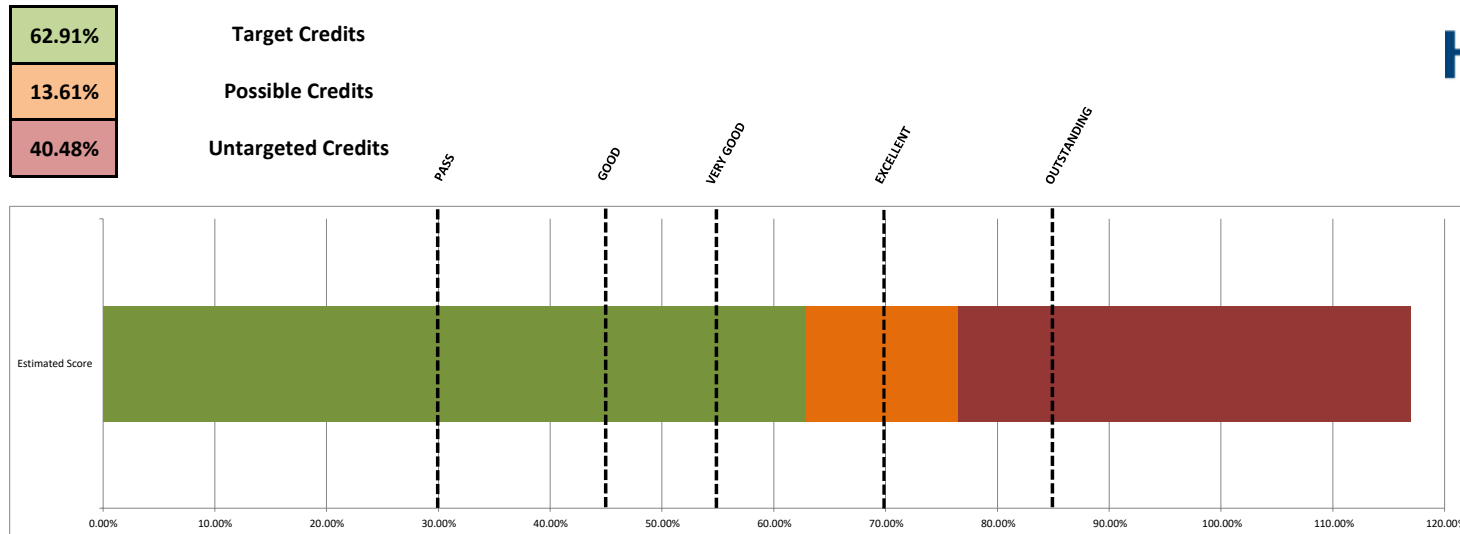


Shell & Core Industrial Units, Knowsley Business Park - Industrial (Shell & Core) BREEAM 2018 Pre-assessment



Rev	Date	Notes
Rev 01	02/02/2022	Initial desktop pre-assessment to show route to Very Good. Target = 62.69%, Possibles = 12.30%.
Rev 02	14/03/2022	Updated desktop pre-assessment to show route to Very Good. Target = 58.08%, Possibles = 14.61%.
Rev 03	03/05/2022	Updated desktop pre-assessment following meeting 14/04/2022. Target = 62.91%, Possibles = 13.61%.

BREEAM 2018 New Construction - Industrial (Shell & Core)									
Credit		Available Credits	Target Credits	Possible Credits	Untargeted Credits	Credit Information	Comments	Time Dependent	Responsibility
Management									
Man 01	Project Brief and Design	1	1	0	0	Project Delivery Planning • 1 credit where by RIBA Stage 2 the design team have identified their roles and responsibilities through the construction process.	Requirements issued to Ryan Lewis at Caddicks and Alex Fulton at Quartz 03/05/2022.	RIBA STAGE 2	PROJECT MANAGER
		1	0	0	1	Stakeholder Consultation (Interested Parties) • 1 credit where a plan is in place to consult and provide feedback on the design to the relevant stakeholders and bodies.		RIBA STAGE 2	-
		1	1	0	0	BREEAM AP (Concept Design) • 1 credit for appointment of BREEAM AP by RIBA Stage 1 to produce a BREEAM pre-assessment and help confirm the BREEAM target for the scheme.		RIBA STAGE 1	CLIENT
		1	1	0	0	BREEAM AP (Developed Design) • 1 credit for appointment of a BREEAM AP to monitor and report progress against BREEAM targets by attending key Design Team meetings and producing a design stage report.			CLIENT
Man 02	Life Cycle Cost & Service Life Planning	2	0	2	0	Elemental Life Cycle Cost (LCC) • 2 credits for undertaking a LCC analysis by RIBA Stage 2.	Requirements and Hydrock fee issued to Alex Fulton at Quartz 03/05/2022.	RIBA STAGE 2	SPECIALIST CONSULTANT
		1	0	1	0	Component Level LCC Plan • 1 credit where a component level LCC plan has been produced by the end of RIBA Stage 4.	Requirements and Hydrock fee issued to Alex Fulton at Quartz 03/05/2022.	RIBA STAGE 4	SPECIALIST CONSULTANT
		1	1	0	0	Capitol Cost Reporting • 1 credit where the capital cost of the building in £/m2 is reported via the BREEAM monitoring tool.			PROJECT MANAGER/ QS

