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10 March 2026

Department of Planning, Housing & Infrastructure c/o
Tactical Group
Level 15
124 Walker Street
North Sydney NSW 2060

Attention: Tasgall Rae
Email: trae@tacticalgroup.com.au

Dear Tasgall,

**GLENFIELD INDUSTRIAL PRECINCT – PRECINCT 1
EMBODIED EMISSIONS MATERIALS FORM**

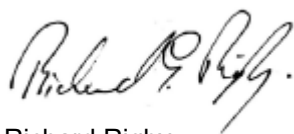
We have completed the *NABERS Embodied Emissions Material Form* to accompany the Development Application for the proposed project at Glenfield Industrial Precinct – Precinct 1. The quantities included within this assessment are extracted from our report titled *EDC Estimate Report – GWS Moorebank – Park 1 – Final* dated 10 March 2026.

Our review is based on items as clearly identified in the form only and does not include any other additional items such as groundworks, fitout, finishes and soft landscaping. Where details are not available on the documentation, we have made assumptions based on our experience and expertise, in accordance with the level of detail in the design documentation used to compose our aforementioned report.

Rider Levett Bucknall accepts no responsibility, or liability, to any other party who might use or rely upon this report without our prior knowledge and written consent. Further, no portion of this report (included without limitation any conclusions which may affect value, the identity of Rider Levett Bucknall or its Sub-Contractors, or any individuals signing or associated with this report, or the Professional Associations or Organisations with which they are affiliated) shall be copied or disseminated to third parties, by any means, without the prior written consent and approval of Rider Levett Bucknall.

Should you have any queries, please do not hesitate to contact us.

Yours faithfully



Richard Rigby
Director
Rider Levett Bucknall
MRICS (77082)
Richard.Rigby@au.rlb.com

Step 1: About the building

Fill out blue cells

Building location and site data	Value	Unit
Building address	2 Cambridge Ave, Glenfield	
Postcode	2167	
Town/city	GLENFIELD	
Distance to nearest major city/town		km
Project stage	Development Application	
New build or major renovation?	New build	
Brownfield or greenfield site?	Greenfield	

Floor area by NCC building classification	Gross (GFA)	Net (NLA/NSA/UFA)	Unit
Please enter all floor areas relevant to your building. Leave areas blank if not applicable. Please enter Gross Floor Area (GFA) for all building classifications. Please also enter the corresponding net area (Net Lettable Area, Net Sellable Area or Usable Floor Area) where it is commonly used for that building classification.			
Class 1a: Detached residential buildings			m ²
Class 1b: Boarding houses and hostels			m ²
Class 2: Multi-unit residential buildings			m ²
Class 3: Other residential buildings			m ²
Class 4: Residential inside non-residential			m ²
Class 5: Office buildings	2,226		m ²
Class 6: Retail buildings			m ²
Class 7a: Carparks			m ²
Class 7b: Warehouse-type buildings	77,404		m ²
Class 8: Industrial buildings			m ²
Class 9a: Healthcare buildings			m ²
Class 9b: Civic buildings			m ²
Class 9c: Aged care and personal care buildings			m ²
Class 10a: Non-habitable buildings			m ²
Class 10b: Miscellaneous structures			m ²
Class 10c: Bushfire shelters			m ²
Total	79,630	0	m ²

Project information	Value	Unit
Total cost of project	165,405,782	AUD excl. GST
Building design life	50	years
Estimated envelope life		years
Estimated replacement cycle for mechanical services		years
Estimated replacement cycle for vertical transportation		years

Dimensions of the building and the site	Value	Unit
Site area	172,738	m ²
Shared services or infrastructure	Yes	
Building footprint area	78,858	m ²
Typical floor area (if different to building footprint area)		m ²

Typical floor perimeter	814	m
Area of external carpark (not included in GFA)	9,607	m ²
Area of external hardstand (not included in GFA)	22,373	m ²
Area of other hard landscaping (not included in GFA)	24,717	m ²
Number of floors/storeys above ground, including ground floor	2	no.
Number of floors/storeys below ground	0	no.
Number of floors/storeys of car parking	1	no.
Total height above ground	15	m
Structural material choices	Value	Unit
Foundation type	Slab-on-ground	
Frame type (dominant)	Steel	
Suspended floor type (typical)	Reinforced concrete	
Describe low carbon materials specified in your building (e.g. green concrete, low carbon bricks)	Unknown at this stage	
Describe recycled content specified in your building (e.g. recycled steel)	Unknown at this stage	

