

80 GUILFORD STREET COMPARATIVE PRE-ASSESSMENT REPORT ANALYSIS BREEAM 2011 DOMESTIC REFURBISHMENT (SD5072 V:2012 1:1.0.2)

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GWP-PS_FO.1435_BREEAMDR_80GuilfordStreet_DT.R01 DATE: 19.06.2014 BY: DT / BR GWPPS053.02

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GWP PROJECT SERVICES TENDER RESPONSE REPORT

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I.0 ABOUT

Established for 20 years, GWP Project Services have grown into a leading BREEAM Assessment organisation, working on multiple BREEAM awarding winning schemes in the UK and overseas for the last 8 years. We have also established ourselves as industry leading sustainability Consultants – working closely with internationally renowned Architects and Consultants, on highly sustainable, modern buildings that significantly reduce carbon emissions both during construction and operation.

Our international client base include some of the world's most successful organisations and the UK's most established institutions such as Kings College London, Jaguar Land Rover, Bacardi Martini and DHL.

Our knowledge, experience and contribution to BREEAM and wider sustainable construction has been recognised with the award of BREEAM Assessor of the year 2013, but more importantly further established close links we have with BRE, of which we are a major contributor to their assessor network, providing internal consultancy to the BRE Global organisation and input into the development of current and future BREEAM methods.

We offer a proactive approach to the challenges faced with BREEAM assessment and have developed systems and protocols specifically within the BREEAM market to assist in the complex task of assessing and delivering BREEAM assessed buildings. We work very closely with the Design and Construction teams to ensure communication and organisational skills are adopted from the outset and fed down the supply chain so opportunities are maximised where possible, with risk recognised and averted.

2.0 GWP PROJECT SERVICES

GWP Project Services are a practice of specially trained professionals offering services including BREEAM, LEED, Code for Sustainable Homes assessments– expert advice and consultation on sustainability within construction and design sectors, project management, CDM coordinator roles and other key consultancy including energy analysis, planning support and training. A number of staff are also accredited Passivhaus Assessors.

Alongside the principal head office located in Leeds, GWP-PS also operate from regional offices located in London, Manchester and internationally in Europe through our Prague office.

- ISO 9001 & 14001 Registered Firm
- Construction Line
- Association of Project Safety CDM
- Association for Environmentally Conscious Buildings (AECB)
- PassivHaus Trust Members
- BRE BREEAM & CfSH (STROMA) Licensed Assessors



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3.0 TRACK RECORD AND RELEVANT PROJECT EXPERIENCE

GWP Project Services are one of the UK's leading BREEAM Assessment and Sustainable Design organisations.

GWP Project Services have successfully delievered BREEAM, Code for Sustainable Homes and Ecohomes certification for a wide variety of building types and uses, including Distilleries, Student Housing, Industrial and Manufacturing Units, Retail, Healthcare buildings and University Faculty buildings. We are also currently involved in LEED assessment within the UK and hold LEED Green Associate qualifications.

GWP Project Services played a key role in BREEAM Award winning projects in 2008, 2010, 2012 & 2014; as well as the highest ever BREEAM design stage assessed development and the first BREEAM 2011 assessed development to achieve a BREEAM 'Outstanding' rating. A summary of some of our achievements are provided below:

- BREEAM Assessor of the Year 2013 Barry Rankin, Director GWP Project Services
- BREEAM Award Winners 2008, 2010, 2012 & 2014
- Assessors of the first BREEAM 2011 'Outstanding' buildings
- Assessors of the first BREEAM 2008 'Outstanding' Industrial building
- Assessors of 'The Green', awarded 94.11% 'Outstanding' (previously the highest design stage rated BREEAM building)

We believe our approach to BREEAM Assessment is unique, we offer strategic consultancy on meeting BREEAM compliance from a knowledgable and experienced design & construction background. We are pro-active in terms of considering BREEAM compliant design responses, often undertaking our own research and development to assist in the challenges of meeting compliance - particulalry essential when aspiring for BREEAM 'Excellent' and 'Outstanding' ratings. We dont see our role as removed from the design team, rather an important member of the design team able to communicate ideas, technical guidance and pragmatic approaches to BREEAM compliance design solutions.

