

NSW Government 4 Parramatta Square Parramatta NSW 2150 nabers.gov.au

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 quantity 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 of 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.

If you have technical questions about this spreadsheet, please contact NABERS: nabers@environment.nsw.gov.au

[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	Value		Unit	Note	
Building address	24 Mclaurin Rd, Ettamogah				
Postcode	2640			Required	
Town/city	ALBURY + 17 other localities			Town/city/suburb/region automated from postcode	
Distance to nearest major city/town		10 km		Enter for rural/regional locations only	
Project stage	Development Application			Required	
New build or major renovation?	New build			Required	
Brownfield or greenfield site?	Greenfield			Required	
			•		
Floor area by NCC building classification	Gross (GFA)	Net (NLA/NSA/UFA)	Unit	Note	
Please enter all floor areas relevant to your building. Leave a building classifications. Please also enter the corresponding where it is commonly used for that building classification.					
Class 1a: Detached residential buildings			m²	Required for Class 1a: Detached residential houses	
Class 1b: Boarding houses and hostels			m²	Required for Class 1b: Boarding house, guest hous	
Class 2: Multi-unit residential buildings			m²	Required for Class 2: Multi-unit residential, includ	

Class 2: Multi-unit residential buildings			m²	Required for Class 2: Multi-unit residential, includi
Class 3: Other residential buildings			m²	Required for Class 3: Other residential buildings
Class 4: Residential inside non-residential			m²	Required for Class 4: Residential building inside a
Class 5: Office buildings			m²	Required for Class 5: Office building
Class 6: Retail buildings			m²	Required for Class 6: Retail building, e.g., shop, re
Class 7a: Carparks			m²	Required for Class 7a: Carparks
Class 7b: Warehouse-type buildings			m²	Required for Class 7b: Warehouses, wholesalers
Class 8: Industrial buildings	8,169	6,984	m²	Required for Class 8: Industrial buildings, e.g., fac
Class 9a: Healthcare buildings			m²	Required for Class 9a: Healthcare, e.g., hospitals,
Class 9b: Civic buildings			m²	Required for Class 9b: Civic buildings, e.g., theatr
Class 9c: Aged care and personal care buildings			m²	Required for Class 9c: Aged care and personal ca
Class 10a: Non-habitable buildings			m²	Required for Class 10a: Non-habitable buildings ir
Class 10b: Miscellaneous structures			m²	Required for Class 10b: Miscellaneous structures,
Class 10c: Bushfire shelters			m²	Required for Class 10c: Bushfire shelters not attac
Total	8,169	6,984	m²	Required: Sum of m ² inputs must be more than 0.

Project information	Value	Unit	Note
Total cost of project	42,175,196	AUD excl. GST	Required
Building design life	50	years	Required
Estimated envelope life		years	Optional
Estimated replacement cycle for mechanical services		years	Optional
Estimated replacement cycle for vertical transportation		years	Optional

Dimensions of the building and the site	Value	Unit	Note
Site area	30,600	m²	Required
Shared services or infrastructure	No		Required
Building footprint area	8,169	m²	Required
Typical floor area (if different to building footprint area)		m²	Only needed if different to row above
Typical floor perimeter	385	m	Required
Area of external carpark (not included in GFA)	854	m ²	Required. Enter 0 if not applicable.
Area of external hardstand (not included in GFA)	803	m ²	Required. Enter 0 if not applicable.
Area of other hard landscaping (not included in GFA)	1,243	m ²	Required. Enter 0 if not applicable.
Number of floors/storeys above ground, including ground floor	1	no.	Required
Number of floors/storeys below ground	0	no.	Required. Enter 0 if not applicable.
Number of floors/storeys of car parking	0	no.	Required. Enter 0 if not applicable.
Total height above ground	13	m	Required

Structural material choices	Value	Unit	Note
Foundation type	Spot/pad footing		Required
Frame type (dominant)	Steel		Required
Suspended floor type (typical)	Please select		Only needed for multi-storey buildings
Describe low carbon materials specified in your building (e.g. green concrete, low carbon bricks)	None		Required
Describe recycled content specified in your building (e.g. recycled steel)	None		Required

