

BREEAM Bespoke 2011 New Construction Assessment Report: Building and Project Details

General information	BESPOKE
BRE Assessment reference no	BREEAM-0048-6498
Client name	WTI
Building end user/occupie	
Assessor name	Martyn Macefield
Assessor organisation	SLR Consulting
Building details	

Building name	Deeside Energy from Waste Facility
Building address	Deeside Industrual Estate
County	Flintshire
Post code Post code	
Country	Wales
Building type (main description)	Other
Building floor area (GIA) m ²	5500
Building floor area (NIFA) m ²	5000
BREEAM scheme	New Construction
BREEAM version	2011 (SD5073)
BREEAM 2011 technical manual issue number	SD5073 Issue 3.2
Project type	New Construction (fully fitted)
Assessment stage	Design (interim)
Location type	
Climatic zone	Temperate
Building services - heating system type	Wet system
Building services - cooling system type	Air-conditioning
Building services - domestic hot water system type	
Building service - controls	
If applicable, does this industrial building have a heated or cooled operational area?	Option not applicable to building type
Commercial/industrial refrigeration and storage systems	No
Internal or external planting and/or soft landscaping	Yes
Building user transportation systems (lifts and/or escalators)	Yes
Laboratory function/area and size category	No laboratory
Laboratory containment level	No laboratory
Fume cupboard(s) and/or other containment devices	No
Vehicle Wash System	No
If applicable, will this healthcare building house inpatients?	Option not applicable to building type
If applicable, does this industrial building have an office area?	Option not applicable to building type
If applicable, does this building contain areas requiring SAP assessment?	Option not applicable to building type
If SAP used, what proportion of the building's total floor area (GIA) does it apply to?	Option not applicable to building type

Project team details

Developer	
Principal contractor	
Architect	
Project management	
Building services	
BREEAM Accredited Professional	
Other project team member 1	
Other project team member 2	
Other project team member 3	
Other project team member 4	

BREEAM assessor declaration of assessment accuracy and quality

I, Martyn Macefield, a qualified BREEAM assessor working on behalf of SLR Consulting confirm that the content of this report is to the best of my knowledge a true and accurate reflection of the performance of the above named building, as measured against the assessment criteria and reporting requirements of the BREEAM Scheme Document (SD5073). Furthermore, I confirm that this assessment and the information on which it is based has been checked and verified in accordance with BRE Global Ltd's UKAS accredited BREEAM operating procedures for BREEAM assessments and assessors, as described in the technical scheme document (SD5073) and associated BREEAM operational documents.

BREEAM Assessor Signati	ıre
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Date

Disclaimer

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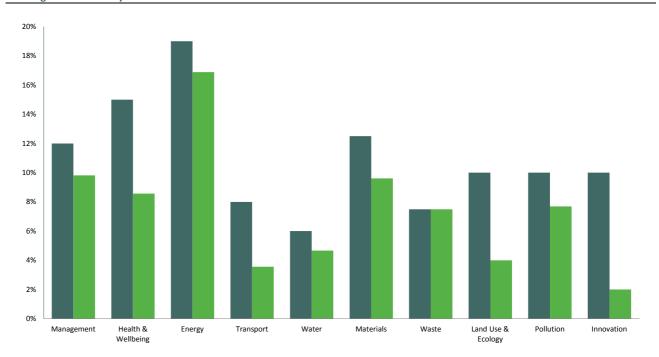
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BREEAM Bespoke 2011 New Construction Assessment Report: Rating & Key Performance Indicators

Overall Building Performance

Building name	Deeside Energy from Waste Facility
BREEAM rating	Excellent
Total Score	74.31%
Min. standards level achieved	Outstanding level

Building Performance by Environment Section



■ Section score available ■ Section score achieved

	No. credits	No. credits	% credits	Section	
Environmental Section	available	Achieved	achieved	Weighting	Section Score
Management	22	18	81.82%	12.0%	9.82%
Health & Wellbeing	14	8	57.14%	15.0%	8.57%
Energy	27	24	88.89%	19.0%	16.89%
Transport	9	4	44.44%	8.0%	3.56%
Water	9	7	77.78%	6.0%	4.67%
Materials	13	10	76.92%	12.5%	9.62%
Waste	6	6	100.00%	7.5%	7.50%
Land Use & Ecology	10	4	40.00%	10.0%	4.00%
Pollution	13	10	76.92%	10.0%	7.69%
Innovation	10	2	20.00%	10.0%	2.00%



Building Performance by Key Environmental Performance Indicator

Building operation Use Modelled 84.06 kWh/m²/yr 462330 kWh/yr	Energy (consumption/production)	Life cycle stage	Measurement	Intensity	Units	Total	Units
Construction process INA	Building operation ^[1]	Use	Modelled	84.06	kWh/m²/yr	462330	kWh/yr
Transport** INA	Energy production ^[2]	Use	Modelled	INA	kWh/m²/yr	INA	kWh/yr
Building operation Use Modelled 2.30 kgCO ₂ eq/m²/yr 12,550 kgCO ₂ eq/yr Embodied Cradle-to-grave Measured INA kgCO ₂ eq/m² INA kgCO ₂ eq/yr INA KgCO ₂ eq Emissions to outdoor air, soil and water Nitrogen Oxides (NO ₃) ²⁷ Use Measured 0.00 mg/kWh INA kg/yr Use of freshwater resource Building operation INA Demolition waste diverted from landfill -	Construction process ^[3]	INA	INA	INA	INA	INA	INA
Building operation Use Modelled 2.30 kgCO2eq/m²/yr 12.650 kgCO2eq/yr	Transport ^[4]	INA	INA	INA	INA	INA	INA
Embodied S Cradle-to-grave Measured INA kgCO_geq/m² INA kgCO_geq	Greenhouse Gas Emissions						
Proportion of applicable main building elements that data reported covers INA Construction process ⁵¹ INA	Building operation ^[1]	Use	Modelled	2.30	kgCO ₂ eq/m ² /yr	12,650	kgCO₂eq/yr
Proportion of applicable main building elements that data reported covers INA Construction process ⁵¹ INA	Embodied ^[5]	Cradle-to-grave	Measured	INA	kgCO ₂ eq/m ²	INA	kgCO₂eq
Transport INA		Pro	oportion of applica	able main building	g elements that data	reported covers	INA
Direct GHG emissions - Refrigerants Use Modelled INA KgCO2eq/kWccoth INA KgCO2eq Emissions to outdoor air, soil and water Nitrogen Oxides (NO2) Use Measured 0.00 mg/kWh INA kg/yr Use of freshwater resource Building operation 18	Construction process ^[3]	INA	INA	INA	INA	INA	INA
Emissions to outdoor air, soil and water Nitrogen Oxides (NO ₂) ^[2] Use Measured 0.00 mg/kWh INA kg/yr Use of freshwater resource Building operation ^[5] Use Modelled INA m3/person/yr INA m3/yr Construction process ^[6] INA INA INA INA INA INA INA INA Construction waste and recovery Construction waste diverted from landfill ^[10] Construction Demolition waste diverted from landfill ^[10]	Transport ^[4]	INA	INA	INA	INA	INA	INA
Use Measured 0.00 mg/kWh INA kg/yr	Direct GHG emissions - Refrigerants ^[6]	Use	Modelled	INA	${\rm KgCO_2eq/kW_{coolth}}$	INA	KgCO ₂ eq
Use of freshwater resource Building operation [8] Use Modelled INA m3/person/yr INA m3/yr Construction process [9] INA INA INA INA INA INA INA INA INA Construction waste and recovery Construction waste diverted from landfill [10] Construction Target 95.00% % 16,720 tonnes Demolition waste diverted from landfill	Emissions to outdoor air, soil and water						
Building operation Building Building operation Building Building Operation Building Bui	Nitrogen Oxides (NO _x) ^[7]	Use	Measured	0.00	mg/kWh	INA	kg/yr
Construction process INA	Use of freshwater resource						
Construction waste and recovery Construction waste [10] Construction Target 3.20 tonnes/100m2 17,600 tonnes Construction waste diverted from landfill[10] Construction Target 95.00% % 16,720 tonnes Demolition waste diverted from landfill[11]	Building operation ^[8]	Use	Modelled	INA	m3/person/yr	INA	m3/yr
Construction waste 10 Construction Target 3.20 tonnes 100m2 17,600 tonnes Construction waste diverted from landfill 10 Construction Target 95.00% % 16,720 tonnes Demolition waste diverted from landfill 11	Construction process ^[9]	INA	INA	INA	INA	INA	INA
Construction waste diverted from landfill ^[10] Demolition waste diverted from landfill ^[11] Demolition waste diverted from landfill ^[11] Demolition waste to disposal ^[11] Material for re-use ^[12] Construction Target INA tonnes/100m2 INA tonnes Material for energy recovery ^[12] Construction Target INA tonnes/100m2 INA tonnes Material for energy recovery ^[12] Construction Target INA tonnes/100m2 INA tonnes Construction Target INA tonnes/100m2 INA tonnes Materials responsibly sourced ^[12] Construction Target INA tonnes/100m2 INA tonnes Time out of range of reference temperature ^[14] Use Modelled INA % INA INA INA INA INA INA INA IN	Construction waste and recovery						
Construction waste diverted from landfill ^[10] Construction Target 95.00% % 16,720 tonnes Demolition waste diverted from landfill ^[11]	Construction waste ^[10]	Construction	Target	3.20	tonnes/100m2	17,600	tonnes
Demolition waste diverted from landfill ^[11]		Construction	Target	95.00%	%	16,720	tonnes
Demolition waste to disposal ^[11]	Demolition waste diverted from landfill ^[11]	-	-	-	-	-	-
Material for recycling ^[12] Construction Target INA tonnes/100m2 INA tonnes Material for energy recovery ^[12] Construction Target INA tonnes/100m2 INA tonnes Hazardous waste to disposal ^[12] Construction Target INA tonnes/100m2 INA tonnes Sourcing of materials Materials responsibly sourced ^[13] Construction Measured 25.00% % Thermal comfort Time out of range of reference temperature ^[14] Use Modelled INA % INA INA Indoor Air Quality Formaldehyde concentration level ^[15] INA INA - INA INA INA		-	-	-	-	-	-
Material for energy recovery Construction Target INA tonnes/100m2 INA tonnes Hazardous waste to disposal Construction Target INA tonnes/100m2 INA tonnes Sourcing of materials Materials responsibly sourced Construction Measured 25.00% % Thermal comfort Time out of range of reference temperature Use Modelled INA % INA INA Indoor Air Quality Formaldehyde concentration level INA INA INA INA INA INA INA	Material for re-use ^[12]	Construction	Target	INA	tonnes/100m2	INA	tonnes
Hazardous waste to disposal ^[12] Construction Target INA tonnes/100m2 INA tonnes Sourcing of materials Materials responsibly sourced ^[13] Construction Measured 25.00% % Thermal comfort Time out of range of reference temperature ^[14] Use Modelled INA % INA INA Indoor Air Quality Formaldehyde concentration level ^[15] INA INA - INA INA INA	Material for recycling ^[12]	Construction	Target	INA	tonnes/100m2	INA	tonnes
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Materials responsibly sourced ^[13] Construction Measured 25.00% % Thermal comfort Time out of range of reference temperature ^[14] Use Modelled INA % INA INA Indoor Air Quality Formaldehyde concentration level ^[15] INA INA - INA INA INA	Hazardous waste to disposal ^[12]	Construction	Target	INA	tonnes/100m2	INA	tonnes
Thermal comfort Time out of range of reference temperature ^[14] Use Modelled INA % INA INA Indoor Air Quality Formaldehyde concentration level ^[15] INA INA - INA INA INA	Sourcing of materials						
Time out of range of reference temperature Use Modelled INA % INA INA Indoor Air Quality Formaldehyde concentration level 15] INA INA - INA INA INA INA	Materials responsibly sourced ^[13]	Construction	Measured	25.00%	%	-	-
Indoor Air Quality Formaldehyde concentration level ^[15] INA INA - INA INA INA INA	Thermal comfort						
Indoor Air Quality Formaldehyde concentration level ^[15] INA INA - INA INA INA INA	Time out of range of reference temperature ^[14]	Use	Modelled	INA	%	INA	INA
Formaldehyde concentration level ^[15] INA INA - INA INA INA							
		INA	INA	-	INA	INA	INA
	Total volatile organic compound concentration ^[15]	INA	INA	INA	INA	INA	INA

Notes

- 1 Modelled using approved software compliant with the UK's National Calculation Method which in turn is compliant with Article 3 of The Energy Performance of Buildings Directive (EPBD) 2002/91/EC. Modelling includes building energy consumption resulting from the specification of a 'controlled', 'fixed building service' (as defined in Approved Document L2A, 2010).
- 2 The reported impact includes technologies that produce energy (on-site and/or near-site) as defined by Directive 2009/28/EC of the European Parliament and of the Council of 23 April 2009 on the promotion of the use of energy from renewable sources and amending and subsequently repealing Directives 2001/77/EC and 2003/30/EC.
- 3 The reported impact includes energy consumption from construction plant, equipment and site accommodation. This KPI is not assessed/reported at the design stage of assessment/certification.
- 4 The reported impact covers transport of the construction materials that make-up the main building elements and ground works and landscaping materials (from the factory gate to the site) and construction waste (from the construction gate to waste disposal processing / recovery centre gate). Main building elements are defined in the BREEAM 2011 New Construction Technical Guide (SD5073). This KPI is not assessed/reported at the design stage of assessment/certification.
- 5 The reported impact covers the construction materials that make-up the main building elements (over a 60 year study period). Main building elements are defined in the BREEAM 2011 New Construction Technical Guide (SDS073). The data is quantified using BRE's Environmental Profiles Methodology. The Environmental Profiles Methodology has been peer reviewed to comply with BS ISO 14040 and represents the Product Category Rules for RRE Global's environmental leading scheme (FD) ISO 14025. Type IIII Optor Instruction products and elements
- Category Rules for BRE Global's environmental labelling scheme (EPD ISO 14025, Type III) for construction products and elements

 The reported impact is for a 10 year study period. The calculation of the Direct Effect Life Cycle CQeq emissions used by BREEAM is based on the Total Equivalent Warming Impact (TEWI) calculation method for new stationary refrigeration and air conditioning systems, as described in Annex B of BS EN 378-1:2008.
- 7 The reported impact covers emissions from either one or a combination of space heating, cooling and hot water heating (refer to Pol02 Assessment Issue for scope of emissions)
- 8 The reported impact includes net water consumption from the micro-components utilised by building occupants for sanitary purposes. The impact accounts for water recycling/rainwater collection, where used for permissible non-potable water demands (For further detail refer to BREEAM 2011 New Construction Technical Guide (SD5073)).
- 9 The reported impact is net water consumption i.e. accounts for any water recycling/rainwater collection used to off-set a potable site demand. This KPI is not assessed/reported at the design stage of assessment/certification.
- 10 The reported impact covers non-hazardous waste from new construction materials, it therefore excludes hazardous and demolition and excavation waste. Where assessed and reported at the design stage of assessment this KPI is based on a target as reported in a compliant Site Waste Management Plan.
- 11 The reported impact covers non-hazardous waste from site demolition. Where assessed and reported at the design stage at the design stage of assessment this KPI is based on the target demolition waste diverted from landfill, as reported in a compliant Site Waste Management Plan. If no demolition taking place on site this KPI is not applicable.
- 12 Where assessed and reported at the design stage of assessment this KPI is based on a target as reported in a compliant Site Waste Management Plan.
- 13 The reported impact covers the proportion of the key building elements present and assessed by BREEAM that are responsibly sourced, where responsibly sourced is defined as follows; where at least 80% of the materials that make-up an element achieve certification in accordance with one of the responsible sourcing schemes defined in table 10-2 of the BREEAM 2011 New Construction Technical Guide (SD5073).
- 14 The reported impact covers the percentage "time out of range" of the minimum and maximum temperatures for summer and winter settings, whereby winter and summer settings are defined in accordance with the appropriate industry standard (refer to the BREEAM 2011 New Construction Technical Guide (SDS073) for further detail).
- 15 The total volatile organic compound (TVOC) concentration is measured post construction (but pre-occupancy) over 8 hours. Formaldehyde concentration level is measured post construction (but pre-occupancy) averaged over 30 minutes. Both KPI's are measured in accordance with European and/or ISO standards (refer to the BREEAM New Construction Technical Manual for relevant standard numbers. At the design stage of assessment no data is available for this KPI as they are both measured once the building has been constructed (but pre-occupancy) for the purpose of post construction assessment.