4.0 GWP PROJECT SERVICES COMPANY STRUCTURE



GWP PROJECT SERVICES TENDER RESPONSE REPORT

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BREEAM Registration Ref:TBA Registered BREEAM Assessor: B. Rankin BREEAM Bespoke: No

PASS 30% GOOD 45% VERY GOOD 55% EXCELLENT 70% OUTSTANDING 85%

5.0 BUILDING PERFORMANCE BY SECTION

Credit Section	Credits Available	XCO Targeted Credits	GWP-PS Targeted Credits	Weighted Credits Available	Weighed Credits (XCO)	Weighted Credits (GWP)
Management	11	10.00	10.00	12.%	10.91	10.91
Health & Wellbeing	12	4.00	4.00	17.%	5.67	5.67
Energy	29	22.50	12.00	43.%	33.36	17.79
Water	5	4.5	4.5	11.%	9.9%	9.9%
Materials	45	33	33	8.%	5.87%	5.87%
Waste	5	5	5	3.%	3.%	3.%
Pollution	8	5	5	6.%	3.75%	3.75%
Innovation	10	0	0	10.%	.%	.%
				XCO Credit Score	72.45%	Excellent'

GWP-PS Potential Credit Score

Excellent' 56.89% Very Good'

6.0 ASSESSED BUILDING PERFORMANCE BY SECTION (COMPARATIVE)



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APPENDIX A - DETAILED CREDIT REPORT

BREEAM 2011 DOMESTIC REFURBISHMENT (SD5072 V:2012 1:1.0.2)

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XCO Rating	72.45%			G					
GWP-PS Rating	56.89%				BRI	EAM Domestic Re	furbishmer	nt - Pre-Asses	sment Tracker
Credit Name	Available Credits	XCO Potential	GWP-PS Potential	ltem	Compliance Notes	Credit Responsibility	At Risk?	XCO Targeted	GWP-PS Targeted
MANAGEMENT	Ш	10	10	Weighting 0.120				10.91	10.91
MANI	3	3	3	Home User Guide To recognise and encourage the provision of guidance for effectively	or the home owner / tenant so they can understand how to operate the	eir home efficiently and		Com	ments
	3	3	3	Provision of a home users guide	Where a HUG containing the information listed in the 'User Guide Contents List' has been produced and supplied to all homes.	Contractor			
MAN2	2	2	2	Responsible Construction Practices To recognize and encourage constructi manner.	ion sites which are managed in an environmentally and socially consider	ate, responsible and acc	countable		
	2	2	2	Where the principal contractor uses the Considerate Constructors Scheme (CCS) or Checklist A-3	Credits are awarded depending on the CCS Code of Considerate Practice score achieved / Compliance with Checklist A-3	Contractor			
MAN3	I	I	I	Construction Site Impacts To recognize and encourage construction sites r pollution.	managed in an environmentally sound manner in terms of resource use,	energy consumption ar	ıd		
	I	I	1	Where there is evidence to demonstrate that 2 or more of the sections a- d/e in Checklist A-6 are completed.		Contractor			
MAN4	2	2	2	Security To encourage domestic refurbishment projects where people feel life or community cohesion.	safe and secure; where crime and disorder, or the fear of crime, does no	ot undermine quality of			
	I	I	I	One Credit – secure windows and doors	Where retained external doors and accessible windows comply with the minimum security requirements as set out in CN6	Architect			
	I	I	I	Two Credits – Secured by design	Where the principles and guidance of Secured by Design Section 2 – Physical Security are com- plied with.				
MAN5	I	I	I	Protection and Enhancement of Ecological Features To protect existing eco	ological features from substantial damage during refurbishment and enha	nce the ecological value	e of a site.		
	I	I	1	Where a site survey is carried out by a member of the project team or a Suitably Qualified Ecologist to determine ecological features.		Contractor			
MAN6	2	I	I	Project Management To ensure delivery of a functional and sustainable refu	rbishment, designed and built in accordance with performance expectat	ions.			
	I	I	1	Where all of the project team are involved in the project decision making					
	I	0	0	Where a handover meeting is arranged					
HEALTH & WELLBEING	12	4	4	Weighting 0.150				5.67	5.67
HEAI	2	0	0	Daylighting To improve the quality of life in homes through the provision of	f good daylighting and to reduce the need for energy to light the home.			Com	ments
	I	0	0	First credit—maintaining good daylighting					
	I	0	0	Second credit—minimum daylighting					
HEA2	4	2	2	Sound Insulation To ensure the provision of acceptable sound insulation sta	ndards and so minimise the likelihood of noise complaints.	1			
	I	I	I	No worse than the values determined pre-refurbishment		Acoustician			
	I	I	I	3dB higher than before refurbishment		Acoustician			
	I	0	0	5dB higher than before refurbishment					
	I	0	0	8dB higher than before refurbishment					

