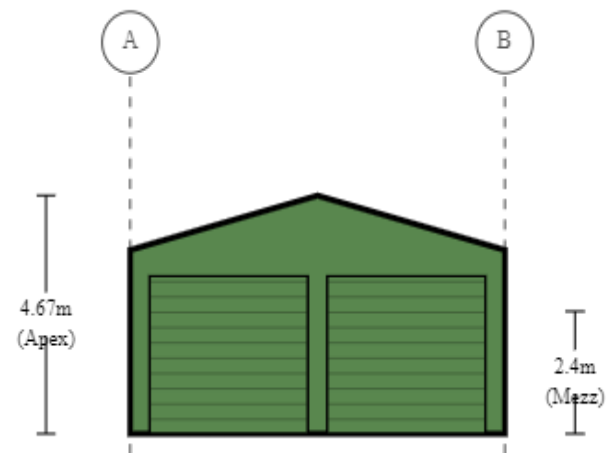
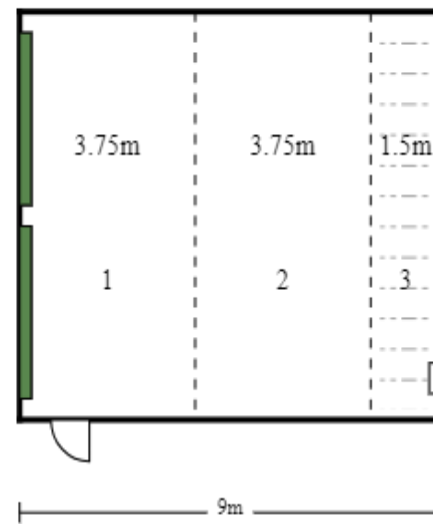


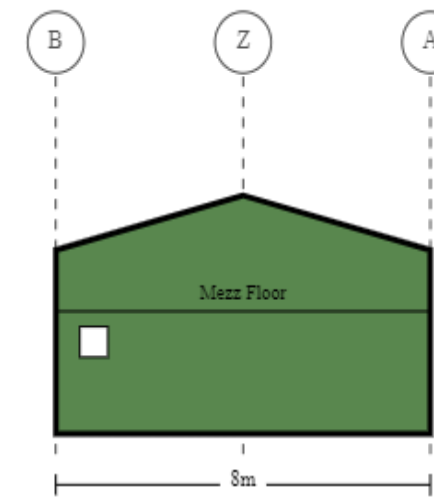
Left Side



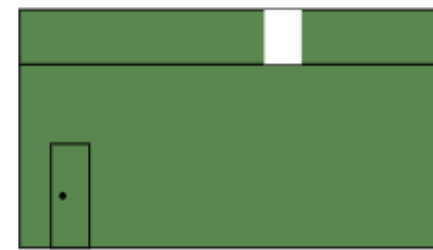
Left End



Right Side



Right End



Purchaser Name: Jane & Mario Bergamin

Site Address: 35 Allports Beach Road Erita TAS 7255 Australia

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Layout
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QLD : RPEQ No. 24223; TAS : 185770492; VIC : PE0003848; N.T : 303557ES;
Practising Professional Structural & Civil Engineers

Signature: 

John Ronaldson

Date: 11/08/23

GENERAL NOTES

These documents show the general arrangement of the building and include some items not supplied (refer to the quotation for nomination of all items to be provided). All items not nominated therein shall be supplied and installed by others.

The plans provided here are the latest at the time of print. Earlier plans provided may have become outdated due to engineering changes and should not be used. The plans and drawings are extensive and give all the information needed for a competent person to erect the building. The building is not designed to stand up by itself when it is partially complete. Consequently, construction bracing is critical during erection.

The owner has been requested to check off the BOM after the building delivery. You should check that you are able to locate all materials nominated in the BOM. You should also confirm that the length and size (including thickness), nominated in the BOM is what has been provided. Any missing items are the responsibility of the client once correct delivery has been confirmed as per Terms and Conditions of Sale.

DESIGN CRITERIA

These building plans have been prepared to comply with the standards nominated in the engineer's letter. All plans are not to Scale.

ADDITIONAL DOCUMENTATION TO BE SUPPLIED BY PURCHASER/OWNER

The Purchaser/Owner is responsible for:

*Provision of Soils Report for the site and in the building area on which the building is to be erected

*Site Plan and Drainage Plans

*Any other plans not covered by these engineering plans requested by the local Council or the authority

RAINWATER AND DRAINAGE

All Rainwater and drainage designs are the responsibility of the purchaser/owner. Residential gutters and downpipes where supplied are based on average rainfall for the state and may not be sufficient for your building size or usage. Please speak to your building designer or contractor to ensure gutters are fit for purpose.

