



NABERS Embodied emissions materials form

New non-residential developments must complete this form

From 1 October 2023, all new non-residential developments must report on embodied emissions using this form in NSW, where the NSW government's State Environmental Planning Policy (Sustainable Buildings SEPP) 2022 applies. You must disclose the amounts of key materials at the development application and construction certificate stages.

More on the Sustainable Buildings SEPP

Embodied carbon emissions are generated across the full life cycle of a building from "cradle to grave". Embodied carbon made up 16% of the whole-of-life carbon footprint of Australia's buildings in 2019 [1]. The purpose of this form is to report on material quantities only, to support project team discussions about potential reduction in emissions from key materials. The form does not include embodied emissions factors. This reporting form will be updated to reflect the NABERS Embodied Carbon tool when it's available in 2024.

Step 1: About the building

In the 'About the building' tab, you will add the location, function, and type of building you are planning to construct. You will also need to add information that describes the building, including gross floor area, number of floors, area of carpark, and more. Collecting this information will allow the NSW Government to compare similar buildings.

Step 2: Quantity of materials

In the 'Quantity of materials' tab, you will add the amounts of materials that you will use to construct your building. You only need to complete those fields relevant to your building. Leave fields that aren't relevant to your building blank. We recognise that there will be uncertainty, particularly at DA stage, so please use your best estimates where information is unknown (e.g., based on past projects).

How much do I need to include?

You must include all parts of the building delivered by the main contractor, covering at least 80% of the total materials bill. For example, if you spent \$100,000 on materials, you need to include the material amounts of at least \$80,000 of those materials in this form

Wherever possible, consider materials costs only, not labour, plant or equipment. However, where you cannot split out the materials costs, please simply be consistent in the way the costs are reported throughout the spreadsheet.

Enter the costs of materials (excluding labour, plant, equipment, margins and taxes) for:

- (1) Structure (substructure and superstructure) within the envelope of the building. Also include any ancillary buildings that are necessary for the main building to function (for example, plant that is in a separate building).
- (2) Envelope (cladding, curtain walls, roofing, windows, doors etc.)
- (3) Permanent internal walls and doors. At minimum, this should include all structural walls.
- (4) External works (hard landscaping, carparks, etc.) outside of the building envelope.

Enter the cost materials (excluding labour, plant, equipment, margins and taxes) for:

(5) Building services (mechanical, electrical, plumbing, vertical transport, etc.) required to run the core of the building. Exclude special equipment required by a particular tenant.

You must enter the amounts of materials in SI units (commonly known as the metric system). These are generally consistent across the various products on the market. However, you might need to convert the units of some materials (for example, convert volume to kg).

Step 3: Certifier details

In the 'Certifier' tab you will add the details of the person who has entered data, and the person who has certified the accuracy of the data. The certifier must be a quantity surveyor, designer, engineer or NABERS assessor.

Step 4: Attach to approval

Attach this Excel spreadsheet to your development application or construction certificate application.

The data collected in this form will be used by the NSW Government to inform future policy development.

Help!

If you have general questions about reporting on the embodied emissions of your building, you should contact your local council or consent authority.

nabers@environment.nsw.gov.au		

If you have technical questions about this spreadsheet, please contact NABERS:

[1] Green Building Council of Australia, 2021, https://new.gbca.org.au/news/gbca-news/gbca-and-thinkstep-release-embodied-carbon-report/

