



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
Building address	39 Hugh St , Belmore	
Postcode	2192	
Town/city	BELMORE	
Distance to nearest major city/town		km
Project stage	Development Application	
New build or major renovation?	New build	
Brownfield or greenfield site?	Brownfield	

Floor area by NCC building classification	Gross (GFA)	Net (NLA/NSA/UFA)	Unit
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.			
Class 1a: Detached residential buildings			m²
Class 1b: Boarding houses and hostels			m²
Class 2: Multi-unit residential buildings			m²
Class 3: Other residential buildings			m²
Class 4: Residential inside non-residential			m²
Class 5: Office buildings			m²
Class 6: Retail buildings			m²
Class 7a: Carparks			m²
Class 7b: Warehouse-type buildings			m²
Class 8: Industrial buildings	481	422	m²
Class 9a: Healthcare buildings			m²
Class 9b: Civic buildings			m²

Class 9c: Aged care and personal care buildings			m²
Class 10a: Non-habitable buildings			m²
Class 10b: Miscellaneous structures			m²
Class 10c: Bushfire shelters			m²
Total	481	422	m²

Project information	Value	Unit
Total cost of project	700,000	AUD excl. GST
Building design life	50	years
Estimated envelope life		years
Estimated replacement cycle for mechanical services		years
Estimated replacement cycle for vertical transportation		years

Dimensions of the building and the site	Value	Unit
Site area	650	m²
Shared services or infrastructure	No	
Building footprint area	426	m²
Typical floor area (if different to building footprint area)	403	m²
Typical floor perimeter	92	m
Area of external carpark (not included in GFA)	0	m ²
Area of external hardstand (not included in GFA)	190	m ²
Area of other hard landscaping (not included in GFA)	34	m ²
Number of floors/storeys above ground, including ground floor	2	no.
Number of floors/storeys below ground	1	no.
Number of floors/storeys of car parking	1	no.
Total height above ground	8	m

Structural material choices Value Unit
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Foundation type	Slab-on-ground	
Frame type (dominant)	Steel	
Suspended floor type (typical)	Composite metal deck	
Describe low carbon materials specified in your building (e.g. green concrete, low carbon bricks)	The project intend to use concrete with low portland cement content of 205 kg/m³ as against the conventional content of 440 kg/m³. The EPD of the product shall demonstrate compliance with EN5804 & ISO 14025	
, ,	Reinforcing Bar and Mesh products shall have a minimum of 90% recycled content.	

Required Town/city/suburb/region automated from postcode (may not give exact town name) Enter for rural/regional locations only Required Required

Required

Required for Class 1a: Detached residential houses, townhouses Required for Class 1b: Boarding house, guest house, hostel Required for Class 2: Multi-unit residential, including apartment buildings Required for Class 3: Other residential buildings Required for Class 4: Residential building inside a non-residential building, e.g., caretaker residence for Class 5: Office building Required for Class 6: Retail building, e.g., shop, restaurant, café Required for Class 7a: Carparks

Required for Class 7b: Warehouses, wholesalers and storage facilities

Required for Class 8: Industrial buildings, e.g., factories and workshops

Required for Class 9a: Healthcare, e.g., hospitals, clinics, day surgeries

Required for Class 9b: Civic buildings, e.g., theatres, civic centres, train stations

Required 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

Required for Class 10c: Bushfire shelters not attached to a Class 1a building

Required: Sum of m² inputs must be more than 0.

Note
Required
Required
Optional
Optional

Note

Required

Required

Required

Only needed if different to row above

Required

Optional

Required. Enter 0 if not applicable.

Required. Enter 0 if not applicable.

Required. Enter 0 if not applicable.

Required

Required. Enter 0 if not applicable.

Required. Enter 0 if not applicable.

Required

Note

Required
Required
Only needed for multi-storey buildings
Required
Required

Comment
Postcode of building
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
Gross Floor Area (GFA), as defined by the AIQS Australian Cost Management Manual
Net area (Net Lettable Area, Net Sellable Area, Usable Floor Area), as defined by the PCA's Method of Measurement
dence

walls and swimming pools
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.
Typical floors considered as level 5 to level 11
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. <u>Leave items that aren't applicable</u> blank.

