



NABERS Embodied emissions material

New non-residential developments must complete this for

From 1 October 2023, all new non-residential developments must report on embodied emissions as part of the NSW government's State Environmental Planning Policy (Sustainable Buildings SEPP) for 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 gate" of the whole-of-life carbon footprint of Australia's buildings in 2019 [1]. The purpose of this form is to support project team discussions about potential reduction in emissions from key material embodied emissions factors. This reporting form will be updated to reflect the NABERS Embodied

Step 1: About the building

In the 'About the building' tab, you will add the location, function, and type of building you are reporting on. You will also add information that describes the building, including gross floor area, number of floors, and other details. 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 in your building. Complete those fields relevant to your building. Leave fields that aren't relevant to your building blank. Due to uncertainty, particularly at DA stage, so please use your best estimates where information is not available.

How much do I need to include?

You must include all parts of the building delivered by the main contractor, covering at least the building envelope. If you have spent \$100,000 on materials, you need to include the material amounts of at least \$100,000.

Wherever possible, consider materials costs only, not labour, plant or equipment. However, if you include labour or equipment 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 each material category:

- (1) Structure (substructure and superstructure) within the envelope of the building. Also include 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 and doors.
- (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 the building and the equipment required by a particular tenant.

You must enter the amounts of materials in SI units (commonly known as the metric system) for the various products on the market. However, you might need to convert the units of some materials.

Step 3: Certifier details

In the 'Certifier' tab you will add the details of the person who has entered data, and the certifier details. 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. The data collected in this form will be used by the NSW Government to inform future policy.

Help!

If you have general questions about reporting on the embodied emissions of your building, contact your local 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-nabers>

Materials form

Form

emissions using this form in NSW, where the 2022 applies. You must disclose the amounts of

cradle to grave". Embodied carbon made up 16% of the total carbon footprint. This form is to report on material quantities only, to help reduce embodied carbon. The form does not include embodied carbon tool when it's available in 2024.

you are planning to construct. You will also need to provide details of the area of carpark, and more. Collecting this

to construct your building. You only need to provide a building blank. We recognise that there will be some information that is unknown (e.g., based on past projects).

at least 80% of the total materials bill. For example, if you have 100,000 of those materials in this form.

However, where you cannot split out the materials from the total bill sheet.

For:

include any ancillary buildings that are necessary

alls.

:

to run the core of the building. Exclude special

stem). These are generally consistent across the materials (for example, convert volume to kg).

person who has certified the accuracy of the r.

e application.

olicy development.

ng, you should contact your local council or

elease-embodied-carbon-report/

Step 1: About the building

Fill out b

Building location and site data	Value
Building address	214 Hudson Parade Clareville
Postcode	2107
Town/city	AVALON + 10 other localities
Distance to nearest major city/town	
Project stage	Development Application
New build or major renovation?	Major renovation
Brownfield or greenfield site?	Brownfield

Floor area by NCC building classification	Gross (GFA)
Please enter all floor areas relevant to your building. Leave areas blank if not applicable. building classifications. Please also enter the corresponding net area (Net Lettable Area, where it is commonly used for that building classification.	
Class 1a: Detached residential buildings	
Class 1b: Boarding houses and hostels	
Class 2: Multi-unit residential buildings	
Class 3: Other residential buildings	
Class 4: Residential inside non-residential	
Class 5: Office buildings	
Class 6: Retail buildings	
Class 7a: Carparks	
Class 7b: Warehouse-type buildings	
Class 8: Industrial buildings	
Class 9a: Healthcare buildings	
Class 9b: Civic buildings	
Class 9c: Aged care and personal care buildings	
Class 10a: Non-habitable buildings	
Class 10b: Miscellaneous structures	
Class 10c: Bushfire shelters	
Total	0

Project information	Value
Total cost of project	
Building design life	
Estimated envelope life	
Estimated replacement cycle for mechanical services	