Step 1: About the building Fill out blue cells Building location and site data 1&3 Careel Head Road Avalon Beach NSW Building address Postcode Required ostcode of building AVALON + 10 other localities Town/city/suburb/region of the building site. Declare the shortest route by road to your site from the centre of your nearest major city (>100,000 people). The route must be traversable by semitrailer truck. Town/city own/city/suburb/region automated from postcode (may not give exact town name) Distance to nearest major city/town nter for rural/regional locations only Development Application Project stage Stage of development New build Brownfield or greenfield site? Floor area by NCC building classification Net (NLA/NSA/UFA) Unit Gross (GFA) Please enter all floor areas relevant to your building. Leave areas blank if not applicable. Please enter Gross Floor Area (GFA) for all building classifications. Please also enter the corresponding net area (Net Lettable Area, Net Sellable Area or Usable Floor Area) where it is commonly used for that building classification cross Floor Area (GFA), as defined by the AIQS Australian Cost Management Manual Required for Class 1b: Boarding house, guest house, hostel Required for Class 2: Multi-unit residential, including apartment buildings Net area (Net Lettable Area, Net Sellable Area, Usable Floor Area), as defined by the PCA's Method of Measurement Class 1b: Boarding houses and hostels Class 2: Multi-unit residential buildings Class 3: Other residential buildings Required for Class 3: Other residential buildings equired for Class 4: Residential building inside a non-residential building, e.g., caretaker re Class 5: Office buildings Required for Class 5: Office building Class 6: Retail buildings equired for Class 6: Retail building, e.g., shop, restaurant, café Required for Class 7a: Carparks Class 7a: Carparks Class 7b: Warehouse-type buildings Required for Class 7b: Warehouses, wholesalers and storage facilities Class 8: Industrial buildings Required for Class 8: Industrial buildings, e.g., factories and workshops tequired for Class 9a: Healthcare, e.g., hospitals, clinics, day surgeries Class 9a: Healthcare buildings Required for Class 9b: Civic buildings, e.g., theatres, civic centres, train stations Class 9b: Civic buildings 353 35 Class 9c: Aged care and personal care buildings dequired for Class 9c: Aged care and personal care Required for Class 10a: Non-habitable buildings including sheds, carports and private garages Required for Class 10b: Miscellaneous structures, including fences, masts, antennas, retaining walls and swimming pools Class 10a: Non-habitable buildings Class 10b: Miscellaneous structures Class 10c: Bushfire shelters Required for Class 10c: Bushfire shelters not attached to a Class 1a building Total 1,035 1,011 m Required: Sum of m² inputs must be more than 0. Project information Value 6,588,080 AUD excl. GST nclude labour, materials, transport, plant, equipment and professional fees. Exclude GST, land, finance, escalation and other costs. Building design life Required f uncertain, enter 50 years Estimated replacement cycle for mechanical services Estimated replacement cycle for vertical transportation Dimensions of the building and the site 1,770 Site area Required Total area of site to external boundary. ate if there are shared services that the building utilises, or shared foundations, basement or podium 1,528 otal floor area of the ground floor measured to the outside edge of the floorplate. Building footprint area Required Typical floor area (if different to building footprint area) Only needed if different to row above ypical floor perimeter Area of external carpark (not included in GFA) 148 Required. Enter 0 if not applicable. Area of external hardstand (not included in GFA) 612 Required. Enter 0 if not applicable. nclude all other impervious areas. For example, patios, paths and driveways (not already included in carparks and hardstands above). rea of other hard landscaping (not included in GFA) tequired. Enter 0 if not applicable. Number of floors/storeys above ground, including ground floor Number of floors/storeys below ground Required. Enter 0 if not applicable.

Measured from the average finished grade to the highest point of the building, excluding protrusions (lighting rods, masts, chimneys, etc.)

Required. Enter 0 if not applicable.