Man 03	Responsible Construction Practices	-	-	-	-	Legally Harvested and Traded Timber • A mandatory pre-requisite for the all the timber and timber-based products used are legally harvested and traded timber.	Requirement will be included in Main Contractor Clauses in ERs for Tender.		MAIN CONTRACTOR
		1	1	0	0	Environmental Management • 1 credit for the main contractor operating a EMS (ISO14001) covering their main operations and follows best practice pollution guidelines.	Requirement will be included in Main Contractor Clauses in ERs for Tender.		MAIN CONTRACTOR
		1	1	0	0	BREEAM AP (Site) • The BREEAM AP is appointed to monitor and report ongoing compliance of the project against relevant sustainability performance criteria during the construction, handover and close out stages.	Requirement will be included in Main Contractor Clauses in ERs for Tender.		MAIN CONTRACTOR
		2	2	0	0	Responsible Construction Management • 1 credit for achieving the minimum responsible construction management items outlined in the BREEAM Manual. • 2 credits for achieving the minimum responsible construction management items along with six additional items outlined in the BREEAM Manual.	Requirement will be included in Main Contractor Clauses in ERs for Tender.		MAIN CONTRACTOR
		1	1	0	0	Utility Consumption • 1 credit for the monitoring, recording and reporting of on-site energy/carbon and water used during construction.	Requirement will be included in Main Contractor Clauses in ERs for Tender.		MAIN CONTRACTOR
		1	1	0	0	Transport of Construction Material • 1 credit for the monitoring, recording and reporting of transport carbon emissions for the materials and waste.	Requirement will be included in Main Contractor Clauses in ERs for Tender.		MAIN CONTRACTOR
Man 04	Commissioning and Handover	1	1	0	0	Commissioning - Testing Schedule and Responsibilities • 1 credit for undertaking monitoring, programming, pre-commissioning, commissioning and re-commissioning for non-complex building services, control systems and testing & inspecting of building fabric.	MANDATORY: (1 credit) for Very Good. Requirement included in M&E Requirements issued to CWC 03/05/2022.		M&E
		1	1	0	0	Commissioning - Design and Preparation • 1 credit for undertaking monitoring, programming, pre-commissioning, commissioning and re-commissioning for building services and specialist systems.	Requirement included in M&E Requirements issued to CWC 03/05/2022.		M&E
		1	0	1	0	Testing & Inspecting Building Fabric • 1 credit for air tightness testing and a thermographic study post-construction to confirm continuity of insulation, avoidance of excessive thermal bridging, air leakage paths and any remediation required.	Requirement will be included in Main Contractor Clauses in ERs for Tender.		MAIN CONTRACTOR
		1	1	0	0	Handover • 1 credit for the production of both a technical and non-technical building user guide. The guide covers all functions and uses of the building, ensuring building occupants can use the building effectively.	MANDATORY: (Criterion 11 only) Creation of a building user guide. Requirement will be included in Main Contractor Clauses in ERs for Tender.		MAIN CONTRACTOR
Man 05	Aftercare					Aftercare Support • 1 credit for Post Occupancy Evaluation of systems for 12 months from handover, including the collection of water and energy data and comparisons are made with what was expected. • A contract is in place to provide aftercare support to building users.	Not included in Shell & Core.		
						Commissioning - Implementation • 1 credit for undertaking post-completion seasonal commissioning of complex and simple systems for up to 12 months following completion.	Not included in Shell & Core.		
						Post Occupancy Evaluation • 1 credit where an independent 3rd party Post Occupancy Evaluation is undertaken 12 months after occupation. This includes a review of design & construction process, feedback from building users and sustainability performance is undertaken. The client will disseminate this information to share good practice and lessons learned.	Not included in Shell & Core.		
Category score		18	13	4	1				
Category Weighting		11.00%							
% Score		11.00%	7.94%	2.44%	0.61%				

Health & Wellbeing									
Hea 01	Visual Comfort					Glare Control • 1 credit where all relevant areas have the potential for disabling glare through building layout, building design, brise soleil or bioclimatic design.	Not included in Shell & Core.		
		1	0	1	0	Daylighting • 1 credit where 80% of the other occupied spaces have a daylight factor of at least 2%. In addition uniformity, view of sky and room depth criteria must be satisfied.			M&E

