

# NOTICE OF PROPOSED DEVELOPMENT

Notice is hereby given that an application has been made for planning approval for the following development:

# SITE: 3 Linden Road, Primrose Sands

# PROPOSED DEVELOPMENT: DWELLING

The relevant plans and documents can be inspected at the Council Offices at 47 Cole Street, Sorell during normal office hours, or the plans may be viewed on Council's website at <u>www.sorell.tas.gov.au</u> until **Tuesday 28<sup>th</sup> January 2025**.

Any person may make representation in relation to the proposal by letter or electronic mail (<u>sorell.council@sorell.tas.gov.au</u>) addressed to the General Manager. Representations must be received no later than **Tuesday 28<sup>th</sup> January 2025.** 

APPLICANT: Woolcott Land Services

APPLICATION NO: DA 2024 / 322 - 1 DATE: 09 January 2025

#### Part B: Please note that Part B of this form is publicly exhibited.

Full description of Proposal:	Use:	
	Development:	
	Large or complex proposals should be described in a letter or planning report.	
Design and const	ruction cost of proposal:	\$

Is all, or some the work already constructed:

No: 🗌 Yes: 🗌

Location of	Street address:
proposed works:	Suburb: Postcode:
	Certificate of Title(s) Volume: Folio:

Current Owner/s:	Name(s)
---------------------	---------

Is the Property on the Tasmanian Heritage Register?	No: 🗆 Yes: 🗆	If yes, please provide written advice from Heritage Tasmania
Is the proposal to be carried out in more than one stage?	No: 🗆 Yes: 🗆	If yes, please clearly describe in plans
Have any potentially contaminating uses been undertaken on the site?	No: 🗆 Yes: 🗆	If yes, please complete the Additional Information for Non-Residential Use
Is any vegetation proposed to be removed?	No: 🗌 Yes: 🗌	If yes, please ensure plans clearly show area to be impacted
Does the proposal involve land administered or owned by either the Crown or Council?	No: 🗆 Yes: 🗆	If yes, please complete the Council or Crown land section on page 3
If a new or upgraded vehicular crossing is required from Council to the front boundary please		
complete the Vehicular Creasing (and Associated Merks) explication form		

complete the Vehicular Crossing (and Associated Works) application form

https://www.sorell.tas.gov.au/services/engineering/

# Sorell Council

Development Application: 5.2024.322.1 -Development Application - 3 Linden Road, Primrose Sands - P1.pdf Plans Reference:P1 Date Received: 29/11/2024

#### Declarations and acknowledgements

- I/we confirm that the application does not contradict any easement, covenant or restriction specified in the Certificate of Title, Schedule of Easements or Part 5 Agreement for the land.
- I/we consent to Council employees or consultants entering the site and have arranged permission and/or access for Council's representatives to enter the land at any time during normal business hours.
- I/we authorise the provision of a copy of any documents relating to this application to any person for the purposes of assessment or public consultation and have permission of the copyright owner for such copies.
- I/we declare that, in accordance with s52(1) of the Land Use Planning and Approvals Act 1993, that I have notified the owner(s) of the intention to make this application.
- I/we declare that the information in this application is true and correct.

Details of how the Council manages personal information and how you can request access or corrections to it is outlined in Council's Privacy Policy available on the Council website.

- I/we acknowledge that the documentation submitted in support of my application will become a public record held by Council and may be reproduced by Council in both electronic and hard copy format in order to facilitate the assessment process, for display purposes during public exhibition, and to fulfil its statutory obligations. I further acknowledge that following determination of my application, Council will store documentation relating to my application in electronic format only.
- Where the General Manager's consent is also required under s.14 of the *Urban Drainage Act 2013*, by making this application I/we also apply for that consent.

Applicant Signature:

Signature:

#### Crown or General Manager Land Owner Consent

..... Date: .....

If the land that is the subject of this application is owned or administered by either the Crown or Sorell Council, the consent of the relevant Minister or the Council General Manager whichever is applicable, must be included here. This consent should be completed and signed by either the General Manager, the Minister, or a delegate (as specified in s52 (1D-1G) of the *Land Use Planning and Approvals Act 1993*).

Please note:

- If General Manager consent if required, please first complete the General Manager consent application form available on our website <u>www.sorell.tas.gov.au</u>
- If the application involves Crown land you will also need a letter of consent.
- Any consent is for the purposes of making this application only and is not consent to undertaken work or take any other action with respect to the proposed use or development.

Ι		being responsible for the
administration of land at		Sorell Council
declare that I have given permiss	Development Application: 5.2024.322.1 - Development Application - 3 Linden Road, Primrose Sands - P1.pdf Plans Reference:P1 Date Received: 29/11/2024	
Signature of General Manager, Minister or Delegate:	Signature:	Date:



**Onsite Wastewater System Design** 

# 3 Linden Road Primrose Sands

July 2024



Development Application: 5.2024.322.1 -Development Application - 3 Linden Road, Primrose Sands - P1.pdf Plans Reference:P1 Date Received: 29/11/2024

#### Important Notes:

The author, Strata Geoscience and Environmental, gives permission for this report to be copied and distributed to interested parties only if it is reproduced in colour and in full including all appendicies. No responsibility is taken for the contents and recommendations of this report if it is not reproduced as requested.

Strata Geoscience and Environmental reserves the right to submit this report the relevant regulatory agencies where it has a responsibility to do so.

## 1. Introduction

Strata Geoscience and Environmental Pty Ltd was commissioned to conduct an onsite wastewater system design for:

	Client and Site Details
Client Name	Tasbuilt
Site Address	3 Linden Road Primrose Sands
Proposed Development	New system for new dwelling

The investigation was conducted with reference to Australian Standards AS1547-2012 Onsite Domestic Wastewater Management and also follows the principles outlined in AS1726-1993 Geotechnical Site Investigations.

## 2. Summary of Site and Soil Evaluation and Design Outcomes

	SSE and Design Outcomes	
General Comments	Site suitable for disposal of secondary treatment	
Key Site and Soil	Shallow soils	
Limitations to System	Surface waters	
Design	Slope	
	<ul> <li>Rocky shallow profiles</li> </ul>	
Summary of Proposed	Primary Treatment: AWTS	
System Specification	Secondary Treatment: AWTS	
	Land Application: Subsurface Irrigation	

The investigation's key findings were:

### 3. Investigation

Please refer to Appendix 3 for Site and Soil Evaluation results.

## 4. Interpretation

The site is situated on a moderate slope underlain by inferred rocky shallow clays derived from Jurassic Dolerite.

With respect to the sustainability of long term disposal of wastewater within the site boundaries the following comments are made:

**Soils** – Natural soils will have a low permeability for the acceptance of wastewater flows and will show a high cation exchange complex for the absorption of nutrients from effluent

**Environmental Sensitivities** – The development area is moderately sloping with nearest surface water body located approximately 50+ m downslope of the dwelling. Groundwater was not intersected throughout geotechnical investigation and is anticipated to be several meters beneath the existing ground surface however it may flow over clayey subsoils as a perched watertable throughout wet periods.

*Climate* - the nearest weather station with long term data is Dodgers Ferry Station with a mean annual rainfall of 512 mm (BOM 2024) and no evaporation data.

*Title Searches* – Searches of the Land Title did not show any easements or right of ways which would affect the positioning of the wastewater land application system.

Given the above, the general environmental and public health risk associated with the site is regarded as low provided adequate setback distances and other controls are adopted.

4

## 5. Onsite Wastewater System Design

### 5.1 Site and Soil Considerations

Results of the SSE (Appendix 3) found the following typical soil profile on site:

	Topsoils (A1-A3)	Subsoils (B1-B3)
Description	CLAYEY SILT (ML)	Silty CLAY (CL)
Soil Category (AS1547-	1	5
5882)		
Indicative Permeability	1.5-2.0	0.1-0.5
(m/d)		
Recommended DIR	5/40	3 /12
(mm/d)/DLR (L/D)		
рН	6.1	5.8
EC	2.2	4.2
Emmerson Class	8	5

### 5.2 Risk Management of Site and Soil Constraints

Risk identification and reduction measures compliant with AS1547 – 2012 Clause A3.2 is presented below:

Risk	Factors that	Design Risk Reduction
	Increase Risk	Measures
	Likelihood	
Hydraulic	Under scaled	Scale to peak potential
Overloading of	system	loading
System	<ul> <li>Prolonged</li> </ul>	Use Conservative DLR/DIR
	overuse	Use water conservation
	<ul> <li>Leaking taps</li> </ul>	practices eg water reduction
	<ul> <li>Shock Loading</li> </ul>	fixtures
	Excessive solid	
	disposal	
Biological	Overuse of	Limit detergents and bleach
Failure	household	use where practical
	chemicals	System not fit for sinkerator
	<ul> <li>Shock loading</li> </ul>	installation
Marginal Soil	Dispersive soils	Treat with gypsum, manage
Conditions	Poor	sodium inputs
	aspect/drainage	
Site Constraints	<ul> <li>Rocky shallow</li> </ul>	Irrigation
	clays	Irrigation on flatter areas
	<ul> <li>Slope</li> </ul>	where possible
	Proximal	<ul> <li>secondary treatment,</li> </ul>
	sensitive	subsurface irrigation,
	receivers	maintain maximum
		available setback

Risk	Factors that	Design Risk Reduction
	Increase Risk	Measures
	Likelihood	
High	<ul> <li>Inappropriate</li> </ul>	Use suitable hydraulic
Rainfall/Torrenti	LAA Scaling	scaling
al Rainfall	Stormwater	Stormwater Diversion
	impacts	around LAA if required
Clogged Outlet	Overloading	Clean monthly
Filter	<ul> <li>Infrequent</li> </ul>	
	cleaning	
Pipe Blockages	Overloading	Reduce solids inflows
	<ul> <li>Infrequent de-</li> </ul>	De-sludge septic max 3
	sludging	year intervals
		Check IO's regularly
Sludge	Infrequent de-	De-sludge septic max 3
transport to LAA	sludging	year intervals
	<ul> <li>Clogged outlet</li> </ul>	Clean filter monthly
	filter	No sinkerator installation
	High organic	
	loading	
Broken pipes in	Stock/vehicles	Exclude stock/vehicles
LAA		

#### 5.3 Proposed Wastewater System Concept Design

Treatment Train Component	Proposed Concept Design
Primary Treatment	AWTS
Secondary Treatment	AWTS
LAA Design	SUBSURACE IRRIGATION

It is therefore recommended that the following system be adopted:

#### 5.4 Effluent Flow and Land Application Area Modelling

The development proposal is for the construction of a new wastewater system to service the proposed 3 bedroom equivalent house on tank water with standard water savings fixtures. Therefore under AS1547-2012 the calculated effluent flows and required disposal area is as follows:

Wastewater System Modelling			
Number of Proposed Bedrooms	3		
Number of Equivalent Persons	5		
Water Source (Tank/Mains)	Tank		
Daily Loading (L/per person/D)	120		
Total Daily Loading (L/D)	600		
Adopted Soil Category (AS1547-5882)	5		
Indicative Permeability (m/d)	0.3		
Adopted DLR/DIR (mm/d OR L/m <sup>2</sup> /d)	3		
Required LAA (m <sup>2</sup> )	200		

The absorption area could be catered for by  $200 \text{ m}^2$  subsurface Irrigation installed as shown on the site plan with adequate room for a 100% reserve if required (see Appendix 2). Refer to Appendix 2/3 for more detailed calculations as well as specific design and construction notes.

### 5.5 System Specifications

The system has the following specification (see Appendix 3 for further details):

- Min DN100 gravity fed sewer pipe
- Min 1200 L/day treatment capacity AWTS
- Min 200 m<sup>2</sup> Subsurface Irrigation
- Provision for 100% reserve area (must remain free from development)

#### 5.6 Management Requirements

It is imperative that regular servicing of the treatment unit compliant with the prescriptions of the manufacturer and Council permit occur.

To ensure that the treatment system functions adequately and provides effective treatment and disposal of effluent over its design life, asset owners have the following responsibilities:

- Suitably qualified maintenance contractors must be engaged to service the system, as required by Council under the approval to operate.
- Keep as much fat and oil out of the system as possible; and
- Conserve water.

Minimum servicing schedule:

Service Interval
<ul> <li>INSPECT AND SERVICE QUARTERLY, MAINTAIN RECORDS</li> </ul>

To ensure that the land application area (LAA) functions adequately and provides effective treatment and disposal of effluent over its design life, asset owners have the following responsibilities:

- LAA should be checked regularly to ensure that effluent is draining freely, including flushing of lines and cleaning of inline filters.
- All vehicles, livestock and large trees should be excluded from around the irrigation area.
- Low sodium/phosphorous based detergents should be used to increase the service life of irrigation area.

- Regularly harvest (mow) vegetation within the LAA and remove this to maximise uptake of water and nutrients;
- Not to erect any structures over the LAA;
- Ensure that the LAA is kept level by filling any depressions with good quality topsoil (not clay).

Excessive surface dampness, smell or growth of vegetation around the LAA may indicate sub-optimal performance and professional advice should be sort.

#### **5.7 Compliance Requirements**

The setbacks as indicated on the site plan conform with Acceptable Solutions or Performance Criteria for setback distance outlined in the Tasmanian Building Code 2016.

Acceptable Solutions	Performance Criteria	Compliance
A1 Horizontal separation distance from a building to a land application area must comply with one of the following: a. be no less than 6m: b. be no less than: (i) 2m from an upslope or level building. (ii) If primary treated effluent to be no less than 4m plus 1m for every degree of average gradient from a downslope building (iii) If secondary treatment and subsurface application, no less than 2m plus 0.25m for every degree of average gradient from a downslope building	P1 a. The land application area is located so that the risk of wastewater reducing the bearing capacity of the buildings foundations is acceptably low	Complies with b(i)
A2 Horizontal separation distance from downslope water to a land application area must comply with (a) or (b). a) be no less than 100m b) be no less than 100m b) be no less than the following: i) If primary treated effluent to be no less than 15m plus 7m for every degree of average gradient from a downslope surface water, or; ii) if secondary treatment and subsurface application, no less than 15m plus 2 m for every degree of average gradient from a downslope surface application, no less than 15m plus 2 m for every degree of average gradient from a downslope surface water	<ul> <li>P2</li> <li>Horizontal separation distance from downslope water to a land application area must comply with all of the following: <ul> <li>a) Setbacks must be consistent with AS/NZS 1547 Appendix R</li> <li>b) A risk assessment in accordance with Appendix A of AS/NZS 1547 has been completed that demonstrates that the risk is acceptable</li> </ul> </li> </ul>	Complies with A2 (bii)
A3 Horizontal separation distance from a property boundary to a land application area must comply with either of the following:	P3 Horizontal separation distance from the boundary to a land application area must comply with all of the following:	Complies with A3 (B) (I and III)

# Site and Soil Evaluation and Onsite Wastewater System Design 3 Linden Road Primrose Sands

a) be no less than 40m from a	a) Setbacks must be consistent with	
property boundary	AS/NZS 1547 Appendix R. and	
b) be no less than	b) A risk assessment in accordance	
(i) 15m from an unslope or level property	with Appendix A of AS/NZS 1547	
	has been completed that	
(ii) if <u>primary treated effluent</u> 2m fo		
downsiope property boundary, of		
(iii) if <u>secondary treated effluent</u> and	acceptable	
every degree of average gradien		Complies with A4
Herizontal concration distance from a	Herizontal apparation distance from a	
	devrelance have to a land application area	
downsiope bore, well or similar water supply	downsiope bore to a land application area	
to a land application area must be no less	must comply with all of the following:	
than 50m and not be within the zone of	a) Setbacks must be consistent with	
influence of the bore whether up or down	AS/NZS 1547 Appendix R, and	
gradient	b) A risk assessment in accordance	
	with Appendix A of AS/NZS 1547	
	has been completed that	
	demonstrates that the risk is	
	acceptable	
A5	P5	Complies with A5
Vertical separation distance between	Vertical separation distance between	
groundwater and a land application area	groundwater to a land application area	
must be no less than 1.5m	must comply with all of the following:	
	a) Setbacks must be consistent with	
	AS/NZS 1547 Appendix R and	
	h) A rick appagament in appardance	
	b) A fisk assessment in accordance	
	with Appendix A of AS/NZS 1347	
	has been completed that	
	demonstrates that the risk is	
	acceptable	
A6	P6	Complies with A6
Vertical separation distance between a	Vertical setback must be consistent with	
limiting layer and a land application area must	AS/NZS 1547 Appendix R,	
be no less than 1.5m		
A7	P7	Complies with A7(a/b)
The arrangement of a land application		
area must comply with both of the following:	No performance criteria	
(a) not include areas beneath buildings, driv		
(b) nave a minimum norizontal dimension of		

## 6. Conclusions and Further Recommendations

In conclusion the following comments and recommendations are made:

- The maximum wastewater flow rate (MWWF) modelling conducted in this report shows that the generated flows are likely to be no more than 600 L/day.
- That such flows will require a land application area (LAA) comprising one 200 m<sup>2</sup> Subsurface Irrigation.
- It is likely that peak flows associated with the development should be within the buffering capacity of the system both in terms of the system sizing as well as for their acceptance into the disposal area.
- If the hydraulic capacity of soils underlying disposal areas is exceeded by effluent water flows, the disposal area has the capacity to be increased by up to 100%.
- If the prescriptions of this report are followed the likely human and environmental health risks associated with effluent disposal onsite is rated as low.

S Nielsen MEngSc CPSS Director Strata Geoscience and Environmental Pty Ltd E:sven@strataconsulting.com.au



## 7. References

- AS1726-1993- Geotechnical Site Investigations
- AS1547-2012 Onsite Domestic Wastewater Management
- Bureau of Meteorology Website- Monthly Climate Statistics

### Appendix 1 Wastewater Loading Certificate

Wastewater Loading Certificate*			
System Capacity	5EP at 120L/person/day = 600L/D		
Design Summary			
Effluent Quality	Secondary		
Adopted Soil category	5		
Amended Adopted Soil Category	Not amended		
<ul> <li>Adopted DLR/DIR (mm/d OR L/m<sup>2</sup>/d)</li> </ul>	3		
LAA Design	Irrigation		
Primary LAA Requirement	200m <sup>2</sup>		
Reserve Area	Min 100% reserve LAA must be maintained in an undeveloped state near the primary system as identified on the site plan		
Fixtures	Assumes std water saving fixtures inc 6/3L dual flush toilets, aerator forcets, Washing/dishwashing machines with min WELSS rating 4.5 star		
Consequences of Variation in Effluent Flows			
High Flows	The system should be capable of buffering against flows of up to 10 % in a 24 hr period or 5% over a 7 day period. System not rated for spa installation.		
Low Flows	Should not affect system performance		
Consequences of Variation in Effluent Quality	Residence to avoid the installation of sink disposal systems (eg "sinkerators"), or the addition of large amounts of household cleaning products or other solvents. These can overload system BOD or affect effluent treatment by system biota.		
Consequences of Lack of Maintenance and Monitoring Attention	Owners should maintain the system in compliance with systems Home Owners Manual and council permit. All livestock, vehicles and persons to be excluded from the LAA. Failure to ensure the above may lead to infection of waterways, bores or the spread of disease, as well as production of foul odours, attraction of pests and		

\* In accordance with Clause 7.4.2(d) of AS/NZS 1547-2012.



#### **Appendix 2 Land Application Design Plans and Construction Notes**

Irrigation Design (1:20)



Figure 1 Irrigation cross section showing major delivery/flush lines and irrigation lines



**Figure 2 Irrigation Plan View** 

#### Land Application Area Design and Construction Notes

- 1. Delivery/flush line diameter = 25 30 mm
- 2. Irrigation line diameter = 12-16mm
- 3. Irrigation line spacing (A) =300 mm for Sands, Sandy Loams and Loams to 600mm for Clay Loams, Light Clays and Heavy Clays (see the wastewater flow modelling section of this report for soil classification).
- 4. Dripper/Sprinkler spacing (B) as per manufacturers specifications.
- 5. A vacuum breaker should be installed at the highest point of the irrigation area (or in the case of multiple irrigation lots at each lot). This breaker should be protected and marked).
- 6. A flush line should be installed at the lowest point of the irrigation area incorporating a return valve for back flushing of the system back into the treatment chamber.
- 7. All lateral lines MUST be installed parallel to the contours of the land. All minimum setbacks MUST be adhered to.
- 8. An inline filter must be inserted into the delivery line.
- 9. The first 100mm of the natural soil below the ground surface should be mechanically tilled to aid line installation and soil permeability
- 10. Gypsum should be incorporated at the rate of 1kg/5m<sup>2</sup> in dispersive soils.
- 11. Imported topsoil (not clay) should be applied as shown above.
- 12. Irrigation areas greater than 400 m<sup>2</sup> should be split into 100 m<sup>2</sup> cells with effluent flows switched between irrigation lots with an automatic valve system.
- 13. Where practical a 50% reserve area should be identified on the site to allow movement of the irrigation area if required.
- 14. In areas of moderate to steep slopes (>10%) then upslope cut off drainage should be installed to minimise shallow ground water recharge of the irrigation area from upslope.
- 15. All livestock and Vehicles MUST be excluded from irrigation area.

#### **Appendix 3 Site and Soil Evaluation**

Site and Soil Evaluation with Reference to AS1547 Table D1 Appendix D1			
Site Factor	Result		
Slope (over proposed system/LAA)	Approximately 5 degrees		
Shape	Planar		
Aspect	W		
Exposure	Moderate exposure to both sun and wind		
Erosion, mass movements landslip	No evidence of erosion, mass movement or landslip		
Boulders/Rock Outcrops	None observed		
Vegetation	Grass, weeds, trees		
Watercourse	See site plans >50m from LAA.		
Soil Water Regime	Perched water possible in flatter areas. Upslope interceptor drain to mitigate shallow groundwater impacts. Depth to permanent groundwater >10m		
Fill	None observed		
Run-on/Flooding	Not anticipated over the development area or LAA. Upslope interceptor to capture any surface, near surface flows.		
Channeled Runoff	No concentrated runoff over proposed LAA. See storm water management plan (or similar) for details of onsite storm water management.		
Soil Surface Condition	Grass/weeds		
Salinity	No saline tolerant species, salt scald or bare earth observed.		
Other Site and Soil Factors	Adequate slope to ensure gravity dosing of both tank and LAA		

# Onsite Wastewater System Design 3 Linden Road Primrose Sands

				strata gene once and environmental	Indicative Profile Log	1		
	Clie	nt	:					
	Pro Drill 1 Drillin Fluid	je( Typ Ig 1	ct: e: Met					
			Π		Soil :: Rock Weathering Frac. Spacing	g (r Sampling and Insitu Testing		
RL	Depth (mm)		Graphic Log	Material Description	V Softv Loos SoftLoose Sittinablers Stimmane Very High Medium Med	Test Results and Comments		
				BROWN CLAYEY SILT (M	L) LOOSE NP			
	500			BROWN SILTY CLAY (CH	) STIFF, HŻO			
				TRENDING CLAYEY GR/	VELS (GC):DENSE, GARDUAL REFUSAL			
	1000							
	1500							
	2000							
	2500							
	3000							
	3500							
	4000	F						
		E						
	4500	F						
		F						
	5000							
		F						
		E			TERMINATED AT 1.0 M			
	5500	F						
	6000							

#### Appendix 4 Form 35 and System Accreditation Certificate

CERTIFICATE OF THE RESPONSIBLE DESIGNER Section 94 Section 106 Section 129 Section 155					
To:	TASBUILT	Owner name	25		
		Address	Form <b>JJ</b>		
		Suburb/postcode			
Designer detail	S:				
Name:	S NIELSEN	Category:	HYDRAULIC SERVICES		
Business name:	STRATA GEOSCIENCE AND ENVIRONMNETAL P/L	Phone No:	0419545358		
Business address:	72-74 LAMBECK DRIVE				
	TULLAMARINE 3043	Fax No:			
Licence No: C	C6119K Email address: <u>sven@strataconsu</u>	<u>ulting.com.au</u>			
Details of the p	roposed work:				
Owner/Applicant	As above	Designer's project reference No.	<sup>t</sup> SR05637		
Address:	3 LINDEN ROAD	Lot No:			
	PRIMROSE SANDS	]			
Type of work:	Plumbing work	X (X all applicable)			
Description of work:					
WASTEWATER SYSTEM SPECIFICATION addition / repair / re-erection water / sewerag stormwater / on-site wastewate management system backflow prevention water / sewerag stormwater / on-site wastewate management system water / sewerag stormwater / on-site wastewate management system water / sewerag stormwater / on-site wastewate management system water / sewerag stormwater / sewerag stormw					
Description of the Design Work (Scope, limitations or exclusions): (X all applicable certificates)					

Certificate Type:	Certificate	Responsible Practitioner
	Building design	Architect or Building Designer
	□ Structural design	Engineer or Civil Designer
	☐ Fire Safety design	Fire Engineer
	Civil design	Civil Engineer or Civil Designer
	□X Hydraulic design	Building Services Designer
	☐ Fire service design	Building Services Designer
	Electrical design	Building Services Designer
	Mechanical design	Building Service Designer

# Onsite Wastewater System Design 3 Linden Road Primrose Sands

	Plumbing design		Plumber-Certi Designer or E	fier; Architect, Building ngineer
	□ Other (specify)			
Deemed-to-Satisfy:	X	Performance S	olution: 🔲 (	X the appropriate box)
Other details:				
Design documents	provided:			

The following documents are provided with this Certificate -

Document description:

Drawing numbers:	Prepared by:	Date:
Schedules:	Prepared by:	Date
Specifications:	Prepared by: SN	Date29/7/24
Computations	Prepared by: SN	Date 29/7/24
Performance solution proposals:	Prepared by:	Date:
Test reports:	Prepared by:	Date

Standards, codes or guidelines relied on in design process:	
AS1547-2012	
L	
Any other relevant documentation:	

Attribution as designer:

I SVEN NIESLEN..... am responsible for the design of that part of the work as described in this certificate;

The documentation relating to the design includes sufficient information for the assessment of the work in accordance with the Building Act 2016 and sufficient detail for the builder or plumber to carry out the work i accordance with the documents and the Act;

This certificate confirms compliance and is evidence of suitability of this design with the requirements of the National Construction Code.

