# BREEAM®

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# bre

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## **Assessment details**

Assessment references								
Registration number:	BREEAM-19-5217	Date created:	17/3/2019					
Created by:	Umer Uzair							
Architect name:	Proun Architects							
Developer name:	Criterion							
Property owner								

# Site details Site name: Great Russel Street Address: 112a Great Russel Street, Bloomsbury Town: London County: Camden Post code: WC1 B3NP Country: United Kingdom

#### **Certificate details**

The certificate will have the name of the architect (if entered above) and the name of the developer (from above).

Any other names to appear on the certificate are listed below:

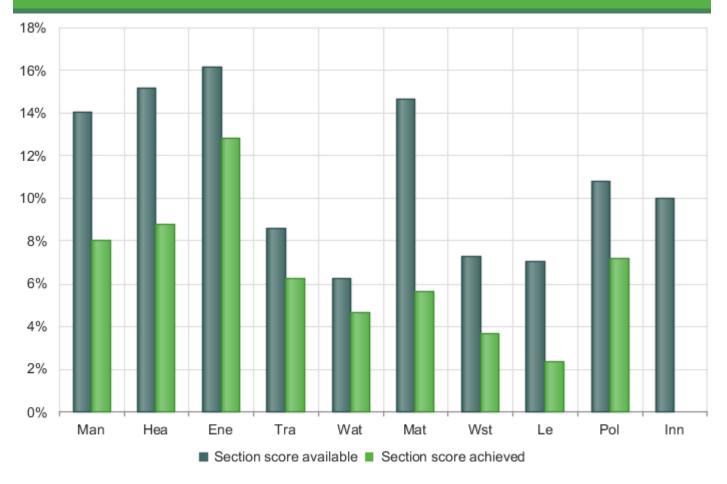
Name

Label

# **BREEAM** rating

BREEA	BREEAM Rating									
	Credits available	Credits achieved	% Credits achieved	Weighting	Category score					
Man	21.0	12.0	57.14%	14.05%	8.02%					
Hea	19.0	11.0	57.89%	15.17%	8.78%					
Ene	24.0	19.0	79.17%	16.18%	12.80%					
Tra	11.0	8.0	72.73%	8.59%	6.24%					
Wat	8.0	6.0	75.00%	6.24%	4.68%					
Mat	13.0	5.0	38.46%	14.63%	5.62%					
Wst	10.0	5.0	50.00%	7.32%	3.65%					
Le	3.0	1.0	33.33%	7.02%	2.34%					
Pol	12.0	8.0	66.67%	10.81%	7.20%					
Inn	10.0	0.0	0.00%	10.00%	0.00%					
Total	131.0	75.0	57.25%	-	59.37%					
Rating	-	-	-	-	Very Good					

#### Performance by environmental category



#### **Issue scores**

Please Note: X means the exemplary credit for the relevant issue

Management							
Man 01	Man 02	Man 03	Man 03X	Man 04	Man 05	Man 05X	
1	0	4	0	4	3	0	

Health and Wellbeing									
Hea 01	Hea 01X	Hea 02	Hea 02X	Hea 03	Hea 04	Hea 05	Hea 06		
1	0	4	0	N/A	2	3	1		

Energy									
Ene 01	Ene 01X	Ene 02	Ene 03	Ene 04	Ene 05	Ene 06	Ene 07	Ene 08	Ene 09
15	0	1	0	0	N/A	3	N/A	N/A	N/A

Transport	Transport										
Tra 01	Tra 02	Tra 03	Tra 04	Tra 05							
2	1	2	2	1							

Water				
Wat 01	Wat 01X	Wat 02	Wat 03	Wat 04
3	0	1	2	N/A

Materials						
Mat 01	Mat 01X	Mat 03	Mat 03X	Mat 04	Mat 05	Mat 06
3	0	0	0	1	1	0

Waste							
Wst 01	Wst 01X	Wst 02	Wst 03	Wst 04	Wst 05	Wst 05X	Wst 06
4	0	N/A	1	N/A	0	0	0

Land use and ecology								
Le 2		Le 4		Le 5				
	N/A		1		0			

Pollution

Pol 01	Pol 02	Pol 03	Pol 03X	Pol 04	Pol 05
3	0	4	0	1	N/A
Innovation					
Inn 01			Inn 01X		
	N/A			0	