	Comment
	Postcode of building
e (may not give exact town name)	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
	a semitrailer truck.
	Stage of development
es, townhouses	Gross Floor Area (GFA), as defined by the AIQS Australian Cost Management Manual
use, hostel	Net area (Net Lettable Area, Net Sellable Area, Usable Floor Area), as defined by the PCA's Method of Measurement
ng apartment buildings	
a non-residential building, e.g., caretaker resi	dence
estaurant, café	
and storage facilities	
tories and workshops	
, clinics, day surgeries	
es, civic centres, train stations	
are	
ncluding sheds, carports and private garages	
, including fences, masts, antennas, retaining	
ched to a Class 1a building	
5	
	Include labour, materials, transport, plant, equipment and professional fees. Exclude GST, land, finance, escalation and other costs.
	If uncertain, enter 50 years
	Total area of site to external boundary.
	Indicate if there are shared services that the building utilises, or shared foundations, basement or podium
	Total floor area of the ground floor measured to the outside edge of the floorplate.
	Include all other impervious areas. For example, patios, paths and driveways (not already included in carparks and hardstands above).
	Measured from the average finished grade to the highest point of the building, excluding protrusions (lighting rods, masts, chimneys, etc.)

Step 2: Quantity of materials

Complete all blue cells that are applicable to the building. Leave items that aren't applicable blank.

Fill out blue cells

Material category	Sub-category 1	Sub-category 2	Sub-category 3	Value	Unit of measu	re Comment	AIQS ACMM Code	ICMS3 (Level 3 C
Structure								
The structural parts of the building that a	re below ground (substructure)	and above ground (super	structure).					
This includes fill below the substructure,		suspended floors, wall str	ucture, roof structure, stair	s, lift shafts and ba	lconies.			
It excludes external areas such as hardst	ands, carparks, patios, etc.					Required. Coverage of <u>spend</u> for structural elements entered below.		
Coverage of structural material spend	-	-	-		%	Minimum requirement = 80%. Exclude head contractor preliminaries and margins.		
Concrete in-situ	≤10 MPa	-	-		m³	Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
Concrete in-situ	>10 MPa to ≤20 MPa	-	-		m³	Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
Concrete in-situ	>20 MPa to ≤32 MPa	-	-		m³	Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
Concrete in-situ	>32 MPa to ≤40 MPa	-	-		1,210.0 m³	Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
Concrete in-situ	>40 MPa to ≤50 MPa	-	-		1,151.0 m³	Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
Concrete in-situ	>50 MPa to ≤60 MPa	-	-		m³	Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
Concrete in-situ	>60 MPa to ≤80 MPa	-	-		m³	Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
Concrete in-situ	>80 MPa to ≤100 MPa	-	-		m³	Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
Concrete in-situ	>100 MPa	-	-		m ³	Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
Concrete pre-cast panel	-	-	-		63.1 m ³	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	-	-		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	-	-	-		kg		01_SB	02 or 03
Reinforcing steel	Bar & mesh	-	-		3,147 kg	Include all reinforcing steel bar/mesh in the building's structure in this row. Usually this is calculated as kg/m ³ per concrete element and then summed. Example: 10 m ³ of 40 MPa concrete @ 100 kg/m ³ + 5 m ³ of 50 MPa concrete @ 150 kg/m ³ = 1,750 kg reinforcing steel.	e 01_SB or 02-11	02 or 03
Reinforcing steel	Fibre & strand	-	-		34,538 kg	Include all steel fibre reinforcing and steel strand in the building's structure in this row.	01_SB or 02-11	02 or 03
Structural steel	Hot rolled structural	-	-		156 t	Examples include universal beams, universal columns and welded beams	01_SB	02 or 03
Structural steel	Cold formed structural	-	-	_	t	Examples include C purlins, Z purlins and all light gauge steel framing	01_SB	02 or 03
tructural steel	Other welded structural	-	-	_	t		01_SB	02 or 03
Structural steel	Plate	-	-		39 t	Include any allowance for connections here	01_SB	02 or 03
Structural steel	Sheet	-	-		t		01_SB	02 or 03
Stainless steel	-	-	-		t	Primarily for engineered timber structure connections	02_11	02 or 03
Reinforced 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
Reinforced 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
Steel piles	-	-	-		t	Where concrete and reinforcing steel are also used, enter these in the rows above.	01_SB	02 or 03
imber poles/piles	-	-	-		m³	Where concrete and reinforcing steel are also used, enter these in the rows above.	01_SB	02 or 03
Timber (solid)	Sawn softwood	-	-		m³		02_11	02 or 03
Timber (solid)	Sawn hardwood	-	-		m³		02_11	02 or 03
Timber (engineered)	CLT	-	-		m³		02_11	02 or 03
Fimber (engineered)	Glulam	-	-		m³		02_11	02 or 03
-imber (engineered)	LVL	-	-		m³		02_11	02 or 03
Fimber (engineered)	OSB	-	-		m³	Enter as <u>cubic metres</u> , calculated as (area of wall in m²) * (thickness in mm / 1000)	02_11	02 or 03
Brick	Heat cured	-	-		m³	Enter as <u>cubic metres</u> , calculated as (area of wall in m²) * (thickness in mm / 1000)	02_11	02 or 03
Structural Insulated Panel (SIP)	Steel outer	-	-		m²		01_SB	02 or 03
tructural Insulated Panel (SIP)	Aluminium outer	-	-		m²		01_SB	02 or 03
tructural Insulated Panel (SIP)	Engineered timber outer	-	-		m²		01_SB	02 or 03
ill	-	-	-		t	Include purchased material only. Exclude site-won material.	01_SB	01
and & gravel	-	-	-		t	Include purchased material only. Exclude site-won material and sand/gravel in concrete.	01_SB	01
Vaterproofing membrane	Bituminous	-	-		m²		01_SB	01 or 02 or 03
Vaterproofing membrane	Polyethylene	-	-		100 m²		01_SB	01 or 02 or 03
Other structural (Describe and add unit >>)		-	-			Please enter a description for any structural material that does not fit a predefined classification		
Other structural (Describe and add unit >>)		-	-			Please enter a description for any structural material that does not fit a predefined classification		
Other structural (Describe and add unit >>)		-	-			Please enter a description for any structural material that does not fit a predefined classification		