Hea 03	Visual Comfort	1	1	0	0	View Out • 1 credit where 95% of the relevant building areas are within 8m of a suitably sized window that provides an adequate view out.	Requirement included in Architect Requirements issued to Fletcher Rae 03/05/2022.		ARCHITECT
		1	1	0	0	External Lighting • 1 credit for specification of external lighting levels in line with CIBSE guidance and British Standards.	Requirement included in M&E Requirements issued to CWC 03/05/2022.		M&E
Hea 02	Indoor Air Quality	-	-	-	-	Indoor Air Quality Plan • Mandatory pre-requisite site-specific indoor air quality plan is produced.	Requirement included in M&E Requirements issued to CWC 03/05/2022.		M&E
		1	1	0	0	Ventilation • 1 credit where intakes and extracts are a sufficient distance apart and any area subject to unpredictable occupancy is linked to CO ₂ sensors.	Requirement included in M&E Requirements issued to CWC 03/05/2022.		M&E
						Emissions From Construction Products • 1 credit for 3 out of the 5 product specifications of internal finishes have met the testing requirements and emission levels for Volatile Organic Compounds (VOCs). • 2 credits where all product specifications of internal finishes have met the testing requirements and emission levels for Volatile Organic Compounds (VOCs).	Not included in Shell & Core.		
						Post-Construction Indoor Air Quality Measurement • 1 credit where the formaldehyde concentration level and other airborne VOC concentration levels are measured post-construction and the levels meet the BREEAM standards.	Not included in Shell & Core.		
Hea 04	Thermal Comfort	1	1	0	0	Thermal Modelling • 1 credit where a dynamic thermal analysis has been undertaken to ensure CIBSE comfort levels are met and the building complies with the relevant 'Time out of Range' metric.	Requirement included in M&E Requirements issued to CWC 03/05/2022.		M&E
		1	1	0	0	Design For Future Thermal Comfort • 1 credit for providing evidence through the thermal modelling how passive design features of the building have been included and how these influence thermal comfort future levels.	Requirement included in M&E Requirements issued to CWC 03/05/2022.		M&E
						Thermal Zoning and Controls • 1 credit for appropriate zoning of heating controls in line with the thermal modelling analysis.	Not included in Shell & Core.		
Hea 05	Acoustic Performance	1	1	0	0	Internal Indoor Ambient Noise Level; - One credit: Indoor ambient noise levels comply with the design ranges in Section 7 of BS 8233:2017.	Requirements issued to Ryan Lewis at Caddicks and Alex Fulton at Quartz 03/05/2022.		ACOUSTICIAN
Hea 06	Safety & Security	1	1	0	0	Security of the Site and Building • 1 credit for consultation with a 'Suitably Qualified Security Consultant' at Stage 2 on the design, confirming compliance with 'Secured by Design' principles and incorporating any recommendations. A Security Based Needs assessment must be produced.	Requirements issued to Ryan Lewis at Caddick Land 02/02/2022. Resent to Ryan Lewis and Andrew Thompson 14/03/2022. Discussed at meeting 14/04/2022, Alex Fulton to forward on the SNA once completed.	RIBA STAGE 2	ARCHITECT/ SECURITY CONSULTANT
Hea 07	Safe & Healthy Surrounding	1	0	0	1	Safe Access • 1 credit where safe access requirements for pedestrians and cyclists have been incorporated into the external design.	Discussed at meeting 14/04/2022 and definitely not acheivable.		-
		1	0	1	0	Outside Space • 1 credit for an outside space providing building users with an external amenity area.	Requirement included in Architect Requirements issued to Fletcher Rae 03/05/2022.		ARCHITECT

Energy									
Ene 01	Reduction of Energy Use & Carbon Emissions	9	2	1	6	Energy Performance • Up to 9 credits awarded based on the Part L analysis and the reduction in Energy Demand, Energy Consumption and Building Emission Rate.	Requirement included in M&E Requirements issued to CWC 03/05/2022.		M&E
		4	4	0	0	Prediction of Operational Energy Consumption • Mandatory pre-requisite that the design team hold preliminary design workshop to discuss operational energy performance. • 4 credits where additional energy modelling during design and post-construction stages to generate predicted energy consumption under differing scenarios.	Requirement included in M&E Requirements issued to CWC 03/05/2022.		M&E
Ene 02	Energy Monitoring	1	1	0	0	Sub-metering of End-Use Categories • 1 credit for energy metering of major energy consuming systems through accessible energy sub-meters with a pulsed output.	MANDATORY: (1 credit) for Very Good. Requirement included in M&E Requirements issued to CWC 03/05/2022.		M&E
		1	1	0	0	Sub-metering by Tenant/Building Function Areas • 1 credit for energy metering of tenant/building function areas.	Requirement included in M&E Requirements issued to CWC 03/05/2022.		M&E