"INA" = Indicator Not Assessed. This will be the case where either the data required for the KPI is not gathered/measured by the building's project team or not assessed/quantified in BREEAM for a particular building type or assessment stage e.g. energy consumption for construction process at the design stage of assessment.
"." = KPI not applicable to building being assessed.



BREEAM Bespoke 2011 New Construction Assessment Report: Assessment Issue Scoring

Building name Deeside Energy from Waste Facility 74.31% Building rating Excellent Minimum standards level achieved Outstanding level MANAGEMENT Man01 Sustainable Procurement No. of BREEAM credits available 8 Available contribution to over No. of BREEAM innovation credits available 1 Minimum standards as Assessment Criteria Compliant? Credits available Credits ava	erall score 4.36%
Building rating Minimum standards level achieved Outstanding level MANAGEMENT Man01 Sustainable Procurement No. of BREEAM credits available No. of BREEAM innovation credits available Assessment Criteria Compliant? Credits available Credits.	erall score 4 36%
Minimum standards level achieved Outstanding level MANAGEMENT Man01 Sustainable Procurement No. of BREEAM credits available 8 Available contribution to over No. of BREEAM innovation credits available 1 Minimum standards at Assessment Criteria Compliant? Credits available Credits	erall score 4 36%
Man01 Sustainable Procurement No. of BREEAM credits available No. of BREEAM innovation credits available Assessment Criteria Compliant? Credits available Credits.	erall score 4 36%
Man01 Sustainable Procurement No. of BREEAM credits available 8 Available contribution to over No. of BREEAM innovation credits available 1 Minimum standards and Assessment Criteria Compliant? Credits available Credits	erall score 4 36%
No. of BREEAM credits available No. of BREEAM innovation credits available 1 Minimum standards a Assessment Criteria Compliant? Credits available Credits	erall score 4 36%
No. of BREEAM innovation credits available 1 Minimum standards a Assessment Criteria Compliant? Credits available Credits	erall score 4.36%
Assessment Criteria Compliant? Credits available Credits	
	applicable Yes
	- aleksa and
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	1
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	1
	1
Total BREEAM credits achieved 7	
Total contribution to overall building score 3.82%	
Total BREEAM innovation credits achieved 1	
Minimum standard(s) level Outstanding level	
Man02 Responsible Construction Practices	
No. of BREEAM credits available 2 Available contribution to over	erall score 1.09%
No. of BREEAM innovation credits available 1 Minimum standards a	applicable Yes
Assessment Criteria	
Assessment Criteria Compliant considerate construction scheme used Considerate Constructors Scheme	
Level achieved by the project using the compliant scheme A CCS score of 36 or more	
Total DDFF ANd and the selection of	
Total BREEAM credits achieved 2	
Total contribution to overall building score 1.09% Total BREEAM innovation credits achieved 1	
Minimum standard(s) level Outstanding level	
- William Standard(3) Tever Outstanding Tever	
Assessor comments/notes:	



Man03 Construction Site Impacts

No. of BREEAM credits available	5		Available contribut	tion to overall score	2.73%
No. of BREEAM innovation credits available	0		Minimum s	tandards applicable	No
Assessment Criteria		Camaliant	Credits available	Credits achieved	
		Compliant?	1		
	nption monitoring	Yes Yes	1	1	
Transport of construction materials and		Yes	1	1	
	ber procurement	Yes	1	1	
Construction site m	•	Yes			
Construction site management - Pollution Preve		Yes	1	1	
(ey Performance Indicators: Construction site energy use			<u></u>	<u>, </u>	
Energy consumption (total	l) - site processes		Information not as	vailable at design stage	
Energy consumption (intensity				ailable at design stage	
Distance (total) - material				vailable at design stage	
Distance (total) -waste tr				vailable at design stage	
Energy consumption (total) - material	s transport to site		Information not av	ailable at design stage	
Energy consumption (total) - waste tr	ransport from site		Information not av	ailable at design stage	
Energy consumption (intensity) - materials	transport to site		Information not av	ailable at design stage	
Energy consumption (intensity) - waste tra	ansport from site		Information not av	ailable at design stage	
ey Performance Indicators: Construction site greenhouse gas emiss	sions				
Process greenhouse gas emissions (tota	al) - site processes		Information not av	vailable at design stage	
Greenhouse gas emissions (intensit	y) - site processes		Information not av	ailable at design stage	
Greenhouse gas emissions (total) - material	s transport to site		Information not av	ailable at design stage	
Greenhouse gas emissions (total) - waste tr	ransport from site		Information not av	ailable at design stage	
Greenhouse gas emissions (intensity) - material	s transport to site			ailable at design stage	
Greenhouse gas emissions (intensity) - waste tr	ransport from site		Information not av	ailable at design stage	
ey Performance Indicators: Construction site use of freshwater res	ources				
Use of freshwater resource (tota	al) - site processes		Information not av	ailable at design stage	
Use of freshwater resource (intensit	y) - site processes		Information not av	ailable at design stage	
Total BREEAM credits achieved	5				
Total contribution to overall building score	2.73%				
Total BREEAM innovation credits achieved	N/A				
Minimum standard(s) level	N/A				
ssessor comments/notes:					

Man04 Stakeholder Participation

No. (of BREEAM credits available	4		Available contribu	tion to overall score	2.18%
No. of BREEAM	innovation credits available	0		Minimum s	tandards applicable	Yes
annount Cuitouin			Comminut	Cuadita available	Cuadita ashiowad	
sessment Criteria		Committee	Compliant?	Credits available	Credits achieved	
	Inclusive and	Consultation accessible design	Yes Yes	1	1	
		user information	Yes	1	1	
Post occupa	ancy evaluation and informati		Yes	1	1	
Tot	al BREEAM credits achieved	4				
Total contribut	ion to overall building score	2.18%				
Total BREEAM	innovation credits achieved	N/A				
	Minimum standard(s) level					
sessor comments/notes:						
sessor comments/notes.						
an05 Life cycle cost and service life p						
anos the tytle tost and service life b	planning					
and the cycle cost and service me p	planning					
		3		Available contribu	tion to overall score	1.64%
No. c	of BREEAM credits available	3			tion to overall score	1.64% No
No. c		3 0			tion to overall score tandards applicable	1.64% No
No. of BREEAM	of BREEAM credits available		Compliant?	Minimum s	tandards applicable	
No. of BREEAM ssessment Criteria	of BREEAM credits available innovation credits available	0	Compliant?	Minimum s Credits available	tandards applicable Credits achieved	
No. of BREEAM No. of Breeam ssessment Criteria Feasibility stag	of BREEAM credits available innovation credits available ELCC: concept design/develo	0 opment proposals	No	Minimum s Credits available	credits achieved	
No. of BREEAM Seessment Criteria Feasibility stag	of BREEAM credits available innovation credits available e LCC: concept design/develo m level LCC: component anal	0 opment proposals lysis and selection	No No	Minimum s Credits available 1 1	Credits achieved	
No. of BREEAM No. of BREEAM ssessment Criteria Feasibility stag Strategic and syster	of BREEAM credits available innovation credits available ELCC: concept design/develo	0 opment proposals lysis and selection	No	Minimum s Credits available	credits achieved	
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No. of BREEAM No. of BREEAM ssessment Criteria Feasibility stag Strategic and syster Technical design	of BREEAM credits available innovation credits available electrical electrica	0 opment proposals lysis and selection otenance strategy	No No	Minimum s Credits available 1 1	Credits achieved	
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No. of BREEAM Sessment Criteria Feasibility stag: Strategic and syster Technical design Total Total BREEAM	of BREEAM credits available innovation credits available e LCC: concept design/develom level LCC: component anal n LCC: specification and main al BREEAM credits achieved inn to overall building score innovation credits achieved	opment proposals lysis and selection latenance strategy 0 0.00% N/A	No No	Minimum s Credits available 1 1	Credits achieved	
No. of BREEAM Sessment Criteria Feasibility stag: Strategic and syster Technical design Total Total BREEAM	of BREEAM credits available innovation credits available e LCC: concept design/develom level LCC: component anal n LCC: specification and main al BREEAM credits achieved inn to overall building score innovation credits achieved	opment proposals lysis and selection latenance strategy 0 0.00% N/A	No No	Minimum s Credits available 1 1	Credits achieved	



HEALTH & WELLBEING Hea01 Visual Comfort No. of BREEAM credits available Available contribution to overall score 3.21% No. of BREEAM innovation credits available Minimum standards applicable Yes Assessment Criteria Compliant? Credits available Credits achieved Fluorescent lamps fitted with high frequency ballasts? N/A Yes N/A Daylight factor Yes 1 Yes 1 Internal and external lighting 1 1 Yes Exemplary level daylighting Nο 0 Total BREEAM credits achieved 3 Total contribution to overall building score 3.21% Total BREEAM innovation credits achieved 0 Minimum standard(s) level Outstanding level Assessor comments/notes: Hea02 Indoor Air Quality No. of BREEAM credits available Available contribution to overall score 4.29% No. of BREEAM innovation credits available Minimum standards applicable Assessment Criteria Compliant? Credits available Credits achieved Min. sources of air pollution: air quality plan (criterion 1) No 0 1 Min. sources of air pollution: internal and external source (criterion 2-5) No Minimising sources of air pollution: VOCs (specification) 0 No 1 Minimising sources of air pollution: VOCs (measurement) 0 No Potential for Natural Ventilation No 1 0 Key Performance Indicators: Indoor air quality Concentration levels of formaldehyde Information not available at design stage Total volatile organic compound (TVOC) concentration Information not available at design stage Total BREEAM credits achieved 0 Total contribution to overall building score 0.00% Total BREEAM innovation credits achieved N/A Minimum standard(s) level N/A Assessor comments/notes:



Hea03 Thermal Comfort

No. of BREEAM credits available	2		Available contribut	tion to overall score	2.14%
No. of BREEAM innovation credits available	0		Minimum s	tandards applicable	No
ssessment Criteria		Compliant?	Credits available	Credits achieved	
1	hermal modelling	No	1	0	
Thermal zoning an		No	1	0	
ey Performance Indicators: Thermal comfort (Time out of range (T	OR))				
TOR of min. and max. temperatures for summer a	nd winter settings		Indicator Not Asse	ssed	
T - 10055444 15 1 - 1	•				
Total BREEAM credits achieved Total contribution to overall building score	0				
Total BREEAM innovation credits achieved	0.00% N/A				
Minimum standard(s) level	N/A				
www.mam.standard(s) tever	14//				
Assessor comments/notes:					
Hea04 Water Quality					
			A !		4.070/
No. of BREEAM credits available	1			tion to overall score	1.07%
	1 0			tion to overall score tandards applicable	1.07% Yes
No. of BREEAM credits available					
No. of BREEAM credits available No. of BREEAM innovation credits available Assessment Criteria	0	Compliant?			
No. of BREEAM credits available No. of BREEAM innovation credits available ssessment Criteria Minimising risk of contaminati	0 on: water systems	Yes	Minimum s Credits available	credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available ssessment Criteria Minimising risk of contaminati Minimising risk of contamination: fails	0 on: water systems afe humidification	Yes N/A	Minimum s	tandards applicable	
No. of BREEAM credits available No. of BREEAM innovation credits available ssessment Criteria Minimising risk of contaminati Minimising risk of contamination: fails	0 on: water systems	Yes	Minimum s Credits available	credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available ssessment Criteria Minimising risk of contaminati Minimising risk of contamination: fails	0 on: water systems afe humidification	Yes N/A	Minimum s Credits available	credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available ssessment Criteria Minimising risk of contaminati Minimising risk of contamination: fails Provision of fre	0 on: water systems afe humidification esh drinking water	Yes N/A	Minimum s Credits available	credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available sssessment Criteria Minimising risk of contaminati Minimising risk of contamination: fails Provision of fre	0 on: water systems afe humidification esh drinking water 1	Yes N/A	Minimum s Credits available	credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available sssessment Criteria Minimising risk of contaminati Minimising risk of contamination: fails Provision of fro Total BREEAM credits achieved Total contribution to overall building score	on: water systems afe humidification esh drinking water 1 1.07% N/A	Yes N/A	Minimum s Credits available	credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available ssessment Criteria Minimising risk of contaminati Minimising risk of contamination: fails Provision of fro Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	on: water systems afe humidification esh drinking water 1 1.07% N/A	Yes N/A	Minimum s Credits available	credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available ssessment Criteria Minimising risk of contaminati Minimising risk of contamination: fails Provision of fro Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	on: water systems afe humidification esh drinking water 1 1.07% N/A	Yes N/A	Minimum s Credits available	credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available Assessment Criteria Minimising risk of contaminati Minimising risk of contamination: fails Provision of fre Total BREEAM credits achieved Total breeam innovation credits achieved	on: water systems afe humidification esh drinking water 1 1.07% N/A	Yes N/A	Minimum s Credits available	credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available ssessment Criteria Minimising risk of contaminati Minimising risk of contamination: fails Provision of fro Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	on: water systems afe humidification esh drinking water 1 1.07% N/A	Yes N/A	Minimum s Credits available	credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available Seessment Criteria Minimising risk of contamination: fails Provision of fro Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	on: water systems afe humidification esh drinking water 1 1.07% N/A	Yes N/A	Minimum s Credits available	credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available Seessment Criteria Minimising risk of contaminati Minimising risk of contamination: fails Provision of fro Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	on: water systems afe humidification esh drinking water 1 1.07% N/A	Yes N/A	Minimum s Credits available	credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available Seessment Criteria Minimising risk of contaminati Minimising risk of contamination: fails Provision of fro Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	on: water systems afe humidification esh drinking water 1 1.07% N/A	Yes N/A	Minimum s Credits available	credits achieved	