BUILDING CONSTRUCTION REQUIREMENTS

The Builder and Purchaser are to ensure that all construction is carried out in accordance with the Plans, the Construction Manual and the Bill of Materials (BOM).

It is the responsibility of the builder to ensure that they are familiar with the operational risks and their obligations in carrying out construction work.

The builder must ensure that they have an appropriate Health & Safety Plan (The Plan) compliant with and as required by their local, state and federal regulations. The Plan will need to take into account the site conditions, the size of the building and the experience of the construction personnel. The Plan will, most likely, differ for each project.

The builder must ensure that The Plan is adhered to. Particular attention should be paid to the requirements to ensure that any person working at heights are properly trained and following the requirements as set out by The Plan.

It is recommended that you check with the appropriate authority in your area as to your responsibilities.

TEMPORARY SUPPORT, LIFTING AND SHORING

The design of temporary propping shoring, lifting and support during construction has not been undertaken and is not included in our engagement. This work is the responsibility of the Contractor undertaking the construction of the building.

SLAB AND/OR PIER DETAILS - GENERAL

* The minimum size of Piers under the columns and End Wall Mullions are nominated on the Material Specifications Plan. When the slab and piers are poured as one pour, the depth of the pier is to the top of the slab.

* Pier Reinforcement: for any piers over 1100mm, deformed bar to within 100mm of base and minimum 75mm top cover. Minimum side cover 75mm, maximum 100mm. Rod to be caged horizontally at least twice and at a maximum of 300mm spacing. Tie with a minimum of 6mm diameter cage tie. Where pier diameter is less than 450mm diameter, use 4 N12. For diameters equal to and over 450mm, use 4 N16.* Column supports for mezzanine bearer internal support columns are not shown and should be of the same size and spacing as the end wall mullion piers.

* Where columns or end wall mullions have been removed, piers are not required.

* End wall mullion spacing may move due to location of openings or doors. Check layout and component position plan, and relocate piers as required.

* The Slab Plan indicates those parts of the slab which are 50mm below main slab/piers.

* Footings and slabs, including internal and edge beams, must be founded on natural soil with a minimum allowable bearing capacity of 100kPa. Design covers soil classifications of A, S, M, H1 or H2 for a class 10 building.

* The footing designs have been calculated with adhesion values of 0kPa, 25kPa and 50kPa for clay soils and dense sand soils only.

* A site specific geotechnical investigation has not been performed. The builder will need to verify the soil type and conditions.

* Site conditions different to those specified require a modified design.

* Sub grade shall be excavated and compacted to a minimum of 100% standard dry density ratio and within 2% of the OMC to comply with AS2159.

* Designs are in accordance with AS 3600:2018

* All concrete to be in accordance with AS 3600:2018. Minimum 25 Mpa, with 80mm slump.

* Concrete should be cured for 7 days before commencing construction of the building.

Concrete Slab

For Class A, S or M Sites

* Slab thickness to be a minimum of 100mm with SL 72 mesh and 40mm top cover.

* Concrete piers under Roller Doors Jambes and Mezzanine Mid posts to be a minimum size as below:

C15024 - 300mm dia x 375mm deep, centered to the C Section

C20015 - 450mm dia x 400mm deep, centered to the C Section

Where heavy traffic is to go through the roller doors, it is recommended that the slab edge should be thickened to 200mm deep by 300mm wide for the length between the mullions. Place an additional section of SL 72 mesh, 50mm from the base in all thickenings.

For Class H1 or H2 Sites

* Slab thickness to be a minimum of 100mm with SL 82 mesh and 40mm top cover.

* Perimeter beams 550mm deep x 300mm wide with Y12 3 bar Trench Mesh to the perimeter of the building.

* Internal beams 550mm deep by 300mm wide with Y12 3 bar Trench Mesh at a max spacing of 4m.