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
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 hardstands, car parks, patios, etc.					
Coverage of structural material spend	-	-	-	100	%
Concrete in-situ	≤10 MPa	-	-		m³
Concrete in-situ	>10 MPa to ≤20 MPa	-	-		m³
Concrete in-situ	>20 MPa to ≤32 MPa	-	-		m³
Concrete in-situ	>32 MPa to ≤40 MPa	-	-	13,016.6	m³
Concrete in-situ	>40 MPa to ≤50 MPa	-	-	7.5	m³
Concrete in-situ	>50 MPa to ≤60 MPa	-	-		m³
Concrete in-situ	>60 MPa to ≤80 MPa	-	-		m³
Concrete in-situ	>80 MPa to ≤100 MPa	-	-		m³
Concrete in-situ	>100 MPa	-	-		m³
Concrete pre-cast panel	-	-	-	1,017.4	m³
Concrete block	Hollow core	-	-		m³
Concrete block/brick	Solid	-	-		m³
Concrete block/brick	Solid AAC	-	-		m³
Mortar	-	-	-		kg
Reinforcing steel	Bar & mesh	-	-	109,974	kg
Reinforcing steel	Fibre & strand	-	-	433,462	kg
Structural steel	Hot rolled structural	-	-	1,765.21	t
Structural steel	Cold formed structural	-	-		t
Structural steel	Other welded structural	-	-		t
Structural steel	Plate	-	-		t
Structural steel	Sheet	-	-		t
Stainless steel	-	-	-		t
Reinforced concrete piles	Concrete	-	-	1,949	m³
Reinforced concrete piles	Steel reinforcing				kg
Steel piles	-	-	-		t
Timber poles/piles	-	-	-		m³
Timber (solid)	Sawn softwood	-	-		m³
Timber (solid)	Sawn hardwood	-	-		m³
Timber (engineered)	CLT	-	-		m³
Timber (engineered)	Glulam	-	-		m³
Timber (engineered)	LVL	-	-		m³
Timber (engineered)	OSB	-	-		m³
Brick	Heat cured	-	-		m³
Structural Insulated Panel (SIP)	Steel outer	-	-		m²
Structural Insulated Panel (SIP)	Aluminium outer	-	-		m²
Structural Insulated Panel (SIP)	Engineered timber outer	-	-		m²
Fill	-	-	-		t
Sand & gravel	-	-	-	49,539	t
Waterproofing membrane	Bituminous	-	-		m²
Waterproofing membrane	Polyethylene	-	-	77,839	m²
Other structural (Describe and add unit >>)		-	-		
Other structural (Describe and add unit >>)		-	-		
Other structural (Describe and add unit >>)		-	-		

Envelope

The skin of the building that separates the internal building from the external environment.

This includes the roof cladding, wall cladding, windows, doors and internal/external shading. It also includes insulation and the internal wall lining of envelope walls.

Coverage of envelope material spend	-	-	-	98 %
Roof cladding	Profiled steel	-	-	85,142 m ²
Roof cladding	Profiled aluminium	-	-	m ²
Roof cladding	Profiled zinc	-	-	m ²
Roof cladding	Membrane	-	-	m ²
Roof cladding	Tiles (traditional clay)	-	-	m ²
Roof cladding	Tiles (concrete)	-	-	m ²
Roof cladding	Other (Please describe >>)		-	m ²
Wall cladding	Bricks (heat cured)	-	-	m ²
Wall cladding	Bricks (air dried)	-	-	m ²
Wall cladding	Bricks (under fired)	-	-	m ²
Wall cladding	Bricks (concrete)	-	-	m ²
Wall cladding	Mortar and render	-	-	kg
Wall cladding	Profiled steel	-	-	15,304 m ²
Wall cladding	Profiled aluminium	-	-	323 m ²
Wall cladding	Profiled zinc	-	-	m ²
Wall cladding	GRC cladding	-	-	m ²
Wall cladding	Timber weatherboards	-	-	m ²
Wall cladding	Fibre cement board	-	-	m ²
Wall cladding	Terracotta	-	-	m ²
Wall cladding	Brick tiles / veneers	-	-	m ²
Wall cladding	Plasterboard	-	-	m ²
Wall cladding	Plywood	-	-	m ²
Wall cladding	Other (Please describe >>)		-	m ²
Windows & doors	Aluminium frame	Single glazed	-	m ²
Windows & doors	Aluminium frame	Double glazed	-	807 m ²
Windows & doors	Aluminium frame	Triple glazed	-	m ²
Windows & doors	Timber frame	Single glazed	-	m ²
Windows & doors	Timber frame	Double glazed	-	m ²
Windows & doors	Timber frame	Triple glazed	-	m ²
Windows & doors	uPVC frame	Single glazed	-	m ²
Windows & doors	uPVC frame	Double glazed	-	m ²
Windows & doors	uPVC frame	Triple glazed	-	m ²
Windows & doors	Frameless	Single glazed	-	m ²
Windows & doors	Frameless	Double glazed	-	m ²
Windows & doors	Frameless	Triple glazed	-	m ²
Windows & doors	Other (Please describe >>)		-	m ²
Curtain wall	Single skin façade	Glazed panel	Single glazed	m ²
Curtain wall	Single skin façade	Glazed panel	Double glazed	m ²
Curtain wall	Single skin façade	Glazed panel	Triple glazed	m ²
Curtain wall	Single skin façade	Opaque panel	Aluminium cladding	m ²
Curtain wall	Single skin façade	Opaque panel	GRC cladding	m ²