# Initial details

#### Stage 1 filtering: Scope of the assessment

Part 1 : Fabric and structure : Yes

Part 2 : Core services : Yes

Part 3 : Local services : Yes

Part 4 : Interior design : Yes

#### Stage 2 filtering: Project specific filtering

Is the project a change of use? (e.g. change from office to a hotel) : Yes

Are transportation systems specified or present within the refurbishment or fit-out zone? (lifts, escalators, moving walks) : Yes, newly specified transportation systems

Are there laboratories present and if so what % of total building area do they represent : No laboratories present

Project Type : Major, whole building refurbishment

Laboratory containment area : No laboratories present

Is cold storage specified or present within the refurbishment or fit-out zone? : No

Are there new or existing landscaping areas within the refurbishment or fit-out zone and within developer control? : No

Are there any external areas within the refurbishment or fit-out zone and within developer control that can feasibly be enhanced in line with LE 04 : Yes

If the asset undergoing refurbishment or fit-out is part of a larger building, are the building services plant centralised or localised? :

If the asset undergoing refurbishment or fit-out is part of a larger building, is the cooling generation plant centralised or localised? : Local

If the asset undergoing refurbishment or fit-out is part of a larger building, is the heating generation plant centralised or localised? : Local

Is Wat01 within the scope of the assessment in accordance with Table 42? : Yes

What is the building type? : Other building transport type 2

Is this a speculative refurbishment? : No

If Industrial, does the building have office areas? : N/A

Does the building have or mitigate any unregulated water demand? e.g. irrigation or soft-landscaped areas requiring no irrigation, car washing, other significant process related : No

Does the building have unregulated energy demands from significantly contributing systems? : No

Is the project a simple building? : No

Does the building have external lighting within the scope of works? : Yes

Does the building have any existing or newly specified externally mounted plant? : No

If undertaking a Part 4 assessment, is there any equipment specified that requires commissioning (see Man04 CN13) : Yes

Historic building (listed building or building in a conservation area) : No

Is any new insulation specified? : Yes

Are high grade aggregates to be used in the refurbishment scheme? : No

#### **Category assessment**

#### Management | Man

# Man Management

#### Health and Wellbeing | Hea

# Hea Health & Wellbeing

HEA 01 VISUAL COMFORT	
Glare control :	0
Daylighting :	0
Exemplary level criteria :	No
View out :	0
Internal and external lighting :	1
HEA 02 INDOOR AIR QUALITY	
Indoor air quality plan :	1
Ventilation :	1
Volatile organic compounds :	2
Exemplary level criteria :	0
Potential for natural ventilation :	0
HEA 03 SAFE CONTAINMENT IN LABORATORIES - NA	
HEA 04 THERMAL COMFORT	
Thermal modelling :	1
Adaptation - for a projected climate change scenario :	0
Thermal zoning and controls :	1
HEA 05 ACOUSTIC PERFORMANCE	
Acoustic performance :	3
HEA 06 SAFETY AND SECURITY	
Security of site and building :	1
Credits awarded : 11.0	

# Energy | Ene

# Ene Energy

ENE 01 ASSESSMENT OPTION	
Which option is being followed :	Option 1: Whole building energy model
ENE 01 - OPTION 1	
Country :	England
Credits :	15.0
Actual (existing) building energy demand (DemEx) :	268.8 kWh/m2
Reference building energy demand (DemRef) :	131.69 kWh/m2
Actual (proposed) building energy demand (DemProp) :	140.3 kWh/m2
Actual (existing) building primary energy consumption (PEEx) :	496.9 kWh/m2
Reference building primary energy consumption (PERef) :	496.79 kWh/m2
Actual (proposed) building primary energy consumption (PEProp) :	135.77 kWh/m2
Actual (existing) building CO2 emissions (BEREx) :	97.28 KgCO2/m2
Reference building CO2 emissions (SER) :	74.25 KgCO2/m2
Actual (proposed) building CO2 emissions (BERProp) :	32.51 kgCO2/m2
Building energy demand individual parameter EPR (Energy performance Ratio) :	0.89
Primary energy consumption individual parameter EPR (Energy performance Ratio) :	1.0
Building CO2 emissions individual parameter EPR (Energy performance Ratio) :	0.93
EPRNDR (Energy Performance Ratio Non Domestic Refurbishment) :	0.94
Additional assessment criteria :	
Zero regulated carbon :	No
Equivalent % of the building's 'regulated' energy consumption generated by carbon neutral sources and used to meet energy demand from 'unregulated' building systems or processes? : Is the building designed to be carbon negative? :	No
If the building is defined as 'carbon negative' what is the total (modelled) renewable/carbon neutral energy generated and exported? : Exemplary credits scored :	0
ENE 02 ENERGY MONITORING	
Sub-metering of major energy consuming systems :	1
Sub-metering of high energy load and tenancy areas :	0
ENE 03 EXTERNAL LIGHTING	
External lighting :	0
ENE 04 LOW CARBON DESIGN	
Passive design analysis :	0

