

[illegible]

**Circular Economy Design Principles by Building Layer**  
The Circular Economy Commitments table should consider where the Applicant seeks to go beyond standard practice. If there are multiple phases / buildings / areas with different measures / strategies, please specify these separately within the table below

Bill of Materials		PROJECT AND CONSTRUCTION STAGE (MODULE A)															USE STAGE (MODULE B)										END OF LIFE STAGE (MODULE C)				BENEFITS BEYOND THE SYSTEM BOUNDARY (MODULE D)			
Please click the + symbol to the left hand side of the Bill of Materials table to view or hide the input rows for each Building Element Category. The rows for substructure and frame have been unhidden to highlight this.		Subtotal ELEMENT CATEGORY - LEVEL 1 based on the RICS New Rules of Measurement (NRM) classification system level 1 subcategory 0100 below please see also regional allowances website:imperial.ac.uk/date-products/bic-construction-standards-a-administrative-standard-form-cost-analysis-4th-edition-2017.html																																
Building Element Category		Material Type	Material quantity (Module A) (kg)	Material Intensity (Module A) (kg/m²/GA)	Performance Indicator (LFD Appendix 1)	Construction Waste Factor (Module A)	Construction Waste (Module A) (kg)	Recycled Content by mass (kg)	Recycled Content by value (%)	Expected Lifespan (years)	Number of Replacements (over assumed 90-year period)	Repair and Replacement quantities of materials (kg)	Construction Waste Factor (Module B)	Construction Waste (Module B) (kg)	Design for Disassembly	Assessed End of Life Scenario (Description)	% Recycling	% Recycling	% Landfill	Estimated reusable materials (kg)	Estimated reusable materials intensity (kg/m²/GA)	Estimated recyclable materials (kg)	Estimated recyclable materials intensity (kg/m²/GA)											
0.1	Non-fuelled: Tenants/Household/Commercial Material Treatment	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	0%	0%	100%	0	0	0	0											
0.2	Major Demolition Works	-	1,258,000	1,258	-	-	1,258,000	-	-	-	-	-	-	-	0	-	0%	0%	100%	0	0	0	0											
0.3	Temporary Support for Adjacent Structures	-	2,360,000	2,360	-	-	2,360,000	-	-	-	-	-	-	-	0	-	0%	0%	100%	0	0	0	0											
0.4	Generalised General Works	-	2,360,000	2,360	-	-	2,360,000	-	-	-	-	-	-	-	0	-	0%	0%	100%	0	0	0	0											
0.5	Substructure	-	2,360,000	2,360	-	-	2,360,000	-	-	-	-	-	-	-	0	-	0%	0%	100%	0	0	0	0											
2.1	Superstructure: Frame	Reinforced Concrete columns	148,750	148.75	Building Element Category 2.1.4b: Quilted	1	148,750	148,750	100%	80	1	148,750	1	148,750	0	-	0%	0%	100%	0	0	0	0											
2.1	Superstructure: Frame	Reinforced Concrete columns	148,750	148.75	Building Element Category 2.1.4b: Quilted	1	148,750	148,750	100%	80	1	148,750	1	148,750	0	-	0%	0%	100%	0	0	0	0											
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**Recycling and Waste Reporting table**  
The list green-coloured cells should be completed to achieve 'blonering' status

Circular Economy Targets				
Circular economy targets for existing and new development	Policy Requirement	Target Aiming For (%)	Policy Met?	Explanation (how will performance against targets be secured through design, implementation and monitoring)?
Circular economy targets for existing and new development	Policy Requirement	Target Aiming For (%)	Policy Met?	Explanation (how will performance against targets be secured through design, implementation and monitoring)?
Construction waste materials (non-hazardous)	Minimum of 85% directed from landfill for reuse, recycling or recovery.	85%	Yes	Quarry generated from demolition process from previous building has been fully off-set on site such as order for items of plug-in mat, enabling the sub-structure operations such as piling
Demolition waste materials	Minimum of 85% directed from landfill for beneficial reuse.	85%	Yes	Quarry generated from site will be the origin of civil works within the West London area such as H22 project.
Construction waste materials	Minimum of 85% directed from landfill for reuse, recycling or recovery.	85%	Yes	All construction waste will be collected from site, separated following the guidance of C&A regulations
Municipal waste	Minimum 65% recycling rate by 2020.	65%	Yes	All municipal waste will be collected from site, separated following the guidance of C&A regulations and disposed at authorised waste management centres.
Recycled content	Minimum 20% of the building material elements to be comprised of recycled or re-used content	20%	Yes	More than 20% of the materials used on site will be responsibly sourced
Additional requirements	Policy Requirement	Phase acknowledge acceptance for a planning condition	Phase not on indicative timeline and responsible party for the provision of this information	
Post Construction Reporting	A C&A Statement is required at post-construction (i.e. upon commencement of H&M Stage 2) and prior to the building being handed over to a responsible authority. Generally, it would be expected that the assessment would be completed on time from three months post-construction	It is accepted that the Post Construction Reporting will be coordinated with the		We understand to maintain the reporting process on regular basis to formal communication with GLA, UPA. We also will be as Principal contractor (Charles Edwards Ltd) the provision of training information throughout the whole project period.

### Circular Economy Targets

Solid Economy Leaps				
Consider economy leaps for existing new development	Policy Response	Target Aiming For (%)	Policy Met?	Explanation (How will performance against this metric be secured through design, implementation and monitoring?)
Excavation waste materials (non-hazardous)	Minimum of 95% diverted from landfill for reuse, recycling or recovery.	95%	Yes	Quarterly generated from demolition projects from previous building has been fully utilised on site such as voids for form of piling mat, enabling the sub-structure construction such as slurry
Excavation waste materials	Minimum of 95% diverted from landfill for beneficial reuse.	95%	Yes	Quarterly reported from site will be the object of various civil works within the West Coast area such as P22 project.
Construction waste materials	Minimum of 95% diverted from landfill for reuse, recycling or recovery.	95%	Yes	All construction waste will be collected from site, separated following the guidance of GLA regulations
Municipal waste	Minimum 65% recycling rate by 2020.	65%	Yes	All municipal waste will be collected from site, separated following the guidance of GLA regulations and disposed at authorised waste management centres.
Recycled content	Minimum 20% of the building material elements to be comprised of recycled or re-used content.	20%	Yes	More than 20% of the materials used on site will be re-usable sourced
Additional requirements	Policy Response	Phase acceptance/acceptance for planning condition		Phase set out indicative intentions and responsible party for the provision of this information
Post Construction Report	A CEE Statement of post-construction (i.e. upon commencement of RIBA Stage 6) and prior to the building being handed over to the applicable Community, it would be expected that the statement would be assessed to meet more than three specific post-construction	It is expected that the Post Construction Reporting will be considered		We undertake to monitor the recycling process on regular basis to formal communication with GLA, ULA. We also will be Principal contractor (Charles Edwards Ltd) the provider of training information concerning the whole project process.