

to.

MUSWELLBROOK SHIRE COUNCIL
PO Box 122
Muswellbrook NSW 2333

date.

16.05.2025

reference.

44840 - SEPP Sustainable Buildings
Statement_A

To Whom it may Concern,

**SEPP 2022 SSUSTAINABLE BUILDING, STANDARDS FOR NON-RESIDENTIAL
DEVELOPMENT**

DA 2022-95 – MUSWELLBROOK OLYMPIC PARK GRANDSTAND

This statement has been prepared to address the relevant requirement of State Environmental Planning Policy (Sustainable Building) 2022 outlined in chapter 3.2, in relation to Development Approval (DA 2022-95 dated 18th April 2024), for the refurbishment & extension works to the Olympic Park grandstand and amenities located at Lot 7010, DP 93327, 3 Wilkinson Avenue, Muswellbrook.

The following documents and design plan have been referenced in preparing of this letter:

1. Architectural Drawings, prepared by Barnson Pty Ltd.
2. Technical Specification, prepared by Barnson Pty Ltd.
3. Section J Energy Building Efficiency Report, prepared by Centric Building Services Engineers Pty Ltd.
4. Electrical Services Design, prepared by Centric Building Services Engineers Pty Ltd.
5. Mechanical Services Design, prepared by Centric Building Services Engineers Pty Ltd.
6. Hydraulic Services Design, prepared by Centric Building Services Engineers Pty Ltd.
7. Civil Design Drawings, prepared by Barnson Pty Ltd.

State Environmental Planning Policy (Sustainable Building) 2022

Chapter 3 Standards for non-residential development

- (1) In deciding whether to grant development consent to non-residential development, the consent authority must consider whether the development is designed to enable the following-

3.2 (1) a: the minimisation of waste from associated demolition and construction, including by the choice and reuse of building materials

1. The proposed development has been designed to utilize the existing building component where possible including: footing, slab, brick, steel columns & steel seating tier beams.
2. Resilient materials have been proposed to resist the impacts of public use, minimizing on going material use and waste.

3. The design has been formulated to maximize the life span of the building, and ensure it is fit for purpose into the future ensure it does not require extensive retrofits or replacement.

3.2 (1) b: a reduction in peak demand for electricity, including through the use of energy efficient technology

The following design feature have been proposed to reduce peak load electricity demand.

1. Electrical lighting comprised of high efficiency LED light fixture with occupancy sensor to ensure lighting is only turned on when space is being utilised.
2. Onsite electrical production utilizing solar PV panels.
3. Natural ventilation to reduce the use of mechanical systems

3.2 (1) c: a reduction in the reliance on artificial lighting and mechanical heating and cooling through passive design

The following design feature have been proposed to allow for passive lighting, heating and cooling.

1. Where possible cross ventilation has been proposed in place of mechanical ventilation.
2. Glazing has been provided to occupied spaces to allow natural light in place of electrical lighting.
3. Thermal mass has been included to stabilise winter temperatures during the facilities period of peak usage.

3.2 (1) d: the generation and storage of renewable energy

1. Photovoltaic panels have been proposed to both roof surface to service the development.

3.2 (1) e: the metering and monitoring of energy consumption

1. Electrical monitoring system are proposed in accordance with NCC 2022 J9D3 & Electrical Services Design.

3.2 (1) f: the minimisation of the consumption of potable water

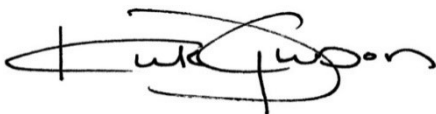
The following design feature have been proposed to reduce potable water use.

1. WELS rated efficiency fixtures are proposed throughout the development.
2. Collection of roof water is proposed into 25,000L onsite storage tanks for irrigation of the playing fields.
3. Provision of low water use landscaping included native plant species and ground cover to reduce evaporation.