Fill out blue cells

Material category	Sub-category 1	Sub-category 2	Sub-category 3	Value	Unit of measu
Structure					
The structural parts of the building that This includes fill below the substructure It excludes external areas such as hards	e, foundations, basement levels, sus		-	shafts and balconies.	
Coverage of structural material spend	-	-	-		80 %
Concrete in-situ	≤10 MPa	-	-		m³
Concrete in-situ	>10 MPa to ≤20 MPa	-	-	2	2.0 m³
Concrete in-situ	>20 MPa to ≤32 MPa	-	-	27	3.0 m³
Concrete in-situ	>32 MPa to ≤40 MPa	-	-		m³
Concrete in-situ	>40 MPa to ≤50 MPa	-	-		m³
Concrete in-situ	>50 MPa to ≤60 MPa	-	-		m³
Concrete in-situ	>60 MPa to ≤80 MPa	-	-		m³
Concrete in-situ	>80 MPa to ≤100 MPa	-	-		m³
Concrete in-situ	>100 MPa	-	-		m³
Concrete pre-cast panel	-	-	-		m³
Concrete block	Hollow core	-	-	6	3.0 m³
Concrete block/brick	Solid	-	-	14	6.0 m³
Concrete block/brick	Solid AAC	-	-		m³
Mortar	-	-	-	86,8	321 kg
Reinforcing steel	Bar & mesh	-	-	10,	325 kg
Reinforcing steel	Fibre & strand	-	-		kg
Structural steel	Hot rolled structural	-	-		t
Structural steel	Cold formed structural	-	-		t
Structural steel	Other welded structural	-	-		t
Structural steel	Plate	-	-		t
Structural steel	Sheet	-	-		t
Stainless steel	-	-	-		t
Reinforced concrete piles	Concrete	-	-		13 m³
Reinforced concrete piles	Steel reinforcing			1,0	625 kg
Steel piles	-	-	-		t
Timber poles/piles	-	-	-		m³
Timber (solid)	Sawn softwood	-	-		m³
Timber (solid)	Sawn hardwood	-	-		m³
Timber (engineered)	CLT	-	-		m³

Timber (engineered)	Glulam	-	-		m³
Timber (engineered)	LVL	-	-		m³
Timber (engineered)	OSB	-	-		m³
Brick	Heat cured	-	-		m³
Structural Insulated Panel (SIP)	Steel outer	-	-		m²
Structural Insulated Panel (SIP)	Aluminium outer	-	-		m²
Structural Insulated Panel (SIP)	Engineered timber outer	-	-		m²
Fill	-	-	-		t
Sand & gravel	-	-	-		t
Waterproofing membrane	Bituminous	-	-		m²
Waterproofing membrane	Polyethylene	-	-	410	m²
Other structural (Describe and add unit >>)		-	-		
Other structural (Describe and add unit >>)		-	-		
Other structural (Describe and add unit >>)		-	-		

Envelope

Coverage of envelope material spend

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.

To the second of					
Roof cladding	Profiled steel	-	-	427	m²
Roof cladding	Profiled aluminium	-	-		m²
Roof cladding	Profiled zinc	-	-		m²
Roof cladding	Membrane	-	-		m²
Roof cladding	Tiles (traditional clay)	-	-		m²
Roof cladding	Tiles (concrete)		- [m²
Roof cladding	Other (Please describe >>)		-		m²
Wall cladding	Bricks (heat cured)	-	-		m²
Wall cladding	Bricks (air dried)	-	-		m²
Wall cladding	Bricks (under fired)	-	-		m²
Wall cladding	Bricks (concrete)	-	-	53	m²
Wall cladding	Mortar and render	-	-	476	kg
Wall cladding	Profiled steel	-	-	32	m²
Wall cladding	Profiled aluminium	-	-		m²
Wall cladding	Profiled zinc	-	-		m²
Wall cladding	GRC cladding	-	-		m²

