

29 January 2024

Chief Executive Officer Douglas Shire Council PO Box 723 Mossman Qld 4873

Attention: Development Assessment

Dear Sir/Madam

### RE: APPLICATION FOR DEVELOPMENT PERMIT – Building Works– Shed – 26 Miallo Bamboo Creek Road Miallo, Lot 2 on SP332263

Rapid Building Approvals acting on behalf of the owners of the abovementioned land (Ian O'Donaghue & Kelly Morriswe seek a **Development Permit for Building Works (Shed) at 26 Miallo Bamboo Creek Road Miallo, Lot 2 on SR153** 

The property is zoned Environmental Management, within the planning scheme identifying a Building works as code assessable.

Applicable Code	Compliance	Comment
Environmental Management Zone	Ø	Complies. Refer to the code assessment.
Acid Sulfate Soils Overlay	Ø	Complies. The proposal will undertake soil testing and can comply with the requirements of the code.
Flood and Storm Tide Inundation Overlay	Ø	Complies. The proposal is for a non-habitable building.
Excavation and Filling	Ø	Complies. No significant excavation and filling is required for the shed. Proposal can comply with all other aspects of the code.
Infrastructure Works	Ø	Complies. Proposal is for a shed and all the required infrastructure can be accommodated.

In support of this development application, the following material has been provided:

- 1. DA Form 1 and 2
- 2. Plans
- 3. Response to relevant Planning Scheme Codes
- 4. Application fee

Should you require any further information or assistance in relation to this manner please don't hesitate to contact Ryan Bird on (07) 4229 0835 or via email at approvals@rapidapprovals.com.au.

Regards,



Scott Wheeler

### Code Responses

## Environmental Management Zone Code

Performance outcomes	Acceptable outcomes	Applicant response
For self-assessable and assessable development		
<b>PO1</b> The height of all buildings and structures is in keeping with the natural characteristics of the site. Buildings and structures are low-rise and not unduly visible from external sites.	<ul> <li>AO1.1 Buildings and structures are not more than 8.5 metres and two storeys in height. Note – Height is inclusive of the roof height. </li> <li>AO1.2 Buildings have a roof height not less than 2 metres.</li></ul>	<b>Complies.</b> Proposed shed is a maximum height of 3.57 metres.
PO2 Buildings and structures are set back to: (a) maintain the natural character of the area; (b) achieve separation from neighbouring buildings and from road frontages.	<ul> <li>AO2</li> <li>Buildings and structures are set back not less than:</li> <li>(a) 40 metres from the frontage of a state controlled road;</li> <li>(b) 25 metres from the frontage to Cape Tribulation Road;</li> <li>(c) 6 metres from any other road;</li> <li>(d) 6 metres from the side and rear boundaries of the site.</li> </ul>	<b>Complies PO2.</b> The side setback for the proposed shed is non-compliant. The location of the proposed shed is to the rear of the property and will not adjoin any structures on the adjoining allotment. The shed will separated by vegetation and screened from view from the neighbouring allotment. It also will not be visible from the street.
For assessable development	I	I
<b>PO3</b> Development is consistent with the purpose of the Environmental management zone and protects the zone from	AO3 Inconsistent uses as identified in Table 6.2.4.3.b are not established in the Environmental management zone.	<b>Complies.</b> A domestic shed is consistent with the zone.



Performance outcomes	Acceptable outcomes	Applicant response
the intrusion of inconsistent uses.		
PO4 The site coverage of all buildings and structures and associated services do not have an adverse effect on the environmental or scenic values of the site.	<b>PO4</b> No acceptable outcomes are prescribed.	Complies.
PO5 Development is located, designed, operated and managed to respond to the characteristics, features and constraints of the site and its surrounds. Note - Planning scheme policy – Site assessments provides guidance on identifying the characteristics, features and constraints of a site and its surrounds.	<ul> <li>AO5.1</li> <li>Buildings, structures and associated access, infrastructure and private open space are sited:</li> <li>(a) within areas of the site which are already cleared; or</li> <li>(b) within areas of the site which are environmentally degraded;</li> <li>(c) to minimise additional vegetation clearing.</li> </ul>	<b>Complies.</b> The site is cleared.
	AO5.2 Buildings and structures and associated infrastructure are not located on slopes greater than 1 in 6 (16.6%) or on a ridgeline.	Not applicable.
<ul> <li>PO6</li> <li>Buildings and structures are responsive to steep slope through innovative construction techniques so as to:</li> <li>(a) maintain the geotechnical stability of slopes;</li> <li>(b) minimise cut and/or fill;</li> <li>(c) minimise the overall height of development.</li> </ul>	<b>AO6.1</b> Where development on land steeper than 1 in 6 (16.6%) cannot be avoided, development follows the natural contours of the land and single plane concrete slab on-ground methods of construction are not utilised.	Not applicable.
	AO6.2	Complies.



Performance outcomes	Acceptable outcomes	Applicant response
	<ul> <li>Access and vehicle manoeuvring and parking areas are constructed and maintained to:</li> <li>(a) minimise erosion;</li> <li>(b) minimise cut and fill;</li> <li>(c) follow the natural contours of the site.</li> </ul>	
<b>PO7</b> The exterior finishes of buildings and structures are consistent with the surrounding natural environment.	<b>PO7</b> The exterior finishes and colours of buildings and structures are non-reflective and are moderately dark to darker shades of grey, green, blue and brown or the development is not visible external to the site.	<b>Complies.</b> The proposed shed will be dull grey and will be screened from view from outside the site.
<b>PO8</b> Development does not adversely affect the amenity of the zone and adjoining land uses in terms of traffic, noise, dust, odour, lighting or other physical or environmental impacts.	AO8 No acceptable outcomes are prescribed.	<b>Complies.</b> Proposal is for a shed and will not result in any adverse impacts to adjoining allotments.
<b>PO9</b> The density of development ensures that the environmental and scenic amenity values of the site and surrounding area are not adversely affected.	<b>AO9</b> The maximum residential density is one dwelling house per lot.	Complies.
PO10 Lot reconfiguration results in no additional lots. Note - Boundary realignments to resolve encroachments and lot amalgamation are considered appropriate.	AO10 No acceptable outcomes are prescribed.	Not applicable.

# DA Form 1 – Development application details

Approved form (version 1.6 effective 2 August 2024) made under section 282 of the Planning Act 2016.

This form **must** be used to make a development application **involving code assessment or impact assessment**, except when applying for development involving only building work.

For a development application involving building work only, use DA Form 2 – Building work details.

For a development application involving building work associated with any other type of assessable development (i.e. material change of use, operational work or reconfiguring a lot), use this form (*DA Form 1*) and parts 4 to 6 of *DA Form 2 – Building work details*.

Unless stated otherwise, all parts of this form **must** be completed in full and all required supporting information **must** accompany the development application.

One or more additional pages may be attached as a schedule to this development application if there is insufficient space on the form to include all the necessary information.

This form and any other form relevant to the development application must be used to make a development application relating to strategic port land and Brisbane core port land under the *Transport Infrastructure Act 1994*, and airport land under the *Airport Assets (Restructuring and Disposal) Act 2008.* For the purpose of assessing a development application relating to strategic port land and Brisbane core port land, any reference to a planning scheme is taken to mean a land use plan for the strategic port land, Brisbane port land use plan for Brisbane core port land, or a land use plan for airport land.

Note: All terms used in this form have the meaning given under the Planning Act 2016, the Planning Regulation 2017, or the Development Assessment Rules (DA Rules).

1) Applicant details				
Applicant name(s) (individual or company full name)	Ian O'Donaghue & Kelly Morris			
Contact name (only applicable for companies)	Scott Wheeler C/- RAPID Building Approvals			
Postal address (P.O. Box or street address)	Suite 7 2-4 Stanton Road			
Suburb	Smithfield			
State	QLD			
Postcode	4878			
Country	Australia			
Contact number	1300 163 814			
Email address (non-mandatory)	approvals@rapidapprovals.com.au			
Mobile number (non-mandatory)				
Fax number (non-mandatory)				
Applicant's reference number(s) (if applicable)	5147/24			
1.1) Home-based business				
Personal details to remain private in accordance with section 264(6) of <i>Planning Act</i> 2016				
2) Owner's consent				
2.1) Is written consent of the owner required for this development application?				
$\Box$ Yes – the written consent of the owner(s) is attached to this development application $\Box$ No – proceed to 3)				

# PART 1 – APPLICANT DETAILS



# PART 2 – LOCATION DETAILS

3.1) Street address and lot on plan         Street address AND to on plan (call lots must be listed), or         Street address AND to on plan for an adjoining or adjacent property of the premises (appropriate for development in water but adjoining or adjacent to land e.g. jety, portion. All lots must be listed).         unit No.       Street Name and Type       Suburb         a)       26       Miallo Bamboo Creek Road       Miallo         a)       Postcode       Lot No.       Plan Type and Number (e.g. RP, SP)       Local Government Area(s)         4873       2       SR153       Douglas Shire Council         b)       Postcode       Lot No.       Plan Type and Number (e.g. RP, SP)       Local Government Area(s)         c.ordinates of premises (appropriate for development in remote areas, over part of a lot or in water not adjoining or adjacent to land e.g. channel development in remote areas, over part of a lot or in water not adjoining or adjacent to land e.g. channel development is a separate row.         Coordinates of premises by longitude and latitude       Local Government Area(s) (if applicable)         Longitude(s)       Latitude(s)       Datum       Local Government Area(s) (if applicable)         c.coordinates of premises by easting and northing       Easting(s)       Northing(s)       Zone Ref.       Datum       Local Government Area(s) (if applicable)         3.3) Additional premises       GoDA94       GoDA94	3.1) Street address and lot on plan         Street address AND ict on plan (all kits must be listed), or         Interest address AND ict on plan (all kits must be listed).         Unit No.       Street address AND ict on plan (all kits must be listed).         Unit No.       Street address AND ict on plan (all kits must be listed).         Unit No.       Street Name and Type       Suburb         26       Milalio Bamboo Creek Road       Milalo         a)       Postcode       Lot No.       Plan Type and Number (e.g. RP, SP)       Local Government Area(s)         4873       2       SR153       Douglas Shire Council         b)       Postcode       Lot No.       Plan Type and Number (e.g. RP, SP)       Local Government Area(s)         7       Postcode       Lot No.       Plan Type and Number (e.g. RP, SP)       Local Government Area(s)         0       Postcode       Lot No.       Plan Type and Number (e.g. RP, SP)       Local Government Area(s)         0       Postcode       Lot No.       Plan Type and Number (e.g. RP, SP)       Local Government Area(s)         0       Postcode       Lot No.       Plan Type and Number (e.g. RP, SP)       Local Government Area(s)         0       Postcode       Lot No.       Plan Type and Number (e.g. RP, SP)       Local Government Area(s)	<ul> <li>3) Location of the premises (complete 3.1) or 3.2), and 3.3) as applicable)</li> <li>Note: Provide details below and attach a site plan for any or all premises part of the development application. For further information, see <u>DA</u> Forms Guide: Relevant plans.</li> </ul>								
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On airport land under the Airport Assets (Restructuring and Disposal) Act 2008				
Name of airport:				
Listed on the Environmental Management Register (EM	IR) under the Environmental Protection Act 1994			
EMR site identification:				
Listed on the Contaminated Land Register (CLR) under the Environmental Protection Act 1994				
CLR site identification:				
5) Are there any existing easements over the premises?				

Note: Easement uses vary throughout Queensland and are to be identified correctly and accurately. For further information on easements and how they may affect the proposed development, see <u>DA Forms Guide.</u>

Yes – All easement locations, types and dimensions are included in plans submitted with this development application

🛛 No

# PART 3 – DEVELOPMENT DETAILS

### Section 1 – Aspects of development

6.1) Provide details about th	e first development aspect				
a) What is the type of development? (tick only one box)					
Material change of use	Reconfiguring a lot	Operational work	Building work		
b) What is the approval type	? (tick only one box)				
Development permit	Preliminary approval	Preliminary approval that	includes a variation approval		
c) What is the level of asses	sment?				
Code assessment	Impact assessment (requi	res public notification)			
d) Provide a brief description lots):	n of the proposal (e.g. 6 unit apart	tment building defined as multi-unit d	welling, reconfiguration of 1 lot into 3		
Shed					
e) Relevant plans Note: Relevant plans are required <u>Relevant plans.</u>	to be submitted for all aspects of this	development application. For further i	information, see <u>DA Forms guide:</u>		
$\boxtimes$ Relevant plans of the pro	Relevant plans of the proposed development are attached to the development application				
6.2) Provide details about th	e second development aspect				
<ul><li>6.2) Provide details about th</li><li>a) What is the type of development</li></ul>	e second development aspect opment? (tick only one box)				
<ul><li>6.2) Provide details about th</li><li>a) What is the type of develo</li><li>Material change of use</li></ul>	e second development aspect opment? ( <i>tick only one box)</i>	Operational work	Building work		
<ul> <li>6.2) Provide details about th</li> <li>a) What is the type of develo</li> <li>Aterial change of use</li> <li>b) What is the approval type</li> </ul>	e second development aspect ppment? (tick only one box)  Reconfiguring a lot ? (tick only one box)	Operational work	Building work		
<ul> <li>6.2) Provide details about th</li> <li>a) What is the type of develo</li> <li>Material change of use</li> <li>b) What is the approval type</li> <li>Development permit</li> </ul>	e second development aspect opment? (tick only one box) Reconfiguring a lot ? (tick only one box) Preliminary approval	Operational work     Preliminary approval that	Building work		
<ul> <li>6.2) Provide details about th</li> <li>a) What is the type of develo</li> <li>Aterial change of use</li> <li>b) What is the approval type</li> <li>Development permit</li> <li>c) What is the level of asses</li> </ul>	e second development aspect ppment? (tick only one box)   Reconfiguring a lot  (tick only one box)  Preliminary approval sment?	Operational work  Preliminary approval that	Building work		
<ul> <li>6.2) Provide details about th</li> <li>a) What is the type of develo</li> <li>Material change of use</li> <li>b) What is the approval type</li> <li>Development permit</li> <li>c) What is the level of asses</li> <li>Code assessment</li> </ul>	e second development aspect opment? (tick only one box) Reconfiguring a lot ? (tick only one box) Preliminary approval sment? Impact assessment (require	Operational work  Preliminary approval that res public notification)	Building work		
<ul> <li>6.2) Provide details about th <ul> <li>a) What is the type of development</li> <li>b) What is the approval type</li> <li>Development permit</li> <li>c) What is the level of asses</li> <li>Code assessment</li> <li>d) Provide a brief description lots):</li> </ul></li></ul>	e second development aspect opment? (tick only one box)	Operational work Preliminary approval that res public notification) tment building defined as multi-unit defi	Building work t includes a variation approval welling, reconfiguration of 1 lot into 3		
<ul> <li>6.2) Provide details about th <ul> <li>a) What is the type of develo</li> <li>Aterial change of use</li> <li>b) What is the approval type</li> <li>Development permit</li> <li>c) What is the level of asses</li> <li>Code assessment</li> <li>d) Provide a brief description lots):</li> </ul></li></ul>	e second development aspect ppment? (tick only one box)   Reconfiguring a lot  (tick only one box)  Preliminary approval sment?  Impact assessment (requi of the proposal (e.g. 6 unit apart	Operational work  Preliminary approval that res public notification) tment building defined as multi-unit def	Building work t includes a variation approval welling, reconfiguration of 1 lot into 3		
<ul> <li>6.2) Provide details about th <ul> <li>a) What is the type of develo</li> <li>Aaterial change of use</li> <li>b) What is the approval type</li> <li>Development permit</li> <li>c) What is the level of asses</li> <li>Code assessment</li> <li>d) Provide a brief description lots):</li> </ul> </li> <li>e) Relevant plans <ul> <li>Note: Relevant plans are required to Relevant plans.</li> </ul> </li> </ul>	e second development aspect opment? (tick only one box)   Reconfiguring a lot  (tick only one box)  Preliminary approval sment?  Impact assessment (requi of the proposal (e.g. 6 unit apart o be submitted for all aspects of this c	Operational work  Preliminary approval that res public notification) tment building defined as multi-unit de levelopment application. For further in	Building work t includes a variation approval welling, reconfiguration of 1 lot into 3 nformation, see <u>DA Forms Guide:</u>		



### 6.3) Additional aspects of development

 Additional aspects of development are relevant to this development application and the details for these aspects that would be required under Part 3 Section 1 of this form have been attached to this development application
 Not required

### 6.4) Is the application for State facilitated development?

- Yes Has a notice of declaration been given by the Minister?
- 🛛 No

### Section 2 - Further development details

7) Does the proposed development application involve any of the following?			
Material change of use	Yes – complete division 1 if assessable against a local planning instrument		
Reconfiguring a lot	Yes – complete division 2		
Operational work	Yes – complete division 3		
Building work	🛛 Yes – complete DA Form 2 – Building work details		

### Division 1 – Material change of use

Note: This division is only required to be completed if any part of the development application involves a material change of use assessable against a local planning instrument.

8.1) Describe the proposed material char	nge of use				
Provide a general description of the proposed use	Provide the planning scheme definition (include each definition in a new row)	Number of dwelling units (if applicable)	Gross floor area (m <sup>2</sup> ) <i>(if applicable)</i>		
8.2) Does the proposed use involve the u	8.2) Does the proposed use involve the use of existing buildings on the premises?				
☐ Yes					
□ No					
8.3) Does the proposed development relate to temporary accepted development under the Planning Regulation?					
Yes – provide details below or include	e details in a schedule to this development	t application			
□ No					
Provide a general description of the temporary accepted development		Specify the stated pe under the Planning R	riod dates egulation		

### Division 2 – Reconfiguring a lot

Note: This division is only required to be completed if any part of the development application involves reconfiguring a lot.

9.1) What is the total number of existing lots making up the premises?			
9.2) What is the nature of the lot reconfiguration? (tick all applicable boxes)			
Subdivision (complete 10) Dividing land into parts by agreement (complete 11)			
Boundary realignment (complete 12)       Creating or changing an easement giving access to a log from a constructed road (complete 13)			



10) Subdivision					
10.1) For this development, how many lots are being created and what is the intended use of those lots:					
Intended use of lots created	Residential	Commercial	Industrial	Other, please specify:	
Number of lots created					

10.2) Will the subdivision be staged?	
Yes – provide additional details below	
□ No	
How many stages will the works include?	
What stage(s) will this development application apply to?	

11) Dividing land into parts by agreement – how many parts are being created and what is the intended use of the parts?					
Intended use of parts created	Residential	Commercial	Industrial	Other, please specify:	
Number of parts created					

12) Boundary realignment					
12.1) What are the current a	nd proposed areas for each lo	t comprising the premises?			
Current lot Proposed lot					
Lot on plan description	Area (m <sup>2</sup> )	Lot on plan description	Area (m <sup>2</sup> )		
12.2) What is the reason for the boundary realignment?					

13) What are the dimensions and nature of any existing easements being changed and/or any proposed easement? (attach schedule if there are more than two easements)					
Existing or proposed?Width (m)Length (m)Purpose of the easement? (e.g. pedestrian access)Identify the land/lot(s) benefitted by the easement				Identify the land/lot(s) benefitted by the easement	

## Division 3 – Operational work

Note: This division is only required to be completed if any part of the development application involves operational work.

14.1) What is the nature of the operational work?				
Road work	Stormwater	Water infrastructure		
Drainage work	Earthworks	Sewage infrastructure		
Landscaping	🗌 Signage	Clearing vegetation		
Other – please specify:				
14.2) Is the operational work necessary to facilitate the creation of new lots? (e.g. subdivision)				
Yes – specify number of new lo	its:			
No				



14.3) What is the monetary value of the proposed operational work? (include GST, materials and labour) \$

## PART 4 – ASSESSMENT MANAGER DETAILS

15) Identify the assessment manager(s) who will be assessing this development application

**Douglas Shire Council** 

16) Has the local government agreed to apply a superseded planning scheme for this development application?