Estimated replacement cycle for vertical transportation	
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Dimensions of the building and the site	Value
Site area	
Shared services or infrastructure	Please select
Building footprint area	
Typical floor area (if different to building footprint area)	
Typical floor perimeter	
Area of external carpark (not included in GFA)	
Area of external hardstand (not included in GFA)	
Area of other hard landscaping (not included in GFA)	
Number of floors/storeys above ground, including ground floor	
Number of floors/storeys below ground	
Number of floors/storeys of car parking	
Total height above ground	

Structural material choices	Value
Foundation type	Spot/pad footing
Frame type (dominant)	Reinforced concrete
Suspended floor type (typical)	Lightweight timber
Describe low carbon materials specified in your building (e.g. green concrete, low carbon bricks)	Existing boatshed is to be reno
Describe recycled content specified in your building (e.g. recycled steel)	erecycled plastic for ramp. Re

blue cells

	Unit
1	km

Net (NLA/NSA/UFA)	Unit
Please enter Gross Floor Area (GFA) for all Net Sellable Area or Usable Floor Area)	
	m²
	m²
	m²
	m²
	m²
	m²
	m²
	m²
	m²
	m²
	m²
	m²
	m²
	m²
28	m²
	m²
	m²
28	m²

	Unit
176,818	AUD excl. GST
100	years
	years
	years

	years
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	Unit
740	m²
28	m²
	m²
26	m
0	m²
0	m²
50	m²
1	no.
0	no.
0	no.
5	m

	Unit
ovated	
cycled timber for decking	

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

Note
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
Required 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 walls
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

Optional

Note
Required
Required
Required
Only needed if different to row above
Required
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
ence

; walls and swimming pools

Include labour, materials, transport, plant, equipment and professional fees. Exclude GST, land, finance, escalation ;
If uncertain, enter 50 years

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Total area of site to external boundary.
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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.
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Include all other impervious areas. For example, patios, paths and driveways (not already included in car parks and h

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Measured from the average finished grade to the highest point of the building, excluding protrusions (lighting rods, r
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Step 2: Quantity of materials

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

Material category	Sub-category 1	Sub-category 2
Structure		
The structural parts of the building that are below ground (substructure) and above ground (superstructure). This includes fill below the substructure, foundations, basement levels, suspended floors, wall structure. It excludes external areas such as hardstands, carpark, patios, etc.		
Coverage of structural material spend	-	-
Concrete in-situ	≤10 MPa	-
Concrete in-situ	>10 MPa to ≤20 MPa	-
Concrete in-situ	>20 MPa to ≤32 MPa	-
Concrete in-situ	>32 MPa to ≤40 MPa	-
Concrete in-situ	>40 MPa to ≤50 MPa	-
Concrete in-situ	>50 MPa to ≤60 MPa	-
Concrete in-situ	>60 MPa to ≤80 MPa	-
Concrete in-situ	>80 MPa to ≤100 MPa	-
Concrete in-situ	>100 MPa	-
Concrete pre-cast panel	-	-
Concrete block	Hollow core	-
Concrete block/brick	Solid	-
Concrete block/brick	Solid AAC	-
Mortar	-	-
Reinforcing steel	Bar & mesh	-
Reinforcing steel	Fibre & strand	-
Structural steel	Hot rolled structural	-
Structural steel	Cold formed structural	-
Structural steel	Other welded structural	-
Structural steel	Plate	-
Structural steel	Sheet	-
Stainless steel	-	-
Reinforced concrete piles	Concrete	-
Reinforced concrete piles	Steel reinforcing	-
Steel piles	-	-
Timber poles/piles	-	-
Timber (solid)	Sawn softwood	-

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

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 incl

Coverage of envelope material spend	-	-
Roof cladding	Profiled steel	-
Roof cladding	Profiled aluminium	-
Roof cladding	Profiled zinc	-
Roof cladding	Membrane	-
Roof cladding	Tiles (traditional clay)	-
Roof cladding	Tiles (concrete)	-
Roof cladding	Other (Please describe >>)	
Wall cladding	Bricks (heat cured)	-
Wall cladding	Bricks (air dried)	-
Wall cladding	Bricks (under fired)	-
Wall cladding	Bricks (concrete)	-
Wall cladding	Mortar and render	-
Wall cladding	Profiled steel	-