Only needed for multi-storey buildings

Required

Required

equired

Number of floors/storeys of car parking Total height above ground

Describe recycled content specified in your building

Slab-on-ground

Reinforced concrete

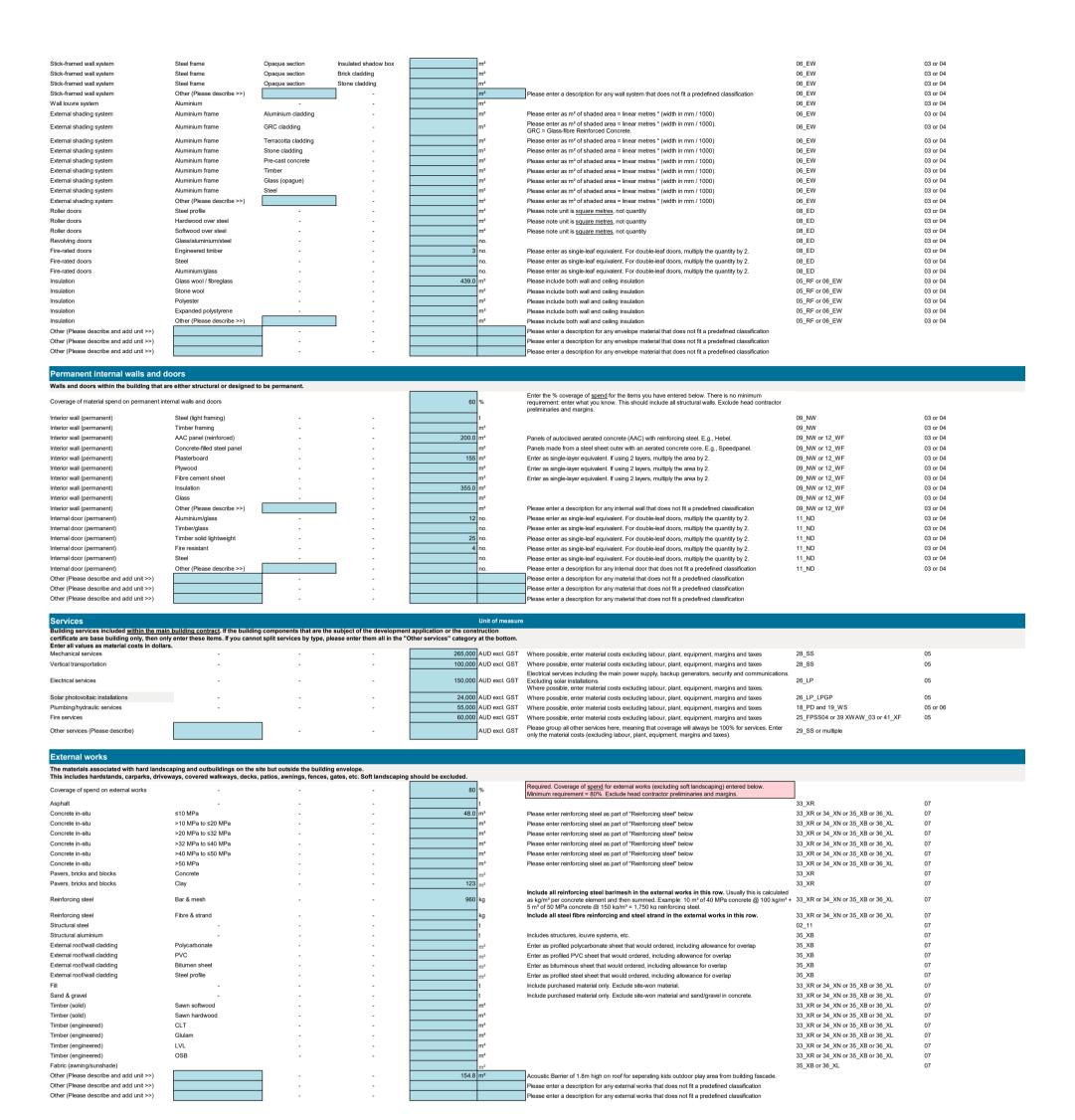
The project intend to be constructed using post tensioned slab structure there by reducing concrete volume and stee mass in comparsion with a conventional reinforced slab

Wherever required einforcing Bar and Mesh products shal have a minimum of 90% recycled content.

Structural material choices

Frame type (dominant)