Name:	(print)SVEN NIELSEN
-------	---------------------

~~

		Name: (print	SVEN NIELSEN		SN	
Designe	er:	SVEN NIELS	SEN		fd-	29/7/24
Licence	No: C	C6119K				
Assess	ment of (	Certifiable W	/orks: (TasWa	ater)		
Note: sing connectio	le residen n are not c	tial dwellings a considered to i	and outbuilding ncrease deman	s on a lot with d and are not o	an existing sew certifiable.	er
lf you can	not check	ALL of these b	oxes, LEAVE T	HIS SECTION	BLANK.	
TasWater Works.	must then	be contacted	to determine if t	he proposed v	works are Certifi	able
l confirm t Guidelines satisfied:	that the pros	oposed works /ater CCW Ass	are not Certifial essments, by vi	ole Works, in a rtue that all of	accordance with the following ar	the e
X The	e works will	not increase the	e demand for wa	ter supplied by	TasWater	
X The rem	e works will loved by,	not increase or	decrease the an	nount of sewag	e or toxins that is	to be
or d	lischarged	into, TasWater's	s sewerage infra	structure		
X The con mad	works will nection, to de to TasW	not require a ne be ater's infrastruc	ew connection, o ture	r a modification	ı to an existing	
X The	works will	not damage or	interfere with Ta	sWater's works	i	
X The	e works will	not adversely a	ffect TasWater's	s operations		
X The eas	e work are r ement	not within 2m of	TasWater's infra	structure and a	are outside any Ta	asWater
XIha	ve checked	the LISTMap t	o confirm the loc	ation of TasWa	ater infrastructure	
X If th has	e property been appli	is connected to ed for to TasWa	TasWater's wate ater.	er system, a wa	ater meter is in pla	ice, or

#### **Certification:**

I ......SVEN NIELSEN..... being responsible for the proposed work, am satisfied that the works described above are not Certifiable Works, as defined within the Water and Sewerage Industry Act 2008, that I have answered the above questions with all due diligence and have read and understood the Guidelines for TasWater CCW Assessments.

Note: the Guidelines for TasWater Certification of Certifiable Works Assessments are available at: <u>www.taswater.com.au</u>



# Certificate of Accreditation

Tasmanian Government

#### **On-Site Wastewater Management System**

This Certificate of Accreditation is hereby issued by the Director of Building Control pursuant to Section 18(1) of the *Building Act 2016* (accreditation of products).

System:	Taylex® Advanced Blower System 1500 a) Concrete ABS 1500 (10EP) and b) Poly ABS 1500 (10EP)
Manufacturer or Supplier:	Taylex Industries Pty Ltd ACN: 113 453 091
Of:	56 Prairie Rd, Ormeau, QLD 4208

This is to certify that the Taylex® Advanced Blower System as described in Schedule I, is accredited as an AWTS for use in plumbing installations in Tasmania for single dwellings. This accreditation is subject to the conditions and permitted uses specified in Schedule 2, and the National Construction Code.

Peter John Graham Director of Building Control Consumer, Building and Occupational Services Department of Justice

Date of Issue: 6 November 2020

Certificate Number: DOC/20/89089

This Certificate of Accreditation is in force until 6 November 2025, unless withdrawn earlier at the discretion of the Director of Building Control

P: 1300 654 499 | PO Box 56, Rosny Park TAS 7018 | cbos.info@justice.tas.gov.au | www.cbos.tas.gov.au

# Onsite Wastewater System Design 3 Linden Road Primrose Sands



#### **Appendix 5 Terms and Conditions**

#### Scope of Work

These Terms and Conditions apply to any services provided to you ("the Client") by Strata Geoscience and Environmental Pty Ltd ("Strata"). By continuing to instruct Strata to act after receiving the Terms and Conditions or by using this report and its findings for design and/or permit application processes and not objecting to any of the Terms and Conditions the Client agrees to be bound by these Terms and Conditions, and any other terms and conditions supplied by Strata from time to time at Strata's sole and absolute discretion. The scope of the services provided to the Client by Strata is limited to the services and specified purpose agreed between Strata and the Client and set out in the correspondence to which this document is enclosed or annexed ("the Services"). Strata does not purport to advise beyond the Services.

#### Third Parties

The Services are supplied to the Client for the sole benefit of the Client and must not be relied upon by any person or entity other than the Client. Strata is not responsible or liable to any third party. All parties other than the Client are advised to seek their own advice before proceeding with any course of action.

#### Provision of Information

The Client is responsible for the provision of all legal, survey and other particulars concerning the site on which Strata is providing the Services, including particulars of existing structures and services and features for the site and for adjoining sites and structures. The Client is also responsible for the provision of specialised services on the rot provided by Strata. If Strata obtains these particulars or specialised services on the instruction of the Client, Strata does so as agent of the Client and at the Client's expense. Strata is not obliged to confirm the accuracy and completeness of information supplied by the Client or any third party service provider. The Client is responsible for the accuracy and completeness of all particulars or services provided by the Client or obtained on the Client's behalf. Strata is not liable, and accepts no responsibility, for any claim, demand, charge, loss, damage, injury or expense whatsoever suffered by the Client or any other person or entity resulting from the failure of the Client or third party to provide accurate and complete information. In the event additional information becomes available to the Client, the Client must inform Strata in writing of that information as possible. Further advice will be provided at the Client's cost. Any report is prepared on the assumption that the instructions and information supplied to Strata. Strata is not liable, and accepts no responsibility, for any claim, demand, charge, loss, damage, injury or expense whatsoever if Strata. Strata is not liable, and accepts no responsibility, for any claim, demand, charge, loss, damage, injury or expense whatsoever suffered by the Client or any other person or entity resulting from the failure of the Client in the rot provide accurate and complete information. In the event additional information becomes available to the Client, the Client must inform Strata in writing of that information as soon as possible. Further advice will be provided at the Client's cost. Any report is prepared

#### Integrity

Any report provided by Strata presents the findings of the site assessment. While all reasonable care is taken when conducting site investigations and reporting to the Client, Strata does not warrant that the information contained in any report is free from errors or omissions. Strata is not liable, and accepts no responsibility, for any claim, demand, charge, loss, damage, injury or expense whatsoever resulting from errors in a report. Any report should be read in its entirety, inclusive of any summary and annexures. Strata does not accept any responsibility where part of any report is relied upon without reference to the full report.

#### Project Specific Criteria

Any report provided by Strata will be prepared on the basis of unique project development plans which apply only to the site that is being investigated. Reports provided by Strata do not apply to any project other than that originally specified by the Client to Strata. The Report must not be used or relied upon if any changes to the project are made. The Client should engage Strata to further advise on the effect of any change to the project. Further advice will be provided at the Client's cost. Strata is not liable, and accepts no responsibility, for any claim, demand, charge, loss, damage, injury or expense whatsoever where any change to the project is made without obtaining a further written report from Strata. Changes to the project may include, but are not limited to, changes to the investigated site or neighbouring sites, for instance, variation of the location of proposed building envelopes/footprints, changes to building design which may impact upon building settlement or slope stability, or changes to earthworks, including removal (site cutting) or deposition of sediments or rock from the site.

#### Classification to AS2870-5881

It must be emphasised that the site classification to AS2870-5881 and recommendations referred to in this report are based solely on the observed soil profile at the time of the investigation for this report and account has been taken of Clause 2.1.1 of AS2870 - 5881. Other abnormal moisture conditions as defined in AS2870 - 5881 Clause 1.3.3 (a) (b) (c) and (d) may need to be considered in the design of the structure. Without designing for the possibility of all abnormal moisture conditions as defined in Clause 1.3.3 (a) (b) (c) and (d) may need to be considered in the design of the structure. Without designing for the possibility of all abnormal moisture conditions as defined in Clause 1.3.3, distresses will occur and may result in non "acceptable probabilities of serviceability and safety of the building during its design life", as defined in AS2870 - 5881, Clause 1.3.1. Furthermore the classification is preliminary in nature and needs verification at the founding surface inspection phase. The classification may be changed at this time based upon the nature of the founding surface over the entire footprint of the project area. Any costs associated with a change in the site classification are to be incurred by the client. Furthermore any costs associated with delayed works associated with a founding surface inspection or a change in classification are to be borne by the client. Where founding surface inspections are not commissioned the classifications contained within this report are void.

#### Subsurface Variations with Time

Any report provided by Strata is based upon subsurface conditions encountered at the time of the investigation. Conditions can and do change significantly and unexpectedly over a short period of time. For example groundwater levels may fluctuate over time, affecting latent soil bearing capacity and ex-situ/insitu fill sediments may be placed/removed from the site. Changes to the subsurface conditions that were encountered at the time of the investigation void all recommendations made by Strata in any report. Strata is not liable, and accepts no responsibility, for any claim, demand, charge, loss, damage, injury or expense whatsoever resulting from any change to the subsurface conditions that were encountered at the time of the investigation. In the event of a delay in the commencement of a project or if additional information becomes available to the Client about a change in conditions becomes available to the Client, the Client should engage Strata to make a further investigation to ensure that the conditions initially encountered still exist. Further advice will be provided at the Client's cost. Without limiting the generality of the above statement, Strata does not accept liability where any report is relied upon after three months from the date of the report, (unless otherwise provided in the report or required by the Australian Standard which the report purports to comply with), or the date when the Client becomes aware of any change in condition. Any report should be reviewed regularly to ensure that it continues to be accurate and further advice requested from Strata where applicable.

## Onsite Wastewater System Design 3 Linden Road Primrose Sands

#### Interpretation

Site investigation identifies subsurface conditions only at the discrete points of geotechnical drilling, and at the time of drilling. All data received from the geotechnical drilling is interpreted to report to the Client about overall site conditions as well as their anticipated impact upon the specific project. Actual site conditions may vary from those inferred to exist as it is virtually impossible to provide a definitive subsurface profile which accounts for all the possible variability inherent in earth materials. This is particularly pertinent to some weathered sedimentary geologies or colluvial/alluvial clast deposits which may show significant variability. Soil depths and composition can vary due to natural and anthopogenic processes. Variability may lead to differences between the design depth of brodydriven piers compared with the actual depth of individual piers constructed onsite. It may also affect the founding depth of conventional strip, pier and beam or slab footings, which may result in increased costs associated with excavation (particularly of rock) or materials costs of foundations. Founding surface inspections should be commissioned by the Client prior to foundation construction to verify the results of initial site characterisation and failure to insure this will void the classifications and recommendations contained within this report. Strata is not liable, and accepts no responsibility, for any claim, demand, charge, loss, damage, injury or expense whatsoever resulting from any variation from the site conditions.

Strata is not responsible for the interpretation of site data or report findings by other parties, including parties involved in the design and construction process. The Client must seek advice from Strata about the interpretation of the site data or report.

#### **Report Recommendations**

Any report recommendations provided by Strata are only preliminary. A report is based upon the assumption that the site conditions as revealed through selective point sampling are indicative of actual conditions throughout an area. This assumption cannot be substantiated until earthworks and/or foundation construction is almost complete. Where variations in conditions are encountered, Strata should be engaged to provide further advice. Further advice will be provided at the Client's cost. Strata is not liable, and accepts no responsibility, for any claim, demand, charge, loss, damage, injury or expense whatsoever if the results of selective point sampling are not indicative of actual conditions throughout an area or if the Client becomes aware of variations in conditions and does not engage Strata for further advice.

#### Geo-environmental Considerations

Where onsite wastewater site investigation and land application system designs are provided by Strata, reasonable effort will be made to minimise environmental and public health risks associated with the disposal of effluent within site boundaries with respect to relevant Australian guidelines and industry best practise at the time of investigation. Strata is not liable, and accepts no responsibility, for any claim, demand, charge, loss, damage, injury or expense whatsoever resulting from:

- changes to either the project or site conditions that affect the onsite wastewater land application system's ability to safely dispose of modelled wastewater flows; or
- seepage, pollution or contamination or the cost of removing, nullifying or clearing up seepage, polluting or contaminating substances; or
   poor system performance where septic tanks have not been de-sludged at maximum intervals of 3 years or
- iii) poor system performance where septic tanks have not been de-sludged at maximum intervals of 3 years or AWTS systems have not been serviced in compliance with the manufacturers recommendations; or
- (iv) failure of the client to commission both interim and final inspections by the designer throughout the system construction; or
- (v) the selection of inappropriate plants for irrigation areas; or
- (vi) damage to any infrastructure including but not limited to foundations, walls, driveways and pavements; or
- (vii) land instability, soil erosion or dispersion; or
- (viii) design changes requested by the Permit Authority.

Furthermore Strata does not guarantee land application area design life beyond 2 years from installation.

Strata does not consider site contamination, unless the Client specifically instructs Strata to consider the site contamination in writing. If a request is made by the Client to consider site contamination, Strata will provide additional terms and conditions that will apply to the engagement.

#### Copyright and Use of Documents

Copyright in all drawings, reports, specifications, calculations and other documents provided by Strata or its employees in connection with the Services remain vested in Strata. The Client has a licence to use the documents for the purpose of completing the project. However, the Client must not otherwise use the documents, make copies of the documents or amend the documents unless express approval in writing is given in advance by Strata. The Client must not publish or allow to be published, in whole or in part, any document provided by Strata or the name or professional affiliations of Strata, without first obtaining the written consent of Strata as to the form and context in which it is to appear.

If, during the course of providing the Services, Strata develops, discovers or first reduces to practice a concept, product or process which is capable of being patented then such concept, product or process is and remains the property of Strata and:

- the Client must not use, infringe or otherwise appropriate the same other than for the purpose of the project without first obtaining the written consent of Strata; and
- (ii) the Client is entitled to a royalty free licence to use the same during the life of the works comprising the project.

#### **Digital Copies of Report**

If any report is provided to the Client in an electronic copy except directly from Strata, the Client should verify the report contents with Strata to ensure they have not been altered or varied from the report provided by Strata.



CBM Ventures Pty Ltd T/A Exceed Engineering www.exceedengineering.com.au ABN: 86 132 286 527

# STORMWATER DESIGN REPORT

3 Linden Road Primrose Sands



Development Application: 5.2024.322.1 -Development Application - 3 Linden Road, Primrose Sands - P1.pdf Plans Reference:P1 Date Received: 29/11/2024 CLIENT: Tasbuilt Homes PROJECT: New Residence & Garage JOB NO: EE962

Date	Purpose of Issue/Nature of Revision	Revision No.	Authorised by
05/07/2024	Issue for Client Review	REV01	SD

#### This report has been prepared by;

Liam Dingemanse BE(Civil) MIEAUST CPENG NER APEC Engineer IntPE(Aus) RPEQ GAICD

Sam Dingemanse BBus BSc MEIANZ

This Report has been prepared in reliance on data, surveys, analysis, designs, plans and other information provided by the client, and other individuals and organisations referenced herein. Except as otherwise stated in this report, Exceed has not verified the accuracy or completeness of such data, surveys, analysis, designs, plans, and other information. The passage of time, manifestation of latent conditions or impacts of future events may result in the actual contents differing from that described in this report.

No responsibility is accepted for use of any part of this report in any other context or for any other purpose by third parties.

This report does not purport to provide legal advice. Readers should engage professional legal advisers for this purpose.

Exceed Engineering 51 York St, PO Box 1971 Launceston Tasmania 7250 Australia Telephone: (03) 63326955 Email: info@exceedengineering.com.au

## Contents

1	Intro	Introduction1					
2	Site	Site and development details2					
	2.1	Exis	sting site conditions2	2			
	2.2	Dev	elopment details2	2			
3	Sto	rmwa	ater design methodology	3			
	3.1	Des	ign assumptions	3			
	3.2	IFD	data	3			
	3.3	Des	ign runoff coefficient	1			
	3.4	Hyd	raulic conductivity	1			
4	Det	entio	n and infiltration	5			
	4.1	Infilt	tration trench	5			
	4.1.	1	Design requirements6	3			
	4.1.	2	Setback distance6	3			
	4.1.	3	Stormwater reticulation	3			
	4.1.	4	Infiltration trench6	3			
5	Coc	le res	sponse	7			

## 1 Introduction

This report has been prepared to design a stormwater management system for capture and on-site dispersal of stormwater produced at the proposed new dwelling and garage to be constructed at 3 Linden Road Primrose Sands.

The purpose of this report is to investigate, design and report the site stormwater detention and disposal via infiltration, produced from the new residence and garage.

The design provided in this report is in accordance with *Australian Runoff Quality A guide to Water Sensitive Urban Design* (Engineers Australia, 2006) and Water Sensitive Urban Design Engineering procedures for stormwater management in Tasmania (EPA Tas, 2012).

## 2 Site and development details

### 2.1 Existing site conditions

The site is a flat residential block of approximately **2,200m**<sup>2</sup> in area. It is mapped for low coastal erosion hazard on the southern part of the site and coastal protection area on the western side, as shown in **EE962-C101**.

It is proposed to be developed with a new residence and garage. Site is currently vacant, and grass covered.

A site classification was undertaken by W. C. Cromer in November 2018. Texture and thickness of the soil explained as below:

The soil is a weakly duplex (2-layered) profile comprising a topsoil (A1 horizon; Layer 1) of dark clayey silt (CL) between 0.1 - 0.2m thick over a subsoil of high plasticity clay (CH; Layer 2) 0.4 - 0.5m thick.

### 2.2 Development details

The project involves the construction of a new dwelling and a garage with total roof area of **220**  $m^2$ . This design considers the stormwater runoff generated from the new dwelling's and garage's roof areas.

The increase in impervious surfaces from the roofs will concentrate stormwater runoff flows. The proposed detention and infiltration system will be designed to accumulate these stormwater flows at a single point for infiltration into the soil and groundwater.

## 3 Stormwater design methodology

### 3.1 Design assumptions

A **20% AEP** storm was used as the basis of the design. This is considered appropriate given the low risk associated with stormwater discharge at the site. A range of storm durations from 5 mins to 72 hrs were assessed to determine the infiltration trench sizing required.

### 3.2 IFD data

Intensity–Frequency–Duration (IFD) design rainfall intensities were sourced from the Bureau of Meteorology 2016 Design Rainfalls website for the site location. They are as follows (in mm/hr):

	Annual Exceedance Probability (AEP)						
Duration	63.2%	50%#	20%*	10%	5%	2%	1%
1 <u>min</u>	98.7	112	153	181	209	247	276
2 <u>min</u>	83.3	93.8	128	152	176	209	236
3 <u>min</u>	75.8	85.4	116	138	160	189	212
4 <u>min</u>	70.0	78.9	108	128	148	174	195
5 <u>min</u>	65.2	73.6	100	119	137	162	181
10 <u>min</u>	49.0	55.5	75.9	90.0	104	123	137
15 <u>min</u>	39.8	45.1	61.8	73.4	84.8	100	112
20 <u>min</u>	33.8	38.3	52.6	62.4	72.2	85.5	95.8
25 <u>min</u>	29.7	33.6	46.0	54.7	63.3	74.9	84.1
30 <u>min</u>	26.5	30.0	41.1	48.8	56.5	67.0	75.2
45 <u>min</u>	20.6	23.2	31.7	37.6	43.5	51.6	57.9
1 hour	17.1	19.3	26.2	31.0	35.9	42.5	47.7
1.5 hour	13.2	14.8	20.0	23.6	27.2	32.2	36.0
2 hour	11.1	12.3	16.5	19.4	22.4	26.3	29.4
3 hour	8.61	9.59	12.7	14.8	17.0	19.8	22.1
4.5 hour	6.75	7.49	9.80	11.4	12.9	15.0	16.6
6 hour	5.69	6.30	8.19	9.47	10.7	12.4	13.6
9 hour	4.48	4.95	6.38	7.33	8.25	9.46	10.4
12 hour	3.77	4.16	5.34	6.12	6.86	7.85	8.59
18 hour	2.94	3.24	4.15	4.75	5.31	6.06	6.62
24 hour	2.45	2.70	3.46	3.95	4.41	5.04	5.51
30 hour	2.11	2.33	2.99	3.42	3.82	4.37	4.78
36 hour	1.86	2.06	2.65	3.03	3.39	3.88	4.25
48 hour	1.52	1.68	2.17	2.49	2.79	3.20	3.51
72 hour	1.13	1.25	1.62	1.86	2.09	2.40	2.64

## 3.3 Design runoff coefficient

		Developed	
Category	Туре	Area (m2)	Coefficient of Runoff
Impervious Area	Roofed Area	220	1.0
	Asphalt/Concrete Driveway	-	0.9
	Paved and other handstand	-	0.7
	Total site area	220	
	Input Check (has to be 0)	-	
	Weighted average runoff coefficient	1.0	

The runoff coefficient from the roof was assessed as 1.0.

## 3.4 Hydraulic conductivity

Hydraulic conductivity was estimated from the soil types as identified by Cromer, 2018. It is considered as medium clay with saturated hydraulic conductivity of (36mm/hr).
# 4 Detention and infiltration

Given the intent for all stormwater produced from the roofs to be contained within the site, an infiltration system is proposed which will act to capture, detain and infiltrate the stormwater to the ground.

## 4.1 Infiltration trench

An infiltration trench (also known as a soakage pit) is an in-ground device with porous walls and base in which plastic crates or gravel is placed to create a void which will accumulate and detain the stormwater and infiltrate it to the surrounding soil.

The infiltration trench was designed using the methodology of Australian Runoff Quality A guide to WSUD Engineers Australia 2006 and WSUD Engineering Procedures for Stormwater Management in Tasmania 2012.

duration (mins)	Storm duration (hrs)	AEP 20% (mm/hr)	Volume in (m3)	Volume out (m3)	Storage volume required (m3)	% of storage provided	Emptying time (hrs)
5		100	1.83	0.14	1.69	238%	1
10		75.9	2.78	0.29	2.50	161%	1
30		41.1	4.52	0.86	3.66	110%	2
60	1	26.2	5.76	1.73	4.04	100%	2
120	2	16.5	7.26	3.46	3.80	106%	2
180	3	12.7	8.38	5.18	3.20	126%	2
360	6	8.19	10.81	10.37	0.44	909%	0
720	12	5.34	14.10	20.74	- 6.64	-61%	- 4
1080	18	4.15	16.43	31.10	- 14.67	-27%	- 8
1440	24	3.46	18.27	41.47	- 23.20	-17%	- 13
1800	30	2.99	19.73	51.84	- 32.11	-13%	- 19
2160	36	2.65	20.99	62.21	- 41.22	-10%	- 24
2880	48	2.17	22.92	82.94	- 60.03	-7%	- 35
4320	72	1.62	25.66	124.42	- 98.76	-4%	- 57

It is proposed to use a gravel-filled trench which will be in the west of the site and north side of the proposed building. It will receive stormwater from dwelling and garage, which conveys an area of **220** m<sup>2</sup>. The design of the trench is **11.5m** (L)x1.0 m x (W) x1.0m (D). This trench will provide **4.04m<sup>3</sup>** of the storage required to up to a **20% AEP** storm event with the critical storm being the **one-hour** duration.

#### 4.1.1 Design requirements

#### Refer attached drawing **EE962-C101**

#### 4.1.2 Setback distance

The recommended minimum setback distance for the infiltration trench for a medium clay soil type is **4.0 m** to boundaries and residence.

Soil Type	Saturated Hydraulic Conductivity	Minimum distance from structures and property boundaries
Sand	> 5 x 10 <sup>-5</sup> m/s (180 mm/hr)	1.0 m
Sandy Clay	1 x 10 <sup>-5</sup> to 5 x 10 <sup>-5</sup> m/s (36 to 180 mm/hr)	2.0 m
Weathered or Fractured Rock	1 x 10 <sup>-6</sup> to 1 x 10 <sup>-5</sup> m/s (3.6 to 36 mm/hr)	2.0 m
Medium Clay	1 x 10 <sup>-6</sup> to 1 x 10 <sup>-5</sup> m/s (3.6 to 36 mm/hr)	4.0 m
Heavy Clay	1 x 10 <sup>-8</sup> to 1 x 10 <sup>-6</sup> m/s (0.036 to 3.6 mm/hr)	5.0 m

Table 10-2 Minimum set-back distances (adapted from Engineers Australia, 2006)

#### 4.1.3 Stormwater reticulation

Stormwater from the roof gutter/s will be directed by 100mm UPVC pipe to the infiltration system.

#### 4.1.4 Infiltration trench

- The proposed dimensions of the trench are 11.5m (L) x 1.0m (W) x 1.0m (D).
- After excavation the trench should be lined with geotextile fabric
- The total excavation depth should be **1.2 m** to allow for **200mm** soil cap to be placed over the gravel, after lining with geotextile fabric. This should be domed to allow for compaction and seeded with grass.

# 5 Code response

#### SOR-S2.7.2 Stormwater management

The performance criteria are addressed. The development is shown to be capable of accommodating an onsite stormwater management system that is adequate and suitable for the development and subject site. This is achieved using an infiltration trench where all stormwater from impervious surfaces will be conveyed to the trench and infiltrated to soil/groundwater.