Wall cladding	Profiled aluminium	-
Wall cladding	Profiled zinc	-
Wall cladding	GRC cladding	-
Wall cladding	Timber weatherboards	-
Wall cladding	Fibre cement board	-
Wall cladding	Terracotta	-
Wall cladding	Brick tiles / veneers	-
Wall cladding	Plasterboard	-
Wall cladding	Plywood	-
Wall cladding	Other (Please describe >>)	
Windows & doors	Aluminium frame	Single glazed
Windows & doors	Aluminium frame	Double glazed
Windows & doors	Aluminium frame	Triple glazed
Windows & doors	Timber frame	Single glazed
Windows & doors	Timber frame	Double glazed
Windows & doors	Timber frame	Triple glazed
Windows & doors	uPVC frame	Single glazed
Windows & doors	uPVC frame	Double glazed
Windows & doors	uPVC frame	Triple glazed
Windows & doors	Frameless	Single glazed
Windows & doors	Frameless	Double glazed
Windows & doors	Frameless	Triple glazed
Windows & doors	Other (Please describe >>)	
Curtain wall	Single skin façade	Glazed panel
Curtain wall	Single skin façade	Glazed panel
Curtain wall	Single skin façade	Glazed panel
Curtain wall	Single skin façade	Opaque panel
Curtain wall	Single skin façade	Opaque panel
Curtain wall	Single skin façade	Opaque panel
Curtain wall	Single skin façade	Opaque panel
Curtain wall	Single skin façade	Opaque panel
Curtain wall	Double skin façade	Glazed panel
Curtain wall	Double skin façade	Glazed panel
Curtain wall	Double skin façade	Glazed panel
Curtain wall	Double skin façade	Opaque panel
Curtain wall	Double skin façade	Opaque panel

Curtain wall	Double skin façade	Opaque panel
Curtain wall	Double skin façade	Opaque panel
Curtain wall	Double skin façade	Opaque panel
Curtain wall	Other (Please describe >>)	
Stick-framed wall system	Aluminium frame	Glazed section
Stick-framed wall system	Aluminium frame	Glazed section
Stick-framed wall system	Aluminium frame	Glazed section
Stick-framed wall system	Aluminium frame	Opaque section
Stick-framed wall system	Aluminium frame	Opaque section
Stick-framed wall system	Aluminium frame	Opaque section
Stick-framed wall system	Aluminium frame	Opaque section
Stick-framed wall system	Aluminium frame	Opaque section
Stick-framed wall system	Steel frame	Glazed section
Stick-framed wall system	Steel frame	Glazed section
Stick-framed wall system	Steel frame	Glazed section
Stick-framed wall system	Steel frame	Opaque section
Stick-framed wall system	Steel frame	Opaque section
Stick-framed wall system	Steel frame	Opaque section
Stick-framed wall system	Steel frame	Opaque section
Stick-framed wall system	Steel frame	Opaque section
Stick-framed wall system	Other (Please describe >>)	
Wall louvre system	Aluminium	-
External shading system	Aluminium frame	Aluminium cladding
External shading system	Aluminium frame	GRC cladding
External shading system	Aluminium frame	Terracotta cladding
External shading system	Aluminium frame	Stone cladding
External shading system	Aluminium frame	Pre-cast concrete
External shading system	Aluminium frame	Timber
External shading system	Aluminium frame	Glass (opaque)
External shading system	Other (Please describe >>)	
Roller doors	Steel profile	-
Roller doors	Hardwood over steel	-
Roller doors	Softwood over steel	-
Revolving doors	Glass/aluminium/steel	-
Fire-rated doors	Engineered timber	-
Fire-rated doors	Steel	-
Fire-rated doors	Aluminium/glass	-
Insulation	Glass wool / fibreglass	-
Insulation	Stone wool	-
Insulation	Polyester	-