	to the building. Leave items that							
Material category	Sub-category 1	Sub-category 2	Sub-category 3	Value	Unit of measure	Comment	AIQS ACMM Code	ICMS3 (Level 3 Codes Constru
Structure	holow ground (substructure)	and above ground (cuper	ctructure)					
The structural parts of the building that are This includes fill below the substructure, for It excludes external areas such as hardstar	oundations, basement levels, s			lift shafts and balconies.				
Coverage of structural material spend	-	-	-	85	%	Required. Coverage of <u>spend</u> for structural elements entered below. Minimum requirement = 80%. Exclude head contractor preliminaries and margins.		
Concrete in-situ Concrete in-situ	≤10 MPa >10 MPa to ≤20 MPa	-	-	78.0	m³ m³	Please enter reinforcing steel as part of "Reinforcing steel" below Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11 01_SB or 02-11	02 or 03 02 or 03
Concrete in-situ	>20 MPa to ≤32 MPa	-	-	1,085.0	m³	Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11 01_SB or 02-11	02 or 03
Concrete in-situ Concrete in-situ	>32 MPa to ≤40 MPa >40 MPa to ≤50 MPa	-	-		m ³	Please enter reinforcing steel as part of "Reinforcing steel" below Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03 02 or 03
Concrete in-situ Concrete in-situ	>50 MPa to ≤60 MPa >60 MPa to ≤80 MPa	-	-		m³ m³	Please enter reinforcing steel as part of "Reinforcing steel" below Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11 01_SB or 02-11	02 or 03 02 or 03
Concrete in-situ Concrete in-situ	>80 MPa to ≤100 MPa >100 MPa				m³	Please enter reinforcing steel as part of "Reinforcing steel" below Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11 01_SB or 02-11	02 or 03 02 or 03
Concrete pre-cast panel	-	-	-		m³	Please enter reinforcing steel in relevant line items below. If not known at DA stage, please make your best estimate. If not known at CC stage, please ask your supplier.	01_SB or 02-11	02 or 03
Concrete block	Hollow core	-	-		m³	Enter as <u>cubic metres</u> , calculated as (area in m²) * (thickness in mm / 1000). Please include all block fill concrete and all reinforcing steel in relevant line items above/below.	01_SB	02 or 03
Concrete block/brick	Solid	-	-	417.0	m³	Enter as <u>cubic metres</u> , calculated as (area in m²) * (thickness in mm / 1000)	01_SB	02 or 03
Concrete block/brick	Solid AAC	-	-		m³	Solid Aerated Autoclaved Concrete (AAC) block. Enter as <u>cubic metres</u> , calculated as (area in m²) * (thickness in mm / 1000).	01_SB	02 or 03
Mortar		-	-	251,079	-	Include all reinforcing steel bar/mesh in the building's structure in this row. Usually this is	01_SB	02 or 03
Reinforcing steel	Bar & mesh	•	-	68,220	kg	calculated as kg/m³ per concrete element and then summed. Example: 10 m³ of 40 MPa concrete @ 100 kg/m³ + 5 m³ of 50 MPa concrete @ 150 kg/m³ = 1,750 kg reinforcing steel.	01_SB or 02-11	02 or 03
Reinforcing steel Structural steel	Fibre & strand Hot rolled structural	-	-		kg t	Include all steel fibre reinforcing and steel strand in the building's structure in this row. Examples include universal beams, universal columns and welded beams	01_SB or 02-11 01_SB	02 or 03 02 or 03
Structural steel Structural steel	Cold formed structural Other welded structural	-	-		t t	Examples include C purlins, Z purlins and all light gauge steel framing	01_SB 01_SB	02 or 03 02 or 03
Structural steel	Plate Sheet	-			t •	Include any allowance for connections here	01_SB 01_SB	02 or 03 02 or 03
tainless steel	-		-		t	Primarily for engineered timber structure connections	02_11	02 or 03
teinforced concrete piles	Concrete	-	•		m³	Please enter reinforcing steel in the line below. If not known at DA stage, please make your best estimate. If not known at CC stage, please ask your supplier.	01_SB	02 or 03
einforced concrete piles	Steel reinforcing				kg	If not known at DA stage, please make your best estimate. If not known at CC stage, please ask your supplier.	01_SB	02 or 03
teel piles imber poles/piles	-				t m³	Where concrete and reinforcing steel are also used, enter these in the rows above. Where concrete and reinforcing steel are also used, enter these in the rows above.	01_SB 01_SB	02 or 03 02 or 03