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Wall cladding	Timber weatherboards	-	-		lm²
Wall cladding	Fibre cement board	-	-		m²
Wall cladding	Terracotta	-	-		m²
Wall cladding	Brick tiles / veneers	-	-		m²
Wall cladding	Plasterboard	-	-		m²
Wall cladding	Plywood	-	-		m²
Wall cladding	Other (Please describe >>)		-		m²
Windows & doors	Aluminium frame	Single glazed	-		m²
Windows & doors	Aluminium frame	Double glazed	-	25	m²
Windows & doors	Aluminium frame	Triple glazed	-		m²
Windows & doors	Timber frame	Single glazed	-		m²
Windows & doors	Timber frame	Double glazed	-		m²
Windows & doors	Timber frame	Triple glazed	-		m²
Windows & doors	uPVC frame	Single glazed	-		m²
Windows & doors	uPVC frame	Double glazed	-		m²
Windows & doors	uPVC frame	Triple glazed	-		m²
Windows & doors	Frameless	Single glazed		3	m²
Windows & doors	Frameless	Double glazed			m²
Windows & doors	Frameless	Triple glazed			m²
Windows & doors	Other (Please describe >>)		-		m²
					Ī
Curtain wall	Single skin façade	Glazed panel	Single glazed		m²
Curtain wall	Single skin façade	Glazed panel	Double glazed		m²
Curtain wall	Single skin façade	Glazed panel	Triple glazed		m²
Curtain wall	Single skin façade	Opaque panel	Aluminium cladding		m²
Curtain wall	Single skin façade	Opaque panel	GRC cladding		m²
Curtain wall	Single skin façade	Opaque panel	Insulated shadow box		m²
Curtain wall	Single skin façade	Opaque panel	Brick cladding		m²
Curtain wall	Single skin façade	Opaque panel	Stone cladding		m²
					1
Curtain wall	Double skin façade	Glazed panel	Single glazed		m²
Curtain wall	Double skin façade	Clazad papal	Double glozed		m ²
	•	Glazed panel	Double glazed		m²
Curtain wall Curtain wall	Double skin façade	Glazed panel	Triple glazed		m²
Curtain wall	Double skin façade	Opaque panel	Aluminium cladding GRC cladding		m²
	Double skin façade	Opaque panel	-		m²
Curtain wall	Double skin façade	Opaque panel	Insulated shadow box		m²
Curtain wall	Double skin façade	Opaque panel	Brick cladding		m²
Curtain wall	Double skin façade	Opaque panel	Stone cladding		lm²
Curtain wall	Other (Please describe >>)				m²
Stick-framed wall system	Aluminium frame	Glazed section	Single glazed		m²
Stick-framed wall system	Aluminium frame	Glazed section	Double glazed		m²
Stick-framed wall system	Aluminium frame	Glazed section	Triple glazed		m²

