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Project delivery planning	_	П		T					
Prior to completion of the Concept Design, the project delivery stakeholders meet to identify and define for each key phase of project delivery: 1a: Roles 1b: Responsibilities 1c: Contributions. 2 Consider each one of the following items when defining roles, responsibilities and contributions for each key phase of the project: 2a: End user requirements 2b: Alms of the design and design strategy 2c: Particular installation and construction requirements or limitations 2d: Occupiers' budget and technical expertise in maintaining any proposed systems 2e: Maintainability and adaptability of the proposals 2f: Operational energy (see Ene Ol Reduction of energy use and carbon emissions) 2g: Requirements for the production of project and end user documentation 2h: Requirements for the production of project and end user documentation 2h: Requirements for commissioning, training and affercare support. Where the building occupants are not known, the list of considerations above still applies. The appropriate project delivery stakeholder considers each item, based on likely scenarios of building occupancy. 3 The project team demonstrates how the project delivery stakeholders' contributions and the consultation process outcomes influence the following: 3b: Project Execution Plan 3c: Communication Strategy 3c: Concept Design.	1	1			1	1			G&T /
Stakeholder consultation (interested parties). 4 Prior to completion of the Concept Design, the design team consult with all interested parties on matters that cover the minimum consultation content. 5 Demonstrate how the stakeholder contributions and consultation exercise outcomes influence the Initial Project Brief and Concept Design. 6 Prior to completion of the detailed design (RIBA Stage 4, Technical Design or equivalent), all interested parties give and receive consultation feedback. Additionally for Education, Healthcare, Law courts and Major transportation hub building types only: 7 An independent party carries out the consultation exercise. The Design Quality Indicator (DQI) and the Achieving Excellence Design Evaluation Toolkit (AEDET) could be used as methods to assess the design quality of buildings.	1	1			1	1			DP9 / F Commu
Prerequisite for BREEAM AP (Concept and Developed Design) 8 The project team, including the client, formally agree strategic performance targets early in the design process (with the support of the BREEAM AP where appointed).	-	-		-	-	-		-	
BREEAM AP (Concept Design) 9 Involve a BREEAM AP in the project at an appropriate time and level to: 9.a: Work with the project team, including the client, to consider the links between BREEAM issues and assist them in maximising the project's overall performance against BREEAM, from their appointment and throughout Concept Design. 9.b: Monitor progress against the performance targets agreed under criterion 8 throughout all stages after their appointment where decisions critically impact BREEAM performance. 9.c: Proactively identify risks and opportunities related to the achievement of the targets agreed under criterion 8. 9.d: Provide feedback to the project team as appropriate, to support them in taking corrective actions and achieving their agreed performance targets. 9.e: Monitor and, where relevant, coordinate the generation of appropriate evidence by the project team.	1	1			1	1			CBDSI
BREEAM AP (Developed Design) 10 Criteria 8 and 9 are achieved. 11 Involve the BREEAM AP in the project at an appropriate time and level to: 11.a: Work with the project team, including the client, to consider the links between BREEAM issues and to assist them in maximising the project's overall performance against BREEAM throughout Developed Design. 11.b: Monitor progress against the performance targets agreed under criterion 8 throughout all stages where decisions critically impact the specification and tendering process and the BREEAM performance. 11.c: Proactively identify risks and opportunities related to the achievement of the targets agreed under criterion 8. 11.d: Provide feedback to the project team as appropriate, to support them in taking corrective actions and achieving their agreed performance targets. 11.e: Monitor and, where relevant, coordinate the generation of appropriate evidence by the project team.	1	1			1	1			

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Credit Criteria Red - Minimum standards Green Highlight - Early stage credits	Credits available	Targeted	4warded	Not targeted	Credits available	Targeted	√warded	Not targeted	Key responsibility
Elemental LCC 1 A competent person carries out an outline, entire asset LCC plan at Process Stage 2 (equivalent to Concept Design - RIBA Stage 2) together with any design options appraisals in line with 'Standardised method of life cycle costing for construction procurement' PD 156865: 2008. 2 The elemental LCC plan: 2.a: Provides an indication of future replacement costs over a period of analysis as required by the client (e.g. 20, 30, 50 or 60 years); 2.b: Includes service life, maintenance and operation cost estimates. The study period should ideally be agreed by the client, in line with the design life expectancy of the building. However, where the life expectancy of the building is not yet formally agreed (due to being at very early design stages), the default design life of 60 years should be used for modelling purposes (in line with the UK default). 3 Demonstrate, using appropriate examples provided by the design team, how the elemental LCC plan has been used to influence building and systems design and specification to minimise life cycle costs and maximise critical value.	2	2		-	2	2			Alinea / All
Component level LCC options appraisal 4 A competent person develops a component level LCC options appraisal by the end of Process Stage 4 (equivalent to Technical Design - RIBA Stage 4) in line with PD 156865: 2008. The component level LCC includes (where present): 4.a: Envelope, e.g. cladding, windows, or roofing 4.b: Services, e.g. heat source, cooling source, or ceilings 4.d: External spaces, e.g. alternative hard landscaping, boundary protection. The Component level LCC option appraisal should review all of the above component types (where present). However, you do not need to consider every single example cited under each component; only a selection of those most likely to draw valued comparisons. This is to ensure that a wide range of options are considered and help focus the analysis on components which would benefit the most from appraisal. 5 Demonstrate, using appropriate examples provided by the design team, how the component level LCC options appraisal has been used to influence building and systems design and specification to minimise life cycle costs and maximise critical value.	1	1			1	1			Alinea / All
Capital cost reporting 6 Report the capital cost for the building in pounds per square metre of gross internal floor area (£k/ m²) as part of the submission to BRE.	1	1			1	1			GPE / Alinea
Prerequisite - Legally harvested and traded timber 1 All timber and timber-based products used during the construction process of the project are 'legally harvested and traded timber'	4				-	-			Contractor
Prerequisite - For Healthcare NHS buildings only: 2 To award any of the available credits for this issue, any party who at any stage manages the construction site (e.g. the principal contractor, the demolition contractor) operates an Environmental Management System (EMS) (see requirements of criterion 3).		÷		-	-	-			
Environmental management 3 All parties who at any stage manage the construction site (e.g. the principal contractor, the demolition contractor) operate an EMS covering their main operations. The EMS must: 3.a: Be third party certified, to ISO 14001: 2015, EMAS (EU Eco-Management and Audit Scheme) or equivalent standard; OR 3.b: In compliance with BS 8555: 2016 have: 3.b.i Appropriate structure 3.b.ii Appropriate structure 3.b.ii Reached implementation stage phase four 'implementation and operation of the environmental management system' 3.b.iii Completed defined phase audits one to four. 4 All parties who at any point manage the construction site (e.g. the principal contractor, the demolition contractor) implement best practice pollution prevention policies and procedures on site in accordance with Working at construction and demolition sites: PPG6, Pollution Prevention Guidelines.	1	1			1	1			Contractor
Prerequisite for the BREEAM AP credit 5 The client and the contractor formally agree performance targets.		·			-	-			

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Credit Criteria Red - Minimum standards Green Highlight - Early stage credits	Credits available	Targeted	Awarded	Not targeted	Credits available	Targeted	Awarded	Not targeted	Key responsibi
BREEAM AP (site) 6 Involve a BREEAM AP in the project at an appropriate time and level to: 6.a: Work with the project team, including the client, to consider the links between BREEAM issues and assist them in achieving and if possible going beyond the design intent, to maximise the project's performance against the agreed performance targets throughout the Construction, Handover and Close Out stages. 6.b: Monitor construction progress against the performance targets agreed under criterion 5 throughout all stages where decisions critically impact BREEAM performance. 6.c: Proactively identify risks and opportunities related to the procurement and construction process and the achievement of the targets agreed under criterion 5. 6.d: Provide feedback to the constructors and the project team as appropriate, to support them in taking corrective actions and achieving their agreed performance targets. 6.e: Monitor and, where relevant, coordinate the generation of appropriate evidence by the project team and the provision to the assessor.	1	1			1	1			CBDSP / GPE / Contractor
Responsible construction management One credit 7 Achieve items listed as "required for one credit" in table 4.1 in the BREEAM manual. Two credits 8 Achieve criterion 7. 9 Achieve six additional items in the table 4.1.	2	2			2	2			Contractor
Notitoring of construction site impacts 10 Assign responsibility to an individual for monitoring, recording and reporting energy use, water consumption and transportation data (where measured) resulting from all on-site construction processes (and dedicated off-site manufacturing) throughout the build programme. To ensure the robust collection of information, this individual must have the appropriate authority and responsibility to request and access the data required. Where appointed, the BREEAM AP could perform this role. First monitoring credit - Utility consumption Energy consumption 11 Achieve criterion 10. 12 Set targets for the site energy consumption in kWh (and where relevant, litres of fuel used) as a result of the use of construction plant, equipment (mobile and fixed) and site accommodation. 13 Monitor and record data for the energy consumption described in criterion 12. 14 Report the total carbon dioxide emissions (total kgCO/project value) from the construction process via BREEAM Projects (for the purposes of potential future BREEAM performance benchmarking). Water consumption 15 Achieve criterion 10. 16 Set targets for the potable water consumption (m³) arising from the use of construction plant, equipment (mobile and fixed) and site accommodation. 17 Monitor and record data for the potable water consumption described in criterion 16. 18 Use the collated data to report the total and water consumption described in criterion 16. 19 Achieve criterion 10. 20 Set targets for transportation of construction materials and waste 19 Achieve criterion 10. 20 Set targets for transportation movements and impacts resulting from delivery of the majority of construction materials from the point of supply to the building site, including any transport, intermediate storage and point of supply. Monitor as a minimum: 20 a.i Materials used in major building elements (i.e. those defined in BREEAM issue Mat 20). 20 a.ii foround works and landscaping materials. 20 b.t transportation of construction wa	2	2			2	2			Contractor
Commissioning - testing schedule and responsibilities 1 Prepare a schedule of commissioning and testing. The schedule identifies and includes a suitable timescale for commissioning and re-commissioning of all complex and non-complex building services and control systems and for testing and inspecting building fabric. 2 The schedule identifies the appropriate standards for all commissioning activities to be conducted, where applicable, in accordance with: 2 a: Current Building Regulations 2 b: BSRIA guidelines 2 c: CIBSE guidelines 2 c: CIBSE guidelines 2 c: CIBSE guidelines 2 c: CIBSE guidelines 3 c: CIBSE guidelines 4 c: CIBSE guidelines 5 c: CIBSE guidelines 5 c: CIBSE guidelines 5 c: CIBSE guidelines 6 c: CIBSE guidelines 7 c: CIBSE guidelines 8 c: CIBSE guidelines 9 c: CIBSE	1	1			1	1			CBDSP /GPE/Contractor