Hea05 Acoustic Performance

	No. of BREEAM credits available	2		Available contribut	tion to overall score	2.14%
	No. of BREEAM innovation credits available	0		Minimum st	tandards applicable	No
essment Criteria			Compliant?	Credits available	Credits achieved	
essilient Criteria	Appointment of a suitably qua	dified acquetician	Yes		credits acmeved	
	Appointment of a suitably qua Acoustic performance standards and test		Yes	2	2	
	Total BREEAM credits achieved	2				
	Total contribution to overall building score	2.14%				
	Total BREEAM innovation credits achieved	N/A				
	Minimum standard(s) level	N/A				
essor comments/r	otes:					
a06 Safety and Sec	urity					
a06 Safety and Sec	urity No. of BREEAM credits available	2		Available contribut	ion to overall score	2.14%
a06 Safety and Sec		2 0			cion to overall score tandards applicable	2.14% No
	No. of BREEAM credits available			Minimum si	tandards applicable	
	No. of BREEAM credits available No. of BREEAM innovation credits available	0	Compliant?	Minimum st	tandards applicable Credits achieved	
	No. of BREEAM credits available No. of BREEAM innovation credits available Saf	0 e external access	Yes	Minimum si Credits available	credits achieved	
	No. of BREEAM credits available No. of BREEAM innovation credits available Saf	0		Minimum st	tandards applicable Credits achieved	
	No. of BREEAM credits available No. of BREEAM innovation credits available Saf	0 e external access	Yes	Minimum si Credits available	credits achieved	
	No. of BREEAM credits available No. of BREEAM innovation credits available Saf Security of Total BREEAM credits achieved	0 e external access site and building	Yes	Minimum si Credits available	credits achieved	
	No. of BREEAM credits available No. of BREEAM innovation credits available Saf Security of	0 e external access site and building 2 2.14%	Yes	Minimum si Credits available	credits achieved	
	No. of BREEAM credits available No. of BREEAM innovation credits available Saf Security of Total BREEAM credits achieved Total contribution to overall building score	0 e external access site and building	Yes	Minimum si Credits available	credits achieved	
sessment Criteria	No. of BREEAM credits available No. of BREEAM innovation credits available Saf Security of Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	e external access site and building 2 2.14% N/A	Yes	Minimum si Credits available	credits achieved	
sessment Criteria	No. of BREEAM credits available No. of BREEAM innovation credits available Saf Security of Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	e external access site and building 2 2.14% N/A	Yes	Minimum si Credits available	credits achieved	
sessment Criteria	No. of BREEAM credits available No. of BREEAM innovation credits available Saf Security of Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	e external access site and building 2 2.14% N/A	Yes	Minimum si Credits available	credits achieved	
sessor comments/r	No. of BREEAM credits available No. of BREEAM innovation credits available Saf Security of Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	e external access site and building 2 2.14% N/A	Yes	Minimum si Credits available	credits achieved	
sessment Criteria	No. of BREEAM credits available No. of BREEAM innovation credits available Saf Security of Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	e external access site and building 2 2.14% N/A	Yes	Minimum si Credits available	credits achieved	
sessment Criteria	No. of BREEAM credits available No. of BREEAM innovation credits available Saf Security of Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	e external access site and building 2 2.14% N/A	Yes	Minimum si Credits available	credits achieved	
sessment Criteria	No. of BREEAM credits available No. of BREEAM innovation credits available Saf Security of Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	e external access site and building 2 2.14% N/A	Yes	Minimum si Credits available	credits achieved	



ENERGY

Ene01 Reduction of CO₂ Emissions

No. of BREEAM credits available	15	Available contribution to overall score	10.56%
No. of BREEAM innovation credits available	5	Minimum standards applicable	Yes

Ene01 Calculator and Key Performance Indicators

inest entended and help to manage managers		
Building floor area	5500	m2
Notional building energy demand	295.19	MJ/m2/annum
Actual building energy demand	160.68	MJ/m2/annum
Notional building energy consumption	164.43	kWh/m2/yr
Actual building energy consumption	84.06	kWh/m2/yr
Target Emission Rate (TER)	23.00	kgCO2/m2/yr
Building Emission Rate (BER)	2.30	kgCO2/m2/yr
Building Emission Rate improvement over TER	90.00%	
Demand Energy Performance Ratio (EPR)	0.2413	
Consumption Energy Performance Ratio (EPR)	0.4082	
CO ₂ Energy Performance Ratio (EPR)	0.3396	
Overall Building Energy Performance Ratio (EPR _{NC})	0.9891	

Overall Building Energy Performance Ratio (EPR $_{\! exttt{NC}}$)	0.9891		
Have the values entered above for the non-domestic	building been veri	fied using BREEAM's Ene01 Compliance Checker website?	Yes
Equivalent % of the building's 'regulated' energy consumption g		on neutral sources and used to meet energy demand from 'unregulated' building systems or processes? Is the building designed to be 'carbon negative'? enewable/carbon neutral energy generated and exported	
Total BREEAM credits achieved	14		
Total contribution to overall building score	9.85%		
Total BREEAM innovation credits achieved	0		
Minimum standard(s) level	Outstanding level		

Minimum standard(s) level Outstanding level	
Assessor comments/notes:	



Ene02 Energy Monitoring

	No. of BREEAM credits available	2		Available contribu	tion to overall score	1.41%
	No. of BREEAM innovation credits available					
	NO. OF BREEAW HIHOVACION CIEURS AVAILABLE	U		IVIIIIIIIIII S	tandards applicable	Yes
sessment Criteria			Compliant?	Credits available	Credits achieved	
	Monitoring of major energy		Yes	1	1	
	Monitoring of energy use by tenar	ncy or function area	Yes	1	1	
	Total BREEAM credits achieved	d 2				
	Total contribution to overall building score					
	Total BREEAM innovation credits achieved					
	Minimum standard(s) leve					
	iviiiiiiiii stailaara(s) ieve	Outstanding level				
sessor comments/no	otes:					
and Fusion and Limbatin						
e03 External Lightin	g					
e03 External Lightin		a 1		Available contribu	tion to overall score	0.70%
e03 External Lightin	No. of BREEAM credits available				tion to overall score	0.70%
e03 External Lightin					tion to overall score tandards applicable	0.70% No
e03 External Lightin	No. of BREEAM credits available					
	No. of BREEAM credits available		Compliant?			
	No. of BREEAM credits available No. of BREEAM innovation credits available		Compliant? Yes	Minimum s	tandards applicable	
	No. of BREEAM credits available No. of BREEAM innovation credits available External li	e 0 ghting specification		Minimum s Credits available	tandards applicable Credits achieved	
	No. of BREEAM credits available No. of BREEAM innovation credits available	e 0 ghting specification		Minimum s Credits available	tandards applicable Credits achieved	
	No. of BREEAM credits available No. of BREEAM innovation credits available External li	e 0 ghting specification		Minimum s Credits available	tandards applicable Credits achieved	
	No. of BREEAM credits available No. of BREEAM innovation credits available External light	ghting specification 1 1 0.70%		Minimum s Credits available	tandards applicable Credits achieved	
	No. of BREEAM credits available No. of BREEAM innovation credits available External lig Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved	ghting specification 1 1 2 0.70% 1 N/A		Minimum s Credits available	tandards applicable Credits achieved	
	No. of BREEAM credits available No. of BREEAM innovation credits available External light Total BREEAM credits achieved Total contribution to overall building score	ghting specification 1 1 2 0.70% 1 N/A		Minimum s Credits available	tandards applicable Credits achieved	
sessment Criteria	No. of BREEAM credits available No. of BREEAM innovation credits available External lig Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) leve	ghting specification 1 1 2 0.70% 1 N/A		Minimum s Credits available	tandards applicable Credits achieved	
ssessment Criteria	No. of BREEAM credits available No. of BREEAM innovation credits available External lig Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) leve	ghting specification 1 1 2 0.70% 1 N/A		Minimum s Credits available	tandards applicable Credits achieved	
ssessment Criteria	No. of BREEAM credits available No. of BREEAM innovation credits available External lig Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) leve	ghting specification 1 1 2 0.70% 1 N/A		Minimum s Credits available	tandards applicable Credits achieved	
ssessment Criteria	No. of BREEAM credits available No. of BREEAM innovation credits available External lig Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) leve	ghting specification 1 1 2 0.70% 1 N/A		Minimum s Credits available	tandards applicable Credits achieved	
ssessment Criteria	No. of BREEAM credits available No. of BREEAM innovation credits available External lig Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) leve	ghting specification 1 1 2 0.70% 1 N/A		Minimum s Credits available	tandards applicable Credits achieved	
sessment Criteria	No. of BREEAM credits available No. of BREEAM innovation credits available External lig Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) leve	ghting specification 1 1 2 0.70% 1 N/A		Minimum s Credits available	tandards applicable Credits achieved	
sessment Criteria	No. of BREEAM credits available No. of BREEAM innovation credits available External lig Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) leve	ghting specification 1 1 2 0.70% 1 N/A		Minimum s Credits available	tandards applicable Credits achieved	
sessment Criteria	No. of BREEAM credits available No. of BREEAM innovation credits available External lig Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) leve	ghting specification 1 1 2 0.70% 1 N/A		Minimum s Credits available	tandards applicable Credits achieved	
sessment Criteria	No. of BREEAM credits available No. of BREEAM innovation credits available External lig Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) leve	ghting specification 1 1 2 0.70% 1 N/A		Minimum s Credits available	tandards applicable Credits achieved	
sessment Criteria	No. of BREEAM credits available No. of BREEAM innovation credits available External lig Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) leve	ghting specification 1 1 2 0.70% 1 N/A		Minimum s Credits available	tandards applicable Credits achieved	
sessment Criteria	No. of BREEAM credits available No. of BREEAM innovation credits available External lig Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) leve	ghting specification 1 1 2 0.70% 1 N/A		Minimum s Credits available	tandards applicable Credits achieved	



Ene04 Low and Zero Carbon Technology No. of BREEAM credits available Available contribution to overall score 3.52% No. of BREEAM innovation credits available Minimum standards applicable Yes Assessment Criteria Compliant? Credits available Credits achieved Compliant LZC feasibility study Yes 2 1 Scope of the feasibility study Operational stage carbon savings/emissions Percentage net reduction in operational stage CO2 emissions 20.00% Energy source of the LZC system Biomass Please select No 1 0 KPI - Low and/or zero carbon energy generation Total on-site and/or near-site LZC energy generation kWh/yr Total BREEAM credits achieved Total contribution to overall building score 2.11% Total BREEAM innovation credits achieved Minimum standard(s) level Outstanding level Assessor comments/notes: **Ene05 Energy Efficient Cold Storage Assessment Issue Not Applicable** No. of BREEAM credits available Available contribution to overall score N/A N/A No. of BREEAM innovation credits available N/A Minimum standards applicable N/A Assessment Criteria Compliant? Credits available Credits achieved Total BREEAM credits achieved N/A Total contribution to overall building score N/A Total BREEAM innovation credits achieved N/A Minimum standard(s) level N/A

Assessor comments/notes:



Ene06 Energy Efficient Transportation Systems

No. of BREEAM credits available No. of BREEAM innovation credits available No. of BREEAM innovation credits available No. of BREEAM innovation credits available Transportation system analysis and strategy Energy efficient transportation features Total BREEAM credits achieved Total ornifoution to overal building score Total BREEAM credits achieved N/A Minimum standard(c) level N/A No. of BREEAM innovation credits available N/A N/A No. of BREEAM credits achieved N/A	No. of BREEAM innovation credits available sessment Criteria Transportation system ana Energy efficient transp Total BREEAM credits achieved			Available contributi	on to overall score	
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Sessment Criteria Transportation system analysis and strategy Energy efficient transportation features Total BREEAM credits achieved Total BREEAM credits achieved Total BREEAM innovation credits achieved N/A No. of BREEAM innovation credits available N/A No. of BREEAM innovation credits achieved N/A No. of BREEAM innovation credits achieved N/A Total Contribution to overall building score Total BREEAM credits achieved N/A No. of BREEAM innovation credits available N/A Total contribution to overall building score Total BREEAM credits achieved N/A Total Contribution to overall building score N/A Minimum standard(s) level N/A Total BREEAM credits achieved N/A Minimum standard(s) level N/A Total BREEAM credits achieved N/A Total Contribution to overall building score N/A Minimum standard(s) level N/A	sessment Criteria Transportation system ana Energy efficient transp Total BREEAM credits achieved	Ū				
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Total BREEAM innovation credits achieved N/A Minimum standard(s) level sessor comments/notes: ### Assessment Issue Not Applicable N/A No. of BREEAM credits available N/A No. of BREEAM innovation credits available N/A No. of BREEAM innovation credits available N/A **Compliant?** Credits available Credits achieved Total BREEAM credits achieved Total BREEAM credits achieved N/A Total BREEAM innovation credits achieved N/A Total BREEAM innovation credits achieved N/A Total BREEAM innovation credits achieved N/A Total BREEAM innovation credits achieved N/A Minimum standard(s) level N/A N/A Total BREEAM innovation credits achieved N/A Minimum standard(s) level N/A Minimum standard(s) level N/A		ortation features	Yes	1	1	
Total BREEAM innovation credits achieved N/A Minimum standard(s) level sessor comments/notes: ### Assessment Issue Not Applicable N/A No. of BREEAM credits available N/A No. of BREEAM innovation credits available N/A No. of BREEAM innovation credits available N/A **Compliant?** Credits available Credits achieved Total BREEAM credits achieved Total BREEAM credits achieved N/A Total BREEAM innovation credits achieved N/A Total BREEAM innovation credits achieved N/A Total BREEAM innovation credits achieved N/A Total BREEAM innovation credits achieved N/A Minimum standard(s) level N/A N/A Total BREEAM innovation credits achieved N/A Minimum standard(s) level N/A Minimum standard(s) level N/A		2				
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sessor comments/notes: Page 25	-					
sessor comments/notes: No. of Breead credits available N/A Available contribution to overall score N/A						
Record Energy Efficient Laboratory Systems No. of BREEAM credits available No. of BREEAM innovation credits achieved No. of BREEAM innovation cred						
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No. of BREEAM credits available No. of BREEAM innovation credits ava						
No. of BREEAM innovation credits available Compliant? Credits available Credits achieved	e07 Energy Efficient Laboratory Systems				Assessment Issue	Not Applicat
No. of BREEAM innovation credits available Compliant? Credits available Credits achieved Compliant? Credits available Credits achieved Total BREEAM credits achieved N/A Total contribution to overall building score N/A Minimum standard(s) level	No. of BREEAM credits available	N/A		Available contributi	on to overall score	N/Λ
Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved N/A Minimum standard(s) level N/A						
Total BREEAM credits achieved N/A Total contribution to overall building score N/A Total BREEAM innovation credits achieved N/A Minimum standard(s) level N/A	No. of BREEAM innovation credits available	N/A		Minimum st	andards applicable	N/A
Total BREEAM credits achieved N/A Total contribution to overall building score N/A Total BREEAM innovation credits achieved N/A Minimum standard(s) level N/A						
Total BREEAM credits achieved N/A Total contribution to overall building score N/A Total BREEAM innovation credits achieved N/A Minimum standard(s) level N/A	Citaria		C!:+2	Condito overilatela	Consider a alatawa d	
Total contribution to overall building score N/A Total BREEAM innovation credits achieved N/A Minimum standard(s) level N/A	sessment Criteria		Compliant?	Credits available	Credits achieved	
Total contribution to overall building score N/A Total BREEAM innovation credits achieved N/A Minimum standard(s) level N/A						
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Total contribution to overall building score N/A Total BREEAM innovation credits achieved N/A Minimum standard(s) level N/A						
Total BREEAM innovation credits achieved N/A Minimum standard(s) level N/A	Total RREFAM credits achieved	Ν/Δ				
Minimum standard(s) level N/A						
	Total contribution to overall building score	N/A				
	Total contribution to overall building score	N/A				
sessor comments/notes:	Total contribution to overall building score Total BREEAM innovation credits achieved	N/A N/A				
	Total contribution to overall building score Total BREEAM innovation credits achieved	N/A N/A				
	Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	N/A N/A				
	Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	N/A N/A				
	Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	N/A N/A				
	Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	N/A N/A				
	Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	N/A N/A				
	Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	N/A N/A				
	Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	N/A N/A				
	Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	N/A N/A				
	Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	N/A N/A				