Stick-framed wall system	Aluminium frame	Opaque section	Aluminium cladding		m²
Stick-framed wall system	Aluminium frame	Opaque section	GRC cladding		m²
Stick-framed wall system	Aluminium frame	Opaque section	Insulated shadow box		m²
Stick-framed wall system	Aluminium frame	Opaque section	Brick cladding		m²
Stick-framed wall system	Aluminium frame	Opaque section	Stone cladding		m²
	Steel frame	Glazed section	-		
Stick-framed wall system	Steel frame		Single glazed		m²
Stick-framed wall system		Glazed section	Double glazed		m²
Stick-framed wall system	Steel frame	Glazed section	Triple glazed		m²
Stick-framed wall system	Steel frame	Opaque section	Aluminium cladding		m²
Stick-framed wall system	Steel frame	Opaque section	GRC cladding		m²
Stick-framed wall system	Steel frame	Opaque section	Insulated shadow box		m²
Stick-framed wall system	Steel frame	Opaque section	Brick cladding		m²
Stick-framed wall system	Steel frame	Opaque section	Stone cladding		m²
Stick-framed wall system	Other (Please describe >>)		-		m²
Wall louvre system	Aluminium	-	-		m²
External shading system	Aluminium frame	Aluminium cladding	-		m²
External shading system	Aluminium frame	GRC cladding	-		m²
External shading system	Aluminium frame	Terracotta cladding	-		m²
External shading system	Aluminium frame	Stone cladding	-		m²
External shading system	Aluminium frame	Pre-cast concrete	-		m²
External shading system	Aluminium frame	Timber	-		m²
External shading system	Aluminium frame	Glass (opague)	-		m²
External shading system	Aluminium frame	Steel			m²
External shading system	Other (Please describe >>)	Permanent shading provide	ec -	7	m²
Roller doors	Steel profile	-	-	38	m²
Roller doors	Hardwood over steel	-	-		m²
Roller doors	Softwood over steel	-	-		m²
Revolving doors	Glass/aluminium/steel	-	-		no.
Fire-rated doors	Engineered timber	-	-	1	no.
Fire-rated doors	Steel	-	-		no.
Fire-rated doors	Aluminium/glass	-	-		no.
Insulation	Glass wool / fibreglass	-	-	90.0	m²
Insulation	Stone wool	-	-		m²
Insulation	Polyester	-	-		m²
Insulation	Expanded polystyrene	-	-		m²
Insulation	Other (Please describe >>)		-		m²
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)	Steel (light framing)	-	-		t
Interior wall (permanent)	Timber framing	-	-		m³
Interior wall (permanent)	AAC panel (reinforced)	-	-	325.0	m²
Interior wall (permanent)	Concrete-filled steel panel	-	-		m²
Interior wall (permanent)	Plasterboard	-	-	90	m²
Interior wall (permanent)	Plywood	-	-		m²
Interior wall (permanent)	Fibre cement sheet	-	-		m²
Interior wall (permanent)	Insulation	-	-		m²
Interior wall (permanent)	Glass		<u>-</u>		m²
Interior wall (permanent)	Other (Please describe >>)		-		m²
Internal door (permanent)	Aluminium/glass	-	- -	1	no.
Internal door (permanent)	Timber/glass	-	-		no.
Internal door (permanent)	Timber solid lightweight	-	-	12	no.
Internal door (permanent)	Fire resistant	-	-	3	no.
Internal door (permanent)	Steel		<u>-</u>		no.
Internal door (permanent)	Other (Please describe >>)		-		no.
Other (Please describe and add unit >>)		-	- -		
Other (Please describe and add unit >>)		-	-		
Other (Please describe and add unit >>)		-	-		
		_			

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	-	-	-	59,000 AUD excl. GST
Vertical transportation	-	-	-	40,000 AUD excl. GST
Electrical services	-	-	-	65,000 AUD excl. GST
Solar photovoltaic installations	-	-	-	AUD excl. GST
Plumbing/hydraulic services	-	-	-	35,000 AUD excl. GST
Fire services				20,000 AUD excl. GST
Other services (Please describe)		-	-	AUD excl. GST

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	-	-	-	80
Asphalt	-	-	-	1
Concrete in-situ	≤10 MPa	-	-	
Concrete in-situ	>10 MPa to ≤20 MPa	-	-	25.0

Concrete in-situ	>20 MPa to ≤32 MPa	-	-		m³
Concrete in-situ	>32 MPa to ≤40 MPa	-	-		m³
Concrete in-situ	>40 MPa to ≤50 MPa	-	-		m³
Concrete in-situ	>50 MPa	-	-		m³
Pavers, bricks and blocks	Concrete	-	-		m²
Pavers, bricks and blocks	Clay	-	-		m²
Reinforcing steel	Bar & mesh	-	-	470	kg
Reinforcing steel	Fibre & strand	-	-		kg
Structural steel	-	-	-		t
Structural aluminium	-	-	-		t
External roof/wall cladding	Polycarbonate	-	-		m²
External roof/wall cladding	PVC	-	-		m²
External roof/wall cladding	Bitumen sheet	-	-		m²
External roof/wall cladding	Steel profile	•	-		m²
Fill	-	-	-		t
Sand & gravel	-	-	-		t
Timber (solid)	Sawn softwood	-	-		m³
Timber (solid)	Sawn hardwood	-	-		m³
Timber (engineered)	CLT	-	-		m³
Timber (engineered)	Glulam	-	-		m³
Timber (engineered)	LVL	-	-		m³
Timber (engineered)	OSB	-	-		m³
Fabric (awning/sunshade)					m²
Other (Please describe and add unit >>)	Metal Fencing on External Adjacent sic	-	-	43.2	m²
Other (Please describe and add unit >>)		-	-		m²
Other (Please describe and add unit >>)		-	-		

