

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: <u>nabers@environment.nsw.gov.au</u>

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

			-		
Building location and site data	Value		Unit	Note	Comment
Building address	171 John Oxley Drive Port Ma	acquarie NSW			
Postcode	2444			Required	Postcode of building
Town/city	BLACKMANS POINT + 12 of	ther localities		Town/city/suburb/region automated from postcode (may not give exact town name)	Town/city/suburb/region of the building site.
Distance to nearest major city/town		7	km	Enter for rural/regional locations only	Declare the shortest route by road to your site from the centre of your nearest major city (>100,000 people). The route must be traversab by a semitrailer truck.
Project stage	Development Application			Required	Stage of development
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				NOIC	
for all building classifications. Please also enter the corres					
Floor Area) where it is commonly used for that building cla	assification.				
Class 1a: Detached residential buildings			m²	Required for Class 1a: Detached residential houses, townhouses	Gross Floor Area (GFA), as defined by the AIQS Australian Cost Management Manual
Class 1b: Boarding houses and hostels			m²	Required for Class 1b: Boarding house, guest house, hostel	Net area (Net Lettable Area, Net Sellable Area, Usable Floor Area), as defined by the PCA's Method of Measurement
Class 2: Multi-unit residential buildings			m²	Required for Class 2: Multi-unit residential, including apartment buildings	
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 non-residential building, e.g., caretaker re	esidence
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, restaurant, café	
Class 7a: Carparks			m²	Required for Class 7a: Carparks	
Class 7b: Warehouse-type buildings			m²	Required for Class 7b: Warehouses, wholesalers and storage facilities	
Class 8: Industrial buildings			m²	Required for Class 8: Industrial buildings, e.g., factories and workshops	
Class 9a: Healthcare buildings			m ²	Required for Class 9a: Healthcare, e.g., hospitals, clinics, day surgeries	
Class 9b: Civic buildings	3,861	3,026	m²	Required for Class 9b: Civic buildings, e.g., theatres, civic centres, train stations	
	3,001	3,020		Required for Class 90: Crite buildings, e.g., theates, twic centres, train stations Required for Class 9c: Aged care and personal care	
Class 9c: Aged care and personal care buildings Class 10a: Non-habitable buildings			10* 2		
~			m²	Required for Class 10a: Non-habitable buildings including sheds, carports and private garage	
Class 10b: Miscellaneous structures			m²	Required for Class 10b: Miscellaneous structures, including fences, masts, antennas, retain	ing wails and swimming pools
Class 10c: Bushfire shelters			m²	Required for Class 10c: Bushfire shelters not attached to a Class 1a building	
Total	3,861	3,026	m²	Required: Sum of m ² inputs must be more than 0.	
Project information	Value		Unit	Note	
Total cost of project		20,639,192	AUD excl. GST	Required	Include labour, materials, transport, plant, equipment and professional fees. Exclude GST, land, finance, escalation and other costs.
Building design life		50	years	Required	If uncertain, enter 50 years
Estimated envelope life			years	Optional	
Estimated replacement cycle for mechanical services			years	Optional	
Estimated replacement cycle for vertical transportation			years	Optional	
			ŧ.	+ ·	+
Dimensions of the building and the site	Value		Unit	Note	
Site area		9,884		Required	Total area of site to external boundary.
Shared services or infrastructure	No			Required	Indicate if there are shared services that the building utilises, or shared foundations, basement or podium
Building footprint area		2,130	m²	Required	Total floor area of the ground floor measured to the outside edge of the floorplate.
Typical floor area (if different to building footprint area)		2,130	m ²	Only needed if different to row above	
Typical floor perimeter		347	m	Required	
		347			
Area of external carpark (not included in GFA)				Required. Enter 0 if not applicable.	
Area of external hardstand (not included in GFA)		725		Required. Enter 0 if not applicable.	
Area of other hard landscaping (not included in GFA)		0		Required. Enter 0 if not applicable.	Include all other impervious areas. For example, patios, paths and driveways (not already included in carparks and hardstands above).
Number of floors/storeys above ground, including ground floor			no.	Required	
Number of floors/storeys below ground			no.	Required. Enter 0 if not applicable.	
Number of floors/storeys of car parking			no.	Required. Enter 0 if not applicable.	
Total height above ground		12	m	Required	Measured from the average finished grade to the highest point of the building, excluding protrusions (lighting rods, masts, chimneys, etc
Structural material choices	Value		Unit	Note	
Foundation type	Slab-on-ground			Required	
Frame type (dominant)	Reinforced concrete			Required	
Suspended floor type (typical)	Reinforced concrete			Only needed for multi-storey buildings	
Describe low carbon materials specified in your building (e.g. green concrete, low carbon bricks)	твс			Required	
Describe recycled content specified in your building	твс			Required	