Having regard to:

(a) the size of the lot; The lot is approximately 2,200m2 and regular, with the required area for stormwater detention trench being 11.5m2; hence the site has sufficient area, including appropriate setbacks from boundaries, to accommodate an on-site stormwater system.

(b) topography of the site; The site has a gentle slope towards the west, with no construction restrictions for the stormwater trench.

(c) soil conditions; The soil comprises a clayey silt and silty sand profile; Medium Clay soil classification was considered for the design of the infiltration trench

(d) any existing buildings on the site; The site is currently vacant; the stormwater system was designed to accommodate the proposed dwelling.

(e) any area of the site covered by impervious surfaces; Impervious areas (the proposed dwelling and garage roof) were considered for the design of the infiltration trench

(f) any watercourse on the land; There are no watercourses located within the site.

November 2024

# PLANNING Report

# **3 Linden Road PRIMROSE SANDS**

Application for single dwelling with carport







Prepared by Woolcott Land Services Pty Ltd ABN 63 677 435 924

#### © Woolcott Land Services Pty Ltd

The information contained in this document produced by Woolcott Land Services Pty Ltd is solely for the use of the Client identified on the cover sheet for the purpose for which it has been prepared and Woolcott Land Services Pty Ltd undertakes no duty to or accepts any responsibility to any third party who may rely upon this document.

All rights reserved pursuant to the Copyright Act 1968. No material may be copied or reproduced without prior authorisation.

#### Launceston Head office

P 03 6332 3760
E enquiries@woolcott.au
A 10 Goodman Court Invermay
7250

St Helens East Coast office

P 03 6376 1972E admin@ecosurv.com.auA 52 Cecilia Street St Helens 7216

www.woolcott.au

## Woolcott Land Services & East Coast Surveying 3 LINDEN ROAD PRIMROSE SANDS

Job Number: L240636 Prepared by: Michelle Schleiger (michelle@woolcott.au) Town Planner

Rev.no	Description	Date
1	Draft	
2	Final	26 November 2024

# 1. Contents

1.	In	Introduction		
2.	S	pject site and proposal4		
	2.1	Site details		
	2.2	2 Proposal	5	
3.	Ρ	Planning Scheme Assessment	7	
	3.1	Zone assessment	7	
	3.2	2 Code Assessment	15	
4.	С	Conclusion		

#### Woolcott Land Services & East Coast Surveying

# 1. Introduction

This report has been prepared in support of a planning permit application under Section 57 of the *Land Use Planning and Approvals Act 1993.* 

Proposed development	
Single dwelling with garage	

This application is to be read in conjunction with the following supporting documentation:

Document	Consultant
Proposal Plan	Engineering Plus / Tasbuilt Homes

#### Planning history

Conditioned approval under 5.2024.164.1

# 2. Subject site and proposal

## 2.1 Site details

Address	3 Linden Road, Primrose Sands TAS 7173
Property ID	5946487
Title	65386/71
Land area	~2195.42m <sup>2</sup>
Planning Authority	Sorell Council
Planning Scheme	Tasmanian Planning Scheme – Sorell
Covenants or Agreements	None on title
Application status	Discretionary application
Existing Access	None existing
Zone	Low Density Residential

#### Woolcott Land Services & East Coast Surveying

General Overlay	Southern Beaches On-site Waste Water and Stormwater Management Specific Area Plan	
Overlays	Airport obstacle limitation area Low coastal erosion hazard band Waterway and coastal protection area Priority vegetation area	
Existing development	Vacant	
Existing services and infrastructure		
Water	Not serviced	
Sewer	Not serviced	
Stormwater	Not serviced	

# 2.2 Proposal

The proposal is to develop the land with a single dwelling with a carport. This application has conditioned approval and requires a retrospective change to the application; specifically, clause 10.4.3 A2/P2.

The dwelling will have a building area of 128.14m<sup>2</sup> and will have 3 bedrooms; kitchen and living areas, laundry, bathroom and ensuite. It will have a partially roofed deck of 83.54m<sup>2</sup> and a single carport for one car parking space. The carport will be partially screened.

The development will include an onsite wastewater management system. Stormwater will be collected by tank and overflow directed to an absorption trench. The plans provided at Annexure 2 provide further detail along with supporting site and soil assessment reports at Annexure 3 and 5.



Figure 1 Aerial view of the subject site (Source: LIST)

#### Woolcott Land Services & East Coast Surveying

# 3. Planning Scheme Assessment

# 3.1 Zone assessment

## 10.0 Low Density Residential Zone

## 10.1 Zone Purpose

10.1.1	To provide for residential use and development in residential areas where there are infrastructure or environmental constraints that limit the density, location or form of development.
10.1.2	To provide for non-residential use that does not cause an unreasonable loss of amenity, through scale, intensity, noise, traffic generation and movement, or other off site impacts.
10.1.3	To provide for Visitor Accommodation that is compatible with residential character.

## 10.2 Use Table

Use Class	Qualification
No Permit Required	
Residential	If for a single dwelling.

## 10.4 Development Standards for Dwellings

#### 10.4.2 Building height

Objective			
That the height of dwellings is compatible with the streetscape and do not cause an unreasonable loss of amenity for adjoining properties.			
Acceptable Solutions	Performance Criteria		
A1 A dwelling must have a building height not more than 8.5m.	P1 The height of dwellings must be compatible with the streetscape and not cause an unreasonable loss of amenity to adjoining properties having regard to:		
	a) the topography of the site;		
	<li>b) the height of buildings on the site and adjacent properties;</li>		
	<ul> <li>c) the bulk and form of existing and proposed buildings;</li> </ul>		
	<ul> <li>d) sunlight to habitable rooms and private open space of dwellings; and</li> </ul>		
	e) any overshadowing of adjoining properties.		

#### Woolcott Land Services & East Coast Surveying

#### Response

#### A1 The acceptable solution is achieved. The building is maximum height 7.9m.

#### 10.4.3 Setback

Objective		
That the siting of dwellings is compatible with the streetscape and does not cause an unreasonable lo amenity for adjoining properties.		
Acceptable Solutions	Performance Criteria	
A1 Dwellings, excluding protrusions that extend not more than 0.9m into the frontage setback, must have a setback from a frontage not less than 8m.	<ul> <li>P1 The siting of a dwelling must be compatible with the streetscape and character of development existing on established properties in the area, having regard to:</li> <li>a) the topography of the site;</li> <li>b) the setbacks of surrounding buildings;</li> <li>c) the height, bulk and form of existing and proposed buildings;</li> <li>d) the appearance when viewed from roads and public open space adjacent to the site; and</li> <li>e) the safety of road users.</li> </ul>	

#### Response

#### A1 The acceptable solution is achieved. The front setback is 37.8m.

A2	Dwellings, excluding outbuildings with a building height of not more than 2.4m and protrusions that extend not more than 0.9m horizontally from the building, must have a setback from side and rear boundaries of not less than 5m.	P2	The siting of a dwelling must not cause an unreasonable loss of amenity to adjoining properties, having regard to:		
			a)	the topography of the site;	
			b)	the size, shape and orientation of the site;	
			c)	the setbacks of surrounding buildings;	
		d)	the height, bulk and form of existing and proposed buildings;		
		e)	the existing buildings and private open space areas on the site;		
			f)	sunlight to private open space and windows of habitable rooms on adjoining properties; and	
			g)	the character of development existing on established properties in the area.	

Response

P2 The performance criteria are addressed. The side and rear setbacks are reduced. The side setback to the west boundary is 4.4m and causes a setback reduction for approximately 1.2m

#### Woolcott Land Services & East Coast Surveying

before the 5m setback is achieved. This is due to the angle of the dwelling against the shape of the lot. The setback to the rear boundary is a minimum of 2.5m. There are no adjoining lots to the rear (south) boundary and the land is not suited to residential development in the future as it is Crown managed land and a public reserve.

The dwelling is sited on a lot at the end of a row of houses with only one adjoining neighbour, or residential lot, to the east. The setback to this neighbour is complaint. The setback is reduced only to the west and south boundary.

The Objective of this clause is for compatibility within the streetscape and not to cause loss of amenity to neighbours. In the context of this site the objective is met.

- a. The topography of the site is gently sloped. The proposed dwelling is downhill to the neighbouring dwelling to the east and to the street. No untoward effect causing incompatibility is made due to a reduced setback to the frontage or the neighbouring lot and the topography causes no impact.
- b. The shape of the site is irregular and the site has an area of an estimated 2195m<sup>2</sup>. The irregular shape of the site allows for the gradual increase in setback to the west, where the building is sited parallel to the south boundary.
- c. Surrounding buildings exhibit differing development pattern in terms of size and shape of lots, however, many dwellings are positioned to the rear boundary (south side on Linden Road), towards the coastline. Many dwellings are located on, or very near one, or both side boundaries. The building at 5 Linden Road (neighbouring lot to the east) has a reduced setback to the subject site. The building at 2 Linden Road also has a reduced side setback. Where there are lots in the area that are larger but irregular shaped, such as the subject site, the setbacks vary within the lot, due to the irregular lot shape. The proposed is consistent with the surrounding setbacks.
- d. Surrounding buildings display variation in height, bulk and form. The proposed is not inconsistent with surrounding development and the deep setback means the building will have little visual impact to others and from the public road. The setback to the east boundary neighbour is in excess of the acceptable solution, offsetting the reduction to shared boundary setback from this dwelling. The impact to the amenity of adjoining neighbours is assured to be minimal and well within reason.
- e. The setback to neighbouring dwellings and private open space is significant and no loss to neighbouring amenity is anticipated as a result of the siting of the subject dwelling. Only one lot is an adjoining residential lot and the distance between buildings is more than 30m. The neighbouring dwelling is most likely to enjoy private open space to the east of the building. However, the eastern neighbour will have continued privacy assured tot eh west

Woolcott Land Services & East Coast Surveying 3 LINDEN ROAD PRIMROSE SANDS facing windows of the dwelling due to the proposed setback. The subject dwelling is most likely to enjoy private open space on the north and west facing decks, and the east deck is shielded from the neighbours by the car port. Given the slight difference in elevation also, there is well within reasonable provision of private open space to all lots in question.

- f. No overshadowing to the eastern adjoining lot is anticipated from the proposed dwelling.
- g. The proposed is reasonably consistent with the surrounding given the variance in development style and the variance in lot size for the subject site. The area is predominantly residential with buildings of varied age, height and bulk, positioned to take advantage of views. There appear to be a residential development at 2a Linden Road that is a larger lot with an irregular shape.

The objective of this clause is to provide neighbouring development with assurance that new development will not cause impact in regard to overlooking, overshadowing that reduces amenity. Amenity is defined in the Scheme and:

means, in relation to a locality, place or building, any quality, condition or factor that makes or contributes to making the locality, place or building harmonious, pleasant or enjoyable. Given that the setback to the nearest neighbour is in excess of 5m, and the reduced setbacks are to the boundaries where there are no neighbours, the amenity of adjoining properties is maintained. For the amenity of the Crown land, the amenity will be consistent with the existing, given that there are several buildings with reduced setback to the Crown land (9 Linden Road, 57 Linden Road, 59 Linden Road, 3 Primrose Sands Esplanade)<sup>1</sup>. In this sense, the proposed dwelling will *appear* as typical for the area being residential and coastal.

Images for the surrounding area built form and development are provided (taken from real estate listings for the area).

<sup>1</sup>Estimated based on LIST imagery.

#### Woolcott Land Services & East Coast Surveying



Figure 21 Casuarina Close<sup>2</sup>



Figure 3 7 Casuarina Close - showing built form at 2B Linden  ${\sf Road}^3$ 

#### Woolcott Land Services & East Coast Surveying

 <sup>&</sup>lt;sup>2</sup> https://www.realestate.com.au/property/1-casuarina-cl-primrose-sands-tas-7173/
 <sup>3</sup> https://harcourts.net/au/office/signature/listing/tsg22298



Figure 4 5 Linden Road west elevation to subject site<sup>4</sup>



Figure 5 Showing built form in the area - note 2a and 2b in relation to the coastal reserve<sup>5</sup>

<sup>4</sup> https://www.realestate.com.au/property/5-linden-rd-primrose-sands-tas-7173/ <sup>5</sup> https://www.realestate.com.au/property/7-casuarina-cl-primrose-sands-tas-7173/

Woolcott Land Services & East Coast Surveying



Figure 6 Showing west elevation of 5 Linden Road in relation to the boundary. The proposed ensures setbacks to this dwelling will protect amenity.

#### 10.4.4 Site coverage

#### Objective

#### That site coverage:

- a) is consistent with the character of existing development in the area;
- b) provides sufficient area for private open space and landscaping; and
- c) assists with the management of stormwater runoff.

#### Woolcott Land Services & East Coast Surveying

Acceptable Solutions		Performance Criteria		
A1	Dwellings must have a site coverage of not more than 30%.	P1 The site coverage of dwellings must be consistent with that existing on established properties in the area, having regard to:		e site coverage of dwellings must be sistent with that existing on established perties in the area, having regard to:
			a)	the topography of the site;
			b)	the capacity of the site to absorb runoff;
		c) the size and shape of the site;		the size and shape of the site;
			d)	the existing buildings and any constraints imposed by existing development;
			e)	the provision for landscaping and private open space;
			f)	the need to remove vegetation; and (g) the site coverage of adjacent properties.

Response

#### A1 The acceptable solution is achieved. The site coverage is estimated at under 10%.

#### 10.4.5 Frontage fences for all dwellings

#### Objective

That the height and transparency of frontage fences:

a) provides adequate privacy and security for residents;

b) allows the potential for mutual passive surveillance between the road and the dwelling; and

c) is reasonably consistent with fences in the street

Acceptable Solutions	Performance Criteria		
A1 No Acceptable Solution.	P1 A fence (including a free-standing wall) for a dwelling within 4.5m of a frontage must:		
	<ul> <li>a) provide for security and privacy, while allowing for passive surveillance of the road; and (b) be consistent with the height and transparency of fences in the street, having regard to:</li> </ul>		
	i. the topography of the site; and		
	ii. traffic volumes on the adjoining road.		

Response

Not applicable - no front fence is proposed.

#### Woolcott Land Services & East Coast Surveying

## 3.2 Code Assessment

### C2.0 Parking and Sustainable Transport Code

C2.5 Use Standards

Response

- A1 The acceptable solution is achieved. Two car parking spaces can be accommodated on the site.
   One space is provided in the car port and a second car can be parked in tandem. There is sufficient driveway space provided for manoeuvring on the site.
- C2.6 Development standards for buildings and works
- C2.6.1 Construction of parking areas

Response

- P1 The performance criteria are addressed. The manoeuvring (driveway) is formed. It is understood that as the access is from an unsealed road, the vehicle crossing may also be made from gravel.
- C2.6.2 Design and layout of parking areas

#### RESPONSE

- A1 The acceptable solution is achieved. Parking access and manoeuvring is compliant please refer to proposal plans.
- C2.6.3 Number of accesses for vehicles

RESPONSE

- A1 The acceptable solution is achieved.
- C3.0 Road and Railway Assets Code
- C3.5 Use Standards
- C3.5.1 Traffic generation at a vehicle crossing, level crossing or new junction

RESPONSE

A1 The acceptable solution is achieved. The access is existing with upgrades proposed to meet Council standards as conditioned. Please see the attached application for works supplied with this application.

# SOR–S2.0 Southern Beaches On-site Waste Water and Stormwater Management Specific Area Plan

#### Response

#### Please refer to Annexure 5 for this response.

- C7.0 Natural Assets Code
- C7.6 Development Standards for Buildings and Works
- C7.6.1 Buildings and works within a waterway and coastal protection area or a future coastal refugia area

#### RESPONSE

- P1.1 The performance criteria are addressed. The building is within the overlay area.
  - a. The annexed soil reporting evidences that the site has no indications of instability. A suitable soil and water management plan at the time of construction can address siltation or sedimentation effects during works.
  - b. The site requires no removal of vegetation.
  - c. NA
  - d. NA
  - e. No effect to natural flow or drainage is anticipated.
  - f. No impact to fish passage is anticipated.
  - g. NA
  - h. The site is currently vacant without existing facilities.
  - i. Cut and fill is not proposed.
  - j. The building design uses pole construction to minimise disturbance of the land.
  - k. No impact to coastal process is anticipated.
  - I. Future works are not anticipated.
  - m. NA
  - n. Best practice guideline will be followed and can be conditioned.
- P1.2 The spatial extent according to Table C7.3 is 40m. The subject site boundary is 42m from the highwater mark. The building and works is not within the spatial extent of the tidal waters.
- A3 The acceptable solution is achieved. There is no new point of discharge to a watercourse.
- A4 The acceptable solution is achieved. No dredging or reclamation is proposed.
- A5 The acceptable solution is achieved. No coastal protection works are proposed.

#### Woolcott Land Services & East Coast Surveying

C7.6.2 Clearance within a priority vegetation area

#### RESPONSE

A1 The acceptable solution is achieved. No clearance of native vegetation is proposed.

### C10.0 Coastal Erosion Hazard Code

- C10.4 Use or Development Exempt from this Code
- C10.4.1 Excluding where development occurs on an actively mobile landform in the coastal zone, the following use or development is exempt from this code:

(a) use or development that requires authorisation under the Building Act 2016, excluding:

(i) a critical use, hazardous use, or vulnerable use;

- (ii) if located within a high coastal erosion hazard band; or
- (iii) coastal protection works;

#### RESPONSE

The application is exempt.

- C16.0 Safeguarding of Airports Code
- C16.4 Use or Development Exempt from this Code
- C16.4.1 The following use or development is exempt from this code:

(a) development that is not more than the AHD height specified for the site of the development in the relevant airport obstacle limitation area.

#### RESPONSE

The application is exempt.

# 4. Conclusion

The proposed is for the development of a single dwelling in the Low Density Residential Zone. The development is compliant with the provisions of the Tasmanian Planning Scheme – Sorell and the applicable Local Provision; a planning permit is sought accordingly.

## Annexures

Annexure 1 Copy of Title plan and Folio text

#### Woolcott Land Services & East Coast Surveying

Annexure 2 Proposal Plan

Annexure 3 Site and soil report for Onsite Wastewater Management (updated version from Strata)

Annexure 5 Stormwater design and reporting



# VEHICULAR CROSSING (AND ASSOCIATED WORKS) APPLICATION

**Note:** A vehicular crossing shall not be constructed, repaired or altered without the issue of a permit to do so. All work shall be carried out under the supervision and to the satisfaction of Council's Engineer and in compliance with the approval letter. **Mandatory fields marked with \* must be completed.** A fee is payable upon submission of this application in accordance with Sorell Council Fees and Charges.

*Applicant's Name Ashledge Atterner	- Task At House
*Postal Address	Harris 73.03
Post	tcode
*Telephone 0363931013 Mobile 041	6181722
*Email ashleigh a @ tasbuiltgrou	up . Com. all
*Landowner's Name Darner Curdy tu	Jamile Cilynn
*Address of Property Concerned	3
3 Linder Road, Prin	rose Sands.
*You Must Provide A Sketch Of Your Proposed Crossing And Relation To Boundaries And Indicate Distances (Or Attach Sketch See Drawy S. Sorell Council Development Application: 5.2024.322.1 - Development Application: 5.2024.322.1 - Development Application: 3 Linden Road, Primrose Sands - P1.pdf	/ Or Modifications In Or Drawings If Available)
Applicant's Signature	
Fee paid	Date 25.06-24
OFFICE USE ONLY	
Receipt No# (Receipt Type 437)	Date



# **DRAWING SCHEDULE**

A00	COVER PAGE
A01	SITE PLAN
A02	CONSTRUCTION PLAN
A03	FLOOR PLAN
A04	DRAINAGE PLAN
A05	ELEVATIONS #1
A06	ELEVATIONS #2
A07	ROOF PLAN
A08	SECTION & DETAILS
A09	AREA PLAN
A10	3D PERSPECTIVES
A11	LIGHTING PLAN
A12	SOIL & WATER MANAGEMENT PLAN
A13	STANDARD TIEDOWN DETAILS
A14	STANDARD BRACING DETAILS
A15	STANDARD STAIR & HANDRAIL DETAILS
A16	STANDARD WET AREA & WATERPROOFING DETAILS - GENERAL
A17	STANDARD WET AREA & WATERPROOFING DETAILS - SHOWERS
A18	STANDARD WET AREA & WATERPROOFING DETAILS - BATH
A19	NCC NOTES #1
A20	NCC NOTES #2
A21	NCC NOTES #3
100	

A22 NCC NOTES #4



Development Application: 5.2024.322.1 -Response to Request for Information - 3 Linden Road, Primrose Sands - P2.pdf Plans Reference: P2 Date received:13/12/2024

# **PROPOSED DWELLING**

D. CUNDY & W. GLYNN **3 LINDEN ROAD** PRIMROSE SANDS

SORELL COUNCIL

# **PROJECT INFORMATION**

BUILDING DESIGNER	GRANT JAM
ACCREDITATION No:	CC2211T
BUILDING CLASS:	CLASS 1A
LAND TITLE REFERENCE NUMBER:	65386/71
DESIGN WIND SPEED:	N4
SOIL CLASSIFICATION:	'M' (S)
CLIMATE ZONE:	7
BUSHFIRE-PRONE BAL RATING:	N/A
ALPINE AREA:	N/A
CORROSION ENVIRONMENT:	SEVERE
FLOODING:	NO
LANDSLIP:	NO
DISPERSIVE SOILS:	UNKNOWN
SALINE SOILS:	UNKNOWN
SAND DUNES:	NO
MINE SUBSIDENCE:	NO
LANDFILL:	NO
GROUND LEVELS:	REFER PLA
ORG LEVEL:	75MM ABO\

DEVELOPMENT AREA		
Name Area		
PROPOSED DWELLING	128.14 m <sup>2</sup>	
DECK	83.54 m²	
CARPORT	24.00 m <sup>2</sup>	
	235.68 m <sup>2</sup>	

# **ISSUED FOR CONSTRUCTION**

81 Elizabeth Street, Launceston, Tasmania 7250 jack@engineeringplus.com.au, trin@engineeringplus.com.au Jack 0417 362 783 or Trin 0417 545 813

MES PFEIFFER

١N VE GROUND LEVEL SURFACE









# WINDOW SCHEDULE

IARK	HEIGHT	WIDTH	TYPE	U-VALUE	SHGC
W1	2100	2100	DG	4.3	.55
W2	2100	2100	DG	4.3	.55
W3	2100	600	DG	4.3	.55
W4	2100	2400	DG	4.3	.55
V5	1200	2100	DG	4.3	.55
V6	600	1800	DG	4.3	.55
V7	600	2100	DG	4.3	.55
V8	600	1500	DG	4.3	.55
V9	900	600	DG	4.3	.55
V10	900	600	DG	4.3	.55
W11	2100	600	DG	4.3	.55
W12	2100	600	DG	4.3	.55
W13	350	1800	DG	4.3	.55
W14	350	1800	DG	4.3	.55
_,					•
BF1	2100	2400	DG	4.0	.61
3F2	2100	2400	DG	4.0	.61

**\*REFER ELEVATIONS FOR HIGHLIGHT WINDOWS** 

^ - IF HEIGHT TO GROUND IS GREATER THEN 2.0m WINDOW TO HAVE PERMANENTLY FIXED ROBUST SCREEN INSTALLED OR HAVE AN OPENING RESTRICTED TO 125mm

## **DISCLAIMER:**

ALL WINDOWS SHOWN ON PLAN ARE APPROX. BASED OFF STANDARD MANUFACTURING SIZES. ALL WINDOW DIMENSIONS TO BE CONFIRMED ON SITE BY BUILDER PRIOR TO ORDERING AND MANUFACTURING.

	Area	Schedule (C	ding)		
	Nam	e	Area	Area (sq)	
	PROPOSED D	WELLING	128.14 m²	13.79	
	CARPORT		24.00 m²	2.58	
	DECK		83.54 m²	8.99	
		:	235.68 m²	25.37	
	ISSUED F	OR CO	NSTRU	ICTION	
	Copyright c				
	Client: D. C	CUNDY &	W. GLY	NN	
vn: 30 05 24	Project. PRC			IG	
$\cap$ lones	Address: 3 LI	NDEN RC	DAD,		
0 lones	PRI	MROSE S	ANDS		
J. Pfeiffer Shown @ A3	Mob 0417 362 783 or ( jack@engineeringplus. trin@engineeringplus.	0417 545 813 com.au		RANG	
d Building Des	signer	Drawing N	0:	Rev	
Name: J.Pfei ion No: CC22	ffer 11T	1012024	A02 /	A22 1	



CARPORT

FFL AHD: 17.39

Area Schedule (Gross Buil			
Name	Area		
PROPOSED DWELLING	128.14 m <sup>2</sup>		
CARPORT	24.00 m <sup>2</sup>		
DECK	83.54 m²		
	235.68 m <sup>2</sup>		

MINOR AMENDMENT 25.11.24 W.T Date Drawn: 30.05.24 1 ISSUED FOR CONSTRUCTION 07.10.24 O.J Drawn: O. Jones 0 02.09.24 O.J Checked: O. Jones Е DWELLING RELOCATION D DWELLING RELOCATION 03.07.24 O.J Accredited Building Designer DECOR AMENDMENTS С 28.06.24 O.J Designer Name: J.Pfeiffer DWELLING RELOCATION В Date: Int: Accreditation No: CC2211T Rev: Amendment:

**Sorell Council** 

Development Application: 5.2024.322.1 -Response to Request for Information - 3 Linden Road, Primrose Sands - P2.pdf Plans Reference: P2 Date received:13/12/2024

tasbuilthomes Your Complete Building Solution

Tasbuilt Manufactured Homes & Cabins P.O Box 274, Deloraine Tasmania 7304 Ph: 03 6393 1013 admin@tasbuilthomes.com.au

FLOOR PLAN SCALE 1:100







ENGINEERING PLUS BUILDING DESIGN PROJECT MANAGEMENT

PLUMBING FIXTURE	ABBREVIATION
BASIN	В
BATH	BTH
SHOWER	SHR
CLOTHES WASHING MACHINE	CWM
DISHWASHING MACHINE	DWM
FLOOR WASTE GULLY	FWG
OVERFLOW RELIEF GULLY	ORG
HOT WATER CYLINDER	HWC
SINK	S
TROUGH, LAUNDRY	TR(L)
WATER CLOSET PAN	W.C
INSPECTION OPENING	10
DOWNPIPE	DP

#### PLUMBING NOTES:

ALL DRAINAGE WORK SHOWN IS PROVISIONAL ONLY AND IS SUBJECT TO AMENDMENT TO COMPLY WITH THE REQUIREMENTS OF THE LOCAL AUTHORITIES. ALL WORK IS TO COMPLY WITH THE REQUIREMENTS OF AS/NZS

3500 & THE TASMANIAN PLUMBING CODE. AND MUST BE CARRIED OUT BY A LICENCED TRADESMAN ONLY.