Embodies emission attributed to the development have been quantified in the NABER 'Embodied Emissions Material' form completed by Barnson Pty Ltd in accordance with SEPP 2022 chapter 2.2 (2)

Yours faithfully,

BARNSON PTY LTD



Kirk Gleeson

BlndDes, NSW Practitioner DEP0002931

Building Design Manager

Step 1: About the building

Fill out blue cells

Building location and site data		Value	Unit	Note	Comment
Building address		3 Wilkinson Avenue, MUSWELLBROOK			
Postcode		2333		Required	Postcode of building
Town/city		BAERAM + 14 other localities		Required	Town/city/suburb/region of the building site
Distance to nearest major city/town		125	km	Required	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		Construction Certificate		Required	Stage of development
New build or major renovation?		Major renovation		Required	
Brownfield or greenfield site?		Brownfield		Required	

Floor area by NCC building classification		Gross (GFA)	Net (NLAND&UFA)	Unit	Note
Please enter all floor areas relevant to your building. Leave areas blank if not applicable. Please enter Gross Floor Area (GFA) for all building classifications. Please also enter the corresponding net area (Net Lettable Area, Net Sellable Area or Usable Floor Area) when it is commonly used for that building classification.					
Class 1a: Detached residential buildings				m²	Required for Class 1a: Detached residential houses, townhouses
Class 1b: Boarding houses and hostels				m²	Required for Class 1b: Boarding house, guest house, hostel
Class 2: Multi-unit residential buildings				m²	Required for Class 2: Multi-unit residential, including apartment buildings
Class 3: Other residential buildings				m²	Required for Class 3: Other residential buildings
Class 4: Residential inside non-residential				m²	Required for Class 4: Residential building inside a non-residential building, e.g., caretaker residence
Class 5: Office buildings				m²	Required for Class 5: Office building
Class 6: Retail buildings				m²	Required for Class 6: Retail building, e.g., shop, restaurant, café
Class 7a: Carparks				m²	Required for Class 7a: Carparks
Class 7b: Warehouse-type buildings				m²	Required for Class 7b: Warehouses, wholesalers and storage facilities
Class 8: Industrial buildings				m²	Required for Class 8: Industrial buildings, e.g., factories and workshops
Class 9a: Healthcare buildings				m²	Required for Class 9a: Healthcare, e.g., hospitals, clinics, day surgeries
Class 9b: Civic buildings		1,931	956	m²	Required for Class 9b: Civic buildings, e.g., theatres, civic centres, train stations
Class 9c: Aged care and personal care buildings				m²	Required for Class 9c: Aged care and personal care
Class 10a: Non-habitable buildings				m²	Required for Class 10a: Non-habitable buildings including sheds, carports and private garages
Class 10b: Miscellaneous structures				m²	Required for Class 10b: Miscellaneous structures, including fences, masts, antennas, retaining walls and swimming pools
Class 10c: Bushfire shelters				m²	Required for Class 10c: Bushfire shelters not attached to a Class 1a building
Total		1,931	956	m²	Required: Sum of m² inputs must be more than 0.

Project information		Value	Unit	Note
Total cost of project		8,683,659	AUD excl. GST	Required
Building design life		50	years	Required
Estimated envelope life			years	Optional
Estimated replacement cycle for mechanical services			years	Optional
Estimated replacement cycle for vertical transportation			years	Optional

Dimensions of the building and the site		Value	Unit	Note
Site area		113,026	m²	Required
Shared services or infrastructure		No		Required
Building footprint area		782	m²	Required
Typical floor area (if different to building footprint area)			m²	Only needed if different to row above
Typical floor perimeter		229	m	Required
Area of external carpark (not included in GFA)		0	m²	Required: Enter 0 if not applicable.
Area of external hardstand (not included in GFA)		1,604	m²	Required: Enter 0 if not applicable.
Area of other hard landscaping (not included in GFA)		0	m²	Required: Enter 0 if not applicable.
Number of floors/stories above ground, including ground floor		3	no.	Required
Number of floors/stories below ground		0	no.	Required: Enter 0 if not applicable.
Number of floors/stories of car parking		0	no.	Required: Enter 0 if not applicable.
Total height above ground		12	m	Required

Structural material choices		Value	Unit	Note
Foundation type		Slab-on-ground		Required
Frame type (dominant)		Hybrid: Steel, 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)		recycled steel from existing grandstand		Required