Material category	Sub-category 1	Sub-category 2	Sub-category 3	Value	Unit of measure Comment	AIQS ACMM Code	ICMS3 (Level 3 Codes Construction
Structure							
The structural parts of the building tha This includes fill below the substructure It excludes external areas such as hard	re, foundations, basement levels,			lift shafts and balconies.			
Coverage of structural material spend				88	% Required. Coverage of <u>spend</u> for structural elements entered below. Minimum requirement = 80%. Exclude head contractor preliminaries and margins.		
Concrete in-situ	≤10 MPa				m ³ 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				m ³ 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			1,063.0	m ³ 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				m ³ 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			52.0	m ³ 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				m ³ 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				m ³ 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				m ³ 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					m ³ Please enter reinforcing steel in relevant line items below. If not known at DA stage, please make you best estimate. If not known at CC stage, please ask your supplier.	r 01_SB or 02-11	02 or 03
Concrete block	Hollow core				m ³ Enter as <u>cubic metres</u> , calculated as (area in m ²) * (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			154.0	m ³ Enter as <u>cubic metres</u> , calculated as (area in m ²) * (thickness in mm / 1000)	01_SB	02 or 03
Concrete block/brick	Solid AAC				solid Aerated Autoclaved Concrete (AAC) block.	01_SB	02 or 03
	Solid AAC				Enter as <u>cubic metres</u> , calculated as (area in m ²) * (thickness in mm / 1000).	-	
Mortar	-			34,527	•	01_SB	02 or 03
Reinforcing steel	Bar & mesh			210,117	Include all reinforcing steel bar/mesh in the building's structure in this row. Usually this is 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/m² = 1,750 kg reinforcing steel.	01_SB or 02-11	02 or 03
Reinforcing steel	Fibre & strand				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			75,490	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
Structural steel	Other welded structural					01_SB	02 or 03
Structural steel	Plate				t Include any allowance for connections here	01_SB	02 or 03
Structural steel	Sheet					01_SB	02 or 03
Stainless steel	Gilber				t Primarily for engineered timber structure connections	02_11	02 or 03
Reinforced concrete piles	Concrete				m ³ 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				If not known at DA stage, please make your best estimate. If not known at CC stage, please ask your kg 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
Timber poles/piles					m ³ Where concrete and reinforcing steel are also used, enter these in the rows above.	01_SB	02 or 03
Timber (solid)	Sawn softwood				m ³	02_11	02 or 03
Timber (solid)	Sawn bardwood				 m ^a	02_11	02 or 03
Timber (engineered)	CLT					02 11	02 or 03
Timber (engineered)	Glulam				m ³	02_11	02 or 03
Timber (engineered)	LVL					02 11	02 or 03
Timber (engineered)	OSB				m ³ Enter as <u>cubic metres</u> , calculated as (area of wall in m ²) * (thickness in mm / 1000)	02_11	02 or 03
Brick	Heat cured	-	-		m ³ Enter as cubic metres, calculated as (area of wall in m ²) * (thickness in mm / 1000)	02_11	02 or 03
Structural Insulated Panel (SIP)	Steel outer	-	-		m ²	02_11 01_SB	02 or 03
Structural Insulated Panel (SIP)	Aluminium outer	-	-		m ²	01_SB	02 of 03
Structural Insulated Panel (SIP)	Engineered timber outer	-	-		m²	01_SB	02 or 03
Structural Insulated Panel (SIP) Fill	Engineered uniber outer				t Include purchased material only. Exclude site-won material.	01_SB	02 07 03
Sand & gravel	-	-	-		t Include purchased material only. Exclude site-won material.	01_SB	01
Waterproofing membrane	Bituminous			425		01_SB	01 or 02 or 03
Waterproofing membrane	Polvethvlene			420	m2	01_SB 01_SB	01 or 02 or 03
waterproofing memorane Other structural (Describe and add unit >>	.,,				Please enter a description for any structural material that does not fit a predefined classification	01_00	0101020103
Other structural (Describe and add unit >> Other structural (Describe and add unit >>	· · · · · · · · · · · · · · · · · · ·	-					
oner snuctural (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 cladding, wall cladding, windows, doors and internal/external shading. It also includes insulation and the internal wall lining of envelope walls.