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n 04 Commissioning and	Commissioning - design and preparation 6 Achieve criteria 1 to 5. 7 During the design stage, the client or the principal contractor appoints an appropriate project team member (see criterion 4), provided they are not involved in the general installation works for the building services systems, with responsibility for: 7.a: Undertaking design reviews and giving advice on suitability for ease of commissioning. 7.b: Providing commissioning management input to construction programming and during installation stages. 7.c: Management of commissioning, performance testing and handover or post-handover stages. For buildings with complex building services and systems, this role needs to be carried out by a specialist commissioning manager	1	1	▼	Z	1	1	▼	z	CBDSP / Contractor
Ма	Testing and Inspecting building fabric 8 Achieve criteria 1 to 5. 9 Complete post-construction testing and inspection to quality-assure the integrity of the building fabric, including continuity of insulation, avoidance of thermal bridging and air leakage paths (this is through airtightness testing and a thermographic survey). A suitably qualified professional undertakes the survey and testing in accordance with the appropriate standard. 10 Rectify any defects identified during post-construction testing and inspection prior to building handover and close out. Any remedial work must meet the required performance characteristics for the building or element as defined at the design stage	1	1			1	1			GPE / Thermographic survey specialist /AHMM / Contractor
	Handover 11 Prior to handover, develop two building user guides (see Methodology) for the following users: 11.a: A non-technical user guide for distribution to the building occupiers. 11.b: A technical user guide for the premises facilities managers. A draft copy is developed and discussed with users first (where the building occupants are known) to ensure the guide is most appropriate and useful to potential users. 12 Prepare two training schedules timed appropriately around handover and proposed occupation plans for the following users: 12.a: A non-technical training schedule for the building occupiers. 12.b: A technical training schedule for the premises facilities managers.	1	1			1	1			Contractor / GPE/AHMM/ CBDSP
	Aftercare support 1 Provide aftercare support to the building occupiers through having in place operational infrastructure and resources. This includes as a minimum: 1.a: A meeting between the aftercare support available, including the content of the building occupier or management team (prior to initial occupation, or as soon as possible thereafter) to: 1.a.i Introduce the aftercare support available, including the content of the building user guide (where it exists) and training schedule. 1.a.ii Present key information on the building including the design intent and how to use the building to ensure it operates as efficiently and effectively as possible. 1.b: On-site facilities management training including: 1.b.i a walkabout of the building AND 1.b.ii introduction to and familiarisation with the building systems, their controls and how to operate them in accordance with the design intent and operational demands. 1.c: Provide initial aftercare support for at least the first month of building occupation, e.g. weekly attendance on-site, to support building users and management (the level of frequency will depend on the complexity of the building and building operations). 1.d: Provide longer term aftercare support for occupiers for at least the first 12 months from occupation, e.g. a helpline, nominated individual or other appropriate system to support building users and management. 2 Establish operational infrastructure and resources to coordinate the collection and monitoring of energy and water consumption data for a minimum of 12 months, once the building is substantially occupied. This facilitates analysis of discrepancies between actual and predicted performance, with a view to adjusting systems and user behaviours accordingly.	N/A	N/A		N/A	N/A	N/A		N/A	
Man 05 Aftercare	Commissioning - implementation 3 Complete the following commissioning activities over a minimum 12-month period, once the building becomes substantially occupied: 3.a: Complex systems: The specialist commissioning manager will: 3.a: I clentify changes made by the owner or operator that might have caused impaired or improved performance. 3.a: ii Test all building services under full load conditions, i.e. heating equipment in mid-winter, cooling and ventilation equipment in mid-summer and under part load conditions (spring and autumn). 3.a: iii Where applicable, carry out testing during periods of extreme (high or low) occupancy. 3.a.iv Interview building occupants (where they are affected by the complex services) to identify problems or concerns regarding the effectiveness of the systems. 3.a.v Indexoue monthly reports comparing sub-metered energy performance to the predicted one (see Ene 01) 3.a.vi Identify inefficiencies and areas in need of improvement. 3.a.vii Re-commission systems (following any work needed to serve revised loads), and incorporate any revisions in operating procedures into the operations and maintenance (O&M) manuals. 3.b: Simple systems (naturally ventilated): The external consultant, aftercare team or facilities manager will: 3.b.ii Identify deficiencies and areas in need of improvement. 3.b.ii identify deficiencies and areas in need of improvement. 3.b.iii Re-commission systems and incorporate any relevant revisions in operating procedures into the O&M manuals.	1	1		N/A	1	1		N/A	

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Post-occupancy evaluation (POE) The client or building occupier commits to carry out a POE exercise one year after the building is substantially occupied. This gains comprehensive in-use performance feedback (see criterion 5.b.v) and identifies gaps between design intent and in-use performance. The aim is to highlight any improvements or interventions that need to be made and to inform operational processes.	Ů				J				
An independent party carries out the POE covering: .a: A review of the design intent and construction process (review of design, procurement, construction and handover processes). .b: Feedback from a wide range of building users including facilities management on the design and environmental conditions of the building covering: .b.i Internal environmental conditions (light, noise, temperature, air quality) .b.i Control, operation and maintenance									
s.b.iii Facilities and amenities s.b.iv Access and layout s.b.v Energy and water consumption (see criterion 2 s.b.v Other relevant issues, where appropriate	N/A			N/A	N/A			N/A	
The independent party provides a report with lessons learned to the client and building occupiers. The client or building occupier commits funds to pay for the POE in advance. This requires an independent party to be appointed to carry out the POE as described in criterion 5. Evidence of the appointment of the independent party and schedule of									
responsibilities which fulfils the BREEAM criteria are acceptable to demonstrate compliance.									
Total - Manageme	nt: 19	19	0	0	19	19	0	0	
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Health & Wellbeing Control of glare from sunlight Identify areas at risk of glare using a glare control assessment. The glare control assessment also justifies any areas deemed not at risk of glare. 2 A glare control strategy designs out potential glare in all relevant building areas where risk has been identified. This should be achieved through building form and layout or building design measures. 3 The glare control strategy does not increase energy consumption used for lighting. This is achieved by: 5.a. Maximising daylight levels in all weather, cloudy or sunny AND 5.b. Ensuring the use or location of shading does not conflict with the operation of lighting control systems.			0 58%	N/A	19 N/A			O N/A	
Credit value Health & Wellbeing Control of glare from sunlight Identify areas at risk of glare using a glare control assessment. The glare control assessment also justifies any areas deemed not at risk of glare. A glare control strategy designs out potential glare in all relevant building areas where risk has been identified. This should be achieved through building form and layout or building design measures. The glare control strategy does not increase energy consumption used for lighting. This is achieved by: S.a. Maximising daylight levels in all weather, cloudy or sunny AND	ie:	0.5	0 58%			0.5			
Credit value Control of glare from sunlight Identify areas at risk of glare using a glare control assessment. The glare control assessment also justifies any areas deemed not at risk of glare. 2. A glare control strategy designs out potential glare in all relevant building areas where risk has been identified. This should be achieved through building form and layout or building design measures. 3. The glare control strategy does not increase energy consumption used for lighting. This is achieved by: 3.a. Maximising daylight levels in all weather, cloudy or sunny AND 3.b.: Ensuring the use or location of shading does not conflict with the operation of lighting control systems. Daylighting Wumber of credits available and criteria dependent on building type 4. Daylighting criteria have been met using either of the following options: 4. Daylighting criteria have been met using either of the following options: 4. Daylighting criteria have been met using either of the following options: 4. Daylighting criteria have been met using either of the following options: 4. Daylighting criteria have been met using either of the following options: 4. Daylighting criteria have been met using either of the following options: 4. Daylighting criteria have been met using either of the following options: 4. Daylighting criteria have been met using either of the following options: 4. Daylighting criteria have been met using either of the following options: 4. Daylighting criteria have been met using either of the following options: 4. Daylighting criteria have been met using either of the following options: 4. Daylighting criteria have been met using either of the following options: 4. Daylighting criteria have been met using either of the following options: 6. Daylighting criteria have been met using either of the following options: 6. Daylighting criteria have been met using either of the following options: 6. Daylighting criteria have been met using either of the following options: 6. Daylighting criteria have been met using	ie:	0.5	8%			0.5			
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Health & Wellbeing Control of glare from sunlight Il dentify areas at risk of glare using a glare control assessment. The glare control assessment also justifies any areas deemed not at risk of glare. 2 A glare control strategy designs out potential glare in all relevant building areas where risk has been identified. This should be achieved through building form and layout or building design measures. 3 The glare control strategy does not increase energy consumption used for lighting. This is achieved by: 3.5. Maximising daylight levels in all weather, cloudy or sunny AND 5.b.: Ensuring the use or location of shading does not conflict with the operation of lighting control systems. Daylighting Wumber of credits available and criteria dependent on building type 4 Daylighting criteria have been met using either of the following options: 4.5. The relevant building areas meet good practice daylight factors and other criteria as outlined in Table 5.1 and Table 5.2 20 R 4. The relevant building areas meet good practice average and minimum point daylight illuminance criteria as outlined in Table 5.3. Additional alternative route for healthcare building types only:	N/A	0.5	0 58%	N/A	N/A	0.5		N/A	
Health & Wellbeing Control of glare from sunlight Lidentify areas at risk of glare using a glare control assessment. The glare control assessment also justifies any areas deemed not at risk of glare. 2. A glare control strategy designs out potential glare in all relevant building areas where risk has been identified. This should be achieved through building form and layout or building design measures. 3. The glare control strategy does not increase energy consumption used for lighting. This is achieved by: 3. Maximising daylight levels in all weather, cloudy or sumy AND 3. Ensuring the use or location of shading does not conflict with the operation of lighting control systems. 3. Paylighting Control strategy are an expectation of shading does not conflict with the operation of lighting control systems. 4. The relevant building areas meet good practice daylight factors and other criteria as outlined in Table 5.1 and Table 5.2 3. The relevant building areas meet good practice average and minimum point daylight illuminance criteria as outlined in Table 5.3. 4. The relevant building areas meet good practice average and minimum point daylight factors in Table 5.4. 4. The relevant building areas meet the median daylight factors and minimum daylight factors in Table 5.4. 4. The relevant building areas meet the median daylight factors and minimum daylight factors in Table 5.4.	N/A	0.5	0 58%	N/A	N/A	0.5		N/A	
Health & Wellbeing Control of place from sunlight Identify areas at risk of glare using a glare control assessment. The glare control assessment also justifies any areas deemed not at risk of glare. 2 A glare control strategy designs out potential glare in all relevant building areas where risk has been identified. This should be achieved through building form and layout or building design measures. 3 The glare control strategy does not cincrease energy consumption used for lighting. This is achieved by: 3 The glare control strategy does not increase energy consumption used for lighting. This is achieved by: 3 The glare control strategy does not increase energy consumption used for lighting. This is achieved by: 3 The glare control strategy does not increase energy consumption used for lighting. This is achieved by: 3 The glare control strategy does not conflict with the operation of lighting control systems. 3 The glare control strategy does not conflict with the operation of lighting control systems. 3 The relevant building areas meet good practice daylight factors and other criteria as outlined in Table 5.1 and Table 5.2 3 The relevant building areas meet good practice daylight factors and minimum point daylight illuminance criteria as outlined in Table 5.3. 4 The relevant building areas meet good practice average and minimum daylight factors in Table 5.4. 2 The relevant building areas meet the median daylight factors and minimum daylight factors in Table 5.4.	N/A	0.5	0 58%	N/A	N/A	0.5		N/A	GPE/A