Step 2: Quantity of materials

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

Fill out blue cells

Material category	Sub-category 1	Sub-category 2	Sub-category 3	Value	Unit of measure	Comment	AQIS ACMM Code	ICMS3 (Level 3 Codes Construction)
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, roof structure, stairs, lift shafts and balconies. It excludes external areas such as handstands, carparks, patios, etc.								
Coverage of structural material spend	-	-	-		%	Required: Coverage of spend 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
Concrete in-situ	>10 MPa to <20 MPa	-	-	28.0	m³	Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
Concrete in-situ	>20 MPa to <32 MPa	-	-	419.0	m³	Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
Concrete in-situ	>32 MPa to <40 MPa	-	-	346.0	m³	Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
Concrete in-situ	>40 MPa to <50 MPa	-	-		m³	Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
Concrete in-situ	>50 MPa to <60 MPa	-	-		m³	Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
Concrete in-situ	>60 MPa to <80 MPa	-	-		m³	Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
Concrete in-situ	>80 MPa to <100 MPa	-	-		m³	Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
Concrete in-situ	>100 MPa	-	-		m³	Please enter reinforcing steel as part of "Reinforcing steel" below	01_SB or 02-11	02 or 03
Concrete pre-cast panel	-	-	-		m²	Please enter reinforcing steel in relevant line items below. If not known at DA stage, please make your best estimate. If not known at CC stage, please ask your supplier.	01_SB or 02-11	02 or 03
Concrete block	Hollow core	-	-		m³	Enter as <u>public metres</u> , calculated as (area in m²) * (thickness in mm / 1000). Please include all block fill concrete and all reinforcing steel in relevant line items above/below.	01_SB	02 or 03
Concrete block/brick	Solid	-	-		m³	Enter as <u>public metres</u> , calculated as (area in m²) * (thickness in mm / 1000)	01_SB	02 or 03
Concrete block/brick	Solid AAC	-	-		m³	Solid Aerated Autoclaved Concrete (AAC) block.	01_SB	02 or 03
Mortar	-	-	-		kg	Enter as <u>public metres</u> , calculated as (area in m²) * (thickness in mm / 1000).	01_SB	02 or 03
Reinforcing steel	Bar & mesh	-	-	15,890	kg	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 + 15 m³ of 50 MPa concrete @ 150 kg/m³ = 1,750 kg reinforcing steel.	01_SB or 02-11	02 or 03
Reinforcing steel	Fibre & strand	-	-		kg	Include all steel fibre reinforcing and steel strand in the building's structure in this row.	01_SB or 02-11	02 or 03
Structural steel	Hot rolled structural	-	-		t	Examples include universal beams, universal columns and welded beams	01_SB	02 or 03
Structural steel	Cold formed structural	-	-		t	Examples include C purlins, Z purlins and all light gauge steel framing	01_SB	02 or 03
Structural steel	Other welded structural	-	-		t		01_SB	02 or 03
Structural steel	Plate	-	-		t		01_SB	02 or 03
Structural steel	Sheet	-	-		t	Include any allowance for connections here	01_SB	02 or 03
Stainless steel	-	-	-		t		02_11	02 or 03
Reinforced concrete piles	Concrete	-	-		m³	Primarily for engineered timber structure connections	01_SB	02 or 03
Reinforced concrete piles	Steel reinforcing	-	-	38	m³	Please enter reinforcing steel in the line below. If not known at DA stage, please make your best estimate. If not known at CC stage, please ask your supplier.	01_SB	02 or 03
Steel piles	-	-	-		t	If not known at DA stage, please make your best estimate. If not known at CC stage, please ask your supplier.	01_SB	02 or 03
Timber poles/piles	-	-	-		t	Where concrete and reinforcing steel are also used, enter these in the rows above.	01_SB	02 or 03
Timber (solid)	Sawn softwood	-	-		m³	Where concrete and reinforcing steel are also used, enter these in the rows above.	02_11	02 or 03
Timber (solid)	Sawn hardwood	-	-		m³		02_11	02 or 03
Timber (engineered)	CLT	-	-		m³		02_11	02 or 03
Timber (engineered)	Glulam	-	-		m³		02_11	02 or 03
Timber (engineered)	LVL	-	-		m³		02_11	02 or 03
Timber (engineered)	OSB	-	-		m³		02_11	02 or 03
Brick	Heat cured	-	-		m³	Enter as <u>public metres</u> , calculated as (area of wall in m²) * (thickness in mm / 1000)	02_11	02 or 03
Structural Insulated Panel (SIP)	Steel outer	-	-		m²	Enter as <u>public metres</u> , calculated as (area of wall in m²) * (thickness in mm / 1000)	01_SB	02 or 03
Structural Insulated Panel (SIP)	Aluminium outer	-	-		m²		01_SB	02 or 03
Structural Insulated Panel (SIP)	Engineered timber outer	-	-		m²		01_SB	02 or 03
Fill	-	-	-		t	Include purchased material only. Exclude site-won material.	01_SB	01
Sand & gravel	-	-	-		m³	Include purchased material only. Exclude site-won material and sand/gravel in concrete.	01_SB	01
Waterproofing membrane	Bituminous	-	-		m²		01_SB	01 or 02 or 03
Waterproofing membrane	Polyethylene	-	-	1,276	m²		01_SB	01 or 02 or 03
Other structural (Describe and add unit >>)		-	-			Please enter a description for any structural material that does not fit a predefined classification		
Other structural (Describe and add unit >>)		-	-			Please enter a description for any structural material that does not fit a predefined classification		
Other structural (Describe and add unit >>)		-	-			Please enter a description for any structural material that does not fit a predefined classification		
Envelope								
The skin of the building that separates the internal building from the external environment. This includes the roof 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 spend for the envelope items you have entered below. Minimum requirement = 80%. Exclude head contractor preliminaries and margins.		