Envelope

The skin of the building that separates the internal building from the external environment.

This includes the roof claddir	ng, wall cladding, windows, doors and internal/ext	ernal shading. It also incl	udes insulation and the int	ernal wall lining of envelope wall	S		
Coverage of envelope material	spend -	-	-	%	Required. Coverage of <u>spend</u> for the envelope items you have entered below. Minimum requirement = 80%. Exclude head contractor preliminaries and margins.		
Roof cladding	Profiled steel	-	-	10,140 m²	Enter as m ² of roof area. Exclude allowances for overlap in the roofing sheets. This row includes all 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, whether painted or unpainted.	05 RE	03 or 04
Roof cladding	Profiled aluminium	-	-	m²	Enter as m ² of roof area. Exclude allowances for overlap in the roofing sheets. This row also includes pre-painted aluminium sheets.	05_RF	03 or 04
Roof cladding	Profiled zinc	-	-	m²	Enter as m ² of roof area. Exclude allowances for overlap in the roofing sheets. This row also includes pre-painted zinc sheets.	05_RF	03 or 04
Roof cladding	Membrane	-	-	m²	Enter as m ² of roof area. Exclude allowances for overlap in the membrane sheets.	05_RF	03 or 04
Roof cladding	Tiles (traditional clay)	-	-	m²	Enter as m ² of roof area. Exclude allowances for overlap between the tiles.	05_RF	03 or 04
Roof cladding	Tiles (concrete)	-	-	m²	Enter as m ² of roof area. Exclude allowances for overlap between the tiles.	05_RF	03 or 04
Roof cladding	Other (Please describe >>)		-	m²	Please enter a description for any roofing that does not fit a predefined classification	05_RF	03 or 04
Wall cladding	Bricks (heat cured)	-	-	m²	Enter as m ² 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
Wall cladding	Bricks (air dried)	-	-	m²	Enter as m ² of wall area. Air-dried bricks are cured using ambient temperature.	06_EW	03 or 04
Wall cladding	Bricks (under fired)	-	-	m²	Enter as m² of wall area.	06_EW	03 or 04
Wall cladding	Bricks (concrete)	-	-	m²	Enter as m² of wall area	06_EW	03 or 04
Wall cladding	Mortar and render	-	-	kg		06_EW	03 or 04
Wall cladding	Profiled steel	-	-	2,900 m²	Enter as m ² of wall area. Exclude allowances for overlap in the cladding sheets, offcuts, etc. This row includes all metal-coated and pre-painted steel sheets where steel is the base metal. Examples include: galvanised steel, zinc-aluminium (zincalume) coated steel and zinc-aluminiun magnesium (ZAM) coated steel, whether painted or unpainted.	06 EW	03 or 04
Wall cladding	Profiled aluminium	-	-	m²	Enter as m ² 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 m ² 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
Wall cladding	GRC cladding	-	-	m²	Enter as m ² of wall area. GRC = Glass Reinforced Concrete.	06_EW	03 or 04
Wall cladding	Timber weatherboards	-	- [m²	Enter as m ² of wall area. Exclude allowances for overlap between weatherboards, offcuts, etc.	06_EW	03 or 04
Wall cladding	Fibre cement board	-	-	m²	Enter as m ² of wall area. Exclude allowances for offcuts, etc.	06_EW	03 or 04