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Hea O1	Internal land external lighting in all relevant areas of the building is designed to provide illuminance (iux) levels and colouring rendering index in accordance with the SLL Code for Lighting 2012 and any other relevant industry standard. Internal lighting should be appropriate to the tasks understaken, accounting for building user concentration and comfort levels. 9 For areas where computer screens are regularly used, the lighting design complies with CIBSE Lighting Guide 73 sections 2.4, 2.13 to 2.15, 2.20, and 6.10 to 6.20. This gives recommendations highlighting: 9 £ Limits to the luminance of the luminance to avoid screen reflections. 9 £ Limits to the luminance of the luminance to avoid screen reflections. 9 £ Recommendations for direct lighting, celling lighting average wall illuminance, and average wall illuminance, and average wall illuminance. External lighting 10 All external lighting illuminance, and average wall illuminance and average wall illuminance. External lighting 10 All external lighting is covered within the construction zone is specified in accordance with BS 5489-12013 Code for the practice for the design of road lighting. Lighting of roads and public amenity areas and BS EN 12464-22014 Light and lighting of work places. Part 2: Outdoor work places. External lighting should provide illuminance levels that enable users to perform outdoor visual staks efficiently and accurately, especially during the night. 10 All external lighting is a respectively cliently expensed to a specified client separate from or mounted on the external building facade or roof), the criteria relating to external lightings on on apply and the credit can be awarded on the basis of compliance with criteria 8-9.c. 10 All external lightings is zowed to allow for occupant control. Zoning is in accordance with the criteria below for relevant areas present within the building: 10 All external lightings are specified (either separate from or mounted on the external lightings on the presentation and other buildi	1	1			1	1			Lighting designer
	Prerequisite - Indoor air quality (IAQ) plan 1 A site-specific indoor air quality plan has been produced and implemented in accordance with the guidance in Guidance Note GN06. The plan must be produced no later than the end of Concept Design. The objective of the plan is to facilitate a process that leads to design, specification and installation decisions and actions that minimise indoor air pollution during occupation of the building. The indoor air quality plan must consider the following: 1.a: Removal of contaminant sources: 1.b: Dilution and control of contaminant sources: 1.b: Dilution and control of contaminant sources: 1.c: Procedures for pre-occupancy flush out 1.d: Third party testing and analysis 1.e: Maintaining good indoor air quality in-use.	-	-				,			Contractor / Indoor air quality specialist
or air quality	Ventilation 2 The building has been designed to minimise the indoor concentration and recirculation of pollutants in the building as follows: 2.a: Provide fresh air into the building in accordance with the criteria of the relevant standard for ventilation 2.b: Ventilation pathways are designed to minimise the ingress and build-up of air pollutants inside the building 2.c: Where present, HVAC systems must incorporate suitable filtration to minimise external air pollution, as defined in BS EN 13779:2007 Annex A3. The specified filters should achieve a minimum Indoor Air Quality of IDA2 2.d: Areas of the building subject to large and unpredictable or variable occupancy patterns have carbon dioxide (CO2) or air quality sensors specified and: 2.d.i In mechanically ventilated buildings or spaces: sensors are linked to the mechanical ventilation system and provide demand-controlled ventilation to the space 2.d.ii In naturally ventilated buildings or spaces: sensors either have the ability to alert the building owner or manager when CO2 levels exceed the recommended set point, or are linked to controls with the ability to adjust the quantity of fresh air, i.e. automatic opening windows or roof vents 2.e: For naturally ventilated or mixed mode buildings, the design demonstrates that the ventilation strategy provides adequate cross flow of air to maintain the required thermal comfort conditions and ventilation rates in accordance with CIBSE AM10.	1			1	1			1	CBDSP/ AHMM
Hea 02 Indoc	Emissions from construction products One credit 3 Three out of the five product types meet the emission limits, testing requirements and any additional requirements listed in Table 5.11. Where wood-based products are not one of three selected product types, all wood-based products used for internal fixtures and fittings must be tested and classified as formaldehyde E1 class as a minimum. Two Credits 4 All of the product types listed meet the emission limits, testing requirements and any additional requirements listed in Table 5.11.	N/A	N/A		N/A	N/A	N/A		N/A	

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	Credit Criteria Red - Minimum standards Green Highlight - Early stage credits	Credits available	Targeted	Awarded	Not targeted	Credits available	Targeted	Awarded Not targeted	Key responsibility
	Post-construction indoor air quality measurement 5 The formaldehyde concentration in indoor air is measured post construction (but pre-occupancy) and does not exceed 100 Qg/m³ averaged over 30 minutes (World Health Organization guidelines for indoor air quality: Selected pollutants, 2010). 6 The formaldehyde sampling and analysis is performed in accordance with ISO 16000-214 and ISO 16000-3. 7 The total volatile organic compound (TVOC) concentration in indoor air is measured post construction (but pre-occupancy) and does not exceed 500 Qg/m³ over 8 hours. 8 The TVOC sampling and analysis is performed in accordance with ISO 16000-6 or ISO 16017-1. 9 Where levels are found to exceed these limits, the project team confirms the measures that have, or will be, undertaken in accordance with the IAQ plan, to reduce the TVOC and formaldehyde levels to within the above limits. 10 The measured concentration levels of formaldehyde (Qg/m³) and TVOC (Qg/m³) are reported, via the BREEAM Scoring and Reporting Tool.	N/A	N/A		N/A	N/A	N/A	N/A	
t t	Thermal modelling 1 Thermal modelling has been carried out using software in accordance with CIBSE AM11 Building Energy and Performance Modelling. 2 The software used to carry out the simulation at the detailed design stage provides full dynamic thermal analysis. For smaller and more basic building designs with less complex heating or cooling systems, an alternative less complex means of analysis may be appropriate (such methodologies must still be in accordance with CIBSE AM11). 3 The modelling demonstrates that: 3.a: For air-conditioned buildings, summer and winter operative temperature ranges in occupied spaces are in accordance with the criteria set out in CIBSE Guide A Environmental design, Table 1.5; or other appropriate industry standard (where this sets a higher or more appropriate requirement or level for the buildings: 3.b: For naturally ventilated buildings: 3.b: Winter operative temperature ranges in occupied spaces are in accordance with the criteria set out in CIBSE Guide A Environmental design, Table 1.5. Or other appropriate industry standard (where this sets a higher or more appropriate requirement or level for the building type) 3.b: If the building type) 4.For air-conditioned buildings, the PMV (predicted mean vote) and PPD (predicted percentage of dissatisfied) indices based on the above modelling are reported via the BREEAM assessment scoring and reporting tool.	1	1			1	1		CBDSP/AHMM
ea 04 Thermal comfort	Design for future thermal comfort 5 Criteria 1 to 4 are achieved. 6 The thermal modelling demonstrates that the relevant requirements set out in criterion 3 are achieved for a projected climate change environment 7 Where criterion 6 is not met, the project team demonstrates how the building has been adapted, or designed to be easily adapted in future using passive design solutions in order to subsequently meet the requirements under criterion 6 8 For air-conditioned buildings, the PMV and PPD indices based on the above modelling are reported via the BREEAM assessment scoring and reporting tool.	1	1			1	1		CBDSP/AHMM
Î	Thermal zoning and controls 9 Criteria 1 to 4 are achieved. 10 The thermal modelling analysis (criterial to 4) has informed the temperature control strategy for the building and its users. 11 The strategy for proposed heating or cooling systems demonstrates that it has addressed the following: 11.a: Zones within the building, and how the building services could efficiently and appropriately heat or cool these areas. For example consider the different requirements for the central core of a building compared with the external perimeter adjacent to the windows. 11.b: The degree of occupant control required for these zones. This is based on discussions with the end user (or alternatively building type or use specific design guidance, case studies, feedback) and considers: 11.b.ii Decupancy type, patterns and room functions (and therefore appropriate level of control required) 11.b.iii How the user is likely to operate or interact with the systems, e.g. are they likely to open windows, access thermostatic radiator valves (TRV) on radiators, change air-conditioning settings etc. 11.b.iv The user expectations (this may differ in the summer and winter) and degree of individual control (i.e. obtaining the balance between occupant preferences, for example some occupants like fresh air and others dislike draughts) 11.c. How the proposed systems will interact with each other (where there is more than one system) and how this may affect the thermal comfort of the building occupants 11.d. The need or otherwise for an accessible building user actuated manual override for any automatic systems.	N/A	N/A		N/A	N/A	N/A	N/A	
stic	Sound insulation The building meets the appropriate acoustic performance standards and testing requirements defined in the relevant table Insert project specific requirements!!!	N/A	N/A		N/A	N/A	N/A	N/A	
05 - Acoustic erformance	Indoor ambient noise level The building meets the appropriate acoustic performance standards and testing requirements defined in the relevant table Insert project specific requirements!!!	1	1			1	1		Acoustic consultant/AHM M
Hea 05 Perfo	Room acoustics The building meets the appropriate acoustic performance standards and testing requirements defined in the relevant table Insert project specific requirements!!!	N/A	N/A		N/A	N/A	N/A	N/A	