Roof cladding	Profiled steel	-	-	50	m²	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: galvanneal steel, zinc-aluminium (ZnAlu) coated steel and zinc-aluminium-magnesium (ZAM) coated steel, whether painted or unpainted.	05_RF	03 or 04
Roof cladding	Profiled aluminium	-	-		m²	Enter as m² of roof area. Exclude allowances for overlap in the roofing sheets. This row also includes pre-painted aluminium sheets.	05_RF	03 or 04
Roof cladding	Profiled zinc	-	-		m²	Enter as m² of roof area. Exclude allowances for overlap in the roofing sheets. This row also includes pre-painted zinc sheets.	05_RF	03 or 04
Roof cladding	Membrane	-	-		m²	Enter as m² of roof area. Exclude allowances for overlap in the membrane sheets.	05_RF	03 or 04
Roof cladding	Tiles (traditional clay)	-	-		m²	Enter as m² of roof area. Exclude allowances for overlap between the tiles.	05_RF	03 or 04
Roof cladding	Tiles (concrete)	-	-		m²	Enter as m² of roof area. Exclude allowances for overlap between the tiles.	05_RF	03 or 04
Roof cladding	Other (Please describe >>)	Insulated roof panels	-	80	m²	Please enter a description for any roofing that does not fit a predefined classification	05_RF	03 or 04
Wall cladding	Bricks (heat cured)	-	-		m²	Enter as 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	Enter as m² of wall area	06_EW	03 or 04
Wall cladding	Profiled steel	-	-		m²	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: galvanneal steel, zinc-aluminium (ZnAlu) coated steel and zinc-aluminium-magnesium (ZAM) coated steel, whether painted or unpainted.	06_EW	03 or 04
Wall cladding	Profiled aluminium	-	-		m²	Enter as m² of wall area. Exclude allowances for overlap in the cladding sheets, offcuts, etc. This row also includes pre-painted aluminium sheets.	06_EW	03 or 04
Wall cladding	Profiled zinc	-	-		m²	Enter as m² of wall area. Exclude allowances for overlap in the cladding sheets, offcuts, etc. This row also includes pre-painted zinc sheets.	06_EW	03 or 04
Wall cladding	GRC cladding	-	-		m²	Enter as m² of wall area. GRC = Glass Reinforced Concrete.	06_EW	03 or 04
Wall cladding	Timber weatherboards	-	-	90	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	Terra-cotta	-	-		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	-	-		m²	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	Plywood	-	-		m²	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	-	250	m²	Include all single glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04
Windows & doors	Aluminium frame	Double glazed	-		m²	Include all double glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04
Windows & doors	Aluminium frame	Triple glazed	-		m²	Include all triple glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04
Windows & doors	Timber 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	Timber frame	Double glazed	-		m²	Include all double glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04
Windows & doors	Timber frame	Triple glazed	-		m²	Include all triple glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04
Windows & doors	uPVC frame	Single glazed	-		m²	Include all single glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04
Windows & doors	uPVC frame	Double glazed	-		m²	Include all double glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04
Windows & doors	uPVC frame	Triple glazed	-		m²	Include all triple glazing, including standard, toughened, laminated and low-E	07_WW or 08_ED	03 or 04
Windows & doors	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	06_EW	03 or 04
Curtain wall	Single skin façade	Glazed panel	Double glazed		m²	Include all double glazing, including standard, toughened, laminated and low-E	06_EW	03 or 04
Curtain wall	Single skin façade	Opaque panel	Aluminium cladding		m²	Include all triple glazing, including standard, toughened, laminated and low-E	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		m²		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.	06_EW	03 or 04
Curtain wall	Double skin façade	Glazed panel	Double glazed		m²	Include all single glazing, including standard, toughened, laminated and low-E	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	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	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	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	Double glazed	-		m²	Include all double glazing, including standard, toughened, laminated and low-E	06_EW	03 or 04
Stick-framed wall system	Aluminium frame	Triple glazed	-		m²	Include all triple glazing, including standard, toughened, laminated and low-E	06_EW	03 or 04
Stick-framed wall system	Aluminium frame	Opaque section	Aluminium cladding		m²	GRC = Glass-fibre Reinforced Concrete	06_EW	03 or 04
Stick-framed wall system	Aluminium frame	Opaque section	Insulated shadow box		m²		06_EW	03 or 04
Stick-framed wall system	Aluminium frame	Opaque section	Brick cladding		m²		06_EW	03 or 04
Stick-framed wall system	Aluminium frame	Opaque section	Stone cladding		m²		06_EW	03 or 04
Stick-framed wall system	Steel frame	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	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	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	Aluminium cladding		m²		06_EW	03 or 04
Stick-framed wall system	Steel frame	Opaque section	GRC cladding		m²	GRC = Glass-fibre Reinforced Concrete	06_EW	03 or 04
Stick-framed wall system	Steel frame	Opaque section	Insulated shadow box		m²		06_EW	03 or 04
Stick-framed wall system	Steel frame	Opaque section	Brick cladding		m²		06_EW	03 or 04
Stick-framed wall system	Steel frame	Opaque section	Stone cladding		m²		06_EW	03 or 04