Yes – a copy of the decision notice is attached to this development application

The local government is taken to have agreed to the superseded planning scheme request – relevant documents attached

🛛 No

# PART 5 – REFERRAL DETAILS

17) Does this development application include any aspects that have any referral requirements? Note: A development application will require referral if prescribed by the Planning Regulation 2017. No, there are no referral requirements relevant to any development aspects identified in this development application - proceed to Part 6 Matters requiring referral to the Chief Executive of the Planning Act 2016: Clearing native vegetation Contaminated land (unexploded ordnance) Environmentally relevant activities (ERA) (only if the ERA has not been devolved to a local government) Fisheries – aquaculture Fisheries – declared fish habitat area Fisheries – marine plants Fisheries – waterway barrier works Hazardous chemical facilities Heritage places – Queensland heritage place (on or near a Queensland heritage place) Infrastructure-related referrals – designated premises Infrastructure-related referrals – state transport infrastructure □ Infrastructure-related referrals – State transport corridor and future State transport corridor □ Infrastructure-related referrals – State-controlled transport tunnels and future state-controlled transport tunnels Infrastructure-related referrals – near a state-controlled road intersection Koala habitat in SEQ region – interfering with koala habitat in koala habitat areas outside koala priority areas Koala habitat in SEQ region – key resource areas Ports – Brisbane core port land – near a State transport corridor or future State transport corridor Ports – Brisbane core port land – environmentally relevant activity (ERA) Ports – Brisbane core port land – tidal works or work in a coastal management district Ports – Brisbane core port land – hazardous chemical facility Ports – Brisbane core port land – taking or interfering with water Ports – Brisbane core port land – referable dams Ports – Brisbane core port land – fisheries Ports – Land within Port of Brisbane's port limits (below high-water mark) SEQ development area SEQ regional landscape and rural production area or SEQ rural living area – tourist activity or sport and recreation activity SEQ regional landscape and rural production area or SEQ rural living area – community activity SEQ regional landscape and rural production area or SEQ rural living area – indoor recreation SEQ regional landscape and rural production area or SEQ rural living area – urban activity SEQ regional landscape and rural production area or SEQ rural living area – combined use SEQ northern inter-urban break – tourist activity or sport and recreation activity



<ul> <li>SEQ northern inter-urban break – community activity</li> <li>SEQ northern inter-urban break – indoor recreation</li> <li>SEQ northern inter-urban break – urban activity</li> <li>SEQ northern inter-urban break – combined use</li> <li>Tidal works or works in a coastal management district</li> <li>Reconfiguring a lot in a coastal management district or for a canal</li> <li>Erosion prone area in a coastal management district</li> <li>Urban design</li> <li>Water-related development – taking or interfering with water</li> <li>Water-related development – removing quarry material (<i>from a watercourse or lake</i>)</li> <li>Water-related development – referable dams</li> <li>Water-related development – levees (<i>category 3 levees only</i>)</li> <li>Wetland protection area</li> </ul>				
Matters requiring referral to the local government:				
<ul> <li>Airport land</li> <li>Environmentally relevant activities (ERA) (only if the ERA</li> <li>Heritage places – Local heritage places</li> </ul>	has been devolved to local government)			
Matters requiring referral to the <b>Chief Executive of the di</b>	stribution entity or transmissi e	on entity:		
<ul> <li>Matters requiring referral to:</li> <li>The Chief Executive of the holder of the licence, if</li> <li>The holder of the licence, if the holder of the licence</li> <li>Infrastructure-related referrals – Oil and gas infrastruct</li> </ul>	not an individual is an individual ure			
Matters requiring referral to the <b>Brisbane City Council:</b> Ports – Brisbane core port land				
Matters requiring referral to the <b>Minister responsible for</b> <ul> <li>Ports – Brisbane core port land (where inconsistent with the</li> <li>Ports – Strategic port land</li> </ul>	administering the Transport In Brisbane port LUP for transport reasons	nfrastructure Act 1994:		
Matters requiring referral to the <b>relevant port operator</b> , if Ports – Land within Port of Brisbane's port limits <i>(below</i> )	applicant is not port operator: high-water mark)			
Matters requiring referral to the <b>Chief Executive of the re</b>	levant port authority: r mark)			
Matters requiring referral to the Gold Coast Waterways Authority:				
Matters requiring referral to the <b>Queensland Fire and Emergency Service:</b> Tidal works or work in a coastal management district (involving a marina (more than six vessel berths))				
18) Has any referral agency provided a referral response t	or this development application?			
☐ Yes – referral response(s) received and listed below and No	e attached to this development a	application		
Referral requirement	Referral agency	Date of referral response		

Identify and describe any changes made to the proposed development application that was the subject of the referral response and this development application, or include details in a schedule to this development application *(if applicable).* 

# PART 6 – INFORMATION REQUEST

### 19) Information request under the DA Rules

I agree to receive an information request if determined necessary for this development application

I do not agree to accept an information request for this development application

Note: By not agreeing to accept an information request I, the applicant, acknowledge:

 that this development application will be assessed and decided based on the information provided when making this development application and the assessment manager and any referral agencies relevant to the development application are not obligated under the DA Rules to accept any additional information provided by the applicant for the development application unless agreed to by the relevant parties

• Part 3 under Chapter 1 of the DA Rules will still apply if the application is an application listed under section 11.3 of the DA Rules or

• Part 2under Chapter 2 of the DA Rules will still apply if the application is for state facilitated development

Further advice about information requests is contained in the DA Forms Guide.

# PART 7 – FURTHER DETAILS

20) Are there any associated development applications or current approvals? (e.g. a preliminary approval)				
$\Box$ Yes – provide details below or include details in a schedule to this development application $\boxtimes$ No				
List of approval/development application references Reference number Date Assessment manager				
Approval     Development application				
Approval     Development application				

21) Has the portable long service leave levy been paid? (only applicable to development applications involving building work or operational work)				
<ul> <li>Yes – a copy of the receipted QLeave form is attached to this development application</li> <li>No – I, the applicant will provide evidence that the portable long service leave levy has been paid before the assessment manager decides the development application. I acknowledge that the assessment manager may give a development approval only if I provide evidence that the portable long service leave levy has been paid</li> <li>Not applicable (e.g. building and construction work is less than \$150,000 excluding GST)</li> </ul>				
Amount paid	Date paid (dd/mm/yy)     QLeave levy number (A, B or E)			
\$\$ 0.00	\$\$ 0.00			
22) Is this development application in response to a show cause notice or required as a result of an enforcement notice?				
<ul> <li>☐ Yes – show cause or enforcement notice is attached</li> <li>☑ No</li> </ul>				

23) Further legislative require	ments		
Environmentally relevant activities			
23.1) Is this development app	lication also taken to be an application for an environmental authority for an		
Environmentally Relevant A	Ctivity (ERA) under section 115 of the Environmental Protection Act 1994?		
Yes – the required attachr	nent (form ESR/2015/1791) for an application for an environmental authority ment application, and details are provided in the table below.		
<b>Note:</b> Application for an environment requires an environmental authority t	al authority can be found by searching "ESR/2015/1791" as a search term at <u>www.gld.gov.au</u> . An ERA to operate. See <u>www.business.gld.gov.au</u> for further information.		
Proposed ERA number:	Proposed ERA threshold:		
Proposed ERA name:			
Multiple ERAs are application this development application	ble to this development application and the details have been attached in a schedule to on.		
Hazardous chemical facilitie	es		
23.2) Is this development app	lication for a hazardous chemical facility?		
Yes – Form 536: Notificati application	on of a facility exceeding 10% of schedule 15 threshold is attached to this development		
🖾 No			
Note: See <u>www.business.qld.gov.au</u>	for further information about hazardous chemical notifications.		
Clearing native vegetation			
the chief executive of the Veg section 22A of the Vegetation	application involve <b>clearing native vegetation</b> that requires written confirmation that retation Management Act 1999 is satisfied the clearing is for a relevant purpose under Management Act 1999?		
Yes – this development application includes written confirmation from the chief executive of the Vegetation Management Act 1999 (s22A determination)			
No			
<ul> <li>Where a development application for operational work of material change of use requires a \$22A determination and this is not included, the development application is prohibited development.</li> <li>See <u>https://www.qld.gov.au/environment/land/vegetation/applying</u> for further information on how to obtain a \$22A determination.</li> </ul>			
Environmental offsets			
23.4) Is this development application taken to be a prescribed activity that may have a significant residual impact on a prescribed environmental matter under the Environmental Offsets Act 2014?			
Yes – I acknowledge that an environmental offset must be provided for any prescribed activity assessed as having a significant residual impact on a prescribed environmental matter			
No			
environmental offsets.			
Koala habitat in SEQ Regio	<u>n</u>		
23.5) Does this development application involve a material change of use, reconfiguring a lot or operational work which is assessable development under Schedule 10, Part 10 of the Planning Regulation 2017?			
Yes – the development ap	plication involves premises in the koala habitat area in the koala priority area		
Yes – the development ap	plication involves premises in the koala habitat area outside the koala priority area		
<b>Note:</b> If a koala habitat area determined evelopment application. See koala	ination has been obtained for this premises and is current over the land, it should be provided as part of this habitat area guidance materials at <u>www.desi.qld.gov.au</u> for further information.		



Water resources
23.6) Does this development application involve taking or interfering with underground water through an artesian or subartesian bore, taking or interfering with water in a watercourse, lake or spring, or taking overland flow water under the <i>Water Act 2000</i> ?
<ul> <li>Yes – the relevant template is completed and attached to this development application and I acknowledge that a relevant authorisation or licence under the <i>Water Act 2000</i> may be required prior to commencing development</li> <li>No</li> </ul>
Note: Contact the Department of Resources at <u>www.resources.qid.gov.au</u> for further information.
<ul> <li>Taking or interfering with underground water through an artesian or subartesian bore: complete DA Form 1 Template 1</li> <li>Taking or interfering with water in a watercourse, lake or spring: complete DA Form1 Template 2</li> <li>Taking overland flow water: complete DA Form 1 Template 3.</li> </ul>
<u>Waterway barrier works</u> 23.7) Does this application involve waterway barrier works?
$\Box$ Yes – the relevant template is completed and attached to this development application $\boxtimes$ No
DA templates are available from <u>planning.statedevelopment.qld.gov.au</u> . For a development application involving waterway barrier works, complete DA Form 1 Template 4.
Marine activities
23.8) Does this development application involve aquaculture, works within a declared fish habitat area or removal, disturbance or destruction of marine plants?
Yes – an associated <i>resource</i> allocation authority is attached to this development application, if required under the <i>Fisheries Act 1994</i>
Note: See guidenee materials at your datald gov ou for further information
Ouerry meterials from a wetercourse or lake
under the Water Act 2000?
Yes – I acknowledge that a quarry material allocation notice must be obtained prior to commencing development No
Note: Contact the Department of Resources at www.resources.qld.gov.au and www.business.qld.gov.au for further information.
Quarry materials from land under tidal waters
23.10) Does this development application involve the <b>removal of quarry materials from land under tidal water</b> under the <i>Coastal Protection and Management Act 1995?</i>
☐ Yes – I acknowledge that a quarry material allocation notice must be obtained prior to commencing development ⊠ No
<b>Note</b> : Contact the Department of Environment, Science and Innovation at <u>www.desi.qld.gov.au</u> for further information.
Referable dams
23.11) Does this development application involve a <b>referable dam</b> required to be failure impact assessed under section 343 of the <i>Water Supply (Safety and Reliability) Act 2008</i> (the Water Supply Act)?
<ul> <li>Yes – the 'Notice Accepting a Failure Impact Assessment' from the chief executive administering the Water Supply Act is attached to this development application</li> <li>No</li> </ul>

Note: See guidance materials at <u>www.resources.qld.gov.au</u> for further information.



Tidal work or development	within a coastal manageme	nt district	
23.12) Does this development	t application involve <b>tidal wo</b>	rk or development in a coas	tal management district?
<ul> <li>Yes – the following is inclusion involves properties of title</li> <li>A certificate of title</li> <li>No</li> <li>Note: See guidance materials at www.</li> </ul>	Ided with this development ap sal meets the code for assess escribed tidal work) w.desi.gld.gov.au for further information	oplication: able development that is pres	cribed tidal work (only required
Queensland and local herita	age places		
23.13) Does this development heritage register or on a place	t application propose develop ce entered in a local governm	oment on or adjoining a place pent's <b>Local Heritage Registe</b>	entered in the <b>Queensland</b> e <b>r</b> ?
Yes – details of the heritage No Note: See guidance materials at www For a heritage place that has cultural under the Planning Act 2016 that limit development on the stated cultural he information regarding assessment of	Je place are provided in the ta <u>w.desi.qld.gov.au</u> for information require I heritage significance as a local herit it a local categorising instrument from eritage significance of that place. Se Gueensland heritage places.	able below uirements regarding development of tage place and a Queensland heritag n including an assessment benchman e guidance materials at www.plannin	Queensland heritage places. e place, provisions are in place k about the effect or impact of, g.statedevelopment.qldgov.au for
Name of the heritage place:		Place ID:	
Decision under section 62 c	of the Transport Infrastruct	ure Act 1994	
23.14) Does this development	t application involve new or c	hanged access to a state-con	trolled road?
<ul> <li>Yes – this application will be <i>Infrastructure Act 1994</i> (sur- satisfied)</li> <li>No</li> </ul>	be taken to be an application bject to the conditions in sect	for a decision under section 6 ion 75 of the <i>Transport Infras</i>	2 of the <i>Transport</i> <i>tructure Act 1994</i> being
Walkable neighbourhoods assessment benchmarks under Schedule 12A of the Planning Regulation			
23.15) Does this development (except rural residential zones	t application involve reconfigu s), where at least one road is	uring a lot into 2 or more lots in created or extended?	n certain residential zones
<ul> <li>Yes – Schedule 12A is appreciated and the schedule 12A have been constant of No</li> <li>No</li> <li>Note: See guidance materials at www.</li> </ul>	plicable to the development a sidered	pplication and the assessmer	t benchmarks contained in

# PART 8 – CHECKLIST AND APPLICANT DECLARATION

24) Development application checklist	
I have identified the assessment manager in question 15 and all relevant referral requirement(s) in question 17 <i>Note: See the Planning Regulation 2017 for referral requirements</i>	⊠ Yes
If building work is associated with the proposed development, Parts 4 to 6 of <u>DA Form 2 –</u> <u>Building work details</u> have been completed and attached to this development application	⊠ Yes ☐ Not applicable
Supporting information addressing any applicable assessment benchmarks is with the development application Note: This is a mandatory requirement and includes any relevant templates under question 23, a planning report and any technical reports required by the relevant categorising instruments (e.g. local government planning schemes, State Planning Policy, State Development Assessment Provisions). For further information, see <u>DA</u> Forms Guide: Planning Report Template.	⊠ Yes
Relevant plans of the development are attached to this development application <b>Note</b> : Relevant plans are required to be submitted for all aspects of this development application. For further information, see <u>DA Forms Guide: Relevant plans.</u>	⊠ Yes
The portable long service leave levy for QLeave has been paid, or will be paid before a development permit is issued (see 21)	☐ Yes ⊠ Not applicable



### 25) Applicant declaration

By making this development application, I declare that all information in this development application is true and correct

Where an email address is provided in Part 1 of this form, I consent to receive future electronic communications from the assessment manager and any referral agency for the development application where written information is required or permitted pursuant to sections 11 and 12 of the *Electronic Transactions Act 2001* 

Note: It is unlawful to intentionally provide false or misleading information.

**Privacy** – Personal information collected in this form will be used by the assessment manager and/or chosen assessment manager, any relevant referral agency and/or building certifier (including any professional advisers which may be engaged by those entities) while processing, assessing and deciding the development application. All information relating to this development application may be available for inspection and purchase, and/or published on the assessment manager's and/or referral agency's website.

Personal information will not be disclosed for a purpose unrelated to the *Planning Act 2016*, Planning Regulation 2017 and the DA Rules except where:

- such disclosure is in accordance with the provisions about public access to documents contained in the *Planning Act 2016* and the Planning Regulation 2017, and the access rules made under the *Planning Act 2016* and Planning Regulation 2017; or
- required by other legislation (including the Right to Information Act 2009); or
- otherwise required by law.
- This information may be stored in relevant databases. The information collected will be retained as required by the *Public Records Act 2002.*

# PART 9 – FOR COMPLETION OF THE ASSESSMENT MANAGER – FOR OFFICE USE ONLY

Date received:	Reference num	per(s):	
Notification of engagement of	of alternative assessment mar	nager	
Prescribed assessment man	ager		
Name of chosen assessmen	t manager		
Date chosen assessment ma	anager engaged		
Contact number of chosen a	ssessment manager		
Relevant licence number(s) of chosen assessment manager			
QLeave notification and payment Note: For completion by assessment manager if applicable			
Description of the work		Shed	
QLeave project number			
Amount paid (\$)	\$ 0.00	Date paid (dd/mm/yy)	
Date receipted form sighted by assessment manager		12/20/2024	
Name of officer who sighted the form		Scott Wheeler	

# DA Form 2 – Building work details

Approved form (version 1.2 effective 7 February 2020) made under Section 282 of the Planning Act 2016.

This form must be used to make a development application involving building work.

For a development application involving **building work only**, use this form (*DA Form 2*) only. The DA Forms Guide provides advice about how to complete this form.

For a development application involving **building work associated and any other type of assessable development** (i.e. material change of use, operational work or reconfiguring a lot), use *DA Form 1 – Development application details* **and** parts 4 to 6 of this form (*DA Form 2*).

Unless stated otherwise, all parts of this form **must** be completed in full and all required supporting information **must** accompany the development application.

One or more additional pages may be attached as a schedule to this development application if there is insufficient space on the form to include all the necessary information.

This form and any other form relevant to the development application must be used to make a development application relating to strategic port land and Brisbane core port land under the *Transport Infrastructure Act 1994*, and airport land under the *Airport Assets (Restructuring and Disposal) Act 2008*. For the purpose of assessing a development application relating to strategic port land and Brisbane core port land, any reference to a planning scheme is taken to mean a land use plan for the strategic port land, Brisbane port land use plan for Brisbane core port land, or a land use plan for airport land.

Note: All terms used in this form have the meaning given under the Planning Act 2016, the Planning Regulation 2017, or the Development Assessment Rules (DA Rules).

# PART 1 – APPLICANT DETAILS

1) Applicant details	
Applicant name(s) (individual or company full name)	Totalspan Cairns C/- Rapid Building Approvals
Contact name (only applicable for companies)	Scott Wheeler
Postal address (PO Box or street address)	610 Bruce Highway
Suburb	Woree
State	QLD
Postcode	4868
Country	
Contact number	07 4054 6122
Email address (non-mandatory)	cairns@totalspan.com.au
Mobile number (non-mandatory)	
Fax number (non-mandatory)	
Applicant's reference number(s) (if applicable)	5147/24

## PART 2 – LOCATION DETAILS

<ol> <li>Location of the premises (complete 2.1 and 2.2 if applicable)</li> <li>Note: Provide details below and attach a site plan for any or all premises part of the development application. For further information, see <u>DA</u> Forms Guide: Relevant plans.</li> </ol>				
2.1) Street address and lot on plan				
Street addre	ss AND lot on plan	(all lots must be listed), <b>Or</b>		
Street address AND lot on plan for an adjoining or adjacent property of the premises (appropriate for development in water but adjoining or adjacent to land e.g. jetty, pontoon. All lots must be listed).				
Unit No. Street No. Street Name and Type Suburb				
26 Miallo Bamboo Creek Road Miallo				
to the s				



Postcode	Lot No.	Plan Type and Number (e.g. RP, SP)	Local Government Area(s)	
4873	2	SR153	Douglas Shire Council	
2.2) Additional	premises			
<ul> <li>Additional premises are relevant to this development application and the details of these premises have been attached in a schedule to this development application</li> <li>Not required</li> </ul>				
<ol> <li>Are there any existing easements over the premises?</li> <li>Note: Easement uses vary throughout Queensland and are to be identified correctly and accurately. For further information on easements and how they may affect the proposed development, see the <u>DA Forms Guide</u></li> </ol>				
<ul> <li>Yes – All easement locations, types and dimensions are included in plans submitted with this development application</li> <li>No</li> </ul>				

# PART 3 – FURTHER DETAILS

### 4) Is the application only for building work assessable against the building assessment provisions?

Yes – proceed to 8)

🛛 No

### 5) Identify the assessment manager(s) who will be assessing this development application

Douglas Shire Council

### 6) Has the local government agreed to apply a superseded planning scheme for this development application?

Yes – a copy of the decision notice is attached to this development application
 The local government is taken to have agreed to the superseded planning scheme request – relevant documents attached

No

### 7) Information request under Part 3 of the DA Rules

I agree to receive an information request if determined necessary for this development application

I do not agree to accept an information request for this development application

Note: By not agreeing to accept an information request I, the applicant, acknowledge:

- that this development application will be assessed and decided based on the information provided when making this development application and the assessment manager and any referral agencies relevant to the development application are not obligated under the DA Rules to accept any additional information provided by the applicant for the development application unless agreed to by the relevant parties.
- Part 3 of the DA Rules will still apply if the application is an application listed under section 11.3 of the DA Rules.
- Further advice about information requests is contained in the DA Forms Guide

8) Are there any associated development applications or current approvals?