* Concrete piers under Roller Doors Jambes and Mezzanine Mid posts to be a minimum size as below:

C15024 - 300mm dia x 500mm deep, centered to the C Section

C20015 - 450mm dia x 500mm deep, centered to the C Section

Concrete Piers Only

For Class A, S or M Sites

* Concrete piers under Roller Door Jambes and Mezzanine Mid posts to be a minimum size as below:

C15024 - 300mm dia x 750mm deep, centered to the C Section

C20015 - 450mm dia x 800mm deep, centered to the C Section

For Class H1 or H2 Sites

* Concrete piers under Roller Door Jambes and Mezzanine Mid posts to be a minimum size as below:

C15024 - 300mm dia x 1000mm deep, centered to the C Section

C20015 - 450mm dia x 1000mm deep, centered to the C Section

SHEETED PORTALS AND MULLIONS


All end wall mullions provide critical support to portal frames and cannot be repositioned or removed under any circumstances without engineering approval.

BRACING NOTES

* Refer to Connection Details.

* All Cross Bracing is achieved with 1.2mm Strap G450.

* Cross bracing is to be fixed taut and secured with 14.20 x 22 frame screws at each end, quantity as per connection details.

Revision	Date	Initial			General Notes	Seller: Sheds n Homes Launceston Name: Segel Pty Ltd Phone: 0437 120 410 Fax: Email: ian.thomson@shedsnhomes.com.au	Apex Engineering Group PTY LTD ACN 632 588 562 MIE Aust. (Registered NER Structural) 5276680 QLD : RPEQ No. 24223; TAS : 185770492; VIC : PE0003848; N.T : 303557ES; Practising Professional Structural & Civil Engineers Signature:  John Ronaldson Date: 11/08/23		
			Purchaser Name: Jane & Mario Bergamin						
			Site Address: 35 Allports Beach Road Emita TAS 7255 Australia						
			Drawing # SLAN234024 - 0	Print Date: 11/08/2023				Page 1 of 2 ©Copyright Steelx IP Pty Ltd	

* Fly bracing to be fixed to the purlins/girts on all mid portal rafters, columns and end wall mullions. Fly bracing is to be fitted to every second purlin/girt, or, on every one, where the spacing between fly braces would exceed the maximum specified below for the relevant column/rafter size:

- C150 - maximum 1800mm spacing
- C200, C250 - maximum 2200mm spacing
- C300 - maximum 2800mm spacing
- C350 - maximum 2800mm spacing
- C400 - maximum 2800mm spacing

Initial measurement is from the haunch of the column/rafter, and from the rafter for any end wall mullions.

* Where windows/GSD are placed in any bay where cross bracing is shown, then

a) this can be replaced by moving the bracing to another bay OR

b) due to the bracing provided by the window jambs, where space permits, bracing should be placed under and over the window.

* All bracing strap ends to be located as close as practical to structural member's (columns, rafters, mullions) centerline.

BOLTS

* Unless otherwise nominated, all bolts are grade 4.6

* All tensioned bolts shall be tensioned using the part turn method (refer to AS4100). For the erector, full details are in the construction manual.

ROLLER DOORS

All roller doors are NOT wind rated. All comments regarding roller doors are referenced from inside the building looking out.


OTHER MATERIALS NOTES

* All Sheeting, Flashing and framing screws are Climaseal 4.

* All purlin material has Z350 zinc coating with minimum strength of 450MPa.

MEZZANINE FLOOR

Allowable floor load is 1.5kPa uniformly distributed. (Suitable for General Storage up to 600mm high or in a self contained dwelling, general area, private kitchens etc.- No concentrated loads)

Revision	Date	Initial	Purchaser Name: Jane & Mario Bergamin		General Notes Page 2 of 2 ©Copyright Steelx IP Pty Ltd	Seller: Sheds n Homes Launceston Name: Segel Pty Ltd Phone: 0437 120 410 Fax: Email: ian.thomson@shedsnhomes.com.au	Apex Engineering Group PTY LTD ACN 632 588 562 MIE Aust. (Registered NER Structural) 5276680 QLD : RPEQ No. 24223; TAS : 185770492; VIC : PE0003848; N.T : 303557ES; Practising Professional Structural & Civil Engineers Signature:  John Ronaldson Date: 11/08/23
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MATERIAL SPECIFICATIONS

For further information regarding the tabulated values shown, refer to the General Notes

Building Dimensions

Categories	Span	Length	Pitch	Height	Grid(s)	Portal(s)
Main Building	8	9	15	3.6	A - B	1 - 4

Portal Frame Elements

Grid / Portal Number		1	2	3	4
Columns	A	C15019	C20019	C20019	C15015
	B	C15019	C20019	C20019	C15015
Rafters	A - Apex	C15015	C20019	C15024	C15012
	Apex - B	C15015	C20019	C15024	C15012
End Wall Mullions	Z	-	-	-	C15012
Apex Braces	Apex	-	C15015 @ 2.4m	C15012 @ 2.4m	-
Mezz Bearers	A - B	-	-	C20015	C20015
Mezz Bearer Support	A	-	-	C20019	-
	Z	-	-	C20015	C20015
	B	-	-	C20019	-