Curtain wall	Single skin façade	Opaque panel	Insulated shadow box		m²
Curtain wall	Single skin façade	Opaque panel	Brick cladding		m²
Curtain wall	Single skin façade	Opaque panel	Stone cladding		m²
Curtain wall	Double skin façade	Glazed panel	Single glazed		m²
Curtain wall	Double skin façade	Glazed panel	Double glazed		m²
Curtain wall	Double skin façade	Glazed panel	Triple glazed		m²
Curtain wall	Double skin façade	Opaque panel	Aluminium cladding		m²
Curtain wall	Double skin façade	Opaque panel	GRC cladding		m²
Curtain wall	Double skin façade	Opaque panel	Insulated shadow box		m²
Curtain wall	Double skin façade	Opaque panel	Brick cladding		m²
Curtain wall	Double skin façade	Opaque panel	Stone cladding		m²
Curtain wall	Other (Please describe >>)		-		m²
Stick-framed wall system	Aluminium frame	Glazed section	Single glazed		m²
Stick-framed wall system	Aluminium frame	Glazed section	Double glazed		m²
Stick-framed wall system	Aluminium frame	Glazed section	Triple glazed		m²
Stick-framed wall system	Aluminium frame	Opaque section	Aluminium cladding		m²
Stick-framed wall system	Aluminium frame	Opaque section	GRC cladding		m²
Stick-framed wall system	Aluminium frame	Opaque section	Insulated shadow box		m²
Stick-framed wall system	Aluminium frame	Opaque section	Brick cladding		m²
Stick-framed wall system	Aluminium frame	Opaque section	Stone cladding		m²
Stick-framed wall system	Steel frame	Glazed section	Single glazed		m²
Stick-framed wall system	Steel frame	Glazed section	Double glazed		m²
Stick-framed wall system	Steel frame	Glazed section	Triple glazed		m²
Stick-framed wall system	Steel frame	Opaque section	Aluminium cladding		m²
Stick-framed wall system	Steel frame	Opaque section	GRC cladding		m²
Stick-framed wall system	Steel frame	Opaque section	Insulated shadow box		m²
Stick-framed wall system	Steel frame	Opaque section	Brick cladding		m²
Stick-framed wall system	Steel frame	Opaque section	Stone cladding		m²
Stick-framed wall system	Other (Please describe >>)		-		m²
Wall louvre system	Aluminium	-	-		m²
External shading system	Aluminium frame	Aluminium cladding	-	202	m²
External shading system	Aluminium frame	GRC cladding	-		m²
External shading system	Aluminium frame	Terracotta cladding	-		m²
External shading system	Aluminium frame	Stone cladding	-		m²
External shading system	Aluminium frame	Pre-cast concrete	-		m²
External shading system	Aluminium frame	Timber	-		m²
External shading system	Aluminium frame	Glass (opaque)	-		m²
External shading system	Aluminium frame	Steel	-		m²
External shading system	Other (Please describe >>)		-		m²
Roller doors	Steel profile	-	-	948	m²
Roller doors	Hardwood over steel	-	-		m²
Roller doors	Softwood over steel	-	-		m²
Revolving doors	Glass/aluminium/steel	-	-		no.
Fire-rated doors	Engineered timber	-	-	67	no.
Fire-rated doors	Steel	-	-		no.
Fire-rated doors	Aluminium/glass	-	-	5	no.
Insulation	Glass wool / fibreglass	-	-	85,464.8	m²
Insulation	Stone wool	-	-		m²
Insulation	Polyester	-	-		m²
Insulation	Expanded polystyrene	-	-		m²
Insulation	Other (Please describe >>)		-		m²
Other (Please describe and add unit >>)		-	-		
Other (Please describe and add unit >>)		-	-		
Other (Please describe and add unit >>)		-	-		