imber (solid)	Sawn softwood	-			m³		02_11	02 or 03
imber (solid) imber (engineered)	Sawn hardwood CLT	:	-		m ³		02_11 02_11	02 or 03 02 or 03
imber (engineered) imber (engineered)	Glulam LVL		•		m³ m³		02_11 02_11	02 or 03 02 or 03
Timber (engineered)	OSB Heat cured		-		m³ m³	Enter as <u>cubic metres</u> , calculated as (area of wall in m²) * (thickness in mm / 1000) Enter as <u>cubic metres</u> , calculated as (area of wall in m²) * (thickness in mm / 1000)	02_11 02_11	02 or 03 02 or 03
tructural Insulated Panel (SIP)	Steel outer		•		m²	And the same of th	01_SB	02 or 03
tructural Insulated Panel (SIP) tructural Insulated Panel (SIP)	Aluminium outer Engineered timber outer		-		m² m²		01_SB 01_SB	02 or 03 02 or 03
ill and & gravel	-		-		t t	Include purchased material only. Exclude site-won material. Include purchased material only. Exclude site-won material and sand/gravel in concrete.	01_SB 01_SB	01 01
aterproofing membrane	Bituminous	-	-	387		model parameter material only. Excited site-worth actual and same grave in consiste.	01_SB	01 or 02 or 03
Vaterproofing membrane Other structural (Describe and add unit >>)	Polyethylene	_ :	:	2,369	mi*	Please enter a description for any structural material that does not fit a predefined classification	01_SB	01 or 02 or 03
Other structural (Describe and add unit >>) Other structural (Describe and add unit >>)		- :				Please enter a description for any structural material that does not fit a predefined classification Please enter a description for any structural material that does not fit a predefined classification		
nvelope he skin of the building that separates the	internal building from the exte	ernal environment.						
his includes the roof cladding, wall claddi			o includes insulation and the			Required. Coverage of spend for the envelope items you have entered below.	1	
overage of envelope material spend	-	-	-	80	%	Minimum requirement = 80%. Exclude head contractor preliminaries and margins. Enter as m ² of roof area. Exclude allowances for overlap in the roofing sheets. This row includes all		
oof cladding	Profiled steel	-			m²	metal-coated and pre-painted steel sheets where steel is the base metal. Examples include: galvanised steel, zinc-aluminium (zincalume) coated steel and zinc-aluminium-magnesium (ZAM) coated steel,	05_RF	03 or 04
oof cladding	Profiled aluminium				m²	whether painted or unpainted. $\label{eq:continuous}$ Enter as m^2 of roof area, Exclude allowances for overlap in the roofing sheets. This row also includes	05_RF	03 or 04
oof cladding	Profiled zinc				m²	pre-painted aluminium sheets. Enter as m² of roof area. Exclude allowances for overlap in the roofing sheets. This row also includes	05 RF	03 or 04
oof cladding	Membrane				m²	pre-painted zinc sheets. Enter as m² of roof area. Exclude allowances for overlap in the membrane sheets.	05_RF	03 or 04
oof cladding oof cladding	Tiles (traditional clay) Tiles (concrete)	-			m² m²	Enter as m² of roof area. Exclude allowances for overlap between the tiles. Enter as m² of roof area. Exclude allowances for overlap between the tiles.	05_RF 05_RF	03 or 04 03 or 04
oof cladding	Other (Please describe >>)	_	-		m²	Please enter a description for any roofing that does not fit a predefined classification	05_RF	03 or 04
Vall cladding	Bricks (heat cured)				m²	Enter as m² of wall area. Heat-cured bricks use a kiln or furnace to raise the brick temperature above ambient temperature during curing process.	06_EW	03 or 04
Nall cladding Nall cladding	Bricks (air dried) Bricks (under fired)				m² m²	Enter as m² of wall area. Air-dried bricks are cured using ambient temperature. Enter as m² of wall area.	06_EW 06_EW	03 or 04 03 or 04
Vall cladding	Bricks (concrete)	-	-	1,037		Enter as m² of wall area	06_EW	03 or 04
Vall cladding	Mortar and render			51,850	kg	Enter as m² of wall area. Exclude allowances for overlap in the cladding sheets, offcuts, etc. This row	06_EW	03 or 04