Ene08 Energy Efficient Equipment

No. of BREEAM credits available	2		Available contribut	ion to overall score	1.41%
No. of BREEAM innovation credits available	0		Minimum st	andards applicable	No
			Significant		
			majority		
Assessment Criteria		Present	contributor		
Small power and plu	g in oquinment	Yes	Yes		
	Swimming pool	No	165		
	nmunal laundry	No			
Com	Data centre	No			
IT intensive o	operation areas	Yes	Yes		
	esidential areas	No	165		
, ne	Healthcare	No			
Vitchon and ca		No			
NICTION AND CO	atering facilities	INU			
		Compliant	Credits available	Credits achieved	
Significant majority contributors BRE	EAM compliant	Yes	2	2	
Total BREEAM credits achieved	2				
Total contribution to overall building score	1.41%				
Total BREEAM innovation credits achieved	N/A				
Minimum standard(s) level	N/A				
Assessor comments/notes:					
Ene09 Drying Space				Assessment Issue	Not Applicabl
Ene09 Drying Space No. of BREEAM credits available	N/A		Available contribut	Assessment Issue	Not Applicable
	N/A N/A				
No. of BREEAM credits available				ion to overall score	N/A
No. of BREEAM credits available				ion to overall score	N/A
No. of BREEAM credits available		Compliant?		ion to overall score	N/A
No. of BREEAM credits available No. of BREEAM innovation credits available		Compliant?	Minimum st	ion to overall score	N/A
No. of BREEAM credits available No. of BREEAM innovation credits available		Compliant?	Minimum st	ion to overall score	N/A
No. of BREEAM credits available No. of BREEAM innovation credits available Assessment Criteria	N/A	Compliant?	Minimum st	ion to overall score	N/A
No. of BREEAM credits available No. of BREEAM innovation credits available Assessment Criteria Total BREEAM credits achieved	N/A N/A	Compliant?	Minimum st	ion to overall score	N/A
No. of BREEAM credits available No. of BREEAM innovation credits available Assessment Criteria Total BREEAM credits achieved Total contribution to overall building score	N/A N/A N/A	Compliant?	Minimum st	ion to overall score	N/A
No. of BREEAM credits available No. of BREEAM innovation credits available Assessment Criteria Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved	N/A N/A N/A N/A	Compliant?	Minimum st	ion to overall score	N/A
No. of BREEAM credits available No. of BREEAM innovation credits available Assessment Criteria Total BREEAM credits achieved Total contribution to overall building score	N/A N/A N/A	Compliant?	Minimum st	ion to overall score	N/A
No. of BREEAM credits available No. of BREEAM innovation credits available Assessment Criteria Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	N/A N/A N/A N/A	Compliant?	Minimum st	ion to overall score	N/A
No. of BREEAM credits available No. of BREEAM innovation credits available Assessment Criteria Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved	N/A N/A N/A N/A	Compliant?	Minimum st	ion to overall score	N/A
No. of BREEAM credits available No. of BREEAM innovation credits available Assessment Criteria Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	N/A N/A N/A N/A	Compliant?	Minimum st	ion to overall score	N/A
No. of BREEAM credits available No. of BREEAM innovation credits available Assessment Criteria Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	N/A N/A N/A N/A	Compliant?	Minimum st	ion to overall score	N/A
No. of BREEAM credits available No. of BREEAM innovation credits available Assessment Criteria Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	N/A N/A N/A N/A	Compliant?	Minimum st	ion to overall score	N/A
No. of BREEAM credits available No. of BREEAM innovation credits available Assessment Criteria Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	N/A N/A N/A N/A	Compliant?	Minimum st	ion to overall score	N/A
No. of BREEAM credits available No. of BREEAM innovation credits available Assessment Criteria Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	N/A N/A N/A N/A	Compliant?	Minimum st	ion to overall score	N/A
No. of BREEAM credits available No. of BREEAM innovation credits available Assessment Criteria Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	N/A N/A N/A N/A	Compliant?	Minimum st	ion to overall score	N/A
No. of BREEAM credits available No. of BREEAM innovation credits available Assessment Criteria Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	N/A N/A N/A N/A	Compliant?	Minimum st	ion to overall score	N/A



TRANSPORT Tra01 Public Transport Accessibility No. of BREEAM credits available Available contribution to overall score 2.67% No. of BREEAM innovation credits available Minimum standards applicable No Building type category (for purpose of Tra01 issue assessment) Other Building Type 1 Assessment Criteria Compliant Credits available Credits achieved Public transport accessibility index 0.00 0 3 Building dedicated bus service No 0 Total BREEAM credits achieved 0 Total contribution to overall building score 0.00% Total BREEAM innovation credits achieved N/A Minimum standard(s) level N/A Assessor comments/notes: **Tra02 Proximity to Amenities** No. of BREEAM credits available Available contribution to overall score 0.89% Minimum standards applicable No. of BREEAM innovation credits available No Assessment Criteria Compliant? Credits available Credits achieved Close proximity and accessible to applicable amenities No Total BREEAM credits achieved 0 Total contribution to overall building score 0.00% Total BREEAM innovation credits achieved N/A Minimum standard(s) level N/A Assessor comments/notes:



Tra03 Cyclist facilities

	No. of BREEAM credits available	2		Available contribut	cion to overall score	1.78%
	No. of BREEAM innovation credits available	0			tandards applicable	No
		Ū			апаагаз аррпсавте	110
	Building type category (for purpose of Tra03			ransport type 1		
	Number of compliant cycle storage	· · · · · · · · · · · · · · · · · · ·		nging facilities and l	ackars	
	Cyclist i	acilities provided	Showers and cha	nging facilities and I	ockers	
Assessment Criteria	C.		Compliant?	Credits available	Credits achieved	
	Cyc	cle storage spaces Cyclist facilities		2	2	
	Total BREEAM credits achieved	2				
	Total contribution to overall building score	1.78%				
	Total BREEAM innovation credits achieved Minimum standard(s) level	N/A N/A				
		IN/A				
Assessor comments/	notes:					
Tra04 Maximum Car	Parking Capacity					
Tra04 Maximum Car	Parking Capacity No. of BREEAM credits available	2		Available contribu	cion to overall score	1.78%
Tra04 Maximum Car		2 0			cion to overall score	1.78% No
Tra04 Maximum Car	No. of BREEAM credits available					
Tra04 Maximum Car	No. of BREEAM credits available No. of BREEAM innovation credits available	0	Other Building	Minimum s		
Tra04 Maximum Car	No. of BREEAM credits available No. of BREEAM innovation credits available Building type category (for purpo	0 se of Tra04 issue)	Other Building - t	Minimum s		
Tra04 Maximum Car	No. of BREEAM credits available No. of BREEAM innovation credits available	0 se of Tra04 issue)	_	Minimum s		
	No. of BREEAM credits available No. of BREEAM innovation credits available Building type category (for purpo	0 se of Tra04 issue)	0	Minimum s ransport type 1	tandards applicable	
Tra04 Maximum Car	No. of BREEAM credits available No. of BREEAM innovation credits available Building type category (for purpo Buildings Accessibility Index (sourced	0 se of Tra04 issue) from issue Tra01)	O Compliant?	ransport type 1 Credits available	credits achieved	
	No. of BREEAM credits available No. of BREEAM innovation credits available Building type category (for purpo Buildings Accessibility Index (sourced	0 se of Tra04 issue)	O Compliant?	Minimum s ransport type 1	tandards applicable	
	No. of BREEAM credits available No. of BREEAM innovation credits available Building type category (for purpo Buildings Accessibility Index (sourced Maximum Total BREEAM credits achieved	0 se of Tra04 issue) from issue Tra01)	O Compliant?	ransport type 1 Credits available	credits achieved	
	No. of BREEAM credits available No. of BREEAM innovation credits available Building type category (for purpo Buildings Accessibility Index (sourced Maximum Total BREEAM credits achieved Total contribution to overall building score	0 se of Tra04 issue) from issue Tra01) n parking capacity 1 0.89%	O Compliant?	ransport type 1 Credits available	credits achieved	
	No. of BREEAM credits available No. of BREEAM innovation credits available Building type category (for purpo Buildings Accessibility Index (sourced Maximum Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved	0 se of Tra04 issue) from issue Tra01) n parking capacity 1 0.89% N/A	O Compliant?	ransport type 1 Credits available	credits achieved	
	No. of BREEAM credits available No. of BREEAM innovation credits available Building type category (for purpo Buildings Accessibility Index (sourced Maximum Total BREEAM credits achieved Total contribution to overall building score	0 se of Tra04 issue) from issue Tra01) n parking capacity 1 0.89%	O Compliant?	ransport type 1 Credits available	credits achieved	
	No. of BREEAM credits available No. of BREEAM innovation credits available Building type category (for purpo Buildings Accessibility Index (sourced Maximum Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	0 se of Tra04 issue) from issue Tra01) n parking capacity 1 0.89% N/A	O Compliant?	ransport type 1 Credits available	credits achieved	
Assessment Criteria	No. of BREEAM credits available No. of BREEAM innovation credits available Building type category (for purpo Buildings Accessibility Index (sourced Maximum Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	0 se of Tra04 issue) from issue Tra01) n parking capacity 1 0.89% N/A	O Compliant?	ransport type 1 Credits available	credits achieved	
Assessment Criteria	No. of BREEAM credits available No. of BREEAM innovation credits available Building type category (for purpo Buildings Accessibility Index (sourced Maximum Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	0 se of Tra04 issue) from issue Tra01) n parking capacity 1 0.89% N/A	O Compliant?	ransport type 1 Credits available	credits achieved	
Assessment Criteria	No. of BREEAM credits available No. of BREEAM innovation credits available Building type category (for purpo Buildings Accessibility Index (sourced Maximum Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	0 se of Tra04 issue) from issue Tra01) n parking capacity 1 0.89% N/A	O Compliant?	ransport type 1 Credits available	credits achieved	
Assessment Criteria	No. of BREEAM credits available No. of BREEAM innovation credits available Building type category (for purpo Buildings Accessibility Index (sourced Maximum Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	0 se of Tra04 issue) from issue Tra01) n parking capacity 1 0.89% N/A	O Compliant?	ransport type 1 Credits available	credits achieved	
Assessment Criteria	No. of BREEAM credits available No. of BREEAM innovation credits available Building type category (for purpo Buildings Accessibility Index (sourced Maximum Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	0 se of Tra04 issue) from issue Tra01) n parking capacity 1 0.89% N/A	O Compliant?	ransport type 1 Credits available	credits achieved	
Assessment Criteria	No. of BREEAM credits available No. of BREEAM innovation credits available Building type category (for purpo Buildings Accessibility Index (sourced Maximum Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	0 se of Tra04 issue) from issue Tra01) n parking capacity 1 0.89% N/A	O Compliant?	ransport type 1 Credits available	credits achieved	



Tra05 Travel Plan

ra05 Travel Plan						
	No. of BREEAM credits available	1		Available contribu	ion to overall score	0.89%
	No. of BREEAM innovation credits available	0		Minimum s	andards applicable	No
ssessment Criteria			Compliant?	Credits available	Credits achieved	
	Transport plan based on site specific travel su	urvey/assessment	Yes	1	1	
		<i>"</i>		<u>'</u>		
	Total BREEAM credits achieved	1				
	Total contribution to overall building score	0.89%				
	Total BREEAM innovation credits achieved	N/A				
	Minimum standard(s) level	N/A				
Assessor comments/r	notes:					
WATER						
Vat01 Water Consur	nption					
	No. of BREEAM credits available	5			ion to overall score	3.33%
	No. of BREEAM innovation credits available	1		Minimum s	andards applicable	Yes
toudoud opposed de						
tandard approach da	Water Consumption from building mi	icro components		L/person/day		
	Water Consumption from building mi			L/person/day		
		ater consumption		L/person/day		
	Improvement on base		40.00%	%		
'ay Parfarmanca Indi	cator - use of freshwater resource			_		
key Periormanice mui		ter Consumption		m3/person/yr		
		uilding occupancy		IIIS/person/yr		
	Delaut Se	anding occupancy		_		
Alternative approach	data					
	Overall microcomponent performan	ce level achieved				
	Total BREEAM credits achieved	3				
	Total contribution to overall building score	2.00%				
	Total BREEAM innovation credits achieved	0				
	Minimum standard(s) level	Outstanding level				
Assessor comments/r	notes:					

Wat02 Water Monitoring

	No. of BREEAM credits available	1		Available contribu	tion to overall score	0.67%
No.	of BREEAM innovation credits available	0		Minimum s	tandards applicable	Yes
sessment Criteria			Compliant?	Credits available	Credits achieved	
icasinent entena	Water meter on the mains water supply	to the building(s)	Yes	1	1	
Meterin	g/monitoring equipment on supply to pla		Yes	1	1	
	Pulsed output on all relev	-	Yes	1		
	Existing	BMS connection	N/A]		
	Total BREEAM credits achieved	1				
Tot	al contribution to overall building score	0.67%				
	tal BREEAM innovation credits achieved	N/A				
10	Minimum standard(s) level					
	iviiiiii standara(5) iever	outstanding lever				
sessor comments/notes:						
at03 Water Leak Detecti	on and Prevention					
at03 Water Leak Detectio						
	No. of BREEAM credits available	2			tion to overall score	1.33%
		2 0			tion to overall score tandards applicable	1.33% No
	No. of BREEAM credits available					
No.	No. of BREEAM credits available		Compliant?			
No.	No. of BREEAM credits available	0	Compliant? Yes	Minimum s	tandards applicable	
No.	No. of BREEAM credits available of BREEAM innovation credits available	0 ains water supply	-	Minimum s Credits available	tandards applicable Credits achieved	
No.	No. of BREEAM credits available of BREEAM innovation credits available Leak detection on building's m Flow control device to each sar	0 ains water supply itary area/facility	Yes	Minimum s Credits available	credits achieved	
No. essment Criteria	No. of BREEAM credits available of BREEAM innovation credits available Leak detection on building's m Flow control device to each sar	0 ains water supply itary area/facility 2	Yes	Minimum s Credits available	credits achieved	
No. sessment Criteria Tot	No. of BREEAM credits available of BREEAM innovation credits available Leak detection on building's m Flow control device to each sar Total BREEAM credits achieved al contribution to overall building score	0 ains water supply itary area/facility 2 1.33%	Yes	Minimum s Credits available	credits achieved	
No. sessment Criteria Tot	No. of BREEAM credits available of BREEAM innovation credits available Leak detection on building's m Flow control device to each sar Total BREEAM credits achieved al contribution to overall building score tal BREEAM innovation credits achieved	0 ains water supply itary area/facility 2 1.33% N/A	Yes	Minimum s Credits available	credits achieved	
No. sessment Criteria Tot	No. of BREEAM credits available of BREEAM innovation credits available Leak detection on building's m Flow control device to each sar Total BREEAM credits achieved al contribution to overall building score	0 ains water supply itary area/facility 2 1.33%	Yes	Minimum s Credits available	credits achieved	