Ene 03	Energy Efficient External Lighting	1	1	0	0	External Lighting • 1 credit where the building is designed to operate without the need for external lighting or alternatively, where the building does have external lighting, the average initial luminous efficacy of the external lighting fittings is no less than 70 luminaire lumens per circuit Watt and all external fittings are appropriately controlled.	Requirement included in M&E Requirements issued to CWC 03/05/2022.		M&E
Ene 04	Low Carbon Design	1	0	1	0	Passive Design Analysis • 1 credit where passive design solutions are incorporated by RIBA Stage 2 to reduce energy consumption of building services resulting in a >5% reduction in the total energy demand.	Requirement included in M&E Requirements issued to CWC 03/05/2022.	RIBA STAGE 2	M&E
		1	0	0	1	Free Cooling • 1 credit where a free cooling strategy has been incorporated into the building design, or the building does not require any form of cooling.			-
		1	0	1	0	Low Zero Carbon Feasibility Study • 1 credit for production of a compliant LZC feasibility study by an Energy specialist.	Requirement included in M&E Requirements issued to CWC 03/05/2022.	RIBA STAGE 2	M&E
Ene 06	Energy Efficient Transportation System	1	1	0	0	Transportation System Analysis • 1 credit where a transportation system analysis is carried out to determine and specify the optimum number, size and type of lifts that is most energy efficient.	Requirement will be included in Main Contractor Clauses in ERs for Tender.		LIFT MANUFACTURER
		1	1	0	0	Energy Efficient Features • 1 credit where the relevant energy-efficient features criteria are met.	Requirement will be included in Main Contractor Clauses in ERs for Tender.		LIFT MANUFACTURER
Ene 08	Energy Efficient Equipment					Energy Efficient Equipment • 2 credits where the majority of unregulated energy are specified in line with BREEAM standards.	Not included in Shell & Core.		
Category score		21	11	3	7				
Category Weighting		14.00%							
% Score		14.00%	7.33%	2.00%	4.67%				

Transport									
Tra 01	Transport Assessment & Travel Plan	2	2	0	0	Travel Plan • 1 credit where a travel plan based on a site and building specific transport assessment has been produced, which influences the development design.	Requirements issued to Ryan Lewis at Caddick Land 02/02/2022. Resent to Prime TP 14/03/2022. Discussed at meeting 14/04/2022, report to be issued to Sam Jones to check compliance.	RIBA STAGE 1	ARCHITECT
Tra 02	Sustainable Transport Measures	10	7	0	3	Transport Options Implementation • Mandatory pre-requisite to achieve the Tra 01 credits. • Up to 10 credits dependant upon the number of transport options implemented in line with the BREEAM requirements.	Discussed at meeting 14/04/2022, summary as follows: 4. EVCP. One credit targeted. 6. Cycle routes, extending existing routes. Two credits targeted. 7. Cycle Spaces. One credit targeted. 8. Cyclist Facilities. One credit targeted. 10. Enhanced Amenities, outside space. Two credits targeted. Requirement included in Architect Requirements issued to Fletcher Rae 03/05/2022.		ARCHITECT/ DESIGN TEAM
Category score		12	9	0	3				
Category Weighting		11.50%							
% Score		11.50%	8.63%	0.00%	2.88%				

Water									
Wat 01	Water Consumption	5	3	0	2	Sanitary Fittings and Grey/Rainwater • 1 credit for reducing potable water consumption by 12.5% over standard. • 2 credits for reducing potable water consumption by 25% over standard. • 3 credits for reducing potable water consumption by 40% over standard. • 4 credits for reducing potable water consumption by 50% over standard. • 5 credits for reducing potable water consumption by 55% over standard.	MANDATORY: (1 credit) for Very Good. Requirement included in M&E Requirements issued to CWC 03/05/2022. Requirement included in Architect Requirements issued to Fletcher Rae 03/05/2022.		ARCHITECT
Wat 02	Water Monitoring	1	1	0	0	Water Metering • 1 credit for installation of a main water meter and sub-meters in areas with over 10% of building water demand. All meters must have a pulsed output.	MANDATORY: (criterion 1 only) A water meter is specified on the mains water supply to each building. Requirement included in M&E Requirements issued to CWC 03/05/2022.		M&E
Wat 03	Water Leak Detection and Prevention	1	1	0	0	Leak Detection System • 1 credit for installation of a programmable water leak detection unit within the building and between the building and utilities water meter.	Requirement included in M&E Requirements issued to CWC 03/05/2022.		M&E
		1	1	0	0	Flow Control Devices • 1 credit for installation of flow-control devices to each WC area/facility to ensure water is only supplied when needed and prevent minor leaks.	Requirement included in M&E Requirements issued to CWC 03/05/2022.		M&E
Wat 04	Water Efficient Equipment	1	1	0	0	Unregulated Water • 1 credit where the unregulated water demands have been identified and reduced. This can be through either good practice design or specification to achieve a meaningful water demand reduction.			CLIENT
Category score		9	7	0	2				