Coverage of envelope material spend			-	84	%
Roof cladding	Profiled steel			2,686	m²
Roof cladding	Profiled aluminium				m²
Roof cladding	Profiled zinc	-	-		m²

Required. Coverage of <u>spend</u> for the envelope items you have entered below. 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 in metal-coated and pre-painted steel sheets where steel is the base metal. Examples includ galvanised steel, zinc-aluminum (zincalume) coated steel and zinc-aluminium-magnesiun coated steel, whether painted or unpainted.	e: 05 PE	03 or 04
Enter as m ² of roof area. Exclude allowances for overlap in the roofing sheets. This row al pre-painted aluminium sheets.	so includes 05_RF	03 or 04
Enter as m ² of roof area. Exclude allowances for overlap in the roofing sheets. This row al pre-painted zinc sheets.	so includes 05_RF	03 or 04

Roof clade Roof clade									
Deef ded		Membrane	-	-		m²	Enter as m ² of roof area. Exclude allowances for overlap in the membrane sheets.	05_RF	03 or 04
ROOI CIADO	ding	Tiles (traditional clay)	-	-		m²	Enter as m ² of roof area. Exclude allowances for overlap between the tiles.	05_RF	03 or 04
Roof clade	ding	Tiles (concrete)		-		m²	Enter as m ² of roof area. Exclude allowances for overlap between the tiles.	05_RF	03 or 04
Roof clade	ding	Other (Please describe >>)		Τ.		m²	Please enter a description for any roofing that does not fit a predefined classification	05 RF	03 or 04
TOOT CIBUC	ang	Other (Fieldale deachibe >>)		1 .					03 01 04
Wall cladd	dina	Bricks (heat cured)		-	1.433	m²	Enter as m ² of wall area. Heat-cured bricks use a kiln or furnace to raise the brick temperature above	06 FW	03 or 04
					.,		ambient temperature during curing process.		
Wall cladd	ding	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 cladd	ding	Bricks (under fired)					Enter as m ² of wall area.	06_EW	03 or 04
			-	-				-	
Wall cladd	ding	Bricks (concrete)	-	-		m²	Enter as m ² of wall area	06_EW	03 or 04
Wall cladd	ding	Mortar and render	-	-		kg		06_EW	03 or 04
							Enter as m ² of wall area. Exclude allowances for overlap in the cladding sheets, offcuts, etc. This row		
Wall cladd	ding	Profiled steel			845	m ²	includes all metal-coated and pre-painted steel sheets where steel is the base metal. Examples	06_EW	03 or 04
VV dii Giduu	ung	Fiblied Steel		-	645		include: galvanised steel, zinc-aluminium (zincalume) coated steel and zinc-aluminium-magnesium	00_EW	03 01 04
							(ZAM) coated steel, whether painted or unpainted.		
Wall cladd	dia a	Profiled aluminium				m ²	Enter as m ² of wall area. Exclude allowances for overlap in the cladding sheets, offcuts, etc. This row	06 EW	03 or 04
W dii Giduu	uling	Fromed authinium	-	-			also includes pre-painted aluminium sheets.	08_EW	03 01 04
Wall clade		Profiled zinc				2	Enter as m ² of wall area. Exclude allowances for overlap in the cladding sheets, offcuts, etc. This row	06_EW	03 or 04
vvali ciado	aing	Profiled zinc	-	-		me	also includes pre-painted zinc sheets.	06_EW	03 OF 04
Wall cladd		GRC cladding					Enter as m ² of wall area. GRC = Glass Reinforced Concrete.	06 EW	03 or 04
vvali ciado	aing	GRC cladding	-	-		m≁	Enter as m ² of wall area. GRC = Glass Reinforced Concrete.	06_EW	03 or 04
Wall cladd	dina	Timber weatherboards				m ²	Enter as m ² of wall area. Exclude allowances for overlap between weatherboards, offcuts, etc.	06_EW	03 or 04
Wall clade		Fibre cement board					Enter as m ² of wall area. Exclude allowances for offcuts, etc.	06_EW	03 or 04
			-	-					
Wall clade	ding	Terracotta	-	-		m²	Enter as m ² of wall area. Exclude allowances for offcuts, etc.	06_EW	03 or 04
Wall cladd	ding	Brick tiles / veneers	-	-		m²	Enter as m ² of wall area. Exclude allowances for offcuts, etc.	06_EW	03 or 04
		Directoria					Enter as m ² of wall area. Exclude allowances for offcuts, etc. Include both external wall linings and	40 WE 00 EW	00 0 -
Wall clade	aing	Plasterboard				m-	internal wall linings for envelope walls.	12_WF or 06_EW	03 or 04