Wat04 Water Efficient Equipment

	No. of BREEAM credits available	1		Available contribu	tion to overall score	0.67%
	No. of BREEAM innovation credits available	No			tandards applicable	No
Assessment Criteria			Compliant?	Credits available	Credits achieved	
	Specification/installation of water ef	ficient equipment	Yes	1	1	
	Total BREEAM credits achieved	1				
	Total contribution to overall building score	0.67%				
	Total BREEAM innovation credits achieved	N/A				
	Minimum standard(s) level	N/A				
Assessor comments/n	otes:					
MATERIALS						
Mat01 Life Cycle Impa	acts					
, .						
	No. of BREEAM credits available	6			tion to overall score	5.77%
	No. of BREEAM innovation credits available	1		wiinimum s	tandards applicable	No
Assessment Criteria	Total Mat01	credits achieved	5	İ		
		1 points achieved				
	Number of building e		No			
	Exemplary	level compliant?	No			
					Area of element	
			Total area of	Total impact	impact data	
Key Performance India	cator - embodied green house gas emissions by	y element	element m ²	kgCO₂ eq.	relevant to m ²	
		External walls				
		Windows Roof				
	Upper f	loor construction				
	Floor	Internal wall inishes/coverings				
Kau Dawf			al alamana III	<u> </u>	JI	
	cator - embodied green house gas emissions for d green house gas emissions for building (by as		Missing data	kgCO₂ eq.		kgCO ₂ eq./m ²
	ortion of applicable building elements that data	· ·	iviissiiig data	NgCO ₂ cq.		KgCO ₂ cq./ III
·						
	Total BREEAM credits achieved	5				
	Total contribution to overall building score Total BREEAM innovation credits achieved	4.81% 0				
	Minimum standard(s) level	N/A				
		,, ,				
Assessor comments/n	otes:					
1						



Mat02 Hard Landscaping and Boundary Protection

	No. of BREEAM credits available	1		Available contribut	ion to overall score	0.96%
	No. of BREEAM innovation credits available	0			andards applicable	No
	No. of BREEAW Hillovation creates available	U		William 30	andaras applicable	140
sessment Criteria	5: 11 11 1 : 11		Compliant?	Credits available	Credits achieved	
	External hard landscaping and bou	indary protection	Yes	1	1	
	Total BREEAM credits achieved	1				
	Total contribution to overall building score	0.96%				
	Total BREEAM innovation credits achieved	N/A				
	Minimum standard(s) level	N/A				
sessor comments/n	otos					
essor comments/ii	otes.					
t03 Responsible So	ourcing					
	No. of BREEAM credits available	3		Available contribut	ion to overall score	2.88%
	No. of BREEAM innovation credits available	1			andards applicable	Yes
sessment Criteria			Compliant	Credits available	Credits achieved	
All timbor course	Percentage of available responsible sourcing d in accordance with the UK Govt's Timber Pro		25.00% Yes	3	1	
All timber source	d in accordance with the OK GOVES Timber Pro	ocurement Policy.	res			
				% element		
			Element present	responsibly	Responsible	
ilding elements			/ assessed	sourced	sourcing points	
		Structural Frame	Yes	100%	1.00	
	Hanna flanco finalestica	Ground floor	Yes	100%	1.00	
	Upper floors (including s	separating floors) Roof	Yes Yes	100% 100%	1.00	
		External walls	Yes	100%	1.00	
		Internal walls	Yes	100%	1.00	
					1.00	
	Foundat	tion/substructure	Yes	100%		
		Fittings	Yes	100%	1.00	
		Fittings	Yes	100%	1.00	
		Fittings	Yes	100%	1.00	
		Fittings Hard landscaping	Yes	100%	1.00	
	l Total BREEAM credits achieved	Fittings Hard landscaping 1	Yes	100%	1.00	
	Total BREEAM credits achieved Total contribution to overall building score	Fittings Hard landscaping 1 0.96%	Yes	100%	1.00	
	Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	Fittings Hard landscaping 1 0.96%	Yes	100%	1.00	
sessor comments/n	Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	Fittings Hard landscaping 1 0.96%	Yes	100%	1.00	
sessor comments/n	Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	Fittings Hard landscaping 1 0.96%	Yes	100%	1.00	
sessor comments/n	Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	Fittings Hard landscaping 1 0.96%	Yes	100%	1.00	
sessor comments/n	Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	Fittings Hard landscaping 1 0.96%	Yes	100%	1.00	
sessor comments/n	Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	Fittings Hard landscaping 1 0.96%	Yes	100%	1.00	
sessor comments/n	Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	Fittings Hard landscaping 1 0.96%	Yes	100%	1.00	
sessor comments/n	Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	Fittings Hard landscaping 1 0.96%	Yes	100%	1.00	



Mat04 Insulation

ato4 insulation					
No. of BREEAM credits available	2		Available contribu	tion to overall score	1.92%
No. of BREEAM innovation credits available				tandards applicable	No
				tanda do applicable	
sessment Criteria		Compliant?	Credits available	Credits achieved	
	ct - insulation index	2.00	1	1	
Responsible sourcing - % of insulating materials r	esponsibly sourced	100%	1	1	
Total BREEAM credits achieved	2				
Total contribution to overall building score					
Total BREEAM innovation credits achieved					
Minimum standard(s) leve	-				
(-)					
sessor comments/notes:					
at05 Designing for Robustness					
No. of BREEAM credits available				tion to overall score	0.96%
				tion to overall score tandards applicable	0.96% N/A
No. of BREEAM credits available					
No. of BREEAM credits available		Compliant?	Minimum s	tandards applicable	
No. of BREEAM credits available No. of BREEAM innovation credits available sessment Criteria	0	Compliant?	Minimum s Credits available	tandards applicable Credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available	0	Compliant? Yes	Minimum s	tandards applicable	
No. of BREEAM credits available No. of BREEAM innovation credits available sessment Criteria	e 0 rable building areas	-	Minimum s Credits available	tandards applicable Credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available sessment Criteria Suitable durability/protection measures to vulner	e 0 rable building areas	-	Minimum s Credits available	tandards applicable Credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available sessment Criteria Suitable durability/protection measures to vulner Total BREEAM credits achieved Total contribution to overall building score	e 0 rable building areas 1 1 0.96%	-	Minimum s Credits available	tandards applicable Credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available sessment Criteria Suitable durability/protection measures to vulner Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved	rable building areas 1 1 0.96% 1 N/A	-	Minimum s Credits available	tandards applicable Credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available sessment Criteria Suitable durability/protection measures to vulner Total BREEAM credits achieved Total contribution to overall building score	rable building areas 1 1 0.96% 1 N/A	-	Minimum s Credits available	tandards applicable Credits achieved	
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No. of BREEAM credits available No. of BREEAM innovation credits available sessment Criteria Suitable durability/protection measures to vulner Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) leve	rable building areas 1 1 0.96% 1 N/A	-	Minimum s Credits available	tandards applicable Credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available sessment Criteria Suitable durability/protection measures to vulner Total BREEAM credits achieved Total BREEAM innovation credits achieved	rable building areas 1 1 0.96% 1 N/A	-	Minimum s Credits available	tandards applicable Credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available sessment Criteria Suitable durability/protection measures to vulner Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) leve	rable building areas 1 1 0.96% 1 N/A	-	Minimum s Credits available	tandards applicable Credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available sessment Criteria Suitable durability/protection measures to vulner Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) leve	rable building areas 1 1 0.96% 1 N/A	-	Minimum s Credits available	tandards applicable Credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available sessment Criteria Suitable durability/protection measures to vulner Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) leve	rable building areas 1 1 0.96% 1 N/A	-	Minimum s Credits available	tandards applicable Credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available sessment Criteria Suitable durability/protection measures to vulner Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) leve	rable building areas 1 1 0.96% 1 N/A	-	Minimum s Credits available	tandards applicable Credits achieved	



WASTE **Wst01 Construction Waste Management** No. of BREEAM credits available 5.00% Available contribution to overall score No. of BREEAM innovation credits available Minimum standards applicable Assessment Criteria Compliant? Compliant Site Waste Management Plan Yes Compliant Pre-demolition audit N/A Key Performance Indicators - Construction Waste Measure/units for the data being reported tonnes Non-hazardous construction waste (excluding demolition/excavation) 3.20 tonnes/100m2 Total non-hazardous construction waste generated 17600.00 tonnes Non-hazardous non-demolition const. waste diverted from landfill 95.00% 16720.00 Total non-hazardous non-demolition const. waste diverted from landfill tonnes Total non-hazardous demolition waste generated Indicator Not Applicable Non-hazardous demolition waste diverted from landfill Indicator Not Applicable Total non-hazardous demolition waste to disposal Indicator Not Applicable Material for reuse tonnes Material for recycling tonnes Material for energy recovery tonnes Hazardous waste to disposal tonnes Total BREEAM credits achieved Total contribution to overall building score 5.00% Total BREEAM innovation credits achieved 0 Minimum standard(s) level Outstanding level Assessor comments/notes:

Wst02 Recycled Aggregates

No. of BREEAM credits available 1 No. of SREEAM innovation credits available 1 No. of SREEAM innovation credits available 1 Total % of high-grade aggregate that is recycled/secondary aggregate - by application Structural frame Floor slabs including ground floor slabs - Structural frame Structural frame Structural frame Structural frame Pipe bedding Sulfand for slabs - Structural frame Structural frame Structural frame Structural frame Pipe bedding Sulfand for slabs - Pipe Bedding Sulfand fo		1		Available contribution to overall score	1.25%
Sessment Criteria Total % of high-grade aggregate that is recycled/secondary aggregate Total % of high-grade aggregate that is recycled/secondary aggregate by application Structural frame Floor slabs including ground floor slabs Eltumen/hydraulically bound base, binder and surface courses Occrete road surface Pipe bedding Pupe Pupe bedding Pupe Pupe bedding Pup Pup Pup bedding Pup Pup Pup bedding Pup Pup Pup bedding Pup Pup Pup Pup bedding Pup Pup Pup Pup bedding Pup					
Total % of high-grade aggregate that is recycled/secondary aggregate 25% of high-grade aggregate that is recycled/secondary aggregate - by application Structural frame Floor slabs including ground floor slabs Bitumen/hydraulically bound base, binder and surface course Concrete road surface Concrete road surface Concrete road surface Floor slabs including groundations Building foundations Granular fill and capping Building foundations Gravel landscaping Total BREEAM credits achieved 1 Total Contribution to overall building score Total BREEAM innovation credits achieved No. of BREEAM innovation credits achieved No. of BREEAM innovation credits available No. of BREEAM innovation credits achieved Total BREEAM credits achieved Total BREEAM credits achieved No. of BREEAM innovation credits achieved No. of BREEA	NO. OF BREEAST HITTOVALION CITCUITS AVAILABLE	1		iviiiiiiuiii standards applicable	140
Total % of high-grade aggregate that is recycled/secondary aggregate 25% of high-grade aggregate that is recycled/secondary aggregate - by application Structural frame Floor slabs including ground floor slabs Bitumen/hydraulically bound base, binder and surface courses Concrete road surface Concrete road surface Concrete road surface Recycled/secondary aggregate - by application Structural frame Building foundations Granular fill and capping Building foundations Gravel landscaping N/A N/A N/A N/A Total BREEAM credits achieved 1 Total contribution to overall building score Total BREEAM innovation credits achieved N/A No. of BREEAM innovation credits available No. of BREEAM innovation credits available No. of BREEAM innovation credits available Segregation and storage of operational recyclable waste volumes Static waste compactor(s) or baler(s) Vessel(s) for composting suitable organic waste Total BREEAM innovation to overall building score Static waste compactor(s) or baler(s) Vessel(s) for composting suitable organic waste Total BREEAM innovation to overall building score 1.25% Total BREEAM innovation credits achieved N/A Minimum standard(s) level Outstanding level Outstanding level					
of high-grade aggregate that is recycled/secondary aggregate - by application Structural frame Floor slabs including ground floor slabs Bitumen/hydraulically bound base, binder and surface courses Concrete road surfaces Pipe bedding Pipe bedding Graular fill and capping N/A Building foundations Granular fill and capping N/A Total BREEAM credits achieved 1 Total contribution to overall building score 1.25% Total BREEAM innovation credits achieved N/A Minimum standard(s) level N/A Total BREEAM innovation credits achieved Segregation and storage of operational recyclable waste volumes Static waste compactor(s) or bales(s) Vessel(s) for composting suitable organic waste Total BREEAM innovation credits achieved 1 Total contribution to overall building score 1.25% No. of BREEAM credits available Total BREEAM innovation credits achieved 1 Total BREEAM credits achieved 1 Total BREEAM credits achieved 1 Total BREEAM credits achieved N/A Minimum standard(s) level Outstanding level Outstanding level Outstanding level		andary aggregate		٦	
Floor slabs including ground floor slabs 25% Bitumen/hydraulically bound base, binder and surface courses 70% Concrete road surfaces 97% Pipe bedding M/A Building foundations Gravel landscaping N/A Total BREEAM credits achieved 1 Total contribution to overall building score 1.25% Total BREEAM innovation credits achieved 0 Mirimum standard(s) level N/A essor comments/notes: No. of BREEAM credits available 1 No. of BREEAM innovation credits available 0 Mirimum standard(s) level N/A Segregation and storage of operational recyclable waste volumes Static waste compactor(s) or baler(s) Vessel(s) for composting suitable organic waste Total BREEAM credits achieved 1 Total BREEAM credits achieved N/A Minimum standard(s) level Outstanding level	rotal % of flight-grade aggregate that is recycled/seco	ondary aggregate	25%	J	
Floor slabs including ground floor slabs Bitumen/hydraulically bound base, binder and surface course Pipe bedding Building foundations Granular fill and capping Granular fill and capping Granular fill and capping Total BREEAM credits achieved 1 Total contribution to overall building score N/A Total BREEAM credits achieved Minimum standard(s) level N/A Posser comments/notes: 1.25% No. of BREEAM credits available No. of BREEAM credits available No. of BREEAM innovation credits available No. of BREEAM credits available No. of BREEAM innovation credits achieved Segregation and storage of operational recyclable waste volumes Static waste compactor(s) or baler(s) Vessel(s) for composting suitable organic waste N/A N/A Total BREEAM credits achieved Total contribution to overall building score 1.25% Total BREEAM innovation credits achieved N/A Minimum standard(s) level Outstanding level	, , , , , , , , , , , , , , , , , , , ,			_	
Bitumen/hydraulically bound base, binder and surface courses Concrete road surfaces Pipe bedding Building foundations Granular fill and capping N/A N/A Total BREEAM credits achieved Total contribution to overall building score Minimum standard(s) level N/A No. of BREEAM innovation credits achieved N/A No. of BREEAM innovation credits available No. of BREEAM innovation credits available Segregation and storage of operational recyclable waste volumes Static waste compactor(s) or baler(s) Vessel(s) for composting suitable organic waste Total BREEAM credits achieved Total BREEAM credits available organic waste Total BREEAM credits available organic waste Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Ves Total BREEAM innovation credits achieved Total contribution to overall building score 1.25% Total BREEAM innovation credits achieved N/A Minimum standard(s) level Outstanding level Outstanding level		-		-	
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Total contribution to overall building score Total BREEAM innovation credits achieved No. of BREEAM credits available No. of BREEAM innovation credits available No. of BREEAM innovation credits available Segregation and storage of operational recyclable waste volumes Static waste compactor(s) or baler(s) Vessel(s) for composting suitable organic waste Total BREEAM credits achieved Total Contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level Outstanding level Outstanding level]	
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Total BREEAM innovation credits achieved Minimum standard(s) level **Resor comments/notes:** **No. of BREEAM credits available** No. of BREEAM credits available** No. of BREEAM innovation credits available** No. of BREEAM innovation credits available** Segregation and storage of operational recyclable waste volumes Static waste compactor(s) or baler(s) Vessel(s) for composting suitable organic waste** **Total BREEAM credits achieved** Total contribution to overall building score** Total BREEAM innovation credits achieved N/A Minimum standard(s) level** Minimum standard(s) level** Outstanding level** **Outstanding level**					
essor comments/notes: to3 Operational Waste	-				
No. of BREEAM credits available No. of BREEAM credits available No. of BREEAM innovation credits available Segregation and storage of operational recyclable waste volumes Static waste compactor(s) or baler(s) Vessel(s) for composting suitable organic waste Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level Outstanding level		N/A			
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No. of BREEAM credits available No. of BREEAM innovation credits available No. of BREEAM innovation credits available No. of BREEAM innovation credits available Compliant? Credits available Credits achieved Segregation and storage of operational recyclable waste volumes Static waste compactor(s) or baler(s) Vessel(s) for composting suitable organic waste Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level Outstanding level					
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Segregation and storage of operational recyclable waste volumes Static waste compactor(s) or baler(s) Vessel(s) for composting suitable organic waste Total BREEAM credits achieved Total Contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level Credits available Yes 1 1 1 Total N/A N/A N/A Outstanding level	·				4.25%
Segregation and storage of operational recyclable waste volumes Static waste compactor(s) or baler(s) Vessel(s) for composting suitable organic waste Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level Outstanding level	No. of BREEAM credits available				
Segregation and storage of operational recyclable waste volumes Static waste compactor(s) or baler(s) Vessel(s) for composting suitable organic waste Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level Outstanding level	No. of BREEAM credits available				
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Vessel(s) for composting suitable organic waste Total BREEAM credits achieved 1 Total contribution to overall building score 1.25% Total BREEAM innovation credits achieved N/A Minimum standard(s) level Outstanding level	No. of BREEAM credits available No. of BREEAM innovation credits available sessment Criteria	0		Minimum standards applicable Credits available Credits achieved	
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Minimum standard(s) level Outstanding level	No. of BREEAM credits available No. of BREEAM innovation credits available sessment Criteria Segregation and storage of operational recyclable Static waste compac Vessel(s) for composting suitab Total BREEAM credits achieved	0 le waste volumes stor(s) or baler(s) ble organic waste	Yes N/A	Minimum standards applicable Credits available Credits achieved	
	No. of BREEAM credits available No. of BREEAM innovation credits available sessment Criteria Segregation and storage of operational recyclable Static waste compactor Vessel(s) for composting suitab Total BREEAM credits achieved Total contribution to overall building score	0 le waste volumes stor(s) or baler(s) ble organic waste 1 1.25%	Yes N/A	Minimum standards applicable Credits available Credits achieved	
sessor comments/notes:	No. of BREEAM credits available No. of BREEAM innovation credits available sessment Criteria Segregation and storage of operational recyclable Static waste compactor Vessel(s) for composting suitab Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved	0 le waste volumes stor(s) or baler(s) ole organic waste 1 1.25% N/A	Yes N/A	Minimum standards applicable Credits available Credits achieved	
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Wst04 Speculative Floor and Ceiling Finishes