XCO Rating	72.45%								
GWP-PS Rating	56.89%			BF	EEAM Domestic Ref	urbishme	nt - Pre-Asses	sment Tracker	
Credit Name	Available Credits	XCO Potential	GWP-PS Potential	Item Compliance Notes	Credit Responsibility	At Risk?	XCO Targeted	GWP-PS Targeted	
HEA3	I	0	0	Volatile Organic Compounds To recognise and encourage a healthy internal environment through the specification of internal finishes and fittings organic compounds (VOCs).	with low emissions of vo	latile			
	I	0	0	Where all decorative paints and varnishes used in the refurbishment have met the requirement inTable - 14.					
HEA4	2	0	0	Inclusive Design Adopting an inclusive design approach to optimise the accessibility of the home and its future adaptability to cope with changing age, frailty, a short or long-term disability or a debilitating illness.	needs of a household, su	ch as old			
	I	0	0	An access expert or suitably qualified member of the design team (CN6) has completed section 1 of Appendix A: Hea 04 accessibility to the dwelling covering section 1	Architect				
	I	0	0	An access expert or suitably qualified member of the design team (CN6) has completed sections I and 2 of Appendix A: Hea 04 The access statement demonstrates reasonable provision to provide accessibility to the dwelling covering sections I and 2	Architect				
HEA5	2	I	I	Ventilation To recognise and encourage a healthy internal environment through the provision of appropriate ventilation levels to provide fresh air with the build up of pollutants and humidity levels without excessive heat loss.	and avoid problems asso	ciated			
	I	I	I	One credit—minimum ventilation requirements A minimum level of background ventilation is provided	M+E				
	Ι	0	0	Two credits—advanced ventilation Ventilation is provided for the dwelling that meets the requirements of Section 5 of Building Reg- ulations Part F in full					
HEA6	I	1	I	Safety To reduce the risks to life, health and property resulting from fire and exposure to carbon monoxide.		-			
	I	I	L	One Credit—fire and carbon monoxide (CO) detection and alarm systems Where a compliant fire detection and fire alarm system is provided in accordance with compliance notes 2-8.	M+E				
ENERGY	29	22.5	12	Weighting 0.190			33.36	17.79	
ENEI	6	4	2	Improvement in Energy Efficiency Rating To recognise and encourage a reduction in CO2 emissions through improved energy efficiency of the dw of refurbishment.	elling and its services as	a result	Com	ments	
	6	4	2	Where the refurbishment results in an improvement to the dwellings Energy Efficiency Rating, in accordance with CN2.	M+E				
ENE2	4	3.5	I.	Energy Efficiency Rating Post Refurbishment To encourage high levels of Energy Efficiency in the refurbished dwellings, thus reducing CO2 emission	ns, running costs and fue	l poverty.			
	4	3.5	I.	Where as a result of refurbishment, the dwelling meets a minimum Energy Efficiency Rating, credits can be awarded	M+E				
ENE3	7	7	I	Primary Energy Demand To encourage a reduction in the absolute total regulated energy demand of a dwelling as a result of refurbishment, thus s costs and reducing fuel poverty.	saving CO2 emissions, ru	nning			
	7	7	I	Where as a result of refurbishment the dwelling meets the Primary Energy Demand targets	M+E				
ENE4	2	0	0	Renewable Technologies To encourage local energy generation from renewable sources to supply a significant proportion of the dwellings energy to reduce the total energy demand, prior to the specification of renewable technologies.	demand and to encourag	e homes			
	I	0	0	Where at least 10% of the dwellings Primary Energy Demand per annum is supplied by low or zero carbon technologies	M+E				
	I	0	0	Where for mid to high rise flats at least 15% of each dwellings Primary Energy Demand per annum is supplied	M+E				
ENE5	2	2	2	Energy Labelled White Goods To encourage the provision or purchase of energy efficient white goods, thus reducing the CO2 emissions from application of the contract of the co	bliance use in the dwellin	g.			
	1	1	ſ	First credit – Fridges, freezers and fridge-freezers + EU Leaflets	Contractor				
	I	I	I	Second credit – washing machines, dishwashers, tumble dryers and washer dryers - EU Leaflets	Contractor				
ENE6	I	I	1	Drying Space To provide a reduced energy means of drying clothes and so encourage reductions in energy demands.					