Wall cladding Terracotta --Enter as Wall cladding Brick tiles / veneers --Plasterboard Wall cladding --Plywood Wall cladding --Other (Please describe >>) Wall cladding -Windows & doors Aluminium frame Single glazed 80 m² Include -Windows & doors Aluminium frame Double glazed -Windows & doors Aluminium frame Triple glazed -Windows & doors Timber frame Single glazed -Timber frame Double glazed Windows & doors -Windows & doors Timber frame Triple glazed uPVC frame Windows & doors Single glazed uPVC frame Double glazed Windows & doors uPVC frame Triple glazed Windows & doors -Windows & doors Frameless Single glazed Windows & doors Frameless Double glazed Frameless Triple glazed Windows & doors Other (Please describe >>) Windows & doors Curtain wall Single skin façade Glazed panel Single glazed Single skin façade Double glazed Glazed panel Curtain wall Single skin façade Triple glazed Curtain wall Glazed panel Curtain wall Single skin façade Opaque panel Aluminium cladding Curtain wall Single skin façade Opaque panel GRC cladding Single skin façade Insulated shadow box Curtain wall Opaque panel Curtain wall Single skin façade Opaque panel Brick cladding Single skin façade Stone cladding Curtain wall Opaque panel Curtain wall Double skin façade Glazed panel Single glazed curtain Double skin façade Glazed panel Double glazed Curtain wall Glazed panel Curtain wall Double skin façade Triple glazed Curtain wall Double skin façade Opaque panel Aluminium cladding Double skin façade GRC = GRC cladding Curtain wall Opaque panel Curtain wall Double skin façade Opaque panel Insulated shadow box Double skin façade Brick cladding Curtain wall Opaque panel Curtain wall Double skin façade Opaque panel Stone cladding Other (Please describe >>) Curtain wall Please Stick-framed wall system Aluminium frame Glazed section Single glazed Double glazed Stick-framed wall system Aluminium frame Glazed section Triple glazed Stick-framed wall system Aluminium frame Glazed section Stick-framed wall system Aluminium frame Opaque section Aluminium cladding Stick-framed wall system Aluminium frame Opaque section GRC cladding Aluminium frame Insulated shadow box Stick-framed wall system Opaque section Brick cladding Stick-framed wall system Aluminium frame Opaque section Stick-framed wall system Aluminium frame Opaque section Stone cladding Stick-framed wall system Glazed section Steel frame Single glazed Glazed section Stick-framed wall system Steel frame Double glazed Stick-framed wall system Steel frame Glazed section Triple glazed Stick-framed wall system Steel frame Opaque section Aluminium cladding GRC = Stick-framed wall system Steel frame Opaque section GRC cladding Steel frame Insulated shadow box Stick-framed wall system Opaque section Stick-framed wall system Steel frame Opaque section Brick cladding Stick-framed wall system Steel frame Opaque section Stone cladding Stick-framed wall system Other (Please describe >>) 60 m² Wall louvre system Aluminium --10 m Aluminium cladding Aluminium frame External shading system -External shading system Aluminium frame GRC cladding -External shading system Aluminium frame Terracotta cladding -Aluminium frame Stone cladding External shading system -External shading system Aluminium frame Pre-cast concrete -External shading system Aluminium frame Timber -Glass (opague) External shading system Aluminium frame -Steel External shading system Aluminium frame Other (Please describe >>) External shading system -Roller doors Steel profile 121 --Roller doors Hardwood over steel --Roller doors Softwood over steel Revolving doors Glass/aluminium/steel Fire-rated doors Engineered timber -Steel Fire-rated doors -Fire-rated doors Aluminium/glass -613.0 m² Insulation Glass wool / fibreglass -Stone wool Insulation --Insulation Polyester -Expanded polystyrene Insulation Other (Please describe >>) Insulation Other (Please describe and add unit >>) -Other (Please describe and add unit >>) --Other (Please describe and add unit >>)