Yes – provide details below or include details in a schedule to this development application
 ☑ No

List of approval/development application	Reference	Date	Assessment manager
<ul> <li>Approval</li> <li>Development application</li> </ul>			
Approval     Development application			

### 9) Has the portable long service leave levy been paid?

Yes – a copy of the receipted QLeave form is attached to this development application

<ul> <li>No – I, the applicant will provide evidence that the portable long service leave levy has been paid before the assessment manager decides the development application. I acknowledge that the assessment manager may give a development approval only if I provide evidence that the portable long service leave levy has been paid</li> <li>Not applicable (e.g. building and construction work is less than \$150,000 excluding GST)</li> </ul>					
Amount paid	Date paid (dd/mm/yy)     QLeave levy number (A, B or E)				
\$ 0.00					
10) Is this development application in response to a show cause notice or required as a result of an enforcement notice?					
Yes – show cause or enforcement notice is attached					
No					

<ol> <li>Identify any of the following further legislative requirements that apply to any aspect of this development application</li> </ol>				
The proposed development is on a place entered in the Queensland Heritage Register or in a local government's Local Heritage Register. See the guidance provided at <u>www.des.qld.gov.au</u> about the requirements in relation to the development of a Queensland heritage place				
Name of the heritage place: Place ID:				

# PART 4 – REFERRAL DETAILS

12) Does this development application include any building work aspects that have any referral requirements?

Yes - the Referral checklist for building work is attached to this development application

No – proceed to Part 5

### 13) Has any referral agency provided a referral response for this development application?

Yes – referral response(s) received and listed below are attached to this development application
 No

Referral requirement	Referral agency	Date referral response
Identify and describe any changes made to the proposed of referral response and this development application, or incl <i>(if applicable)</i>	development application that was ude details in a schedule to this de	the subject of the evelopment application

# PART 5 – BUILDING WORK DETAILS

14) Owner's details			
Tick if the applicant is also the owner and proceed to 15). Otherwise, provide the following information.			
Name(s) (individual or company full name)			
Contact name (applicable for companies)	Ian O'Donaghue & Kelly Morris		
Postal address (P.O. Box or street address)	26 Miallo Bamboo Creek Road		
Suburb	Miallo		
State	QLD		
Postcode	4873		
Country			
Contact number			
Email address (non-mandatory)	Kelanddri1@bigpond.com		

Mobile number (non-mandatory)		0438 366 978		
Fax number (non-mandatory)				
15) Builder's details				
Tick if a builder has not yet b following information.	een engageo	d to undertake the	e work and proceed to 1	6). Otherwise provide the
Name(s) (individual or company full n	ame)	Totalspan Cairn	IS	
Contact name (applicable for compa	anies)			
QBCC licence or owner – builde	er number	1034551		
Postal address (P.O. Box or street a	address)	PO Box 723		
Suburb		Edge Hill		
State		QLD		
Postcode		4870		
Contact number		07 4054 6122		
Email address (non-mandatory)		cairns@totalspa	an.com.au	
Mobile number (non-mandatory)				
Fax number (non-mandatory)				
16) Provide details about the pro-	oposed buildi	ing work		
What type of approval is being s	sought?			
E Development permit				
Preliminary approval				
b) What is the level of assessme	ent?			
Code assessment				
Impact assessment (requires p	oublic notificatior	n)		
c) Nature of the proposed building work (tick all applicable boxes)				
New building or structure				
Change of building classification (involving building work)				
		Relocation	n or removal	
Construction of swimming po	rrier	Other		
d) Provide a description of the w	vork below or	in an attached so	chedule.	
Shed				
e) Proposed construction materials				
Double Brick Steel Curtain glass				
			Timber	Aluminium
	Brick Vee	ener	Fibre cement	Other
	Stone/co	ncrete		
Frame	Timber		⊠Steel	Aluminium
Floor		e/Stone/Slate		
Roof covering		e/Stone/Slate	∐ Tiles ⊠ Stecl	Fibre cement
f) Existing huilding use/elassification? (it enrice the)				
g) New building use/classification? (if applicable)				

10a

### h) Relevant plans

**Note:** Relevant plans are required to be submitted for all aspects of this development application. For further information, see <u>DA Forms Guide:</u> <u>Relevant plans</u>.

 $\boxtimes$  Relevant plans of the proposed works are attached to the development application

17) What is the monetary value of the proposed building work?

\$68,389.00

### 18) Has Queensland Home Warranty Scheme Insurance been paid?

⊠ Yes – provide details below					
□ No					
Amount paid	Date paid (dd/mm/yy)	Reference number			
\$678.60 29/11/24 14883878					

# PART 6 – CHECKLIST AND APPLICANT DECLARATION

19) Development application checklist	
The relevant parts of Form 2 – Building work details have been completed	🛛 Yes
This development application includes a material change of use, reconfiguring a lot or operational work and is accompanied by a completed <i>Form 1 – Development application details</i>	⊠ Yes ☐ Not applicable
Relevant plans of the development are attached to this development application <b>Note</b> : Relevant plans are required to be submitted for all aspects of this development application. For further information, see <u>DA Forms Guide: Relevant plans.</u>	🛛 Yes
The portable long service leave levy for QLeave has been paid, or will be paid before a development permit is issued (see 9)	☐ Yes ⊠ Not applicable

### 20) Applicant declaration

- By making this development application, I declare that all information in this development application is true and correct
- Where an email address is provided in Part 1 of this form, I consent to receive future electronic communications from the assessment manager and any referral agency for the development application where written information is required or permitted pursuant to sections 11 and 12 of the *Electronic Transactions Act 2001 Note: It is unlawful to intentionally provide false or misleading information.*

**Privacy** – Personal information collected in this form will be used by the assessment manager and/or chosen assessment manager, any referral agency and/or building certifier (including any professional advisers which may be engaged by those entities) while processing, assessing and deciding the development application.

All information relating to this development application may be available for inspection and purchase, and/or published on the assessment manager's and/or referral agency's website.

Personal information will not be disclosed for a purpose unrelated to the *Planning Act 2016*, Planning Regulation 2017 and the DA Rules except where:

- such disclosure is in accordance with the provisions about public access to documents contained in the *Planning Act 2016* and the Planning Regulation 2017, and the access rules made under the *Planning Act 2016* and Planning Regulation 2017; or
- required by other legislation (including the Right to Information Act 2009); or
- otherwise required by law.

This information may be stored in relevant databases. The information collected will be retained as required by the *Public Records Act 2002.* 

# PART 7 – FOR COMPLETION BY THE ASSESSMENT MANAGER – FOR OFFICE USE ONLY

Date received:	Reference numbers:	
For completion by the building certifier		
Classification(s) of approved building we	ork	
10a		
Name	QBCC Certification Licence	QBCC Insurance receipt number
	number	
Scott Wheeler	A15149770	
		14883878

Notification of engagement of alternative assessment manager				
Prescribed assessment manager				
Name of chosen assessment manager				
Date chosen assessment manager engaged				
Contact number of chosen assessment manager				
Relevant licence number(s) of chosen assessment manager				

Additional information required by the local government						
Confirm proposed construction	materials:					
External walls	Double brick Brick veneer Stone/concrete	⊠Steel ⊡Timber ⊡Fibre cement	☐Curtain glass ☐Aluminium ☐Other			
Frame	☐Timber ☐Other	⊠Steel	Aluminium			
Floor	Concrete/Stone/Slate	Timber	Other			
Roof covering	Concrete/Stone/Slate	☐ Tiles ⊠ Steel	<ul> <li>Fibre cement</li> <li>Other</li> </ul>			

QLeave notification and payment Note: For completion by assessment manager if applicable					
Description of the wo	rk	Shed			
QLeave project number					
Amount paid (\$)	0.0000	Date paid (dd/mm/yy)			
Date receipted form s	sighted by assessment manager				
Name of officer who sighted the form		Scott Wheeler			

Additional building details required for the Australian Bureau of Statistics					
Existing buildi use/classificat applicable)	uilding fication? <i>(if</i> Dwelling				
New building use/classificat	ion?	10a			
Site area (m²)5615m2Floor area (m²)			82.34m2		

# **TOTALSPAN BUILDING PLAN**



Owner

Site Add

# **Form 15** Compliance certificate for building design or specification

Queensland Government

This form is the approved form that must be used in accordance with section 10 of the *Building Act 1975* and sections 73 and 77 of the Building Regulation 2021 (Design-specification certificate) stating that an aspect of building work or specification will, if installed or carried out as stated in this form, comply with the building assessment provisions.

Additional explanatory information is included in the Appendix at the end of this form.

1. Property description	Street address (include number, street, suburb/locality and postcode)		
This section need only be completed if details of street address and property description are applicable.	26 Miallo Road, Miallo, 4873State <u>QLD</u> Postcode _4873		
E.g. in the case of (standard/generic) pool design/shell manufacture and/ or patio and carport systems this section may not be applicable.	Lot and plan details <i>(attach list if necessary)</i> Local government area the land is situated in		
Where applicable, the description must identify all land the subject of the application.	Douglas Shire Council		
The lot and plan details (e.g. SP/RP) are shown on title documents or a rates notice.			
If the plan is not registered by title, provide previous lot and plan details.			
<b>2.Description of aspect/s certified</b> Clearly describe the extent of work covered by this certificate, e.g. all structural aspects of the steel roof beams.	Steel Sheds Australia confirm that we have designed the Cold Formed Steel Portal Framed Building as detailed on the attached drawing sheets.		
<b>3.Basis of certification</b> Detail the basis for giving the certificate and the extent to which tests, specifications, rules, standards, codes of practice and other publications were relied upon.	AS/NZS1170.0:2002- Structural Design Actions Part 0– General Principles. AS/NZS1170.1:2002- Structural Design Actions Part 1– Permanent,Imposed & Other Actions. AS/NZS1170.2:2021- Structural Design Actions Part 2– Wind Actions. AS3600:2018- Concrete Structures. AS2870:2011- Residential Slab and Footings. AS4100:2020- Steel Structures. AS/NZS4600:2018- Cold Formed Steel Structures. AS/NZS4505:2012- Garage doors and other large access doors.		

<b>4. Reference documentation</b> Clearly identify any relevant documentation, e.g. numbered structural engineering plans.	SSA9132 - Framing plans: Pages 1 to 20 - 18/12/2024 - Steel Sheds Australia SSA9132 - Cladding & Assembly details: Pages 1 to 16 - 18/12/2024 - Steel Sheds Australia		
5. Building certifier reference number and building development application number	Building certifier reference number		
6.Appointed competent person details Under Part 6 of the Building Regulation 2021 a person must be assessed as a competent for the type of work (design-specification) by the relevant building certifier.	Name (in full) WIRTU L. BAYISSA Company name (if applicable) Steel Sheds Australia Business phone number 07 3827 8000 Email address wirtu.bayissa@steelshedsaustralia.com.au	Contact person WIRTU L. BAYISSA Mobile number	
	Postal address 74 Platinum Street, Crestmead Licence class or registration type <i>(if applicable)</i> STRUCTURAL Licence or registration number <i>(if applicable)</i> RPEQ 16592	QLD Postcode 4132	
<ul> <li><b>7. Signature of appointed competent person</b> </li> <li>This certificate must be signed by the         individual assessed and appointed by         the building certifier as competent to         give design-specification help.     </li> </ul>	Signature	Date 19 December 2024	

### LOCAL GOVERNMENT USE ONLY

Date received	Reference number/s	
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### Appendix - explanatory information

**IMPORTANT NOTE**: it is an offence for a competent person to give a building certifier a document, including this form, that the person knows or reasonably suspects, is false or misleading.

# **Who can complete this certificate?** (section 10 of the *Building Act 1975* (Building Act) and sections 73 and 77 of Building Regulation 2021 (BR 2021))

A building certifier can accept from a competent person (design-specification) a certificate stating that the competent person has assessed the building design or specification for the aspect of building work, and it will, if installed or carried out under the certificate, comply with the building assessment provisions, including any relevant standards and codes.

Schedule 10 of the BR 2021 defines *building design or specification* as any material, system, method of building or other thing related to the design of or specifications for building work.

When completing the certificate, a competent person is required under section 77 of the BR 2021 to include the basis for giving the certificate and state the extent to which the competent person has relied on tests, specifications, rules, standards, codes of practice or other publications.

### What is the purpose of this form? (section 10 of the Building Act and sections 73 and 77 of the BR 2021)

The information in this form informs the building certifier's decision making when they are assessing a building development application, issuing the building development approval for the building work the subject of the certificate (form) and when amending the building development approval due to the receipt of updated aspect information such as glazing or truss specifications or revised excavation drawings.

### Can a manufacturer or supplier give this Form 15?

A building certifier can accept this form from a manufacturer or supplier who the certifier has decided is a competent person (design-specification).

A manufacturer or supplier of building materials can give this form if they have undertaken the design component for the product. For example a window manufacturer who designs, constructs and supplies the windows to industry could give this form.

### Competent person (section 10 of the Building Act 1975 and Part 6 of the BR 2021)

A building certifier must assess and decide to appoint an individual as a competent person before they can accept design-specification help.

When deciding whether a person can be a competent person, the building certifier must assess the person having regard to their experience, qualifications and skills and ensure the person holds a licence or registration if required.

The building certifier is required to keep detailed records about what was considered when appointing a competent person.

For further information about assessment of someone as a competent person refer to the **Guideline for the assessment of competent persons.** 

### What is required if a manufacturer or supplier did not do the design work for the product?

A manufacturer or supplier who is not part of the design process <u>may give</u> the construction contractor, builder, competent person or the building certifier evidence of suitability such as a product technical statement under Part A5 of the Building Code of Australia (BCA), for an aspect or material stating that it is compliant with the relevant reference documents in the BCA i.e. the applicable Australian Standard/s.

### What if there is not enough space for all the supporting material/documents?

Items 2, 3 and 4 requires the competent person to clearly identify the extent of the assessment that was undertaken for aspect/s of work identified in this form.

For instance, there is provision for material such as specifications, standards, codes or other relevant publications to be referenced in the form. However, if the space in the form is not sufficient to accommodate all of this material, you can create and refer to additional material in an addendum or attachment to the form.

The form is also available in a Microsoft Word version, that you can download and edit to include additional material in the relevant parts of the form. Note that editing the form in the Microsoft Word version may cause the relevant boxes to expand and increase the length of the document. This is acceptable and does not change the approved form, provided the section text (description on the left-hand side of the page) is not altered.

### Appointed competent person (design or specification) - (sections 34 and 36 of the BR 2021)

A building certifier must assess and decide to appoint an individual as a competent person before they can, as a competent person, give design-specification help. The building certifier is required to keep detailed records about what was considered when appointing a competent person.

A building certifier must be satisfied that an individual is competent to give the type of help having regard to the individual's experience, qualifications and skills and if required by law to hold a licence or registration, that the individual is appropriately registered or licensed.

An individual is appointed as competent to give design-specification help on or from a particular day.

For further information about assessment of someone as a competent person refer to the Guideline for the assessment of competent persons.

### **PRIVACY NOTICE**

The Department of Energy and Public Works is collecting personal information as required under the *Building Act 1975*. This information may be stored by the Department, and will be used for administration, compliance, statistical research and evaluation of building laws. Your personal information will be disclosed to other government agencies, local government authorities and third parties for purposes relating to administering and monitoring compliance with the *Building Act 1975*. Personal information will otherwise only be disclosed to third parties or required by law.

### FRANCHISEE / RESELLER: Totalspan Cairns

SHED DETAILS					
SHED TYPE	Totalspan Premier				
SPAN	5974 mm				
LENGTH	13784 mm				
EAVE HEIGHT	3000 mm				
ROOF PITCH	10 deg				
BAY COUNT	4				
MAX BAY SIZE	3446				
WIND REGION/SPEED	"REGION C" - 50.67 m/s				
SOLAR PANELS	Yes				
INTERNAL PRESSURE COEFFICIENT	-0.65/+0.7				
BUILDING CLASS	10a				

Page	DRAWING INDEX			
1	COVER PAGE & INDEX			
2	GENERAL NOTES SHEET-1			
3	GENERAL NOTES SHEET-2			
4	SITE WIND REPORT			
5	SLAB PLAN			
6	ELEVATIONS			
7	MEMBER SCHEDULE			
8	FOUNDATION PLAN			
9	FOUNDATION DETAIL SHEET-1			
10	FOUNDATION DETAIL SHEET-2			
11	FOUNDATION DETAIL SHEET-3			
12	ROOF PLAN			
13	ELEVATION WALL 1			
14	ELEVATION WALL 2			
15	ELEVATION WALL 3			
16	ELEVATION WALL 4			
17	GARAPORT FRAME ELEVATION WALL 4			
18	MID PORTAL FRAME ELEVATION			
19	CONNECTION DETAIL-1			
20	CONNECTION DETAIL-2			
21	CLADDING AND ASSEMBLY DETAILS			

Wirtu L. Bayissa Registered Professional Engineer B.Sc.(Civil), M.Tech (Building/Structures), PhD (Structures) MIEAust, CPEng, CMEngNZ, NER, APEC, IntPE(Aust),



 Signed
 19/12/2024

 RPEQ (16592), PE (Vic) (PE0002085), RC (NSW) (BDC3146), BSP (TAS) (702601568); BP (NT) (332299ES)

# ENGINEERED BY:





 Image: Second second

Note: \* Indicates signature on original issue of drawings or last revision of drawing(These drawings are valid only when endorsed by a separate design certificate that is valid for the date of issue and construction.)



З

Elevations

у	Job No.	SSA9132
	Drawing No.	SSA-DW-01
	Date: 18/12/2024	Approved: Wirtu L. Bayissa
	Scale: N.T.S	Sheet : 1 of 20

### GENERAL

G1. READ THESE NOTES IN CONJUNCTION WITH ARCHITECTURAL AND OTHER ENGINEERING DRAWINGS AND SPECIFICATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR SETTING OUT AND DETAIL DIMENSIONS. IN CASE OF DISCREPANCY PRECEDENCE IS GIVEN TO DRAWINGS, THEN NOTES, THEN SPECIFICATION

G2. CARRY OUT WORK IN A SAFE MANNER IN ACCORDANCE WITH APPLICABLE LEGISLATION, STATUTORY REGULATIONS, BY-LAWS OR RULES. CONTRACTOR IS **RESPONSIBLE FOR OCCUPATIONAL HEALTH AND SAFETY OF SITE PERSONNEL AND** GENERAL PUBLIC IN ACCORDANCE WITH ALL CURRENT WORK HEALTH AND SAFETY ACTS, LEGISLATIVE REQUIREMENTS, ASSOCIATED REGULATIONS AND CODES OF PRACTICE, INDUSTRIAL AGREEMENTS AND ACCEPTED INDUSTRY PRACTICE.

G3. ALL DIMENSIONS TO BE CHECKED BY THE CONTRACTOR BEFORE COMMENCING WORK.

G4. OBTAIN NECESSARY PERMITS AND APPROVALS FROM RELEVANT AUTHORITIES BEFORE COMMENCING WORK ON SITE. NOTIFY RELEVANT SERVICE AUTHORITIES BEFORE COMMENCING WORK ON SITE.