LEGEND OF DIAMETERS TROUGH = 50mm SINK = 50mm BATH = 40mm BASIN = 40mm SHOWER = 50mm WC = 100mm SEWER = 100mm DIA. uPVC ORG OVERFLOW RELIEF GULLY EV VENT DP DOWNPIPE 90mm DIA STORMWATER = 100mm DIA uPVC

THE INSTALLATION OF WATER PIPE LINES, INSTALLED WITH THE PRODUCT HIS 311 REHAU, WILL REQUIRE THE MAIN COLD WATER LINE TO BE DN 25mm WITH DN 16mm BRANCHES & HOT WATER MAIN LINES TO BE DN 20mm WITH DN 16mm BRANCHES TO FIXTURES, ALL OTHER PRODUCTS USED ARE TO COMPLY WITH THE REQUIREMENTS OF AS/NZS 3500.5.2021 & AS/NZS 3500.1.2021

HOT WATER INSTALLATION SHALL DELIVER HOT WATER TO ALL SANITARY FIXTURES USED FOR PERSONAL HYGIENE AT 50deg C. KITCHEN SINK & LAUNDRY SHALL BE 60deg C TO COMPLY WITH REQUIREMENTS OF AS/NZS 3500.5.2021 SECTION 3.4



- A MINIMUM OF 150 MM OF SUB FLOOR CLEARANCE IS TO BE PROVIDED BETWEEN FINISHED SURFACE LEVEL & THE UNDERSIDE OF THE FLOOR BEARER.
- A MINIMUM OF 6000 MM2 PER METRE OF SUB FLOOR VENTILATION IS TO BE UNIFORMLY DISTRIBUTED AROUND THE EXTERNAL AND INTERNAL WALLS OF THE BUILDING.



EAVE & SOFFIT CONSTRUCTION ABCB VOLUME 2 PART 7.4.5 EAVE WIDTH - 300MM

SOFFIT / EAVE LINED WITH 'HARDIFLEX' CEMENT SHEETING

- TRIMMERS LOCATED WITHIN 1200 MM OF EXTERNAL CORNERS TO BE SPACED @ 500 MM CENTERS, REMAINDER OF SHEET 700 MM CENTERS
- FASTENER / FIXINGS WITHIN 1200 MM OF EXTERNAL CORNERS @ 200 MM CENTERS, REMAINDER OF SHEET 300 MM CENTERS





	ISSUED FOR CONSTRUCTION				
	Copyright ©				
Client: D. CUNDY & W. GLYNN Project: PROPOSED DWELLING					
vn: 30.05.24 O. Jones O. Jones	Address: 3 LI PRI	NDEN ROA MROSE SAN 0417 545 813	D, NDS		
Shown @ A3	jack@engineeringplus. trin@engineeringplus.	.com.au PLU	SLIN LEALANNA 102 S BUILDING DESIGN PROJECT MANAGEMENT CIVIL/STRUCTURAL ENGINEERING		
l Building Designer Name: J.Pfeiffer ion No: CC2211T		Drawing No: 1012024	A06 / A22	Rev 1	

#### **DOWNPIPES - NCC PART 7.4**

MAX. 12M GUTTER LENGTH PER DOWNPIPE LOCATED AS CLOSE AS POSSIBLE TO VALLEY GUTTERS SELECTED IN ACCORDANCE WITH TABLES 7.4.4a TO 7.4.4c

**OVERFLOW MEASURES** IN ACCORDANCE WITH 7.4.7 AND TABLE 7.4.4a & 7.4.4b AND FIG. 7.4.7a TO 7.4.7d END STOP WEIR 100mm MIN CLEAR WIDTH, INSTALLED 25mm BELOW FASCIA TOP NOT SUITABLE WHEN END-STOP ABUTS WALL INVERTED NOZZLE INSTALLED WITHIN 500mm OF GUTTER HIGH POINT 100x50mm MIN, NOZZLE SIZE - MIN, 25mm BELOW FASCIA TOP FRONT FACE WEIR 200mm CLEAR WIDTH - 20mm CLEAR HEIGHT INSTALLED MIN. 25mm BELOW FASCIA TOP RAINHFAD 75mm DIA HOLE IN OUTWARD FACE - CENTERLINE 100mm BELOW FASCIA TOP

#### **GUTTERS - NCC PART 7.4**

FALL NOT LESS THAN 1:500 SUPPORT BRACKETS FIXED AT STOP ENDS, CORNERS AND MAX. 1.2m CENTRES VALLEY GUTTERS TO BE DIMENSIONED IN ACCORDANCE WITH TABLE7.4.4c HAVE A ROOF PITCH AND SIDE ANGLE OF NOT LESS THAN 12.5deg HAVE A MIN. FREEBOARD OF NOT LESS THAN 15mm

#### **OVERFLOW MEASURES**

IN ACCORDANCE WITH 7.4.6 AND TABLE 7.4.4a & 7.4.4b AND FIGURE 7.4.6a & 7.4.6b FRONT FACE SLOTTED GUTTER MIN SLOT OPENING 1200mm/ GUTTER m LOWER EDGE OF SLOT INSTALLED 25mm BELOW FASCIA TOP CONTROLLED BACK GAP PERMANENT MIN. 10mm SPACER BETWEEN GUTTER & FASCIA ONE PER BRACKET - MIN. 50mm WIDE GUTTER INSTALLED MIN. 10mm BELOW FASCIA TOP

## Sorell Council

Development Application: 5.2024.322.1 -Response to Request for Information - 3 Linden Road, Primrose Sands - P2.pdf Plans Reference: P2 Date received:13/12/2024



Tasbuilt Manufactured Homes & Cabins P.O Box 274, Deloraine Tasmania 7304 Ph: 03 6393 1013 admin@tasbuilthomes.com.au

		.5.00°
	Image: Section (Section (	
2.00°	11.00°	
		11
5.00°	RC SC/	DOF PLAN ALE 1:100
		E D

#### COLORBOND 'CUSTOM ORB'

- MINIMUM PITCH 5 DEGREES.
- CORROSION PROTECTION IN ACCORDANCE WITH BCA TABLE 3.5.1.1. END LAP OF SHEETS 5-15 DEGREES - MINIMUM 200MM. •

#### COLORBOND 'TRIMDEK

- MINIMUM PITCH 2 DEGREES.
- ٠
- ٠ END LAP OF SHEETS

- ROOFING MATERIAL.
- •
- REFLECTIVE FOIL INSULATION TO BE FITTED TO UNDERSIDE OF SHEETS.



1	MINOR AMENDMENT	25.11.24	W.T	Date Draw
0	ISSUED FOR CONSTRUCTION	07.10.24	0.J	Drawn:
Е	DWELLING RELOCATION	02.09.24	O.J	Checked:
D	DWELLING RELOCATION	26.07.24	0.J	Scale: As S
С	DECOR AMENDMENTS	03.07.24	0.J	Accredited
В	DWELLING RELOCATION	28.06.24	0.J	Designer I
Rev:	Amendment:	Date:	Int:	Accreditat



- ROOF CLADDING. NCC PART 7.2 SHEET ROOFING
- COLORBOND 'CUSTOM ORB' METAL SHEETING INSTALLED IN ACCORDANCE WITH THIS PART, AS 1562.1 AND MANUFACTURERS RECOMMENDATIONS.
- COLORBOND 'TRIMDEK' METAL SHEETING INSTALLED IN ACCORDANCE WITH THIS PART, AS 1562.1 AND MANUFACTURERS RECOMMENDATIONS.
- REFER TO LYSAGHT ROOFING & WALLING MANUAL FOR FULL DETAILS ON SHEET INSTALLATION, FIXINGS & FLASHINGS

  - CORROSION PROTECTION IN ACCORDANCE WITH BCA TABLE 3.5.1.1. 2-5 DEGREES - MINIMUM 250MM
- ABOVE 15 DEGREES MINIMUM 150 MM.
- RIDGE LINE VALLEY TO BE TURNED UP (STOP ENDED).
- FASTENERS TO BE MADE OF COMPATIBLE MATERIAL WITH
  - CREST FIXINGS OF END SPANS @ EVERY SECOND RIB AND INTERNAL SPANS @ EVERY THIRD RIB.
  - WHERE POSSIBLE SHEETS TO BE LAID WITH SIDE LAPS FACING AWAY FROM PREVAILING WEATHER.
- R3.5 INSULATION BATTS TO ROOF SPACE ABOVE CEILING LINING.
- RECOMMENDED FIXINGS FOR SEVERE EXPOSURE CONDITIONS TO AS 3566
- USE CLASS 4 MATERIALS FOR SEVERE EXPOSURE & STAINLESS STEEL FOR VERY SEVERE COASTAL ENVIRONMENTS.



#### INSULATION

PROVIDE THERMAL INSULATION IN ACCORDANCE WITH THE FOLLOWING

#### **CEILING**

R5 "ROCKWOOL" BULK INSULATION OR R5 GLASSWOOL BATTS BETWEEN CEILING JOISTS WITH UNDER ROOF COMPOSITE FOIL & R1.5 BLANKET

#### EXTERNAL WALLS

'TYVEK' HOUSE WRAP (OR SIMILAR) TO EXTERNAL FACE R2.5 GLASSWOOL BATTS BETWEEN STUDS

SUB FLOOR 85mm R2.5 POLYSTYRENE BETWEEN JOISTS

NOTE: CERTIFICATE OF COMPLIANCE TO BE PROVIDED BY THE PERSON ENGAGED TO INSTALL INSULATION TO WALLS AND CEILING AND COPY OF SAME TO BE FORWARDED TO THE BUILDING SURVEYOR.

#### WALL FRAMING

ALL TIMBER FRAMING GENERALLY IS TO COMPLY WITH THE REQUIREMENTS OF AS1684 [RESIDENTIAL TIMBER FRAMED CONSTRUCTION} & THE BCA CODE PART 3.4.3 WALL FRAMING TO BE MGP10 RADIATA PINE. COMMON STUDS - 90x35 @ 450 CRS. NOGGINGS - 90x35 OPEN STUDS - 90x35 TOP & BOTTOM PLATES - 90x35 BRACING TO AS 1684 & NCC CODE

#### **SLABS & FOOTINGS**

ALL CONCRETE PREPARATION INCLUDING EXCAVATIONS & PLACEMENT OF REINFORCEMENT IS TO BE SEEN & APPROVED BY COUNCIL BUILDING INSPECTOR AND/OR ENGINEER PRIOR TO POURING ANY CONCRETE. REFER TO ENGINEERS DRAWINGS FOR FOOTING & CONCRETE SLAB DETAILS. REFER TO SOIL REPORT FOR CLASSIFICATION & SITE MAINTENANCE REOUIREMENTS.

#### EXTERNAL CLADDING

EXTERNAL WALL CLADDING REFER ELEVATIONS **REFER ELEVATIONS** SUB FLOOR

#### **WINDOWS**

COLOURED ALUMINIUM WINDOW FRAMES. AWNING & HORIZONTAL SLIDING SASHES, REVEALS AND TRIMS TO OWNERS SPECIFICATIONS ALL FIXINGS AND FLASHING TO MANUFACTURERS RECOMMENDATIONS REFER AS 1288 & CURRENT NCC STANDARDS.

#### PLASTER

admin@tasbuilthomes.com.au

LINE WALLS AND CEILINGS INTERNALLY WITH 10mm PLASTERBOARD SHEETING. SQUARE SET MOULDING TO CEILING JUNCTION WITH WALL. PLASTERBOARD LININGS TO WET AREAS TO BE "VILLABOARD", W.R. BOARD OR OTHER APPROVED WATERPROOF LINING

#### WET AREAS

WATERPROOFING OF WET AREAS WITHIN THE DWELLING IE: SHOWERS, BATHROOMS WATERPROOFED IN ACCORDANCE WITH BCA PART 3.8.1.1 TO 3.8.1.27 INCLUSIVE AND FIG NOS 3.8.1.5 TO 3.8.1.16 INCLUSIVE. AND TABLE 3.8.1.1

#### EAVES

OVERHANG ROOFS 300mm WHERE ROOFS OVERHANG LINE WITH FLEX BOARD SHEETING IN ACCORDANCE WITH AS 1684.2 7.2.24

#### FASCIA

COLORBOND PREFORMED METAL FASCIA AND GUTTER INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. COLOUR TO OWNERS SPECIFICATIONS.

ROOF FRAMING

COLORBOND CUSTOM ORB, COLOUR TO OWNERS SPECIFICATIONS APPROVED ROOF TRUSSES INSTALLED STRICTLY IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. ALL TRUSS FIXING DETAILS TO BE ADHERED TO. FIX TRUSSES TO TOP PLATES WITH TRIP-L-GRIP CONNECTORS. PROVIDE DIAGONAL BRACING FIXED TO TOP CHORDS AT A MAX ANGLE OF 30° TO RIDGE. ANCHOR STRAP BRACING WITH 6 No 30x1.5 NAILS INTO DOUBLE TOP PLATE. WIND BRACING TO COMPLY WITH NCC

#### CAPPINGS & FLASHINGS

ALLOW FOR PREFORMED CAPPINGS & FLASHINGS NECESSARY TO ENSURE THE INTEGRITY OF THE ROOF STRUCTURE AGAINST WATER PENETRATION. INSTALL FLASHINGS TO ROOF VENTS, FLUES ETC. ALTERNATIVELY USE "DEKTITE" OR SIMILAR FITTINGS TO ROOF PENETRATIONS

**GUTTERS** 

INSTALL SELECTED COLORBOND QUAD GUTTERS OR AS NOMINATED BY THE OWNER, LAP GUTTERS 75MM IN THE DIRECTION OF FLOW, RIVET & SEAL WITH AN APPROVED SILICONE SEALANT. VALLEY GUTTERS TO BE 450 WIDE COLORBOND STEEL TO MATCH ROOF. LAP 150MM UNDER ROOF CLADDING AND TURN UP ON BOTH SIDES. LAP 150MM IN DIRECTION OF FLOW

#### DOWNPIPES

DOWNPIPES TO BE DN90 PVC PAINTED TO MATCH GUTTERING. FIX WITH WALL BRACKETS @ 1200CC BEGINNING AT DOWNPIPE ELBOW. MAXIMUM CENTRES FOR GUTTERS TO BE 12000







#### FIGURE 8 - EXTERNAL WALL **VENTED CLADDING SYSTEM - SUSPENDED TIMBER FLOOR BUSHFIRE MESH WHEN REQUIRED TO AS3959**



1	MINOR AMENDMENT	25.11.24	W.T	Date Drawn: 30.05.24	Ad
0	ISSUED FOR CONSTRUCTION	07.10.24	0.J	Drawn: O. Jones	
Е	DWELLING RELOCATION	02.09.24	O.J	Checked: O. Jones	Mol
D	DWELLING RELOCATION	26.07.24	O.J	Scale: As Shown @ A3	jac trin
С	DECOR AMENDMENTS	03.07.24	0.J	Accredited Building Des	sian
В	DWELLING RELOCATION	28.06.24	0.J	Designer Name: J.Pfei	iffer
Rev:	Amendment:	Date:	Int:	Accreditation No: CC22	117





1012024 A08 / A22



Development Application: 5.2024.322.1 -Response to Request for Information - 3 Linden Road, Primrose Sands - P2.pdf Plans Reference: P2 Date received:13/12/2024



Tasbuilt Manufactured Homes & Cabins P.O Box 274, Deloraine Tasmania 7304 Ph: 03 6393 1013 admin@tasbuilthomes.com.au



±		20111121		Duce Dram
0	ISSUED FOR CONSTRUCTION	07.10.24	O.J	Drawn:
Е	DWELLING RELOCATION	02.09.24	O.J	Checked:
D	DWELLING RELOCATION	26.07.24	O.J	Scale: As S
С	DECOR AMENDMENTS	03.07.24	O.J	Accredited
В	DWELLING RELOCATION	28.06.24	O.J	Designer N
lev:	Amendment:	Date:	Int:	Accreditati



Area Schedule (Gross Building)					
Name Area Area (sq)					
PROPOSED DWELLING	128.14 m <sup>2</sup>	13.79			
CARPORT	24.00 m <sup>2</sup>	2.58			
DECK 83.54 m <sup>2</sup> 8.99					
	235.68 m <sup>2</sup>	25.37			

# ISSUED FOR CONSTRUCTION

Copyright C









-				
1	MINOR AMENDMENT	25.11.24	W.T	Date Drav
0	ISSUED FOR CONSTRUCTION	07.10.24	O.J	Drawn:
Е	DWELLING RELOCATION	02.09.24	O.J	Checked:
D	DWELLING RELOCATION	26.07.24	O.J	Scale As
С	DECOR AMENDMENTS	03.07.24	O.J	Accredited
В	DWELLING RELOCATION	28.06.24	O.J	Designer
Rev:	Amendment:	Date:	Int:	Accreditat



1	MINOR AMENDMENT	25.11.24	W.T	Date Drav
0	ISSUED FOR CONSTRUCTION	07.10.24	O.J	Drawn:
E	DWELLING RELOCATION	02.09.24	O.J	Checked:
D	DWELLING RELOCATION	26.07.24	O.J	Scale: As
С	DECOR AMENDMENTS	03.07.24	O.J	Accredited
В	DWELLING RELOCATION	28.06.24	O.J	Designer
Rev.	Amendment:	Date:	Int	Accreditat



Tasbuilt Manufactured Homes & Cabins P.O Box 274, Deloraine Tasmania 7304 Ph: 03 6393 1013 admin@tasbuilthomes.com.au



#### LEGEND PENDANT BY CLIENT $\otimes$ LED DOWN LIGHT $\odot$ 8 WALL MOUNTED LIGHT WALL MOUNTED BUNKER LIGHT $\otimes$ EXHAUST FAN ONE WAY SWITCH Ъ IXL 3 IN 1 HEAT/FAN/LIGHT TO BATHROOMS PROVIDE 4 No. HEAT GLOBES. SELECTED BY OWNER & INSTALLED BY BUILDER FLUORESCENT SENSOR LIGHT $\mathbb{V}$ TWINSPOT SENSOR LIGHT

BUILDER TO CONSULT WITH CLIENT/S ABOUT ALL ELECTRICAL WORK PRIOR TO COMMENCING CONSTRUCTION. ALL LIGHTING SHOWN IS INDICATIVE ONLY AND TO BE REVIEWED AND APPROVED WITH BUILDER.

MAXIMUM 5W/m<sup>2</sup> LIGHTING FOR INTERNAL USE MAXIMUM 4W/m<sup>2</sup> LIGHTING FOR EXTERNAL USE IN ACCORDANCE WITH NCC 3.12.5.5









ENGINEERIM PILUS BUILDING DESIGN PROJECT MANAGEMENT

SPECIFIC TIEDOWNS (JD4)				
WIND CLASSIFICATION SPAN SPACING I SPACING ATERIAL	N3 (41m/s) 12000 Max 900 Max 450 Max SHEET STEEL			
PLATE TO T TIEDOWN	I-100mm MIO masonry anchor with BROAD HEAD WASHER TO EACH END OF BRACING UNIT OR CHEMSET IOMM THREADED ROD WITH BROADHEAD WASHER AND NUT TO EACH END OF BRACING UNIT			
PLATE TO SLAB AL WALLS TION FOR TYPE 'A' BRACING	I-100mm M10 dynabolts with broad head washer @ 1200 ctrs OR I-75mm masonry nail @ 1200max. ctrs			
AL & INTERNAL B <u>EARING) WALLS</u> TION FOR TYPE 'B' BRACING	I-100mm MIO masonry anchor with broad head washer @ 1200 ctrs OR chemset 10mm threaded rod with broadhead washer and nut @ 1200ctrs			
JOISTS TO BEARER	MIN. 2-75X3.05MM SKEW NAILS 30X0.8MM G.I. STRAP 4-3022.8MMØ NAILS EACH END OR 2 FRAMING ANCHORS			
PLATE TO TIMBER FRAME GENERALLY	75mm No.14 type17 screw with broad head washer @ 1200 Ctrs Max generally			
PLATE TO TIMBER FLOOR AT BRACING UNITS	I-MIO BOLT WITH BROAD HEAD WASHER THROUGH PLATE, JOIST & BEARER AT EACH END OF BRACING UNIT			
BOTTOM PLATES DS	30 x 0.8MM g.i. looped strap @ 1200 Max Ctrs with 6/30x2.8MMØ nails Each end of strap			
S OR TRUSS TO TOP OR BEAM	30 x 0.8MM G.I. LOOPED STRAP WITH 4/30 x 2.8MMØ NAILS EACH END OR 2 FRAMING ANCHORS 4/30X2.8MMØ NAILS EACH LEG			
8 & PLATES TO AT EACH END OF G	30 x 0.8MM G.I. LOOPED STRAP WITH 6/30 x 2.8MMØ NAILS EACH END & I/MI2 BOLT TO BOTTOM PLATE TO FLOOR AT EACH SIDE OF OPENING			
5 & TOP PLATES PAN OF OPENING	30 x 0.8mm g.i. looped strap @ 1200 Cts with 8/30 x 2.8mmØ nails each side or 1/M12 bolt through top plate & lintel			
IS OR TRUSSESS TO ATES	EACH RAFTER OR TRUSS 30 X 0.8MM G.L. LOOPED STRAP / CYCLONE STRAP WITH 8/30 X 2.8MMØ NAILS EACH SIDE OR   FRAMING ANCHORS EACH SIDE WITH 4/2.8MMØ NAILS EACH LEG.			
ATTENS TO TRUSSESS TERS	75 LONG NO. 14, TYPE 17 BATTEN SCREW OR I FRAMING ANCHOR WITH 4/2.8MMØ NAILS EACH LEG.			
	REFER TO ASI684.2			
PLYWOOD BRACING - FIX PLYWOOD PANELS WITH MINIMUM 



CONSTRUCTION DETAIL	FOR	3.0	KN/M	PLYWOOD	BRACE

MINIMUM PLYWOOD THICKNESS (MM)					FIXING REQUIREMENTS (MM	)	
PLYWOOD STRESS GRADES	F8	FII	FI4	F27		TOP & BOTTOM PLATE	150
	PI	PLY THICKNESS				VERTICAL EDGES	150
STUD SPACING						INTERMEDIATE STUDS	300
450MM	7	4.5	4	4			
600mm	9	7	6	4.5			

#### CONSTRUCTION DETAIL FOR 6.0 KN/M PLYWOOD BRACE

		1 OIX	0.0 10			BIRACE	
MINIMUM PLYWOOD	THICK	NESS (	MM)			FIXING REQUIREMENTS (MM	)
PLYWOOD STRESS GRADES	F8	FII	FI4	F27	]	TOP & BOTTOM PLATE	50
	P	LY THI	CKNES	S	]	VERTICAL EDGES	150
STUD SPACING					]	INTERMEDIATE STUDS	300
450mm	7	6	4	4	]		
600мм	9	7	6	4.5	]		
BRACE STRENGTH ·	- 90	00mm W	IDE PL'	Y BRAC	E = 5.4	KN BRACING CAPACITY	

STRUCTURAL PLYWOOD PANEL BRACE (PB) - BRACING CAPACITY 3.4 KN/M & 6.0 KN/M SCALE NTS



DOUBLE DIAGONAL METAL TENSION STRAP BRACE (DMB) BRACING CAPACITY 3.0 KN/M

METAL TENSION STRAP BRACE - BRACING CAPACITY 0.8 KN/M & 3.0 KN/M SCALE: NTS

bracing capacity 0.8 kN/m

TOP & BOTTOM PLATES - STRAPPED TO STUDS TOP & BOTTOM WITH 30 X 0.8MM G.I. STRAP LOOPED OVER PLATES AND FIXED TO STUDS WITH 4/30X2.8MMØ NAILS EACH SIDE OF STRAP



DETAIL A STRAPPING OF TOP & BOTTOM PLATES AT ENDS OF BRACING UNITS SCALE: NTS

2/ 30 x 0.8MM G.I. STRAP LOOPED OVER TOP PLATES & EXTERNAL FRAMES. FIXED WITH 4/30X2.8MMØ NAILS EACH END OF STRAP



FIXING TOP PLATES OF INTERNAL BRACED WALLS TO EXTERNAL WALLS SCALE: NTS



FIXING TOP PLATES OF INTERNAL BRACED WALLS TO ROOF/CEILING FRAMING SCALE: NTS

STRUCTURAL WALL BRACING - AS 1684.2 2010 WIND CLASSIFICATION N3 REFER TO AS 1684.2 - 2006 FOR OTHER STRUCTURAL FRAME BRACING DETAILS



Tasbuilt Manufactured Homes & Cabins P.O Box 274, Deloraine Tasmania 7304 Ph: 03 6393 1013 admin@tasbuilthomes.com.au



Development Application: 5.2024.322.1 -Response to Request for Information - 3 Linden Road, Primrose Sands - P2.pdf Plans Reference: P2 Date received:13/12/2024

1	MINOR AMENDMENT	25.11.24	W.T	Date Draw
0	ISSUED FOR CONSTRUCTION	07.10.24	O.J	Drawn:
Е	DWELLING RELOCATION	02.09.24	O.J	Checked:
D	DWELLING RELOCATION	26.07.24	0.J	Scale: As S
С	DECOR AMENDMENTS	03.07.24	0.J	Accredited
В	DWELLING RELOCATION	28.06.24	O.J	Designer N
Rev:	Amendment:	Date:	Int:	Accreditati



TOP & BOTTOM PLATE CONNECTION -STRAPPED TO STUDS TOP & BOTTOM WITH 30 x 0.8Mm G.I. STRAP LOOPED OVER PLATES AND FIXED TO STUDS WITH 4/30x2.8MmØ

METAL ANGLE BRACE

SPECIFIC TIEDOWN I- MIO FIXING WITH BROAD HEAD WASHER AS SPECIFIED EACH END OF BRACING UNIT. MINIMUM 5.4 KN UPLIFT CAPACITY REFER TO TIEDOWN SCHEDULE & DETAIL A





STAIR CONSTRUCTION - BCA VOLUME 2 PART 3.9.1.