Comment	AIQS ACMM Code	ICMS3 (Level 3 Codes Construction)
Required. Coverage of <u>spend</u> for structural elements entered below. Minimum requirement = 80%. Exclude head contractor preliminaries and margins.		
Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
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
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
Enter as cubic metres, calculated as (area in m²) * (thickness in mm / 1000)	01_SB	02 or 03
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
	01_SB	02 or 03
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 m³ of 40 MPa concrete @ 100 $kg/m^3 + 5$ m³ of 50 MPa concrete @ 150 $kg/m^3 = 1,750$ kg reinforcing steel.	01_SB or 02-11	02 or 03
Include all steel fibre reinforcing and steel strand in the building's structure in this row.	01_SB or 02-11	02 or 03
Examples include universal beams, universal columns and welded beams	01_SB	02 or 03
Examples include C purlins, Z purlins and all light gauge steel framing	01_SB	02 or 03
	01_SB	02 or 03
Include any allowance for connections here	01_SB	02 or 03
	01_SB	02 or 03
Primarily for engineered timber structure connections	02_11	02 or 03
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
If not known at DA stage, please make your best estimate. If not known at CC stage, please ask	01_SB	02 or 03

your supplier.

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_11

02_11

02_11

02 or 03 02 or 03

02 or 03

02 or 03

02 or 03

	02_11	02 or 03
	02_11	02 or 03
Enter as cubic metres, calculated as (area of wall in m²) * (thickness in mm / 1000)	02_11	02 or 03
Enter as cubic metres, calculated as (area of wall in m²) * (thickness in mm / 1000)	02_11	02 or 03
	01_SB	02 or 03
	01_SB	02 or 03
	01_SB	02 or 03
Include purchased material only. Exclude site-won material.	01_SB	01
Include purchased material only. Exclude site-won material and sand/gravel in concrete.	01_SB	01
	01_SB	01 or 02 or 03
	01_SB	01 or 02 or 03
	_	

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

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

Required. Coverage of <u>spend</u> for the envelope items you have entered below. Minimum requirement = 80%. Exclude head contractor preliminaries and margins.

ivilinimum requirement = 60%. Exclude nead contractor preliminaries and margins.		
Enter as m² 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_RF	03 or 04
Enter as m² of roof area. Exclude allowances for overlap in the roofing sheets. This row also includes pre-painted aluminium sheets.	05_RF	03 or 04
Enter as m² of roof area. Exclude allowances for overlap in the roofing sheets. This row also includes pre-painted zinc sheets.	05_RF	03 or 04
Enter as m² of roof area. Exclude allowances for overlap in the membrane sheets.	05_RF	03 or 04
Enter as m² of roof area. Exclude allowances for overlap between the tiles.	05_RF	03 or 04
Enter as m² of roof area. Exclude allowances for overlap between the tiles.	05_RF	03 or 04
Please enter a description for any roofing that does not fit a predefined classification	05_RF	03 or 04
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
Enter as m² of wall area. Air-dried bricks are cured using ambient temperature.	06_EW	03 or 04
Enter as m² of wall area.	06_EW	03 or 04
Enter as m² of wall area	06_EW	03 or 04
	06_EW	03 or 04
Enter as m² 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-aluminium-magnesium (ZAM) coated steel, whether painted or unpainted.	06_EW	03 or 04
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
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
Enter as m² of wall area. GRC = Glass Reinforced Concrete.	06_EW	03 or 04

Enter as m² of wall area. Exclude allowances for overlap between weatherboards, offcuts, etc.	06_EW	03 or 04
Enter as m² of wall area. Exclude allowances for offcuts, etc.	06_EW	03 or 04
Enter as m² of wall area. Exclude allowances for offcuts, etc.	06_EW	03 or 04
Enter as m² 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. Include both external wall linings and internal wall linings for envelope walls.	12_WF or 06_EW	03 or 04
Enter as m² 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
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
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
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 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
	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 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.	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
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	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