G5. THE METHOD OF CONSTRUCTION AND THE MAINTENANCE OF SAFETY DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR. IF ANY STRUCTURAL ELEMENT PRESENTS DIFFICULTY IN RESPECT OF CONSTRUCTABILITY OF SAFFTY THE MATTER MUST BE REFERRED TO THE SUPERINTENDENT FOR RESOLUTION PRIOR TO COMMENCEMENT OF THE WORK.

G6. ALL MATERIALS AND WORKMANSHIP MUST BE IN ACCORDANCE WITH THE RELEVANT CURRENT STANDARDS AUSTRALIA CODES. THE BUILDING CODE OF AUSTRALIA AND THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES. EXCEPT WHEN VARIED BY THE CONTRACT DOCUMENTS.

G7. VERIFY ON SITE SETTING OUT DIMENSIONS AND DIMENSIONS AND EXISTING MEMBER SIZES SHOWN ON DRAWINGS BEFORE SHOP DRAWINGS, CONSTRUCTION AND FABRICATION IS COMMENCED. EXISTING STRUCTURES, IF ANY, SHOWN ON DRAWINGS ARE IN APPROXIMATE LOCATIONS ONLY.

G8. CHECK STRUCTURAL DRAWINGS AGAINST ARCHITECTURAL, AND OTHER DRAWINGS FOR REQUIREMENTS FOR SET DOWNS, PENETRATIONS, CONDUITS, DUCTS, PIPES, ETC.

G9. WORKMANSHIP AND MATERIALS TO COMPLY WITH REQUIREMENTS OF AUSTRALIAN STANDARDS, NATIONAL CONSTRUCTION CODE (NCC) AND BY-LAWS AND ORDINANCES OF RELEVANT BUILDING AUTHORITIES. ALL STANDARDS REFERRED TO ARE THOSE CURRENT (AS AMENDED) AT COMMENCEMENT OF CONTRACT

G10. PROTECT EXISTING STRUCTURES FROM DAMAGE OR CRACKING. MAKE GOOD ANY DAMAGE TO EXISTING ELEMENTS AT COMPLETION OF WORKS.

G11. WHERE NEW WORK ABUTS EXISTING, PROVIDE SMOOTH TRANSITION FREE OF ABRUPT CHANGES.

G12. NO HOLES OR CHASES OTHER THAN THOSE ON THE STRUCTURAL DRAWINGS MUST BE MADE IN ANY STRUCTURAL MEMBER, WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER

G13. THESE NOTES MUST ALSO APPLY TO ALL MATERIALS AND PROPRIETARY PRODUCTS USED IN CONSTRUCTIONS OF THE WORK.

G14. THESE DRAWINGS DO NOT DETAIL TEMPORARY WORKS. CONSTRUCTION METHODS AND TEMPORARY WORKS ARE RESPONSIBILITY OF THE CONTRACTOR. G15. PROVIDE SCAFFOLDING, BARRIERS, FALL RESTRAINT, HAND-MID RAILS AND TOE BOARDS FOR WORK AT HEIGHT. ERECT ACCESS STAIRS AT EARLIEST OPPORTUNITY TO REDUCE OPEN SHAFT HAZARDS AND FACILITATE ACCESS.

MAINTAIN SAFETY MESH AND BARRIERS TO ALL OPENINGS AND ELEVATED EDGES G16. MAINTAIN STRUCTURE IN A STABLE CONDITION DURING CONSTRUCTION AND PROVIDE TEMPORARY BRACING AND/OR SUPPORT AS REQUIRED. ENSURE

#### NO PART IS OVERSTRESSED. DO NOT PLACE OR STORE BUILDING MATERIALS ON, SUPPORT FORMWORK OR PROP FROM STRUCTURAL MEMBERS. G17. ENSURE ISOLATION SAFE SYSTEMS OF WORK OR PROTECTIVE MEASURES ARE

INSTALLED BEFORE WORKING NEAR LIVE ELECTRICAL INFRASTRUCTURE. PROVIDE PROTECTION OF ELECTRICAL OVERHEAD WIRING SYSTEMS DURING CONSTRUCTION.

G18. PROVIDE BUCKLING STABILITY TO LONG SPAN BEAMS, TRUSSES etc DURING ERECTION. IF UNSURE, CHECK WITH SUITABLY QUALIFIED STRUCTURAL ENGINEER PRIOR TO LIFTING AND INSTALLATION.

### DESIGN ASSUMPTIONS

D1. THE STRUCTURAL WORK SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED FOR THE FOLLOWING LOADS:

AS/NZS 1170.1

Wirtu L. Bayissa **Registered Professional Engineer** B.Sc.(Civil), M.Tech (Building/Structures), PhD (Structures) MIEAust, CPEng, CMEngNZ, NER, APEC, IntPE(Aust),



RPEO (16592), PE (Vic) (PE0002085), RC (NSW) (BDC3146), BSP (TAS) (702601568); BP (NT) (332299ES)

## WIND LOAD

WIND LOAD CALCULATED IN ACCORDANCE WITH AS/NZS 1170.2. -REFER WIND REPORT ALONG WITH THIS DOCUMENT FOR DETAILS.

### GEOTECHNICAL

GE1. SERVICE OF AN EXPERIENCED GEOTECHNICAL ENGINEER SHOULD BE ENGAGED TO ADVICE ON SUITABILITY OF SOIL CONDITIONS AT CLIENTS EXPENSE. GE2. SOIL TEST CLASSIFICATION TO AS 2870 WILL NEED TO BE COMPLETED BEFORE

COMMENCING WORK GE3. THE RECOMMENDED SAFE BEARING CAPACITY AT THE BASE OF THE SLAB &

FOOTING MUST BE CONFIRMED BY THE AN EXPERIENCED GEOTECHNICAL FNGINFFR

### FOOTING

F1. ALL WORKMANSHIP AND MATERIALS MUST BE IN ACCORDANCE WITH AS2870 & AS3600

F2. INTERNAL FOOTINGS MUST BE LOCATED CENTRALLY UNDER WALLS AND COLUMNS U.N.O. ON THE STRUCTURAL DRAWINGS.

F3. STRIP TOPSOIL TO SUIT THE RELATIVE LEVELS SHOWN ON THE DRAWINGS. THE EXPOSED AREA MUST BE PROOF ROLLED WITH A MINIMUM 10 TONNE STATIC ROLLER TO ENSURE THAT NO LOCAL SOFT SPOTS EXIST AND UPPER LAYER IS COMPACTED

F4. ALL FOOTINGS MUST BE FOUNDED A MINIMUM OF 200mm INTO NATURAL GROUND

F5. THE BASE OF ALL FOOTING EXCAVATIONS MUST BE COMPACTED TO A RELATIVE DRY DENSITY AS DETERMINED IN ACCORDANCE WITH AS 1289, AND MUST BE FINISHED CLEAN AND HORIZONTAL PRIOR TO POURING CONCRETE

F6. FOOTINGS MUST BE CONSTRUCTED AND BACKFILLED AS SOON AS POSSIBLE FOLLOWING EXCAVATION TO AVOID EITHER SOFTENING OF THE FOUNDING MATERIAL OR DRYING OUT BY EXPOSURE.

F7. EXCAVATE FOR FOOTINGS TO THE NOMINATED SIZE AND DEPTH. FOOTING FOUNDING LEVELS ARE PROVISIONAL SUBJECT TO ACTUAL SITE CONDITIONS AND APPROVAL BY THE GEOTECHNICAL ENGINEER

F8. BORED PIERS MUST BE CONSTRUCTED IN ACCORDANCE WITH AS2159 PILING DESIGN AND INSTALLATION EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

F9. PIER HOLES BASES MUST HAVE ALL LOOSE AND DISTURBED MATERIAL REMOVED PRIOR TO PLACING CONCRETE.

F10. BORED PIER FOOTINGS MUST BE TEMPORARILY SHEATHED DURING BORING AND CASTING CONCRETE IF NECESSARY TO MAINTAIN THE SIDES THAT ARE UNSTABLE AND COLLAPSING. SHEATHING MUST BE REMOVED GRADUALLY AS CASTING PROGRESSES.

F11. PIER HOLES MUST BE KEPT FREE OF WATER.

F12. CONCRETE MUST BE COMPACTED BY AN IMMERSION VIBRATOR.

F13. SHOULD ACTUAL CONDITIONS BE FOUND TO DIFFER FROM THOSE NOTED, THE MATTER SHOULD BE REFERRED TO THE SUPERINTENDENT FOR POSSIBLE FOOTING REDESIGN BY THE ENGINEER.

F14. NON-COHESIVE SOILS SUCH AS SANDS, LOOSE SILTS AND FILLED SITES SHALL BE TREATED AS 'PROBLEM SITES' SHALL NOT BE COVERED BY THIS DESIGN. F15. FOUNDATION MATERIALS MUST HAVE A MINIMUM BEARING CAPACITY OF 100kPa

F16. THE PIER DESIGNS ARE APPROPRIATE TO SOIL CONDITIONS AS FOLLOWS"

MINIMUM BEARING CAPACITY AT FOUNDATION LEVEL BOERD PIER = 250 kPa, MINIMUM SKIN FRICTION(Cu) = 25 kPa.

### SLAB ON GROUND

S1. SLAB & FOOTING DESIGNS SHOWN HEREIN, ARE APPROPRIATE ONLY TO THE FOLLOWING SOIL CLASSIFICATIONS AS PER AS2870.

CLASS "A"- MOST SAND AND ROCK SITES WITH LITTLE OR NO GROUND MOVEMENT FROM MOISTURE CHANGES. -CLASS "S"- SLIGHTLY REACTIVE CLAY SITES

-CLASS "M"- MODERATELY REACTIVE CLAY SITES

S2. ALL BASE AND FILL MATERIALS SHOWING UNDER SLABS ON DRAWINGS SHALL BE COMPACTED TO NOT LESS THAN 98% MODIFIED DENSITY RATIO IN ACCORDANCE WITH AS1289 5.1.1 AND 4.5.1.

S3. MIN CBR 10 HAVE BEEN ADOPTED FOR THIS SLAB DESIGN IN ACCORDANCE WITH CEMENT & CONCRETE ASSOCIATION, CONCRETE INDUSTRIAL FLOOR & PAVEMENT DESIGN GUIDELINES.SUB- GRADE SHOULD BE INSPECTED APPROVED BY A GEOTHENICAL ENGINEER ON SITE.

S4. THIS DESIGN IS ALSO SUITABLE FOR LEVEL 1" CONTROLLED FILL"- FILL THAT IS IN ACCORDANCE WITH TECHNICAL AND CONTROL REQUIREMENTS SPECIFIED IN AS3798 FOR STRUCTURAL FILL FOR RESIDENTIAL APPLICATIONS.ALL FILLS SHALL BE CONDUCTED UNDER THE SUPERVISION OF GEOTHENICAL ENGINEER WHO SHALL SUPPLY CERTIFICATE OF COMPACTION FOR THE SITE.

S5. CONTROLLED FILL IS MATERIAL THAT HAS BEEN PLACED AND COMPACTED IN

LAYERS BY COMPACTION EQUIPMENT WITHIN A DEFINED MOISTURE RANGE TO A DEFINED DENSITY REQUIREMENTS EXCEPT AS PROVIDED BELOW, CONTROLLED FILL SHALL BE PLACED IN ACCORDANCE WITH AS 3798.SAND FILL UP TO 0.8M DEEP, WELL COMPACTED IN NOT MORE THAN 0.3M THICK LAYERS BY A VIBRATING PLATE OR VIBRATING ROLLER SHALL BE DEEMED TO COMPLY WITH THIS REQUIREMENTS. A SATISFACTORY TEST FOR SAND FILL NOT CONTAINING GRAVEL SIZED MATERIAL IS THE ACHIEVEMENT OF A BLOW COUNT OF 7 OR MORE PER 0.3M USING PENETROMETER TEST DESCRIBED IN AS1289.6.3.3. NON - SAND FILL UP TO 0.4M DEEP. WELL COMPACTED IN NOT MORE THAN 0.15M LAYERS BY A MECHANICAL ROLLER SHALL BE DEEMED TO COMPLY WITH THIS REQUIREMENT.CLAY FILL SHALL BE MOIST DURING COMPACTION.

S6. CLEAR AREA UNDER SLAB OF ALL TOPSOIL CONTAINING HUMUS AND VEGETABLE MATTER 100mm MIN.

S7. A 50mm MIN BASE COURSE OF PACKING SAND SHALL BE SPREAD OVER THE SUB-BASE AND TO BE THOROUGHLY ROLLED AND COMPACTED TO A SMOOTH LEVEL SURFACE.THE SAND SHALL BE MOISTENED PRIOR TO THE PLACEMENT OF A 0.2mm POLYETHYLENE FILM DAMP PROOF MEMBRANE IN 3600mm MIN. WIDE SHEETS LAPPED 150mm AND JOINED WITH 75mm WIDE PRESSURE SENSITIVE TAPE.THE TAPE SHALL BE LAID UNDER ALL SLABS AND WALLS IN CONTACT WITH THE GROUND.THE TOTAL FILL BENEATH THE SLAB PANELS MUST NOT EXCEED 600mm, IE.THE SUM OF EXISTING FILL PLUS ANY NEW FILLING PLACED TOGETHER MUST NOT EXCEED 600mm MAX.

### SITE DRAINAGE REQUIREMENTS

1.THE SITE SHOULD BE GRADED OR DRAINED TO AVOID WATER PONDING AGAINST OR NEAR THE BUILDING.THE GROUND IMMEDIATELY ADJACENT TO THE BUILDING/PERIMETER FOOTING SHALL BE GRADED TO A UNIFORM FALL OF 50mm MINIMUM AWAY FROM THE BUILDING OVER THE FIRST METER AND SHAPED TO PREVENT PONDING OF WATER.

2.THE SITE DRAINAGE RECOMMENDATION SHOULD BE MAINTAINED FOR THE ECNOMIC LIFE OF THE BUILDING. THE HOMEOWNER IS ADVISED TO FOLLOW CSIRO RECOMMENDATIONS.CONTAINED IN CSIRO PAMPHLET BTF 18," FOUNDATION MAINTENANCE AND FOOTING PERFORMANCE: A HOMEOWNER'S GUIDE".

#### ABNORMAL SITE CONDITIONS

FOOTING AND SLAB DESIGNS SHOWN HEREIN, DO NOT COVER THE FOLLOWING SITE CONDITIONS:

1. RECENT REMOVAL OF AN EXISTING BUILDING LIKELY TO HAVE SIGNIFICANTLY MODIFIED THE SOIL MOISTURE CONDITIONS UNDER THE PROPOSED PLAN OF THE BUILDING

2 UNUSUAL MOISTURE CONDITIONS CAUSED BY DRAINS, CHANNELS, PONDS DAMS OR TANKS

3. RECENT REMOVAL OF LARGE TREES PRIOR TO CONSTRUCTION. 4 GROWTH OF TREES TO CLOSE TO A FOOTING.

### FOOTING: ANGLE OF REPOSE

A1. FOOTING MUST NOT UNDERMINE EXISTING FOOTING OF BE UNDERMINED BY PROPOSED EXCAVATION.

A2. ENSURE ADEQUATE ANGLE OF REPOSE AT ALL TIMES (REFER DETAILS BELOW)

A3. NOTIFY THIS OFFICE IF FOOTING UNDERMINE OCCURS.

A4. PIPE DEPTH & LOCATION MUST BE CONFIRMED PRIOR TO CONSTRUCTION.



A5. NOTIFY THE OFFICE IF PIPES ARE LOCATED BELOW THE SHED SLAB.

CONCRETE

### CONCRETE MIX

C1. WORKMANSHIP AND MATERIALS TO COMPLY WITH AS3600, AS2870, AS3610, AS1379, AS1478, AS3582, AS3799, AS2758.1, AND AS3972. FOR LIQUID RETAINING STRUCTURES ALSO COMPLY WITH AS3735.

C2. WET CONCRETE TO BE UNIFORM, HOMOGENEOUS, COHESIVE AND ABLE TO WORK READILY INTO CORNERS AND AROUND REINFORCEMENT COMPLETELY FILLING FORMWORK WITHOUT SEGREGATION, EXCESS FREE WATER ON SURFACE, LOSS OF MATERIAL OR CONTAMINATION.

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Image: New Sector Constraints     Image: New Sector Constraints     Apply: Not Review Street, Crestmend QLD 4132.     Tor 3827 8000     Tor 3827 8000     Tor 3803 2320       Rev.     Remark/Comment     Date:     Apply: Not Review Street, Crestmend QLD 4132.     Tor 3803 2320     For 3803 2320     Tor 3803 2320						<u>STEEL SHEDS</u>	Proje	ct: 26 Miallo Road, Miallo, 4873
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BUNDING P14. PROVIDE EXPOSED EDGES AND RE-ENTRANT CORNERS WITH 45 DEGREES x 25 mm CHAMFERS OR FILLETS UNO. P15. DO NOT MAKE HOLES, PENETRATIONS, RECESSES, CHASES, NOR EMBED PIPES (OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS) WITHOUT APPROVAL OF SUPERINTENDENT P16.DO NOT CUT REINFORCEMENT AT PENETRATIONS WITHOUT APPROVAL.

C3. CONCRETE TO HAVE GOOD DIMENSIONAL STABILITY AND ABLE TO RESIST PLASTIC SETTLEMENT CRACKING, THERMAL CRACKING AND SHRINKAGE CRACKING. C4. FINISHED CONCRETE TO BE A DURABLE. DENSE. HOMOGENEOUS MASS COMPLETELY FILLING FORMWORK EMBEDDING REINFORCEMENT AND TENDONS AND FREE OF STONE POCKETS OR HONEYCOMBS. OF UNIFORM COLOR AND TEXTURE. WITH LOW PERMEABILITY AND ADEQUATE BUT NOT EXCESSIVE STRENGTH FOR GRADE, AIR ENTRAINMENT IS NOT PERMITTED.

C5. RHEOLOGY, WORKABILITY AND SLUMP TO BE AS REQUIRED FOR PLACEMENT (eg PUMPING, CHUTE etc), COMPACTION AND FINISHING

C6. MAXIMUM SUIPHATE CONTENT OF CONCRETE TO BE LESS THAN 5% BY MASS OF ACID SOLUBLE SO3 AS A PERCENTAGE OF CEMENTITIOUS MATERIAL

C7 ADMIXTURES TO COMPLY WITH AS1478 ADMIXTURES MUST NOT REDUCE STRENGTH OF CONCRETE BELOW SPECIFIED VALUE. ADMIXTURES MUST NOT CONTAIN CALCIUM CHLORIDE USE ADMIXTURES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

C8. DO NOT ADD WATER TO CONCRETE AFTER TRUCK HAS LEFT BATCHING PLANT. MIX CONCRETE TO ENSURE UNIFORM DISTRIBUTION OF CONSTITUENTS.

### PLACING OF CONCRETE

P1. CONSTRUCTION TOLERANCES TO BE TO AS3610.

P2. REMOVE FREE WATER, DUST AND DEBRIS, STAINS etc FROM FORMS, EXCAVATIONS etc BEFORE PLACING CONCRETE.IN HOT CONDITIONS DAMPEN FORMWORK AND/OR SUB-GRADE BEFORE PLACING CONCRETE.

P3. INSTALL 0.2 mm HIGH IMPACT RESISTANT VIRGIN POLYETHYLENE FILM DAMP PROOF MEMBRANE TO AS2870 TO BASE TO RETAIN WATER IN FRESH CONCRETE.

P4. PLACE CONCRETE IN LAYERS LESS THAN 300 mm THICK FOR FIRST LAYER AND 75% OF IMMERSION VIBRATOR LENGTH FOR SUBSEQUENT LAYERS AND VIBRATE EACH LAYER BEFORE PLACING NEXT.

P5. PROTECT FRESH CONCRETE FROM PREMATURE DRYING - PARTICULARLY IN HOT, WINDY OR DRY (LOW HUMIDITY) CONDITIONS, EXCESSIVELY HOT OR COLD TEMPERATURES, RAIN, etc. PROVIDE WIND BREAKS. MAINTAIN CONCRETE AT A REASONABLY CONSTANT TEMPERATURE WITH MINIMUM MOISTURE LOSS FOR CURING PERIOD.