Category Weighting	7.00%			
% Score	7.00%	5.44%	0.00%	1.56%

Materials									
Mat 01	Building Life Cycle Assessment	7	5	0	2	Building Life Cycle Assessment (LCA) • Up to 6 credits where an LCA on the superstructure is carried out at both Concept Design and Technical Design. • 1 credit where an LCA on the substructure and hard landscaping is carried out at Concept Design.	Requirements issued to Ryan Lewis at Caddick Land 02/02/2022. Resent 14/03/2022 to Ryan Lewis to appoint a party to undertake. Discussed at meeting 14/04/2022, resent 03/05/2022 to Ryan Lewis and Alex Fulton.	RIBA STAGE 2 & RIBA STAGE 4	SPECIALIST CONSULTANT
Mat 02	Environmental Product Declarations	1	1	0	0	Specification of Products With a Recognised Environmental Product Declaration • Construction products with an EPD achieve a combined point score of at least 20 calculated in line with BREEAM requirements.	Requirement will be included in Main Contractor Clauses in ERs for Tender.		MAIN CONTRACTOR
Mat 03	Responsible Sourcing	1	1	0	0	Enabling Sustainable Procurement • 1 credit for producing a documented sustainable procurement plan.	MANDATORY: (criterion 1 only) All timber and timber based products used on the project are 'Legally harvested and traded timber'. Requirements issued to Ryan Lewis at Caddick Land 02/02/2022. Resent 14/03/2022.	RIBA STAGE 2	CLIENT/ DESIGN TEAM/ MAIN CONTRACTOR
		3	1	1	1	Measuring Responsible Sourcing • Up to 3 credits for selection of materials whose manufacture and production processes have been certified through an EMS (Environmental Management System) process.	Requirement will be included in Main Contractor Clauses in ERs for Tender.		MAIN CONTRACTOR
Mat 05	Designing for Durability and Resilience	1	1	0	0	Internal and External Protection Measures • 1 credit for specifying suitable protection measures to areas vulnerable to high pedestrian traffic, internal vehicular/trolley movement and external vehicle collision. Also building elements are designed to limit degradation due to environmental factors.	Requirement included in Architect Requirements issued to Fletcher Rae 03/05/2022.		ARCHITECT
Mat 06	Material Efficiency	1	0	0	1	Optimise Material Efficiency • 1 credit where opportunities have been identified, investigated and implemented to optimise the materials through procurement, construction, maintenance and end-of-life.		PREPARATION AND BRIEF	ARCHITECT
Category score		14	9	1	4				
Category Weighting		17.50%							
% Score		17.50%	11.25%	1.25%	5.00%				

Waste									
Wst 01	Construction Waste Management	1	1	0	0	Pre-Demolition Audit 1 credit where a pre-demolition audit of any existing elements is carried out at concept design in line with BREEAM requirements.	Requirements issued to Ryan Lewis at Caddick Land 02/02/2022. Resent 14/03/2022. Discussed at meeting 14/04/2022 and small area of hardstanding would need to be assessed. Requirement will be included in Main Contractor Clauses in ERs for Tender.	RIBA STAGE 2	MAIN CONTRACTOR
		3	3	0	0	Construction Resource Efficiency 1 credit for the reduction of non-hazardous waste to be ≤13.3m³ or ≤11.1 tonnes per 100m² gross internal floor area. 2 credits for the reduction of non-hazardous waste to be ≤7.5m³ or ≤6.5 tonnes per 100m² gross internal floor area. 3 credits for the reduction of non-hazardous waste to be ≤3.4m³ or ≤3.2 tonnes per 100m² gross internal floor area.	Requirement will be included in Main Contractor Clauses in ERs for Tender.		MAIN CONTRACTOR
		1	1	0	0	Diversification of Resources from Landfill 1 credit where 70% (volume) or 80% (mass) of non-hazardous non-demolition construction waste & 80% (volume) or 90% (mass) of non-hazardous demolition waste are diverted from landfill.	Requirement will be included in Main Contractor Clauses in ERs for Tender.		MAIN CONTRACTOR
Wst 02	Recycled & Sustainably Sourced Aggregates	1	0	0	1	Project Sustainable Aggregate Points 1 credit where details of the appropriate aggregates identified are used to calculate project sustainable aggregate points between 3.5 - 6 in line with the BREEAM requirements.			MAIN CONTRACTOR
Wst 03	Operational Waste	1	1	0	0	Recyclable Waste Storage/ Compactor/ Composting 1 credit where adequate storage space is provided for the expected general and recyclable waste streams operated on-site.	Requirement included in Architect Requirements issued to Fletcher Rae 03/05/2022.		ARCHITECT
Wst 05	Adaptation to Climate Change	1	1	0	0	Structural and Fabric Resilience 1 credit where, by RIBA Stage 2, a climate change adaptation strategy appraisal for structural and fabric resilience	Requirement included in Architect Requirements issued to Fletcher Rae 03/05/2022.	RIBA STAGE 2	ARCHITECT/ STRUCTURAL
Wst 06	Design for Disassembly &	2	1	0	0	Design for Disassembly & Adaptability - Recommendations 1 credit where a building specific functional adaptation strategy is undertaken by RIBA Stage 2 which includes recommendations to facilitate future adaptation.	Requirement included in Architect Requirements issued to Fletcher Rae 03/05/2022.	RIBA STAGE 2	ARCHITECT