Wall cladding	Profiled steel				m²	Litter as in vital and a Lacture and an analysis of the state of the s	06_EW	03 or 04
Wall cladding	Profiled aluminium	-	-		m²	Enter as m² of wall area. Exclude allowances for overlap in the cladding sheets, offcuts, etc. This row also includes pre-painted aluminium sheets.	06_EW	03 or 04
Wall cladding	Profiled zinc				m²	Enter as m² of wall area. Exclude allowances for overlap in the cladding sheets, offcuts, etc. This row also includes pre-painted zinc sheets.	06_EW	03 or 04
Vall cladding	GRC cladding							
					m²	Enter as m² of wall area. GRC = Glass Reinforced Concrete.	06_EW	03 or 04
*	Timber weatherboards	-			m² m²	Enter as m² of wall area. Exclude allowances for overlap between weatherboards, offcuts, etc.	06_EW	03 or 04
/all cladding /all cladding	Fibre cement board Terracotta	:	- - - -		m ² m ² m ²	Enter as m² of wall area. Exclude allowances for overlap between weatherboards, offcuts, etc. Enter as m² of wall area. Exclude allowances for offcuts, etc. Enter as m² of wall area. Exclude allowances for offcuts, etc.	06_EW 06_EW 06_EW	03 or 04 03 or 04 03 or 04
Vall cladding Vall cladding Vall cladding	Fibre cement board Terracotta Brick tiles / veneers				m ² m ² m ² m ² m ² m ²	Enter as m² of wall area. Exclude allowances for overlap between weatherboards, offcuts, etc. Enter as m² of wall area. Exclude allowances for offcuts, etc. Enter as m² of wall area. Exclude allowances for offcuts, etc. Enter as m² of wall area. Exclude allowances for offcuts, etc. Enter as m² of wall area. Exclude allowances for offcuts, etc.	06_EW 06_EW 06_EW 06_EW	03 or 04 03 or 04 03 or 04
Vall cladding Vall cladding Vall cladding Vall cladding	Fibre cement board Terracotta Brick tiles / veneers Plasterboard				m² m² m² m² m²	Enter as m² of wall area. Exclude allowances for overlap between weatherboards, offcuts, etc. Enter as m² of wall area. Exclude allowances for offcuts, etc. Enter as m² of wall area. Exclude allowances for offcuts, etc. Enter as m² of wall area. Exclude allowances for offcuts, etc. Enter as m² of wall area. Exclude allowances for offcuts, etc. Include both external wall linings and internal wall linings for envelope walls. Enter as m² of wall area. Exclude allowances for offcuts, etc. Include both external wall linings and	06_EW 06_EW 06_EW 06_EW 12_WF or 06_EW	03 or 04 03 or 04 03 or 04 03 or 04
Vall cladding Vall cladding Vall cladding Vall cladding Vall cladding	Fibre cement board Terracotta Brick tiles / veneers	: : : : : :			m² m² m² m² m² m² m² m² m²	Enter as m² of wall area. Exclude allowances for overlap between weatherboards, offcuts, etc. Enter as m² of wall area. Exclude allowances for offcuts, etc. Enter as m² of wall area. Exclude allowances for offcuts, etc. Enter as m² of wall area. Exclude allowances for offcuts, etc. Enter as m² of wall area. Exclude allowances for offcuts, etc. Include both external wall linings and Internal wall linings for envelope walls.	06_EW 06_EW 06_EW 06_EW	03 or 04 03 or 04 03 or 04 03 or 04
Vall cladding	Fibre cement board Terracotta Brick tiles / veneers Plasterboard Plywood Other (Please describe >>) Aluminium frame	Single glazed		247	m² m² m² m² m² m² m² m² m²	Enter as m² of wall area. Exclude allowances for overlap between weatherboards, offcuts, etc. Enter as m² of wall area. Exclude allowances for offcuts, etc. Enter as m² of wall area. Exclude allowances for offcuts, etc. Enter as m² of wall area. Exclude allowances for offcuts, etc. Enter as m² of wall area. Exclude allowances for offcuts, etc. Enter as m² of wall area. Exclude allowances for offcuts, etc. Include both external wall linings and internal wall linings for envelope walls. Enter as m² of wall area. Exclude allowances for offcuts, etc. Include both external wall linings and internal wall linings for envelope walls. Please enter a description for any wall cladding that does not fit a predefined classification include all single glazing, including standard, toughened, laminated and low-E	06_EW 06_EW 06_EW 06_EW 12_WF or 06_EW 12_WF or 06_EW 06_EW or 12_WF 07_WW or 08_ED	03 or 04 03 or 04 03 or 04 03 or 04 03 or 04 03 or 04 03 or 04