P6. FOR CONCRETE WITH WATER: CEMENT RATIO LESS THAN 0.5, IN HOT, WINDY OR DRY (LOW HUMIDITY) CONDITIONS SPRAY EXPOSED SURFACES OF FRESH CONCRETE WITH FOG SPRAY APPLICATION OF ALIPHATIC ALCOHOL RETARDANT IMMEDIATELY AFTER PLACEMENT TO REDUCE RISK OF PLASTIC SHRINKAGE CRACKING. IN SEVERE CLIMATIC CONDITIONS CONSIDER REVIBRATING CONCRETE BEFORE IT REACHES INITIAL SET.

P7. COMMENCE CURING OF CONCRETE TO AS3600 AS SOON AS POSSIBLE AFTER PLACING AND FINISHING OR STRIPPING, AND WITHIN ONE HOUR. ENSURE EXPOSED SURFACES ARE NOT STAINED.

P8. DO NOT USE WAX-BASED OR CHLORINATED RUBBER-BASED CURING COMPOUNDS ON SURFACES FORMING SUBSTRATES TO APPLIED FINISHES. CONCRETE TOPPINGS AND CEMENT BASED RENDER.

P9. PREVENT RAPID DRYING OUT AT END OF CURING PERIOD.

P10. FINISH CONCRETE SURFACES TO AS3610 AND AS SHOWN BELOW:

FORMED SURFACES:

EXPOSED SURFACES 1C, 2C, 3C OR 4

**HIDDEN SURFACES 5** FINISHES AS LAID:

EXPOSED SURFACES STEEL TROWEL UNO

HIDDEN SURFACES WOOD FLOAT

P11. STEEL TROWEL FINISH: AFTER MACHINE FLOATING. USE POWER TROWELS TO PRODUCE SMOOTH SURFACES FREE OF DEFECTS. WHEN SURFACE HAS HARDENED SUFFICIENTLY, USE STEEL HAND TROWELS TO PRODUCE FINAL CONSOLIDATED FINISH FREE OF TROWEL MARKS, OFUNIFORM IN TEXTURE AND APPEARANCE, MAXIMUM DEVIATION FROM 3 m STRAIGHT EDGE IS LESS THAN 3 mm.

P12. INSTALL BRITTLE FINISHES (eg TILES etc), JOINT FILLERS AND SEALANTS A MINIMUM OF 3 MONTHS AFTER CASTING CONCRETE. USE A FLEXIBLE TILE GROUT AND WEAK TILE MORTAR.

P13. BEAM SIZES ARE DESIGNATED DEPTH (INCLUDING SLAB. IF ANY) x WIDTH. PLACE CONCRETE IN SLABS AT SAME TIME AS BEAMS INTEGRAL WITH THEM. SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES OR

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	Drawing No.	SSA-DW-02
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### REINFORCEMENT

R1. SYMBOLS ON DRAWINGS FOR GRADE AND TYPE OF REINFORCEMENT ARE AS FOLLOWS

R: STRUCTURAL GRADE 250 PLAIN ROUND BAR TO AS/NZS4671

- N: HOT ROLLED GRADE 500 DEFORMED (RIBBED) BAR DUCTILITY CLASS N TO AS/NZS4671
- L: HOT ROLLED GRADE 500 DEFORMED BAR DUCTILITY CLASS L TO AS/NZS4671
- SL: HARD DRAWN WIRE GRADE 500 SQUARE MESH DUCTILITY CLASS L TO AS/NZS4671
- RL: HARD DRAWN WIRE GRADE 500 RECTANGULAR MESH DUCTILITY CLASS L TO AS/NZS4671
- TM: HARD DRAWN STEEL GRADE 500 TRENCH MESH DUCTULTY CLASS L TO AS/NZS4671

W: GRADE 500 STEEL REINFORCING WIRE TO AS/NZS4671

R2. MANUFACTURERS AND PROCESSORS OF STEEL REINFORCING MATERIALS MUST HOLD A VALID CERTIFICATE OF APPROVAL ISSUED BY ACRS (AUSTRALASIAN CERTIFICATION AUTHORITY FOR REINFORCING AND STRUCTURAL STEELS). R3. DO NOT USE LOW DUCTILITY REINFORCEMENT (GRADE L) UNO.

R4. USE MESH SUPPLIED IN FLAT SHEETS UNLESS APPROVED OTHERWISE.

R5. REINFORCEMENT TO BE CLEAN, FREE OF LOOSE MILL SCALE, RUST, OIL, GREASE, MUD OR OTHER MATERIAL THAT MIGHT REDUCE BOND BETWEEN REINFORCEMENT AND CONCRETE

R6. TO MINIMIZE TRIP HAZARDS, CONSIDER MAXIMUM REINFORCEMENT BAR SPACING FOR TRAFFICABLE AREAS PRIOR TO CASTING CONCRETE OF 200 mm. ALTERNATIVELY PROVIDE SL82 ADDITIONAL IF MAIN REINFORCEMENT SPACING IS GREATER THAN 200 mm.

R7. COG HALF OF SLAB BOTTOM REINFORCEMENT AT EDGES TO ACHIEVE ANCHORAGE.

R8. PROVIDE ONE CONTINUOUS BAR PARALLEL TO (WITHIN 75 mm OF) CONCRETE EDGES, INCLUDING CONSTRUCTION JOINTS UNO

R9. PROVIDE N12 DIAGONAL TRIMMER BARS BY 1000 mm LONG AT EACH LAYER OF REINFORCEMENT AT RE-ENTRANT CORNERS, OPENINGS, SERVICE PENETRATIONS etc UNO.

R10. PROVIDE N12-300 DISTRIBUTION BARS LAPPED 500 WHERE NONE SHOWN ON DRAWINGS

R11. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND IS NOT NECESSARILY IN TRUE PROJECTION. SET REINFORCEMENT OUT AT EQUAL CENTRES IF SPACING IS NOT NOMINATED.

R12. CAP STARTER BARS AND OTHER REINFORCEMENT TO REDUCE RISK OF IMPALEMENT AND LACERATIONS.

R13. SECURELY TIE REINFORCEMENT WITH WIRE TIES. TURN ENDS OF TIE WIRES INTO CONCRETE, CLEAR OF COVER ZONE.

R14. SUPPORT REINFORCEMENT ON PROPRIETARY CONCRETE, METAL OR PLASTIC SUPPORTS ADEQUATE TO WITHSTAND CONSTRUCTION AND TRAFFIC LOADS AND MAINTAIN DURABILITY OF FINISHED CONCRETE STRUCTURE. FOR CONCRETE SURFACES WITH B2 EXPOSURE CLASSIFICATION OR GREATER, ONLY USE PROPRIETARY HIGH STRENGTH FIBRE REINFORCED CEMENT SPACER BLOCKS OR SLIPPORTS

R15. PROVIDE MINIMUM MESH LAPS TO CROSS WIRES OF REINFORCING MESH, SO TWO OUTERMOST WIRES OF ONE SHEET OVERLAP TWO OUTERMOST WIRES OF ADJACENT SHEET BY AT LEAST 25 mm, THUS:

MESH TYPE	END LAP	SIDE LAP
RECTANGULAR MESHES	225	125
SQUARE MESHES SL102 TO SL42	225	125
SL81	125	125
TRENCH MESH	500	N/A

USE LAP LENGTHS BASED ON LARGEST WIRE SPACING. DO NOT LAP MORE THAN THREE SHEETS AT ANY ONE POINT. LAPPED SPLICE LENGTHS TO COMPLY WITH AS3600.

R16. ALTERNATIVELY USE N12 SPLICE BARS TO LAP ADJACENT SHEETS OF MESH, SPACING OF SPLICE BARS TO MATCH SPACING OF BARS IN MESH, SPLICE BARS TO OVERLAP MESH BY 750 mm MINIMUM UNO.

R17. SPLICE TRENCH MESH BY A LAP OF 750 mm MINIMUM UNO. AT T- AND L-INTERSECTIONS, CONTINUE TRENCH MESH FULL WIDTH OF INTERSECTION, AT L-INTERSECTIONS PROVIDE AN N12 L BAR TO LAP 750 mm WITH OUTSIDE BARS UNO

R18. DO NOT BEND OR STRAIN REINFORCEMENT IN A WAY THAT MAY CAUSE DAMAGE, BEND DIAMETERS TO BE TO AS3600, BARS TO BE BENT COLD LINO. GRADE 250 BARS MAY BE BENT AT TEMPERATURES UP TO 850°C. DO NOT COOL HEATED BARS BY QUENCHING.

R19. DO NOT CUT, BEND NOR HEAT REINFORCEMENT ON SITE.WELDING OF REINFORCEMENT IS NOT PERMITTED U.N.O.

REINFORCEMENT COVER

R20. COVER IS CLEAR DISTANCE BETWEEN ANY REINFORCEMENT (INCLUDING LIGATURES. TIE WIRE etc) AND OUTSIDE SURFACE OF STRUCTURAL CONCRETE. R21. COVER MUST NOT BE LESS THAN SPECIFIED. PROVIDE MINIMUM CLEAR COVER TO REINFORCEMENT AS SHOWN BELOW, EXCEPT WHERE SPECIFIED

LOCATION	COVER(mm)
FOOTINGS, UNDERSIDE SLABS ON GROUND, etc CAST AGAINST FORMWORK OR BUILDING	50
BEAMS,SLABS -EXTERIOR	50
BEAMS,SLABS -INTERIOR	40
TOP OF SLAB - INTERIOR	25
NO FORMWORK	65

R22. PROVIDE 50 mm BLINDING CONCRETE UNDER STRUCTURAL REINFORCED CONCRETE CAST ON GROUND UNO.

JOINTS

J1. FORM CONSTRUCTION JOINTS AND USE ONLY WERE SHOWN OR WERE APPROVED BY SUPERINTENDENT. CONSTRUCTION JOINTS IN SLABS TO BE VERTICAL, STRAIGHT AND TRUE.

J2. PROVIDE JOINTING MATERIALS COMPATIBLE WHEN USED TOGETHER, AND NON-STAINING TO CONCRETE IN VISIBLE LOCATIONS.

J3. SAW CUT CRACK CONTROL JOINTS AS SOON AFTER CASTING AS PRACTICABLE TO AVOID SPALLING OR RAVELLING OF JOINT EDGES, AND WITHIN 16 HOURS OF CASTING TO PREVENT THERMAL AND/OR SHRINKAGE CRACKING OF SLAB

J4. IMMEDIATELY AFTER SAW CUTTING FLUSH OUT JOINTS TO REMOVE SAWING RESIDUE AND INSERT A TEMPORARY FOAMED PLASTIC BEAD TO KEEP JOINT CLEAN PRIOR TO FILLING OR SEALING. PROTECT SAW CUTS FROM WHEEL LOADS FOR AT LEAST ONE WEEK AFTER CUTTING.

J5. DO NOT INSTALL SEALANTS IF EXPECTED MAXIMUM DAILY TEMPERATURE EXCEEDS 30 DEGREES C. ENSURE RECESSES ARE CLEAN AND DRY PRIOR TO INSTALLING FILLERS OR SEALANTS AND PREPARE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. TOLERANCE ON SEALANT WIDTHS +5, -0

### STEEL

SS1. ALL STEELWORK WORKMANSHIP. MATERIALS. FABRICATION & INSTALLATION SHALL BE IN ACCORDANCE WITH AS4100 STEEL STRUCTURES CODE. AS1554. AS1163, AS3679 AND AS4600 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

SS2. PROVIDE STEEL IN ACCORDANCE WITH:

- AS1163 GRADE C350 OR C450 FOR RECTANGULAR AND SOUARE HOLLOW SECTIONS
- AS1163 GRADE C250 OR C350 FOR CIRCULAR HOLLOW SECTIONS, AS NOTED ON DRAWINGS
- AS1397 GRADE G450 FOR PURLINS AND GIRTS.
- AS1443 COLD-FINISHED BARS.
- AS/NZS1594 GRADE 250 HOT-ROLLED STEEL FLAT PRODUCTS.
- AS/NZS3678 FOR PLATES AND FLOOR PLATE.
- AS/NZS3679 PART 2, GRADE 200 FOR WELDED BEAMS AND WELDED COLUMNS.
- AS/NZS3679 PART 1 GRADE 300 OR BHP GRADE 300 PLUS UNIVERSAL BEAMS, UNIVERSAL COLUMNS, PARALLEL FLANGE CHANNELS, ANGLES, FLATS, BARS AND RODS.
- OTHERWISE, TO COMPLY WITH AS/NZS3678 OR AS/NZS3679 GRADE 250 UNO.

SS3. MANUFACTURES AND PROCESSORS OF STRUCTURAL STEEL MUST HOLD A VALID CERTIFICATE OF APPROVAL ISSUED BY ACRS (AUSTRALASIAN CERTIFICATION AUTHORITY FOR REINFORCING AND STRUCTURAL STEELS). PROVIDE ACRS CERTIFICATION OF COMPLIANCE WITH RELEVANT STANDARDS. PRODUCT TAGS AND SUPPORTING DOCUMENTATION FOR ALL STRUCTURAL STEEL WORK.

SS4. PROVIDE 3 MM CAP PLATES SEAL WELDED TO HOLLOW SECTION UNO. SS5. CARRY OUT ERECTION OF STEELWORK IN ACCORDANCE WITH AS3828

GUIDELINES FOR THE ERECTION OF BUILDING STEELWORK

SS6. PROTECT STEELWORK FROM DAMAGE DURING HANDLING, TRANSPORT, STORAGE AND ERECTION. SUBMIT PROPOSED METHOD TO PREPARE DAMAGE FOR APPROVAL. PROTECT STEELWORK STORED ON SITE FROM CORROSION OR DETERIORATION OF COATINGS.

SS7. PLUMB COLUMNS WITH METAL PACKERS OR SHIMS.

SS8. SEQUENCE ERECTION WORKS TO AVOID PINCH POINTS AND SITE CONGESTION SS9. INSTALL BEAMS WITH NATURAL CAMBER UPWARD. PROVIDE BEAMS WITH AN UPWARDS PRECAMBER, IF ANY, AS SHOWN ON DRAWINGS.

### LIGHTWEIGHT/COLD-FORMED STEEL

L1. WORKMANSHIP AND MATERIALS TO COMPLY AS1397, AS3623, AS4600 AND MANUFACTURERS RECOMMENDATIONS.ALL STRUCTURAL MEMBERS SHALL BE OF GRADE G500 & G450 U.N.O.

L2. PROVIDE PURLINS AND GIRTS WITH GALVANIZED COATING OF 350 g/m2 (OR 450 g/m2) = MINIMUM COATING MASS TO AS1397 UNO.

L3. ALL TOP HAT SECTIONS SHALL BE PRODUCED FROM G500/G550HIGH-TENSILE STEEL WITH A GALVANIZED / ZINC-ALUMINUM ALLOYS COATING CONFORMING TO AS1397.

L4. PROVIDE CEILING AND WALL FRAMING WITH GALVANIZED COATING OF 275 g/m2 = MINIMUM COATING MASS TO AS1397 UNO. CLEAN AND TREAT WELDS **USING ZINC-RICH PAINT.** 

L5. HOLES IN PURLINS AND OTHER COLD FORMED SECTIONS TO BE IN ACCORDANCE WITH PURLIN MANUFACTURER'S RECOMMENDATIONS. OR ONLY IN MIDDLE THIRD OF WEB. DO NOT MAKE HOLES IN FLANGES OF PURLINS OR OTHER COLD FORMED SECTIONS.

L6. AT WALL/ROOF INTERSECTIONS, DIAGONAL RIDGES, HIPS, VALLEYS etc PROVIDE DIAGONAL TRIMMERS (PURLINS AND/OR ANGLES) TO SUPPORT CLADDING AND FLASHING UNO.

L7. PROVIDE NECESSARY SUPPORT FRAMES, TRIMMERS etc FOR BUILDING SERVICES

L8. FIX SHEETING TO ALL PURLINS AND GIRTS. PURLIN AND GIRT DETAILS INCLUDING FIXINGS, CONNECTIONS, BRIDGING, LAPS AND INSTALLATION TO BE IN ACCORDANCE WITH MANUFACTURERS GUIDES AND RECOMMENDATIONS OR AS SHOWN ON DRAWINGS UNO.

### BOLTS

B1. M16 AND LARGER BOLTS TO BE HIGH STRENGTH STRUCTURAL BOLTS. 8.8/S PROCEDURE AND M12 SIZE BOLTS SHALL BE COMMERCIAL BOLTS, 4.6/S PROCEDURE UNO.

B2. FOR BOLTS MANUFACTURED OUTSIDE AUSTRALIA, PROVIDE LOCAL INDEPENDENT NATA-ACCREDITED LABORATORY COMPLIANCE CERTIFICATE BASED ON APPROPRIATE TESTING AND VERIFICATION.

B3. USE BOLTS WITH THREADS IN COMPLIANCE WITH AS1275. BOLTS OF STRENGTH GRADE 4.6 TO BE COMMERCIAL GRADE BOLTS TO AS1111 AND 1112. BOLTS OF STRENGTH GRADE 8.8 TO BE HIGH STRENGTH STRUCTURAL BOLTS. NUTS AND WASHERS TO AS/N7S1252. MECHANICAL PROPERTIES OF BOLTS, NUTS, SCREWS AND STUDS TO COMPLY WITH AS /NZS4291. WASHERS TO COMPLY WITH AS1237. TIGHTENING PROCEDURES TO COMPLY WITH AS4100:

- S SNUG TIGHT
- TB BEARING MODE JOINT, BOLTS FULLY TENSIONED.

TF FRICTION MODE JOINT, BOLTS FULL TENSIONED. (CONTACT SURFACES OF FRICTION CONNECTIONS TO BE UNCOATED AND FREE OF MILL SCALE.)

B4. BOLT TYPE AND TIGHTENING PROCEDURE ARE DESIGNATED: NUMBER, SIZE STRENGTH GRADE/TIGHTENING PROCEDURES.

eg. 4-M24 8.8/TB = 4 OFF 24 DIAMETER METRIC HIGH STRENGTH STRUCTURAL BOLTS FULLY TENSIONED IN BEARING MODE.

B5. USE BOLT LENGTHS SO THAT PROJECTION BEYOND NUT IS AT LEAST TWO THREADS, AND NOT MORE THAN 10 mm

B6. PROVIDE A COLOUR FLASH AT LOCATIONS OF TF AND TB BOLTS. DEGREASE AND LIGHTLY OIL TF AND TB BOLTS PRIOR TO INSTALLATION. TENSION TF AND TB BOLTS USING PART-TURN METHOD (OR TAMPER PROOF LOAD INDICATING WASHERS FOR TF BOLTS) TO AS4100. DO NOT USE CALIBRATED TORQUE WRENCHES. PROVIDE WITNESS MARKS ON BOLT AND NUT. PROVIDE A HARDENED WASHER UNDER BOLT HEAD OR NUT, WHICHEVER IS ROTATED. DO NOT REUSE TB OR TF BOLTS ONCE TENSIONED.