Stick-framed wall system	Other (Please describe >>)		-	m²	Please enter a description for any wall system that does not fit a predefined classification	06_EW	03 or 04	
Wall louvre system	Aluminium	-	-	11	m²		03 or 04	
External shading system	Aluminium frame	Aluminium cladding	-	m²	Please enter as m² of shaded area = linear metres * (width in mm / 1000)	06_EW	03 or 04	
External shading system	Aluminium frame	GRC cladding	-	m²	Please enter as m² of shaded area = linear metres * (width in mm / 1000). GRC = Glass-fibre Reinforced Concrete.	06_EW	03 or 04	
External shading system	Aluminium frame	Terracotta cladding	-	m²	Please enter as m² of shaded area = linear metres * (width in mm / 1000)	06_EW	03 or 04	
External shading system	Aluminium frame	Stone cladding	-	m²	Please enter as m² of shaded area = linear metres * (width in mm / 1000)	06_EW	03 or 04	
External shading system	Aluminium frame	Pre-cast concrete	-	m²	Please enter as m² of shaded area = linear metres * (width in mm / 1000)	06_EW	03 or 04	
External shading system	Aluminium frame	Timber	-	m²	Please enter as m² of shaded area = linear metres * (width in mm / 1000)	06_EW	03 or 04	
External shading system	Aluminium frame	Glass (opaque)	-	m²	Please enter as m² of shaded area = linear metres * (width in mm / 1000)	06_EW	03 or 04	
External shading system	Aluminium frame	Steel	-	m²	Please enter as m² of shaded area = linear metres * (width in mm / 1000)	06_EW	03 or 04	
External shading system	Other (Please describe >>)		-	m²	Please enter as m² of shaded area = linear metres * (width in mm / 1000)	06_EW	03 or 04	
Roller doors	Steel profile	-	-	36	m²	Please note unit is <u>square metres</u> , not quantity	08_ED	03 or 04
Roller doors	Hardwood over steel	-	-	m²	Please note unit is <u>square metres</u> , not quantity	08_ED	03 or 04	
Roller doors	Softwood over steel	-	-	m²	Please note unit is <u>square metres</u> , not quantity	08_ED	03 or 04	
Revolving doors	Glass/aluminium/steel	-	-	no.		08_ED	03 or 04	
Fire-rated doors	Engineered timber	-	-	no.	Please enter as single-leaf equivalent. For double-leaf doors, multiply the quantity by 2.	08_ED	03 or 04	
Fire-rated doors	Steel	-	-	no.	Please enter as single-leaf equivalent. For double-leaf doors, multiply the quantity by 2.	08_ED	03 or 04	
Fire-rated doors	Aluminium/glass	-	-	no.	Please enter as single-leaf equivalent. For double-leaf doors, multiply the quantity by 2.	08_ED	03 or 04	
Insulation	Glass wool / fibre/glass	-	-	2,319	m²	Please include both wall and ceiling insulation	05_RF or 06_EW	03 or 04
Insulation	Stone wool	-	-	m²	Please include both wall and ceiling insulation	05_RF or 06_EW	03 or 04	
Insulation	Polyester	-	-	m²	Please include both wall and ceiling insulation	05_RF or 06_EW	03 or 04	
Insulation	Expanded polystyrene	-	-	m²	Please include both wall and ceiling insulation	05_RF or 06_EW	03 or 04	
Insulation	Other (Please describe >>)		-	m²	Please include both wall and ceiling insulation	05_RF or 06_EW	03 or 04	
Other (Please describe and add unit >>)		-	-		Please enter a description for any envelope material that does not fit a predefined classification			
Other (Please describe and add unit >>)		-	-		Please enter a description for any envelope material that does not fit a predefined classification			
Other (Please describe and add unit >>)		-	-		Please enter a description for any envelope material that does not fit a predefined classification			