XCO	Rating	72.45%
GWP-PS	Rating	56.89%

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BREEAM Domestic Refurbishment - Pre-Assessment Tracker

Credit Name	Available Credits	XCO Potential	GWP-PS Potential	ltem	Compliance Notes	Credit Responsibility	At Risk?	XCO Targeted	GWP-PS Targeted
	I	I	I	An adequate, secure internal or external space with posts and footings, or fixings		Architect			
ENE7	2	2	2	Lighting To encourage the provision of energy efficient lighting, thus reducir	ng CO2 emissions associated with the dwelling.				
	I	I	I	One credit – External lighting	Where Energy Efficient Space lighting (including lighting in communal areas) and Energy Efficient Security lighting is provided	M+E			
	I	I	I	One credit - Internal Lighting	The energy required for internal lighting is minimised through the provision of a maximum average wattage	M+E			
ENE8	2	2	2	Energy Display Devices To encourage the provision of accessible equipment use.	t to display energy consumption data to dwelling occupants, thereby enc	ouraging them to redu	ce energy		
	I	I	I	Where current electricity consumption data is displayed to occupants by a compliant energy display devices		M+E			
	I	I	I	AND primary heating fuel consumption data are displayed to occu- pants by a compliant correctly specified Energy Display Devices.		M+E			
ENE9	2	I	I.	Cycle Storage To encourage occupants to cycle by providing adequate and	secure cycle storage facilities, thus reducing the need for short car journ	ieys.			
	I	I	I	Where individual or communal compliant cycle storage is provided for the following number of cycles:		Architect			
	I	0	0	Where individual or communal compliant cycle storage is provided for the following number of cycles:					
ENE10	I	0	0	Home Office To reduce the need to commute to work by ensuring residen	its have the necessary space and services to be able to work from home				
	I	0	0	Where sufficient space and services have been provided which allow the occupants to set up a home office		Architect			
WATER	5	4.5	4.5	Weighting 0.060				9.90	9.90
WATI	3	2.5	2.5	Internal Water Use To minimise the consumption of potable water in sanita	ary applications by encouraging the use of low water use fittings and wat	er recycling systems.		Com	ments
	3	2.5	2.5	Where terminal fittings meet the equivalent terminal fitting consumption standards as detailed inTable-20 or are calculated		M+E			
WAT2	I	I	I.	External Water Use To encourage the recycling of rainwater and reduce the	e amount of mains potable water used for external water uses.				
	I	I	I	Where a compliant rainwater collection system for external/internal irrigation use has been pro vided to dwellings		Architect			
WAT3	I	I	I.	Water meter Where an appropriate water meter for measuring usage of m	nains potable water has been provided to dwelling/s in accordance with (CNI			
	I	I	I	Where an appropriate water meter for measuring usage of mains potable water has been provided		M+E			
MATERIALS	45	33	33	Weighting 0.125				5.87	5.87
MATI	25	18	18	Environmental Impact of Materials To encourage the retention and enhance environmental impacts over their lifecycle whilst optimising the thermal pe	ement of existing elements and where new materials are required the us rformance of key building elements.	e of materials with low	/er	Com	ments
	25	18	18	The BREEAM Domestic Refurbishment Mat I calculator is used to determine the number of credits awarded.		Architect			
MAT2	12	7	7	Responsible Sourcing of Materials To recognise and encourage the reuse of refurbishment process.	materials and the specification of responsibly sourced materials for use	where required in the			
	12	7	7	Where the applicable new materials for refurbished building elements are assigned a responsible sourcing tier level		Contractor			