Assessment Issue Not Applicable

	No. of BREEAM credits available	N/A		Available contribut	ion to overall score	N/A
	No. of BREEAM innovation credits available	N/A		Minimum st	andards applicable	N/A
Assessment Criteria			Compliant?	Credits available	Credits achieved	
Hease select						
	Total BREEAM credits achieved	N/A				
	Total contribution to overall building score	N/A				
	Total BREEAM innovation credits achieved	N/A				
	Minimum standard(s) level	N/A				
Assessor comments/n	otor					
Assessor comments/11	otes.					
LAND USE & ECOL	OGY					
LE01 Site Selection						
	No. of BREEAM credits available	2			ion to overall score	2.00%
	No. of BREEAM innovation credits available	0		Minimum ct	واطمه والمرمون والمرامون	
		· ·		IVIIIIIIIIIII SI	andards applicable	No
		·		IVIIIIIIIIIIIII SI	andards applicable	No
Accessment Criteria		Ū	Compliant?			No
Assessment Criteria			Compliant?	Credits available	Credits achieved	No
Assessment Criteria	Previous	ly developed land	No	Credits available	Credits achieved	No
Assessment Criteria	Previous			Credits available	Credits achieved	No
Assessment Criteria	Previous	ly developed land	No	Credits available	Credits achieved	No
Assessment Criteria	Previous Co Total BREEAM credits achieved	ly developed land ontaminated land	No	Credits available	Credits achieved	No
Assessment Criteria	Previous Co Total BREEAM credits achieved Total contribution to overall building score	ly developed land ontaminated land 0 0.00%	No	Credits available	Credits achieved	No
Assessment Criteria	Previous Co Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved	lly developed land ontaminated land 0 0.00% N/A	No	Credits available	Credits achieved	No
Assessment Criteria	Previous Co Total BREEAM credits achieved Total contribution to overall building score	ly developed land ontaminated land 0 0.00%	No	Credits available	Credits achieved	No
Assessment Criteria Assessor comments/n	Previous Co Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	lly developed land ontaminated land 0 0.00% N/A	No	Credits available	Credits achieved	No
	Previous Co Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	lly developed land ontaminated land 0 0.00% N/A	No	Credits available	Credits achieved	No
	Previous Co Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	lly developed land ontaminated land 0 0.00% N/A	No	Credits available	Credits achieved	No
	Previous Co Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	lly developed land ontaminated land 0 0.00% N/A	No	Credits available	Credits achieved	No
	Previous Co Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	lly developed land ontaminated land 0 0.00% N/A	No	Credits available	Credits achieved	No
	Previous Co Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	lly developed land ontaminated land 0 0.00% N/A	No	Credits available	Credits achieved	No
	Previous Co Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	lly developed land ontaminated land 0 0.00% N/A	No	Credits available	Credits achieved	No



LE02 Ecological Value of Site and Protection of Ecological Features

No. of BREEAM credits available	1		Available contribut	cion to overall score	1.00%
No. of BREEAM innovation credits available	0		Minimum st	tandards applicable	No
Ecological value of the la	and defined using	Please select			
	<u>_</u>				
Assessment Criteria		Compliant?	Credits available	Credits achieved	
	v ecological value	No	1	0	
Protection of existing e	cological features	No	1	Ü	
Total BREEAM credits achieved	0				
Total contribution to overall building score	0.00%				
Total BREEAM innovation credits achieved	N/A				
Minimum standard(s) level	N/A				
Assessor comments/notes:					
LE03 Mitigating Ecological Impact					
No. of BREEAM credits available	2		Available contribut	ion to overall score	2.009/
No. of BREEAM innovation credits available	0			tandards applicable	2.00% Yes
NO. OF BALLAIVI IIIIOVALIOTI CIEUIIS AVAIIADIE	0		IVIIIIIIIIIII S	tailualus applicable	163
Data sourced for calculating the change in ecol	logical value from	Suitably Qualifie	d Ecologist site surve	y of plant species	
Assessment Criteria					
Change in	n ecological value	-3.00	Plant species richn	ess	
Total DDFFAM and the arking of	1				
Total BREEAM credits achieved Total contribution to overall building score	1.00%				
Total BREEAM innovation credits achieved	1.00% N/A				
Minimum standard(s) level					
Triminani standard(s) iever					
Assessor comments/notes:					1
1					

04 Enhancing Site Ecology					
No. of BREEAM credits available	3		Available contribut	ion to overall score	3.00%
No. of BREEAM innovation credits available	0		Minimum st	candards applicable	No
sessment Criteria		Compliant?	Credits available	Credits achieved	
Suitably Qualified Ecologist ap	ppointment (SOF)	Yes	3	1	
Implementation of the Suitably Qualified Ecologists general r		Yes			
Change in ecological value (as confirmed by Suitably Q	ualified Ecologist)	-3	Plant species richn	ess	
Total BREEAM credits achieved	1				
Total contribution to overall building score	1.00%				
Total BREEAM innovation credits achieved	N/A				
Minimum standard(s) level	N/A				
	·				
sessor comments/notes:					
05 Long Term Impact on Biodiversity					
No. of BREEAM credits available	2		Available contribut	ion to overall score	2.00%
No. of BREEAM innovation credits available	0			andards applicable	No
sessment Criteria		Compliant?	Credits available	Credits achieved	
Mandatory criteria - SQE, legislation & landscape/habitat r		Yes	Credits available	Credits achieved 2	
Mandatory criteria - SQE, legislation & landscape/habitat r Additional criteria - Biodi	versity Champion	Yes Yes			
Mandatory criteria - SQE, legislation & landscape/habitat r Additional criteria - Biodi Additional criteria - Training	versity Champion of site workforce	Yes Yes Yes			
Mandatory criteria - SQE, legislation & landscape/habitat r Additional criteria - Biodi Additional criteria - Training Additional criteria - Monitor and record actions to protectio	versity Champion of site workforce n site biodiversity	Yes Yes Yes Yes			
Mandatory criteria - SQE, legislation & landscape/habitat r Additional criteria - Biodi Additional criteria - Training	versity Champion of site workforce n site biodiversity e habitat creation	Yes Yes Yes			
Mandatory criteria - SQE, legislation & landscape/habitat r Additional criteria - Biodi Additional criteria - Training Additional criteria - Monitor and record actions to protectio Additional criteria - New ecologically valuable	versity Champion of site workforce n site biodiversity e habitat creation	Yes Yes Yes Yes Yes Yes			
Mandatory criteria - SQE, legislation & landscape/habitat r Additional criteria - Biodi Additional criteria - Training Additional criteria - Monitor and record actions to protectio Additional criteria - New ecologically valuable Additional criteria - Construction programme minimises distu	versity Champion of site workforce n site biodiversity e habitat creation rbance to wildlife	Yes Yes Yes Yes Yes Yes			
Mandatory criteria - SQE, legislation & landscape/habitat r Additional criteria - Biodi Additional criteria - Training Additional criteria - Monitor and record actions to protectio Additional criteria - New ecologically valuable Additional criteria - Construction programme minimises distu Total BREEAM credits achieved	versity Champion of site workforce n site biodiversity e habitat creation rbance to wildlife	Yes Yes Yes Yes Yes Yes			
Mandatory criteria - SQE, legislation & landscape/habitat r Additional criteria - Biodi Additional criteria - Training Additional criteria - Monitor and record actions to protectio Additional criteria - New ecologically valuable Additional criteria - Construction programme minimises distu Total BREEAM credits achieved	versity Champion of site workforce n site biodiversity e habitat creation rbance to wildlife	Yes Yes Yes Yes Yes Yes			
Mandatory criteria - SQE, legislation & landscape/habitat r Additional criteria - Biodi Additional criteria - Training Additional criteria - Monitor and record actions to protectio Additional criteria - New ecologically valuable Additional criteria - Construction programme minimises distu Total BREEAM credits achieved	versity Champion of site workforce n site biodiversity e habitat creation rbance to wildlife	Yes Yes Yes Yes			
Mandatory criteria - SQE, legislation & landscape/habitat r Additional criteria - Biodi Additional criteria - Training Additional criteria - Monitor and record actions to protectio Additional criteria - New ecologically valuable Additional criteria - Construction programme minimises distu Total BREEAM credits achieved	versity Champion of site workforce n site biodiversity e habitat creation rbance to wildlife	Yes Yes Yes Yes			
Mandatory criteria - SQE, legislation & landscape/habitat r Additional criteria - Biodi Additional criteria - Training Additional criteria - Monitor and record actions to protectio Additional criteria - New ecologically valuable Additional criteria - Construction programme minimises distu Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	versity Champion of site workforce n site biodiversity e habitat creation rbance to wildlife 2 2.00% N/A	Yes Yes Yes Yes			
Mandatory criteria - SQE, legislation & landscape/habitat r Additional criteria - Biodi Additional criteria - Training Additional criteria - Monitor and record actions to protectio Additional criteria - New ecologically valuable Additional criteria - Construction programme minimises distu Total BREEAM credits achieved Total contribution to overall building score	versity Champion of site workforce n site biodiversity e habitat creation rbance to wildlife 2 2.00% N/A	Yes Yes Yes Yes			
Mandatory criteria - SQE, legislation & landscape/habitat r Additional criteria - Biodi Additional criteria - Training Additional criteria - Monitor and record actions to protectio Additional criteria - New ecologically valuable Additional criteria - Construction programme minimises distu Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	versity Champion of site workforce n site biodiversity e habitat creation rbance to wildlife 2 2.00% N/A	Yes Yes Yes Yes			
Mandatory criteria - SQE, legislation & landscape/habitat r Additional criteria - Biodi Additional criteria - Training Additional criteria - Monitor and record actions to protectio Additional criteria - New ecologically valuable Additional criteria - Construction programme minimises distu Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	versity Champion of site workforce n site biodiversity e habitat creation rbance to wildlife 2 2.00% N/A	Yes Yes Yes Yes			
Mandatory criteria - SQE, legislation & landscape/habitat r Additional criteria - Biodi Additional criteria - Training Additional criteria - Monitor and record actions to protectio Additional criteria - New ecologically valuable Additional criteria - Construction programme minimises distu Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	versity Champion of site workforce n site biodiversity e habitat creation rbance to wildlife 2 2.00% N/A	Yes Yes Yes Yes			
Mandatory criteria - SQE, legislation & landscape/habitat r Additional criteria - Biodi Additional criteria - Training Additional criteria - Monitor and record actions to protectio Additional criteria - New ecologically valuable Additional criteria - Construction programme minimises distu Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	versity Champion of site workforce n site biodiversity e habitat creation rbance to wildlife 2 2.00% N/A	Yes Yes Yes Yes			
Mandatory criteria - SQE, legislation & landscape/habitat r Additional criteria - Biodi Additional criteria - Training Additional criteria - Monitor and record actions to protectio Additional criteria - New ecologically valuable Additional criteria - Construction programme minimises distu Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	versity Champion of site workforce n site biodiversity e habitat creation rbance to wildlife 2 2.00% N/A	Yes Yes Yes Yes			
Mandatory criteria - SQE, legislation & landscape/habitat r Additional criteria - Biodi Additional criteria - Training Additional criteria - Monitor and record actions to protectio Additional criteria - New ecologically valuable Additional criteria - Construction programme minimises distu Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	versity Champion of site workforce n site biodiversity e habitat creation rbance to wildlife 2 2.00% N/A	Yes Yes Yes Yes			