Permanent internal walls and doors

Walls and doors within the building that are either structural or designed to be permanent.

Coverage of material spend on permanent internal walls and doors

Interior wall (permanent) Interior wall (permanent) Interior wall (permanent) Steel (light framing) Timber framing AAC panel (reinforced)

-

-

-

-

-

-

Enter as m ² of wall area. Exclude allowances for offcuts, etc.	06_EW	03 or 04
Enter as m ² of wall area. Exclude allowances for offcuts, etc.	06_EW	03 or 04
	—	00 01 04
Enter as m ² of wall area. Exclude allowances for offcuts, etc. Include both external wall linings and internal wall linings for envelope walls.	12_WF or 06_EW	03 or 04
Enter as m ² of wall area. Exclude allowances for offcuts, etc. Include both external wall linings and internal wall linings for envelope walls.	12_WF or 06_EW	03 or 04
		00 04
Please enter a description for any wall cladding that does not fit a predefined classification	06_EW or 12_WF	03 or 04
Include all single glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04
Include all double glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04
Include all triple glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04
Include all single glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04
Include all double glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04
Include all triple glazing, including standard, toughened, laminated and low-E	07 WW or 08 ED	03 or 04
Include all single glazing, including standard, toughened, laminated and low-E	 07_WW or 08_ED	03 or 04
Include all double glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04
Include all triple glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04
Include all single glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04
		03 or 04
Include all double glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	
Include all triple glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04
Please enter a description for any windows or doors that do not fit a predefined classification	07_WW or 08_ED	03 or 04
Please declare all single-skin façade area in this section. All double-skin façade area should be		
entered in the next section. Include all single glazing, including standard, toughened, laminated	06_EW	03 or 04
and low-E	-	
Include all double glazing, including standard, toughened, laminated and low-E	06_EW	03 or 04
	-	
Include all triple glazing, including standard, toughened, laminated and low-E	06_EW	03 or 04
	06_EW	03 or 04
GRC = Glass-fibre Reinforced Concrete	06_EW	03 or 04
		03 or 04
	-	
	06_EW	03 or 04
	06_EW	03 or 04
Please declare all double-skin façade area in this section. Please declare as the area of the		
curtain wall and do not enter the inner and outer skins twice.	06_EW	03 or 04
Include all single glazing, including standard, toughened, laminated and low-E.	—	
The type of glazing refers to the building's envelope wall, not including the outer skin	06_EW	03 or 04
	—	
The type of glazing refers to the building's envelope wall, not including the outer skin	06_EW	03 or 04
	06_EW	03 or 04
GRC = Glass-fibre Reinforced Concrete	06_EW	03 or 04
	06_EW	03 or 04
	—	
	06_EW	03 or 04
	06_EW	03 or 04
Please enter a description for any curtain wall that does not fit a predefined classification	06 EW	03 or 04
	—	
Include all single glazing, including standard, toughened, laminated and low-E	—	03 or 04
Include all double glazing, including standard, toughened, laminated and low-E	06_EW	03 or 04
Include all triple glazing, including standard, toughened, laminated and low-E	06 EW	03 or 04
	06_EW	03 or 04
	—	
GRC = Glass-fibre Reinforced Concrete	06_EW	03 or 04
	06_EW	03 or 04
	06_EW	03 or 04
	—	
	06_EW	03 or 04
Include all single glazing, including standard, toughened, laminated and low-E	06_EW	03 or 04
Include all double glazing, including standard, toughened, laminated and low-E	06_EW	03 or 04
Include all triple glazing, including standard, toughened, laminated and low-E	06_EW	03 or 04
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Please enter a description for any wall system that does not fit a predefined classification Please enter as m ² of shaded area = linear metres * (width in mm / 1000). GRC = Glass-fibre Reinforced Concrete. Please enter as m ² of shaded area = linear metres * (width in mm / 1000) Please enter as m ² of shaded area = linear metres * (width in mm / 1000) Please enter as m ² of shaded area = linear metres * (width in mm / 1000) Please enter as m ² of shaded area = linear metres * (width in mm / 1000) Please enter as m ² of shaded area = linear metres * (width in mm / 1000) Please enter as m ² of shaded area = linear metres * (width in mm / 1000) Please enter as m ² of shaded area = linear metres * (width in mm / 1000) Please enter as m ² of shaded area = linear metres * (width in mm / 1000) Please enter as m ² of shaded area = linear metres * (width in mm / 1000) Please enter as m ² of shaded area = linear metres * (width in mm / 1000) Please enter as m ² of shaded area = linear metres * (width in mm / 1000) Please enter as m ² of shaded area = linear metres * (width in mm / 1000) Please enter as m ² of shaded area = linear metres * (width in mm / 1000) Please note unit is <u>square metres</u> , not quantity Please note unit is <u>square metres</u> , not quantity Please enter as single-leaf equivalent. For double-leaf doors, multiply the quantity by 2. Please enter as single-leaf equivalent. For double-leaf doors, multiply the quantity by 2. Please enter as single-leaf equivalent. For double-leaf doors, multiply the quantity by 2. Please include both wall and ceiling insulation Please include both wall and ceiling insulation Please include both wall and ceiling insulation	06_EW 06_EW 06_EW 06_EW 06_EW 06_EW 06_EW 06_EW 06_EW 06_EW 06_EW 06_EW 06_EW 06_EW 06_EW 06_EW 06_EW 08_ED	03 or 04 03 or 04