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				%	Enter the % coverage of <u>spand</u> for the items you have entered below. There is no minimum requirement; enter what you know. This should include all structural walls. Exclude head contractor preliminaries and margins.		
Interior wall (permanent)	Steel (light framing)	-	-	1,118	m2	09_NW	03 or 04
Interior wall (permanent)	Timber framing	-	-		m²	09_NW	03 or 04
Interior wall (permanent)	ACI panel (reinforced)	-	-		m²	Panels of autoclaved aerated concrete (AAC) with reinforcing steel. E.g., Hebel.	09_NW or 12_WF
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
Interior wall (permanent)	Plasterboard	-	-	160	m²	Enter as single-layer equivalent. If using 2 layers, multiply the area by 2.	09_NW or 12_WF
Interior wall (permanent)	Plywood	-	-		m²	Enter as single-layer equivalent. If using 2 layers, multiply the area by 2.	09_NW or 12_WF
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
Interior wall (permanent)	Insulation	-	-	37.2	m²	09_NW or 12_WF	03 or 04
Interior wall (permanent)	Glass	-	-		m²	09_NW or 12_WF	03 or 04
Interior wall (permanent)	Other (Please describe >>)		-		m²	Please enter a description for any internal wall that does not fit a predefined classification	09_NW or 12_WF
Internal door (permanent)	Aluminium/glass	-	-	16	no.	Please enter as single-leaf equivalent. For double-leaf doors, multiply the quantity by 2.	11_ND
Internal door (permanent)	Timber/glass	-	-		no.	Please enter as single-leaf equivalent. For double-leaf doors, multiply the quantity by 2.	11_ND
Internal door (permanent)	Timber solid lightweight	-	-		no.	Please enter as single-leaf equivalent. For double-leaf doors, multiply the quantity by 2.	11_ND
Internal door (permanent)	Fire resistant	-	-		no.	Please enter as single-leaf equivalent. For double-leaf doors, multiply the quantity by 2.	11_ND
Internal door (permanent)	Steel	-	-	32	no.	Please enter as single-leaf equivalent. For double-leaf doors, multiply the quantity by 2.	11_ND
Internal door (permanent)	Other (Please describe >>)		-		no.	Please enter a description for any internal door that does not fit a predefined classification	11_ND
Other (Please describe and add unit >>)		-	-			Please enter a description for any material that does not fit a predefined classification	
Other (Please describe and add unit >>)		-	-			Please enter a description for any material that does not fit a predefined classification	
Other (Please describe and add unit >>)		-	-			Please enter a description for any material that does not fit a predefined classification	