/all cladding /indows & doors /indows & doors /indows & doors	Fibre cement board Terracotta Brick tiles / veneers Plasterboard Plywood Other (Please describe >>) Aluminium frame Aluminium frame	Double glazed Triple glazed		217	m²	Enter as m² of wall area. Exclude allowances for overlap between weatherboards, offcuts, etc. Enter as m² of wall area. Exclude allowances for offcuts, etc. Enter as m² of wall area. Exclude allowances for offcuts, etc. Enter as m² of wall area. Exclude allowances for offcuts, etc. Enter as m² of wall area. Exclude allowances for offcuts, etc. Enter as m² of wall area. Exclude allowances for offcuts, etc. Include both external wall linings and internal wall linings for envelope walls. Enter as m² of wall area. Exclude allowances for offcuts, etc. Include both external wall linings and internal wall linings for envelope walls. Please enter a description for any wall cladding that does not fit a predefined classification include all single glazing, including standard, toughened, laminated and low-E include all triple glazing, including standard, toughened, laminated and low-E include all triple glazing, including standard, toughened, laminated and low-E	06_EW 06_EW 06_EW 06_EW 12_WF or 06_EW 12_WF or 06_EW 06_EW or 12_WF 07_WW or 08_ED 07_WW or 08_ED 07_WW or 08_ED	03 or 04 03 or 04
rall cladding rindows & doors rindows & doors rindows & doors rindows & doors	Fibre cement board Terracotta Brick tiles / veneers Plasterboard Plywood Other (Please describe >>) Aluminium frame Aluminium frame	Double glazed		217	m* m	Enter as m² of wall area. Exclude allowances for overlap between weatherboards, offcuts, etc. Enter as m² of wall area. Exclude allowances for offcuts, etc. Enter as m² of wall area. Exclude allowances for offcuts, etc. Enter as m² of wall area. Exclude allowances for offcuts, etc. Enter as m² of wall area. Exclude allowances for offcuts, etc. Include both external wall linings and internal wall linings for envelope walls. Enter as m² of wall area. Exclude allowances for offcuts, etc. Include both external wall linings and internal wall linings for envelope walls. Enter as m² of wall area. Exclude allowances for offcuts, etc. Include both external wall linings and internal wall linings for envelope walls. Please enter a description for any wall cladding that does not fit a predefined classification include all single glazing, including standard, toughened, laminated and low-E Include all double glazing, including standard, toughened, laminated and low-E	06_EW 06_EW 06_EW 06_EW 12_WF or 06_EW 12_WF or 06_EW 06_EW or 12_WF 07_WW or 08_ED 07_WW or 08_ED	03 or 04 03 or 04
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The material quantities must be determined through an itemised list of building materials (such as a bill of quantities) and certified by a quantity surveyor, designer, engineer or NABERS Assessor.

Person that completed this form	Value	Note
Name	UPKAR AGARWAL	Required
Company	DYNAMIC OPTIMUM	Required
ABN	13525711386	
Profession	NABERS ASSESSOR	Required
Qualification or registration	MECHANICAL ENGINEER	Required

Person that certified the details in this form	Value	Note
Name	UPKAR AGARWAL	Required
Company	DYNAMIC OPTIMUM	Required
ABN	13525711386	
Profession	NABERS ASSESSOR	Required
Qualification or registration	MECHANICAL ENGINEER	Required

Confirmation of certification	Value	Note
Are 80% of material costs captured for the building's structure, envelope and external works?	Yes	Required
If no - why not?		

Additional comments from data provider

Cost of construction & services involved has been aarived from Qunaity Surveyor report (draft) from RICQS dated 12/07/2024

Additional comments of certifier

Material specification and quantities have been calculated from arhitectural layout drawing nos. DA1005, 1100, 1101,1102,1103, 2001, 2002, 2003, 3001, 3002, 4001, 8001& 8003 all rev A dated June 2024

Attach this Excel spreadsheet to your development application or construction certificate application.