B7. SLIP FACTOR ASSUMED FOR FRICTION TYPE BOLTS = 0.35. TREAT CONTACT SURFACES BY WIRE BRUSHING OR LIGHT BLASTING TO CLASS 3 (SURFACE PROFILE 35 TO 65 MICRONS) AS REQUIRED TO ACHIEVE ASSUMED SLIP FACTOR

B8. USE BOLTS, SCREWS, NUTS AND WASHERS HOT DIP GALVANIZED BY MANUFACTURER TO AS1214. TAP GALVANIZED NUTS 0.4 mm OVERSIZE TO SUIT GALVANIZED THREADS TO AS1214 AND OIL FOR PROTECTION. INSTALL WASHERS

	Wirtu L. Bayissa           Registered Professional Engineer           B.Sc. (Civil), M.Tech (Building Structures), PhD (Structures)           MIEAust, CPEng, CMEngNZ, NER, APEC, ImPE(Aust),			STEEL SHED	) \$	Client: Project:	lan O'Donoghue & Kelly Morris Co: Killaloe Resources & Recove Pty Ltd 26 Miallo Road, Miallo, 4873
Rev.	Signed         19/12/2024           RPEQ (16992), PE (Vic) (PE0002085), RC (NSW) (BDC3146), BSP (TAS) (702601568); BP (NT) (332299ES)         Remark/Comment	18/12/2024 Date:	W.B Appr.	AUSTRALIA 74 Platinum Street, Crestmead QLD 4132. PO Box 1581, Browns Plains, Brisbane, QLD, Australia.	T:07 3827 8000 F:07 3803 2320 W:steelshedsaustralia.com.au	Title:	GENERAL NOTES SHEET-2

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UNDER BOLT HEAD OR NUT, WHICHEVER PART IS ROTATED. USE HARDENED OR PLATE WASHERS UNDER BOTH HEAD AND NUT FOR OVERSIZED AND SLOTTED HOLES TO AS4100. USE TAPERED WASHERS AS REQUIRED UNDER NON-ROTATING PΔRT

B9. SLOTTED HOLES TO BE 2.5 x BOLT DIAMETER LONG UNO. BOLTS TO BE SET CENTRAL IN SLOT UNO. USE 8 mm PLATE WASHERS UNDER BOLT HEAD AND NUT TO COMPLETELY COVER HOLE.

### WELDING

W1. USE PREQUALIFIED WELD PROCEDURES AND CONSUMABLES TO AS/NZS1554.1 CLAUSE 4.3 OR DEVELOP QUALIFICATION OF WELD PROCEDURE AND CONSUMABLES BY TESTING TO AS/NZS1554.1 CLAUSE 4.2. W2. WELDING TO BE UNDERTAKEN BY SUITABLY QUALIFIED EXPERIENCED WELDER UNDER SUPERVISION OF QUALIFIED WELDING SUPERVISOR.

W3. CARRY OUT WELDING TO AS/NZS1554: ALL INTERFACES BETWEEN STEEL SECTIONS TO BE CONNECTED WITH 6 mm CONTINUOUS FILLET WELDS ALL ROUND. BOTH SIDES LINO

- WELDS TO BE SHOP WELDED UNO.
- WELDS TO BE CATEGORY SP.
- BUTT WELDS TO BE FULL (COMPLETE) PENETRATION UNO.

ELECTRODES TO BE LOW CARBON WITH TENSILE STRENGTH OF fuw=490 MPa, PRE-APPROVED TO AS/NZS1554, eg CLASSIFICATION B-E49XX.

- W4. EXTENT OF WELD INSPECTION/TESTING TO BE:
  - VISUAL SCANNING: 100% OF WELDS

VISUAL EXAMINATION: 100% OF BUTT WELDS IN TENSION MEMBERS AND 50% OF OTHER WELDS

RADIOGRAPHIC OR ULTRASONIC: 10% OF BUTT WELDS IN TENSION MEMBERS AND 5% OF OTHER WELDS.

W5. GRIND WELDS SMOOTH AND FLUSH WITH PARENT METAL WERE NOMINATED ON DRAWINGS. GRIND ONLY IN LONGITUDINAL DIRECTION OF MEMBER.

W6. REPAIR FAULTY WELDS AND DEFECTS REVEALED BY WELD INSPECTION/TESTING AND REPEAT THE EXAMINATION.

W7. WELDS TO BE INSPECTED BY INDEPENDENT NATA ACCREDITED QUALIFIED WELDING INSPECTOR TO AS2214.

### CONNECTIONS

C1. STEEL CONNECTION DETAILS TO BE IN ACCORDANCE WITH AS4100 AND AUSTRALIAN STEEL INSTITUTE (ASI) STRUCTURAL STEEL CONNECTION SERIES OF MANUALS AND GUIDES UNO.

### SERVICE HOLES

C2. SERVICE HOLES ARE PERMITTED IN WEBS OF ALL STRUCTURAL MEMBERS. MAXIMUM SIZE 35mm DIA FOR SECTIONS LARGER THAN C/Z150 & MAXIMUM SIZE 25mm DIA FOR SECTIONS C/Z100, SPACING BETWEEN SERVICE HOLES TO BE AT LEAST 100mm

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ry	Job No.	SSA9132
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# Site Specific Windspeed Report Wind Code AS/NZS 1170.2:2021

Wind			
Wind Region:	С	Terrain Category (TC):	2.6
Latitude:	-16.397971	Critical Direction:	NORTH
Longitude:	145.380911	Md:	0.90
Elevation:	6	Mz. cat:	0.87
Importance Level:	2	Ms:	1.00
Average Height:	3.26	Mt:	1.00
ULTIMATE VR:	65 m/s	WIND SPEED (Vsit, β):	50.67 m/s
ULTIMATE ARI:	vr500	WIND PRESSURE (qsit, β):	1.5405 kPa
Snow		(1, ,1,	
Snow Region:	N/A	Snow Classification:	N/A
lce			
Ice Region:	No	VR:	39
Seismĭc			
	0		

Seismic Risk Coefficient:



Leg	Legend					
	T.C.1					
	T.C.1.5					
	T.C.2					
	T.C.2.5					
	T.C.3					
	T.C.4					

B.Sc. MII	Wirtu L. Bayissa Registered Professional Engineer .(Civil), M.Tech (Building/Structures), PhD (Structures) EAust, CPEng, CMEngNZ, NER, APEC, IntPE(Aust),						
Signed RPEQ (TAS)	d			Customer Name: Site Address: Project Reference:		Cal	Kelly Morris 26 Miallo Road, Miallo, QLD, 4873 SC.117338 culations provided by Revolutio Hazard API v4
				STEEL SHEI	DS	Client: Project:	Ian O'Donoghue & Kelly Morris Co: Killaloe Resources & Recov Pty Ltd 26 Miallo Road, Miallo, 4873
Rev.	Remark/Comment	18/12/2024 Date:	W.B Appr.	AUSTRALIA 74 Platinum Street, Crestmead QLD 4132. PO Box 1581, Browns Plains, Brisbane, QLD, Australia.	T:07 3827 8000 F:07 3803 2320 W:steelshedsaustralia.com.au	Title:	SITE WIND REPORT

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Building Dimensions								
Categories	Span	Length	Height	Pitch	Number of bays	Design Open/Close	Wind Region	Wind Speed
Main Building	5974	13784	3000	10	4	Open	С	50.67

Bay Length									
	Bay 1	Bay 2	Bay 3	Bay 4					
Bay Length	3446	3446	3446	3446					

Cladding Elements & Colours									
Category	Colour	Product							
Roof Cladding	Armour Grey	Spanclad 0.42							
Wall Cladding	Gull Grey	Spanclad 0.42							
Trim	Armour Grey	Type 06 06 Flashing							
Roller Door	Armour Grey	See roller door specification table							
Downpipes	PVC	PVC Pipe 3m 90mm							

	Portal Elements								
	Portal 1	Portal 2	Portal 3	Portal 4	Portal 5				
Purlin	Z10015	Z10015	Z10015	Z10015	Z10015				
Eave purlin	C10015	C10015	C10015	C10015	C10015				
Purlin design spacing	953	953	953	953	953				
End girt	Z10015				Z10015				
Side girt	Z10015	Z10015	Z10015	Z10015	Z10015				
Girt design spacing	884	884	884	884	884				
Upright	C15019				C15019				
Upright base hold down	M12 150mm				M12 150mm				
Upright base connection	Cleat				Cleat				
Leg	C20019	C15012	C20019	C20019	C15012				
Rafter	C20019	C15012	C20019	C20019	C15012				
Leg base hold down	M12 100mm		M12 100mm	M12 100mm	M12 100mm				
Leg base connection	Cleat		Cleat	Cleat	Cleat				

Bracing Specifications								
End Wall Bracing	2X 50 x 1.0 Straps							
Side Wall Bracing	2X 50 x 1.0 Straps							
Roof Bracing End	30 x 1.0 Straps							
Roof Bracing Mid	30 x 1.0 Straps							

Roller Doors Specifications									
Opening	2900 x 2650	2900 x 2650	2900 x 2650						
Wall	1	1	1						
Jambs	C15024	C15024	C15024						
Common Jamb	N/A	N/A	N/A						
Head Beam	C15012	C15012	C15012						

### NOTE: Dimensions are in mm.

NOTE: Allowable tolerance limit for girts and purlins spacing variations without adversely affecting performance characteristics of these is up to 100mm

		Wirtu L. Bayissa Registered Professional Engineer B.S.C.(CiVI), MrEch (Building/Structures), DBD (Structures) MIEAust, CPEng, CMEngNZ, NER, APEC, IntPE(Aust),			STEEL SHEE	<b>DS</b>	Client: Project:	Ian O'Donoghue & Kelly Morris Co: Killaloe Resources & Recove Pty Ltd 26 Miallo Road, Miallo, 4873
Rev.	Remark/Comment	Signed	18/12/2024 Date:	W.B Appr.	74 Platinum Street, Crestmead QLD 4132. PO Box 1581, Browns Plains, Brisbane, QLD, Australia.	T:07 3827 8000 F:07 3803 2320 W:steelshedsaustralia.com.au	Title:	MEMBER SCHEDULE

Note: \* Indicates signature on original issue of drawings or last revision of drawing(These drawings are valid only when endorsed by a separate design certificate that is valid for the date of issue and construction.)



### <u>KEYS</u>

B.E Refers to bottom edge of section CTR Refers to centres F.F.L Refers to finished floor level R.O Refers to rough opening T.E Refers to top edge of section U.N.O Refers to unless noted otherwise

### Opening symbol



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SLAB & EDGE BEAM SCHEDULE (SOIL CLASSIFICATION A,S & M ONLY)									
LOADING	CONCRETE GRADE (Mpa)	SLAB DEPTH (mm)	BEAM BOTTOM REINFORCEMENT	SLAB REINFORCEMENT					
GENERAL AREAS / GARAGE -2.0 kPa	25	100	2-18TM 'OB' 2N10	(a) SL72, WHERE SLAB LENGTH <18 m					
GENERAL AREAS (NOT SUBJECTED TO VEHICULAR TRAFFIC) -5 kPa	25	125							

\*. IF TRENCH MESH IS USED THE WIDTH OF EDGE BEAM MUST BE 250MM TO ACCOMMODATE THE MESH.

### FOOTING NOTES

- 1. A SITE-SPECIFIC GEOTECHNICAL INVESTIGATION IS RECOMMENDED.
- 2. DESIGN SUITABLE FOR PNEUMATIC WHEELS ONLY.
- 3. POINT LOADS FROM PALLET RACKING, MACHINE LOADS HAS NOT BEEN COVERED BY THESE DESIGNS.
- 4. SOLID WHEELS LOADING HAS NOT BEEN COVERED BY THESE DESIGNS.
- 5. UNCONTROLLED FILL SITES ARE NOT APPLICABLE FOR THIS DESIGN.
- 6. DESIGN SHOWN HEREIN ARE APPROPRIATE ONLY FOR CLASS 10A & 7B BUILDING IN ACCORDANCE WITH BCA U.N.O.
- 7. DESIGN APPLICABLE FOR IMPORTANCE LEVEL 1 & 2 ONLY.
- 8. DESIGN NOT SUITABLE FOR SERVICES UNDER SLABS.
- 9. DESIGN ARE APPROPRIATE FOR EXPOSURE CLASSIFICATION UPTO "A2" AS PER AS3600 ONLY.
- 10. ADVICE ON HIGHER EXPOSURE CLASSIFICATION MUST BY PROVIDED TO THE ENGINEER UPON GEOTECHNICAL INVESTIGATION FOR REVIEW.
- 11. MINIMUM ALLOWABLE BEARING CAPACITY AT NATURAL GROUND LEVEL = 100kPa.

## SLAB LAYOUT WITH PIER FOOTING

		PIER S		LEGEND			
DIAMETER	DEPTH	CONCRETE GRADE			COVER	EB	EDGE BEAM
(mm)	(mm)	(Mpa)	REINFORCEIVIENT	LIGS	(mm)	DJ	DOWELLED JOINT
450	<b>150 800</b> 25		3-N12 R	R6 @ 250ctrs	60	SCJ	SAWCUT JOINTS
				-	U.N.O	BP	BORED PIER

JOINT NOTES

12. THESE PIER DESIGNS ARE APPROPRIATE TO SOIL CONDITIONS AS FOLLOWS: a. ALLOWABLE SKIN FRICTION = 25kPa

- b. MINIMUM ALLOWABLE BEARING CAPACITY AT NATURAL GROUND LEVEL = 100kPa.
- c. MINIMUM ALLOWABLE BEARING CAPACITY AT BASE OF (PIER FOOTING) = 250kPa.

	Wirtu L. Bayissa Registered Professional Engineer B.S.C.(Crivi), M.Tech (Buiding/Structures), PhD (Structures) MIEAust, CPEng, CMEngNZ, NER, APEC, ImPE(Aust),					Client:	lan O'Donoghue & Kelly Morris Co: Killaloe Resources & Recovery Pty Ltd
	MEET			SIEEL SHEDS		Project:	26 Miallo Road, Miallo, 4873
	Signed						
	RPEQ (16592), PE (Vic) (PE0002085), RC (NSW) (BDC3146), BSP (TAS) (702601568); BP (NT) (332299ES)	18/12/2024	W.B		8827 8000	Title:	FOUNDATION PLAN
Rev.	Remark/Comment	Date:	Appr.	74 Platinum Street, Crestmead QLD 4132. P.07 38 PO Box 1581, Browns Plains, Brisbane, QLD, Australia. W:stee	elshedsaustralia.com.au		

- 1. SAWN JOINTS (SJ) SHALL BE PLACED AT A MAXIMUM OF 6.0M CENTERS IN EACH DIRECTION, WITH THE RATIO OF THE PANEL SHORT SIDE NOT TO EXCEED 1.5:1.
- 2. AVOID JOINTS INTERSECTING WHERE ANY FIXING TO THE SLAB IS MADE.
- 3. EVERY SECOND MESH WIRE TO BE CUT ALONG SAWN JOINT.PLEASE REFER TYPICAL DETAIL.
- 4. CONSTRUCTION CONTROL JOINTS (DJ) SHALL BE LOCATED AT A MAXIMUM OF 18.0M CENTERS IN EACH DIRECTION.PLEASE REFER TYPICAL DETAILS.
- 5. FOR SLAB SIZE ABOVE 15M X 15M JOINT LAYOUT MUST BE APPROVED FROM THE ENGINEER.

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## **BEAM WITH PIER DETAIL-BP**

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CODVDICUT: THESE DDAWINGS MILET NO	
COFTRIGITI. THESE DRAWINGS WUSTING	FERMISSION OF STEEL SHEDS AUSTRAL

Bridgi	ng	Qty/Length			
CL	Ceiling Batten 22mm	8 / 3033			
Flybrace Roof					
F	FB200Z	4 / 200			
End Rafter					
G	C15012	4 / 2745			
Garap	ort Rafter				
BN	C20019	2 / 2686			
Mid R	after				
М	C20019	4 / 2686			
Eave F	Purlin End				
N	C10015	2 / 3580			
Q	C10015	2 / 3446			
Eave Purlin Mid					
0	C10015	2 / 3312			
Р	C10015	2 / 3446			
Purlin					
U	Z10015	3 / 3446			
V	Z10015	3 / 3446			
W	Z10015	3 / 3744			
Х	Z10015	3 / 3744			
Y	Z10015	6 / 4041			
Z	Z10015	3 / 3743			
BU	Z10015	2 / 3744			
BV	Z10015	1/3743			
Bracir	lg				
30 x 1	.0 Straps				



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CODVDICUT: THESE DDAMINOS MUST		
		SHEDSAUSTRAL

Head	Beam	Qty/Length
BS	C15012	3 / 2900
End l	eg	
Н	C15012	1/2914
L	C15012	1/2914
Mid I	Leg	
J	C20019	2 / 2914
Gara	port Leg	
BM	C20019	1 / 2979
Door	Jamb	
BQ	C15024	6 / 2899
Gara	port Side Girt	
Т	Z10015	1/3708
Side	Girt	
BY	Z10015	3 / 121
ΒZ	Z10015	3 / 242
CA	Z10015	3 / 178
СВ	Z10015	3 / 185
Restr	ain Leg	
СК	C20015	1 / 2979
PA D	oor	
CN	2055mm H x 840mm W	1/0
Rolle	r Door	
ົດງ	2650mm H x 2900mm W	3/0



Wirtu L. B	ayissa
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		STEEL SHEDS	I	Project:	Pty Ltd 26 Miallo Road, Miallo, 4873	Drawi
		ALISTRALIA				Date:
18/12/2024 Date:	W.B Appr.	AUDITIALIA T:07 3827 8000 F:07 3803 2320 PO Box 1581 Browns Plaine Brichane OLD Australia Wisteekbadeaus	tralia com au	Title:	ELEVATION WALL 1	Scale

у	Job No.	SSA9132	
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Bridgi	ng	Qty/Length			
CL	Ceiling Batten 22mm	2 / 3213			
End R	End Rafter				
G	C15012	2 / 2745			
End Lo	eg				
L	C15012	2 / 2914			
PA Door					
CN	2055mm H x 840mm W	1/0			
Flybrace					
I	FB150Z	1 / 200			
Upright					
S	C15019	1/3210			
End G	irt				
BW	Z10015	4 / 3182			
BX	Z10015	4 / 3182			
PA Do	or Jamb				
CF	Type 09 03 Flashing	2 / 2783			
PA Do	or Header				
CJ	Type 09 03 Flashing	1/952			
Bracir	lg				
50 x 1	50 x 1.0 Straps				

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19/12/2024







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1	0	2

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Bridgi	ng	Qty/Length										
CL	Ceiling Batten 22mm	1/3213										
End Ra	after											
G	G C15012 2 / 2745											
End Leg												
н	Н С15012											
PA Do	or											
CN	2055mm H x 840mm W	1/0										
Flybra	ce											
I	FB150Z	1 / 200										
Uprigł	nt											
R	1 / 3209											
End Girt												
BW	Z10015	4 / 3182										
BX	Z10015	4 / 3182										
PA Do	or Jamb											
CF	Type 09 03 Flashing	2 / 2783										
PA Door Header												
CJ	Type 09 03 Flashing	1/952										
NC Wi	ndow Sil											
BE	Type 20 14	1 / 1325										
NC Wi	ndow Header											
BD	Type 20 14	1 / 1325										
NC Wi	ndow Jamb											
CG	Туре 20 15	2 / 2637										
Bracin	g											
50 x 1	.0 Straps											



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STEEL SHEDS       Client:       Ian O'Donoghue & Kelly Morris Co: Killaloe Resources & Recovery         Project:       26 Miallo Road, Miallo, 4873
Image: New Section Se

y	Job No.	SSA9132		
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Garap	ort Rafter	Qty/Length					
BN	C20019	2 / 2686					
Garap	oort Leg						
BM	C20019	2 / 2979					
Restra	ain Leg						
СК	C20015	2 / 2979					





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Mid R	Mid Rafter								
М	C20019	2 / 2686							
Mid L									
J	C20019	2 / 2914							
Flybra									
E	FB200Z	1/200							

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(TAS) (702601568); BP (NT) (332299ES)

Rev. Remark/Comment



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		Wirtu L. Bayissa Registered Professional Engineer B. Sa (Givi) M. Tack (Mising Structures). DbD (Structures)					Client:	Ian O'Donoghue & Kelly Morris Co: Killaloe Resources & Recovery	Job No.	SSA9132
		MIEAust, CPEng, CMEngNZ, NER, APEC, IntPE(Aust)			STEEL SHED	)S	Project:	Pty Ltd 26 Miallo Road, Miallo, 4873	Drawing No.	SSA-DW-20
		Signed	10/12/2024			T-07 2827 8000			Date: 18/12/2024	Approved: Wirtu L. Bayissa
Rev.	Remark/Comment	(TAS) (702601568); BP (NT) (332299ES)	Date:	Appr.	74 Platinum Street, Crestmead QLD 4132. PO Box 1581, Browns Plains, Brisbane, QLD, Australia.	F:07 38027 8000 F:07 3803 2320 W:steelshedsaustralia.com.au	litle:	CONNECTION DETAIL-2	Scale: N.T.S	Sheet : 20 of 20

# CLADDING & ASSEMBLY DETAILS

] 5 H (	Wirtu L. Bayissa Registered Professional Engineer B.Sc.(Civil), M.Tech (Building/Structures), PhD (Structures) MIEAust, CPEng, CMEngNZ, NER, APEC, IntPE(Aust), <u>19/12/2024</u> Signed RPEQ (16592), PE (Vic) (PE0002085), RC (NSW) (BDC3146), BSP TAS) (702601568); BP (NT) (332299ES)							
				STEEL	SHE	<b>DS</b>	Client: Project:	Ian O'Donoghue & Kelly Morris Co: Killaloe Resources & Recove Pty Ltd 26 Miallo Road, Miallo, 4873
	ev. Remark/Comment	18/12/2024 V Date: A	N.B 74 Platinum Street, Cres PO Box 1581, Browns Pl	AUST tmead QLD 4132. ins, Brisbane, QLD, Australia.	RALIA	T:07 3827 8000 F:07 3803 2320 W:steelshedsaustralia.com.au	Title:	CLADDING AND ASSEMBLY COVER PAGE

у	Job No.	SSA9132
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**CLADDING PROFILE** 

## CLADDING SPECIFICATION

- 1. ROOF AND WALL SHEETING SHALL BE G550 GRADE STEEL PROTECTED WITH ZINCALUME AZ150.
- 2. ROOF SHEETING CAN BE REPLACED WITH CLEAR ROOF 2400GSM PANEL FIXED TO MANUFACTURERS SPECIFICATIONS. A HIGHER GSM RATE MAY BE REQUIRED FOR SNOW AREA'S.
- 3. BRIDGING TO BE EX. C100 LIPPED CRIMPED CHANNELS 0.95mm B.M.T, 1.2mm, 1.5mm OR 1.9mm B.M.T.
- 4. ALL SHEETING, FRAMING AND FLASHING SCREWS SHALL BE CLIMASEAL 4.