Permanent internal walls and doors

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

Coverage of material spend on permanent internal walls and doors				100	%
Interior wall (permanent)	Steel (light framing)	-	-		t
Interior wall (permanent)	Timber framing	-	-		m³
Interior wall (permanent)	AAC panel (reinforced)	-	-		m²
Interior wall (permanent)	Concrete-filled steel panel	-	-		m²
Interior wall (permanent)	Plasterboard	-	-	646	m²
Interior wall (permanent)	Plywood	-	-		m²
Interior wall (permanent)	Fibre cement sheet	-	-		m²
Interior wall (permanent)	Insulation	-	-	646.0	m²
Interior wall (permanent)	Glass	-	-		m²
Interior wall (permanent)	Other (Please describe >>)		-		m²
Internal door (permanent)	Aluminium/glass	-	-		no.
Internal door (permanent)	Timber/glass	-	-		no.
Internal door (permanent)	Timber solid lightweight	-	-	16	no.
Internal door (permanent)	Fire resistant	-	-		no.
Internal door (permanent)	Steel	-	-		no.
Internal door (permanent)	Other (Please describe >>)		-		no.
Other (Please describe and add unit >>)		-	-		
Other (Please describe and add unit >>)		-	-		
Other (Please describe and add unit >>)		-	-		

Services

Unit of measure

Building services included within the main building contract. If the building components that are the subject of the development application or the construction certificate are base building only, then only enter these items. If you cannot split services by type, please enter them all in the "Other services" category at the bottom. Enter all values as material costs in dollars.

Mechanical services	-	-	-	451,956	AUD excl. GST
Vertical transportation	-	-	-	144,000	AUD excl. GST
Electrical services	-	-	-	9,170,965	AUD excl. GST
Solar photovoltaic installations	-	-	-		AUD excl. GST
Plumbing/hydraulic services	-	-	-	4,008,205	AUD excl. GST
Fire services				2,379,288	AUD excl. GST
Other services (Please describe)	Dock Leveller	-	-	332,520	AUD excl. GST
Other services (Please describe)	Gas Venting System	-	-	1,036,428	AUD excl. GST

External works

The materials associated with hard landscaping and outbuildings on the site but outside the building envelope.

This includes hardstands, carparks, driveways, covered walkways, decks, patios, awnings, fences, gates, etc. Soft landscaping should be excluded.

Coverage of spend on external works	-	-	-	95	%
Asphalt	-	-	-	3,065	t
Concrete in-situ	≤10 MPa	-	-		m³
Concrete in-situ	>10 MPa to ≤20 MPa	-	-	145.6	m³
Concrete in-situ	>20 MPa to ≤32 MPa	-	-	3,624.5	m³
Concrete in-situ	>32 MPa to ≤40 MPa	-	-	620.3	m³
Concrete in-situ	>40 MPa to ≤50 MPa	-	-		m³
Concrete in-situ	>50 MPa	-	-		m³
Pavers, bricks and blocks	Concrete	-	-	6,802	m²
Pavers, bricks and blocks	Clay	-	-		m²
Reinforcing steel	Bar & mesh	-	-	207,143	kg
Reinforcing steel	Fibre & strand	-	-		kg
Structural steel	-	-	-	82	t
Structural aluminium	-	-	-		t

External roof/wall cladding	Polycarbonate	-	-		m ²
External roof/wall cladding	PVC	-	-		m ²
External roof/wall cladding	Bitumen sheet	-	-		m ²
External roof/wall cladding	Steel profile	-	-		m ²
Fill	-	-	-		t
Sand & gravel	-	-	-	13,442	t
Timber (solid)	Sawn softwood	-	-		m ³
Timber (solid)	Sawn hardwood	-	-		m ³
Timber (engineered)	CLT	-	-		m ³
Timber (engineered)	Glulam	-	-		m ³
Timber (engineered)	LVL	-	-		m ³
Timber (engineered)	OSB	-	-		m ³
Fabric (awning/sunshade)					m ²
Other (Please describe and add unit >>)		-	-		
Other (Please describe and add unit >>)		-	-		
Other (Please describe and add unit >>)		-	-		

Person that completed this form	Value	Note
Name	Alexander Wang	Required
Company	Rider Levett Bucknall	Required
ABN		
Profession	Senior Quantity Surveyor	Required
Qualification or registration	BCPM(Hons)	Required

Person that certified the details in this form	Value	Note
Name	Richard Rigby	Required
Company	Rider Levett Bucknall	Required
ABN		
Profession	Director	Required
Qualification or registration	MRICS (77082)	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