Services

Building services included within the main building contract. If the building components that are the subject of the development application or the construction certificate are base building only, then only enter these items. If you cannot split services by type, please enter them all in the "Other services" category at the bottom. Enter all values as material costs in dollars.									
Mechanical services				290,000	AUD excl. GST	Where possible, enter material costs excluding labour, plant, equipment, margins and taxes	28_SS	05	
Vertical transportation				120,000	AUD excl. GST	Where possible, enter material costs excluding labour, plant, equipment, margins and taxes	28_SS	05	
Electrical services				745,820	AUD excl. GST	Electrical services including the main power supply, backup generators, security and communications. Excluding solar installations.	26_LP	05	
Solar photovoltaic installations					AUD excl. GST	Where possible, enter material costs excluding labour, plant, equipment, margins and taxes	26_LP_LPGP	05	
Plumbing/hydraulic services				250,500	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				52,000	AUD excl. GST	Where possible, enter material costs excluding labour, plant, equipment, margins and taxes	25_FPS04 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).	28_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.

Average of spend on external works	-	-	-	%	Required. Coverage of <u>spend</u> for external works (excluding soft landscaping) entered below. Minimum requirement = 80%. Exclude head contractor preliminaries and margins.		
Asphalt	-	-	-	t		33_XR	07
Concrete in-situ	≤10 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	>10 MPa to ≤20 MPa	-	1,200.0	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	>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	-	-	m³	Please enter reinforcing steel as part of "Reinforcing steel" below	33_XR or 34_XN or 35_XB or 36_XL	07
Concrete in-situ	>50 MPa	-	-	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	-	-	m²		33_XR	07
Pavers, bricks and blocks	Clay	-	-	m²		33_XR	07
Reinforcing steel	Bar & mesh	-	-	kg	Include all reinforcing steel bar/mesh in the external works in this row. Usually this is calculated as kg/m² per concrete element and then summed. Example: 10 m² of 40 MPa concrete @ 100 kg/m² + 5 m² of 50 MPa concrete @ 150 kg/m² = 1,750 kg reinforcing steel.	33_XR or 34_XN or 35_XB or 36_XL	07
Reinforcing steel	Fibre & strand	-	-	kg	Include all steel fibre reinforcing and steel strand in the external works in this row.	33_XR or 34_XN or 35_XB or 36_XL	07
Structural steel	-	-	-	t		02_11	
Structural aluminium	-	-	-	t	Includes structures, louvre systems, etc.	35_XB	
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	Chloe Gesler	Required
Company	Barnson PTY LTD	Required
ABN	43 088 342 625	
Profession	Graduate Architect	Required
Qualification or registration	Bachelor of Design (Architecture), University of Ne	Required

Person that certified the details in this form	Value	Note
Name	Kirk Gleeson	Required
Company	Barnson PTY LTD	Required
ABN	43 088 342 625	
Profession	Building Designer	Required
Qualification or registration	Accredited Mem. of BDA, Acc. No. 6289	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.