	_					1.	Enter as m ² of wall area. Exclude allowances for offcuts, etc. Include both external wall linings and		
Wall cladd	ding	Plywood				m²	internal wall linings for envelope walls.	12_WF or 06_EW	03 or 04
Wall clade	dina	Other (Please describe >>)		T .		m²	Please enter a description for any wall cladding that does not fit a predefined classification	06_EW or 12_WF	03 or 04
			Circle alread	1					
Windows		Aluminium frame	Single glazed		448		Include all single glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04
Windows	& doors	Aluminium frame	Double glazed	-		m²	Include all double glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04
Windows	& doors	Aluminium frame	Triple glazed	-		m²	Include all triple glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04
Windows	8 doore	Timber frame	Single glazed				Include all single glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04
				-					
Windows		Timber frame	Double glazed	-		m²	Include all double glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04
Windows	& doors	Timber frame	Triple glazed	-		m²	Include all triple glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04
Windows	& doors	uPVC frame	Single glazed			m²	Include all single glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04
Windows		uPVC frame	Double glazed			m2	Include all double glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04
				-					
Windows		uPVC frame	Triple glazed	-			Include all triple glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04
Windows	& doors	Frameless	Single glazed			m²	Include all single glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04
Windows	& doors	Frameless	Double glazed			m²	Include all double glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04
Windows	8 doore	Frameless	Triple glazed				Include all triple glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04
			Thpie glazed					07_00000000	03 01 04
Windows				T					
	& doors	Other (Please describe >>)		I -		m²	Please enter a description for any windows or doors that do not fit a predefined classification	07_WW or 08_ED	03 or 04
				-		m²	Please declare all single-skin façade area in this section. All double-skin façade area should be		
Curtain wa		Other (Please describe >>) Single skin façade	Glazed panel	- Single glazed		m² m²	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 and	07_WW or 08_ED 06_EW	03 or 04 03 or 04
	all	Single skin façade				m²	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 and low-E	06_EW	03 or 04
Curtain wa Curtain wa	all		Glazed panel Glazed panel	- Single glazed Double glazed		m²	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 and		
	all	Single skin façade		Double glazed		m² m²	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 and low-E Include all double glazing, including standard, toughened, laminated and low-E	06_EW	03 or 04
Curtain wa	all all	Single skin façade Single skin façade Single skin façade	Glazed panel Glazed panel	Double glazed Triple glazed		m² m²	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 and low-E	06_EW 06_EW 06_EW	03 or 04 03 or 04 03 or 04
Curtain wa Curtain wa Curtain wa	all all all	Single skin façade Single skin façade Single skin façade Single skin façade	Glazed panel Glazed panel Opaque panel	Double glazed Triple glazed Aluminium cladding		m² m²	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 and low-E Include all double 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	03 or 04 03 or 04 03 or 04 03 or 04
Curtain wa Curtain wa Curtain wa Curtain wa	ali ali ali ali	Single skin façade Single skin façade Single skin façade Single skin façade Single skin façade	Glazed panel Glazed panel Opaque panel Opaque panel	Double glazed Triple glazed Aluminium cladding GRC cladding		m² m²	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 and low-E Include all double glazing, including standard, toughened, laminated and low-E	06_EW 06_EW 06_EW 06_EW 06_EW	03 or 04 03 or 04 03 or 04 03 or 04 03 or 04
