

BENNETTS ASSOCIATES

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Project Edinburgh Futures Institute (EFI)
Typology Education / Workspace
Location Quartermile, Edinburgh. UK
GIA 20,660 m²

RIBA Workstage 5
Calculation Method One Click LCA RICS Aligned (External)
Prepared by Cundall (15.08.2023)
Checked by HS (12.02.2024)

Project Overview

EFI at Quartermile is a major new facility for the University of Edinburgh. Starting in 2015, the project revives the former Royal Infirmary, a category A listed building. The assessment was performed by Cundall for Bennetts Associates in August 2023 with quantities based upon Tender, Stage 5 BIM Models, Demolition Information and Material Specifications. The A1-A5 results are aligned to LETI's reporting template.

		Embodied Carbon per Module per Building Element (kgCO ₂ e/m ² GIA)							
	Building Element	A1-A3	A1-A3 (Seq.)	A4	A5	A1-A5	% Cont.	Contingency	Notes / Comments
Demolition	Toxic Material Treatment	0	0	0	0	0	0	0	
	Major Demolition Works	0	0	0	0	0	0	0	
Facilitating Works	Temporary/ Enabling Works	0	0	0	0	0	0	0	
	Specialist Ground works	0	0	0	0	0	0	0	
Substructure	Substructure	-	0	-	-	37	0	0	
Superstructure	Frame	-	-3	-	-	36	0	0	
	Upper Floors	-	0	-	-	15	0	0	
	Roof	-	0	-	-	12	0	0	
	Stairs and Ramp	-	-1	-	-	23	0	0	
	External Walls	-	0	-	-	7	0	0	
	Windows and External Doors	-	-1	-	-	20	0	0	
	Internal Walls and Partitions	-	-10	-	-	45	0	0	
	Internal Doors	-	0	-	-	0	0	0	Int. Doors included in 'Internal Walls and Partitions' above.
Finishes	Wall Finishes	-	-	-	-		0	0	
	Floor Finishes	-	-15	-	-	52	0	0	Finishes reported in aggregated total.
	Ceiling Finishes	-	-	-	-		0	0	
FF&E	FF&E (Fixed)	-	0	-	-	0	0	0	Shows as nil with rounding (0.1).
	FF&E (non-fixed)	-	-	-	-	0	0	0	Excluded from Total
Building Services	Building Services	-	0	-	-	81	0	0	
	Renewable Electricity Generation	-	-	-	-	0	0	0	Excluded from Total
Works to Existing Building	Pre-fab Building Units	-	0	-	-	0	0	0	
	Minor Demolition and Alterations	-	0	-	-	0	0	0	
External Works	External Works	-	-	-	-	54	0	0	Excluded from Total
Site (A5)	Site Activities	-	-	-	32	32	0	0	'Site Activities' have been included here for reporting [1].
SUBTOTAL		N/A	-31	N/A	N/A				
TOTAL A1-A5						361	+	0	kgCO ₂ e/m ²

Summary and Comparison to LETI Benchmark

Upfront Carbon	B	361	kgCO ₂ e/m ²	(A1-A5) Excludes Sequestration
Sequestered Carbon		-31	kgCO ₂ e/m ²	(A1-A3)

Additional Notes

[1] Note that site activities (A5) were calculated separately in the Cundall Report and therefore, to align to the LETI reporting template, these have been included in a separate line item. In reality, these emissions will relate to site works across all above elements with differing contributions.

[2] No contingency is included in a Stage 5 'as-built' report.