Insulation	Expanded polystyrene	-
Insulation	Other (Please describe >>)	
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)	-
Interior wall (permanent)	Timber framing	-
Interior wall (permanent)	AAC panel (reinforced)	-
Interior wall (permanent)	Concrete-filled steel panel	-
Interior wall (permanent)	Plasterboard	-
Interior wall (permanent)	Plywood	-
Interior wall (permanent)	Fibre cement sheet	-
Interior wall (permanent)	Insulation	-
Interior wall (permanent)	Glass	-
Interior wall (permanent)	Other (Please describe >>)	
Internal door (permanent)	Aluminium/glass	-
Internal door (permanent)	Timber/glass	-
Internal door (permanent)	Timber solid lightweight	-
Internal door (permanent)	Fire resistant	-
Internal door (permanent)	Steel	-
Internal door (permanent)	Other (Please describe >>)	
Other (Please describe and add unit >>)		-
Other (Please describe and add unit >>)		-
Other (Please describe and add unit >>)		-

Services

Building services included within the main building contract. If the building components that are the subject are base building only, then only enter these items. If you cannot split services by type, please enter the values as material costs in dollars.

Mechanical services	-	-
Vertical transportation	-	-
Electrical services	-	-
Solar photovoltaic installations	-	-
Plumbing/hydraulic services	-	-
Fire services		

Other services (Please describe)

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-

External works

The materials associated with hard landscaping and outbuildings on the site but outside the building envelope. This includes hardstands, carpark, driveways, covered walkways, decks, patios, awnings, fences, gates.

Coverage of spend on external works	-	-
Asphalt	-	-
Concrete in-situ	≤10 MPa	-
Concrete in-situ	>10 MPa to ≤20 MPa	-
Concrete in-situ	>20 MPa to ≤32 MPa	-
Concrete in-situ	>32 MPa to ≤40 MPa	-
Concrete in-situ	>40 MPa to ≤50 MPa	-
Concrete in-situ	>50 MPa	-
Pavers, bricks and blocks	Concrete	-
Pavers, bricks and blocks	Clay	-
Reinforcing steel	Bar & mesh	-
Reinforcing steel	Fibre & strand	-
Structural steel	-	-
Structural aluminium	-	-
External roof/wall cladding	Polycarbonate	-
External roof/wall cladding	PVC	-
External roof/wall cladding	Bitumen sheet	-
External roof/wall cladding	Steel profile	-
Fill	-	-
Sand & gravel	-	-
Timber (solid)	Sawn softwood	-
Timber (solid)	Sawn hardwood	-
Timber (engineered)	CLT	-
Timber (engineered)	Glulam	-
Timber (engineered)	LVL	-
Timber (engineered)	OSB	-
Fabric (awning/sunshade)		
Other (Please describe and add unit >>)		-
Other (Please describe and add unit >>)		-
Other (Please describe and add unit >>)		-

Fill out blue cells

Sub-category 3	Value	Unit of measure
ture).		
e, roof structure, stairs, lift shafts and balconies.		
-		%
-		m ³
-		m ³
-		m ³
-		m ³
-		m ³
-		m ³
-		m ³
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-		t
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-		
-		
-		



udes insulation and the internal wall lining of envelope walls.

-		%
-		m ²
-		m ²
-		m ²
-		m ²
-		m ²
-		m ²
-		m ²
-		
-		m ²
-		m ²
-		m ²
-		m ²
-		kg
-		m ²

[illegible]

[illegible]

-		m ²
-		m ²
-		
-		
-		

		%
-		t
-		m ³
-		m ²
-		m ²
-		m ²
-		m ²
-		m ²
-		m ²
-		m ²
-		m ²
-		no.
-		no.
-		no.
-		no.
-		no.
-		no.
-		
-		
-		

[illegible]

-		AUD excl. GST
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velope.

s, etc. Soft landscaping should be excluded.