Free cooling :	0	
Low and zero carbon technologies :	0	
ENE 05 ENERGY EFFICIENT COLD STORAGE - NA		
ENE 06 ENERGY EFFICIENT TRANSPORTATION SYSTEMS		
Energy consumption :	1	
Energy efficient measures :	2	
Energy efficient measures : ENE 07 ENERGY EFFICIENT LABORATORY SYSTEMS - NOTAPPLICABLE	2	
-	2	
ENE 07 ENERGY EFFICIENT LABORATORY SYSTEMS - NOTAPPLICABLE	2	

# Transport | Tra

# Tra Transport

TRA 01 SUSTAINABLE TRANSPORT SOLUTIONS	
Sustainable transport options :	2
TRA 02 PROXIMITY TO AMENITIES	
Proximity to amenities :	1
TRA 03 CYCLIST FACILITIES	
Cycle storage :	1
Cylist facilities :	1
TRA 04 MAXIMUM CAR PARKING CAPACITY	
Car parking capacity :	2
TRA 05 TRAVEL PLAN	
Travel plan :	1
Credits awarded : 8.0	

# Water | Wat

## Wat Water

WAT 01 WATER CONSUMPTION	
Water consumption :	3
Exemplary level criteria :	No
WAT 02 WATER MONITORING	
Water monitoring :	1
Has criterion 1 been met? :	Yes
WAT 03 LEAK DETECTION	
Leak detection system :	1
Flow control devices :	1
WAT 04 WATER EFFICIENT EQUIPMENT - NA	
Credits awarded : 6.0	

# Materials | Mat

### **Mat Materials**

MAT 01 ENVIRONMENTAL IMPACT OF MATERIALS	
Options :	Option 2
Environmental impact of materials :	3
Exemplary level criteria :	
MAT 03 RESPONSIBLE SOURCING OF MATERIALS	
Sustainable procurement plan :	0
Has criterion 1 been met? :	Yes
Responsible sourcing of materials :	0
Exemplary level criteria :	
MAT 04 INSULATION	
Insulation :	1
MAT 05 DESIGNING FOR DURABILITY AND RESILIENCE	
Designing for durability and resilience :	1
MAT 06 MATERIAL EFFICIENCY	
Material efficiency :	0
Credits awarded : 5.0	

# Waste | Wst

# Wst Waste

WST 01 CONSTRUCTION WASTE MANAGEMENT	
Pre-refurbishment audit :	0
Re-use and direct recycling of materials :	0
Resource efficiency :	3
Diversion of waste from landfill :	1
Exemplary level criteria :	
WST 02 RECYCLED AGGREGATES - NA	
WST 03 OPERATIONAL WASTE	
Operational waste :	1
WST 04 SPECULATIVE FINISHES	
WST 05 ADAPTATION TO CLIMATE CHANGE	
Adaptation to climate change - structural and fabric resilience :	0
Exemplary criteria: Responding to adaptation to climate change :	
WST 06 FUNCTIONAL ADAPTABILITY	
Functional adaptabiliy :	0
Credits awarded : 5.0	

Land use and ecology | Le

# Le Land use and ecology

LE 02 PROTECTION OF ECOLOGICAL FEATURES - NA	
LE 04 ECOLOGICAL ENHANCEMENT	
Ecological enhancement :	1
LE 05 LONG TERM IMPACT ON BIODIVERSITY	
Long term impact on biodiversity :	0
Credits awarded : 1.0	

# Pollution | Pol

## **Pol Pollution**

POL 01 IMPACT OF REFRIGERANTS	
Impact of refrigerants :	2
Leak detection :	1
POL 02 NOX EMISSIONS	
NOx emissions :	0
POL 03 FLOOD RISK AND REDUCING SURFACE WATER RUN-OFF	
Flood risk management :	2
Exemplary level criteria :	No
Surface water run-off :	1
Minimising watercourse pollution :	1
Minimising watercourse pollution : POL 04 REDUCTION OF NIGHT TIME LIGHT POLLUTION	1
	1 1
POL 04 REDUCTION OF NIGHT TIME LIGHT POLLUTION	•

#### Innovation | Inn

# Inn Innovation

Site : 112a

**INN 01 APPROVED INNOVATIONS** 

Approved innovations :

Credits awarded : 0.0

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