Disassembly & Adaptability		0	1	0	Design for Disassembly & Adaptability - Implementation • 1 credit where updates during Technical Design on the recommendations provided have been implemented. A guide is produced outlining the functional adaptability and disassembly to future tenants.	Requirement included in Architect Requirements issued to Fletcher Rae 03/05/2022.	RIBA STAGE 4	ARCHITECT	
	Category score	10	8	1					1
	Category Weighting	7.00%							
	% Score	7.00%	5.60%	0.70%					0.70%

Land Use & Ecology									
LE 01	Site Selection	1	0	0	1	Previously Occupied Land • 1 credit awarded where 75% of the developments footprint is on an area of previously developed land for industrial, commercial or domestic purposes in the last 50 years.			-
		1	0	0	1	Contaminated Land • 1 credit where the site is deemed contaminated and appropriate remediation has been undertaken.			-
LE 02	Identifying & Understanding the Risks & Opportunities for the Project	1	1	0	0	Survey & Evaluation • 1 credit where an appropriate individual is appointed, survey and evaluation is carried out to determine the ecological baseline of the site, this data is shared with the project team to influence site preparation, design and construction.	Requirements issued to Ryan Lewis at Caddick Land 02/02/2022. Sent to Urban Green directly 15/02/2022, and chased up 14/03/2022. Estimate of 2 credits for LE02 on email from Mark Blacker 14/03/2022.	RIBA STAGE 1/2	ECOLOGIST/ MAIN CONTRACTOR
		1	1	0	0	Determining Ecological Outcomes for the Site • 1 credit where representative stakeholders have been consulted to identify and consider the ecological outcome for the site which is then adopted.	Requirements issued to Ryan Lewis at Caddick Land 02/02/2022. Sent to Urban Green directly 15/02/2022, and chased up 14/03/2022. Estimate of 2 credits for LE02 on email from Mark Blacker 14/03/2022.		ECOLOGIST/ MAIN CONTRACTOR
LE 03	Managing Negative Impacts on Ecology	-	-	-	-	Identification and Understanding the Risks & Opportunities for the Site • Mandatory pre-requisite LE 02 credit requirements achieved. • Mandatory pre-requisite that the client/contractor confirms compliance is monitored against all relevant UK/EU/International legislation regarding the ecology of the site.		RIBA STAGE 1/2	ECOLOGIST/ MAIN CONTRACTOR
		1	1	0	0	Planning, Liaison, Implementation and Data • 1 credit where roles and responsibilities have been clearly identified at an early project stage to adopt the ecological outcome chosen for the site. Preparation of the site has been implemented early applying appropriate recommendations provided by the representative stakeholders.	Requirements issued to Ryan Lewis at Caddick Land 02/02/2022. Sent to Urban Green directly 15/02/2022, and chased up 14/03/2022. Estimate of 1 credits for LE03 on email from Mark Blacker 14/03/2022.		ECOLOGIST/ MAIN CONTRACTOR
		2	0	1	1	Managing Negative Impacts of the Project • Negative impacts from the site preparation and construction works have been managed in line with the BREEM requirements. • 1 credit awarded where loss of ecological value has been limited. • 2 credits awarded where no overall loss of ecological value has occurred.	Requirements issued to Ryan Lewis at Caddick Land 02/02/2022. Sent to Urban Green directly 15/02/2022, and chased up 14/03/2022. Estimate of 1 credits for LE03 on email from Mark Blacker 14/03/2022.		ECOLOGIST/ MAIN CONTRACTOR
LE 04	Change & Enhancement of Ecological Value	-	-	-	-	Identification and Understanding the Risks & Opportunities for the Site • Mandatory pre-requisite LE 03 credit requirements achieved. • Mandatory pre-requisite that the client/contractor confirms compliance is monitored against all relevant UK/EU/International legislation regarding the ecology of the site.		RIBA STAGE 1/2	ECOLOGIST/ MAIN CONTRACTOR
		1	1	0	0	Liaison, Implementation and Data Collection • 1 credit where solutions and measures identified to enhance ecological value have been implemented both on site, and if applicable, within the zone of influence.	Requirements issued to Ryan Lewis at Caddick Land 02/02/2022. Sent to Urban Green directly 15/02/2022, and chased up 14/03/2022. Estimate of 1 credits for LE04 on email from Mark Blacker 14/03/2022.		ECOLOGIST/ MAIN CONTRACTOR
		3	0	1	2	Enhancement of Ecology • Up to 3 credits awarded based on a calculation of the change in ecological value occurring as a result of the project.	Requirements issued to Ryan Lewis at Caddick Land 02/02/2022. Sent to Urban Green directly 15/02/2022, and chased up 14/03/2022. Estimate of 1 credits for LE04 on email from Mark Blacker 14/03/2022.		ECOLOGIST/ MAIN CONTRACTOR
LE 05	Long Term Ecology Management & Maintenance	-	-	-	-	Identification and Understanding the Risks & Opportunities for the Site • Mandatory pre-requisite LE 04 credit requirements achieved. • Mandatory pre-requisite that the client/contractor confirms compliance is monitored against all relevant UK/EU/International legislation regarding the ecology of the site.		RIBA STAGE 1/2	ECOLOGIST/ MAIN CONTRACTOR
		1	0	1	0	Planning, Liaison, Date, Monitoring & Review Management & Maintenance • 1 credit where the project team liaise with representative stakeholders to develop solutions and measures to monitor, review and develop management and maintenance solutions for the ecology of the site.	Requirements issued to Ryan Lewis at Caddick Land 02/02/2022. Sent to Urban Green directly 15/02/2022, and chased up 14/03/2022. Estimate of 0 credits for LE05 on email from Mark Blacker 14/03/2022.		ECOLOGIST/ MAIN CONTRACTOR
		1	0	1	0	Landscape and Ecology Management Plan Development • 1 credit where a landscape and ecology management plan is developed in accordance with BS 42020:2013 and is in line with the relevant BREEM requirements.	Requirements issued to Ryan Lewis at Caddick Land 02/02/2022. Sent to Urban Green directly 15/02/2022, and chased up 14/03/2022. Estimate of 0 credits for LE05 on email from Mark Blacker 14/03/2022.		ECOLOGIST/ MAIN CONTRACTOR
Category score		13	4	4	5				