## **ROOF CLADDING**

(NOTE: MAXIMUM SPAN OF CLADDING, AND TEK SCREW LOCATIONS FOR EACH CLADDING TYPE ) **REGION A & B:** 

### CORRUGATED 0.42 B.M.T:

FIXED WITH #12-14x48 NEO TEKS AT EVERY 2<sup>nd</sup> CREST TO RIDGE PURLIN,#12-14x65 NEO AT EVERY 2<sup>nd</sup> CREST TO EAVE PURLIN AND #12-14x 35 NEO TEKS 2-3-3-2 PATTERN FOR INTERMEDIATE PURLIN FASTENERS.

## 7 RIB 0.35/0.42 B.M.T:

(0.35mm B.M.T APPROVED FOR REGION A ONLY) FIXED WITH #12-14x48 NEO TEKS EVERY RIB TO RIDGE PURLIN,#12-14x65 NEO TEKS EVERY RIB TO EAVE PURLIN WITH AND #12-14x 35 NEO TEKS ALTERNATE RIBS FOR ALL INTERMEDIATE PURLINS.

## SPANCLAD 0.42mm B.M.T:

• FIXED WITH #12-14x65 NEO TEKS TO EAVE PURLIN AT EVERY RIB, #12-14x48 NEO TEKS TO RIDGE & INTERMEDIATE PURLIN AT EVERY RIB.

## **REGION C:**

## CORRUGATED 0.42 B.M.T:

FIXED WITH #14-10x53 NEO WITH PROFILE WASHERS AT EVERY 2<sup>nd</sup> CREST TO INTERMEDIATE PURLIN,#14-10x65 NEO WITH PROFILE WASHERS AT EVERY 2<sup>nd</sup> CREST TO EAVE PURLIN AND #14-10x53 MULTISEAL EVERY 2<sup>nd</sup> CREST TO RIDGE PURLIN.

## SPANCLAD 0.42 B.M.T:

FIXED WITH #14-10x53 NEO WITH PROFILE WASHERS AT EVERY CREST TO ALL PURLINS.

## WALL CLADDING

(NOTE: MAXIMUM SPAN OF CLADDING, AND TEK SCREW LOCATIONS FOR EACH CLADDING TYPE )

## **REGION A & B:**

### CORRUGATED 0.42 B.M.T:

• FIXED WITH #10-16x22 NEO TEKS AT EVERY SECOND VALLEY TO ALL GIRTS.

### 7 RIB 0.35/0.42 B.M.T:

 FIXED WITH #10-16x22 TEKS AT EVERY VALLEY TO TOP AND BOTTOM GIRT AND EVERY SECOND VALLEY FOR ALL INTERMEDIATE GIRTS.

### SPANCLAD 0.35 / 0.42 B.M.T:

FIXED WITH #10-16x22 TEKS AT EVERY VALLEY TO TOP AND BOTTOM GIRT AND EVERY SECOND VALLEY FOR ALL INTERMEDIATE GIRTS.

### TOTALCLAD 0.35/0.42 B.M.T:

FIXED WITH #10-16x22 TEKS AT EVERY VALLEY TO TOP AND BOTTOM GIRT AND EVERY SECOND VALLEY FOR ALL INTERMEDIATE GIRTS.

## **REGION C :**

## CORRUGATED 0.42 B.M.T:

FIXED WITH #14-10x22 NEO TEKS AT EVERY SECOND VALLEY TO ALL GIRTS.

## 7 RIB 0.42 B.M.T (0.35 B.M.T NOT AVAILABLE):

• FIXED WITH #14-10x22 NEO TEKS AT EVERY VALLEY TO ALL GIRTS.

## SPANCLAD 0.35/0.42 B.M.T:

FIXED WITH #14-10x22 NEO TEKS AT EVERY VALLEY TO ALL GIRTS







MAX. SPAN OF CLADDING

(1200mm (900mm) REPRESENTS 1200mm INTERNAL SPANS, 900mm END SPANS AT EAVES AND RIDGE.)



CORRUGATED PROFILE (0.42mm BMT - ROOF)





SPANCLAD PROFILE (0.42mm BMT - ROOF 0.35mm BMT WALLS)

## MAX. SPAN OF CLADDING (CORRUGATED)

REGION	ROOF	WALLS
А	1500mm (1200)	1800mm
В	1500mm (1200)	1800mm
С	1100mm (880)	1200mm

(1200mm (900mm) REPRESENTS 1200mm INTERNAL SPANS, 900mm END SPANS AT EAVES AND RIDGE.)

MAX. SPAN OF CLADDING						
	(SPANCLAD )					
	DECION	2005				

REGION	ROOF	WALLS
А	1500mm (1200)	1800mm
В	1500mm (1200)	1800mm
С	1100mm (880)	1200mm

(1200mm (900mm) REPRESENTS 1200mm INTERNAL SPANS, 900mm END SPANS AT EAVES AND RIDGE.)

TEK SCREW - WALL	

TOTALCLAD PROFILE (0.35mm / 0.42mm BMT - WALLS)

	MAX. SPAN OF CLADDING (TOTALCLAD)					
$\frown \neq$	REGION	ROOF	WALLS			
/	Α	N/A	1200mr			

A	N/A	1200mm
В	N/A	1200mm
С	N/A	N/A

	Wirtu L. Bayissa Registered Professional Engineer B.Sc.(Givil), MTech (Building/Structures), PhD (Structures) MIEAust, CPEng, CMEngNZ, NER, APEC, IntPE(Aust),			STEEL SHEE	DS	Client: Project:	Ian O'Donoghue & Kelly Morris Co: Killaloe Resources & Recov Pty Ltd 26 Miallo Road, Miallo, 4873
Rev.	Signed         19/12/2024           RPEQ (16592), FE (Vic) (PE0002085), RC (NSW) (BDC3146), BSP (TAS) (702601568); BP (NT) (332299ES)           Remark/Comment	18/12/2024 Date:	W.B Appr.	AUSTRALIA 74 Platinum Street, Crestmead QLD 4132. PO Box 1581, Browns Plains, Brisbane, QLD, Australia.	T:07 3827 8000 F:07 3803 2320 W:steelshedsaustralia.com.au	Title:	CLADDING & MEMBER PROFILE SPECIFICATION

## MEMBER PROFILES



Z - SECTION

**C - SECTION** 

MEMBER PROFILES								
C SECTION	Z SECTION							
C100 10 12 15 19	Z100 10 12 15 19							
C150 12 15 19 24	Z150 12 15 19 24							
C200 19 24	Z200 19 24							
C250 19 24	Z250 19 24							
C300 24 30	Z300 24 30							
C350 30	Z350 30							



**C - SECTION** 

(BACK TO BACK SECTION)

MEMBER PROFILES
C SECTION
B2B C100 10 12 15 19
B2B C150 12 15 19 24
B2B C200 19 24
B2B C250 19 24
B2B C300 24 30
B2B C350 30



TH64

TH96

## **TOP HAT - SECTION**

y	Job No.	SSA9132
	Drawing No.	SSA-CD-02
	Date: 18/12/2024	Approved: Wirtu L. Bayissa
	Scale: N.T.S	Sheet : 2 of 16

Gutte	Qty/Length				
AP	Gutter Big M	6 / 4828			
Ridge Cap					
AV	Type 03 03 Flashing	4 / 3559			
Barge					
AW	Type 06 06 Flashing	4/3211			
Roofing					
AX	Spanclad 0.42	36/3111			

	AX	AX	AA	AX	AX	AX	AX	AX	AA	AX	AX	AX	AX
┢	<u> </u>		≥ ∡				_ ≥					l ≥	
	AX	AX	AP AX	AX	AX	AX	AX	AX	AP AX	AX	AX	AX	AX

Wirtu L. Bayissa Registered Professional Engineer B.Sc.(Civil), M.Tech (Building/Structures), PhD (Structures) MIEAust, CPEng, CMEngNZ, NER, APEC, IntPE(Aust),



19/12/2024 Signed RPEQ (16592), PE (Vic) (PE0002085), RC (NSW) (BDC3146), BSP (TAS) (702601568); BP (NT) (332299ES)

					Client:	Ian O'Donoghue & Kelly Morris Co: Killaloe Resources & Recover
				CTEEL CHEDC		Pty Ltd
				SIEEL SHEDS	Project:	26 Miallo Road, Miallo, 4873
		18/12/2024	W.B		Title:	CLADDING ROOF PLAN
Rev.	Remark/Comment	Date:	Appr.	74 Platinum Street, Crestmead QLD 4132.     F:07 3803 2320       PO Box 1581, Browns Plains, Brisbane, QLD, Australia.     W:steelshedsaustralia.com.au	I	





у	Job No.	SSA9132
	Drawing No.	SSA-CD-03
	Date: 18/12/2024	Approved: Wirtu L. Bayissa
	Scale: N.T.S	Sheet : 3 of 16



PA D	oor	Qty/Length					
CN	2055mm H x 840mm W	1/0					
Verm	Vermin Flashing						
AY	Type 04 07 Flashing	1 / 5974					
End \	Wall Cladding						
AD	Spanclad 0.42	1 / 3169					
AE	Spanclad 0.42	1 / 3304					
AF	Spanclad 0.42	1 / 3438					
AG	Spanclad 0.42	1 / 3552					
AH	Spanclad 0.42	1 / 3541					
AI	Spanclad 0.42	1 / 3407					
AJ	Spanclad 0.42	1/3272					
AK	Spanclad 0.42	1/3138					
PA H	ead Flashing						
BB	Type 01 07 Flashing	1/965					



5974



 $\star$ 

/	Job No.	SSA9132
	Drawing No.	SSA-CD-05
	Date: 18/12/2024	Approved: Wirtu L. Bayissa
	Scale: N.T.S	Sheet : 5 of 16

Garaport Skirt Flashing Qty/Length							
AA	Type 01 11 Flashing 1 / 3622						
Corne	r Flashing						
AB	Type 05 10 Flashing	1 / 2939					
AL	Type 05 10 Flashing	1/3025					
Side V	Vall Cladding						
AM	Spanclad 0.42	4 / 299					
AN	Spanclad 0.42	14 / 3024					
Vermi	n Flashing						
AZ	Type 04 07 Flashing	1/13784					
Window Flashing							
BC Type 11 03 Flashing 4 / 900							
Window Head Flashing							
BF	Type 01 07 Flashing	2 / 1325					





B.Sc. MII Signed RPEQ (TAS)	Wirtu L. Bayissa Registered Professional Engineer (Civil), M.Tech (Building/Structures), PhD (Structures) EAust, CPEng, CMEngNZ, NER, APEC, IntPE(Aust), 19/12/2024 (16592), PE (Vic) (PE0002085), RC (NSW) (BDC3146), BSP (702601568); BP (NT) (332299ES)						
						Client:	lan O'Donoghue & Kelly Morris Co: Killaloe Resources & Reco∖ Pty Ltd
				SIEEL SHEL	12	Project:	26 Miallo Road, Miallo, 4873
Rev	Remark/Comment	18/12/2024	W.B Appr.	74 Platinum Street, Crestmead QLD 4132.	T:07 3827 8000 F:07 3803 2320	Title:	CLADDING ELEVATION WALL 3

y	Job No.	SSA9132
	Drawing No.	SSA-CD-06
	Date: 18/12/2024	Approved: Wirtu L. Bayissa
	Scale: N.T.S	Sheet : 6 of 16

PA Do	or	Qty/Length					
CN	2055mm H x 840mm W	1/0					
Corner Flashing							
AB Type 05 10 Flashing 2 / 2939							
End W	/all Cladding						
AD	Spanclad 0.42	1/3169					
AE	Spanclad 0.42	1/3304					
AF	Spanclad 0.42	1/3438					
AG	Spanclad 0.42	1 / 3552					
AH	Spanclad 0.42	1/3541					
AI	Spanclad 0.42	1/3407					
AJ	Spanclad 0.42	1/3272					
AK	Spanclad 0.42	1/3138					
PA He	ad Flashing						
BB	Type 01 07 Flashing	1/965					
Window Flashing							
BC Type 11 03 Flashing 2 / 900							
Windo	ow Head Flashing						
BF	Type 01 07 Flashing	1/1325					



Wirtu L. Bayissa Registered Professional Engineer B.Sc.(Civil), M.Tech (Building/Structures), PhD (Structures) MIEAust, CPEng, CMEngNZ, NER, APEC, IntPE(Aust), <u>19/12/2024</u> Signed					
			STEEL SHEDS	Client: Project	Ian O'Donoghue & Kelly Morris Co: Killaloe Resources & Recovery Pty Ltd : 26 Miallo Road, Miallo, 4873
Rev. Remark/Comment	18/12/2024 Date:	W.B Appr.	AUSTRALIA 74 Platinum Street, Crestmead QLD 4132. PO Box 1581, Browns Plains, Brisbane, QLD, Australia.	- 827 8000 803 2320 elshedsaustralia.com.au	CLADDING ELEVATION WALL 4

/	Job No.	SSA9132	
	Drawing No.	SSA-CD-07	
	Date: 18/12/2024	Approved: Wirtu L. Bayissa	
	Scale: N.T.S	Sheet : 7 of 16	

Garap	ort Vertical Flashing	Qty/Length
AT	Type 02 01 Flashing	2 / 300





/	Job No.	SSA9132
	Drawing No.	SSA-DW-8
	Date: 18/12/2024	Approved: Wirtu L. Bayissa
	Scale: N.T.S	Sheet : 8 of 16



у	Job No.	SSA9132
	Drawing No.	SSA-AD-01
	Date: 18/12/2024	Approved: Wirtu L. Bayissa
	Scale: N.T.S	Sheet : 9 of 16

ROOF BRACING	
DESCRIPTION	
BRACING STRIP	
TEK SCREWS	
TENSIONER SCREW	



ECTIONS:	
EWBOLT	
ION SECTION BASE CLEATS	
ALL GIRT SECTION	
CAL HEAD SECTION	
LION SECTION	
DESCRIPTION	

y	Job No.	SSA9132	
	Drawing No.	SSA-AD-02	
	Date: 18/12/2024	Approved: Wirtu L. Bayissa	
	Scale: N.T.S	Sheet : 10 of 16	





NOTE:- REFER TO ENGINEERING FRAMING DRAWINGS FOR OVERLAP SIZE OF GIRTS

5	
4	
3	
2	
1	
ITEN	
A	

						Client:	lan O'Donoghue & Kelly Morris Co: Killaloe Resources & Recovery	Job No.	SSA9132
				STEEL SHED	) S	Project:	26 Miallo Road, Miallo, 4873	Drawing No.	SSA-AD-03
		10/12/2024		ALISTRALIA	T.07 2927 9000			Date: 18/12/2024	Approved: Wirtu L. Bayissa
Rev.	Remark/Comment	Date:	Appr.	74 Platinum Street, Crestmead QLD 4132. PO Box 1581, Browns Plains, Brisbane, QLD, Australia.	F:07 3827 8000 F:07 3803 2320 W:steelshedsaustralia.com.au	litle:	ASSEMBLY DETAILS	Scale: N.T.S	Sheet : 11 of 16

	NUT
	BOLT
	TEK SCREWS
	FLY BRACE (PRESSED FLYBRACE SHOWN)
	TYPICAL UPRIGHT
No.	DESCRIPTION
.8	UPRIGHT TO Z'd GIRT WITH FLYBRACE





K SCREWS MULTISEAL WASHER	4 / RIDGE PRULIN
K SCREWS PROFILE WASHERS	4 / EAVES PURLIN
K SCREWS PROFILE WASHERS	4 / MID PURLINS
K SCREW BARE	1 / RIDGE PURLIN
DESCRIPTION	QTY
CLAD PROFILE ROOF SHEET	

у	Job No.	SSA9132
	Drawing No.	SSA-AD-04
	Date: 18/12/2024	Approved: Wirtu L. Bayissa
	Scale: N.T.S	Sheet : 12 of 16



6	SCREWBOLT
5	TEK SCREW
4	FLANGED NUT
3	FLANGED BOLT
2	CLEAT TO SUIT UPRIGHT SECTION
1	TYPICAL UPRIGHT
ITEM No.	DESCRIPTION
A33	LEG TO SLAB BASE CLEAT SINGLE

у	Job No.	SSA9132
	Drawing No.	SSA-AD-05
	Date: 18/12/2024	Approved: Wirtu L. Bayissa
	Scale: N.T.S	Sheet : 13 of 16



ry	Job No.	SSA9132		
	Drawing No.	SSA-AD-06		
	Date: 18/12/2024	Approved: Wirtu L. Bayissa		
	Scale: N.T.S	Sheet : 14 of 16		

6	TEK SCREW
5	FLANGED NUT
4	FLANGED BOLT
3	CENTRE MULLION TO APEX BRACKET
2	UPRIGHT
1	RAFTER
ITEM No.	DESCRIPTION
A15	REAR MULLION TO RAFTER



THA8	KNEE MID PLATE ASSEMBLY
ITEM No.	DESCRIPTION
1	KNEE PLATE - MID
2	PORTAL COLUMN
3	PORTAL RAFTER
4	FLANGED BOLT
5	FLANGED NUT





7		Z'd PURLIN SECTION
6*		FLYBRACE - WHERE REQUIRED
5*		TEK SCREW - WHERE REQUIRED
4		SQUARE WASHER
3		FLANGED NUT
2		FLANGED BOLT
1		PORTAL RAFTER
ITEM No.		DESCRIPTION
A12	Ρl	JRLIN LAP TO RAFTER

ŷ	Job No.	SSA9132
	Drawing No.	SSA-AD-07
	Date: 18/12/2024	Approved: Wirtu L. Bayissa
	Scale: N.T.S	Sheet : 15 of 16



7	TYP WINDOW
6	WINDOW HEAD SECTION
5	WINDOW SIDE JAMB
4	WINDOW SILL SECTION
3	TEK SCREWS
2	PAN HEAD SCREWS
1	Z'd WALL GIRT SECTION
ITEM No.	DESCRIPTION
A27	WINDOW FITMENT