POLLUTION Pol01 Impact of Refrigerants No. of BREEAM credits available 2.31% Available contribution to overall score No. of BREEAM innovation credits available Minimum standards applicable No Assessment Criteria Credits available Credits achieved Refrigerant containing systems installed in the assessed building? Yes Global Warming Potential of the specified refrigerant(s) 10 or less? No Total Direct Effect Life Cycle CO₂eq. emissions from the system kgCO2eq/kW coolth capacity Cooling/Heating capacity of the system BREEAM compliant refrigerant leak detection and containment No 0 Total BREEAM credits achieved Total contribution to overall building score 0.00% Total BREEAM innovation credits achieved N/A Minimum standard(s) level N/A Assessor comments/notes: Pol02 NO_x Emissions Available contribution to overall score No. of BREEAM credits available 2.31% No. of BREEAM innovation credits available Minimum standards applicable No Assessment Criteria NO_x emission level - space heating 0.00 mg/kWh NO_x emission level - cooling mg/kWh NOx emission level - water heating mg/kWh Does this building meet BREEAM's definition of a highly insulated building? Energy consumption: heating only or heating and cooling (as appropriate) kWh/m2/yr Total BREEAM credits achieved 3 Total contribution to overall building score 2.31% Total BREEAM innovation credits achieved N/A Minimum standard(s) level N/A Assessor comments/notes:

Pol03 Surface Water Run off

olos surface water kull off					
No. of BREEAM credits available	5		Available contribut	tion to overall score	3.85%
No. of BREEAM innovation credits available	0		Minimum st	tandards applicable	No
ssessment Criteria		Compliant?	Credits available	Credits achieved	
Annual prob	ability of flooding	Low	2	2	
	l Risk Assessment	Yes	2		
	un off – peak rate	Yes	1	1	
Surface water run off – volume, attenuation and/or	limiting discharge ercourse pollution	Yes Yes	1	1	
iviiiiiiisiiig wate	ercourse poliution	res	1	1	
Total BREEAM credits achieved	5				
Total contribution to overall building score	3.85%				
Total BREEAM innovation credits achieved	N/A				
Minimum standard(s) level	N/A				
ssessor comments/notes:					
ol04 Reduction of Night Time Light Pollution					
	1		Available contribut	tion to overall score	0.77%
No. of BREEAM credits available	1 0			tion to overall score tandards applicable	0.77% No
				tion to overall score tandards applicable	
No. of BREEAM credits available No. of BREEAM innovation credits available			Minimum si	tandards applicable	
No. of BREEAM credits available No. of BREEAM innovation credits available ssessment Criteria	0	Compliant?	Minimum st	tandards applicable Credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available ssessment Criteria		Compliant? Yes	Minimum si	tandards applicable	
No. of BREEAM credits available No. of BREEAM innovation credits available ssessment Criteria External ligh	0 Iting specification		Minimum st	tandards applicable Credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available ssessment Criteria External ligh Total BREEAM credits achieved	0 nting specification		Minimum st	tandards applicable Credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available ssessment Criteria External ligh Total BREEAM credits achieved Total contribution to overall building score	0 sting specification 1 0.77%		Minimum st	tandards applicable Credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available ssessment Criteria External ligh Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved	0 sting specification 1 0.77% N/A		Minimum st	tandards applicable Credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available ssessment Criteria External ligh Total BREEAM credits achieved Total contribution to overall building score	0 sting specification 1 0.77%		Minimum st	tandards applicable Credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available ssessment Criteria External ligh Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	0 sting specification 1 0.77% N/A		Minimum st	tandards applicable Credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available ssessment Criteria External ligh Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	0 sting specification 1 0.77% N/A		Minimum st	tandards applicable Credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available ssessment Criteria External ligh Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	0 sting specification 1 0.77% N/A		Minimum st	tandards applicable Credits achieved	
No. of BREEAM innovation credits available ssessment Criteria External ligh Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved	0 sting specification 1 0.77% N/A		Minimum st	tandards applicable Credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available ssessment Criteria External ligh Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	0 sting specification 1 0.77% N/A		Minimum st	tandards applicable Credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available ssessment Criteria External ligh Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	0 sting specification 1 0.77% N/A		Minimum st	tandards applicable Credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available ssessment Criteria External ligh Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	0 sting specification 1 0.77% N/A		Minimum st	tandards applicable Credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available ssessment Criteria External ligh Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	0 sting specification 1 0.77% N/A		Minimum st	tandards applicable Credits achieved	

Pol05 Noise Attenuation

	No. of BREEAM credits available	1		Available contribut	ion to overall score	0.77%
No. of B	REEAM innovation credits available	0		Minimum s	tandards applicable	No
sessment Criteria			Compliant	Credits available	Credits achieved	
	reas/buildings within 800m radius of t	the development	Yes	1	1	
	ssment and, if applicable, noise atten		Yes			
Total or	Total BREEAM credits achieved	1				
	ontribution to overall building score	0.77%				
I Otal Bi	REEAM innovation credits achieved Minimum standard(s) level	N/A				
	iviinimum standard(s) ievei	N/A				
ssessor comments/notes:						
NOVATION						
n01 Innovation						
N. (5)	DESAMA: 12 12 12 12 12 12 12 12 12 12 12 12 12	40				40.000/
No. of B	REEAM innovation credits available	10			tion to overall score	10.00%
				Minimum s	tandards applicable	No
				Minimum s	tandards applicable	No
		'				No
ssessment Criteria			Compliant?	Credits available	Credits achieved	No
ssessment Criteria		ble Procurement	Yes	Credits available	Credits achieved	No
ssessment Criteria	Man02 Responsible Const	ruction Practices	Yes Yes	Credits available 1 1	Credits achieved 1 1	No
ssessment Criteria	Man02 Responsible Const Hea0	ruction Practices 11 Visual Comfort	Yes Yes No	Credits available 1 1 1 1	Credits achieved 1 1 0	No
ssessment Criteria	Man02 Responsible Const Hea0 Ene01 Reduction o	ruction Practices 11 Visual Comfort of CO2 Emissions	Yes Yes No	Credits available 1 1 1 5	Credits achieved 1 1 0 0	No
ssessment Criteria	Man02 Responsible Const Hea0	ruction Practices 11 Visual Comfort of CO2 Emissions rbon Technology	Yes Yes No	Credits available 1 1 1 1	Credits achieved 1 1 0	No
ssessment Criteria	Man02 Responsible Const Hea0 Ene01 Reduction o Ene04 Low and Zero Cal Ene05 Energy Effici Wat01 Wat	ruction Practices 11 Visual Comfort of CO2 Emissions rbon Technology ient Cold Storage ter Consumption	Yes Yes No No No No N/A	Credits available	Credits achieved 1 1 0 0 0 N/A 0	No
ssessment Criteria	Man02 Responsible Const Hea0 Ene01 Reduction o Ene04 Low and Zero Cai Ene05 Energy Effici Wat01 Wat Mat01 Li	ruction Practices 11 Visual Comfort of CO2 Emissions rbon Technology ient Cold Storage ter Consumption ife Cycle Impacts	Yes Yes No No No No No No No N/A No	Credits available 1 1 1 5 1 N/A 1 1	Credits achieved 1 1 0 0 0 N/A 0 0	No
ssessment Criteria	Man02 Responsible Const Hea0 Ene01 Reduction o Ene04 Low and Zero Cai Ene05 Energy Effici Wat01 Wat Mat01 Li Mat03 Responsible Sour	ruction Practices 11 Visual Comfort of CO2 Emissions rbon Technology ient Cold Storage ter Consumption ife Cycle Impacts rcing of Materials	Yes Yes No No No No No No No N/A No No No	Credits available 1 1 1 5 1 N/A 1 1 1	Credits achieved 1 1 0 0 0 N/A 0 0 0	No
sessment Criteria	Man02 Responsible Const Hea0 Ene01 Reduction o Ene04 Low and Zero Car Ene05 Energy Effici Wat01 Wat Mat01 Li Mat03 Responsible Sour Wst01 Construction Was	ruction Practices 11 Visual Comfort of CO2 Emissions rbon Technology ient Cold Storage ter Consumption ife Cycle Impacts rcing of Materials ste Management	Yes Yes No No No No No No N/A No	Credits available 1 1 1 5 1 N/A 1 1 1 1 1	Credits achieved 1 1 0 0 0 0 N/A 0 0 0 0 0 0 0 0	No
sessment Criteria	Man02 Responsible Const Hea0 Ene01 Reduction o Ene04 Low and Zero Car Ene05 Energy Effici Wat01 Wat Mat01 Li Mat03 Responsible Sour Wst01 Construction Was	ruction Practices 11 Visual Comfort of CO2 Emissions rbon Technology ient Cold Storage ter Consumption ife Cycle Impacts rcing of Materials	Yes Yes No No No No No No No N/A No No No	Credits available 1 1 1 5 1 N/A 1 1 1	Credits achieved 1 1 0 0 0 N/A 0 0 0	No
ssessment Criteria	Man02 Responsible Const Hea0 Ene01 Reduction o Ene04 Low and Zero Car Ene05 Energy Effici Wat01 Wat Mat01 Li Mat03 Responsible Sour Wst01 Construction Was	ruction Practices 11 Visual Comfort of CO2 Emissions rbon Technology ient Cold Storage ter Consumption ife Cycle Impacts rcing of Materials ste Management ycled Aggregates	Yes Yes No	Credits available 1 1 1 5 1 N/A 1 1 1 1 1 1 1 1 1 1	Credits achieved 1 1 0 0 0 0 N/A 0 0 0 0 0 0 0 0	No
ssessment Criteria	Man02 Responsible Const Hea0 Ene01 Reduction o Ene04 Low and Zero Car Ene05 Energy Effici Wat01 Wat Mat01 Li Mat03 Responsible Sour Wst01 Construction Was	ruction Practices 11 Visual Comfort of CO2 Emissions rbon Technology ient Cold Storage ter Consumption ife Cycle Impacts rcing of Materials ste Management ycled Aggregates	Yes Yes No	Credits available 1 1 1 5 1 N/A 1 1 1 1 1	Credits achieved 1 1 0 0 0 0 N/A 0 0 0 0 0 0 0 0	No
	Man02 Responsible Const Hea0 Ene01 Reduction of Ene04 Low and Zero Cat Ene05 Energy Effici Wat01 Wat Mat01 Li Mat03 Responsible Sour Wst01 Construction Was	ruction Practices 11 Visual Comfort of CO2 Emissions rbon Technology ient Cold Storage ter Consumption ife Cycle Impacts rcing of Materials ste Management ycled Aggregates Number of 'api	Yes Yes No	Credits available 1 1 1 5 1 N/A 1 1 1 1 1 1 1 1 1 1	Credits achieved 1 1 0 0 0 0 N/A 0 0 0 0 0 0 0 0	No
Total Bl	Man02 Responsible Const Hea0 Ene01 Reduction of Ene04 Low and Zero Car Ene05 Energy Effici Wat01 Wat Mat01 Li Mat03 Responsible Sour Wst01 Construction Was Wst02 Recy	ruction Practices 11 Visual Comfort of CO2 Emissions rbon Technology ient Cold Storage ter Consumption ife Cycle Impacts rcing of Materials ste Management ycled Aggregates Number of 'ap	Yes Yes No	Credits available 1 1 1 5 1 N/A 1 1 1 1 1 1 1 1 1 1	Credits achieved 1 1 0 0 0 0 N/A 0 0 0 0 0 0 0 0	No
Total Bl	Man02 Responsible Const Hea0 Ene01 Reduction of Ene04 Low and Zero Cal Ene05 Energy Effici Wat01 Wat Mat01 Li Mat03 Responsible Sour Wst01 Construction Was Wst02 Recy	ruction Practices 11 Visual Comfort of CO2 Emissions rbon Technology ient Cold Storage ter Consumption ife Cycle Impacts rcing of Materials ste Management ycled Aggregates Number of 'ap 2 2.00%	Yes Yes No	Credits available 1 1 1 5 1 N/A 1 1 1 1 1 1 1 1 1 1	Credits achieved 1 1 0 0 0 0 N/A 0 0 0 0 0 0 0 0	No
Total Bl	Man02 Responsible Const Hea0 Ene01 Reduction of Ene04 Low and Zero Car Ene05 Energy Effici Wat01 Wat Mat01 Li Mat03 Responsible Sour Wst01 Construction Was Wst02 Recy	ruction Practices 11 Visual Comfort of CO2 Emissions rbon Technology ient Cold Storage ter Consumption ife Cycle Impacts rcing of Materials ste Management ycled Aggregates Number of 'ap	Yes Yes No	Credits available 1 1 1 5 1 N/A 1 1 1 1 1 1 1 1 1 1	Credits achieved 1 1 0 0 0 0 N/A 0 0 0 0 0 0 0 0	No
Total Bi Total co	Man02 Responsible Const Hea0 Ene01 Reduction of Ene04 Low and Zero Cal Ene05 Energy Effici Wat01 Wat Mat01 Li Mat03 Responsible Sour Wst01 Construction Was Wst02 Recy	ruction Practices 11 Visual Comfort of CO2 Emissions rbon Technology ient Cold Storage ter Consumption ife Cycle Impacts rcing of Materials ste Management ycled Aggregates Number of 'ap 2 2.00%	Yes Yes No	Credits available 1 1 1 5 1 N/A 1 1 1 1 1 1 1 1 1 1	Credits achieved 1 1 0 0 0 0 N/A 0 0 0 0 0 0 0 0	No
Total Bi Total co	Man02 Responsible Const Hea0 Ene01 Reduction of Ene04 Low and Zero Cal Ene05 Energy Effici Wat01 Wat Mat01 Li Mat03 Responsible Sour Wst01 Construction Was Wst02 Recy	ruction Practices 11 Visual Comfort of CO2 Emissions rbon Technology ient Cold Storage ter Consumption ife Cycle Impacts rcing of Materials ste Management ycled Aggregates Number of 'ap 2 2.00%	Yes Yes No	Credits available 1 1 1 5 1 N/A 1 1 1 1 1 1 1 1 1 1	Credits achieved 1 1 0 0 0 0 N/A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	No
Total Bi Total co	Man02 Responsible Const Hea0 Ene01 Reduction of Ene04 Low and Zero Cal Ene05 Energy Effici Wat01 Wat Mat01 Li Mat03 Responsible Sour Wst01 Construction Was Wst02 Recy	ruction Practices 11 Visual Comfort of CO2 Emissions rbon Technology ient Cold Storage ter Consumption ife Cycle Impacts rcing of Materials ste Management ycled Aggregates Number of 'ap 2 2.00%	Yes Yes No	Credits available 1 1 1 5 1 N/A 1 1 1 1 1 1 1 1 1 1	Credits achieved 1 1 0 0 0 0 N/A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	No
Total Bi Total co	Man02 Responsible Const Hea0 Ene01 Reduction of Ene04 Low and Zero Cal Ene05 Energy Effici Wat01 Wat Mat01 Li Mat03 Responsible Sour Wst01 Construction Was Wst02 Recy	ruction Practices 11 Visual Comfort of CO2 Emissions rbon Technology ient Cold Storage ter Consumption ife Cycle Impacts rcing of Materials ste Management ycled Aggregates Number of 'ap 2 2.00%	Yes Yes No	Credits available 1 1 1 5 1 N/A 1 1 1 1 1 1 1 1 1 1	Credits achieved 1 1 0 0 0 0 N/A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	No
Total Bi Total co	Man02 Responsible Const Hea0 Ene01 Reduction of Ene04 Low and Zero Cal Ene05 Energy Effici Wat01 Wat Mat01 Li Mat03 Responsible Sour Wst01 Construction Was Wst02 Recy	ruction Practices 11 Visual Comfort of CO2 Emissions rbon Technology ient Cold Storage ter Consumption ife Cycle Impacts rcing of Materials ste Management ycled Aggregates Number of 'ap 2 2.00%	Yes Yes No	Credits available 1 1 1 5 1 N/A 1 1 1 1 1 1 1 1 1 1	Credits achieved 1 1 0 0 0 0 N/A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	No
Total Bl	Man02 Responsible Const Hea0 Ene01 Reduction of Ene04 Low and Zero Cal Ene05 Energy Effici Wat01 Wat Mat01 Li Mat03 Responsible Sour Wst01 Construction Was Wst02 Recy	ruction Practices 11 Visual Comfort of CO2 Emissions rbon Technology ient Cold Storage ter Consumption ife Cycle Impacts rcing of Materials ste Management ycled Aggregates Number of 'ap 2 2.00%	Yes Yes No	Credits available 1 1 1 5 1 N/A 1 1 1 1 1 1 1 1 1 1	Credits achieved 1 1 0 0 0 0 N/A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	No
Total Bi Total co	Man02 Responsible Const Hea0 Ene01 Reduction of Ene04 Low and Zero Cal Ene05 Energy Effici Wat01 Wat Mat01 Li Mat03 Responsible Sour Wst01 Construction Was Wst02 Recy	ruction Practices 11 Visual Comfort of CO2 Emissions rbon Technology ient Cold Storage ter Consumption ife Cycle Impacts rcing of Materials ste Management ycled Aggregates Number of 'ap 2 2.00%	Yes Yes No	Credits available 1 1 1 5 1 N/A 1 1 1 1 1 1 1 1 1 1	Credits achieved 1 1 0 0 0 0 N/A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	No
Total Bi Total co	Man02 Responsible Const Hea0 Ene01 Reduction of Ene04 Low and Zero Cal Ene05 Energy Effici Wat01 Wat Mat01 Li Mat03 Responsible Sour Wst01 Construction Was Wst02 Recy	ruction Practices 11 Visual Comfort of CO2 Emissions rbon Technology ient Cold Storage ter Consumption ife Cycle Impacts rcing of Materials ste Management ycled Aggregates Number of 'ap 2 2.00%	Yes Yes No	Credits available 1 1 1 5 1 N/A 1 1 1 1 1 1 1 1 1 1	Credits achieved 1 1 0 0 0 0 N/A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	No
Total Bi Total co	Man02 Responsible Const Hea0 Ene01 Reduction of Ene04 Low and Zero Cal Ene05 Energy Effici Wat01 Wat Mat01 Li Mat03 Responsible Sour Wst01 Construction Was Wst02 Recy	ruction Practices 11 Visual Comfort of CO2 Emissions rbon Technology ient Cold Storage ter Consumption ife Cycle Impacts rcing of Materials ste Management ycled Aggregates Number of 'ap 2 2.00%	Yes Yes No	Credits available 1 1 1 5 1 N/A 1 1 1 1 1 1 1 1 1 1	Credits achieved 1 1 0 0 0 0 N/A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	No