				1 ssessmer and Core			2 Retail Ass Shell ar	- sessment	:	llity
	Credit Criteria Red - Minimum standards Green Highlight - Early stage credits	Credits available	Targeted	Awarded	Not targeted	Credits available	Fargeted	4warded	Not targeted	Key responsibility
Hea 06 Security	Security of site and building 1.A Suitably Qualified Security Specialist (SQSS) conducts an evidence-based Security Needs Assessment (SNA) during or prior to Concept Design (RIBA Stage 2 or equivalent). The purpose of the SNA will be to identify attributes of the proposal, site and surroundings which may influence the approach to security for the development. 2. The SQSS develops a set of security controls and recommendations for incorporation into the proposals. Those controls and recommendations shall directly relate to the threats and assets identified in the preceding SNA. 3. The controls and recommendations shall be incorporated into proposals and implemented in the as-built development. Any deviation from those controls and recommendations shall be justified and agreed with the SQSS.	1	1			1	1	,	2	AHMM / Toren
7 Safe and healthy surroundings	Safe access Where external site areas form part of the assessed development the following apply: 1 Dedicated and safe cycle paths are provided from the site entrance to any cycle storage, and connect to off-site cycle paths where applicable. 2 Dedicated and safe footpaths are provided on and around the site providing suitable links for the following: 2 a: The site entrance to the building entrance, 2 b: Car parks (where present) to the building entrance, 2 b: Car parks (where present) to the building entrance, 2 b: Car parks (where present) to the position of the state of the s	1	1			1	1			AHMM / Landscape Architect /TPP
Hea 07	Outside space 7 There is an outside space providing building users with an external amenity area.	1	1			1	1			АНММ
	Total - Health & Wellbeing:	11	8	0	3	11	8	0	3	
	Credit value: Energy		0.	.73%			0.7	3%		
carbon emissions	Energy performance 1 Calculate an Energy Performance Ratio for New Construction (EPR NC). Compare the EPR NC achieved with the benchmarks in Table 6.1 of the manual and award the corresponding number of BREEAM credits This is done by using data from the BRUKL documents.	9	8		1	9	8		1	CBDSP/ AHMM
energy use and c	Prerequisite - Prediction of operational energy consumption 2 Prior to completion of the Concept Design, relevant members of the design team hold a preliminary design workshop focusing on operational energy performance.	-	-			-				CBDSP

				1 ssessmen nd Core	sessment Retail Assessment d Core Shell and Core					llity
	Credit Criteria Red - Minimum standards Green Highlight - Early stage credits	Credits available	Targeted	Awarded	Not targeted	Credits available	Targeted	Awarded	Not targeted	Key responsibility
Ene 01 Reduction of	Prediction of operational energy consumption 3 Undertake additional energy modelling during the design and post-construction stage to generate predicted operational energy consumption figures. 4 Report predicted energy consumption targets by end use, design assumptions and input data (with justifications). 5 Carry out a risk assessment to highlight any significant design, technical, and process risks that should be monitored and managed throughout the construction and commissioning process.	4	4			4	4			GPE/G&T
monitoring	Sub-metering of end-use categories 1 Install energy metering systems so that at least 90% of the estimated annual energy consumption of each fuel is assigned to the end-use categories 2 Meter the energy consumption in buildings according to the total useful floor area: 2.a: If the area is greater than 1,000 m², by end-use category with an appropriate energy monitoring and management system. 2.b: If the area is less than 1,000 m², use either: 2.b: an energy monitoring and management system or 2.b: is separate accessible energy sub-meters with pulsed or other open protocol communication outputs, for future connection to an energy monitoring and management system 3 Building users can identify the energy consuming end uses, for example through labelling or data outputs.	1	1			1	1			CBDSP
Ene O2 Energy n	Sub-metering of high energy load and tenancy areas 4 Monitor a significant majority of the energy supply with: 4.a: An accessible energy monitoring and management system for: 4.a: it enanted areas or 4.a: it elevant function areas or departments in single occupancy buildings. OR 4.b: Separate accessible energy sub-meters with pulsed or other open protocol communication outputs for future connection to an energy monitoring and management system for: 4.b: it enanted areas or 4.b: it relevant function areas or departments in single occupancy buildings. 5 Sub-meter per floor plate in large single occupancy or single-tenancy buildings with one homogeneous function, for example hotel bedrooms, offices.	1	1			1	1			CBDSP
Ene 03 External lighting	External lighting 1 No external lighting (which includes lighting on the building, at entrances and signs). OR 2 External light fittings within the construction zone with: 2.a: Average initial luminous efficacy of not less than 70 luminaire lumens per circuit Watt 2.b: Automatic control to prevent operation during daylight hours 2.c: Presence detection in areas of intermittent pedestrian traffic.	1	1			1	1			Lighting designer
ign	Passive design analysis 1 Achieve the first credit Hea 04 to demonstrate that the building design delivers appropriate thermal comfort levels in occupied spaces. 2 The project team analyses the proposed building design and development during Concept Design to identify opportunities for the implementation of passive design measures 3 Implement passive design measures to reduce the total heating, cooling, mechanical ventilation, lighting loads and energy consumption in line with the passive design analysis findings. 4 Quantify the reduced total energy demand and carbon dioxide (CO ₂) emissions resulting from the passive design measures.	1	1			1	1			CBDSP
ne 04 Low carbon design	Free cooling 5 Achieve the passive design analysis credit. 6 Include a free cooling analysis in the passive design analysis carried out under criterion 2. 7 Identify opportunities for the implementation of free cooling solutions. 8 The building is naturally ventilated or uses any combination of the free cooling strategies listed in Free cooling analysis.	1			1	1			1	