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Curtain wa Curtain wa Stick-fram Stick-fram Stick-fram Stick-fram	all	Single skin façade Single skin façade Single skin façade Single skin façade Single skin façade Single skin façade Single skin façade Double skin f	Glazad panel Glazad panel Qpaque panel Qpaque panel Qpaque panel Qpaque panel Qpaque panel Glazad panel Glazad panel Glazad panel Qpaque panel Qpaque panel Qpaque panel Qpaque panel Glazad section Glazad section Qpaque section Qpaq	Double glazed Triple glazed Aluminium cladding GRC cladding Insulated shadow box Brick cladding Stone cladding Stone cladding GRC cladding Insulated shadow box Brick cladding GRC cladding Insulated shadow box Brick cladding Stone cladding GRC cladding Insulated shadow box Brick cladding GRC cladding GRC cladding GRC cladding GRC cladding GRC cladding Stone cladding GRC cladding Stone cladding		""" """ """ """ """ """ """ """ """ ""	Please declare all single skin façade area in this section. All double-skin façade area shoud be entered in the next section. Include all single glazing, including standard, toughened, laminated and low-E Include all triple glazing, including standard, toughened, laminated and low-E GRC = Glass-fibre Reinforced Concrete 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. 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 The type of glazing refers to the building's envelope wall, not including the outer skin GRC = Glass-fibre Reinforced Concrete Please enter a description for any curtain wall that does not fit a predefined classification Include all single glazing, including standard, toughened, laminated and low-E Include all single glazing, including standard, toughened, laminated and low-E GRC = Glass-fibre Reinforced Concrete Please enter a description for any curtain wall 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 GRC = Glass-fibre Reinforced Concrete	06_EW 06	03 or 04 03 or 04
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Curtain wa Curtain wa Stick-fram Stick-fram Stick-fram Stick-fram Stick-fram Stick-fram	all	Single skin façade Single skin façade Single skin façade Single skin façade Single skin façade Single skin façade Single skin façade Double skin f	Glazad panel Glazad panel Qpaque panel Qpaque panel Qpaque panel Qpaque panel Qpaque panel Glazad panel Glazad panel Glazad panel Qpaque panel Qpaque panel Qpaque panel Qpaque panel Glazad section Glazad section Qpaque section Qpaq	Double glazed Triple glazed Aluminium cladding GRC cladding Insulated shadow box Brick cladding Stone cladding Stone cladding GRC cladding Insulated shadow box Brick cladding GRC cladding Insulated shadow box Brick cladding Stone cladding GRC cladding Insulated shadow box Brick cladding GRC cladding GRC cladding GRC cladding GRC cladding GRC cladding Stone cladding GRC cladding Stone cladding		""" "" " " " " " " " " " " " " " " " "	Please declare all single skin façade area in this section. All double-skin façade area shoud be entered in the next section. Include all single glazing, including standard, toughened, laminated and low-E Include all triple glazing, including standard, toughened, laminated and low-E GRC = Glass-fibre Reinforced Concrete 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. 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 The type of glazing refers to the building's envelope wall, not including the outer skin GRC = Glass-fibre Reinforced Concrete Please enter a description for any curtain wall that does not fit a predefined classification Include all single glazing, including standard, toughened, laminated and low-E Include all single glazing, including standard, toughened, laminated and low-E GRC = Glass-fibre Reinforced Concrete Please enter a description for any curtain wall 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 GRC = Glass-fibre Reinforced Concrete	06_EW 06	03 or 04 03 or 04