B.Sc. MII Signed RPEQ (TAS)	Wirtu L. Bayissa Registered Professional Engineer (Civil), M.Tech (Building/Structures), PhD (Structures) EAust, CPEng, CMEngNZ, NER, APEC, IntPE(Aust), 19/12/2024 (16592), PE (Vic) (PE0002085), RC (NSW) (BDC3146), BSP 0 (702601568); BP (NT) (332299ES)					
				STEEL SHEDS	Client: Project:	Ian O'Donoghue & Kelly Morris Co: Killaloe Resources & Recove Pty Ltd : 26 Miallo Road, Miallo, 4873
Rev.	Remark/Comment	18/12/2024 Date:	W.B Appr.	AUSTRALIA 74 Platinum Street, Crestmead QLD 4132. PO Box 1581, Browns Plains, Brisbane, QLD, Australia.	Title:	ASSEMBLY DETAILS

5	FLANGED NUT
4	SQUARE WASHER
3	FLANGED BOLT
2	WALL GIRT LAP (SIDE OR END)
1	PORTAL UPRIGHT
ITEM No.	DESCRIPTION
A20	GIRT TO MID LEG - LAP

у	Job No.	SSA9132
	Drawing No.	SSA-AD-08
	Date: 18/12/2024	Approved: Wirtu L. Bayissa
	Scale: N.T.S	Sheet : 16 of 16



NOTES	5.
	DESIGN CRITERIA
	<ul> <li>(REFER ALSO TO NOTES COVERING BASIS OF DRAWINGS &amp; LIMITATIONS)</li> <li>REGION C</li> <li>TERRAIN CATEGORY 2</li> <li>DOOR HEIGHT 3.0M MAX.</li> <li>BUILDING IMPORTANCE = LEVEL 2</li> <li>REGION WINDSPEED VR = 69.3m/s</li> <li>DOORS ARE RATED UP TO AN ULTIMATE DESIGN WIND PRESSURE = 3.26 kPa FOR A MAXIMUM ALLOWABLE CURTAIN WIDTH (L) OF 3150mm.</li> </ul>
	IMITATIONS
	<ul> <li>((REFER ALSO TO NOTES COVERING BASIS OF DRAWINGS AND DESIGN CRITERIA).</li> <li>STEEL ABUTMENT POSTS TO BE 2.4mm (MIN.) IN THICKNESS WITH A MINIMUM STRESS GRADE OF G250 U.N.O.</li> <li>CHARACTERISTIC UNCONFINED COMPRESSIVE STRENGTH OF BLOCK WALL UNIT (f'uc) = 15 MPa (MIN.).</li> <li>CORE FILLING OF BLOCKWALL (f'c) = 15 MPa (MIN.).</li> <li>THE STRUCTURE TO WHICH THE DOOR IS ATTACHED SHALL BE ASSESSED AND CERTIFIED INDEPENDENTLY AS REQUIRED BY A SUITABLY OUTAL FIED ENGINEED</li> </ul>
3.5m •	<ul> <li>A SOIT AGALITED ENGINEER.</li> <li>ALTERNATIVE DESIGN PARAMETERS TO WHAT ARE SPECIFIED ON THESE DRAWINGS ALONG WITH ALTERNATIVE SITE SPECIFIC LOCAL PRESSURE FACTORS MAY BE ADOPTED PROVIDED THE CALCULATED ULTIMATE DESIGN WIND PRESSURES DO NOT EXCEED 3.26 kPa.</li> <li>THE BUILDING DESIGN ENGINEER IS TO ENSURE THAT THE SITE SPECIFIC DESIGN WIND LOADINGS DO NOT EXCEED THE ULTIMATE DESIGN WIND PRESSURE RATING OF 3.26 kPa.</li> <li>DOORS MAY BE POSITIONED AT ANY LOCATION ALONG THE BUILDING ENVELOPE INCLUDING ALL LOCAL PRESSURE ZONES (a) CONFERS OF BUILD DINGED. DED THE CALCULATED DING ENVELOPE INCLUDING ALL LOCAL UNATED</li> </ul>
IN	ULTIMATE DESIGN WIND PRESSURES DO NOT EXCEED 3.26 kPa.
SkPa <u>Notes</u>	S COVERING BASIS OF DRAWINGS
N .	<ul> <li>TEST REPORT NO. TS894 REVISION A (CYCLONE TESTING STATION, SCHOOL OF ENGINEERING AND PHYSICAL SCIENCES, JAMES COOK UNIVERSITY).</li> <li>PRINCIPLES OF MECHANICS.</li> <li>AS/NZS 1170.2:2011 STRUCTURAL DESIGN ACTIONS-PART 2: WIND ACTIONS.</li> <li>AS/NZS 1170.0:2002 STRUCTURAL DESIGN ACTIONS-PART 0:GENERAL PRINCIPLES.</li> <li>AS/NZS 4505:2012 GARAGE DOORS AND OTHER LARGE ACCESS DOORS.</li> <li>AS 4100:1998 STELL STRUCTURES.</li> <li>AS 4100:1998 STELL STRUCTURES.</li> </ul>
FITTED	AS/NZS 1170.12002 STRUCTURAL DESIGN ACTIONS - PART 1: PERMANENT, IMPOSED AND OTHER ACTIONS. AS/NZS 4600:2005 COLD FORMED STRUCTURES.
OUTSIDE	<ul> <li>AS/NZS 1664.1:1997 ALUMINIUM STRUCTURES PART 1: LIMIT STATE DESIGN.</li> <li>AS 1720.1-2010 TIMBER STRUCTURES PART 1:DESIGN METHODS.</li> <li>THE SERIES 1 ROLL-A-DOORS INCLUDE THE FOLLOWING B&amp;D PRODUCT/MODEL NAMES: a) SQUARELINE™ DELUXE ROLL-A-DOOR● (MODEL R1D)</li> <li>B) FIRMADOOR (MODEL R1F)</li> <li>c) ROLLMASTA (MODEL R1R)</li> <li>d) ROLL-A-DOOR™ MINI WAREHOUSE MODEL (MODEL R1M)</li> </ul>
ITTED TO INSIDE	e) ROLL-A-DOOR™ MINI WAREHOUSE (R1ME) ALL DOOR COMPONENTS TO BE IN ACCORDANCE WITH STANDARD B&D SERIES 1 ROLL-A-DOOR MANUFACTURING. DOOR INSTALLATION TO BE IN ACCORDANCE WITH STANDARD

ON, PART	SCALE		DRAWING No.
ND NOTES	DESIGNED	J.E.	S01 к
	DRAWN	AAB	
		AD .	PROJECT No.
ng Structural Engineers	APPROVED		2212
	DATE	Dec 2014	

B&D SERIES 1 ROLL-A-DOOR INSTALLATION GUIDELINES.



	SCALE		DRAWING No.
	DESIGNED J.E		S02 к
	DRAWN AA	AB	PROJECT No.
g Structural Engineers	CHECKED&		2212
	DATE De	c 2014	



GUIDE SUPPORTED BY SOLID CLAY MASONRY WALLS FOR A MAXIMUM DOOR SPAN (L) OF 3150mm. FOR USE IN WIND REGIONS A AND B, TC2 AND UP TO A MAXIMUM DESIGN WIND PRESSURE AS NOMINATED IN TABLE A.

## TABLE A

FASTENING SPECIFICATIONS INTO SOLID CLAY MASONRY ABUTMENTS

WIND REGION	TERRAIN CATEGORY	MAXIMUM DESIGN WIND PRESSURE (kPa)	SPACING (mm)
A	TC2	1.10 kPa	255mm (ie. AT EVERY 3rd BRICK COURSE)
В	TC2	1.77 kPa	170mm (ie. AT EVERY 2nd BRICK COURSE)

## NOTE:

- THE ABOVE FIXING DETAIL HAS BEEN BASED ON A MAXIMUM DESIGN SPAN (L) OF 3150mm. ٠
- THE ABOVE FIXING DETAIL APPLIES TO THE USE OF SOLID CLAY MASONRY UNITS FOR THE CONSTRUCTION OF THE ABUTMENTS. •
- FIXINGS INTO SOLID CLAY MASONRY ABUTMENTS HAVE BEEN DESIGNED USING THE RAMSET-SPECIFIERS RESOURCE BOOK. .
- THE FOLLOWING CODES OF PRACTICE WERE ALSO CONSIDERED IN THE DESIGN OF THE ABOVE FIXING DETAIL: . AS/NZS 1664.1:1997 ALUMINIUM STRUCTURES PART 1: LIMIT STATE DESIGN.

## AS 3700-2001 MASONRY STRUCTURES

$\left  \right $	ISSUE F	DATE 16.06.13	AMENDMENTS GENERAL REVISION	CLIENT B&D AUSTRALIA PTY LTD	DRAWING SERIES 1 ROLL-A-DOOR SUPPORT SECTION DETAIL
	G H	09.07.13 01.11.13	GENERAL REVISION GENERAL REVISION	PROJECT B&D SERIES 1 ROLL-A-DOOR (WINDLOCKED)	James Ellis & Associates
F	к	02.06.14 24.12.14	GENERAL REVISION GENERAL REVISION	FOR USE IN WIND REGION C, TC2	Consultin
Ś					

TABLE B.

## TABLE B

## FASTENING SPECIFICATIONS INTO TIMBER FRAMED ABUTMENTS

WIND REGION	TERRAIN CATEGORY	RAIN CATEGORY MAXIMUM DESIGN WIND PRESSURE (kPa)	
А	TC2	1.10 kPa	250mm
В	TC2	1.77 kPa	160mm
С	TC2	3.26 kPa	90mm

## NOTE:

- •
- PROVIDED BY BUILDEX FASTERNERS.
- BE USED IN HIGHLY CORROSIVE ENVIRONMENTS.
- ABOVE FIXING DETAIL:

THE ABOVE FIXING DETAIL HAS BEEN BASED ON A MAXIMUM DESIGN SPAN (L) OF 3150mm. FIXINGS INTO TIMBER FRAMED ABUTMENTS HAVE BEEN DESIGNED USING TECHNICAL DATA

STAINLESS STEEL TEK SCREWS IN LIEU OF CLIMASEAL® 4 COATED TEK SCREWS ARE TO

THE FOLLOWING CODES OF PRACTICE WERE ALSO CONSIDERED IN THE DESIGN OF THE

AS 1720.1-2010 TIMBER STRUCTURES PART 1:DESIGN METHODS. AS/NZS 1664.1:1997 ALUMINIUM STRUCTURES PART 1:LIMIT STATE DESIGN.

	SCALE		DRAWING No.
	DESIGNED	J.E.	S03 к
	DRAWN	AAB	PROJECT No.
g Structural Engineers	CHECKED& APPROVED	45	2212
	DATE	Dec 2014	



## TABLE C

FASTENING SPECIFICATIONS INTO COLD FORMED STEEL ABUTMENT SUPPORTS COMPLYING WITH AS 1397-1993

THICKNESS (†)mm	GRADE	YIELD STRENGTH	TENSILE STRENGTH	SPACING (mm)
1mm	G550	550 MPa	550 MPa	100mm
1.2mm	G500	500 MPa	520 MPa	125mm
1.5mm	G450	450 MPa	480 MPa	150mm
1.9mm	G450	450 MPa	480 MPa	150mm

ISSUE A	DATE 14.10.13	AMENDMENTS ISSUED FOR CONSTRUCTION	B&D AUSTRALIA PTY LTD	DRAWING SERIES 1 ROLL-A-DOOR SUPPORT SECTION DETAIL
Л	01.11.13 02.06.14	GENERAL REVISION GENERAL REVISION	B&D SERIES 1 ROLL-A-DOOR (WINDLOCKED)	James Ellis & Associates
к	24.12.14	GENERAL REVISION	FOR USE IN WIND REGION C, TC2	Consult

	SCALE		DRAWING No.
	DESIGNED	J.E.	S04 к
	DRAWN	AAB	PROJECT No.
ng Structural Engineers	CHECKED& APPROVED	AN .	2212
	DATE	Dec 2014	

Form 15



This form is to be used by an appointed competent person for the purposes of section 10 of the *Building Act 1975* and sections 73 and 77 of the Building Regulation 2021 (Design-specification certificate) stating that an aspect of building work or specification will, if installed or carried out as stated in this form, comply with the building assessment provisions.

Additional explanatory information is included in the Appendix at the end of this form.

## 1. Property description

This section need only be completed if details of street address and property description are applicable.

E.g. in the case of (standard/generic) pool design/shell manufacture and/or patio and carport systems this section may not be applicable.

The description must identify all land the subject of the application.

The lot and plan details (e.g. SP/RP) are shown on title documents or a rates notice.

If the plan is not registered by title, provide previous lot and plan details.

Street address						
		Suburb/locality				
State	QLD	Postcode				
Lot and plan det	Lot and plan details (attach list if necessary)					
Local government area the land is situated in						

## 2. Description of aspect/s certified

Clearly describe the extent of work covered by this certificate, e.g. all structural aspects of the steel roof beams.

B & D SERIES 1 WINDLOCKED ROLLER DOOR - 3.0m HIGH X 3.15m WIDE MAXIMUM FOR USE IN WIND CLASS C2.

## 3. Basis of certification

Detail the basis for giving the certificate and the extent to which tests, specifications, rules, standards, codes of practice and other publications were relied upon.

Design in accordance with the following SAA codes, drawings, reports, specifications and theory

- Test report no. TS894 Revision A from the Cyclone Testing Station School of Engineering and Physical Sciences at James Cook University
- Principles of Mechanics
- The maximum ultimate wind pressure rating magnitudes for wind class C2 have been based on values as given in Table 5.2 of AS/NZS 4505:2013
- > AS/NZS 1170.2:2011 Structural design actions Part 2: Wind actions
- > AS 4100:1998 Steel structures
- > AS/NZS 1170.0:2002 Structural design actions Part 0: General principles
- > AS/NZS 1170.1 Structural design actions Part 1: Permanent imposed and other actions
- > AS/NZS 4600: 2005 Cold-formed steel structures
- > AS1720.1:2010 Timber structures part 1: Design methods
- AS/NZS 1664.1:1997 Aluminium structures Part 1: Limit state design
- > AS 3700:2001 Masonry structures

- > AS/NZS 4505:2012 Garage doors and other large access doors
- > Ramset Specifiers Resource Book
- > Buildex Fasteners Technical specifications
- > Engineering drawing numbers 2212/S01K, 2212/S02K, 2212/S03K and 2212/S04K (attached)

## Limitations

- For use in wind class C2 and up to a maximum ultimate wind pressure rating as stipulated in Table 5.2 of AS/NZS 4505:2012 (refer also to design criteria on engineering drawings attached)
- This certificate relates to the structural adequacy of the B & D Series 1 wind-locked roller door only. The structure to which the door is attached shall be assessed and certified independently as required by a suitably gualified engineer.
- The subject doors are rated up to an ultimate design wind pressure = 3.26Kpa for a maximum allowable curtain width (L) of 3150mm.
- > The building design engineer is to ensure that the site-specific design wind loadings do not exceed the ultimate design wind pressure rating of 3.26Kpa.
- Alternative design parameters to what are specified on engineering drawings along with alternative sitespecific local pressure factors may be adopted provided the calculated ultimate design wind pressures do not exceed 3.26Kpa.
- Doors may be positioned at any location along the building envelope including all local pressure zones (i.e. corners of buildings) provided the calculated ultimate design wind pressures do not exceed 3.26Kpa.

## 4. Reference documentation

Clearly identify any relevant documentation, e.g. numbered structural engineering plans.

Engineering drawing numbers 2212/S01K, 2212/S02K, 2212/S03K and 2212/S04K by James Ellis & Associates Pty Ltd (attached)

## 5. Building certifier reference number and building development approval number

## 6. Appointed competent person details

Under Part 6 of the Building Regulation a person must be assessed as a competent for the type of work (design-specification) by the relevant building certifier.

Name <i>(in full)</i>	James Christopher Ellis					
Company name (if applicable)	James Ellis & Associates Pty Lte	James Ellis & Associates Pty Ltd				
Contact person	James Ellis					
Business phone number	(02) 8764 1035	(02) 8764 1035 Mobile 0405 149 834				
Email address	james@jamesellisengineers.com	m.au				
Postal address	PO Box 251					
		Suburb/I	ocality	Padstow		
State NSW	Choose an item. Postcode 2211					
Licence class or registration type ( <i>if applicable</i> )	Registered Professional Engineer of Queensland registered in the areas of Civil and Structural					
Licence or registration number ( <i>if applicable</i> )	RPEQ No. 11921					

## 7. Signature of appointed competent person

This certificate must be signed by the individual assessed and appointed by the building certifier as competent to give designspecification help.

Signature Date 14/09/2021

## LOCAL GOVERNMENT USE ONLY

Date received	Click or tap to enter a date.	Reference number/s
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## Appendix – explanatory information

**IMPORTANT NOTE**: it is an offence for a competent person to give a building certifier a document, including this form, that the person knows or reasonably suspects, is false or misleading.

Who can complete this certificate? (sections 10 of the *Building Act 1975* (Building Act) and 73 of Building Regulation 2021 (BR 2021))

A building certifier can accept from a competent person (design – specifications) a certificate stating that the competent person has assessed the building design or specification for the aspect of building work, and it will, if installed or carried out under the certificate, comply with the building assessment provisions, including any relevant standards and codes.

Schedule 10 of the BR 2021 defines *building design or specification* as any material, system, method of building or other thing related to the design of or specifications for building work.

For a competent person to meet the regulation requirements (section 77 of the BR 2021) they must substantially complete all sections of this form, including information, such as the design of a particular material, system, method of building or that a building element complies with the Building Code of Australia or a provision of the Queensland Development Code. It is also important that the details of the relevant reference documents are included, for example, the applicable Australian Standards or other technical provisions that may be applicable to the subject work.

## What is the purpose of this form? (section 10 of the Building Act 1975)

The information in this form informs the building certifier's decision making when they are assessing a building development application and issuing the building development approval for the building work the subject of the certificate (form).

## When is this form not required?

The assessment of some building applications will be entirely within the expertise of the relevant building certifier and therefore they may not seek the help of a competent person. In these instances, this form is not required.

## Is a manufacturer or supplier required under the BR 2021 to complete and sign this Form 15, if requested?

**No**. A manufacturer or supplier of building materials is not required to complete and give this form or any aspect and inspection certificates if requested by a construction contractor, builder, appointed competent person, or a building certifier.

However, a manufacturer or supplier <u>may give</u> the construction contractor, builder, competent person or the building certifier evidence of suitability such as a manufacturers statement for an aspect or material that it is compliant with the relevant reference documents in the BCA i.e. the applicable Australian Standard/s.

## What if there is not enough space for all the supporting material/documents?

Items 2, 3 and 4 requires the competent person to clearly identify the extent of the assessment that was undertaken for aspect/s of work identified in this form.

For instance, there is provision for material such as specifications, standards, codes or other relevant publications to be referenced in the form. However, if the space in the form is not sufficient to accommodate all of this material, you can create and refer to additional material in an addendum or attachment to the form.

The form is also available in a Microsoft Word version, that you can download and edit to include additional material in the relevant parts of the form. **Note**: that editing the form in the Microsoft Word version may cause the relevant boxes to expand and increase the length of the document. This is acceptable and does not change the approved form, provided the section text (description on the left-hand side of the page) is not altered.

## Appointed competent person (design or specification) - (sections 34 and 36 of the BR 2021)

A building certifier must assess and decide to appoint an individual as a competent person before they can, as a competent person, give design-specification help. The building certifier is required to keep detailed records about what was considered when appointing a competent person.

A building certifier must be satisfied that an individual is competent to give the type of inspection help having regard to the individual's experience, qualifications and skills and if required by law to hold a licence or registration, that the individual is appropriately registered or licensed.

An individual is appointed as competent to give design-specification help on or from a particular day. The building certifier can also decide an individual is a competent person (design-specification) and a competent person (inspection) at the same time or for the same systems or components of the work.

For further information about assessment of someone as a competent person refer to the **Guideline for the assessment of** competent persons.

## PRIVACY NOTICE
The Department of Energy and Public Works is collecting personal information as required under the *Building Act 1975*. This information may be stored by the Department, and will be used for administration, compliance, statistical research and evaluation of building laws. Your personal information will be disclosed to other government agencies, local government authorities and third parties for purposes relating to administering and monitoring compliance with the *Building Act 1975*. Personal information will otherwise only be disclosed to third parties with your consent or unless authorised or required by law.