	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
	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 wall system that does not fit a predefined classification	06_EW	03 or 04
	06_EW	03 or 04
Please enter as m² of shaded area = linear metres * (width in mm / 1000)	06_EW	03 or 04
Please enter as m² of shaded area = linear metres * (width in mm / 1000). GRC = Glass-fibre Reinforced Concrete.	06_EW	03 or 04
Please enter as m² of shaded area = linear metres * (width in mm / 1000)	06_EW	03 or 04
Please enter as m² of shaded area = linear metres * (width in mm / 1000)	06_EW	03 or 04
Please enter as m² of shaded area = linear metres * (width in mm / 1000)	06_EW	03 or 04
Please enter as m² of shaded area = linear metres * (width in mm / 1000)	06_EW	03 or 04
Please enter as m² of shaded area = linear metres * (width in mm / 1000)	06_EW	03 or 04
Please enter as m² of shaded area = linear metres * (width in mm / 1000)	06_EW	03 or 04
Please enter as m² of shaded area = linear metres * (width in mm / 1000)	06_EW	03 or 04
Please note unit is square metres, not quantity	08_ED	03 or 04
Please note unit is square metres, not quantity	08_ED	03 or 04
Please note unit is square metres, not quantity	08_ED	03 or 04
	08_ED	03 or 04
Please enter as single-leaf equivalent. For double-leaf doors, multiply the quantity by 2.	08_ED	03 or 04
Please enter as single-leaf equivalent. For double-leaf doors, multiply the quantity by 2.	08_ED	03 or 04
Please enter as single-leaf equivalent. For double-leaf doors, multiply the quantity by 2.	08_ED	03 or 04
Please include both wall and ceiling insulation	05_RF or 06_EW	03 or 04
Please include both wall and ceiling insulation	05_RF or 06_EW	03 or 04
Please include both wall and ceiling insulation	05_RF or 06_EW	03 or 04
Please include both wall and ceiling insulation	05_RF or 06_EW	03 or 04
Please include both wall and ceiling insulation	05_RF or 06_EW	03 or 04
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		
Please enter a description for any envelope material that does not fit a predefined classification		

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 contractor preliminaries and margins.

Panels of autoclaved aerated concrete (AAC) with reinforcing steel. E.g., Hebel.
Panels made from a steel sheet outer with an aerated concrete core. E.g., Speedpanel.
Enter as single-layer equivalent. If using 2 layers, multiply the area by 2.
Enter as single-layer equivalent. If using 2 layers, multiply the area by 2.
Enter as single-layer equivalent. If using 2 layers, multiply the area by 2.

Please enter a description for any internal wall that does not fit a predefined classification
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 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 a description for any internal door that does not fit a predefined classification
Please enter a description for any material that does not fit a predefined classification
Please enter a description for any material that does not fit a predefined classification
Please enter a description for any material that does not fit a predefined classification

09_NW	03 or 04
09_NW	03 or 04
09_NW or 12_WF	03 or 04
09_NW or 12_WF	03 or 04
09_NW or 12_WF	03 or 04
09_NW or 12_WF	03 or 04
09_NW or 12_WF	03 or 04
09_NW or 12_WF	03 or 04
09_NW or 12_WF	03 or 04
09_NW or 12_WF	03 or 04
11_ND	03 or 04

Where possible, enter material costs excluding labour, plant, equipment, margins and taxes	28_SS	05
Where possible, enter material costs excluding labour, plant, equipment, margins and taxes	28_SS	05
Electrical services including the main power supply, backup generators, security and communications. Excluding solar installations. Where possible, enter material costs excluding labour, plant, equipment, margins and taxes.	26_LP	05
Where possible, enter material costs excluding labour, plant, equipment, margins and taxes	26_LP_LPGP	05
Where possible, enter material costs excluding labour, plant, equipment, margins and taxes	18_PD and 19_WS	05 or 06
Where possible, enter material costs excluding labour, plant, equipment, margins and taxes	25_FPSS04 or 39 XWAW_03 or 41_XF	05
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	

Required. Coverage of <u>spend</u> for external works (excluding soft landscaping) entered below. Minimum requirement = 80%. Exclude head contractor preliminaries and margins.