Stick-framed wall system	Steel frame	Opaque section	GRC cladding		m²	GRC = Glass-fibre Reinforced Concrete	06_EW	03 or 04
Stick-framed wall system	Steel frame	Opaque section	Insulated shadow box			GRC = Glass-libre Reinforced Concrete	06_EW	03 or 04
•	Steel frame				m-		-	03 or 04
Stick-framed wall system		Opaque section	Brick cladding		m²		06_EW	
Stick-framed wall system	Steel frame	Opaque section	Stone cladding		m²		06_EW	03 or 04
Stick-framed wall system	Other (Please describe >>)		-		m²	Please enter a description for any wall system that does not fit a predefined classification	06_EW	03 or 04
Wall louvre system	Aluminium				m²		06_EW	03 or 04
External shading system	Aluminium frame	Aluminium cladding		418	m²	Please enter as m ² of shaded area = linear metres * (width in mm / 1000)	06_EW	03 or 04
External shading system	Aluminium frame	GRC cladding			m²	Please enter as m ² of shaded area = linear metres * (width in mm / 1000). GRC = Glass-fibre Reinforced Concrete.	06_EW	03 or 04
External shading system	Aluminium frame	Terracotta cladding			m²	Please enter as m ² of shaded area = linear metres * (width in mm / 1000)	06_EW	03 or 04
External shading system	Aluminium frame	Stone cladding			m²	Please enter as m ² of shaded area = linear metres * (width in mm / 1000)	06_EW	03 or 04
External shading system	Aluminium frame	Pre-cast concrete			m²	Please enter as m ² of shaded area = linear metres * (width in mm / 1000)	06_EW	03 or 04
External shading system	Aluminium frame	Timber			m²	Please enter as m ² of shaded area = linear metres * (width in mm / 1000)	06_EW	03 or 04
External shading system	Aluminium frame	Glass (opague)			m²	Please enter as m ² of shaded area = linear metres * (width in mm / 1000)	06_EW	03 or 04
External shading system	Aluminium frame	Steel			m²	Please enter as m ² of shaded area = linear metres * (width in mm / 1000)	06_EW	03 or 04
External shading system	Other (Please describe >>)		· ·		m²	Please enter as m ² of shaded area = linear metres * (width in mm / 1000)	06_EW	03 or 04
Roller doors	Steel profile		-		m²	Please note unit is square metres, not quantity	08_ED	03 or 04
Roller doors	Hardwood over steel				m²	Please note unit is square metres, not quantity	08_ED	03 or 04
Roller doors	Softwood over steel				m²	Please note unit is square metres, not quantity	08_ED	03 or 04
Revolving doors	Glass/aluminium/steel				no.		08_ED	03 or 04
Fire-rated doors	Engineered timber			2	no.	Please enter as single-leaf equivalent. For double-leaf doors, multiply the quantity by 2.	08_ED	03 or 04
Fire-rated doors	Steel				no.	Please enter as single-leaf equivalent. For double-leaf doors, multiply the quantity by 2.	08_ED	03 or 04
Fire-rated doors	Aluminium/glass				no.	Please enter as single-leaf equivalent. For double-leaf doors, multiply the quantity by 2.	08_ED	03 or 04
Insulation	Glass wool / fibreglass				m²	Please include both wall and ceiling insulation	05_RF or 06_EW	03 or 04
Insulation	Stone wool				m²	Please include both wall and ceiling insulation	05_RF or 06_EW	03 or 04
Insulation	Polyester				m²	Please include both wall and ceiling insulation	05_RF or 06_EW	03 or 04
Insulation	Expanded polystyrene				m²	Please include both wall and ceiling insulation	05_RF or 06_EW	03 or 04
Insulation	Other (Please describe >>)		I .		m²	Please include both wall and ceiling insulation	05_RF or 06_EW	03 or 04
Other (Please describe and add unit >>)			- -			Please enter a description for any envelope material that does not fit a predefined classification		
Other (Please describe and add unit >>)		· .				Please enter a description for any envelope material that does not fit a predefined classification		
Other (Please describe and add unit >>)		· .				Please enter a description for any envelope material that does not fit a predefined classification		
,				L				