Please Please enter a description for any envelope material that does not fit a predefined classification Please enter a description for any envelope material that does not fit a predefined classification

Enter the % coverage of spend for the items you have entered below. There is no minimum requirement: enter what you know. This should include all structural walls. Exclude head contractor preliminaries and margins.

09_NW 09_NW 09_NW or 12_WF 03 or 04 03 or 04 03 or 04

Interior wall (permanent)	Concrete-filled steel panel	-	-	m²	Panels made from a steel sheet outer with an aerated concrete core. E.g., Speedpanel.	09_NW or 12_WF	03 or 04
Interior wall (permanent)	Plasterboard	-	-	555 m²	Enter as single-layer equivalent. If using 2 layers, multiply the area by 2.	09_NW or 12_WF	03 or 04
Interior wall (permanent)	Plywood	-	-	m²	Enter as single-layer equivalent. If using 2 layers, multiply the area by 2.	09_NW or 12_WF	03 or 04
Interior wall (permanent)	Fibre cement sheet	-	-	36.0 m²	Enter as single-layer equivalent. If using 2 layers, multiply the area by 2.	09_NW or 12_WF	03 or 04
Interior wall (permanent)	Insulation	-	-	555.0 m²		09_NW or 12_WF	03 or 04
Interior wall (permanent)	Glass	-	-	26.1 m²		09_NW or 12_WF	03 or 04
Interior wall (permanent)	Other (Please describe >>)		-	m²	Please enter a description for any internal wall that does not fit a predefined classification	09_NW or 12_WF	03 or 04
Internal door (permanent)	Aluminium/glass	-	-	no.	Please enter as single-leaf equivalent. For double-leaf doors, multiply the quantity by 2.	11_ND	03 or 04
Internal door (permanent)	Timber/glass	-	-	2 no.	Please enter as single-leaf equivalent. For double-leaf doors, multiply the quantity by 2.	11_ND	03 or 04
Internal door (permanent)	Timber solid lightweight	-	-	20 no.	Please enter as single-leaf equivalent. For double-leaf doors, multiply the quantity by 2.	11_ND	03 or 04
Internal door (permanent)	Fire resistant	-	-	2 no.	Please enter as single-leaf equivalent. For double-leaf doors, multiply the quantity by 2.	11_ND	03 or 04
Internal door (permanent)	Steel	-	-	no.	Please enter as single-leaf equivalent. For double-leaf doors, multiply the quantity by 2.	11_ND	03 or 04
Internal door (permanent)	Other (Please describe >>)		-	no.	Please enter a description for any internal door that does not fit a predefined classification	11_ND	03 or 04
Other (Please describe and add unit >>)	external timber doors (solid)	-	-	5.0 no.	Please enter a description for any material that does not fit a predefined classification		
Other (Please describe and add unit >>)		-	-		Please enter a description for any material that does not fit a predefined classification		
Other (Please describe and add unit >>)] -	-		Please enter a description for any material that does not fit a predefined classification		