XCO Rating GWP-PS Rating	XCO Rating 72.45% GWP-PS Rating 56.89%			BREEAM Domestic Refurbishment -					
Credit Name	Available Credits	XCO Potential	GWP-PS Potential	ltem	Compliance Notes	Credit Responsibility	At Risk?	XCO Targeted	GWP-PS Targeted
MAT3	8	8	8	Insulation To recognise and encourage the use of thermal insulation which sourced.	has a low embodied environmental impact relative to its thermal proper	rties and has been resp	onsibly		
	Pre-re	equisite	Y	Any new insulation specified for use within the following building elements must be assessed:		Architect			
	4	8	8	Embodied Impact	Where Green Guide ratings, required by the BREEAM Domestic Refurbishment Mat3 Insulation Calculator	Architect			
	4	0	0	Responsible Sourcing	Where \geq 80% of the new thermal insulation used in the building elements is responsibly sourced.				
POLLUTION	8	5	5	Weighting 0.100				3.75	3.75
POLI	3	3	3	Nitrogen Oxide Emissions To reduce the emission of nitrogen oxides (NO	litrogen Oxide Emissions To reduce the emission of nitrogen oxides (NOx) into the atmosphere.				ments
	3	3	3	Up to 3 credits – Low NOx space heating and hot water systems		M+E			
POL2	3	0	0	Surface Water Runoff To encourage domestic refurbishments to have a neu and delay the discharge of rainfall to the public sewers and watercourses.	ıtral impact upon site run-off and recognise refurbishments that adopt o	pportunity measures to	o reduce		
	I	0	0	First credit – neutral impact on surface water	Where any new hard standing areas are permeable,this must include all new pavements, driveways	Civils			
	1	0	0	Second credit – reducing run-off from site: basic	Where all run-off from the roof for rainfall depths up to 5 mm, have been managed on site using source control methods				
	I	0	0	Third Credit – reducing run-off from site: advanced	An appropriately qualified professional should be used to design an appropriate drainage strategy for the site.				
POL3	2	2	2	Flooding To reward dwellings located in low flood risk areas and where dw accordance with a flood resilience/resistance strategy.	rellings are located in medium to high flood risk zones, to recognise whe	re they are refurbished	l in		
	I	I	I	Option I – Low flood risk (2 credits)	Where a Flood Risk Assessment has been carried out the assessed dwellings are defined as having a low annual probability of flooding.	Civils			
	I	I	I	Option 2 – Medium/High Flood Risk (1 credit)	Where a FRA has been carried out and the assessed dwellings are defined as having a medium or high annual probability of flooding.	Civils			
WASTE	5	5	5	Weighting 0.075				3.00	3.00
WSTI	2	2	2	Household Waste To recognise and encourage the provision of dedicated s landfill or incineration.	torage facilities for a dwellings recyclable or compostable waste streams	s, so that waste is diver	ted from	Com	ments
	I	I	I	First credit – Recycling facilities	One credit can be awarded where the dwelling complies with one of the scenarios detailed in Table-31 below:	Architect			
	I	I	I	Second credit – Composting Facilities	Dwellings with significant external private space - all of the following are met:				
WST2	3	3	3	Refurbishment Site Waste Management To promote resource efficiency via	the effective management and reduction of waste related to the refurbis	shment process.			
	3	3	3	Projects up to £300k: three credits are awarded:	Where a compliant Level 1; Site Waste Management Plan See Criteria (SWMP) is in place in accordance with CN3.	Contractor			
INNOVATION	10	0	0	1/1% Weighting (Maximum 10)				0.00	0.00
INNI	2	0	0	Ene 2 Energy Efficiency Rating				Com	ments
		0	0	Ene 8 Display Energy Devices					

XCO Rating	72.45%							GWP Pro	ject Services
GWP-PS Rating 56.89%			BREEAM Domestic Refurbishment - Pre-Asses						
Credit Name	Available Credits	XCO Potential	GWP-PS Potential	ltem	Compliance Notes	Credit Responsibility	At Risk?	XCO Targeted	GWP-PS Targeted
	I	0	0	Wat 1 Internal Water Use					
	I		0	Was 2 Refurbishment Site Waste Management					
	I		0	Pol 2 Surface Water Run-off					
	I		0	Man 2 Responsible Construction Practices					
	I		0	Man 5 Protection and Enhancement of Ecological Value					
	I		0	Man 6 Project Management					
	I		0	Hea 4 Inclusive Design					



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