Permanent internal walls and doors

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

wails and doors within the building that a							
Coverage of material spend on permanent inte	rnal walls and doors			92 %	Enter the % coverage of <u>spend</u> for the items you have entered below. There is no minimum requirement: enter what you know. This should include all structural walls. Exclude head contrat preliminaries and margins.	tor	
Interior wall (permanent)	Steel (light framing)			12 t		09_NW	03 or 04
Interior wall (permanent)	Timber framing		-	m ³		09_NW	03 or 04
Interior wall (permanent)	AAC panel (reinforced)			m ²	Panels of autoclaved aerated concrete (AAC) with reinforcing steel. E.g., Hebel.	09_NW or 12_WF	03 or 04
Interior wall (permanent)	Concrete-filled steel panel			m ²	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			3,434 m ²	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			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			m²		09_NW or 12_WF	03 or 04
Interior wall (permanent)	Glass			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			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			44 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			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 >>)		-			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		

Services Unit of measure
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.

Mechanical services	-		-	700,730 AUD exc	. GST Where possible, enter material costs excluding labour, plant, equipment, margins and taxes 28_SS 05	
Vertical transportation	-		-	140,000 AUD exc	. GST Where possible, enter material costs excluding labour, plant, equipment, margins and taxes 28_SS 05	
Electrical services	-	-	-	650,858 AUD exc	Electrical services including the main power supply, backup generators, security and I GST communications. Excluding solar installations. Where possible, enter material costs excluding labour, plant, equipment, margins and taxes.	
Solar photovoltaic installations	-		-	75,000 AUD exc	. GST Where possible, enter material costs excluding labour, plant, equipment, margins and taxes 26_LP_LPGP 05	
Plumbing/hydraulic services	-		-	783,695 AUD exc	. GST Where possible, enter material costs excluding labour, plant, equipment, margins and taxes 18_PD and 19_WS 05 or 06	
Fire services				439,959 AUD exc	. GST Where possible, enter material costs excluding labour, plant, equipment, margins and taxes 25_FPSS04 or 39 XWAW_03 or 41_XF 05	
Other services (Please describe)			-	AUD exc	. GST 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). 29_SS or multiple	

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.

This includes hardstands, carparks, drivewa	ys, covered waikways, decks, patios, aw	nings, rences, gates, etc. Sort i	andscaping sho	ula de excludea.				
Coverage of spend on external works			-	85		Required. Coverage of <u>spend</u> for external works (excluding soft landscaping) entered below. Minimum requirement = 80%. Exclude head contractor preliminaries and margins.		
Asphalt			-	95	t		33_XR	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		-	26.0	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		-		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	>32 MPa to ≤40 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	>40 MPa to ≤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
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			1,944		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 @ 100 kg/m ³ + 5 m ³ of 50 MPa concrete @ 150 kg/m ³ = 1,750 kg reinforcing steel.	33_XR or 34_XN or 35_XB or 36_XL	07
Reinforcing steel	Fibre & strand		-		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	-		-		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		-		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		

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	James Brandtman	Required
Company	Mitchell Brandtman	Required
ABN	38 372 658 067	
Profession	Quantity Surveyor	Required
Qualification or registration	MAIQS CQS #9246	Required

Person that certified the details in this form	Value	Note
Name	James Brandtman	Required
Company	Mitchell Brandtman	Required
ABN	38 372 658 067	
Profession	Quantity Surveyor	Required
Qualification or registration	MAIQS CQS #9246	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	
N/A	

Additional comments of certifier
N/A

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

This version:

1.20

1.10

Version history:

- 1.00 01-October-2023 Initial version.
 - 12-October-2023 Error on 'Instructions' tab changed 'cost of materials' for (1)-(4) to 'quantity of materials'.
- 1.20 24-October-2023
- Manual check for updates using button (instead of each time the sheet is opened).