Category Weighting	15.00%			
% Score	15.00%	4.62%	4.62%	5.77%

Pollution								
Pol 01	Refrigerants	2	1	0	1	Refrigerants 3 credits where no refrigerants are to be used. OR if refrigerants are to be used: 2 credits where the direct effect life cycle CO₂ emissions are <100kgCO₂/kW OR all refrigerants used have a Global Warming Potential ≤ 10. 1 credits where the direct effect life cycle CO₂ emissions are <1000kgCO₂/kW.	Requirement included in M&E Requirements issued to CWC 03/05/2022.	M&E
		1	0	0	1	Leak Detection 1 credit where compliant refrigerant detection and pump-down system is installed.		M&E
Pol 02	Local Air Quality	2	0	0	2	Local Air Quality 2 credits where all heating and hot water is supplied by non-combustible systems, e.g. electric. OR - Up to 2 credits where the NOx emissions for the applicable appliance do not exceed the levels within the BREEAM requirements.		M&E
Pol 03	Flood & Surface Water Management	2	2	0	0	Flood Risk 2 credits for location of site within a low risk flood zone. 1 credit for location of site within a medium/high risk flood zone with appropriate flood remediation measures.	Requirements issued to Ryan Lewis at Caddick Land 02/02/2022. Resent to JPG 14/03/2022. Rechased 03/05/2022.	CIVILS
		1	1	0	0	Surface Water Run-off Rate 1 credit where the peak rate of surface water run-off is no greater for the developed than pre-developed site and it includes an allowance for climate change.	Requirements issued to Ryan Lewis at Caddick Land 02/02/2022. Resent to JPG 14/03/2022. Rechased 03/05/2022.	CIVILS
		1	0	0	1	Surface Water Run-off Volume, Attenuation and Limiting Discharge 1 credit where flooding will not occur in the event of a local drainage system failure, and the post-development run-off volume is no greater than for the existing site.	Requirements issued to Ryan Lewis at Caddick Land 02/02/2022. Resent to JPG 14/03/2022. Rechased 03/05/2022.	CIVILS
		1	0	0	1	Minimising Watercourse Pollution 1 credit where suitable watercourse pollution measures (SUDS or oil separators) are specified in line with Pollution Prevention Guidance 3 and the SUDS manual. In addition there is no discharge from site for rainfall up to 5mm.	Requirements issued to Ryan Lewis at Caddick Land 02/02/2022. Resent to JPG 14/03/2022. Rechased 03/05/2022.	-
Pol 04	Reduction of Night-Time Light Pollution	1	1	0	0	Light Pollution 1 credit for the design of the external lighting strategy to reduce light pollution from the development. All external lighting is to be able to be switched off between 2300-0700 hours.	Requirement included in M&E Requirements issued to CWC 03/05/2022.	M&E
Pol 05	Reduction of Noise Pollution	1	1	0	0	External Noise Attenuation 1 credit for appointing a 'Suitably Qualified Acoustician' to complete an external noise analysis to ensure building services plant will not disturb local noise-sensitive developments.	Requirements issued to Ryan Lewis at Caddicks and Alex Fulton at Quartz 03/05/2022.	ACOUSTICIAN
Category score		12	6	0	6			
Category Weighting		9.00%						
% Score		9.00%	4.50%	0.00%	4.50%			