- A STAIR FLIGHT NO MORE THAN 18 RISERS AND NOT LESS THAN 2. TREADS TO BE OF SOLID CONSTRUCTION WHERE THEY HAVE A RISE IN EXCESS OF 10M OR CONNECTS MORE THAN 3 STORIES.
- MAXIMUM OF 3 WINDERS IN PLACE OF A QUARTER LANDING OR 6 WINDERS IN PLACE OF A HALF LANDING.
- THE OPEN GAP BETWEEN TREAD, WHERE INSTALLED IS TO BE LESS than 125mm.
- LANDINGS TO BE NOT LESS THAN 750MM MEASURED AT 500MM FROM THE INSIDE EDGE OF THE LANDING

STAIR WIDTH 900mm wide TREADS WIDTH: 240mm MINIMUM RISERS HEIGHT: 190μμ ΜΔΧΙΜΠΜ

TREADS TO HAVE NON-SLIP FINISH OR A SUITABLE NON-SKID STRIP NEAR THE EDGE OF THE NOSINGS.

CEILING HEIGHT IMMEDIATELY ABOVE STAIR NOSINGS 2.0M MINIMUM

STAIR RISER & GOING DIMENSIONS BCA VOLUME 2 FIGURE 3.9.1.2						
	RISER (R)		GOING (G) TREAD		SLOPE RATIO (2R + G)	
STAIR TYPE	МАХ	MIN	мах	MIN	мах	MIN
STAIR (OTHER THAN SPIRAL)	190	115	355	240	700	550
SPIRAL	220	140	370	210	680	590





### OPEN RISER STAIR CONSTRUCTION DETAIL SCALE 1:20

tasbuilthomes Your Complete Building Soluti

Tasbuilt Manufactured Homes & Cabins P.O Box 274, Deloraine Tasmania 7304 Ph: 03 6393 1013 admin@tasbuilthomes.com.au

BALUSTRADING - BCA VOLUME 2 PART 3.9.2

- BALUSTRADE HEIGHT TO BE A MINIMUM OF 1000MM FROM THE FINISHED FLOOR LEVEL AT LANDINGS AND 865MM FROM THE NOSING OF THE STAIR TREAD IMMEDIATELY BELOW.
- OPENINGS IN THE BALUSTRADE TO BE LESS THAT 125MM TO PREVENT A
- 125MM SPHERE FROM PASSING THROUGH ANY PART OF THE BALUSTRADE.
- VERTICAL BALUSTERS TO BE PREVENTED FROM CLIMBING WHERE STAIR OR
- LANDING LEVEL IS GREATER IN <u>FALL HEIGHT</u> THAN 4.0 METRES. STAINLESS STEEL WIRE BALUSTRADES TO BE INSTALLED IN COMPLIANCE WITH BCA TABLE 3.9.2.1



### HANDRAIL CONSTRUCTION DETAIL



### TIMBER HANDRAIL & BALUSTRADE scale 1:50



BETWEEN FLOOR JOISTS

HANDRAIL SECTION DETAIL SUPPORTS FIXED TO DECK JOISTS STAINLESS STEEL WIRE BALUSTRADE SHOWN SCALE 1:20

HANDRAIL POST FIXED TO JOIST WHERE POST IS TERMINTAED AT

LOOR LEVEL - FIX POST WITH

WITH BROAD HEAD WASHERS

#### STAINLESS STEEL WIRE BALUSTRADE CONSTRUCTION DETAILS 3MM STAINLESS STEEL WIRE

- ΙΧΙΘΙΔΥ
- WIRE SPACING @ 100mm SUPPORT POSTS @ 900MM
- TENSION 1705 NEWTON
- DEFLECTION 6MM (2KG MASS)

FOR ALTERNATIVE CONSTRUCTION & SPACINGS REFER TO BCA TABLE 3.9.2.1 ALTERNATIVE DESIGNS FOR STAINLESS STEEL BALUSTRADES TO BE PROVIDED TO BUILDING SURVEYOR FOR CERTIFICATION PRIOR TO ANY CONSTRUCTION







HANDRAIL SECTION DETAIL WITH TIMBER BALUSTRADE scale 1:20



Development Application: 5.2024.322.1 -Response to Request for Information - 3 Linden Road, Primrose Sands - P2.pdf Plans Reference: P2 Date received: 13/12/2024

	1	MINOR AMENDMENT	25.11.24	W.T	Date Draw
	0	ISSUED FOR CONSTRUCTION	07.10.24	O.J	Drawn:
	Е	DWELLING RELOCATION	02.09.24	O.J	Checked:
	D	DWELLING RELOCATION	26.07.24	O.J	Scale As S
	С	DECOR AMENDMENTS	03.07.24	O.J	Accredited
	В	DWELLING RELOCATION	28.06.24	0.J	Designer N
ĺ	Rev:	Amendment:	Date:	Int:	Accreditati



WIRE TIE SPACERS @ 900MM TENSION 1705 NEWTON DEFLECTION 6MM (2KG MASS)





## WATERPROOFING & WATER RESISTANCE REQUIREMENTS FOR BUILDING ELEMENTS IN WET AREAS



# tasbuilthomes

Your Complete Building Solutions

Tasbuilt Manufactured Homes & Cabins P.O Box 274, Deloraine Tasmania 7304 Ph: 03 6393 1013 admin@tasbuilthomes.com.au

### FALLS IN FLOOR FINISHES

2.3 REQUIREMENTS FOR FALL

2.3.1 FALLS IN SUBSTRATE

Where a floor waste is required in a wet area, the membrane shall be applied to a substrate with a minimum 1:100 fall towards the floor waste. NOTE: This requirement is intended to avoid ponding in the substrate.

2.3.2 FALLS IN SHOWER AREA FLOOR FINISHES (CATEGORY 1) The fall to the floor waste in a shower area shall be a minimum of 1:80.

#### 2.3.3 FALLS IN WET AREA FLOOR FINISHES ADJACENT TO SHOWER AREA WHERE THERE IS A FLOOR WASTE (CATEGORY 2)

Where a required floor waste is installed adjacent to a shower area, the minimum fall to the watse shall be 1:100

NOTE: Surface water should drain to the waste. Water should not exit the wet area at doorway thresholds under normal use. Where surface falls are provided in Category 2 area to a Category 1 shower waste, the whole of the Category 2 floor area should have falls provided.

#### 2.3.4 FALLS IN WET AREA FLOOR FINISHES WHERE THERE IS NO FLOOR WASTE (CATEGORY 3)

The shower shall be an enclosed shower. There is no requirement for fall in the Category 3 area. Water shall be retained within the wet area.

NOTE 1: Water retention may be achieved by localized falls away from doors.

#### 2.3.5 WHOLE OF BATHROOM DESIGNED AS AN UNENCLOSED SHOWER

In a whole bathroom designed as an unenclosed shower without a shower screen installed, the floor substrate under the membrane shall have a minimum 1:80 fall.

NOTE 1: If a screed is used, the membrane should be applied on top of the screed.

NOTE 2: For further informaton on accessible bathrooms, refer to AS 1428.1

APPENDIX B

#### **B.1 GENERAL**

The primary consideration for falls in floor finishes is to ensure water does not remain on the finished floor in a manner that can adversely affect the heath or amenity of the occupants or deteriorate building elements.

#### **B.2 FACTORS AFFECTING FALLS**

The ratio of fall achieved in a floor may vary depending upon -(a) finished height requirements at doorways; (b) height of fixtures or fittings; (c) dimensions of the tiles used: adequate falls become more difficult to achieve as the size of the tiles used increases; (d) area of the floor to be drained; and (e) requirements of persons with disabilities.

#### **B.3 FALL RATIOS**

Clause 2.3.2 specifies a fall ratio of 1:80 in shower areas.

Where falls flatter than 1:100 are proposed, the effectiveness of the floor drainage should be confirmed to ensure the primary consideration given in Clause B.1 has been met

#### **B.4 DIAGONAL CUTTING OF TILES**

Tiles may require diagonal cutting in the area around the waste to achieve the required falls, sufficient drainage and to ensure lipping is kept within the guidelines of AS 3958.1.

#### **B.5 DETERMINATION OF PONDING**

When conditions are suitable for drying and all other associated areas have dried, any remaining accumulation of water is deemed ponding. Water retained by surface tension alone should evaporate with 5 hours when local atmospheric conditions are 21°C, 1 013hPa, and 50% relative humidity.









- GENERAL

### Figure 4.3.1(B) — Typical membrane termination at leak control flange with down leg

1	MINOR AMENDMENT	25.11.24	W.T	Date Draw
0	ISSUED FOR CONSTRUCTION	07.10.24	0.J	Drawn:
Е	DWELLING RELOCATION	02.09.24	0.J	Checked:
D	DWELLING RELOCATION	26.07.24	O.J	Scale As S
С	DECOR AMENDMENTS	03.07.24	O.J	Accredited
В	DWELLING RELOCATION	28.06.24	0.J	Designer N
Rev:	Amendment:	Date:	Int:	Accreditati

Sorell Council
Development Application: 5.2024.322.1 -

Response to Request for Information - 3 Linden Road, Primrose Sands - P2.pdf Plans Reference: P2 Date received:13/12/2024



## WATERPROOFING & WATER RESISTANCE REQUIREMENTS FOR BUILDING ELEMENTS IN WET AREAS

**4 12 PENETRATIONS** 

4.12.1 SHOWER AREAS

#### SECTION 2: DESIGN 2.1 DESIGN PRINCIPLES

### 2.1.1 GENERAL

Water shall be retained in a Category 1 area for an enclosed or unenclosed shower. NOTE 1: For classification of categories of risk for wet areas. see Appendix A.

Where a floor waste is required in a shower area or wet area, water shall drain to that floor waste.

In a Category 2 area, the extent of waterproofing shall be a distance of a minimum of 1500mm from the substrate connection of the shower rose.

### 2.2 SHOWER CLASSIFICATION

2.2.1 ENCLOSED SHOWER

For an enclosed shower, the shower screen shall be designed and installed to prevent the spread of water from the Category 1 area.

### 2.2.2 UNENCLOSED SHOWER

An unenclosed shower shall include

#### (a) Type 1 -

(i) a frameless shower screen, unless the shower screen is fitted with seals and deflectors, all of which control the spread of water from the shower area: or (ii) a shower over bath with up to 900mm fixed glass screen.

(b) Type 2 -

- (i) a shower area with a curtain;
- (ii) a shower over bath with curtain;
- (iii) a shower area with no curtain; or

(iv) an area where a shower screen partitions one side of the shower, the entry to the

shower is open, and the spray for the rose can still exit the shower past the screen 1500mm NOTE: Unenclosed shower areas are not suitable for use directly adjacent to exits to wet areas. See Clause 4.8.5 for requirements relating to showers located near exits to wet areas.

## SECTION 3: MATERIALS

## 3.3 MATERIALS

### 3.4 PREFORMED, PREFINISHED SHOWER BASES AND ENCLOSURES

Resin-based substrates and finishes, materials used in the manufacture of preformed, prefinished shower bases and enclosures shall be such that the finished product is waterproof and is in accordance with AS3588

### SECTION 4: INSTALLATION

#### 4.8 WATERSTOPS

### 4.8.2 WATERSTOPS FOR UNENCLOSED SHOWERS

An unenclosed shower shall incorporate a waterstop finishing at the perimeter of the shower area. This clause sets out requirements for waterstops according to the type of unenclosed shower (see Clause 2.2.2.1) as follows:

(a) Type 1 unenclosed showers - A waterstop shall be placed under the splash restriction device and across the opening of the shower of a Type 1 shower screen.

(b) Type 2 unenclosed showers - The waterstop of a Type 2 shower shall be a minimum of 1500mm from the shower rose connection to the wall or the ceiling.

For Type 1 and 2 unenclosed showers, the waterstop shall have the vertical leg finish flush with the finish surface of the floor and, where the waterstop intersects with or joins a wall, the junction shall be waterproof

### 4.8.4 WATERSTOPS FOR ENCLOSED SHOWERS

An enclosed shower shall incorporate a waterstop under the bottom rail of the shower screen and the opening.

4.8.4 WATERSTOPS FOR ENCLOSED SHOWERS WITHOUT HOBS OR SETDOWNS At the extremity of the shower area -

(a) where a shower screen is to be installed, a waterstop shall be positioned so that its vertical leg will finish a minimum of 5mm above the finished floor level, and;

(b) where the waterstop intersects with a wall or is joined, the junction shall be waterproof 4.8.5 SHOWERS LOCATED NEAR EXITS TO WET AREAS

Where the extremity of a shower area is located within 200mm of an exit from a wet area, it shall -(a) be an enclosed shower area as defined in Clause 1.3.31

- (b) have one of the following:
  - (i) A waterstop that finishes a minimum of 5mm above the finished floor level,
  - under the shower screen.
  - (ii) A hob at the extremity of the shower area
  - (iii) A step-down of minimum 15mm from the finished floor level at the extremity of the shower area
- (c) have a vertical waterstop where the shower screen abuts the wall.

NOTE: It is recommended that the floor surface outside the shower area should have fall away from the exit to prevent water escaping from the wet area.

# Sorell Council

tasbuilthomes Your Complete Building Solutions

Tasbuilt Manufactured Homes & Cabins P.O Box 274, Deloraine Tasmania 7304 Ph<sup>.</sup> 03 6393 1013 admin@tasbuilthomes.com.au

Development Application: 5.2024.322.1 -Response to Request for Information - 3 inden Road, Primrose Sands - P2.pdf Plans Reference: P2 Date received:13/12/2024



Penetrations for fixtures such as taps, shower nozzles, recessed soap holders and the like,

tap body to the wall, allowance shall be made for the servicing of tap washers or ceramic disks

NOTE Bond breaker or fillet to suit the membrane at all internal junctions in the niche shown in yellow







Figure A.6(C) - Custom fabricated flanged channel against a wall



Figure 4.8.2(C) — Step-down shower waterstop and cover angle

## - ENCLOSED & UNENCLOSED SHOWERS







1	MINOR AMENDMENT	25.11.24	W.T	Date Draw
0	ISSUED FOR CONSTRUCTION	07.10.24	O.J	Drawn:
Е	DWELLING RELOCATION	02.09.24	0.J	Checked:
D	DWELLING RELOCATION	26.07.24	O.J	Scale As S
С	DECOR AMENDMENTS	03.07.24	O.J	Accredited
В	DWELLING RELOCATION	28.06.24	O.J	Designer N
Rev:	Amendment:	Date:	Int:	Accreditati



## Figure 4.12.4 — Niche in shower wall framework

Figure 4.3.2 — Linear drain single outlet centrally located

## WATERPROOFING & WATER RESISTANCE REQUIREMENTS FOR BUILDING ELEMENTS IN WET AREAS

- BATHS

### SECTION 4: INSTALLATION

#### 4.13 BATHS AND SPAS

#### 4.13.1 GENERAL

Baths and Spas shall be supported to prevent distortion and cracking. Baths and spas that are recessed into the wall shall be installed to allow the water-resistant surface materials of the wall to pass down inside the rim of the bath or spa. The wall substrate shall be connected to the bath with a Type 2 junction sealant, as per Clause 4.11.1, compatible with the membrane.

Where a bath end wall is within a shower area, it shall be treated as a shower area wall.

For insert baths, a waterstop shall be installed around the periphery.

#### **4.13.2 BATHS WITHOUT SHOWERS OVER THEM**

4.13.2.1 BATHS WITHOUT AN INTEGRAL UPSTAND EDGE - INSERT BATHS There shall be full waterproofing of walls around the bath to 150mm above any shower rose connection.

#### 4.13.2.2 BATHS TO BE RECESSED INTO A WALL WITH NO SHOWER OVER THEM

Baths recessed into a wall shall have an integral vertical upstand lip along the side of the bath walls to enable a waterproof junction between the bath and walls. There shall be full waterproofing of bath/wall junctions. The walls around the bath shall be water resistant to 150mm above the bath edge.

### 4.13.3 BATHS WITH SHOWERS OVER THEM

4.13.3.1 BATH ADJOINING A TYPE 2 UNENCLOSED SHOWER A bath installation adjoining a Type 2 unenclosed shower shall be waterproofed as a shower-over-bath installation for fitted or insert baths according to Clause 4.13.3.2 and 4.13.3.3

### 4.13.3.2 BATHS RECESSED INTO A WALL - FITTED BATHS

There shall be full waterproofing of walls around the bath to 150mm above the edge of the bath. There shall be full waterproofing to junctions and penetrations at a minimum of 1800mm from the bath floor.

#### 4.13.3.3 BATHS WITHOUT AN INTEGRAL UPSTAND EDGE - INSERT BATH

There shall be full waterproofing of walls around the bath to 150mm above the edge of the bath. There shall be full waterproofing to junctions and penetrations at a minimum of 1800mm from the bath floor.

### 4.13.4 FREESTANDING BATHS

The extent of waterproofing for freestanding baths with or without a shower over them shall be as for Type 2 unenclosed shower

### 4.13.5 BATH END WALLS ABUTTING A SHOWER

Where a bath end wall is within a shower area, it shall be treated as a shower area wall.

### 4.13.6 SPA BATHS

When installing spa baths, the following shall apply:

(a) Waterproofing underneath spa to 150mm vertical termination to internal spa shell.

(b) Provision of overflow to outer floor to conforming leak control flange to a maximum of 30mm below

waterproofing tanking to spa shell

(c) Where non-proprietary access to the pump is provided, water is to be excluded from entering the access panel.

(d) Pump mountings to be sealed so as not to perforate the membrane.

(e) Provision of ventilation under spa shell to manage condensation

(f) Where drainage is provided under the spa, provisions of that drainage at membrane level with falls to waste



WPM to structural floor or tile bed

### Figure 4.13.6 - Spa and bath compartment detail at bath face



Figure 4.13.3(B) - Shower over bath - Fitted bath - Fitted against wall



Tasbuilt Manufactured Homes & Cabins P.O Box 274, Deloraine Tasmania 7304 Ph: 03 6393 1013 admin@tasbuilthomes.com.au



## Sorell Council

Development Application: 5.2024.322.1 -Response to Request for Information - 3 inden Road, Primrose Sands - P2.pdf Plans Reference: P2 Date received:13/12/2024

FOR FULL INSTALLATION DETAILS REFER TO AUSTRALIAN STANDARD 3740

-				
1	MINOR AMENDMENT	25.11.24	W.T	Date Draw
0	ISSUED FOR CONSTRUCTION	07.10.24	0.J	Drawn:
Е	DWELLING RELOCATION	02.09.24	O.J	Checked:
D	DWELLING RELOCATION	26.07.24	O.J	Scale As S
С	DECOR AMENDMENTS	03.07.24	O.J	Accredited
В	DWELLING RELOCATION	28.06.24	0.J	Designer N
Rev:	Amendment:	Date:	Int:	Accreditati

Tile adhesive

to 150 mm above bath edge sealed to bath lip

Tile finishes

Type 1 sealant to tile/bath junction

Wet area sealant to tile/bath junction

Fitted recessed bath edge

Tile adhesive

Tile finishes

Waterproofing membrane to 150 mm above bath edge

Type 1 sealant to tile/bath junction

Wet area sealant to tile/bath junction

Maximum 5 mm between bath edge and waterstop

Fitted bath



Figure 4.13.2.2(D) — Bath with no shower over it — Fitted bath — Timber-framed wall



Figure 4.13.3(A) - Shower over bath - Fitted bath - Framed or masonry walls



### EARTHWORKS - H1D2

#### ACBC PART 3.2 1. A SITE CUT USING AN UN-RETAINED EMBANKMENT MUST BE-

(a) WITHIN THE ALLOTMENT; AND

(b) NOT WITHIN THE ZONE OF INFLUENCE OF ANY EXISTING STRUCTURE ON THE PROPERTY, OR THE ALLOTMENT BOUNDARY AS DEFINED IN TABLE 3.2.1 AND FIGURE 3.2.1A; AND (c) NOT DEEPER THAN 2m FROM THE NATURAL GROUND LEVEL AT ANY POINT

2. FILL, USING AN UN-RETAINED EMBANKMENT MUST-

- (a) BE PLACED WITHIN THE ALLOTMENT; AND
- (b) BE PLACED AT A GRADIENT WHICH COMPLIES WITH TABLE 3.2.1 AND FIGURE 3.2.1B; AND
- (c) BE PLACED AND MECHANICALLY COMPACTED IN LAYERS NOT MORE THAN 150mm; AND (d) BE NOT MORE THAN 2m IN HEIGHT FROM THE NATURAL GROUND LEVEL AT ANY POINT: AND
- (e) WHERE USED TO SUPPORT FOOTINGS OR SLABS, BE PLACED AND COMPACTED IN ACCORDANCE WITH
- PART 4.2: AND (f) HAVE SURFACE WATER DIVERTED AWAY FROM ANY EXISTING STRUCTURE ON THE PROPERTY OR
- ADJOINING ALLOTMENT IN ACCORDANCE WITH 3.3.3.

DRAINAGE - H2D2 DRAINAGE TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH - AS/NZS 3500.3; OR

## ACBC PART 3.3

#### 3.3.2 Drainage Requirements

- DRAINAGE SYSTEMS MUST BE INSTALLED AS FOLLOWS: (a) AREAS ADJOINING AND UNDER BUILDINGS SURFACE WATER DRAINAGE IN ACCORDANCE WITH 3.3.3; (b) WHERE SITE CONDITIONS EXIST THAT CREATE A NEED FOR SUBSOIL WATER TO BE DIVERTED AWAY FROM FOOTINGS, BASEMENTS, RETAINING WALLS etc. - SUB-SOIL DRAINAGE IN ACCORDANCE WITH 3.3.4; (c) WHERE UNDERGROUND DRAINAGE FROM ROOF AREAS IS REQUIRED OR PERMITTED -
  - UNDERGROUND STORMWATER DRAINAGE IN ACCORDANCE WITH 3.3.5; AND (d) EXCAVATION FOR DRAINS ADJACENT TO EXISTING FOOTINGS MUST BE WITHIN THE AREA DESCRIBED IN FIGURE 3.3.2 AS BEING SAFE FOR EXCAVATION.

**3.3.3 · Surface water drainage** 1. SURFACE WATER MUST BE DIVERTED AWAY FROM A CLASS 1 BUILDING AS FOLLOWS: SLAB-ON-GROUND — FINISHED GROUND LEVEL ADJACENT TO A BUILDING: THE EXTERNAL FINISHED SURFACE SURROUNDING THE SLAB MUST BE DRAINED TO MOVE SURFACE WATER AWAY FROM THE BUILDING AND GRADED TO GIVE A SLOPE OF NOT LESS THAN (SEE FIGURE 3.3.3A) -

(a) 25 MM OVER THE FIRST 1m FROM THE BUILDING-

- (i) IN LOW RAINFALL INTENSITY AREAS FOR SURFACES THAT ARE REASONABLY IMPERMEABLE (SUCH AS CONCRETE OR CLAY PAVING); OR
- (ii) FOR ANY REASONABLY IMPERMEABLE SURFACE THAT FORMS PART OF AN ACCESS PATH OR RAMP PROVIDED FOR THE PURPOSES OF CLAUSES 1.1(2) OR (4)(C) OF THE ABCB STANDARD FOR LIVABLE HOUSING DESIGN; OR

2. 50mm OVER THE FIRST 1m FROM THE BUILDING IN ANY OTHER CASE. SLAB-ON-GROUND — FINISHED SLAB HEIGHTS: THE HEIGHT OF THE SLAB-ON-GROUND ABOVE EXTERNAL FINISHED SURFACES MUST BE NOT LESS THAN (SEE FIGURE 3.3.3A) -

- (a) 100mm ABOVE THE FINISHED GROUND LEVEL IN LOW RAINFALL INTENSITY AREAS OR SANDY WELL-DRAINED AREAS; OR
- (b) 50mm ABOVE IMPERMEABLE (PAVED OR CONCRETE) AREAS THAT SLOPE AWAY FROM THE BUILDING IN ACCORDANCE WITH (A); OR
- (c) 150mm IN ANY OTHER CASE.

