

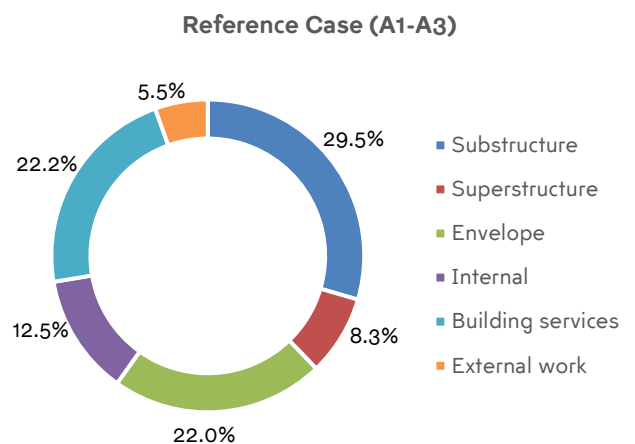
5.0 Appendix A- NABERS Embodied Emissions Declaration

This section presents an embodied emissions quantification for the project based on the material quantities input provided by the Quantity Surveyor using the NABERS Embodied Emissions Form.

At a later design stage, once the design is finalised and confirmed material quantities and specifications are available, a detailed upfront carbon assessment will be undertaken to quantify the reduction in upfront embodied carbon emissions achieved relative to the reference case. At this stage, the project is targeting a minimum 10% reduction in upfront embodied carbon emissions.

Summary of NABERS Embodied Emission Materials form - Reference case

Emissions per life cycle module		
Module	Reference Emissions	
	t CO ₂ e	kg CO ₂ e/m ²
Materials, A1-A3	3,647.35	516.33
Transport, A4	-	-
Construction, A5	383.90	54.35
A5 - Energy		
A5 - Waste		
A5 - Land use and land use change		
Total emissions, A1-A5		570.68
Emissions per building section (A1-A3)		
Section	Reference Emissions	
	t CO ₂ e	kg CO ₂ e/m ²
Site preparation	-	-
Substructure	1,076.35	152.37
Superstructure	302.52	42.83
Envelope	803.99	113.81
Internal	455.65	64.50
Building services	809.73	114.63
External work	199.10	28.18
Total emissions, A1-A3	3,647.35	516.33



5.1 NABERS Embodied Emission Materials Form

NABERS

Upfront Embodied Carbon Calculator

Material quantities

Enter all material quantities in this tab. Where product-specific emission factors are available, a new material category must be added to the 'Product specific EFs' tab before it can be selected here. You can create groups of materials that are consistently used for curtain walls, windows, or doors in the 'Custom assemblies' tab, which you can then select under the 'Custom assembly' material type.

Cell colour key:

Required

Optional

For reference

Error

Required columns are also marked with an asterisk *

Would you like to add an explanation for anything in this table?

Click the + button to the left to view a worked example

Materials (bill of quantities)

Provide a list of all the materials used in the building. See NABERS EC Rules section 7.3 for guidance on what materials to include in the rating.

All of the materials used in the building. See NABERS EC Rules section 7.3 for guidance on what materials to include in the rating.		▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ (i)	▼ 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