Unit of measure

Services

Building services included within the main building contract. If the building components that are the subject of the development application or the construction certificate are base building only, then only enter these items. If you cannot split services by type, please enter them all in the "Other services" category at the bottom. Enter all values as material costs in dollars. 803,244 AUD excl. GST Where possible, enter material costs excluding labour, plant, equipment, margins and taxes Mechanical services ---0 AUD excl. GST Where possible, enter material costs excluding labour, plant, equipment, margins and taxes Vertical transportation --Electrical services including the main power supply, backup generators, security and 1,127,844 AUD excl. GST communications. Excluding solar installations. Electrical services -Where possible, enter material costs excluding labour, plant, equipment, margins and taxes. 0 AUD excl. GST Where possible, enter material costs excluding labour, plant, equipment, margins and taxes Solar photovoltaic installations --955,800 AUD excl. GST Where possible, enter material costs excluding labour, plant, equipment, margins and taxes Plumbing/hydraulic services --721,224 AUD excl. GST Where possible, enter material costs excluding labour, plant, equipment, margins and taxes Fire services Please group all other services here, meaning that coverage will always be 100% for services. Enter only the material costs (excluding labour, plant, equipment, margins and taxes). AUD excl. GST Other services (Please describe) -

External works

The materials associated with hard landscaping and outbuildings on the site but outside the building envelope.

This includes hardstands, carparks, driveways, covered walkways, decks, patios, awnings, fences, gates, etc. Soft landscaping should be excluded.