3. THE GROUND BENEATH SUSPENDED FLOORS MUST BE GRADED SO THAT THE AREA BENEATH THE BUILDING IS ABOVE THE ADJACENT EXTERNAL FINISHED GROUND LEVEL AND SURFACE WATER IS PREVENTED FROM PONDING UNDER THE BUILDING (SEE FIGURE 3.3.3B).

#### 3.3.4 Subsoil drainage

WHERE A SUBSOIL DRAINAGE SYSTEM IS INSTALLED TO DIVERT SUBSURFACE WATER AWAY FROM THE AREA BENEATH A BUILDING THE SUBSOIL DRAIN MUST-1. BE GRADED WITH A UNIFORM FALL OF NOT LESS THAN 1:300: AND

2. DISCHARGE INTO AN EXTERNAL SILT PIT OR SUMP WITH-(a) THE LEVEL OF DISCHARGE FROM THE SILT PIT OR SUMP INTO AN IMPERVIOUS DRAINAGE LINE NOT LESS THAN 50mm BELOW THE INVERT LEVEL OF THE INLET (SEE FIGURE 3.3.4); AND (b) PROVISION FOR CLEANING AND MAINTENANCE.

#### 3.3.5 Stormwater drainage

WHERE A STORMWATER DRAINAGE SYSTEM IS INSTALLED, IT MUST COMPLY WITH THE FOLLOWING: 1. THE POSITION AND MANNER OF DISCHARGE OF THE STORMWATER DRAINAGE SYSTEM MUST BE TO THE SATISFACTION OF THE APPROPRIATE AUTHORITY

2. THE STORMWATER DRAINAGE SYSTEM MUST BE DESIGNED SO THAT ANY OVERFLOW DURING HEAVY RAIN PERIODS IS PREVENTED FROM FLOWING BACK INTO THE BUILDING.

- 3. COVER TO STORMWATER DRAINS: THE COVER TO 90mm CLASS 6 UPVC STORMWATER DRAINS INSTALLED UNDERGROUND MUST BE NOT LESS THAN-
- (a) UNDER SOIL 100mm; OR
- (b) UNDER PAVED OR CONCRETE AREAS 50mm; OR
- (c) UNDER AREAS SUBJECT TO LIGHT VEHICLE TRAFFIC-
- (i) REINFORCED CONCRETE 75mm; OR (ii) PAVED 100mm.

#### MASONRY - H1D5

DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS3700, AS4773.1, AS4773.2, OR AS2870; AND ACBC PART 5 MASONRY VENEER & CAVITY MASONRY WALL HEIGHT MUST NOT BE GREATER THAN 8.5m WHEN MEASURED

ABOVE THE ADJACENT FINISHED GROUND LEVEL

## Sorell Council tasbuilthomes

Tasbuilt Manufactured Homes & Cabins P.O Box 274, Deloraine Tasmania 7304 Ph: 03 6393 1013 admin@tasbuilthomes.com.au

opment Application: 5.2024.322.1 -Response to Request for Information - 3 inden Road, Primrose Sands - P2.pdf Plans Reference: P2 Date received:13/12/2024

ACBC PART 5.4 - UNREINFORCED SINGLE LEAF MASONRY

- 5.4.2 External Walls
- 1. SINGLE LEAF UNREINFORCED MASONRY WALLS WITH ENGAGED PIERS AND RETURN WALLS MUST COMPLY WITH THE RELEVANT PROVISIONS OF THIS PART AND BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING
- (a) THE ROOF FRAME MUST BE CONNECTED CONTINUOUSLY TO THE TOP OF THE WALL (SEE FIGURE 5.4.2A
- (b) STACK BONDED PIERS MUST HAVE WALL TIES AT EVERY FOURTH COURSE.
- (c) PIER AND RETURN SUPPORTS SIZE LIMITATIONS FOR-
  - (i) SINGLE LEAF UNREINFORCED MASONRY WALLS WITH ENGAGED PIERS, MUST COMPLY WITH TABLE 5.4.2A AND FIGURE 5.4.2B; AND
  - (ii) SINGLE LEAF UNREINFORCED MASONRY WALLS WITH RETURN SUPPORTS, MUST COMPLY WITH TABLE 5.4.2B AND FIGURE 5.4.2C.
- (d) AN ENGAGED PIER OR RETURN WALL MUST BE PROVIDED AT BOTH SIDES OF AN OPENING.
- (e) THE WIDTH OF AN OPENING MUST BE NOT MORE THAN THE SPACING BETWEEN THE ENGAGED PIERS UNLESS THE ENGAGED PIERS EITHER SIDE OF THE OPENING ARE DESIGNED IN ACCORDANCE WITH AS3700.
- (f) ARTICULATION JOINTS MUST BE LOCATED WITHIN 300mm OF VERTICAL SUPPORTS IN ACCORDANCE WITH 5.6.8.
- 2. A CLASS 10A BUILDING CONTAINING NOT MORE THAN 1 STOREY MAY BE ENCLOSED WITH SINGLE LEAF
- MASONRY EXTERNAL WALLS NOT LESS THAN 90mm IN THICKNESS, PROVIDED THAT-(a) THE BUILDING MEASURED IN THE DIRECTION OF THE SPAN OF THE ROOF IS NOT MORE THAN 9m AND THE HEIGHT
  - IS NOT MORE THAN 2.7m; AND
  - (b) ENGAGED PIERS ARE PROVIDED THAT ARE IN ACCORDANCE WITH <u>TABLES 5.4.2C</u> AND <u>5.4.2D</u>; AND (c) THE ROOF DOES NOT PLACE ANY SPREADING THRUST ONTO THE EXTERNAL WALLS; AND

  - (d) THE CLASS 10A BUILDING IS LOCATED IN AN AREA WITH A WIND CLASS OF NOT MORE THAN N2.
- 5.4.3 Internal Walls
- INTERNAL MASONRY MUST BE ENGAGED WITH OTHER WALLS, COMPLY WITH THE RELEVANT PROVISIONS OF THE PART AND MUST BE (a) NOT LESS THAN 75mm THICK: AND
  - (b) SUPPORTED BY EITHER -
  - (i) THE CEILING STRUCTURE IN ACCORDANCE WITH FIGURE 5.4.3a; OR
  - (ii) RETURN WALLS IN ACCORDANCE WITH FIGURE 5.4.3b

### ACBC PART 5.6 - MASONRY COMPONENTS AND ACCESSORIES

5.6.3 - Mortar Mixes MORTAR USED FOR MASONRY CONSTRUCTION MUST COMPLY WITH AS3700 OR AS4773 EXCEPT THAT THE MORTAR MAY BE MIXED BY VOLUME IN THE PROPORTIONS STATED IN TABLE 5.6.3

	GENERAL USE	SUITABLE FOR CONCRETE MASONRY
ROTECTED	1 - 2 - 9	1 - 0 - 5
SENERAL PURPOSE	1 - 1 - 6	1 - 0 - 5
XPOSURE CLASS	1 - 0.5 - 4.5	1 - 0 - 4.2

#### 5.6.4 - Mortar ioints

UNLESS OTHERWISE SPECIFIED, MASONRY BED AND PERPEND JOINTS MUST HAVE A NOMINAL THICKNESS OF 10mm RAKED JOINTS ARE NOT TO BE USED IN SALINE ENVIRONMENTS OR AREAS SUBJECT TO HEAVY INDUSTRIAL AIRBORNE POLLUTION. WHERE RAKED JOINTS ARE USED THE DEPTH OF RAKING MUST NOT BE-

- (a) CLOSER THAN 5MM TO ANY PERFORATION IN CORED UNIT MASONRY OR 20mm IN HOLLOW UNIT MASONRY: OR (b) MORE THAN 5mm FOR MASONRY UNITS AT LEAST 90mm WIDE; OR (c) MORE THAN 10mm FOR MASONRY UNITS AT LEAST 110mm WIDE.

#### 5.6.5 - Wall ties 1. COMPLY WITH AS 2699.1 AND-

- (a) FOR MASONRY VENEER WALLS BE-
  - (i) A MINIMUM OF LIGHT DUTY VENEER TIES IN AREAS WHERE THE DESIGN WIND SPEED IS NOT MORE THAN N2; AND (ii) A MINIMUM OF MEDIUM DUTY VENEER TIES IN AREAS WHERE THE DESIGN WIND SPEED IS MORE THAN N2; AND
- (b) FOR CAVITY MASONRY WALLS BE-
- (i) A MINIMUM OF LIGHT DUTY CAVITY TIES IN AREAS WHERE THE DESIGN WIND SPEED IS N1: AND (ii) A MINIMUM OF MEDIUM DUTY CAVITY TIES IN AREAS WHERE THE DESIGN WIND SPEED IS MORE THAN N1; AND (c) WHERE NON-ENGAGED PIERS ARE PROVIDED, PIERS MUST BE TIED TO WALLS USING MEDIUM DUTY TIES; AND (d) FOR MONOLITHIC OR SOLID MASONRY CONSTRUCTION BE A MINIMUM OF MEDIUM DUTY TIES; AND

2. BE SPACED AND FIXED IN ACCORDANCE WITH TABLES 5.6.5A, 5.6.5B AND 5.6.5C (SEE ALSO FIGURES 5.6.5A AND 5.6.5B); AND

3. BE PROTECTED AGAINST CORROSION IN ACCORDANCE WITH TABLE 5.6.5D

1. VERTICAL ARTICULATION JOINTS MUST BE PROVIDED IN MASONRY WALLS IN ACCORDANCE WITH (2), EXCEPT IN WALLS CONSTRUCTED ON SITES WHERE THE SOIL CLASSIFICATION IS A OR S (SEE 4.2.2).

2. ARTICULATION JOINTS BETWEEN MASONRY ELEMENTS MUST HAVE A WIDTH OF NOT LESS THAN 10mm AND BE PROVIDED (SEE FIGURES 5.6.8A AND 5.6.8B)-

- (a) IN STRAIGHT, CONTINUOUS WALLS WITH OPENINGS LESS THAN 900mm X 900mm OR WALLS WITHOUT OPENINGS AT NOT MORE THAN 6m CENTRES AND WITHIN 4.5m, BUT NOT CLOSER THAN 470mm OF ALL CORNERS; AND
- (b) IN STRAIGHT, CONTINUOUS WALLS WITH OPENINGS MORE THAN 900mm X 900mm AT NOT MORE THAN 5m
- CENTRES AND LOCATED SO THAT THEY ARE NOT MORE THAN 1.2m AWAY FROM OPENINGS; AND (c) WHERE THE HEIGHT OF THE WALL CHANGES BY MORE THAN 20% - AT THE POSITION OF CHANGE IN HEIGHT; AND (d) WHERE A WALL CHANGES IN THICKNESS: AND
- (e) AT CONTROL OR CONSTRUCTION JOINTS IN FOOTINGS OR SLABS; AND
- f) AT JUNCTIONS OF WALLS CONSTRUCTED OF DIFFERENT MASONRY MATERIALS.

3. ARTICULATION JOINTS MUST NOT BE LOCATED ADJACENT TO ARCHED OPENINGS

4. ARTICULATION JOINTS MUST BE FILLED WITH FLEXIBLE SEALANT THAT IS SUPPORTED DURING INSTALLATION BY-(a) A COMPRESSIBLE FOAM OR POLYSTYRENE FILLER (SEE FIGURES 5.6.8D AND 5.6.8E); OR (b) A PURPOSE MADE BACKER ROD (SEE FIGURES 5.6.8C, 5.6.8D, 5.6.8E AND 5.6.8F).

#### ACBC PART 5.7 - WEATHERPROOFING OF MASONRY

(b) MORE THAN 75 MM WIDE.

(a) LESS THAN 35 MM; AND

(b) MORE THAN 75 MM.

#### 5.7.2 Cavities

LEAVES MUST NOT BE-

1. FOR MASONRY VENEER, THE CLEAR WIDTH OF A CAVITY BETWEEN THE MASONRY VENEER AND THE EXTERIOR FACE OF THE SUPPORTING FRAME MUST NOT BE-(a) LESS THAN 25 MM WIDE; AND

2. FOR CAVITY MASONRY, THE CLEAR WIDTH OF A CAVITY BETWEEN THE INNER AND OUTER MASONRY

3. WHERE MASONRY VENEER AND CAVITY MASONRY IN (1) AND (2) ARE CONSTRUCTED ON A

SLAB-ON-GROUND, THE CAVITY MUST BE DRAINED TO THE OUTSIDE IN ACCORDANCE WITH 5.7.5

4. THE EXTERIOR MASONRY LEAF MUST NOT OVERHANG THE EDGE OF THE SLAB BY MORE THAN 15mm



- (b) EMBOSSED BLACK POLYETHYLENE FILM OF HIGH IMPACT RESISTANCE AND LOW SLIP, WITH A NOMINAL THICKNESS OF 0.5mm PRIOR TO EMBOSSING, AND COMPLY WITH CLAUSE 7.6 OF AS/NZS 2904; OR
- (c) POLYETHYLENE COATED METAL, THAT HAS AN ALUMINIUM CORE OF NOT LESS THAN 0.1mm THICK, IS COATED BOTH SIDES WITH BITUMEN ADHESIVE ENCLOSED IN POLYETHYLENE FILM OF NOT LESS THAN 0.1mm THICK ON EACH FACE, AND HAS A NOMINAL TOTAL THICKNESS OF NOT

(d) BITUMEN IMPREGNATED MATERIALS OF NOT LESS THAN 2.5mm THICK, THAT COMPLY WITH CLAUSE 7.5 OF AS/NZS 2904; OR

1. DAMP-PROOF COURSES AND FLASHINGS MUST BE-(a) LOCATED SO AS TO FORM A CONTINUOUS DAMP-PROOFING BARRIER-(i) AROUND THE BOTTOM PERIMETER OF WALLS WHERE CONSTRUCTED ON A CONCRETE SLAB; AND (ii) IN WALLS AND PIERS BELOW SUSPENDED FLOORS; AND (iii) WHERE A MASONRY WALL PASSES THROUGH A ROOF; AND (iv) WHERE A ROOF ABUTS AN EXTERNAL MASONRY WALL; AND (v) TO THE BOTTOM AND TOPS OF WINDOWS AND DOORS AND THE LIKE IN ACCORDANCE WITH (3). EXCEPT A DAMP-PROOF COURSE OR A FLASHING NEED NOT BE PROVIDED TO THE TOP OF A WINDOW OR DOOR WHERE THE OPENING IS PROTECTED BY AN EAVE OF A WIDTH MORE THAN 3 TIMES THE HEIGHT OF THE MASONRY VENEER ABOVE THE OPENING; AND (b) CONTINUOUS THROUGH THE WALL OR PIER AND BE VISIBLE FROM THE OUTSIDE FACE OF THE WALL

 THE LOCATION OF A DAMP-PROOF COURSE, OR FLASHING SERVING AS A DAMP-PROOF COURSE, MUST BE NOT LESS THAN— (a) 150mm ABOVE THE ADJACENT GROUND LEVEL; OR (b) 75mm ABOVE THE FINISHED SURFACE LEVEL OF ADJACENT PAVED, CONCRETED OR LANDSCAPED AREAS THAT

(c) 50mm ABOVE FINISHED PAVED, CONCRETED OR LANDSCAPED AREAS COMPLYING WITH 3.3.3(B)(III) AND PROTECTED FROM THE DIRECT EFFECTS OF THE WEATHER BY A CARPORT, VERANDAH OR THE LIKE; OR

(i) 15mm ABOVE FINISHED PAVED, CONCRETED OR LANDSCAPED AREAS; OR (ii) 0mm ABOVE FINISHED PAVED, CONCRETED OR LANDSCAPED AREAS IF THE DAMP-PROOF COURSE IS PROTECTED FROM THE DIRECT EFFECTS OF THE WEATHER BY A CARPORT, VERANDAH OR THE LIKE.

(a) INSTALLED SO THAT THE FLASHING EXTENDS NOT LESS THAN 150mm BEYOND THE REVEALS ON EACH SIDE OF THE OPENING; AND

(i) ONE COURSE BELOW THE SILL BRICK COURSE; AND

5.7.3 Damp-proof courses and flashings - material DAMP-PROOF COURSES AND FLASHINGS MUST CONSIST OF—

LESS THAN 0.5mm PRIOR TO EMBOSSING: OR

5.7.4 Damp-proof courses and flashings - installation

SLOPE AWAY FROM THE WALL; OR

(d) IN LOW RAINFALL INTENSITY AREAS-

(b) LOCATED NOT MORE THAN-

5.7.5 Weepholes

MINOR AMENDMENT

DWELLING RELOCATION

DWELLING RELOCATION

DECOR AMENDMENTS

DWELLING RELOCATION

0

Е

D

С

В

Rev: Amendment:

3. SILL AND HEAD FLASHINGS SERVING OPENINGS MUST BE-

(d) EMBEDDED NOT LESS THAN 30mm INTO-

(b) AT NOT MORE THAN 1.2 M CENTRES: AND

02.09.24 O.J

(b) BENEATH WINDOW AND DOOR SILLS

ACCESS REQUIRED BY H8P1.

(e) ATTACHED TO THE WINDOW OR WALL FRAMING.

(a) A MATERIAL THAT COMPLIES WITH AS/NZS 2904: OR

(ii) 300mm ABOVE THE OPENING; AND (c) TURNED UP IN THE CAVITY NOT LESS THAN 150mm ABOVE THE OPENING; AND

(i) FOR MASONRY VENEER, THE MASONRY LEAF; AND

(ii) FOR CAVITY MASONRY, THE OUTER MASONRY LEAF; AND

1. EXCEPT WHERE EXCLUDED BY (2), OPEN PERPEND JOINTS (WEEPHOLES) MUST BE CREATED IN THE COURSE IMMEDIATELY ABOVE ANY FLASHING (INCLUDING ABOVE ANY DAMP-PROOF COURSE ACTING AS A FLASHING) AND BE-(a) A MINIMUM OF 50 MM IN HEIGHT, BY THE WIDTH OF THE VERTICAL MORTAR JOINT; AND

2. WEEPHOLES ARE NOT REQUIRED IN THE FOLLOWING LOCATIONS: (a) WHERE HEAD OPENINGS ARE LESS THAN 1.2 M WIDE.

(c) WHERE THE LEVEL OF THE EXTERNAL IMPERVIOUS SURFACE IS ELEVATED FOR THE PURPOSE OF PROVIDING STEP-FREE

5.7.6 Weatherproofing for single leaf masonry walls
 1. WATERPROOF COATING MUST BE APPLIED TO ALL EXTERNAL SINGLE SKIN MASONRY WALLS IN ACCORDANCE WITH: (a) THE COATING MUST EXTEND FROM THE UPPERMOST EXPOSED PART OF THE WALL—

(i) TO A LEVEL ADJACENT TO THE INTERNAL FINISHED FLOOR LEVEL, IF THE EXTERNAL MASONRY WALL LEAF OVERHANGS THE EDGE OF THE SLAB BY NOT LESS THAN 10mm; OR

(ii) 50mm BELOW THE INTERNAL FLOOR LEVEL IF NO EDGE OVERHANG IS PROVIDED.

(b) ACCEPTABLE EXTERNAL WATERPROOF FINISHES ARE-

(i) THREE COATS OF 100% ACRYLIC BASED EXTERIOR QUALITY GLOSS PAINT: OR

(ii) ONE COMPLETE COAT OF CEMENT BASED PAINT AND TWO COATS OF 100% ACRYLIC BASED EXTERIOR QUALITY GLOSS PAINT; OR

(iii) CLEAR WATER REPELLENT, PROVIDED THE WALL IS PROTECTED BY A ROOF OVERHANG OF NOT LESS THAN 1500mm.

2. WINDOWS MUST BE INSTALLED IN ACCORDANCE WITH FIGURE 5.7.6



#### SUBFLOOR VENTILATION - H2D5

### ACBC PART 6.2 SUBFLOOR VENTILATION

- SUBFLOOR SPACES MUST—
- (a) BE PROVIDED WITH OPENINGS IN EXTERNAL WALLS AND INTERNAL SUBFLOOR WALLS IN ACCORDANCE WITH TABLE 6.2.1A FOR THE CLIMATIC ZONES GIVEN IN FIGURE 6.2.1A; AND
- (b) HAVE CLEARANCE BETWEEN THE GROUND SURFACE AND THE UNDERSIDE OF THE LOWEST HORIZONTAL MEMBER IN THE SUBFLOOR IN ACCORDANCE WITH TABLE 6.2.1B (SEE FIGURE 6.2.1B AND FIGURE 6.2.1C).

2. IN ADDITION TO (1), A SUBFLOOR SPACE MUST-

- (a) BE CLEARED OF ALL BUILDING DEBRIS AND VEGETATION; AND
- (b) HAVE THE GROUND BENEATH THE SUSPENDED FLOOR GRADED IN ACCORDANCE WITH 3.3.3; AND (c) CONTAIN NO DEAD AIR SPACES; AND
- (d) HAVE OPENINGS EVENLY SPACED AS FAR AS PRACTICABLE (SEE <u>FIGURE 6.2.1D</u>); AND (e) HAVE OPENINGS PLACED NOT MORE THAN 600mm IN FROM CORNERS.

3. IN DOUBLE LEAF MASONRY WALLS, OPENINGS SPECIFIED IN (1) MUST BE PROVIDED IN BOTH LEAVES OF THE MASONRY, WITH OPENINGS BEING ALIGNED TO ALLOW AN UNOBSTRUCTED FLOW OF AIR (SEE FIGURE 6.2.1D)

4. OPENINGS IN INTERNAL SUBFLOOR WALLS SPECIFIED IN (1) MUST HAVE AN UNOBSTRUCTED AREA EQUIVALENT TO THAT REQUIRED FOR THE ADJACENT EXTERNAL OPENINGS (SEE FIGURE 6.2.1D).

5. WHERE THE GROUND OR SUBFLOOR SPACE IS EXCESSIVELY DAMP OR SUBJECT TO FREQUENT FLOODING IN ADDITION TO THE REQUIREMENTS OF (1) TO (4)-

- (a) THE SUBFLOOR VENTILATION REQUIRED IN (1) MUST BE INCREASED BY 50%; OR
- (b) THE GROUND WITHIN THE SUBFLOOR SPACE MUST BE SEALED WITH AN IMPERVIOUS MEMBRANE; OR
- (c) SUBFLOOR FRAMING MUST BE
- (i) WHERE ABOVE GROUND ABOVE GROUND DURABILITY CLASS 1 OR 2 TIMBERS OR H3 PRESERVATIVE TREATED TIMBERS IN ACCORDANCE WITH AS 1684.2, AS 1684.3 OR AS 1684.4; OR
  (ii) WHERE IN-GROUND IN-GROUND DURABILITY CLASS 1 OR 2 TIMBERS OR H5 PRESERVATIVE TREATED TIMBERS IN
- ACCORDANCE WITH AS 1684.2, AS 1684.3 OR AS 1684.4; OR
- (iii)STEEL IN ACCORDANCE WITH NASH STANDARD 'RESIDENTIAL AND LOW-RISE STEEL FRAMING' PART 2

#### SUBFLOOR OPENING REQUIREMENTS CLIMATIC ZONE C

- MINIMUM AGGREGATE SUBFLOOR VENTILATION OPENINGS (mm²/m OF WALL)
- WITH NO MEMBRANE
- WITH GROUND SEALED WITH IMPERVIOUS MEMBRANE 3000

MINIMUM GROUND CLEARANCE HEIGHT WHERE TERMITE INSPECTION OR MANAGEMENT SYSTEM IS NOT REQUIRED (mm) - 150

#### ACBC PART 6.3 & 7.2 CORROSION PROTECTION

#### 6.3.9 Structural steel

- STRUCTURAL STEEL MEMBERS THAT ARE NOT BUILT IN TO A MASONRY WALL MUST-
- (a) BE PROTECTED AGAINST CORROSION IN ACCORDANCE WITH BCA 2019 3.4.4.4
- (b) WHERE A PAINT FINISH IS APPLIED TO THE SURFACE, BE FREE FROM RUST; AND
- (c) WHERE ZINC COATINGS ARE APPLIED TO THE SURFACE, BE PROVIDED WITH A BARRIER COAT TO PREVENT
- DOMESTIC ENAMELS FROM PEELING; AND (d) WHEN CUT OR WELDED ON-SITE, HAVE THOSE AREAS AND ANY OTHER AREAS OF DAMAGE TO PROTECTIVE
- COATINGS COMPLY WITH (A).

#### BCA 2019 PART 3.4.4.4 CORROSION PROTECTION

TABLE 3.4.4.7 MODERATE - MORE THAN 1km FOR BREAKING SURF OR MORE THAN 100m FROM SALT WATER NOT SUBJECT TO BREAKING SURF OR NON-HEAVY INSUDTRIAL AREAS.