-		%
-		t
-		m ³
-		m ³
-		m ³
-		m ³
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-		m ²
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-		m ³
-		m ³
-		m ²
-		
-		
-		

Comment
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

Please enter reinforcing steel as part of "Reinforcing steel" below

Please enter reinforcing steel as part of "Reinforcing steel" below

Please enter reinforcing steel as part of "Reinforcing steel" below

Please enter reinforcing steel as part of "Reinforcing steel" below

Please enter reinforcing steel as part of "Reinforcing steel" below

Please enter reinforcing steel as part of "Reinforcing steel" below

Please enter reinforcing steel as part of "Reinforcing steel" below

Please enter reinforcing steel as part of "Reinforcing steel" below

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.

Enter as cubic metres, 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.

Enter as cubic metres, calculated as (area in m²) * (thickness in mm / 1000)

Solid Aerated Autoclaved Concrete (AAC) block.

Enter as cubic metres, calculated as (area in m²) * (thickness in mm / 1000).

Include all reinforcing steel bar/mesh in the building's structure 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.

Include all steel fibre reinforcing and steel strand in the building's structure in this row.

Examples include universal beams, universal columns and welded beams

Examples include C purlins, Z purlins and all light gauge steel framing

Include any allowance for connections here

Primarily for engineered timber structure connections

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.

If not known at DA stage, please make your best estimate. If not known at CC stage, please ask 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.

Enter as cubic metres, calculated as (area of wall in m²) * (thickness in mm / 1000)

Enter as cubic metres, calculated as (area of wall in m²) * (thickness in mm / 1000)

Include purchased material only. Exclude site-won material.

Include purchased material only. Exclude site-won material and sand/gravel in concrete.

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 spend for the envelope items you have entered below.

Minimum requirement = 80%. Exclude head 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.

Enter as m² of roof area. Exclude allowances for overlap in the roofing sheets. This row also includes pre-painted aluminium sheets.

Enter as m² of roof area. Exclude allowances for overlap in the roofing sheets. This row also includes pre-painted zinc sheets.

Enter as m² of roof area. Exclude allowances for overlap in the membrane sheets.

Enter as m² of roof area. Exclude allowances for overlap between the tiles.

Enter as m² of roof area. Exclude allowances for overlap between the tiles.

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

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.

Enter as m² of wall area. Air-dried bricks are cured using ambient temperature.

Enter as m² of wall area.

Enter as m² of wall area

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.

Enter as m² of wall area. Exclude allowances for overlap in the cladding sheets, offcuts, etc. This row also includes pre-painted aluminium sheets.

Enter as m² of wall area. Exclude allowances for overlap in the cladding sheets, offcuts, etc. This row also includes pre-painted zinc sheets.

Enter as m² of wall area. GRC = Glass Reinforced Concrete.

Enter as m² of wall area. Exclude allowances for overlap between weatherboards, offcuts, etc.

Enter as m² of wall area. Exclude allowances for offcuts, etc.

Enter as m² of wall area. Exclude allowances for offcuts, etc.

Enter as m² of wall area. Exclude allowances for offcuts, etc.

Enter as m² of wall area. Exclude allowances for offcuts, etc. Include both external wall linings and internal wall linings for envelope walls.

Enter as m² of wall area. Exclude allowances for offcuts, etc. Include both external wall linings and internal wall linings for envelope walls.

Please enter a description for any wall cladding that does not fit a predefined classification

Include all single glazing, including standard, toughened, laminated and low-E

Include all double glazing, including standard, toughened, laminated and low-E

Include all triple glazing, including standard, toughened, laminated and low-E

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

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

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

Please enter a description for any windows or doors that do not fit a predefined classification

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

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 double glazing, including standard, toughened, laminated and low-E

Include all triple glazing, including standard, toughened, laminated and low-E

GRC = Glass-fibre Reinforced Concrete

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

GRC = Glass-fibre Reinforced Concrete

Please enter a description for any wall system that does not fit a predefined classification

Please enter as m² of shaded area = linear metres * (width in mm / 1000)

Please enter as m² of shaded area = linear metres * (width in mm / 1000).

GRC = Glass-fibre Reinforced Concrete.

Please enter as m² of shaded area = linear metres * (width in mm / 1000)

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Please enter as m² of shaded area = linear metres * (width in mm / 1000)

Please note unit is square metres, not quantity

Please note unit is square metres, not quantity

Please note unit is square metres, 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

Please include both wall and ceiling insulation

Please include both wall and ceiling insulation

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 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.

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

Where possible, enter material costs excluding labour, plant, equipment, margins and taxes

Where possible, enter material costs excluding labour, plant, equipment, margins and taxes

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.

Where possible, enter material costs excluding labour, plant, equipment, margins and taxes

Where possible, enter material costs excluding labour, plant, equipment, margins and taxes

Where possible, enter material costs excluding labour, plant, equipment, margins and taxes

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).

Required. Coverage of spend 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
Please enter reinforcing steel as part of "Reinforcing steel" below
Please enter reinforcing steel as part of "Reinforcing steel" below
Please enter reinforcing steel as part of "Reinforcing steel" below
Please enter reinforcing steel as part of "Reinforcing steel" below

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.
Include all steel fibre reinforcing and steel strand in the external works in this row.

Includes structures, louvre systems, etc.
Enter as profiled polycarbonate sheet that would ordered, including allowance for overlap
Enter as profiled PVC sheet that would ordered, including allowance for overlap
Enter as bituminous sheet that would ordered, including allowance for overlap
Enter as profiled steel sheet that would ordered, including allowance for overlap
Include purchased material only. Exclude site-won material.
Include purchased material only. Exclude site-won material and sand/gravel in concrete.

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

AIQS ACMM Code	ICMS3 (Level 3 Codes Construction)

01_SB or 02-11	02 or 03
01_SB or 02-11	02 or 03
01_SB or 02-11	02 or 03
01_SB or 02-11	02 or 03
01_SB or 02-11	02 or 03
01_SB or 02-11	02 or 03
01_SB or 02-11	02 or 03
01_SB or 02-11	02 or 03
01_SB or 02-11	02 or 03
01_SB or 02-11	02 or 03
01_SB	02 or 03
01_SB	02 or 03
01_SB	02 or 03
01_SB	02 or 03
01_SB or 02-11	02 or 03
01_SB or 02-11	02 or 03
01_SB	02 or 03
01_SB	02 or 03
01_SB	02 or 03
01_SB	02 or 03
01_SB	02 or 03
01_SB	02 or 03
02_11	02 or 03
01_SB	02 or 03
01_SB	02 or 03
01_SB	02 or 03
01_SB	02 or 03
02_11	02 or 03

[illegible]

06_EW	03 or 04
06_EW	03 or 04
06_EW	03 or 04
06_EW	03 or 04
06_EW	03 or 04
06_EW	03 or 04
06_EW	03 or 04
06_EW	03 or 04
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08_ED	03 or 04
08_ED	03 or 04
08_ED	03 or 04
08_ED	03 or 04
08_ED	03 or 04
08_ED	03 or 04
08_ED	03 or 04
05_RF or 06_EW	03 or 04
05_RF or 06_EW	03 or 04
05_RF or 06_EW	03 or 04

05_RF or 06_EW	03 or 04
05_RF or 06_EW	03 or 04



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
11_ND	03 or 04
11_ND	03 or 04
11_ND	03 or 04
11_ND	03 or 04
11_ND	03 or 04



28_SS	05
28_SS	05
26_LP	05
26_LP_LP GP	05
18_PD and 19_WS	05 or 06
25_FPSS04 or 39_XWAW_03 or 41_XF	05

THE UNIVERSITY OF CHICAGO

[illegible]

Step 3: Certifier details

The material quantities must be determined through an itemised I and certified by a quantity surveyor, designer, engineer or NABER

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

Additional comments of certifier

Attach this Excel spreadsheet to your development application or

Fill out blue cells

ist of building materials (such as a bill of quantities)
RS Assessor.

Value	Note
	Required
	Required
	Required
	Required

Value	Note
	Required
	Required
	Required
	Required

Value	Note
Please select	Required

construction certificate application.

This version:

1.20

Version history:

1.00 01-October-2023

1.10 12-October-2023

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).