Please enter reinforcing steel as part of "Reinforcing steel" below Please enter reinforcing steel as part of "Reinforcing steel" below 33_XR 07 33_XR or 34_XN or 35_XB or 36_XL 07 33_XR or 34_XN or 35_XB or 36_XL 07

Please enter reinforcing steel as part of "Reinforcing steel" below	33_XR or 34_XN or 35_XB or 36_XL	07
Please enter reinforcing steel as part of "Reinforcing steel" below	33_XR or 34_XN or 35_XB or 36_XL	07
Please enter reinforcing steel as part of "Reinforcing steel" below	33_XR or 34_XN or 35_XB or 36_XL	07
Please enter reinforcing steel as part of "Reinforcing steel" below	33_XR or 34_XN or 35_XB or 36_XL	07
	33_XR	07
	33_XR	07
Include all reinforcing steel bar/mesh in the external works in this row. Usually this is 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.	33_XR or 34_XN or 35_XB or 36_XL	07
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
	02_11	07
Includes structures, louvre systems, etc.	35_XB	07
Enter as profiled polycarbonate sheet that would ordered, including allowance for overlap	35_XB	07
Enter as profiled PVC sheet that would ordered, including allowance for overlap	35_XB	07
Enter as bituminous sheet that would ordered, including allowance for overlap	35_XB	07
Enter as profiled steel sheet that would ordered, including allowance for overlap	35_XB	07
Include purchased material only. Exclude site-won material.	33_XR or 34_XN or 35_XB or 36_XL	07
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
	33_XR or 34_XN or 35_XB or 36_XL	07
	33_XR or 34_XN or 35_XB or 36_XL	07
	33_XR or 34_XN or 35_XB or 36_XL	07
	33_XR or 34_XN or 35_XB or 36_XL	07
	33_XR or 34_XN or 35_XB or 36_XL	07
	33_XR or 34_XN or 35_XB or 36_XL	07
	35_XB or 36_XL	07
Please enter a description for any external works that does not fit a predefined classification		

Please enter a description for any external works that does not fit a predefined classification

Please enter a description for any external works that does not fit a predefined classification

Please enter a description for any external works that does not fit a predefined classification

Step 3: Certifier details

The material quantities must be determined through an itemised if or NABERS Assessor.

Person that completed this form	
Name	
Company	
ABN	
Profession	

Qualification or registration

Person that certified the details in this form
Name
Company
ABN
Profession
Qualification or registration

Confirmation of certification

Are 80% of material costs captured for the building's structure, envelope and external works?

If no - why not?

Additional comments from data provider

GFA & UFA has been mentioned in architectural layout drawing n

Additional comments of certifier

Construction cost has been estimated as per the architectural laye

Attach this Excel spreadsheet to your development application or

Fill out blue cells

ist of building materials (such as a bill of quantities) and certified by a quantity surveyor, designer, engineer

Value
Upkar Agarwal
Dynamic Optimum
13525711386
Mechanical Engineer
NABERS Assessor (registration # 90370) , Chartered Professional Engineer (registration # 3324940)

Value

Upkar Agarwal

Dynamic Optimum

13525711386

Mechanical Engineer

NABERS Assessor (registration # 90370), Chartered Professional Engineer (registration # 3324940)

Yes

o. A3-14, A3-02 &A3-08 dated May 2024 prepared by CK Design (ABN no.60604801989) , L-2, 240 Church

outs, with drawing nos A3-01, to A3-14 and A3-16 all dated May 2024. The project no. mentioned in these

construction certificate application.

Access control, CCTV & Intercom

Note
Required
Required
Required
Required
Note
Required
Required
Required
Required
Note
Required
n St, Parramatta NSW 2150
darwings is 24018-01

This version:

1.20

Version history: 1.00 01-October-2023

12-October-2023 1.10

1.20 24-October-2023

Initial version.

Error on 'Instructions' tab - changed 'cost of materials' for (1)-(4) to 'quantity of materials'. Manual check for updates using button (instead of each time the sheet is opened).