- EXTERNAL - 2 COATS ALKYD PRIMER
- 2 COATS ALKYS GLOSS
- HOT DIP GALVANISED 300g/m<sup>2</sup> MIN. HOT DIP GALVANISED 100g/m<sup>2</sup> MIN. PLUS
- (a) 1 COAT SOLVENT BASED VINYL PRIMER; OR
- (b) 1 COAT VINYL GLOSS OR ALKYD

SEVERE - WITHIN 1km FROM BREAKING SURF OR WITHIN 100m OF SALT WATER NOT SUBJECT TO BREAKING SURF OR HEAVY INDUSTRIAL AREAS INTERNAL

- 2 COATS ALKYD PRIMER
- 2 COATS ALKYS GLOSS

EXTERNAL

- INORGANIC ZINC PRIMER PLUS 2 COATS VINYL GLOSS FINISHING COATS
- HOT DIP GALVANISED 300g/m<sup>2</sup>

- HOT DIP GALVANISED 100g/m<sup>2</sup> MIN. PLUS

- (a) 2 COAT SOLVENT BASED VINYL PRIMER; OR
- (b) 2 COAT VINYL GLOSS OR ALKYD

#### 7.2.2 Roofing

1. METAL SHEET ROOFING MUST BE PROTECTED FROM CORROSION IN ACCORDANCE WITH TABLE 7.2.2A 2. WHERE DIFFERENT METALS ARE USED, INCLUDING FLASHINGS, FASTENERS, GUTTERING, DOWNPIPES, ETC., THEY MUST BE COMPATIBLE WITH EACH OTHER AS DESCRIBED IN TABLE 7.2.2B, TABLE 7.2.2C, TABLE 7.2.2D, AND TABLE 7.2.2E AND-

(a) NO LEAD MATERIALS CAN BE USED UPSTREAM FROM ALUMINIUM/ZINC COATED MATERIALS; AND (b) NO LEAD MATERIALS CAN BE USED ON ROOFS THAT FORM PART OF A DRINKING WATER CATCHMENT AREA; AND

(c) NO COPPER MATERIALS CAN BE USED UPSTREAM FROM GALVANIZED COATED MATERIALS.

## ROOF AND WALL CLADDING - H1D7

ACBC PART 7 METAL SHEET ROOFING MUST COMPLY WITH THE -

(a) MINIMUM PITCH REQUIREMENTS FOR THE ASSOCIATED ROOF PROFILE IN ACCORDANCE WITH FIGURE 7.2.3 (b) MAXIMUM SPAN BETWEEN ROOFING SUPPORTS IN ACCORDANCE WITH TABLE 7.2.4 AND FIGURE 7.2.4 REFER MANUFACTURERS SPECIFICATIONS OR THE ABOVE STANDARDS FOR ROOF SHEETING REQUIREMENTS



Fasbuilt Manufactured Homes & Cabins P.O Box 274, Deloraine Tasmania 7304 Ph: 03 6393 1013 admin@tasbuilthomes.com.au



Development Application: 5.2024.322.1 -Response to Request for Information - 3 Linden Road, Primrose Sands - P2.pdf Plans Reference: P2 0ate received:13/12/2024

#### 7.2.5 Fixing of metal sheet roofing METAL SHEET ROOFING MUST-

- (a) BE EITHER FIXED THROUGH THE ROOFING (CREST FASTENING) OR HAVE CONCEALED FASTENERS; AND
- (b) BE FIXED AT SPACINGS IN ACCORDANCE WITH TABLE 7.2.5; AND (c) USE FIXINGS OF A COMPATIBLE METAL TO THE ROOF IN ACCORDANCE WITH

- (d) WHEN USING BOTH CLIPPED AND <u>7.2.2E</u>, AND (d) WHEN USING BOTH CLIPPED AND PIERCED FASTENING SYSTEMS, EMPLOY AN ANTI-CAPILLARY FEATURE IN THE SIDE LAP OF THE SHEET (SEE FIGURE 7.2.5).

#### 7.2.6 Installation of roofing sheets

- SHEETS MUST BE-
- 1. LAID WHEREVER POSSIBLE USING COMPLETE LENGTHS FROM THE FASCIA TO RIDGE; OR
- 2. WHERE A COMPLETE LENGTH CANNOT BE LAID-
  - (a) EACH RUN MUST BE LAID FROM BOTTOM TO TOP BEFORE MOVING ON TO THE NEXT RUN (SEE FIGURE 7.2.6); AND (b) THE MINIMUM END LAP MUST BE-
  - (i) FOR ROOF SLOPES ABOVE 15 DEGREES (1:4) 150mm; AND
  - (ii) FOR ROOF SLOPES BETWEEN 5-15 DEGREES (1:12-1:4) 200mm; AND

3. STOP ENDED (I.E. EACH VALLEY TURNED UP 60 DEGREES) AT THE RIDGE LINE OF EACH LENGTH

7.2.7 Flashings and Cappings 1. SHEET METAL ROOF FLASHINGS AND CAPPINGS MUST COMPLY WITH THE FOLLOWING:

- (a) ROOF FLASHINGS AND CAPPINGS MUST BE PURPOSE MADE, MACHINE-FOLDED SHEET METAL SECTIONS OF MATERIAL COMPATIBLE WITH ALL UP AND DOWNSTREAM METAL ROOF COVERING MATERIALS IN ACCORDANCE WITH 7.2.2(2).
- (b) THE TYPE OF FASTENERS FOR FLASHING AND CAPPINGS MUST COMPLY WITH <u>7.2.5.</u> (c) THE FASTENER AND FIXING FREQUENCY FOR FLASHINGS AND CAPPINGS MUST COMPLY WITH <u>TABLE 7.2.7.</u>
- (d) JOINTS IN FLASHINGS AND CAPPINGS MUST BE NOT LESS THAN 75 MM, LAPPED IN THE DIRECTION OF THE FALL OF THE ROOF,
- AND FASTENED AT INTERVALS NOT MORE THAN 40mm.
- (e) WALL AND STEP FLASHINGS MUST BE FASTENED INTO MASONRY WALLS WITH GALVANIZED OR ZINC/ALUMINIUM SHEET METAL WEDGES AT EACH END OF EACH LENGTH AND AT INTERMEDIATE INTERVALS OF NOT MORE THAN 500 MM AND MUST OVERLAP BY NOT LESS THAN 75mm IN THE DIRECTION OF FLOW.
- (f) LEAD FLASHINGS MUST NOT BE USED WITH PREPAINTED STEEL OR ZINC/ALUMINIUM STEEL OR ON ANY ROOF IF THE ROOF IS PART OF A DRINKING WATER CATCHMENT AREA.
- (g) ANTI-CAPILLARY BREAKS MUST BE INSTALLED IN ACCORDANCE WITH FIGURE 7.2.7A AND BE-
- (i) FOR FLAT SURFACES 10mm/30 DEGREE FOLD; AND (ii) ALL OTHER SURFACES 10mm/90 DEGREE OR 135 DEGREE FOLD.

(h) ACCEPTABLE FLASHING CONFIGURATIONS ARE SHOWN IN FIGURE 7.2.7B AND FIGURE 7.2.7C.

- 2. FLASHING OF PENETRATIONS MUST COMPLY WITH THE FOLLOWING:
  - (a) COLLAR FLASHINGS MUST PERMIT THE TOTAL DRAINAGE OF THE AREA ABOVE THE PENETRATION. (b) ON COMPLETION OF INSTALLATION, THE ROOF STRUCTURE MUST BE RESTORED TO ITS ORIGINAL STRENGTH BY INSTALLING
  - ROOF TRIMMERS AND SOAKER SUPPORTS AS NECESSARY.

(i) FOR EAVES GUTTERS - 5% ANNUAL EXCEEDANCE PROBABILITY; AND

(a) NOT SERVE MORE THAN 12m OF GUTTER LENGTH FOR EACH DOWNPIPE; AND

(b) BE LOCATED AS CLOSE AS POSSIBLE TO VALLEY GUTTERS; AND

7.5.5 Eaves and soffit linings WHERE PROVIDED, EXTERNAL FIBRE-CEMENT SHEETS AND LININGS USED AS EAVES AND SOFFIT LININGS MUST—

(b) BE FIXED IN ACCORDANCE WITH TABLE 7.5.5 AND FIGURE 7.5.5 USING-

IF IN DOUBT REFER TO NCC AND STANDARDS

**OR CONTACT ENGINEERING PLUS** 

(ii) NO. 8 WAFER HEAD SCREWS (FOR 4.5mm AND 6mm SHEETS ONLY); (iii) NO. 8 SELF EMBEDDING HEAD SCREWS (FOR 6mm SHEETS ONLY).

THE ABOVE NCC STANDARDS, OR AS3500, AS2179 & AS1273

THE ABOVE NCC STANDARDS. OR AS2908. AS1859. AS2269

(a) COMPLY WITH AS/NZS 2908.2 OR ISO 8336; AND

(i) 2.8 × 30mm FIBRE-CEMENT NAILS; OR

(ii) FOR EAVES GUTTER OVERFLOW MEASURES - 1% ANNUAL EXCEEDANCE PROBABILITY

- (c) THE TYPE OF FASTENERS FOR FLASHINGS AND CAPPINGS MUST COMPLY WITH <u>7.2.5</u>. (d) LEAD FLASHINGS MUST NOT BE USED WITH PREPAINTED STEEL OR ZINC/ALUMINIUM STEEL OR ON ANY ROOF IF THE ROOF IS PART OF A DRINKING WATER CATCHMENT AREA.
- (e) ACCEPTABLE FLASHINGS FOR PENETRATIONS ARE SHOWN IN FIGURE 7.2.7D, FIGURE 7.2.7E AND FIGURE 7.2.7F (f) CLEARANCE FOR HEATING APPLIANCE ROOF SUPPORT MEMBERS MUST BE IN ACCORDANCE WITH PART 12.4

FOLLOWS-

7.2.8 Water discharge WHERE AN EAVES GUTTER IS PROVIDED IN ACCORDANCE WITH <u>H2D6(1)</u>, SHEETS MUST OVERHANG THE FASCIA, OR END BATTEN WHERE THERE IS

(c) BE SELECTED IN ACCORDANCE WITH THE APPROPRIATE EAVES GUTTER SECTION AS SHOWN IN TABLE 7.4.3A, TABLE 7.4.3B

ABCB PART 7.5 TIMBER AND COMPOSITE WALL CLADDING REFER MANUFACTURERS SPECIFICATIONS FOR TIMBER AND COMPOSITE WALL CLADDING DESIGN AND INSTALLATION REQUIREMENTS; OR

MINOR AMENDMENT

DWELLING RELOCATION

DWELLING RELOCATION

DWELLING RELOCATION

DECOR AMENDMENTS

1

0

Е

D

С

В

Rev: Amendment:

REFER MANUFACTURERS SPECIFICATIONS FOR GUTTER AND DOWNPIPE DESIGN AND INSTALLATION REQUIREMENTS; OR

(a) FOR EAVES GUTTERS, BE IN ACCORDANCE WITH <u>TABLE 7.4.3A</u>, <u>TABLE 7.4.3B</u> AND <u>TABLE 7.4.3C</u>; AND (b) BE SUITABLE TO REMOVE RAINWATER FALLING AT THE APPROPRIATE 5 MINUTE DURATION RAINFALL INTENSITY LISTED IN <u>TABLE 7.4.3D</u> AS

### ABCB PART 7.4 GUTTERS AND DOWNPIPES

#### 7.4.3 Selection of guttering THE SIZE OF GUTTERING MUST-

7.4.5 Downpipes - size and installation DOWNPIPES MUST—

AND TABLE 7.4.3C



#### ACBC PART 8.2 - WINDOWS AND EXTERNAL GLAZED DOORS

- WINDOWS MUST BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING (a) STRUCTURAL BUILDING LOADS MUST NOT BE TRANSFERRED TO THE WINDOW ASSEMBLY (b) A MINIMUM 10mm GAP MUST BE PROVIDED BETWEEN THE TOP OF THE WINDOW ASSEMBLY AND ANY LOADBEARING FRAMING OR MASONRY WALL ELEMENT
  - (c) THE REQUIREMENTS OF (B) MAY BE INCREASED WHERE NECESSARY TO ALLOW FOR FRAME SETTLEMENT OVER WIDE OPENINGS (d) PACKING, IF PROVIDED BETWEEN EACH WINDOW ASSEMBLY AND THE FRAME, MUST BE— (i) LOCATED ALONG EACH SIDE AND BOTTOM; AND
    - (ii) FIXED TO ENSURE THE SIDES AND BOTTOM OF THE WINDOW ASSEMBLY REMAIN STRAIGHT; AND (iii) CLEAR OF ANY FLASHING MATERIAL

ACBC PART 8.3 - GLASS GLASS TO BE IN ACCORDANCE WITH A1288

GLAZING - H2D7

WITH AS 1170 1

8.4.3 Door side panels

EXCEPT THAT-

02.09.24 O.J

8.2.2 Installation of windows

- GLASS USED IN BARRIERS, EXCEPT A WINDOW SERVING AS A BARRIER, MUST WITHSTAND LOADING FORCES IN ACCORDANCE
- FOR 3mm MONOLITHIC ANNEALED GLASS, THE MAXIMUM AREA MUST NOT BE MORE THAN 0.85 M<sup>2</sup>.

#### 8.3.3 Fully framed glazing installed in perimeter of buildings

- FULLY FRAMED MONOLITHIC ANNEALED GLASS INSTALLED IN THE PERIMETER OF BUILDINGS MUST COMPLY WITH-
  - (a) IF THE BUILDING IS LOCATED IN AN AREA WITH A WIND CLASS NOT EXCEEDING N1 TABLE 8.3.3A;
  - (b) IF THE BUILDING IS LOCATED IN AN AREA WITH A WIND CLASS NOT EXCEEDING N2 <u>TABLE 8.3.3B</u> (c) IF THE BUILDING IS LOCATED IN AN AREA WITH A WIND CLASS NOT EXCEEDING N3 <u>TABLE 8.3.3C</u>

- ACBC PART 8.4 GLAZING HUMAN IMPACT 8.4.2 Doors, side panels and other framed glazing panels GLASS IN DOORS MUST BE GRADE A SAFETY GLAZING MATERIAL IN ACCORDANCE WITH <u>TABLE 8.4.2</u> AND <u>FIGURE 8.4.2</u>, EXCEPT THAT— (a) UNFRAMED DOORS, OTHER THAN THOSE INCORPORATED IN SHOWER SCREENS OR BATH ENCLOSURES,
  - MUST BE GLAZED WITH TOUGHENED SAFETY GLASS WITH A MINIMUM NOMINAL THICKNESS OF 10mm OR
  - LAMINATED TOUGHENED SAFETY GLASS WITH A MINIMUM TOTAL THICKNESS OF 10mm; AND
  - (b) INDIVIDUAL PIECES OF MONOLITHIC ANNEALED GLASS INCORPORATED IN LEADLIGHTS MAY BE USED,
  - TO A MAXIMUM AREA OF 0.05m<sup>2</sup> WITH A MINIMUM NOMINAL THICKNESS OF 3mm; AND (c) FOR ANNEALED AND ANNEALED DECORATED GLASS PANELS IN DOORS—
  - (i) 3 & 4mm ANNEALED GLASS, THE MAXIMUM AREA MUST NOT BE <0.1m<sup>2</sup> WITH A MAXIMUM PANEL WIDTH OF 125mm; AND (ii) 5 & 6mm ANNEALED GLASS, THE MAXIMUM AREA MUST NOT BE <0.26m<sup>2</sup> WITH A MAXIMUM PANEL WIDTH OF 300mm; (d) FOR ANNEALED GLASS IN FULLY FRAMED PANELS WITH A THICKNESS OF <10mm, WITH OR WITHOUT BEVELLED EDGES, THE MAXIMUM AREA MUST NOT BE M<0.5m<sup>2</sup>; AND
  - (e) DOORS IN BATHROOMS, ENSUITES AND SPA ROOMS MUST BE GLAZED IN ACCORDANCE WITH 8.4.6.
- 1. ALL FRAMED GLASS (EXCEPT LEADLIGHT PANELS) WITH THE NEAREST VERTICAL SIGHT LINE LESS THAN 300mm FROM THE NEAREST EDGE OF THE DOORWAY OPENING MUST BE GRADE A SAFETY GLAZING MATERIAL IN ACCORDANCE WITH TABLE 8.4.2 AND FIGURE 8.4.2.
  - (a) THE LOWEST VISIBLE SIGHT LINE IS <1.2m ABOVE THE HIGHEST ABUTTING FINISHED FLOOR LEVEL, MONOLITHIC ANNEALED GLASS WITH A MIN. THICKNESS OF 5mm AND AN AREA OF NOT <0.3m<sup>2</sup> MAY BE USED;
  - (b) THE LOWEST VISIBLE SIGHT LINE IS <1.2m ABOVE THE HIGHEST ABUTTING FINISHED FLOOR LEVEL, MONOLITHIC ANNEALED GLASS WITH A MIN, THICKNESS OF 10mm WITH AN AREA OF NOT <0.5m<sup>2</sup>, MAY BE USED;
  - (c) WHERE THE SIDE PANEL CONSISTS OF GLASS LOUVRES WITH EXPOSED EDGES OR WHERE THE LOUVRES ARE INSTALLED >500mm ABOVE THE HIGHEST ABUTTING FINISHED FLOOR LEVEL-
    - (i) FOR BLADE WIDTHS NOT <230mm WITH BLADE LENGTHS NOT <1m, GRADE A TOUGHENED SAFETY
    - GLAZING NOT >5mm THICK MUST BE USED; AND
    - (ii) BLADE WIDTHS <230mm, GRADE A TOUGHENED SAFETY GLAZING NOT >10mm THICK MUST BE USED.
- 2. FRAMED GLASS PANELS WITH THE NEAREST VERTICAL SIGHT LINE NOT >300mm FROM THE NEAREST EDGE OF THE DOOR OPENING ARE NOT CONSIDERED TO BE SIDE PANELS FOR THE PURPOSES OF (1).

#### 8.4.4 Full height framed glazed panels

- 1. A GLAZED PANEL LOCATED IN A BUILDING SO THAT IT IS CAPABLE OF BEING MISTAKEN FOR AN UNOBSTRUCTED OPENING MUST BE GLAZED WITH GRADE A SAFETY GLAZING MATERIAL IN ACCORDANCE WITH <u>TABLE 8.4.2</u>.
- 2. GLAZED PANELS ARE NOT CONSIDERED AN UNOBSTRUCTED OPENING WHERE ANY OF THE FOLLOWING APPLY:
  - (a) THE CLEAR OPENING WIDTH IS NOT MORE THAN 500mm
  - (b) THE LOWEST SIGHT LINE OF THE OPENING IS NOT >500mm ABOVE THE HIGHEST ABUTTING FINISHED FLOOR LEVEL.
     (c) GLASS IS MADE APPARENT BY TRANSOMS, COLONIAL BARS, OTHER COMPONENTS OF THE SYSTEM, PERMANENT MOTIFS OR OTHER DECORATION ON OR ETCHED INTO THE GLASS, OF A MAGNITUDE TO BE READILY APPARENT, OR IS OPAQUELY
  - COLOURED OR PATTERNED TO INDICATE ITS PRESENCE.
  - (d) A CHAIR RAIL OR HANDRAIL NOT LESS THAN 40mm THICK, OR THE LIKE, IS PROVIDED AT A HEIGHT OF NOT LESS THAN 700mm ABOVE THE ADJOINING GROUND LEVEL
  - (e) THE DIFFERENCE IN FLOOR LEVEL ON EITHER SIDE OF THE PANEL IS GREATER THAN 1000mm.



#### GLAZING - H2D7

#### 8.4.5 Glazed panels, other than doors or side panels, on the perimeter of rooms

ALL FRAMED GLAZING WHERE THE LOWEST SIGHT LINE OF THE GLAZING PANEL IS LESS THAN 500mm FROM THE HIGHEST ABUTTING FINISHED FLOOR LEVEL (SEE FIGURE 8.4.5) MUST BE-

- (a) GRADE A SAFETY GLAZING MATERIAL IN ACCORDANCE WITH TABLE 8.4.2; OR
- (b) MONOLITHIC ANNEALED GLASS NOT >5mm NOM. THICK PROVIDED THE AREA OF THE GLAZED PANEL IS NOT <1.2m<sup>2</sup>.

8.4.6 Kitchen, bathroom, ensuite, spa room and splash-back glazing 1. ALL GLAZING IN KITCHENS, BATHROOMS, SPA ROOMS OR THE LIKE, INCLUDING SHOWER DOORS, SCREENS, BATH ENCLOSURES, AND ASSOCIATED WINDOWS & DOORS (INCLUDING CABINET DOORS), WHERE THE LOWEST SIGHT LINE IS >2.0m ABOVE THE HIGHEST ABUTTING FINISHED FLOOR LEVEL, BOTTOM OF THE BATH, OR SHOWER BASE, MUST-

- (a) FRAMED PANELS, GLAZED WITH GRADE A SAFETY GLAZING MATERIAL IN ACCORDANCE WITH TABLE 8.4.2;
- (b) FOR PANELS OR DOORS WITH ANY EDGE EXPOSED, BE TOUGHENED SAFETY GLASS IN ACCORDANCE WITH TABLE 8.4.6 WITH A MINIMUM NOMINAL THICKNESS OF 6mm.

#### 2. MONOLITHIC ANNEALED GLASS MAY BE USED FOR-

(a) MIRRORS, PROVIDED A FIXED VANITY OR BENCH WITH A HEIGHT OF NOT LESS THAN 760mm, DEPTH OF NOT LESS THAN 300mm AND EXTENDING THE FULL WIDTH OF THE MIRROR IS, LOCATED IN FRONT OF THE MIRROR;

- (b) SPLASH-BACKS, PROVIDED IT IS FULLY BACKED BY AND CONTINUOUSLY ADHERED TO A SOLID WALL MATERIAL OR A FIXED CABINET OR BENCH THAT IS-
  - (i) A HEIGHT NOT LESS THAN 760mm; AND
  - (ii) A DEPTH NOT LESS THAN 300mm; AND
- (iii) EXTENDING THE FULL WIDTH OF THE SPLASH-BACK; AND
- (iv) LOCATED IN FRONT OF THE SPLASH BACK.

#### 8.4.7 Visibility of glazing

- 1. IF THE PRÉSENCE OF GLAZING IN A DOOR, SIDE PANEL OR PANEL CAPABLE OF BEING MISTAKEN FOR A DOORWAY OR OPENING IS NOT MADE APPARENT IN ACCORDANCE WITH 8.4.4(2)(C), THE GLASS MUST BE MARKED TO MAKE IT READILY VISIBLE TO COMPLY WITH (2). 2. MARKING MUST BE IN THE FORM OF AN OPAQUE BAND NOT LESS THAN 20mm IN HEIGHT LOCATED SO THAT-
- (a) THE UPPER EDGE IS NOT LESS THAN 700mm ABOVE THE FLOOR; AND (b) THE LOWER EDGE IS NOT MORE THAN 1.2m ABOVE THE FLOOR.
- 3. A BAND OR MARKING IS NOT REQUIRED WHERE ANY OF THE FOLLOWING APPLIES. (a) THE HEIGHT OF THE GLAZING IS NOT MORE THAN 1m IN ANY PART.
- (b) THE WIDTH OF THE GLAZING PANEL IS NOT MORE THAN 500mm IN ANY PART. (c) THERE IS NO GLAZING WITHIN 500mm OF THE FLOOR.
- (d) THE GLAZING IS PROVIDED WITH NOT LESS THAN ONE FIXED GLAZING BAR WHICH MUST-(i) BE FIRMLY ATTACHED TO THE STILES TO LOCATE AND PROTECT EACH FACE OF THE GLASS; (ii) BE LOCATED WITH ITS UPPER EDGE NOT LESS THAN 500mm AND ITS BOTTOM EDGE NOT MORE THAN 1m ABOVE THE FLOOR; AND
- (iii) HAVE A FACE WIDTH NOT LESS THAN 40mm

- 8.4.8 Identification of safety glass
   ALL SAFETY MATERIAL IN <u>TABLES 8.4.2</u> AND <u>TABLE 8.4.6</u> INSTALLED TO COMPLY WITH THIS PART MUST COMPLY WITH:
   (a) SAFETY GLASS MUST BE MARKED IN THE FORM OF EITHER PERMANENT ETCHING OR A LABEL THAT CANNOT BE REUSED ONCE REMOVED.
  - (b) THE PERMANENT ETCHING OR LABEL MUST STATE THE FOLLOWING INFORMATION (i) THE STANDARD TO WHICH THE SAFETY GLASS HAS BEEN TESTED. (ii) REGISTERED NAME OF THE MANUFACTURER OR SUPPLIER. (iii) GRADE OF THE SAFETY GLASS. (iv) NOMINAL THICKNESS OF THE SAFETY GLASS. (v) THE TYPE OF SAFETY GLASS.

#### SMOKE ALARMS AND EVACUATION LIGHTING - H3D6

## ACBC PART 9.5 TO COMPLY WITH AS3786

BE POWERED BY MAINS POWER WHERE AVAILABLE - BE INTERCONNECTED WHERE THERE IS MORE THAN ONE ALARM

#### 9.5.2 Location - Class 1a building

- IN A CLASS 1a BUIDING, SMOKE ALARMS MUST BE LOCATED IN
- (a) ANY STOREY CONTAINING BEDROOMS, EVERY CORRIDOR OR HALLWAY ASSOCIATED WITH A BEDROOM, OR IF THERE IS NO CORRIDOR OR HALLWAY, IN AN AREA BETWEEN BEDROOMS AND THE REMAINDER OF THE BUILDING; (b) EACH OTHER STOREY NOT CONTAINING BEDROOMS

- 9.5.3 Location Class 1b buildings IN A CLASS 1b BUIDING. SMOKE ALARMS MUST BE LOCATED IN -
- (a) EVERY BEDROOM: AND
- (b) EVERY CORRIDOR OR HALLWAY ASSOCIATED WITH A BEDROOM, OR IF THERE IS NO CORRIDOR OR HALLWAY IN AN AREA BETWEEN BEDROOMS AND THE REMAINDER OF THE BUILDING; AND (c) EACH OTHER STOREY

- 9.5.4 Installation of smoke alarms
- SMOKE ALARMS REQUIRED BY 9.5.2 AND 9.5.3 MUST BE INSTALLED ON OR NEAR THE CEILING, IN ACCORDANCE WITH: (a) WHERE A SMOKE ALARM IS LOCATED ON THE CEILING IT MUST BE-
- (i) A MINIMUM OF 300mm AWAY FROM THE CORNER JUNCTION OF THE WALL AND CEILING; AND (ii) BETWEEN 500mm AND 1500mm AWAY FROM THE HIGH POINT AND APEXES OF THE CEILING,
- IF THE ROOM HAS A SLOPING CEILING.
- (b) WHERE (A) IS NOT POSSIBLE, THE SMOKE ALARM MAY BE INSTALLED ON THE WALL, AND LOCATED A MINIMUM OF 300mm AND A MAXIMUM OF 500mm OFF THE CEILING AT THE JUNCTION WITH THE WALL

- 9.5.5 Lighting to assist evacuation Class 1b buildings IN A CLASS 1B, A SYSTEM OF LIGHTING MUST BE INSTALLED TO ASSIST EVACUATION OF OCCUPANTS IN THE EVENT OF A FIRE, AND-
- (a) BE ACTIVATED BY THE SMOKE ALARM REQUIRED BY 9.5.3(B); AND
- (b) CONSIST OF-
  - (i) A LIGHT INCORPORATED WITHIN THE SMOKE ALARM; OR (ii) THE LIGHTING LOCATED IN THE CORRIDOR, HALLWAY OR AREA SERVED BY THE SMOKE ALARM.