BREEAM Bespoke 2011 New Construction Assessment Report: Assessment Validation References

Building name: Deeside Energy from Waste Facility

		Assessment		
Identifier	Assessment Evidence Reference	issue	Issue criteria No. and/or compliance note	Assessor's supporting notes/information
1	e.g. Project A, First floor plan, rev05, 1/10/10. Supplied by F Fitzgerald (23/3/11)	Wat 02	e.g. 1	e.g. Plan indicates location of water meter in plant room located in south-west
				corner of the building.
2	e.g. See identifier 1	Mat05	e.g. 1 and 2c	e.g. Plan indicates vehicle parking within 1m of north façade and the provision
				of barriers to protect façade.
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BREEAM Bespoke 2011 New Construction Assessment Report: Version Control

Version	Release Date	Description of changes/additions made to the BREEAM Assessment Scoring and Reporting Tool
2.91	15/08/2012	Man01: The shell only compliance option 2 has been made applicable to the construction and handover credits/criteria.
evious Versions 2.90	06/08/2012	Tra 03: In the Assessment Issue Scoring worksheet the note 'This issue is not applicable to the assessment of prison buildings occured for the Tra03 issue. This is not the case and the spreadsheet still allows the user to score under the issue, as per the requirements outlined in the technical manual. The tool has been amended so that this note no longer appears.
		The 'frozen panes' rows at the top of the Assessment Issue Scoring worksheet has been adjusted to fewer rows, as previously the large banner at the top was causing problems for users with smaller screens. Tra01: A note has been added, which appears for buildings located in a London Borough, giving advice about using Transport
2.80	15/06/2012	for London's Planning Information Database for sourcing the buildings Accessibility Index. Ene01: The EPR-BREEAM credit scale has been amended (as outlined in the Ene01 paper published BRE Global).
	<u> </u>	Ene01: A statement and drop-down list has been added asking the assessor to confirm that they have used BREEAM's Ene01 Compliance Checker website to verify the data used to determine the number of BREEAM Ene01 credits achieved.
		Assessment Details: "Other: Ambulance Trust building" has been added to the "Building Type (Sub-Group)" drop-down list of options.
2.70	03/05/2012	Ene09: Under versions 2.20 to 2.60 Ene09 was applicable to sub-building type "Multi-Residential - Supported Living Facility". This issue does not apply to the assessment of this multi-residential building type.
		EneO1: The EneO1 calculator has been amended to enable the assessment of multi-residential buildings that are modelled using SAP only. This follows on from the change in version 2.60 where the EneO1 calculator was adapted to enable the assessment of multi-residential buildings that used both SAP and SBEM for the purpose of Building Regulations compliance. As a result of this change the EneO1 calculator can now cater for multi-residential building types that have been modelled using either SAP only, SBEM only or a combination of both SAP and SBEM.
		PollO2: This issue has been updated to reflect that BREEAM does not require the assessment and benchmarking of NO _x emissions from cooling under the BREEAM 2011 PollO2 assessment issue, but does require the reporting of such emissions where present (as reported in the March 2012 Assessor Process Note, published 30/3/2012).
		Hea05: Under version 2.20 to 2.60 Hea05 was not showing the correct amount of credits for sub-building type "Multi-Residential - Supported Living Facility" (i.e. four credits).
		Assessment Details worksheet: The BREEAM Assessor's declaration statement has been amended so that the assessor's nam and assessor organisations name appear in the statement. The box asking the assessor to confirm the statement has been removed and replaced with a a space for the assessor's signature and date.
		Assessment Details Worksheet: A copyright and disclaimer statement has been added at the foot of the worksheet. Formatting: The colour scheme and font size has been amended to provide better contrast and legibility for users.
		Minor changes have been made for the purpose of BRE Global adaptation of the tool for use on bespoke projects.
2.60	24/12/2011	Ene01: The Ene01 calculator (contained within the Assessment Issue Scoring worksheet) and Assessment Details worksheet has been amended to facilitate the assessment of multi-residential buildings with self contained dwellings, where the self-contained dwellings are assessed using SAP. For these types of assessment the assessor will also need to use the Ene01 Supplementary Calculator for Multi-Residential Buildings Using SAP (provided separately). This calculator converts the releva SAP 2009 values in to the actual and notional energy demand, consumption and CO ₂ emission rate required for the Ene01 assessment.
2.50	12/12/2011	Ene01: Under previous versions of this tool the Ene01 Calculator would award 15 credits for an EPR $_{NC} \ge 0.90$ regardless of whether the building had achieved the minimum requirement for a 100% improvement on the Target Emission Rate (TER). Ir accordance with the BREEAM 2011 Technical Guide, 15 Ene01 credits can only be awarded where the building achieves an EPR $_{NC}$ of 0.90 and a 100% improvement on the TER i.e. the building is net zero carbon. Where a building achieves an EPR $_{NC}$ of 0.90 but does not achieve the 100% improvement a maximum of 14 credits are achievable. This bug has been fixed under version 2.50 of the tool. Note: This bug will only have affected projects that are aiming to achieve all 15 Ene01 credits, any assessed project achieving less than 15 credits is therefore unaffected by this change.
2.40	08/12/2011	Wst02 & 03: Under previous versions the cell confirming the available percentage contribution to overall score contained an error that resulted in the percentage contribution being under-stated by between 0.03% and 0.29% for some building types and overstated by 0.14% for other types (the actual percentage for any single type of building is dependent on the selection made in the Assessment Details worksheet). This calculating error is not present and does not affect the Waste section score and therefore overall building score and rating calculated in the Assessment Rating and KPIs worksheet.
2.30	06/12/2011	Hea02: The selection options for this issue have been adjusted so that compliance can be confirmed with criterion 1 only (air quality plan), which is necessary for achieving compliance with credits two and three (relating to VOCs), without having to re on awarding the first credit. This was the change intended in version 2.00 of the of the reporting tool for Hea02 (see below).
		Assessment References Worksheet: Some cells in the references worksheet are inadvertently locked in the previous version, preventing data entry. In this version they are unlocked.
2.20	14/11/2011	The building type 'Supported living facilities' has been added as a sub-group to the Multi-Residential building type option. It has also been added as an optional building type to the drop-down list used for the Tra03 and Tra04 issues. In addition the 'visual arts' credit and criteria within the Hea01 issue has been made applicable to this building sub-type.
		Ene09 Drying Space: When selecting the building type 'Other: Residential Institution' this issue is confirmed as 'Not Applicabl In previous versions of the tool this issue was applicable; it should only apply to multi-residential building types e.g. key work accommodation, halls of residence etc. and not non-dwelling residential building types such as hotels, hostels, training centre etc.
		Hea05: When selecting the building type 'Other: Residential Institution' two credits are made available for this assessment issue (in accordance with the criteria in the Technical Manual for 'Other Buildings'). In previous versions four credits were available; four credits should only be available for multi-residential building types, with only two credits available for residential buildings of a non-dwelling type e.g. hotels, hostels, training centres etc.
2.10	14/10/2011	Hea05 Acoustic Performance: In the previous version only two credits were made available where 'Education - All age range school' or 'Education - Academy school' building type was selected. This has been amended in this version and three credits are available for this building type.

07/10/2011 Version 2.0 of the Assessment and Reporting tool is compatible with Microsoft Excel 2003. Hea05 Acoustic Performance: In the previous version only two credits were made available where 'Education - Non-acute special educational (SEN) school' building type was selected. This has been amended in this version and three credits are now available for this building type. Man01 Sustainable Procurement: In some instances, where one credit had been achieved, the minimum standards for the excellent rating was not confirmed as complied with. This anomaly has been corrected Ene01 Reduction of CO₂ Emissions: As reported in Guidance Note 02 (2/09/11): A 25% and 40% improvement corresponds to an EPR on the CO₂ emissions scale of 0.215 and 0.294 respectively. However, version 1.1 of the BREEAM 2011 reporting tool confirms the Excellent and Outstanding minimum standards have been met only if an EPR of 0.22 or 0.30 is achieved. These levels actually correspond to a percentage improvement just above 25% and 40%. This anomaly has been rectified in version 2.0 of tool so that the Excellent and Outstanding minimum standards are met where the BER is 25% and 40% lower than the TER (2010 notional building) respectively. The Indoor Air Quality KPIs (in the Assessment Rating and KPIs worksheet) reference note 12. This reference is incorrect. A nex reference has been added (15) and the Indoor Air Quality KPIs now refer to this note. Wat01 Water Consumption: Where using the alternative method a drop-down list has been added to enable users to select the approach used to measure and assess the performance of a specified rainwater or greywater system. This has been done to ensure consistency with the Wat01 calculator. Hea02 Indoor Air Quality: In the previous version it was possible to confirm compliance with the VOC criteria, and award the available credits, without first having achieved compliance with criterion 1 (Indoor air quality). This anomaly has been ent Details: In v.1.00 the 'location type' field in the assessment details tab was a mandatory field, despite not being 29/07/2011 labelled as such. In v.1.10 it is not a mandatory field. Assessment Details: In v.1.10 the fields in the assessment details tab that are specific to a single building type, e.g. industrial and healthcare buildings, have been defined as non-mandatory where neither of those building types are selected. In such instances a single default option in the drop-down box will be available and should be selected. Man01 Sustainable Procurement: In v.1.10 functionality has been added to the Man01 issue to prevent the second credit (criteria 7-9) for appointing a BREEAM Accredited Professional being awarded where the first credit (criteria 4-6) has not been achieved. The third credit for appointing a BREEAM AP can be awarded independently of the first two credits and is therefore not affected by this change. Functionality has also been added to prevent the credit for data collation and aftercare (criteria 23 24) being awarded where the credit for commissioning (criteria 22) has not first been achieved. Man 05 Life Cycle Costing and Service Life Planning: In v.1.10 functionality has been added to the Man05 issue to prevent the second and third credits being awarded where the first credit has not been achieved Hea 03 Thermal Comfort: Functionality also added to Hea03 issue to prevent the second credit being awarded where the first credit has not been achieved. Assessment Details: User information notes have been added to the mandatory fields cells in the Assessor Details worksheet These notes provide guidance on which BREEAM issues are affected by the user selection and what to do where, at the start of assessment, information is not known. Hea03 Thermal Comfort issue: a bug has been fixed in the credits achieved cell. The bug was resulting in credits not being awarded where 'Yes' was selected by the user in the compliant cell. Ene07 Energy Efficient Laboratory System issue: A bug has been fixed in the credits available cell. The bug was resulting in a 'FALSE" statement in this cell for higher education building types where the laboratory floor space was less than 10% of the

Gross Floor Area and fume cupboards were confirmed as specified.

LEOS Long term impact on biodiversity issue: A bug has been fixed that enabled, for a given selection of responses to the additional criteria, a credit being awarded where non compliance with the mandatory criteria was confirmed.

Pol 02 NOx Emissions: In v.1.0 when "fully fitted" was selected in the assessment details for the project type and the building was confirmed as a highly insulated building, i.e. "HIB" was entered in the relevant cell, the available BREEAM credit was not awarded. This loss of functionality has been restored in v.1.10.

1.00 01/07/2011 BREEAM 2011 New Construction Go Live version.