Bay Section Elements

Grid / Bay Number		1	2	3	Maximum
Bay Widths		3.75	3.75	1.5	
Roof Purlins (refer to Purlin And Girt Plan)		TH64	TH64	TH64	
Roof Purlin Spacing (End)	A - Apex	0.9	0.9	0.9	0.900
	Apex - B	0.9	0.9	0.9	0.900
Roof Purlin Spacing (Internal Spans)	A - Apex	1.146	1.146	1.146	1.200
	Apex - B	1.146	1.146	1.146	1.200
Eave Purlin	A	XC15012	XC15012	XC15012	
	B	XC15012	XC15012	XC15012	
Side Girts (refer to Purlin And Girt Plan)		TH64	TH64	TH64	
Side Girts Spacing (End)	A	1.123	1.123	1.123	1.700
	B	0.674	0.674	0.674	1.700
Side Girts Spacing (Internal)	A	1.123	1.123	1.123	1.700
	B	0.674	0.674	0.674	1.700
Mezz Floor Joists	A - B	-	-	Z15012	
PA Door Header	B	C10010	-	-	
PA Door Jambs	B	C10012	-	-	

End Bay Section Elements

Grid / Portal Number		1	4	Maximum
End Girts (refer to Purlin And Girt Plan)		TH64	TH64	
End Girts Spacing (End)	A - B	1.685	-	1.700
	A - Z	-	0.842	1.700
	Z - B	-	0.842	1.700
End Girts Spacing (Internal)	A - B	1.685	-	1.700
	A - Z	-	0.842	1.700
	Z - B	-	0.842	1.700
Roller Door Header	A - B	HEADER1	-	
	A - Z	-	-	
	Z - B	-	-	
Roller Door Jambs	A - B	C15024	-	
	A - Z	-	-	
	Z - B	-	-	

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Specification Sheet

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Practising Professional Structural & Civil Engineers

Signature:  John Ronaldson
Date: 11/08/23

MATERIAL SPECIFICATIONS

For further information regarding the tabulated values shown, refer to the General Notes

Roller Door & PA Door

Door Location	LeftEnd 1	LeftEnd 1	RightSide 1
Roller Door Size	3.09x3.38	3.09x3.38	~
Roller Door Header	HEADER1	HEADER1	~
Roller Door Jamb	C15024	C15024	~
Roller Door Clip Config	0 clip	0 clip	~
Roller Door Manufacturer	TAUREAN	TAUREAN	~
PA Door Header	~	~	C10010
PA Door Jamb	~	~	C10012
PA Door	~	~	2.040 x 0.820 - Lardec Shed Door 180° (650.37)
PA Door Manufacturer	~	~	LARNEC

Cladding Elements

Category	Colour	Product
Roof Sheeting	COLORBOND® steel	CORODEK® 0.42 BMT (0.47TCT)
Roof Flashings	COLORBOND® steel	BlueScope 0.55 BMT
Wall Sheeting	COLORBOND® steel	TRIMCLAD® 0.42 BMT (0.47TCT)
Wall Flashing	COLORBOND® steel	BlueScope 0.55 BMT

Pier Sizes

Adhesion (kPa)	Soil Description	Diameter (m)	Depth (m) - when NO Slab				Depth (m) - with Slab			
			BP1	BP2	BP3	BP4	BP1	BP2	BP3	BP4
0	Sandy Soil	0.3	1.6	-	-	1.3	1	-	-	0.6
		0.45	1.1	1.6	1.4	1	0.5	0.7	0.45	0.45
		0.6	0.9	1.2	1.1	0.7	0.45	0.45	0.45	0.45
25	Soft to Firm Clay	0.3	0.9	-	-	0.8	0.6	-	-	0.5
		0.45	0.9	1.1	1	0.8	0.5	0.7	0.45	0.45
		0.6	0.9	1.1	1	0.7	0.45	0.45	0.45	0.45
50	Stiff to Very Stiff Clay	0.3	0.9	-	-	0.8	0.6	-	-	0.5
		0.45	0.9	1	1	0.8	0.5	0.7	0.45	0.45
		0.6	0.9	1	1	0.7	0.45	0.45	0.45	0.45


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