· · ·		• • • • •					
Coverage of spend on external works	-	-	-	%	Required. Coverage of <u>spend</u> for external works (excluding soft landscaping) entered below. Minimum requirement = 80%. Exclude head contractor preliminaries and margins.		
Asphalt	-	-	-	79 t			07
Concrete in-situ	≤10 MPa	-	-	m ³	Please enter reinforcing steel as part of "Reinforcing steel" below	33_XR or 34_XN or 35_XB or 36_XL	07
Concrete in-situ	>10 MPa to ≤20 MPa	-	-	72.0 m ³	Please enter reinforcing steel as part of "Reinforcing steel" below	33_XR or 34_XN or 35_XB or 36_XL	07
Concrete in-situ	>20 MPa to ≤32 MPa	-	-	m³	Please enter reinforcing steel as part of "Reinforcing steel" below	33_XR or 34_XN or 35_XB or 36_XL	07
Concrete in-situ	>32 MPa to ≤40 MPa	-	-	26.4 m ³	Please enter reinforcing steel as part of "Reinforcing steel" below	33_XR or 34_XN or 35_XB or 36_XL	07
Concrete in-situ	>40 MPa to ≤50 MPa	-	-	144.5 m³	Please enter reinforcing steel as part of "Reinforcing steel" below	33_XR or 34_XN or 35_XB or 36_XL	07
Concrete in-situ	>50 MPa	-	-	m ³	Please enter reinforcing steel as part of "Reinforcing steel" below	33_XR or 34_XN or 35_XB or 36_XL	07
Pavers, bricks and blocks	Concrete	-	-	m²		33_XR	07
Pavers, bricks and blocks	Clay	-	-	m²		33_XR	07
Reinforcing steel	Bar & mesh	-	-	kg	Include all reinforcing steel bar/mesh in the external works in this row. Usually this is calculated as kg/m ³ per concrete element and then summed. Example: 10 m ³ of 40 MPa concrete @ 150 kg/m ³ = 1,750 kg reinforcing steel.	te 33_XR or 34_XN or 35_XB or 36_XL	07
Reinforcing steel	Fibre & strand	-	-	4,336 kg	Include all steel fibre reinforcing and steel strand in the external works in this row.	33_XR or 34_XN or 35_XB or 36_XL	07
Structural steel	-	-	-	10 t		02_11	07
Structural aluminium	-	-	-	t	Includes structures, louvre systems, etc.	35_XB	07
External roof/wall cladding	Polycarbonate	-	-	m²	Enter as profiled polycarbonate sheet that would ordered, including allowance for overlap	35_XB	07
External roof/wall cladding	PVC	-	-	m²	Enter as profiled PVC sheet that would ordered, including allowance for overlap	35_XB	07
External roof/wall cladding	Bitumen sheet	-	-	m²	Enter as bituminous sheet that would ordered, including allowance for overlap	35_XB	07
External roof/wall cladding	Steel profile	-	-	110 m²	Enter as profiled steel sheet that would ordered, including allowance for overlap	35_XB	07
Fill	-	-	-	t	Include purchased material only. Exclude site-won material.	33_XR or 34_XN or 35_XB or 36_XL	07
Sand & gravel	-	-	-	t	Include purchased material only. Exclude site-won material and sand/gravel in concrete.	33_XR or 34_XN or 35_XB or 36_XL	07
Timber (solid)	Sawn softwood	-	-	m ³		33_XR or 34_XN or 35_XB or 36_XL	07
Timber (solid)	Sawn hardwood	-	-	m ³		33_XR or 34_XN or 35_XB or 36_XL	07
Timber (engineered)	CLT	-	-	m ³		33_XR or 34_XN or 35_XB or 36_XL	07
Timber (engineered)	Glulam	-	-	m ³		33_XR or 34_XN or 35_XB or 36_XL	07
Timber (engineered)	LVL	-	-	m ³		33_XR or 34_XN or 35_XB or 36_XL	07
Timber (engineered)	OSB	-	-	m ³		33_XR or 34_XN or 35_XB or 36_XL	07
Fabric (awning/sunshade)				m²		35_XB or 36_XL	07
Other (Please describe and add unit >>)		-	-		Please enter a description for any external works that does not fit a predefined classification		
Other (Please describe and add unit >>)		-	-		Please enter a description for any external works that does not fit a predefined classification		
Other (Please describe and add unit >>)		-	-		Please enter a description for any external works that does not fit a predefined classification		

28_SS	05
28_SS	05
26_LP	05
	05
26_LP_LPGP	05
18_PD and 19_WS	05 or 06
25_FPSS04 or 39 XWAW_03 or 41_XF	05

07

07 07

29_SS or multiple

Step 3: Certifier details

Fill out blue cells

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	Steve McKimmie	Required
Company	Joss Construction	Required
ABN		
Profession	Designer	Required
Qualification or registration	Bachelor of Engineering (Civil & Infrastructure)	Required

Person that certified the details in this form	Value	Note
Name	Steve McKimmie	Required
Company	Joss Construction	Required
ABN		
Profession	Designer	Required
Qualification or registration	Bachelor of Engineering (Civil & Infrastructure)	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

Services installation cost estimates represents the anticipated contract values for the installation, and is consistently represented this way as requrested. Material component is unable to be determined at this stage

Additional comments of certifier

Design is preliminary only with many relevant details subject to further design development. The data provided represents a best estimate of anticipated future details, where prompted within Step 2. Data is sourced from a Preliminary BOQ, Measured from drawings, and forecast outcomes from relevant experience on similar buildings from the data provider, and cannot be considered accountable for any final actual outcomes

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