			Office As	1 sessment nd Core	:		ility			
	Credit Criteria Red - Minimum standards Green Highlight - Early stage credits	Credits available	fargeted	Awarded	Not targeted	Credits available	Fargeted	Awarded	Not targeted	Key responsibility
ш	Low and zero carbon technologies 9 An energy specialist completes a feasibility study by the end of Concept Design. 10 Establish the most appropriate recognised local (on-site or near-site) low or zero carbon (LZC) energy sources for the building or development, based on the feasibility study. 11 Specify local LZC technologies for the building or development in line with the feasibility study recommendations. 12 Quantify the reduced regulated carbon dioxide (CO ₂) emissions resulting from the feasibility study.	1	1	,	2	1	1			CBDSP
Energy efficient cold storage	Refrigeration energy consumption 1 Design, install and commission the refrigeration system: 1.a: In accordance with the Code of Conduct for carbon reduction in the refrigeration retail sector1 and BS EN 378-2:2016. 1.b: Using robust and tested refrigeration systems or components included on the Enhanced Capital Allowance (ECA) Energy Technology Product List (ETPL) or an equivalent list 2 Commission the refrigeration plant in compliance with the commissioning criteria in BREEAM issue Man 04	N/A	N/A		N/A	N/A	N/A		N/A	
Ene 05 Energ	Indirect greenhouse gas emissions 3 Achieve criteria 1 and 2. 4 Demonstrate a saving in indirect greenhouse gas emissions (CO2-eq) from the installed refrigeration system over the course of its operational life.	N/A	N/A		N/A	N/A	N/A		N/A	
transportation systems	Energy consumption 1 For specified lifts, escalators or moving walks (transportation types): 1.a: Analyse the transportation demand and usage patterns for the building to determine the optimum number and size of lifts, escalators or moving walks 1.b: Calculate the energy consumption in accordance with BS EN ISO 25745 Part 21 or Part 32 for one of the following: 1.b.i At least two types of system for each transportation type required OR 1.b.ii An arrangement of systems, for example for lift systems, hydraulic, traction, machine room-less lift (MRL) OR 1.b.iii A system strategy that is 'fit for purpose' 1.c: Consider the use of regenerative drives, subject to the requirements in Regenerative drives 1.d: Specify the transportation system with the lowest energy consumption.	1	1			1	1			CBDSP
Ene 06 Energy efficient transpo	Energy efficient features 2 Achieve criterion 1. One credit - Lifts 3 Specify the following three energy efficient features for each lift: 3.a: A standby condition for off-peak periods 3.b: The lift car lighting and display lighting provides an average luminous efficacy across all fittings in the car of > 70 luminaire lumens per circuit Watt 3.c: Use of a drive controller capable of variable-yoltage, and variable-frequency (VVVF) control of the drive motor. 4 Specify regenerative drives where their use is demonstrated to save energy. One credit - Escalators or moving walks 5 Specify at least one of the following for each escalator or moving walk: 5.a: A load-sensing device that synchronises motor output to passenger demand through a variable speed drive OR 5.b: A passenger-sensing device for automated operation (auto walk), so the escalator operates in auto start mode when there is no passenger demand.	2	2			1	1			CBDSP
ficient laboratory systems	Design specification 1 Engage with the client during the preparation of the initial project brief to determine occupant requirements and define laboratory performance criteria. Performance criteria will include, but not be limited to: 1.a: Description of purpose 1.b: Occupant or process activities 1.c: Containment requirements and standards 1.d: Interaction between systems 1.e: Flexibility and adaptability of laboratory facilities. 1.f: Any other specific requirements (for example, requirements relevant to ventilation, heating or cooling). 2 Size the services system equipment (including ventilation supply and extract) correctly 3 Demonstrate the minimised energy demand of the laboratory facilities resulting from the achievement of the defined design performance criteria. Laboratory containment devices and containment areas (criteria only applicable to buildings containing these facilities) 4 For ducted fume cupboards specified: 4.a: Demonstrate that the average design air flow rate is no greater than 0.16 m³/s per linear metre (internal width) of fume cupboard workspace 4.b: Measure the volume flow rate in the exhaust duct (at the boundary of the laboratory) to take account of reductions in (inward) volume flow rate from fume cupboard leakage 4.c: Demonstrate that a reduction in air flow does not compromise the defined performance criteria and does not increase the health and safety risk to future building occupants.	N/A	N/A		N/A	N/A	N/A		N/A	

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	•	Office As Shell ar		t		ail Assess hell and C		₽
Credit Criteria Red - Minimum standards Green Highlight - Early stage credits	redits available	argeted	Awarded	Vot targeted	redits available	argeted	Awarded Aot targeted	Key responsibility
Best practice energy efficient measures If the laboratory area accounts for at least 10% of the total building floor area:		-	q			F .	<u>4</u>	
5 Achieve criteria 1 to 4 (or criteria 1 to 3 where there are no ducted fume cupboards).								
6 Design, specify and install laboratory plant and systems to promote energy efficiency. Demonstrate compliance with items in Table 6.4. 6.a: Up to 2 credits: laboratory areas (see Definitions) account for at least 10% (but less than 25%) of the total building floor area								
OR 6.b: Up to 4 credits: laboratory areas account for 25% or more of the total building floor area.	N/A	N/A		N/A	N/A N	N/A	N/A	
7 Demonstrate by calculations or modelling that the chosen measures have a reasonably significant effect on the total energy consumption of the laboratory, i.e. 2% reduction or greater.								
8 Demonstrate that the energy efficient measures specified do not compromise the defined performance criteria, and do not increase the health and safety risk to future building occupants.								
Energy efficient equipment								
1 Identify the building's unregulated energy consuming loads. Estimate their contribution to the total annual unregulated energy consumption of the building, assuming a typical or standard specification.								
2 Identify the systems or processes that use a significant proportion of the total annual unregulated energy consumption of the building.								
3 Demonstrate a meaningful reduction in the total annual unregulated energy consumption of the building. Table 6.5 lists some examples of significant contributors to unregulated energy consumption, and the associated criteria. If additional significant contributors, not listed in the table, will be specified, the design team should justify how a meaningful reduction will be achieved for these contributors.	N/A	N/A		N/A	N/A N	N/A	N/A	
Total - Energy Credit value		20		2	21	0.67%	0 2	-
Transport								
During the feasibility and design stages, develop a travel plan based on a site-specific travel assessment or statement.								
2 The site-specific travel assessment or statement covers as a minimum: 2a: Existing travel patterns and opinions of existing building or site users towards cycling and walking, identifying constraints and opportunities, if relevant 2b: Travel patterns and transport impact of future building users 2c: Current local environment for walkers and cyclists (accounting for visitors who may be accompanied by young children) 2d: Reporting of the number and type of existing accessible amenities, see Table 7.1, within 500m of the site 2e: Disabled access (accounting for varying levels of disability and visual impairment) 2f: Calculation of the existing public transport Accessibility Index (AI), see Methodology 2g: Current facilities for cyclists 3 The travel plan includes proposals to increase or improve sustainable modes of transport and movement of people and goods during the building's operation and use, see Methodology. 4 If the occupier is known, involve them in the development of the travel plan. 5 Demonstrate that the travel plan will be implemented post construction and be supported by the building's management in operation.	2	2			2	2		TPP
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		(ssessmen and Core	t	F	Retail Ass Shell ar	sessment nd Core	sibility
	Credit Criteria Red - Minimum standards Green Highlight - Early stage credits	redits available	argeted	warded	lot targeted	redits available	argeted	warded	lot targeted Key responsib
Wat 01 Water consumption	Water consumption 1 Use the BREEAM Wat 01 calculator to assess the efficiency of the domestic water-consuming components. 2 Use the standard Wat 01 method to compare the water consumption (litres/person/day) for the assessed building against a baseline performance. Award BREEAM credits based upon Table 8.1. Where it is not possible to use the standard method, complete the assessment using the alternative Wat 01 method. 3 If a greywater or rainwater system (see Definitions) is specified, use its yield in L/person/day to offset potable water demand from components. 4 If a greywater or rainwater system is specified and installed: 4.a: Greywater systems in compliance with BS 8525-1:2010 Greywater systems - Part 1 Code of Practice 3. 4.b: Rainwater systems in compliance with BS 8515:2009+A1:2013 Rainwater harvesting systems - Code of practice 4.	5	5			5	L 5	*	AHMM / GPE
Wat 02 Water monitoring	Water monitoring To pecify a water meter on the mains water supply to each building. This includes instances where water is supplied via a borehole or other private source. 2 For water-consuming plant or building areas consuming 10% or more of the building's total water demand: 2.a: Fit easily accessible sub-meters OR 2.b: Install water monitoring equipment integral to the plant or area. 3 For each meter (main and sub): 3.a: Install a pulsed or other open protocol communication output AND 3.b: Connect it to an appropriate utility monitoring and management system, e.g. a building management system (BMS), for the monitoring of water consumption. If there is no BMS system in operation at Post-Construction stage, award credits provided that the system used enables connection when the BMS becomes operational. 4 In buildings with swimming pools, or large water tanks and aquariums, fit separate sub-meters on the water supply of the above and any associated changing facilities (toilets, showers etc.) irrespective of their water consumption levels. 5 In buildings containing laboratories, fit a separate water meter on the water supply to any process or cooling loop for 'plumbed-in' laboratory process equipment, irrespective of their water consumption levels. Additionally for those pursuing a post occupancy stage certification: 6 The water monitoring strategy used enables the identification of all water consumption for sanitary uses as assessed under Wat 01 (litres/person/day), if a post occupancy stage certification is sought.	1	1			1	1		CBDSP
Water leak detection	Lask detection system capable of detecting a major water leak: 1.a: On the utilities water supply within the buildings, to detect any major leaks within the buildings AND 1.b: Between the buildings and the utilities water supply, to detect any major leaks between the utilities supply and the buildings under assessment. 2 The leak detection system is: 2.a: A permanent automated water leak detection system that alerts the building occupants to the leak OR an inbuilt automated diagnostic procedure for detecting leaks 2.b: Activated when the flow of water passing through the water meter or data logger is at a flow rate above a pre-set maximum for a pre-set period of time. This usually involves installing a system which detects higher than normal flow rates at meters or sub-meters. It does not necessarily require a system that directly detects water leakage along part or the whole length of the water supply system 2.c: Able to identify different flow and therefore leakage rates, e.g. continuous, high or low level, over set time periods. Although high and low level leakage rates are not specified, the leak detection equipment installed must have the flexibility to distinguish between different flow rates to enable it to be programmed to suit the building type and owner's or occupier's water consumption criteria 2.e: Where applicable, designed to avoid false alarms caused by normal operation of large water-consuming plant such as chillers. Where there is physically no space for a leak detection system between the utilities water meter and the building, alternative solutions can be used, provided that a major leak can still be detected.	1	1			1	1		CBDSP
Wat 03 '	Flow control devices 3 Install flow control devices that regulate the water supply to each WC area or sanitary facility according to demand, in order to minimise undetected wastage and leaks from sanitary fittings and supply pipework.	1	1			1	1		CBDSP
Wat 04 Water efficient equipment		1	1			1	1		MRG Studio / CBDSP
	Total - Water: Credit value:	9	9	78%	0	9	9 0.7		0
	Materials Materi								

		(1 Office Ass Shell ar	L sessment nd Core		F	2 Retail Ass Shell an	essment	llity
	Credit Criteria Red - Minimum standards Green Highlight - Early stage credits	redits available	argeted	warded	ot targeted	redits available	argeted	warded lot targeted	Key responsibility
01 Building life cycle assessment (LCA)	Superstructure Comparison with the BREEAM benchmark during Concept Design (offices, industrial and retail buildings only)? Superstructure (offices, industrial and retail buildings) 1 During the Concept Design, demonstrate the environmental performance of the building as follows: 1.6. Carry out a building LCA and of the superstructure design using either the BREEAM simplified Building LCA tool or an IMPACT Compliant LCA tool according to the methodology (see Methodology). 1.6. Submit the Mat Ol/O2 Results Submission Tool to BRE at the end of Concept Design, and before planning permission is applied for (that includes external material or product specifications). Superstructure Comparison with the BREEAM benchmark during Technical Design (offices, industrial and retail buildings only) 2.a. As crietron Ia 2.b. Submit the Mat Ol/O2 Results Submission Tool to BRE at the end of Technical Design. Superstructure Contains a parallal during Concept Design (all building types, achieve criterion I (except where Notes 1.0, 11 and 1.2 apply). 4 During Canholing Cannell Submitsion Tool to BRE at the end of Technical Design. 5 For offices, industrial and retail building types, achieve criterion I (except where Notes 1.0, 11 and 1.2 apply). 4 During Concept Design, identify opportunities for reducing environmental impacts as follows: 4.a. Carry out building LCA options appraisal of 2 to 4 significantly different superstructure design options (applicable to the Concept Design stage, see Methodology). 4.b. Use a building LCA options appraisal of 2 to 4 significantly different superstructure design options (applicable to the Concept Design) according to the methodology (see Methodology). 4.c. For each design option, fulfill the same functional requirements specified by the client and all statutory requirements (to ansure functional equivalency). 4.c. For each design option, fulfill the same functional requirements proceed beginns options, the design options of the includes external material or product specifications	6	e T	A	9X	6	Ta Ta	8	AHMM/ AKT/ eTool AHMM/ AKT/ eTool AHMM/ AKT/ eTool
Mat (Options appraisal during Technical Design (all building types) 5 During Technical Design identify opportunities for reducing environmental impacts as follows: 5.a: Carry out building LCA options appraisal of 2 to 3 significantly different superstructure design options (based on the selected Concept Design option and as applicable to the Technical Design stage, see Methodology). 5.b: Use a building LCA tool that is recognised by BREEAM (as suitable for assessing superstructure during Technical Design) according to the methodology (see Methodology). 5.c: As criteria 4.c to 4.e. Where an options appraisal summary document was produced during Concept Design, update it to include the Technical Design options. 5.d: Submit the Mat 01/02 Results Submission Tool to BRE at the end of Technical Design. Where a project has not achieved criteria 3 and 4, criterion 5 may still be achieved.								AHMM/ AKT/ eTool
	Substructure and hard landscaping options appraisal during Concept Design 6 Criteria 3 and 4 are achieved. 7 During Concept Design identify opportunities for reducing environmental impacts as follows: 7.a: Carry out building LCA options appraisal of a combined total of at least six significantly different substructure or hard landscaping design options (at least two shall be substructure and at least two shall be hard landscaping). 7.b: Using a building LCA tool that is recognised by BREEAM (as suitable for assessing substructure and hard landscaping during Concept Design) according to the methodology (see Methodology). 7.c: As criteria 4.c to 4.f.	1	1			1	1		MRG Studio/ AHMM/ AKT/ eTool
Mat 02 Environmental Product Declarations (EPD)	Specification of products with a recognised environmental product declaration (EPD). 1 Specify construction products with EPD that achieve a total EPD points score of at least 20, according to the Methodology below. 2 Enter the details of each EPD into the Mat 01/02 Results Submission Tool, including the material category classification. The Mat 01/02 Results Submission Tool will verify the EPD points score and credit award.	1	1			1	1		Contractor/ AHMM
g of materials	Prerequisite 1 All timber and timber-based products used on the project are legally harvested and traded timber as per the UK Government's Timber Procurement Policy (TPP) (see Definitions). Compliance with criterion 1 is a minimum requirement for achieving any BREEAM rating. There are no prerequisite requirements for other materials.	-	-		-	-	-		

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	Credit Criteria Red - Minimum standards Green Highlight - Early stage credits	Credits available	Targeted	Awarded	Not targeted	Credits available	Targeted	Awarded	Not targeted	Key responsibili
oonsible sourcing	Enabling sustainable procurement 2 A sustainable procurement plan must be used by the design team to guide specification towards sustainable construction products. The plan must: 2.a: Be in place before Concept Design. 2.b: Include sustainability aims, objectives and strategic targets to guide procurement activities. Note: targets do not need to be achieved for the credit to be awarded but justification must be provided for targets that are not achieved. 2.c: Include a requirement for assessing the potential to procure construction products locally. There must be a policy to procure construction products locally where possible. 2.d: Include details of procedures in place to check and verify the effective implementation of the sustainable procurement plan. In addition, if the plan is applied to several sites or adopted at an organisational level it must: 2.e: Identify the risks and opportunities of procurement against a broad range of social, environmental and economic issues following the process set out in BS ISO 20400:2017	1	1			1	1			GPE/ Contractor/AHM M / CBDSP / AKT II
Mat 03 - Resp	Measuring responsible sourcing 3 Use the Mat 03 calculator tool and methodology to determine the number of credits achieved for the construction products specified or procured. Credits are awarded in proportion to the scope of the assessment and the number of points achieved, as set out in Table 9.10.	3	2		1	3	2		1	Contractor/AHM M / CBDSP / AKT II

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Credit Criteria Red - Minimum standards Green Highlight - Early stage credits	redits available	argeted	nd Core	ot targeted	redits available	Shell ar	ma Core	ot targeted Key responsibility
Designing for durability and resilience Protecting vulnerable parts of the building from damage 1 Protection measures are incorporated into the building's design and construction to reduce damage to the building's fabric or materials in case of accidental or malicious damage occurring. These measures must provide protection against: 1.a: Negative impacts of high user numbers in relevant areas of the building (e.g. corridors, lifts, stairs, doors etc.). 1.b: Damage from any vehicle or trolley movements within Im of the internal building fabric in storage, delivery, corridor and kitchen areas. 1.c: External building fabric damage by a vehicle. Protection where parking or manoeuvring areas are within 1 metre of the building facade and where delivery areas or routes are within 2 metres of the façade, i.e. specifying bollards or protection rails. 1.d: Potential malicious damage to building materials and finishes, in public and common areas where appropriate. Protecting exposed parts of the building from material degradation 2 Key exposed building elements have been designed and specified to limit long and short term degradation due to environmental factors. This can be demonstrated through one of the following: 2.a: The element or product achieving an appropriate quality or durability standard or design guide, see Table 9.14. If none are available, use BS 7543:20151 as the default appropriate standard OR 2.b: A detailed assessment of the element's resilience when exposed to the applicable material degradation and environmental factors. 3 Include convenient access to the roof and façade for cost-effective cleaning, replacement and repair in the building's design. 4 Design the roof and façade to prevent water damage, ingress and detrimental ponding.	1	1	4	Ž	1	1	4	AHMM/A
Material efficiency 1 At the Preparation and Brief and Concept Design stages, set targets and report on opportunities and methods to optimise the use of materials. These must be done for each of the following stages. See Table 9.15: 1.b: Concept Design 1.b: Concept Design 1.d: Technical Design 1.d: Technical Design 1.d: Technical Design 1.d: Developed Design 2.Developed Design 2.Developed Design 2.Developed Design 2.Developed Design 2.Developed Tesign 2.Developed Design 3.Developed D	1	12	0	1	1	12		1 AHMM/
l otal - Materials: Credit value:	14		25%	2	14	12		2
Pre-demolition audit 1 Complete a pre-demolition audit of any existing buildings, structures or hard surfaces being considered for demolition. This must be used to determine whether refurbishment or reuse is feasible and, in the case of demolition, to maximise the recovery of material for subsequent high grade or value applications. The audit must cover the content of Pre-demolition audit scope and: 1.a: Be carried out at Concept Design stage (RIBA Stage 2) by a competent person prior to strip-out or demolition works 1.b: Guide the design, consider materials for reuse and set targets for waste management 1.c: Engage all contractors in the process of maximising high grade reuse and recycling opportunities 1.d: Compare actual waste arisings and waste management routes used with those forecast and investigate significant deviations from planned targets. 2 Make reference to the audit in the resource management plan (RMP)	1	1			1	1		GPE/
Construction resource efficiency 3 Prepare a compliant Resource Management Plan (RMP) covering: 3.a: Non-hazardous waste materials (from on-site construction and dedicated off-site manufacture or fabrication, including demolition and excavation waste 3.b: Accurate data records on waste arisings and waste management routes. 4 Meet or improve upon the benchmarks in Table 10.1 for non-hazardous construction waste, excluding demolition and excavation waste. One credit: <13.3 m3/100m2 GIFA or <11.1 tonnes/100m2 GIFA Two credits: <7.5 m3/100m2 GIFA or <6.5 tonnes/100m2 GIFA Three credits: <3.4 m3/100m2 GIFA or <3.2 tonnes/100m2 GIFA Diversion of resources from landfill	3	2		1	3	2		1 Contractor
5 Meet, where applicable, the diversion from landfill benchmarks in Table 10.2 for non-hazardous construction waste and demolition and excavation waste generated. One credit: Non-Demolition: 70% by Volume (80% by tonnage) Demolition: 80% by Volume (90% by tonnage) 6 Sort waste materials into separate key waste groups, either on-site or through a licensed contractor for recovery.	1	1			1	1		
Prerequisite 1 If demolition occurs on site, to encourage the reuse of site-won material on site, complete a pre-demolition audit of any existing buildings, structures or hard surfaces in accordance with Wst 01 Construction waste management: Criterion 1 and Wst 01 Construction waste management: Criterion 2.	-	-		-	-	-		-

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	Credit Criteria Red - Minimum standards Green Highlight - Early stage credits	Credits available	Targeted	Awarded	Not targeted	Credits available	Targeted	Awarded	Not targeted	Key responsib
Wst 02 Use of recycled sustainably sourced agg	Project Sustainable Aggregate Points 2 Identify all aggregate uses and types on the project 3 Determine the quantity in tonnes for each identified use and aggregate type. 4 Identify the region in which the aggregate source is located. 5 Calculate the distance in kilometres travelled by all aggregates by transport type. 6 Enter the information into the BREEAM Wst 02 calculator to calculate the Project Sustainable Aggregate points. The corresponding number of BREEAM credits will be awarded	1			1	1			1	AKT II/AHMM/ Contractor

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	Credit Criteria			1 ifice Assessment Shell and Core page 1 page 2 page 2 page 3 page 3 page 3 page 3 page 3 page 4 pa			Shell ar			ibility
	Red - Minimum standards Green Highlight - Early stage credits	Credits available	Targeted	Awarded	Not targeted	Credits available	Targeted	Awarded	Not targeted	Key responsibility
Wst 03 Operational waste	Operational waste	1	1			1	1			AKT II/AHMM/ Contractor
Wst 04 Speculative finishes (Offices only)	Speculative floor and ceiling finishes Office building types only 1 For tenanted areas, where the future occupant is not known and carpets or other floor or ceiling finishes are installed, these must be limited to a show area only. 2 Only install floor and ceiling finishes selected by the known occupant of a development. Alternatively, where only ceiling finishes and no carpets are installed, the building owner confirms that the first tenants will not be permitted to make substantial alterations to the ceiling finishes.	1	1			N/A	N/A		N/A	AHMM/ GPE
Wst 05 Adaptation to climate change	Resilience of structure, fabric, building services and renewables installation 1 Conduct a climate change adaptation strategy appraisal using: 1.a: A systematic risk assessment to identify the impact of expected extreme weather conditions arising from climate change on the building over its projected life cycle. The assessment covers the installation of building services and renewable systems, as well as structural and fabric resilience aspects and includes: 1.a.i Hazard identification 1.a.ii Hazard assessment 1.a.iii Risk estimation 1.a.iv Risk evaluation 1.a.v Risk management. 2 Develop recommendations or solutions based on the climate change adaptation strategy appraisal, before or during Concept Design, that aim to mitigate the identified impact. 3 Provide an update during Technical Design demonstrating how the recommendations or solutions proposed at Concept Design have been implemented where practical and cost effective. Omissions have been justified in writing by the assessor.	1	1			1	1			AHMM /AKT II/CBDSP
sassembly lity	Design for disassembly and functional adaptability - recommendations 1 Conduct a study to explore the ease of disassembly and the functional adaptation potential of different design scenarios (see Methodology) by the end of Concept Design. 2 Develop recommendations or solutions (see Methodology) based on the study (criterion 1), during or prior to Concept Design, that aim to enable and facilitate disassembly and functional adaptation.	1	1			1	1			AHMM /AKT II/CBDSP
Wst 06 Design for disasse and adaptability	Disassembly and functional adaptability – implementation 3 Achieve criteria 1 and 2 4 Provide an update, during Technical Design, on: 4.a: How the recommendations or solutions proposed by Concept Design have been implemented where practical and cost effective. Omissions have been justified in writing to the assessor. 4.b: Changes to the recommendations and solutions during the development of the Technical Design. 5 Produce a building adaptability and disassembly guide to communicate the characteristics allowing functional adaptability and disassembly to prospective tenants.	1	1			1	1			AHMM /AKT II/CBDSP
	Total - Waste: Credit value:	11	9	0 64%	2	10	8	0 0%	2	

			1				2		
		Office As Shell a	ssessmer Ind Core	nt	+		ssessmer and Core		≟
Credit Criteria Red - Minimum standards Green Highlight - Early stage credits	redits available	argeted	warded	lot targeted	redits available	argeted	warded	lot targeted	Key responsibility
Land use and ecology	0	<u> </u>	<u> </u>	Z	0	<u> </u>	◀	Z	
Previously occupied land 1 At least 75% of the proposed development's footprint is on an area of land which has previously been occupied	1	1			1	1			AHMM /
Contaminated land 2 A contaminated size investigation, risk assessment and appraisal has deemed land within the site to be affected by contamination. The site investigation, risk assessment and appraisal have identified: 2.a: The degree of contaminant sources or types 2.c: The options for remediating sources of contamination which present an unacceptable risk. 3 The client or principal contractor confirms that remediation of the site will be carried out in accordance with the remediation strategy and its implementation plan as recommended by the contaminated land professional	1			1	1			1	
Prerequisite - Assessment route selection 1 An assessment route for the project has been determined using BREEAM Guidance Note GN34 BREEAM Ecological Risk Evaluation Checklist. 2 The client or contractor confirms compliance is monitored against all relevant UK and EU or international legislation relating to the ecology of the site.	-	-			-	-		-	Ecologist Studio /
Survey and evaluation Route 1 3 Completion of the BREEAM Ecological Risk Evaluation Checklist indicates Assessment route 1 can be used as the assessment Route 2 4 An appropriate individual is appointed at a project stage that ensures early involvement in site configuration and, where necessary, can influence strategic planning decisions. 5 Prior to the completion of the preparation and brief, an appropriate level of survey and evaluation (see Assessment route 2: For sites where complex ecological systems are likely to be present) has been carried out to determine the ecological baseline of the site, taking account of the zone of influence to establish: 5.a: Current and potential ecological value and condition of the site, and related areas within the zone of influence. 5.b: Direct and indirect risks to current ecological value 5.c: Capacity and feasibility for enhancement of the ecological value of the site and, where relevant, areas within the zone of influence. 6 Data are collated and shared with project team to inform the site preparation, design or construction works.	1	1			1	1			Ecologist Studio /
Determining the ecological outcomes for the site (Routes 1 and 2) 7 Survey and evaluation criteria (criteria 3-6) relevant to the chosen route have been achieved. 8 During Concept Design, the project team liaise and collaborate with representative stakeholders to identify and consider ecological outcome for the sites (appropriate to the scale and type of development) for the project. 9 When determining the ecological outcome for the site, this must involve the identification, appraisal and selection of specific solutions and measures sufficiently early to influence key project planning decisions. This must be done in accordance with the following hierarchy of action: 9.b: protection 9.c: reduction or limitation of negative impacts 9.c: enhancement, considering the capacity and feasibility within the site, or where viable, off-site. 10 Following this the optimal ecological outcome for the site is selected after liaising with representative stakeholders and the project team.	1	1			1	1			Ecologist Studio /
Prerequisite – Identification and understanding the risks and opportunities for the site 1 LE 02 has been achieved. 2 The client or contractor has confirmed that compliance is monitored against all relevant UK, and EU or International legislation relating to the ecology of the site	-	-			-	-			Ecologist Studio /

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							Retail Ass Shell an	essment d Core		ility
	Credit Criteria Red - Minimum standards Green Highlight - Early stage credits	Credits available	Targeted	Awarded	Not targeted	Credits available	Fargeted	Awarded	Not targeted	Key responsibility
impacts on ecology	Planning, liaison, implementation and data 3 Roles and responsibilities have been clearly defined, allocated and implemented to support successful delivery of project outcomes at an early enough stage to influence the concept design or design brief. 4 Site preparation and construction works have been planned for and are implemented at an early project stage to optimise benefits and outputs. 5 The project team liaising and collaborating with representative stakeholders, taking into consideration data collated and shared, have implemented solutions, and measures have been selected (see LE 02 Identifying and understanding the risks and opportunities for the project), during site preparation and construction works.	1	1			1	1		E	Ecologist / MRG Studio / GPE
LE 03 Managing negative	Managing negative impacts of the project Route I (one credit) 6 Negative impacts from site preparation and construction works have been managed according to the hierarchy and no net impact has resulted. Route 2 (up to two credits) 7 Negative impacts from site preparation and construction works have been managed according to the hierarchy (see Assessment route 2: For sites where complex ecological systems are likely to be present) and either: Za: No overall loss of ecological value has occurred (2 credits) OR 7.b: The loss of ecological value has been limited as far as possible (1 credit)	2	2			2	2			Ecologist / MRG Studio / GPE
	Prerequisite - Identifying and understanding the risks and opportunities for the project 1 LE 03 has been achieved. Including the following, specific to the aims of this issue: 1.a: Roles and responsibilities have been clearly defined, allocated and implemented to support successful delivery of project outcomes 1.b: Site preparation and construction works have been planned for and implemented at a stage that is sufficiently early in the project to optimise benefits and outputs. 2 The client or contractor confirms compliance is monitored against all relevant UK, EU or international legislation relating to the ecology of the site.		-		-	-				
site ecology	Enhancement of ecology Route 1 3 The project team liaising and collaborating with representative stakeholders, taking into consideration data collated and shared, have implemented solutions and measures based on recommendations from recognised 'local' ecological expertise, specialist input and guidance to inform the adoption of locally relevant ecological solutions and measures which enhance the site. 4 Data collated is provided to the local environmental records centres nearest to, or relevant for, the site.	-	-			-	-		-	