Innovation								
Man 03	Responsible Construction Practices	1	0	0	1	Responsible Construction Management 1 credit for achieving all the responsible construction management items outlined in the BREEAM Manual.		MAIN CONTRACTOR
Hea 01	Visual Comfort	1	0	0	1	Daylighting 1 credit where 80% of occupied spaces have a daylight factor of 3%+.		-
		-	-	-	-	Internal & External Lighting Lighting in each zone can be manually dimmed by occupants down to 20% of the maximum light output.		-
Hea 02	Indoor Air Quality	-	-	-	-	Emissions From Construction Products 1 credit for 3 out of the 5 product specifications of internal finishes have met the exemplary testing requirements and emission levels for Volatile Organic Compounds (VOCs).		-
Hea 06	Security	1	0	0	1	Risk Based Security Rating A compliant risk based security rating scheme has been used and the performance has been confirmed by independent assessment and verification.		-

Ene 01	Reduction of Energy Use & Carbon Emissions	5	0	0	3	Zero Carbon to Carbon Negative • 3 credits where the building is carbon negative. • Up to 2 credits possible where a building achieves zero net CO ₂ emissions.			-
			0	0	2	Post Occupancy • Pre-requisite of achieving all available credits in Ene 02. • 2 credits where the client/building occupier commits funds to pay for post occupancy energy modelling based on the actual energy consumption compared with the targets set in the credit criteria.			-
Wat 01	Water Consumption	1	0	0	1	Potable Water Reduction • 1 credit for reducing potable water consumption by 65% over standard.			-
Mat 01	Building Life Cycle	3	1	0	0	Core Building Services • 1 credit where an LCA is carried out for core building services design options.		RIBA STAGE 2	SPECIALIST CONSULTANT
			0	1	0	LCA and LCC • Pre-requisite of achieving Elemental LCC plan and Component Level LCC credits of Man 02. • 1 credit where the LCA and LCC are aligned and incorporated within the design decision-making process.		RIBA STAGE 2	SPECIALIST CONSULTANT
			1	0	0	Third Party Verification • 1 credit where a suitably qualified third party either carries out the LCAs or produces a report verifying the LCAs produced accurately represent the designs under consideration during Concept Design and Technical Design.		RIBA STAGE 2	SPECIALIST CONSULTANT
Mat 03	Responsible Sourcing of Materials	1	0	0	1	Responsibly Sourced Materials • 1 credit based on the EMS certification of materials for their manufacture and supply chain processes such as production and abstraction, including building services.			-
Wst 01	Construction Waste Management	1	0	0	1	Site Waste Management Plan • 1 credit for the reduction of non-hazardous waste to be <1.6m ³ or 1.9 tonnes per 100m ² gross internal floor area. OR • 1 credit for 85% (volume) or 90% (mass) of non-hazardous construction waste is diverted from landfill.			-
Wst 02	Recycled Aggregates	1	0	0	1	Project Sustainable Aggregate Points • 1 credit where details of the appropriate aggregates identified are used to calculate project sustainable aggregate points greater than 6 in line with the BREEAM requirements.			-
Wst 05	Adaptation to Climate Change	1	0	0	1	Responding to Adaptation to Climate Change • 1 credit for achieving the following criteria points in addition to the standard Wst 05 requirements: - Criterion 6 of Hea 04 has been achieved, - At least 6 credits have been achieved under Ene 01, - The 'Passive Design Analysis' credit of Ene 04 has been achieved, - At least 3 credits have been achieved under Wat 01, - Criterion 2-4 of Mat 05 has been achieved, - At least 1 and 2 credits have been achieved under the 'Flood Risk' and 'Surface Water Run-off' requirements of Pol 03 respectively.			-
LE 02	Identifying & Understanding the Risks & Opportunities for the Project	1	0	0	1	Determine the Ecological Outcomes for the Site • 1 credit where the wider site sustainability-related activities are considered along with the potential for ecosystem service related benefits, in addition to; - The 2 credits of Hea 07 has been achieved, - Criteria 5-23 of Pol 03 has been achieved, - The 1 credit of Pol 05 has been achieved.			-
Category score			17	2	1	14			
Category Weighting						10.00%			
% Score			10.00%	2.00%	1.00%	14.00%			