comments: The developer needs to confirm their commitment to encourage the recycling of rainwater and reduce the amount of mains potable water used for external water uses. A minimum of 6 no. 200 litre water butts will be required with a child proof lid with tap to draw off the water and connected to the external rainwater down pipes.
Wat 03	Water Meter	1	1	0	John Draper	Credit 1: Water meter Outstanding Requirement: 1. Comments: One credit where an appropriate water meter for measuring usage of mains potable water has been provided to dwelling or dwellings in accordance with CN1 or CN2.
Water sco	re	5	4	0		
Materials				•	•	
Mat 01	Environmental Impact of Materials	25	20	0		Credit 1: Environmental impact of major building elements Outstanding Requirements: 1, 2, 3, 4, 5, 6. Comments: Please provide plans and construction specification detailing new and existing elemental build ups to enable MAT1 calculator tool to be completed. i.e. window schedule detailing retained windows and new build windows.



Mat 02	Responsible Sourcing of Materials	15	7	0	Credit 1: Sustainable procurement plan Outstanding Requirements: 2, 3. Credit 2: Responsible sourcing of key building elements Outstanding Requirement: 4. Comments: Up to 3 credits - Please provide a sustainable procurement plan Where the principal contractor sources materials for the project in accordance with a documented sustainable procurement plan three credits can be awarded. Please list the potential suppliers of the timber products.
Mat 03	Insulation	8	7	0	Credit 1: Embodied impact Outstanding Requirements: 1, 2. Credit 2: Responsible soucing Outstanding Requirement: 3. Comments: Please confirm the MAKE and MANUFACTURER of insulation and area and volume to confirm the credits for the following elements: - External Wall - Ground Floor - Roof - Services - i.e. pipe insulation, cylinders?
Materials	Materials score 48		34	0	
Waste		•			





Wst 01	Household Waste	2	2	0	Credit 1: Recycling facilities Outstanding Requirement: 1.	
					Credit 2: Composting facilities Outstanding Requirements: 3, 4, 5.	
					Comments: 1 Credit - Please confirm In addition to the external waste bins three internal bins for the purpose of recycling under the kitchen sink will be required to the development supplied to the residents in addition to the normal waste bin. The recycling bins minimum total capacity will need to be 30 litres and no bin is smaller than 10 litres.	be their ed to
					The council do not supply coverd box's/bins, the rubbish storage area w need to be weather proof, please confirm how BH will store recycling ur collection day.	
					1 Credit - Internal compost bin provided by Richmond BC is only 5 liter please confirm an 7 liter internal bin will be provided and information included in the home user guide for the tenants.	





Wst 02	Refurbishment Site Waste Management	3	3	0		Credit 1: Limiting of waste generation Outstanding Requirements: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10. Comments: 3 Credits - The developer NEEDS TO confirm they will prepare a SWMP and are monitoring the waste streams and setting targets on site, The developer have incorporated the SMART waste principals within the SWMP. Site Waste Management Plan has detailed the efficient use of resources during construction and demolition, and to promote the reduction and effective management of site waste. The waste management plan details the resource efficiency targets set for each stage of construction (including demolition), details of how the waste will be measured and monitored. The developer also appointed a manager to implement the plan of site waste management and executes how the plan will be used to help to sort, reuse and recycle construction waste effectively on site. Please PROVIDE the following: 1. A copy of the compliant Site Waste Management Plan/Checklist A-10 containing the appropriate benchmarks, commitments and procedures. AND 1. Where appropriate, a copy of the pre-refurbishment audit. OR 1. Compliant design stage commitment that requires the principal contractor to produce a SWMP/complete Checklist A-9 in line with the criteria and to outline in detail the criteria with respect to resource efficiency and target(s) and procedures to be included in the SWMP.
Waste sco	re	5	5	0		
Pollution						
Pol 01	Nitrogen Oxide Emissions	3	3	0	John Draper	Credit 1: Low NOx space heating and hot water systems Outstanding Requirement: 1. Comments: SAP strategy currently assumes gas boilers, please confirm the make and model of the proposed heating system to enable the NOx emissions to be checked.





Pol 02	Surface Water Runoff	3	3	0	Philip Richards	Credit 1: Surface water runoff Outstanding Requirements: 1, 2, 3, 4, 5, 6, 7, 8, 9. Comments: Please provide Surface water run off calculations including where run-off as a result of the refurbishment is managed onsite using source control achieving the following requirements: 1. The peak rate of run-off as a result of the refurbishment for the 1 in 100 year event has been reduced by 75% from the existing site. 2. The total volume of run-off discharged into the watercourses and sewers as a result of the refurbishment, for a 1 in 100 year event of 6 hour duration has been reduced by 75%. 3. An allowance for climate change must be included for all of the above calculations, in accordance with the current best practice (PPS25, 2010)
Pol 03	Flooding	2	2	2		Comments: The development is located in an area with a "Low" chance of flooding.
Pollution so	core	8	8	2		
Innovatio	n					
Man 02	Responsible Construction Practices	1	1	0		Credit 1: Exemplary credit performance Outstanding Requirements: 5, 6.
						Comments:
Man 05	Protection and Enhancement of Ecological Value	1	1	0		Credit 1: Exemplary credit performance Outstanding Requirement: 4. Comments:
Man 06	Project Management	2	2	0		Credit 1: Early design input Outstanding Requirements: 4, 5. Credit 2: Thermographic surveying & airtightness testing Outstanding Requirements: 6, 7.
						Comments:





Ene 02	Energy Efficiency Rating Post Refurbishment	2	0	0	Comments:
Ene 08	Display Energy Devices	1	0	0	Comments:
Wat 01	Internal Water Use	1	0	0	Comments:
Wst 02	Refurbishment Site Waste Management	1	0	0	Comments:
Pol 02	Surface Water Run-off	1	0	0	Comments:
Al	Approved Innovation	1	0	0	Comments:
Innovation	score	12	4	0	