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	Credit Criteria		Shell a	nd Core			Shell an	nd Core		ponsibility
	Red - Minimum standards Green Highlight - Early stage credits	redits available	argeted	warded	ot targeted	Credits available	fargeted	warded	ot targeted	Key respons
Le 04 - Enhancing	Liaison, implementation and data collation Route 2 5 The project team liaising and collaborating with representative stakeholders, taking into consideration data collated and shared, have implemented the solutions and measures selected in a way that enhances ecological value in the following order: 5.a: On site, and where this is not feasible, 5.b: Off site within the zone of influence.	1	1	•	Z	1	1	∢		Ecologist / MRG Studio / GPE
	Enhancement of ecology. Route 2 6 Credits are awarded on a scale of 1 to 3, based on the calculation of the change in ecological value occurring as a result of the project. This must be calculated in accordance with the process set out in either GN 35 - BREEAM, CEEQUAL, HQM Ecology Assessment Issues - Route 1 or GN 36 - BREEAM, CEEQUAL, HQM Ecology Assessment Issues - Route 2 (whichever is applicable to the project).	3	3			3	3			Ecologist / MRG Studio / GPE
sity	Prerequisite - Roles and responsibilities, implementation, statutory obligations 1 The client or contractor has confirmed that compliance is being monitored against all relevant UK, EU and international standards relating to the ecology of the site. 2 Where pursued, LE 04 has been achieved, including the following specific aims of this issue: 2.a: Roles and responsibilities have been clearly defined, allocated and implemented to support successful delivery of project outcomes. 2.b: Site preparation and construction works have been planned for and implemented at a stage that is sufficiently early in the project to optimise benefits and outputs.	-	-		-		-			
- Long term impact on biodiversity	Planning, Ilaison, data, monitoring and review management and maintenance 3 The project team liaise and collaborate with representative stakeholders, taking into consideration data collated and shared, on solutions and measures implemented to: 3.a: monitor and review implementation and the effectiveness 3.b: develop and review management and maintenance solutions, actions or measures. 4 In support of the above and to help ensure their continued relevance over the period of the project the following should be considered: 4.a: Monitoring and reporting of on the ecological outcomes for site implemented at the design and construction stage 4.b: Monitoring and reporting of outcomes and successes from the project 4.c: Arrangements for the ongoing management of landscape and habitat connected to the project (on and, where relevant, off site) 4.d: Maintaining the ecological value of the site and its relationship or connection to its zone of influence 4.e: Maintaining the site in line with the any sustainability linked activities, e.g. ecosystems benefits (LE 02). 4.f. Remedial or other management actions are carried out which relate to those identified in LE 02, LE 03 and LE 04. 5 As part of the tenant or building owner information supplied, include a section on Ecology and Biodiversity to inform the owner or occupant of local ecological features, value and biodiversity on or near the site.	1	1			1	1			Ecologist / MRG Studio / GPE
Le 05 ·	Landscape and ecology management plan (or similar) development 6 Landscape and ecology management plan, or similar, is developed in accordance with BS 42020:20131 covering as a minimum the first five years after project completion and includes: 6.a: Actions and responsibilities, prior to handover, to give to relevant individuals 6.b: The ecological value and condition of the site over the development life. 6.c: Identification of opportunities for ongoing alignment with activities external to the development project and which supports the aims of BREEAM's Strategic Ecology Framework 6.d: Identification and guidance s to trigger appropriate remedial actions to address previously unforeseen impacts 6.e: Clearly defined and allocated roles and responsibilities. 7 The landscape and management plan or similar is updated as appropriate to support maintenance of the ecological value of the site.	1	1			1	1			Ecologist / MRG Studio / GPE
	Total - Land Use & Ecology:	13	12		1	13	12		1	
	Credit value: Pollution		1.1	5%			1.15	0%		

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	Credit Criteria Red - Minimum standards Green Highlight - Early stage credits	Credits available	argeted	Awarded	Not targeted	Credits available	argeted	Awarded	Not targeted	Key responsibility
	No refrigerant use within the installed plant or systems. OR alternatively, where the building does use refrigerants, the three credits can be awarded as follows:					-	,		-	
	Refrigerant pre-requisite 2 All systems with electric compressors comply with the requirements of BS EN 378:20161 (parts 2 and 3). Refrigeration systems containing ammonia comply with the Institute of Refrigeration Ammonia Refrigeration Systems code of practice2.	-	-		-	-	-		-	
Impact of refrigerants	Impact of refrigerants Two credits 3 The direct effect life cycle CO₂ equivalent emissions (DELC) of ≤ 100 CO₂-eq/kW. For systems which provide cooling and heating, the worst performing output based on the lower of kW cooling output and kW heating output is used to complete the calculation. To calculate the DELC, refer to the relevant definitions in Methodology and Additional information. OR 4 All refrigerants used have a global warming potential (GWP) ≤ 10.	1			1	1			1	
Pol 01 - Ir	Impact of refrigerants One credit 5 Systems using refrigerants have a DELC of ≤ 1000 kgCO₂-eq/kW cooling and heating capacity.	1	1			1	1			CBDSP
	Leak detection 6 All systems are hermetically sealed or only use environmentally benign refrigerants (see Leak detection and Hermetically sealed systems). OR 7. Where the systems are not hermetically sealed: 7.a.: Systems have: 7.a.: A permanent automated refrigerant leak detection system, that is robust and tested, and capable of continuously monitoring for leaks. OR 7.a.ii An inbuilt automated diagnostic procedure for detecting leakage is enabled. 7.b.: In the event of a leak, the system must be capable of automatically responding and managing the remaining refrigerant charge to limit loss of refrigerant (see Automatic isolation and containment of refrigerant).	1	1			1	1			CBDSP
Pol 02 Local air quality	Local air quality. 1 All heating and hot water is supplied by non-combustion systems. For example, only powered by electricity. OR alternatively; 2 Emissions from all installed combustion plant that provide space heating and domestic hot water do not exceed the levels set in Table 12.4 and Table 12.5. The measurements must be provided by manufacturers, following the labelling requirements of the European directive 2009/125/EC. No credits can be awarded for Pol 02 if any of the combustion appliances are not covered in Table 12.4 and Table 12.5. 3 Emissions from all installed combustion plant that provide space heating and domestic hot water do not exceed the levels set in Table 1.21 and Table 1.22.	2			2	2			2	

				1			2	:		
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	Credit Criteria Red - Minimum standards Green Highlight - Early stage credits	Credits available	Targeted	Awarded	Not targeted	Credits available	Targeted	Awarded	Not targeted	Key responsibility
Pol 04 Reduction of night time light pollution	Reduction of night time light pollution 1 External lighting pollution has been eliminated through effective design that removes the need for external lighting. This does not adversely affect the safety and security of the site and its users. OR alternatively, where the building does have external lighting, one credit can be awarded as follows: 2 The external lighting strategy has been designed in compliance with Table 2 (and its accompanying notes) of the Institution of Lighting Professionals (ILP) Guidance notes for the reduction of obtrusive light, 2011. 3 All external lighting (except for safety and security lighting) can be automatically switched off between 23:00 and 07:00. 4 If safety or security lighting is provided and will be used between 23:00 and 07:00, this part of the lighting system complies with the lower levels of lighting recommended during these hours in Table 2 of the ILP guidance notes. 5 Illuminated advertisements are designed in compliance with ILP PLG05 The Brightness of Illuminated Advertisements.	1	1			1	1			Lighting designer
Pol 05 Reduction of noise pollution	Reduction of noise pollution 1 There are no noise-sensitive areas within the assessed building or within 800 m radius of the assessed site. OR 2 Where there are noise-sensitive areas within the assessed building or noise-sensitive areas within 800 m radius of the assessed site, a noise impact assessment compliant with BS 4142:20141 is commissioned. Noise levels must be measured or determined for: 2.a: Existing background noise levels: 2.a: at the nearest or most exposed noise-sensitive development to the proposed assessed site 2.a: including existing plant on a building, where the assessed development is an extension to the building 2.b: Noise rating level from the assessed building. 3 The noise impact assessment must be carried out by a suitably qualified acoustic consultant. 4 The noise level from the assessed building, as measured in the locality of the nearest or most exposed noise-sensitive development, must be at least 5dB lower than the background noise throughout the day and night. 5 If the noise sources from the assessed building are greater than the levels described in criterion 4, measures have been installed to attenuate the noise at its source to a level where it will comply with the criterion.	1	1			1	1			Acoustic consultant/ CBDSP
	Total - Pollution:	12	8	0	4	12	8		4	
	Credit value:		0.7	75%		_	0.75	5%		
Man 03	Responsible Construction Practices Responsible Construction Practices	1	1	ı		1	1			Contractor
Man 05	Aftercare	1	'		1	1			1	GPE
Hea 01	Visual Comfort	1			1	1			1	AHMM/ GIA
Hea 02 Ene 01	Indoor air quality Reduction of energy use and carbon emissions	N/A 5	N/A		N/A 5	2 5			2	CBDSP
Wat 01	Water consumption	1			1	1			1	GPE/ CBDSP/
Mat 01	Life cycle impacts	1			1	3			3	AHMM Contractor/AHM M / CBDSP / AKT II
Mat 03	Responsible sourcing of materials	1			1	1			1	Contractor/AHM M
Wst 01	Construction waste management	1			1	1			1	Contractor/AHM M
Wst 02	Recycled aggregates	1			1	1			1	AKT II/AHMM/ Contractor
Wst 05	Adaptation to climate change	N/A	N/A		N/A	1			1	
Al	Approved Innovation Total - Innovation:	1	1		1	1	1		1	
	rotal - Innovation: Credit value:	10	10	0%	9	10	1.00	7%	9	
	Total Target Score		1.0	570			1.00	270		
	Total rarget acore		89.6%				89.4%			
			Outstanding				Outstanding			