

Hea 04 Thermal comfort

No. of BREEAM credits available	3	Available contribution to overall score	2.81%
No. of BREEAM innovation credits available	0	Minimum standards applicable	No

Assessment Criteria

	Compliant?	Credits available	Credits achieved
Will thermal modelling of the design be carried out?	Yes	1	1
Will the building design be adapted for a projected climate change scenario?	No	1	0
Will the modelling inform the development of a thermal zoning and control strategy?	Yes	1	1

Total BREEAM credits achieved	2
Total contribution to overall building score	1.88%
Total BREEAM innovation credits achieved	N/A
Minimum standard(s) level	N/A

Comments/notes:

MC confirmed that compliant thermal modelling will be carried out and will inform the development of the thermal zoning and control strategies.

Hea 05 Acoustic Performance

No. of BREEAM credits available	3	Available contribution to overall score	2.81%
No. of BREEAM innovation credits available	0	Minimum standards applicable	No

Assessment Criteria

	Credits	Credits available	Credits achieved
Will the building meet the appropriate acoustic performance standards and testing requirements for: a. Sound insulation b. Indoor ambient noise level c. Reverberation times?	3	3	3

Total BREEAM credits achieved	3
Total contribution to overall building score	2.81%
Total BREEAM innovation credits achieved	N/A
Minimum standard(s) level	N/A

Comments/notes:

SC confirmed that an SQA is appointed and that all BREEAM criteria will be achieved.

Hea 06 Safety and Security

No. of BREEAM credits available	2	Available contribution to overall score	1.88%
No. of BREEAM innovation credits available	0	Minimum standards applicable	No

Assessment Criteria

	Compliant?	Credits available	Credits achieved
Where external site areas are present, will safe access be designed for pedestrians and cyclists?	No	1	0
Will a suitably qualified security consultant be appointed and security considerations accounted for?	Yes	1	1

Total BREEAM credits achieved	1
Total contribution to overall building score	0.94%
Total BREEAM innovation credits achieved	N/A
Minimum standard(s) level	N/A

Comments/notes:

JM confirmed that the safe access criteria won't be met due to site constraints. PI and SC confirmed that the South Yorkshire Police Counter Terrorism Security Advisor has been consulted during RIBA stage 2 and that all consequent recommendations will be incorporated.

ENERGY

Ene 01 Reduction of energy use and carbon emissions

No. of BREEAM credits available	12	Available contribution to overall score	9.47%
No. of BREEAM innovation credits available	5	Minimum standards applicable	Yes

How do you wish to assess the number of BREEAM credits achieved for this issue? Define a target number of BREEAM credits achieved

Select the target number of BREEAM credits for the Ene01 issue: 6

Ene 01 Calculator

Country of the UK where the building is located		Confirm building regulation and version to be used:	
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New Construction (Fully fitted)

Building floor area		m2
Notional building heating and cooling energy demand		MJ/m2yr
Actual building heating and cooling energy demand		MJ/m2yr
Notional building primary energy consumption		kWh/m2yr
Actual building primary energy consumption		kWh/m2yr
Target emission rate (TER)		kgCO2/m2yr
Building emission rate (BER)		kgCO2/m2yr
Building emission rate improvement over TER		
Heating & cooling demand energy performance ratio (EPR _{ED})		
Primary consumption energy performance ratio (EPR _{PC})		
CO ₂ Energy performance ratio (EPR _{CO2})		
Overall building energy performance ratio (EPR _{NC})		

Where specified, please confirm the energy production from onsite or near site energy generation technologies

Equivalent % of the building's 'regulated' energy consumption generated by carbon neutral sources and used to meet energy demand from 'unregulated' building systems or processes?

Is the building designed to be 'carbon negative'?

If the building is defined as 'carbon negative' what is the total (modelled) renewable/carbon neutral energy generated and exported?

Total BREEAM credits achieved	6
Total contribution to overall building score	4.74%
Total BREEAM innovation credits achieved	0
Minimum standard(s) level	Excellent level

Comments/notes:

MC confirmed that 6 credits will be targeted but that this will need to be confirmed as design progresses.

Ene 02 Energy monitoring

No. of BREEAM credits available	1	Available contribution to overall score	0.79%
No. of BREEAM innovation credits available	0	Minimum standards applicable	Yes

Assessment criteria

	Compliant?	Credits available	Credits achieved
Will a BMS or sub-meters be specified to monitor energy use from major building services systems?	Yes	1	1
Will a BMS or sub-meters be specified to monitor energy use by tenant/building function areas?		N/A	N/A

Total BREEAM credits achieved	1
Total contribution to overall building score	0.79%
Total BREEAM innovation credits achieved	N/A
Minimum standard(s) level	Outstanding level

Comments/notes:

MC & SC confirmed that the relevant building services systems will be provided with compliant energy meters.

Ene 03 External lighting

No. of BREEAM credits available	1	Available contribution to overall score	0.79%
No. of BREEAM innovation credits available	0	Minimum standards applicable	No

Assessment criteria

Assessment criteria	Compliant?	Credits available	Credits achieved
Will external light fittings and controls be specified in accordance with the BREEAM criteria?	Yes	1	1

Total BREEAM credits achieved	1
Total contribution to overall building score	0.79%
Total BREEAM innovation credits achieved	N/A
Minimum standard(s) level	N/A

Comments/notes:

SC confirmed that the external light fittings and controls will be specified in accordance with the BREEAM criteria.

Ene 04 Low carbon design

No. of BREEAM credits available	3	Available contribution to overall score	2.37%
No. of BREEAM innovation credits available	0	Minimum standards applicable	No

Assessment criteria

	Compliant?	Credits available	Credits achieved
Will passive design measures be used in line with an analysis be carried out during concept design stage (RIBA stage 2 or equivalent)?	No	1	0
Will free cooling measures be implemented in the whole building in line with the passive design analysis?	No	1	0
Will a LZC technology be specified in line with a feasibility study carried out by the completion of the Concept Design stage (RIBA Stage 2 or equivalent)?	Yes	1	1

Total BREEAM credits achieved	1
Total contribution to overall building score	0.79%
Total BREEAM innovation credits achieved	N/A
Minimum standard(s) level	N/A

Comments/notes:

MC confirmed that a passive design analysis was not carried out at RIBA stage 2 but that a LZC feasibility study was and appropriate LZC technology will be specified as a result.

Ene 05 Energy efficient cold storage

Assessment issue not applicable

No. of BREEAM credits available	N/A	Available contribution to overall score	N/A
No. of BREEAM innovation credits available	N/A	Minimum standards applicable	N/A

Assessment criteria

	Compliant?	Credits available	Credits achieved
Will the refrigeration system be designed, installed & commissioned in accordance with BREEAM criteria?		N/A	N/A
Will the refrigeration system demonstrate a saving in indirect greenhouse gas emissions?		N/A	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

Comments/notes: