

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

Step 1: About the building

Building location and site data

Fill out blue cells

Unit

Note

Value

Building location and site data			Offic		Comment
Building address	20 Avon Rd, Pymble NSW				
Postcode	2073			Required	Postcode of building
Town/city	PYMBLE + 2 other 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		15	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 traversable by a semitrailer truck.
Project stage	Development Application			Required	Stage of development
New build or major renovation?	New build			Required	
Brownfield or greenfield site?	Brownfield			Required	
3			l	The second secon	
Floor area by NCC building classification	Gross (GFA)	Net (NLA/NSA/UFA)	Unit	Note	
Please enter all floor areas relevant to your building. Leave		,			
building classifications. Please also enter the correspondin	g 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	0	0	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	0	0	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	0	0	m²	Required for Class 2: Multi-unit residential, including apartment buildings	
Class 3: Other residential buildings	0	0	m²	Required for Class 3: Other residential buildings	
Class 4: Residential inside non-residential	0	0	m²	Required for Class 4: Residential building inside a non-residential building, e.g., caretaker re	sidence
Class 5: Office buildings	450	390	m²	Required for Class 5: Office building	
Class 6: Retail buildings	0		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	0	_	m²	Required for Class 7a. Calpains Required for Class 7b: Warehouses, wholesalers and storage facilities	
	0	0	m²		
Class 8: Industrial buildings	0	0		Required for Class 8: Industrial buildings, e.g., factories and workshops	
Class 9a: Healthcare buildings	0	,	m²	Required for Class 9a: Healthcare, e.g., hospitals, clinics, day surgeries	
Class 9b: Civic buildings	5,100			Required for Class 9b: Civic buildings, e.g., theatres, civic centres, train stations	
Class 9c: Aged care and personal care buildings	0	0	m²	Required for Class 9c: Aged care and personal care	
Class 10a: Non-habitable buildings	0	0	m²	Required for Class 10a: Non-habitable buildings including sheds, carports and private garage	es
Class 10b: Miscellaneous structures	0	0	m²	Required for Class 10b: Miscellaneous structures, including fences, masts, antennas, retaining	ng walls and swimming pools
Class 10c: Bushfire shelters	0	0	m²	Required for Class 10c: Bushfire shelters not attached to a Class 1a building	
Tota	5,550	5,340	m²	Required: Sum of m² inputs must be more than 0.	
	•	•			
Project information	Value		Unit	Note	
Total cost of project		14,000,000	AUD excl. GST	Required	Include labour, materials, transport, plant, equipment and professional fees. Exclude GST, land, finance, escalation and other costs.
Building design life			vears	Required	If uncertain, enter 50 years
Estimated envelope life			years	Optional	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Estimated replacement cycle for mechanical services			years	Optional	
Estimated replacement cycle for vertical transportation			years	Optional	
Estimated replacement cycle for vertical transportation		10	lycais	Ориона	1
Dimensions of the building and the site	Value		Unit	Note	
	value	2.200			Take and a first and and house and an
Site area		3,280		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		2,590	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)		0	m²	Only needed if different to row above	
Typical floor perimeter		0	m	Required	
Area of external carpark (not included in GFA)		0	m ²	Required. Enter 0 if not applicable.	
Area of external hardstand (not included in GFA)		0	m ²	Required. Enter 0 if not applicable.	
Area of other hard landscaping (not included in GFA)		0	m ²	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		6	no.	Required	
Number of floors/storeys below ground		1	no.	Required. Enter 0 if not applicable.	
Number of floors/storeys of car parking		0	no.	Required. Enter 0 if not applicable.	
Total height above ground		29	m	Required	Measured from the average finished grade to the highest point of the building, excluding protrusions (lighting rods, masts, chimneys, etc.)
			I		
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)	N.A			Required	
Describe recycled content specified in your building (e.g. recycled steel)	N.A			Required	

Comment

Step 2: Quantity of materials

Material category

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

Sub-category 1

Fill out blue cells

Value

Sub-category 3

Sub-category 2

iaterial category	Sub-category 1	Sub-category 2	Sub-category 3	value	Unit of measure Comment	AIQS ACIVINI Code	ICWISS (Level 3 Codes Constitu
Structure							
The structural parts of the building that are	below ground (substructure) a	nd above ground (super	structure).				
his includes fill below the substructure, fo	oundations, basement levels, su	•	•	s, lift shafts and balconies			
excludes external areas such as hardstan	nds, carparks, patios, etc.				Dequired Coverage of aread for structural elements extend below		
Coverage of structural material spend	-	-	-		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	-	=		m³ Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
oncrete in-situ	>10 MPa to ≤20 MPa	-	-		m³ Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
oncrete in-situ	>20 MPa to ≤32 MPa	-	-		m³ Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
oncrete in-situ	>32 MPa to ≤40 MPa	-	-		m³ Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
oncrete in-situ	>40 MPa to ≤50 MPa	-	-	2	m³ Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
oncrete in-situ	>50 MPa to ≤60 MPa	-	-		m³ Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
oncrete in-situ	>60 MPa to ≤80 MPa	-	-		m³ Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
oncrete in-situ	>80 MPa to ≤100 MPa	-	-		m³ Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
oncrete in-situ	>100 MPa	-	-		m³ Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
Concrete pre-cast panel	-	-	-		Please enter reinforcing steel in relevant line items below. If not known at DA stage, please m your best estimate. If not known at CC stage, please ask your supplier.	ake 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		02 or 03
oncrete block/brick	Solid	-	-	6	m³ Enter as <u>cubic metres</u> , calculated as (area in m²) * (thickness in mm / 1000)	01_SB	02 or 03
Concrete block/brick	Solid AAC	-	-		m ³ Solid Aerated Autoclaved Concrete (AAC) block. Enter as <u>cubic metres</u> , calculated as (area in m ²) * (thickness in mm / 1000).	01_SB	02 or 03
<i>N</i> ortar	-	-	-		kg	01_SB	02 or 03
Reinforcing steel	Bar & mesh	-	-	5,0	Include all reinforcing steel bar/mesh in the building's structure in this row. Usually this kg calculated as kg/m³ per concrete element and then summed. Example: 10 m³ of 40 MPa conc @ 100 kg/m³ + 5 m³ of 50 MPa concrete @ 150 kg/m³ = 1,750 kg reinforcing steel.		02 or 03
einforcing 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
ructural steel	Hot rolled structural	-	-		t Examples include universal beams, universal columns and welded beams	01_SB	02 or 03
ructural steel	Cold formed structural	-	-		t Examples include C purlins, Z purlins and all light gauge steel framing	01_SB	02 or 03
ructural steel	Other welded structural	-	-		t	01_SB	02 or 03
ructural steel	Plate	-	-		t Include any allowance for connections here	01_SB	02 or 03
ructural steel	Sheet	-	-		t	01_SB	02 or 03
tainless steel	-	-	-		t Primarily for engineered timber structure connections	02_11	02 or 03
einforced concrete piles	Concrete	-	-		Please enter reinforcing steel in the line below. If not known at DA stage, please make your be estimate. If not known at CC stage, please ask your supplier.	o1_SB	02 or 03
einforced concrete piles	Steel reinforcing				kg If not known at DA stage, please make your best estimate. If not known at CC stage, please a your supplier.	sk 01_SB	02 or 03
eel piles	-	-	-		t Where concrete and reinforcing steel are also used, enter these in the rows above.	01_SB	02 or 03
mber poles/piles	-	-	-		m³ Where concrete and reinforcing steel are also used, enter these in the rows above.	01_SB	02 or 03
mber (solid)	Sawn softwood	-	-	3	m ³	02_11	02 or 03
nber (solid)	Sawn hardwood	-	-		m ³	02_11	02 or 03
nber (engineered)	CLT	-	-		m ³	02_11	02 or 03
nber (engineered)	Glulam	-	-		m ³	02_11	02 or 03
nber (engineered)	LVL	-	-		m ³	02_11	02 or 03
nber (engineered)	OSB	-	-		m³ Enter as <u>cubic metres</u> , calculated as (area of wall in m²) * (thickness in mm / 1000)	02_11	02 or 03
restruct legislated Decel (CID)	Heat cured	-	-		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
ructural Insulated Panel (SIP)	Steel outer	-	-		m² 2	01_SB	02 or 03
ructural Insulated Panel (SIP)	Aluminium outer	-	-		m² 2	01_SB	02 or 03
ructural Insulated Panel (SIP)	Engineered timber outer	-	-		t Include purchased material only. Evaluate site was control.	01_SB	02 or 03
nd & gravel	-	-	-		t Include purchased material only. Exclude site-won material.	01_SB 01_SB	01 01
nd & gravel	- Bituminous	-	-		t Include purchased material only. Exclude site-won material and sand/gravel in concrete.	01_SB	01 or 02 or 03
aterproofing membrane aterproofing membrane	Polyethylene	-	-		m²	01_SB	01 or 02 or 03 01 or 02 or 03
ther structural (Describe and add unit >>)	i oryotriyiono	- .	-		Please enter a description for any structural material that does not fit a predefined classification		01 01 02 01 03
her structural (Describe and add unit >>)			-		Please enter a description for any structural material that does not fit a predefined classification. Please enter a description for any structural material that does not fit a predefined classification.		
		-	-		i loade enter a description for any structural material that dues not lit a predefined classification		

Unit of measure Comment

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



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

AIQS ACMM Code

ICMS3 (Level 3 Codes Construction)

Roof cladding	Profiled steel	-	-	m²	Enter as m² of roof area. Exclude allowances for overlap in the roofing sheets. This row include 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 (ZAI coated steel, whether painted or unpainted.	05 RF	03 or 04
Roof cladding	Profiled aluminium	-	-	m²	Enter as m ² of roof area. Exclude allowances for overlap in the roofing sheets. This row also includes pre-painted aluminium sheets.	05_RF	03 or 04
Roof cladding	Profiled zinc	-	-	m²	Enter as m ² of roof area. Exclude allowances for overlap in the roofing sheets. This row also	05_RF	03 or 04
Roof cladding	Membrane		_	m²	includes pre-painted zinc sheets. Enter as m ² of roof area. Exclude allowances for overlap in the membrane sheets.	05_RF	03 or 04
· ·		-	-	m2	·		
Roof cladding	Tiles (traditional clay)	-	-		Enter as m² of roof area. Exclude allowances for overlap between the tiles.	05_RF	03 or 04
Roof cladding	Tiles (concrete)	-		452	Enter as m² of roof area. Exclude allowances for overlap between the tiles.	05_RF	03 or 04
Roof cladding	Other (Please describe >>)	Glass	-	15 m ²	Please enter a description for any roofing that does not fit a predefined classification	05_RF	03 or 04
Wall cladding	Bricks (heat cured)	-	-	m²	Enter as 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
Wall cladding	Bricks (air dried)	-	-	m²	Enter as m² of wall area. Air-dried bricks are cured using ambient temperature.	06_EW	03 or 04
Wall cladding	Bricks (under fired)	=	-	m²	Enter as m² of wall area.	06_EW	03 or 04
Wall cladding	Bricks (concrete)	=	-	m²	Enter as m² of wall area	06_EW	03 or 04
Wall cladding	Mortar and render	-	-	kg		06_EW	03 or 04
Wall cladding	Profiled steel	-	-	m²	Enter as m ² of wall area. Exclude allowances for overlap in the cladding sheets, offcuts, etc. Th 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 FW	03 or 04
Wall cladding	Profiled aluminium	-	-	m²	Enter as m² of wall area. Exclude allowances for overlap in the cladding sheets, offcuts, etc. Th row also includes pre-painted aluminium sheets.	is 06_EW	03 or 04
Wall cladding	Profiled zinc	-	-	m²	Enter as m² of wall area. Exclude allowances for overlap in the cladding sheets, offcuts, etc. Th row also includes pre-painted zinc sheets.	is 06_EW	03 or 04
Wall cladding	GRC cladding	-	-	m²	Enter as m² of wall area. GRC = Glass Reinforced Concrete.	06_EW	03 or 04
Wall cladding	Timber weatherboards	_	_	m²	Enter as m² of wall area. Exclude allowances for overlap between weatherboards, offcuts, etc.	06_EW	03 or 04
Wall cladding	Fibre cement board	_	_	m²	Enter as m² of wall area. Exclude allowances for offcuts, etc.	06_EW	03 or 04
Wall cladding	Terracotta	_	_	m²	Enter as m² of wall area. Exclude allowances for offcuts, etc.	06_EW	03 or 04
Wall cladding	Brick tiles / veneers	_	_	m²	Enter as m² of wall area. Exclude allowances for offcuts, etc.	06_EW	03 or 04
Wall cladding	Plasterboard	-	-	160 m²	Enter as m² of wall area. Exclude allowances for offcuts, etc. Include both external wall linings	12_WF or 06_EW	03 or 04
Wall cladding	Plywood	-	-	m²	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.	12_WF or 06_EW	03 or 04
Wall cladding	Other (Please describe >>)			m²	Please enter a description for any wall cladding that does not fit a predefined classification	06_EW or 12_WF	03 or 04
Windows & doors	Aluminium frame	Single glazed		300 m ²		07_WW or 08_ED	03 or 04
		Single glazed	-	300 1112	Include all single glazing, including standard, toughened, laminated and low-E		
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 Windows & doors	Aluminium frame Timber frame	Triple glazed	-	m ²	Include all triple glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04 03 or 04
Windows & doors Windows & doors	Timber frame	Single glazed	-	m ²	Include all single glazing, including standard, toughened, laminated and low-E Include all double glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04
Windows & doors Windows & doors		Double glazed	-	m ²		07_WW or 08_ED 07_WW or 08_ED	03 or 04
	Timber frame uPVC frame	Triple glazed	-		Include all triple glazing, including standard, toughened, laminated and low-E		
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 & doors		Double glazed	-	m²	Include all double glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04
Windows & doors	uPVC frame	Triple glazed	-	Im²	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 & doors	Frameless	Triple glazed		m²	Include all triple glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04
Windows & doors	Other (Please describe >>)		-	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
Curtain wall	Single skin façade	Glazed panel	Single 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 low-E		03 or 04
Curtain wall	Single skin façade	Glazed panel	Double glazed	m ²	Include all double glazing, including standard, toughened, laminated and low-E	06_EW	03 or 04
Curtain wall	Single skin façade	Glazed panel	Triple glazed	m²	Include all triple glazing, including standard, toughened, laminated and low-E	06_EW	03 or 04
Curtain wall	Single skin façade	Opaque panel	Aluminium cladding	m²		06_EW	03 or 04
Curtain wall	Single skin façade	Opaque panel	GRC cladding	m²	GRC = Glass-fibre Reinforced Concrete	06_EW	03 or 04
Curtain wall	Single skin façade	Opaque panel	Insulated shadow box	m²		06_EW	03 or 04
Curtain wall	Single skin façade	Opaque panel	Brick cladding	m²		06_EW	03 or 04
Curtain wall	Single skin façade	Opaque panel	Stone cladding	m ²		06_EW	03 or 04
Curtain wall	Double skin façade	Glazed panel	Single glazed	m²	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
Curtain wall	Double skin façade	Glazed panel	Double glazed	m²	The type of glazing refers to the building's envelope wall, not including the outer skin	06_EW	03 or 04
Curtain wall	Double skin façade	Glazed panel	Triple glazed	m²	The type of glazing refers to the building's envelope wall, not including the outer skin	06_EW	03 or 04
Curtain wall	Double skin façade	Opaque panel	Aluminium cladding	m²		06_EW	03 or 04
Curtain wall	Double skin façade	Opaque panel	GRC cladding	m²	GRC = Glass-fibre Reinforced Concrete	06_EW	03 or 04
Curtain wall	Double skin façade	Opaque panel	Insulated shadow box	m²		06_EW	03 or 04
Curtain wall	Double skin façade	Opaque panel	Brick cladding	m²		06_EW	03 or 04
Curtain wall	Double skin façade	Opaque panel	Stone cladding	m²		06_EW	03 or 04
Curtain wall	Other (Please describe >>)		- ·	m²	Please enter a description for any curtain wall that does not fit a predefined classification	06_EW	03 or 04

Stick-framed wall system Aluminium frame Glazed section Duble glazed "" include all double glazing, including standard, toughened, laminated and low-E 06_EW 03 or of Stick-framed wall system Aluminium frame Opaque section Aluminium frame Opaque section GRC clading "" GRC = Glass-fibre Reinforced Concrete 06_EW 03 or of Stick-framed wall system Aluminium frame Opaque section Inside standards by the Concrete 06_EW 03 or of Stick-framed wall system Aluminium frame Opaque section Inside standards by the Concrete 06_EW 03 or of Stick-framed wall system Aluminium frame Opaque section Inside standards by the Concrete 06_EW 03 or of Stick-framed wall system Aluminium frame Opaque section Inside standards by the Concrete 06_EW 03 or of Stick-framed wall system Aluminium frame Opaque section Stoke framed wall system Opaque section Stoke framed wall system Steel frame Opaque section Double glazed 06_EW 03 or of Stick-framed wall system Steel frame Opaque section Opaque section Triple glazed 06_EW 03 or of Stick-framed wall system Steel frame Opaque section Opaque section Triple glazed 06_EW 03 or of Stick-framed wall system Steel frame Opaque section Opaque section Triple glazed 06_EW 03 or of Stick-framed wall system Steel frame Opaque section Opaque section Opaque section Opaque section Opaque section Stick-framed wall system Steel frame Opaque section Stic								
Stick-framed wall system Aluminium frame Ogaque section Triple glazed m² Include all triple glazing, including standard, toughened, laminated and low-E 06_EW 03 or of Stick-framed wall system Aluminium frame Opaque section Roc Cladding m² GRC = Glass-fibre Reinforced Concrete 06_EW 03 or of Stick-framed wall system Aluminium frame Opaque section Brick cladding m² GRC = Glass-fibre Reinforced Concrete 06_EW 03 or of Stick-framed wall system Aluminium frame Opaque section Brick cladding m² GRC = Glass-fibre Reinforced Concrete 06_EW 03 or of Stick-framed wall system Aluminium frame Opaque section Brick cladding m² Include all single glazing, including standard, toughened, laminated and low-E 06_EW 03 or of Stick-framed wall system Steel frame Glazed section Double glazed m² Include all double glazing, including standard, toughened, laminated and low-E 06_EW 03 or of Stick-framed wall system Steel frame Clazed section Double glazed m² Include all double glazing, including standard, toughened, laminated and low-E 06_EW 03 or of Stick-framed wall system Steel frame Opaque section Triple glazed m² Include all double glazing, including standard, toughened, laminated and low-E 06_EW 03 or of Stick-framed wall system Steel frame Opaque section Aluminium cladding m² Include all triple glazing, including standard, toughened, laminated and low-E 06_EW 03 or of Stick-framed wall system Steel frame Opaque section Risk dadding m² Include all triple glazing, including standard, toughened, laminated and low-E 06_EW 03 or of Stick-framed wall system Steel frame Opaque section Risk dadding m² Include all triple glazing, including standard, toughened, laminated and low-E 06_EW 03 or of Stick-framed wall system Steel frame Opaque section Risk dadding m² Include all triple glazing, including standard, toughened, laminated and low-E 06_EW 03 or of Stick-framed wall system Steel frame Opaque section Risk dadding m² Include all triple glazing, including standard, toughened, laminated and low-E 06_EW 03 or of Stick-framed wall system St	Stick-framed wall system	Aluminium frame	Glazed section	Single glazed	m²	Include all single glazing, including standard, toughened, laminated and low-E	06_EW	03 or 04
Stick-framed wall system Aluminium frame Opaque section GRC cladding m² GRC = Glass-fibre Reinforced Concrete 06_EW 03 or of Stick-framed wall system Aluminium frame Opaque section Insulated shadow bx m² GRC = Glass-fibre Reinforced Concrete 06_EW 03 or of Stick-framed wall system Aluminium frame Opaque section Insulated shadow bx m² GRC = Glass-fibre Reinforced Concrete 06_EW 03 or of Stick-framed wall system Aluminium frame Opaque section Stone cladding m² Include all single glazing, including standard, toughened, laminated and low-E 06_EW 03 or of Stick-framed wall system Steel frame Glazed section Opaque section Tiple glazed m² Include all tiple glazing, including standard, toughened, laminated and low-E 06_EW 03 or of Stick-framed wall system Steel frame Glazed section Tiple glazed m² Include all tiple glazing, including standard, toughened, laminated and low-E 06_EW 03 or of Stick-framed wall system Steel frame Opaque section Tiple glazed m² Include all tiple glazing, including standard, toughened, laminated and low-E 06_EW 03 or of Stick-framed wall system Steel frame Opaque section Tiple glazed m² Include all tiple glazing, including standard, toughened, laminated and low-E 06_EW 03 or of Stick-framed wall system Steel frame Opaque section Stone cladding m² For m² Include all tiple glazing, including standard, toughened, laminated and low-E 06_EW 03 or of Stick-framed wall system Steel frame Opaque section Stone cladding m² GRC = Glass-fibre Reinforced Concrete 06_EW 03 or of Stick-framed wall system Steel frame Opaque section Insulated shadow bxx m² Please enter a description for any wall system that does not fit a predefined classification 06_EW 03 or of Stick-framed wall system Aluminium frame Aluminiu	Stick-framed wall system			-	m²		_	03 or 04
Stick-framed wall system Aluminum frame Opaque section Insulated shadow box Insulated shadow	Stick-framed wall system	Aluminium frame	Glazed section	Triple glazed	m²	Include all triple glazing, including standard, toughened, laminated and low-E	_	03 or 04
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 Opaque section Triple glazed Include all triple glazing, including standard, toughened, laminated and low-E Opaque section Stick-framed wall system Steel frame Stick-framed wall system Steel frame Opaque section Aluminium fadding Triple glazed Include all triple glazing, including standard, toughened, laminated and low-E Opaque section Triple glazed Include all triple glazing, including standard, toughened, laminated and low-E Opaque section Triple glazed Include all triple glazing, including standard, toughened, laminated and low-E Opaque section Triple glazed Include all triple glazing, including standard, toughened, laminated and low-E Opaque section Triple glazed Include all triple glazing, including standard, toughened, laminated and low-E Opaque section Triple glazed Include all triple glazing, including standard, toughened, laminated and low-E Opaque section Triple glazed Include all triple glazing, including standard, toughened, laminated and low-E Opaque section Triple glazed Include all triple glazing, including standard, toughened, laminated and low-E Opaque section Triple glazed Include all triple glazing, including standard, toughened, laminated and low-E Opaque section Triple glazed Include all triple glazing, including standard, toughened, laminated and low-E Opaque section Triple glazed Include all triple glazing, including standard, toughened, laminated and low-E Opaque section Triple glazed Include all triple glazing, including standard, toughened, laminated and low-E Opaque section Triple glazed Include all triple glazing, including standard, toughened, laminated and low-E Opaque section Triple glazed Include all triple glazing,	Stick-framed wall system	Aluminium frame	Opaque section	Aluminium cladding	m²		06_EW	03 or 04
Stick-framed wall system Aluminium frame Opaque section Stone cladding M² Include all single glazing, including standard, toughened, laminated and low-E Ge_EW O3 or 6 Stick-framed wall system Steel frame Glazed section Stole glazed M² Include all triple glazing, including standard, toughened, laminated and low-E Ge_EW O3 or 6 Stick-framed wall system Steel frame Glazed section Triple glazed M² Include all triple glazing, including standard, toughened, laminated and low-E Ge_EW O3 or 6 Stick-framed wall system Steel frame Glazed section Triple glazed M² Include all triple glazing, including standard, toughened, laminated and low-E Ge_EW O3 or 6 Stick-framed wall system Steel frame Opaque section Aluminium cladding Stick-framed wall system Steel frame Opaque section Insulated shadow box M² Stick-framed wall system Steel frame Opaque section Store cladding M² Flease enter a description for any wall system that does not fit a predefined classification Ge_EW O3 or 6 Stick-framed wall system Aluminium frame Aluminium frame Aluminium frame Aluminium frame Frazeotta cladding Aluminium frame Flease enter as m² of shaded area = linear metrers "(width in mm / 1000) Ge_EW O3 or 6 GC_C - class-fibre Reinforced Concrete Reserved Concrete Reser	Stick-framed wall system	Aluminium frame	Opaque section	GRC cladding	m²	GRC = Glass-fibre Reinforced Concrete	06_EW	03 or 04
Stick-framed wall system Steel frame Glazed section Single glazed m² Include all single glazing, including standard, toughened, laminated and low-E Glazed section Single glazed m² Include all single glazing, including standard, toughened, laminated and low-E Glazed section Sitck-framed wall system Steel frame Glazed section Druble glazed m² Include all druble glazing, including standard, toughened, laminated and low-E Glazed section M² Include all single glazing, including standard, toughened, laminated and low-E Glazed section Glazed section Sitck-framed wall system Steel frame Opaque section GRC cladding M² GRC = Glass-fibre Reinforced Concrete Ge_EW G3 or GRC = Glass-fibre Reinforced Concrete GG_EW G3 or GRC = Glass-fibre Reinforced Concrete GG_EW G3 or GRC = Glass-fibre Reinforced	Stick-framed wall system	Aluminium frame	Opaque section	Insulated shadow box	m²		06_EW	03 or 04
Stick-framed wall system Steel frame Glazed section Single glazed m² Include all single glazing, including standard, toughened, laminated and low-E Glazed section Double glazed m² Include all double glazing, including standard, toughened, laminated and low-E Glazed section Triple glazed m² Include all triple glazing, including standard, toughened, laminated and low-E Glazed section Triple glazed m² Include all triple glazing, including standard, toughened, laminated and low-E Glazed section Glazed section Triple glazed m² Include all triple glazing, including standard, toughened, laminated and low-E Glazed section Glazed section Glazed section Triple glazed m² Include all triple glazing, including standard, toughened, laminated and low-E Glazed section Glazed section Glazed section Glazed section Triple glazed m² Include all triple glazing, including standard, toughened, laminated and low-E Glazed section Gla	Stick-framed wall system	Aluminium frame	Opaque section	Brick cladding	m²		06_EW	03 or 04
Stick-framed wall system Steel frame Opaque section Opaque section Opaque section Insulated shadow box Stick-framed wall system Steel frame Opaque section Stick-framed wall system Steel frame Opaque section Steel frame Opaque section Steel frame Opaque section Steel frame Opaque section Insulated shadow box Stick-framed wall system Steel frame Opaque section Store cladding Male Stick-framed wall system Steel frame Opaque section Store cladding Male Stick-framed wall system Steel frame Opaque section Store cladding Male Stick-framed wall system Steel frame Opaque section Store cladding Male Steel frame Opaque section Opaque section Store cladding Male Steel frame Opaque section	Stick-framed wall system	Aluminium frame	Opaque section	Stone cladding	m²		06_EW	03 or 04
Stick-framed wall system Steel frame Opaque section Aluminium cladding Stick-framed wall system Steel frame Opaque section Aluminium cladding Stick-framed wall system Steel frame Opaque section Stick-framed wall system Steel frame Opaque section Stick-framed wall system Steel frame Opaque section Insulated shadow box Stick-framed wall system Steel frame Opaque section Insulated shadow box Stick-framed wall system Steel frame Opaque section Insulated shadow box Stick-framed wall system Steel frame Opaque section Stock-framed wall system Steel frame Opaque section Stoce cladding Stick-framed wall system Other (Please describe >>) Steel frame Opaque section Store cladding Stick-framed wall system Other (Please describe >>) Steel frame Aluminium frame Aluminium cladding	Stick-framed wall system	Steel frame	Glazed section	Single glazed	m²	Include all single glazing, including standard, toughened, laminated and low-E	06_EW	03 or 04
Stick-framed wall system Steel frame Opaque section Stick-framed wall system Steel frame Opaque section GRC cladding m² GRC = Glass-fibre Reinforced Concrete O6_EW O3 or GRC = Glass-fibre Reinforced Concrete O6_EW	Stick-framed wall system	Steel frame	Glazed section	Double glazed	m²	Include all double glazing, including standard, toughened, laminated and low-E	06_EW	03 or 04
Stick-framed wall system Steel frame Opaque section Stick-framed wall system Steel frame Opaque section Insulated shadow box Stick-framed wall system Steel frame Opaque section Insulated shadow box Stick-framed wall system Steel frame Opaque section Stoke-framed wall system Steel frame Opaque section Stone cladding M² Stick-framed wall system Steel frame Opaque section Stone cladding M² Stick-framed wall system Steel frame Opaque section Stone cladding M² Stick-framed wall system Steel frame Opaque section Stone cladding M² Please enter a description for any wall system that does not fit a predefined classification O6_EW O3 or 05_EW	Stick-framed wall system	Steel frame	Glazed section	Triple glazed	m²	Include all triple glazing, including standard, toughened, laminated and low-E	06_EW	03 or 04
Stick-framed wall system Steel frame Opaque section Stone cladding Stick-framed wall system Other (Please describe >>) Other (Please de	Stick-framed wall system	Steel frame	Opaque section	Aluminium cladding	700 m²		06_EW	03 or 04
Stick-framed wall system Steel frame Opaque section Stick-framed wall system Steel frame Opaque section Stone cladding Stick-framed wall system Other (Please describe >>) Other (Pleas	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 Stone cladding Stick-framed wall system Other (Please describe >>) Other (Ple	Stick-framed wall system	Steel frame	Opaque section	Insulated shadow box	m²		06_EW	03 or 04
Stick-framed wall system Other (Please describe >>) Wall louvre system Aluminium Aluminium frame Aluminium frame Aluminium frame GRC cladding External shading system Aluminium frame Aluminium frame Aluminium frame Aluminium frame Aluminium frame GRC cladding	Stick-framed wall system	Steel frame	Opaque section	Brick cladding	m²		06_EW	03 or 04
Stick-framed wall system Other (Please describe >>) Wall louvre system Aluminium frame Aluminium frame Aluminium frame Aluminium frame GRC cladding External shading system Aluminium frame Aluminium frame Aluminium frame Aluminium frame GRC cladding	Stick-framed wall system	Steel frame	Opaque section	Stone cladding	m²		06_EW	03 or 04
External shading system Aluminium frame Aluminium frame Aluminium cladding - External shading system Aluminium frame GRC cladding - External shading system Aluminium frame Aluminium frame GRC cladding - External shading system Aluminium frame Terracotta cladding - Terracotta cladding Terracotta cladding Terracotta cladding Terracotta cladding Terracotta cladding	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
External shading system Aluminium frame Alumin	Wall louvre system	Aluminium	-	-	m²		06_EW	03 or 04
External shading system Aluminium frame GRC cladding GRC eldass-fibre Reinforced Concrete. GRC = Glass-fibre Reinforced Concrete. GRC = Glass-fibre Reinforced Concrete. M² Please enter as m² of shaded area = linear metres * (width in mm / 1000) 06_EW 03 or 0	External shading system	Aluminium frame	Aluminium cladding	-	30 m²	Please enter as m² of shaded area = linear metres * (width in mm / 1000)		03 or 04
	External shading system	Aluminium frame	GRC cladding	-	m²		06_EW	03 or 04
Citarel shading victors (Considering from Considering fro	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 - Im- Please enter as m-10 shaded area = linear metres (width in min / 1000) 06_EW 03 or 0	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 - Please enter as m² of shaded area = linear metres * (width in mm / 1000) 06_EW 03 or 0	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 - Please enter as m² of shaded area = linear metres * (width in mm / 1000) 06_EW 03 or 0	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) - Please enter as m² of shaded area = linear metres * (width in mm / 1000) 06_EW 03 or 0	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 - Please enter as m² of shaded area = linear metres * (width in mm / 1000) 06_EW 03 or 0	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 >>) - Please enter as m² of shaded area = linear metres * (width in mm / 1000) 06_EW 03 or (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 150 m ² Please note unit is <u>square metres</u> , not quantity 08_ED 03 or 0	Roller doors	Steel profile	-	-	150 m²	Please note unit is square metres, not quantity	08_ED	03 or 04
Roller doors Hardwood over steel 9 Please note unit is square metres, not quantity 08_ED 03 or 0	Roller doors	Hardwood over steel	-	-	m²	Please note unit is square metres, not quantity	08_ED	03 or 04
Roller doors Softwood over steel 9 Please note unit is square metres, not quantity 08_ED 03 or 0	Roller doors	Softwood over steel	-	-	m²	Please note unit is square metres, not quantity	08_ED	03 or 04
Revolving doors Glass/aluminium/steel 03 or 0	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 0	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 9 no. Please enter as single-leaf equivalent. For double-leaf doors, multiply the quantity by 2. 08_ED 03 or 0	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
		Aluminium/glass	-	-	no.			03 or 04
		•	-	-	3.400 m²			03 or 04
		· ·	-	-	m²	Ţ.		03 or 04
			-	-	m²	· ·		03 or 04
		•	_	-	m²	Ţ.		03 or 04
				_	m²	•		03 or 04
Other (Please describe and add unit >>) Please enter a description for any envelope material that does not fit a predefined classification		(-			The state of the s		33 3. 31
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	,		_	-				
, local state a description of any entropy material and established materials and established ma	The () sale asserts and add and >>)							

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 in	ternal walls and doors			%	Enter the % coverage of speed 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.		
Interior wall (permanent)	Steel (light framing)	-	=	2.40 t		09_NW	03 or 04
Interior wall (permanent)	Timber framing	-	-	m³		09_NW	03 or 04
Interior wall (permanent)	AAC panel (reinforced)	-	-	m²	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	-	-	m²	Panels made from a steel sheet outer with an aerated concrete core. E.g., Speedpanel.	09_NW or 12_WF	03 or 04
Interior wall (permanent)	Plasterboard	-	-	6,300 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	-	-	7,400.0 m ²		09_NW or 12_WF	03 or 04
Interior wall (permanent)	Glass	<u> </u>	-	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	-	-	50 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	-	-	30 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 (Fredse describe and add drift >>)					rease enter a description for any material that does not like a predefined diassilication			
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 mair are base building only, then only enter the values as material costs in dollars.		•		•				
Mechanical services	-	-	-	1,940,000 AUD excl. GST	Where possible, enter material costs excluding labour, plant, equipment, margins and taxes	28_SS	05	
Vertical transportation	-	-	-	555,000 AUD excl. GST	Where possible, enter material costs excluding labour, plant, equipment, margins and taxes	28_SS	05	
Electrical services	-	-	-	1,000,000 AUD excl. GST	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	
Solar photovoltaic installations	-	=	-	220,000 AUD excl. GST	Where possible, enter material costs excluding labour, plant, equipment, margins and taxes	26_LP_LPGP	05	
Plumbing/hydraulic services	-	=	-	832,000 AUD excl. GST	Where possible, enter material costs excluding labour, plant, equipment, margins and taxes	18_PD and 19_WS	05 or 06	
Fire services				2,940,000 AUD excl. 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 excl. 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.

