Bennetts Associates

Upfront Carbon (A1-A5) Summary

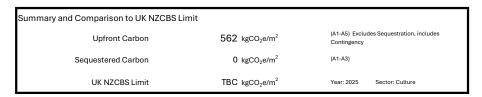
Project King's Theatre
Typology Culture (Performance)
Location Edinburgh, UK
GIA 4,739 m²
NIA (Existing | New) 4,319 m² | 420 m²

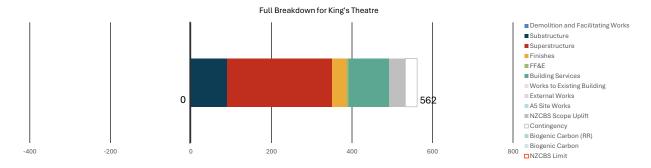
RIBA Workstage RIBA Stage 5
Calculation Method Other RICS Aligned (External)
Prepared by Cundall (10.2021)
Checked by HS (10.03.2025)

Project Overview

The King's Theatre is one Scotland's most important cultural venues. Having opened in 1906, it had undergone two major refurbishments prior to Bennetts Associates most recent work (1950, 1985). The scope includes an extension and upgrade to the fly tower, refurbishment of back of house areas and upgrades to the auditorium. The assessment was undertaken by Cundall for the Net Zero Theatres Study in 2021 using Stage 4 level of information. The A1-A5 results were aligned to LETI reporting originally, but have been adapted to meet the scope requirements for the UK NZCBS.

Г	Upfront Carbon per Module per Building Element (kgCO₂e/m² GIA)								
	Building Element	A1-A3	A1-A3 (Seq.)	A4	A5.3	A1-A5	% Cont.	Contingency	Notes / Comments
Demolition and Facilitating Works	Toxic Material Treatment	0.0	0.0	0.0	0.0	0	6	0	
	Major Demolition Works	0.0	0.0	0.0	0.0	0	6	0	
	Facilitating Works	0.0	0.0	0.0	0.0	0	6	0	
Substructure	Foundations and piling				_	90	6	5	Substructure reported in aggregat
	Retaining walls / lowest slab	-	-	-	-	90		3	total.
Superstructure	Frame	-	-	-	-	113	6	7	
	Upper Floors	-	-	-	-	29	6	2	
	Roof	-	-	-	-	12	6	1	
	Stairs and Ramp	-	-	-	-	54	6	3	
	External Walls and Roof Finish	-	-	-	-	22	6	1	
	Windows and External Doors	-	-	-	-	2	6	0	
	Internal Walls and Partitions	-	-	-	-	28	6	2	
	Internal Doors	-	-	-	-	2	6	0	
Finishes	Wall Finishes	-	-	-	-	5	6	0	
	Floor Finishes	-	-	-	-	24	6	1	
	Ceiling Finishes	-	-	-	-	7	6	0	
FF&E	FF&E (Fixed)	-	-	-	-	5	6	0	
	FF&E (non-fixed)	-	-	-	-	0	-	-	Scope Uplift
Building Services	Building Services	-	-	-	-	101	6	6	
	Renewable Energy Generation	0.0	0.0	0.0	0.0	0	6	0	Excluded from Scope for Sector
Works to Existing Building	Pre-fab Building Units	0.0	0.0	0.0	0.0	0	6	0	
	Minor Demolition and Alterations	0.0	0.0	0.0	0.0	0	6	0	
External Works	External Works	-	-	-	-	15	-	-	Excluded from Scope for Sector
A5 Site Works	A5.1 Demolition	-	-	-	-	-	-	-	
	A5.2 Site Activities		-	-	-	-	-	-	Included in A1-A5 totals.
	A5.4 Workers and Transport	-	-	-	-	-		-	Not reported (optional)
	SUBTOTAL	N/A	0	N/A	N/A	492	+	30	
	NZCBS Scope Uplift (if reqd.)					40			Uplift for loose FFE.
	TOTAL A1-A5					532	+	30	kgCO ₂ e/m ² GIA





Additional Notes

The data breakdown is provided in the most granular form available, based upon the original reporting document.