Coverage of spend on external works	-	-	-	80 %	Required. Coverage of <u>spend</u> for external works (excluding soft landscaping) entered below. Minimum requirement = 80%. Exclude head contractor preliminaries and margins.	
Asphalt	_	-	_	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	-	-	m ³	Please enter reinforcing steel as part of "Reinforcing steel" below 33_XR or 34_XN or 35_XB or 36_XL	07
Concrete in-situ	>20 MPa to ≤32 MPa	-	_	m³	Please enter reinforcing steel as part of "Reinforcing steel" below 33_XR or 34_XN or 35_XB or 36_XL	07
Concrete in-situ	>32 MPa to ≤40 MPa	_	_	m³	Please enter reinforcing steel as part of "Reinforcing steel" below 33_XR or 34_XN or 35_XB or 36_XL	07
Concrete in-situ	>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	-	_	m³	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	-	_	220 m²	33 XR	07
Pavers, bricks and blocks	Clay	_	_		33_XR	07
r avoid, brioks and blooks	Ciay			III-	Include all reinforcing steel bar/mesh in the external works in this row. Usually this is	01
Reinforcing steel	Bar & mesh	-	-	kg	calculated as kg/m³ per concrete element and then summed. Example: 10 m³ of 40 MPa concrete 33_XR or 34_XN or 35_XB or 36_XL @ 100 kg/m³ + 5 m³ of 50 MPa concrete @ 150 kg/m³ = 1,750 kg reinforcing steel.	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	-	-	m³	33_XR or 34_XN or 35_XB or 36_XL	07
Timber (solid)	Sawn hardwood	-	-	m³	33_XR or 34_XN or 35_XB or 36_XL	07
Timber (engineered)	CLT	-	-	m³	33_XR or 34_XN or 35_XB or 36_XL	07
Timber (engineered)	Glulam	-	-	m³	33_XR or 34_XN or 35_XB or 36_XL	07
Timber (engineered)	LVL	-	-	m³	33_XR or 34_XN or 35_XB or 36_XL	07
Timber (engineered)	OSB	-	-	m³	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	Behrooz Shojaei	Required
Company	IGS - Integrated Group Services	Required
ABN	68163019029	
Profession	Senior ESD Engineer	Required
Qualification or registration	Professional Engineer - Inst. Engineers Australia Senior ESD Engineer - 20 years of experience NABERS, Green Star Accredited Engineer.	Required

Person that certified the details in this form	Value	Note
Name	Behrooz Shojaei	Required
Company	IGS - Integrated Group Services	Required
ABN	68163019029	
Profession	Senior ESD Engineer	Required
Qualification or registration	Professional Engineer - Inst. Engineers Australia Senior ESD Engineer - 20 years of experience NABERS, Green Star Accredited Engineer.	Required

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

Additional comments from data provider

Additional comments of certifier

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