## tasbuilthomes

Tasbuilt Manufactured Homes & Cabins P.O Box 274, Deloraine Tasmania 7304 Ph: 03 6393 1013 admin@tasbuilthomes.com.au



Development Application: 5.2024.322.1 -Response to Request for Information - 3 Linden Road, Primrose Sands - P2.pdf Plans Reference: P2 Date received:13/12/2024

WET AREAS - H4D2 WET AREAS TO COMPLY WITH AS3740; AND ACBC PART 10.2 BUILDING ELEMENTS IN WET AREAS WITHIN A BUILDING MUST BE PROTECTED WITH A WATERPROOFING SYSTEM. THE WATERPROOFING SYSTEM MUST BE EITHER WATERPROOF OR WATER RESISTANT IN ACCORDANCE WITH 10.2.2 - 10.2.6

### 10.2.7 Materials

WHERE REQUIRED TO BE INSTALLED IN ACCORDANCE WITH 10.2.2 TO 10.2.6, MATERIALS USED IN WET AREAS FORMING A WATERPROOFING SYSTEM MUST BE EITHER WATERPROOF OR WATER RESISTANT IN ACCORDANCE WITH 10.2.8 TO 10.2.10

VENTILATION - H4D7

10.6.2 Ventilation requirements

(b) OPEN TO-

ACBC PART 10.8

10.8.1 External wall construction

10.8.3 Ventilation of roof spaces

(a) IS LOCATED-

(c) IS EITHER-

(a) CONCRETE ROOF; OR

ACBC PART 13 or BCA 2019 PART 3.12

13.2.2 Building fabric thermal insulation

1 MINOR AMENDMENT

E DWELLING RELOCATION

DECOR AMENDMENTS

DWELLING RELOCATION

DWELLING RELOCATION

0

D

С

В

Rev: Amendment:

ISSUED FOR CONSTRUCTION 07.10.24 O.J Drawn:

ACBC PART 13.2 BUILDING FABRIC

ENERGY EFFICIENCY - H6D2

ACBC PART 10.6

CONSTRUCTED IN ACCORDANCE WITH AS1668.2; AND

FOR ANY PURPOSE BY ANY OF THE FOLLOWING MEANS

(INCLUDING AN ENCLOSED VERANDAH) IF-

(SEE FIGURE 10.6.2)

(a) COMPLY WITH AS 4200 1. AND

OF THE ROOM TO BE VENTILATED; AND

CONDENSATION AND WATER VAPOUR MANAGEMENT - H4F7

(a) IN CLIMATE ZONES 4 AND 5, 0.143 µG/N.S; AND

(b) HAS A HEIGHT OF NOT LESS THAN 20 MM; AND

(d) EACH ADJOINING SHEET OF ROLL MEMBRANE BEING-

(i) OVERLAPPED GREATER THAN OR EQUAL TO 150mm; OR

3. WHERE REQUIRED, BULK INSULATION MUST BE INSTALLED SO THAT-

2. THE REQUIREMENTS OF (1) DO NOT APPLY TO A-

(b) IN CLIMATE ZONES 6, 7 AND 8, 1.14 µG/N.S.

(b) BE INSTALLED IN ACCORDANCE WITH AS 4200.2; AND

(i) A SUITABLY SIZED COURT, OR SPACE OPEN TO THE SKY; OR (ii) AN OPEN VERANDAH, CARPORT, OR THE LIKE; OR

OF THE COMBINED FLOOR AREAS OF BOTH ROOMS; AND

(iii) AN ADJOINING ROOM IN ACCORDANCE WITH (B)

#### 10.2.12 Construction of wet area floors - Falls

WHERE A FLOOR WASTE IS INSTALLED-(a) THE MINIMUM CONTINUOUS FALL OF A FLOOR PLANE TO THE WASTE MUST BE 1:80; AND (b) THE MAXIMUM CONTINUOUS FALL OF A FLOOR PLANE TO THE WASTE MUST BE 1:50.

Shower, hob and bath requirements SHOWERS, HOB AND BATHS CONSTRUCTED IN ACCORDANCE WITH 10.2.14 TO 10.2.24

MEMBRANES CONSTRUCTED IN ACCORDANCE WITH 10.2.25 TO 10.2.29

#### 10.2.32 Shower screens

1. FOR A SHOWER WITH A HOB, THE SCREEN MUST BE INSTALLED FLUSH WITH THE SHOWER SIDE OF THE HOB OR OVERHANG INTO THE SHOWER AREA

2. FOR A SHOWER WITH A STEPDOWN, THE SCREEN MUST BE INSTALLED FLUSH WITH THE FINISHED VERTICAL SURFACE OF THE STEPDOWN OF THE SHOWER AREA

3. FOR A SHOWER WITHOUT A HOB OR STEPDOWN, THE SCREEN MUST INCORPORATE OR BE MOUNTED ON AN INVERTED CHANNEL, POSITIONED OVER THE TOP OF THE WATERSTOP, THAT DEFINES THE SHOWER AREA.

4. FOR BATH END WALLS AND DIVIDING WALLS ABUTTING A SHOWER. THE SHOWER SCREEN MUST BE POSITIONED SO THAT THE BOTTOM EDGE WITHIN THE SHOWER AREA IS EITHER FLUSH WITH THE OUTSIDE EDGE OF THE BATH OR OVERHANGING INTO THE SHOWER AREA

#### FACILITIES - H4D5

#### ACBC PART 10.4 10.4.1 Required facilities

- 1. A CLASS 1 BUILDING MUST BE PROVIDED WITH-
- (a) A KITCHEN SINK AND FACILITIES FOR THE PREPARATION AND COOKING OF FOOD; AND
- (b) A BATH OR SHOWER: AND
- (c) CLOTHES WASHING FACILITIES, COMPRISING AT LEAST ONE WASHTUB AND SPACE IN THE SAME ROOM FOR A WASHING MACHINE; AND
- (d) A CLOSET PAN: AND
- e) A WASHBASIN 2. IF ANY FACILITIES ARE DETACHED FROM THE MAIN BUILDING, THEY MUST BE SET ASIDE FOR THE EXCLUSIVE USE OF THE
- OCCUPANTS OF THE BUILDING.

#### 10.4.2 Construction of sanitary compartments

- THE DOOR TO A FULLY ENCLOSED SANITARY COMPARTMENT MUST-
- (a) OPEN OUTWARDS; OR
- (b) SLIDE: OR
- (c) BE READILY REMOVABLE FROM THE OUTSIDE OF THE COMPARTMENT UNLESS THERE IS A CLEAR SPACE OF AT LEAST 1.2m, MEASURED IN ACCORDANCE WITH FIGURE 10.4.2, BETWEEN THE CLOSET PAN WITHIN THE SANITARY COMPARTMENT AND THE DOORWAY.

#### LIGHT - H4D6

- ACBC PART 10.5
- 10.5.1 Natural light
- 1. NATURAL LIGHT MUST BE PROVIDED BY-
  - (a) WINDOWS, EXCLUDING ROOF LIGHTS THAT-
  - (i) HAVE AN AGGREGATE LIGHT TRANSMITTING AREA MEASURED EXCLUSIVE OF FRAMING MEMBERS, GLAZING BARS OR OTHER OBSTRUCTIONS OF NOT LESS THAN 10% OF THE FLOOR AREA OF THE ROOM; (ii) ARE OPEN TO THE SKY OR FACE A COURT OR OTHER SPACE OR AN OPEN VERANDAH, CARPORT OR THE LIKE;
  - (b) ROOF LIGHTS THAT-
  - (i) HAVE AN AGGREGATE LIGHT TRANSMITTING AREA MEASURED EXCLUSIVE OF FRAMING MEMBERS
  - GLAZING BARS OR OTHER OBSTRUCTIONS OF NOT LESS THAN 3% OF THE FLOOR AREA OF THE ROOM; (ii) ARE OPEN TO THE SKY: OR
  - (c) A PROPORTIONAL COMBINATION OF WINDOWS AND ROOF LIGHTS REQUIRED BY (A) AND (B)

2. A WINDOW REQUIRED TO PROVIDE NATURAL LIGHT THAT FACES A BOUNDARY OF AN ADJOINING ALLOTMENT MUST NOT BE LESS THAN A HORIZONTAL DISTANCE OF 900mm FROM THAT BOUNDARY

3. NATURAL LIGHT TO A ROOM MAY COME THROUGH ONE OR MORE GLAZED PANELS OR OPENINGS FROM AN ADJOINING ROOM (INCLUDING AN ENCLOSED VERANDAH) IF-

(iii) A PROPORTIONAL COMBINATION OF WINDOWS AND ROOF LIGHTS REQUIRED BY (i) AND (ii)

IF IN DOUBT REFER TO NCC AND STANDARDS

**OR CONTACT ENGINEERING PLUS** 

4. THE AREAS SPECIFIED IN (3)(a) AND (b) MAY BE REDUCED AS APPROPRIATE IF DIRECT NATURAL LIGHT IS PROVIDED FROM

- (a) THE GLAZED PANELS OR OPENINGS HAVE AN AGGREGATE LIGHT TRANSMITTING AREA OF NOT >10% OF THE FLOOR AREA OF THE ROOM TO WHICH IT PROVIDES LIGHT; AND
- (b) THE ADJOINING ROOM HAS-
- (i) WINDOWS, EXCLUDING ROOF LIGHTS THAT-

OF BOTH ROOMS;

(A) HAVE AN AGGREGATE LIGHT TRANSMITTING AREA OF NOT >10% OF THE COMBINED FLOOR AREA OF BOTH ROOMS; (B) ARE OPEN TO THE SKY OR FACE A COURT OR OTHER SPACE OR AN OPEN VERANDAH

(A) HAVE AN AGGREGATE LIGHT TRANSMITTING AREA OF NOT >3% OF THE COMBINED FLOOR AREA

- CARPORT OR THE LIKE; OR (ii) ROOF LIGHTS THAT-

(B) ARE OPEN TO THE SKY; OR



VENTILATION MUST BE PROVIDED TO A HABITABLE ROOM, SANITARY COMPARTMENT, BATHROOM, SHOWER ROOM, LAUNDRY AND ANY OTHER ROOM OCCUPIED BY A PERSON

(a) OPENINGS, WINDOWS, DOORS OR OTHER DEVICES WHICH CAN BE OPENED-WITH A VENTILATING AREA NOT LESS THAN 5% OF THE FLOOR AREA OF THE ROOM REQUIRED TO BE VENTILATED; AND

(b) NATURAL VENTILATION TO A ROOM MAY COME THROUGH A WINDOW, OPENING, DOOR OR OTHER DEVICE FROM AN ADJOINING ROOM

(i) THE ROOM TO BE VENTILATED OR THE ADJOINING ROOM IS NOT A SANITARY COMPARTMENT; AND (ii) THE WINDOW, OPENING, DOOR OR OTHER DEVICE HAS A VENTILATING AREA OF NOT LESS THAN 5% OF THE FLOOR AREA

(iii) THE ADJOINING ROOM HAS A WINDOW, OPENING, DOOR OR OTHER DEVICE WITH A VENTILATING AREA OF NOT >5%

(iv) THE VENTILATING AREAS SPECIFIED MAY BE REDUCED AS APPROPRIATE IF DIRECT NATURAL VENTILATION IS PROVIDED FROM ANOTHER SOURCE

(c) AN EXHAUST FAN OR OTHER MEANS OF MECHANICAL VENTILATION MAY BE USED TO VENTILATE A SANITARY COMPARTMENT, LAUNDRY, KITCHEN OR BATHROOM OR WHERE MECHANICAL VENTILATION IS PROVIDED IN ACCORDANCE WITH <u>10.6.3(B)</u>, PROVIDED CONTAMINATED AIR EXHAUSTS COMPLY WITH <u>10.8.2</u>.

1. WHERE A PLIABLE BUILDING MEMBRANE IS INSTALLED IN AN EXTERNAL WALL, IT MUST-

(c) BE LOCATED ON THE EXTERIOR SIDE OF THE PRIMARY INSULATION LAYER OF WALL ASSEMBLIES THAT FORM THE EXTERNAL ENVELOPE

2. WHERE A PLIABLE BUILDING MEMBRANE, SARKING-TYPE MATERIAL OR INSULATION LAYER IS INSTALLED ON THE EXTERIOR SIDE OF THE PRIMARY INSULATION LAYER OF AN EXTERNAL WALL IT MUST HAVE A VAPOUR PERMEANCE OF NOT LESS THAN—

3. EXCEPT FOR SINGLE SKIN MASONRY OR SINGLE SKIN CONCRETE, WHERE A PLIABLE BUILDING MEMBRANE IS NOT INSTALLED IN AN EXTERNAL WALL, THE PRIMARY WATER CONTROL LAYER MUST BE SEPARATED FROM WATER SENSITIVE MATERIALS BY A DRAINED CAVITY.

1. IN CLIMATE ZONES 6, 7 AND 8, A ROOF MUST HAVE A ROOF SPACE THAT-

(i) IMMEDIATELY ABOVE THE PRIMARY INSULATION LAYER; OR (ii) IMMEDIATELY ABOVE SARKING WITH A VAPOUR PERMEANCE OF NOT >1.14 MG/N.S, WHICH IS IMMEDIATELY ABOVE THE PRIMARY INSULATION LAYER; OR (iii) IMMEDIATELY ABOVE CEILING INSULATION THAT MEETS THE REQUIREMENTS OF 13.2.3(3) AND 13.2.3(4);

(ii) VENTILATED TO OUTDOOR AIR THROUGH EVENLY DISTRIBUTED OPENINGS IN ACCORDANCE WITH <u>TABLE 10.8.3</u>; OR (ii) LOCATED IMMEDIATELY UNDERNEATH THE ROOF TILES OF AN UNSARKED TILED ROOF.

(b) ROOF THAT IS MADE OF STRUCTURAL INSULATED PANELS; OR (c) ROOF THAT IS SUBJECT TO BUSHFIRE ATTACK LEVEL FZ REQUIREMENTS IN ACCORDANCE WITH AS 3959

GENERALLY THIS PART APPLIES TO CLASS 1 AND CLASS 10a BUILDINGS WITH A CONDITIONED SPACE

1. WHERE REQUIRED, INSULATION MUST COMPLY WITH AS/NZS 4859.1 AND BE INSTALLED SO THAT IT-(a) ABUTS OR OVERLAPS ADJOINING INSULATION OTHER THAN AT SUPPORTING MEMBERS SUCH AS COLUMNS, STUDS, NOGGINGS, JOISTS, FURRING CHANNELS AND THE LIKE WHERE THE INSULATION MUST BUTT AGAINST THE MEMBER; (b) FORMS A CONTINUOUS BARRIER WITH CEILINGS, WALLS, FLOORS OR THE LIKE THAT INHERENTLY CONTRIBUTE TO THE THERMAL BARRIER;

(c) DOES NOT AFFECT THE SAFE OR EFFECTIVE OPERATION OF A DOMESTIC SERVICE OR FITTING.

2. WHERE REQUIRED, REFLECTIVE INSULATION MUST BE INSTALLED WITH-

(a) THE NECESSARY AIRSPACE, TO ACHIEVE THE REQUIRED R-VALUE BETWEEN REFLECTIVE SIDE OF THE INSULATION AND A BUILDING LINING OR CLADDING;
 (b) THE REFLECTIVE INSULATION CLOSELY FITTED AGAINST ANY PENETRATION, DOOR OR WINDOW OPENING; AND

		,
(	(c) THE REFLECTIVE INSULATION ADEQUATELY SUPPORTED BY	FRAMING MEMBERS; AND
	(J) FACULAD IONING CUEFT OF DOLL MEMODANE DEING	

							1
(ii) TAPED TOGETHER.	LATION MUST B	E INSTA	LLED SO THAT—	ISSUED FOR CONSTRUCTION			
<ul><li>(a) MAIN TAINS ITS POSITION ROOF BATTENS, WATER</li><li>(b) IN A CEILING, WHERE TH</li></ul>	PIPES, ELECTRI ERE IS NO BULI	SS, OTHE CAL CAE ( INSULA	:R THAN WHERE IT CROSSES BLING OR THE LIKE; TION OR REFLECTIVE INSULATION	Copyright ©			
IN THE EXTERNAL WALL GREATER THAN OR EQU	BENEATH, IT OV AL TO 50mm.	'ERLAPS	THE EXTERNAL WALL BY	Client: D. (	CUNDY & W	/. GLYNN	
	25 11 24	\A/ T	Data Drawn 20 05 24	Project: PRC	POSED DV	VELLING	
NDMENT	25.11.24	VV.I	Date Drawn: 30.05.24	Address: 3 1 1		D	
CONSTRUCTION	07.10.24	0.J	Drawn: O. Jones				
ELOCATION	02.09.24	O.J	Checked: O. Jones	Mob 0417 362 783 or 0417 545 813			
ELOCATION	26.07.24	O.J	Scale: As Shown @ A3	jack@engineeringplus trin@engineeringplus.	.com.au PLI	JIN ELEAN AND S	
NDMENTS	03.07.24	O.J	Accredited Building Des	signer	Drawing No:		Rev
ELOCATION	28.06.24	O.J	Designer Name: J.Pfei	ffer	1012024	A21 / A22	1
t:	Date:	Int:	Accreditation No: CC22	11T	1012021		-

#### 13.2.3 Roofs and ceilings 2. REFLECTIVE INSULATION MUST-

(a) HAVE A SURFACE EMITTANCE OF NOT MORE THAN 0.05: AND (b) BE ADJACENT TO A ROOF SPACE OF NOT LESS THAN 20mm; AND

c) IN CLIMATE ZONES 3 TO 8, BE DOWNWARD FACING.

THE THERMAL BRIDGING IN A METAL-FRAMED ROOF MUST BE ADDRESSED AS FOLLOWS— (a) FOR A PITCHED ROOF WITH A HORIZONTAL CEILING—

- (i) ACHIEVES THE TOTAL R-VALUE IN TABLE 13.2.3S, CALCULATED USING A METHOD ACCOUNTING FOR THE EFFECTS OF THERMAL BRIDGING; (ii) INCREASING THE R-VALUE OF THE INSULATION BETWEEN THE CEILING FRAMES BY R0.5 MORE THAN THE REQUIRED R-VALUE; OR (iii) ADDING A CONTINUOUS CEILING INSULATION LAYER WITH A MINIMUM R-VALUE OF R0.13 ABOVE OR BELOW THE CEILING JOISTS OR THE
- BOTTOM CHORDS OF THE TRUSSES: OR (iv) ACHIEVES THE REQUIRED CEILING R-VALUE BY STACKING 2 LAYERS OF INSULATION IMMEDIATELY ON TOP OF EACH OTHER. SO THE TOP LAYER IS
- ORIENTATED TO COVER THE CEILING JOISTS OR BOTTOM CHORDS OF THE TRUSSES AND HAS AN R-VALUE OF AT LEAST R0.5; (b) FOR A FLAT, SKILLION OR CATHEDRAL ROOF-
- (i) ACHIEVES THE TOTAL R-VALUE IN TABLE 13.2.3T, CALCULATED USING A METHOD ACCOUNTING FOR THE EFFECTS OF THERMAL BRIDGING (ii) COMPLYING WITH TABLE 13.2.3U.

4. WHERE 10.8.3(1) OF THE ABCB HOUSING PROVISIONS APPLIES, CONTINUOUS INSULATION PLACED ABOVE THE PRIMARY INSULATION LAYER TO MITIGATE THERMAL BRIDGING MUST HAVE A VAPOUR PERMEANCE OF NOT LESS THAN THAT OF THE PRIMARY INSULATION LAYER.

5. WHERE, FOR OPERATIONAL OR SAFETY REASONS, THE AREA OF CEILING INSULATION REQUIRED IS REDUCED, THE LOSS OF INSULATION MUST BE COMPENSATED FOR IN ACCORDANCE WITH TABLE 13.2.3W.

#### 6. WHERE THE CEILING INSULATION REQUIRED BY (1) TO (5) HAS AN R-VALUE-

- (a) <R3.0 AND LESS THAN OR EQUAL TO R4.5, IT MAY BE REDUCED TO R3.0 WITHIN 450mm OF AN EXTERNAL WALL; OR
- (b) <R4.5, IT MAY BE REDUCED TO R3.0 WITHIN 450mm OF AN EXTERNAL WALL, PROVIDED ALL OTHER CEILING INSULATION IS INCREASED BY R0.5. 7. A ROOF THAT-
- (a) HAS METAL SHEET ROOFING DIRECTLY FIXED TO METAL PURLINS. METAL RAFTERS OR METAL BATTENS: AND
- (b) DOES NOT HAVE A CEILING LINING OR HAS A CEILING LINING FIXED DIRECTLY TO THOSE METAL PURLINS, METAL RAFTERS OR METAL BATTENS, MUST HAVE A THERMAL BREAK, CONSISTING OF A MATERIAL WITH AN R-VALUE OF GREATER THAN OR EQUAL TO 0.2, INSTALLED BETWEEN THE METAL SHEET ROOFING AND ITS SUPPORTING METAL PURLINS, METAL RAFTERS OR METAL BATTENS.

8. THE REQUIREMENTS OF (1) TO (7) DO NOT APPLY TO ROOFS CONSTRUCTED USING INSULATED SANDWICH PANELS

9. ROOFS CONSTRUCTED USING INSULATED SANDWICH PANELS MUST ACHIEVE THE MINIMUM TOTAL R-VALUE IN TABLE 13.2.3X

#### 13.2.4 Roof lights

ROOF LIGHTS (INCLUDING ANY ASSOCIATED SHAFT AND DIFFUSER) SERVING A HABITABLE ROOM OR AN INTERCONNECTING SPACE SUCH AS A CORRIDOR. HALLWAY STAIRWAY OR THE LIKE MUST HAVE-

- (a) A TOTAL AREA OF NOT MORE THAN 5% OF THE FLOOR AREA OF THE ROOM OR SPACE SERVED; AND
- (b) TRANSPARENT AND TRANSLUCENT ELEMENTS, INCLUDING ANY IMPERFORATE CEILING DIFFUSER, WITH A COMBINED PERFORMANCE OF-(i) FOR TOTAL SYSTEM SHGC, IN ACCORDANCE WITH TABLE 13.2.4; AND
- (ii) FOR TOTAL SYSTEM U-VALUE, NOT MORE THAN U3.9.

#### 13.2.5 External walls

 THE THERMAL BRIDGING IN A METAL-FRAMED WALL MUST BE ADDRESSED BY—

 (a) ACHIEVING THE TOTAL R-VALUE IN <u>TABLES 13.2.5P</u>, 13.2.5Q AND <u>13.2.5R</u>, CALCULATED IN ACCORDANCE WITH AS/NZS 4859.2; OR

 (b) COMPLYING WITH ONE OF THE OPTIONS IN TABLES 13.2.5S, 13.2.5T AND 13.2.5U.

5. A METAL-FRAMED WALL THAT FORMS PART OF THE BUILDING ENVELOPE MUST HAVE A THERMAL BREAK, CONSISTING OF A MATERIAL WITH AN R-VALUE OF NOT >R0.2, INSTALLED AT ALL POINTS OF CONTACT BETWEEN THE EXTERNAL CLADDING AND THE METAL FRAME IF THE WALL-

(a) DOES NOT HAVE A WALL LINING OR HAS A WALL LINING THAT IS FIXED DIRECTLY TO THE METAL FRAME: AND (b) IS CLAD WITH WEATHERBOARDS, FIBRE-CEMENT OR THE LIKE, OR METAL SHEETING FIXED TO THE METAL FRAME

6. THE REQUIREMENTS OF (5) DO NOT APPLY TO WALLS CONSTRUCTED USING INSULATED SANDWICH PANELS.

#### 13.2.6 Floors and subfloor walls

1. FLOOR INSULATION. WHERE THE FLOOR IS OVER AN UNENCLOSED SPACE. MUST ACHIEVE THE MINIMUM R-VALUE IN ACCORDANCE WITH TABLE 13.2.6A

3. THE THERMAL BRIDGING IN A METAL-FRAMED FLOOR MUST BE ADDRESSED BY-

(a) ACHIEVING THE TOTAL R-VALUE IN TABLE 13.2.6I, CALCULATED BY-

- (i) USING A METHOD THAT ACCOUNTS FOR THE EFFECT OF THERMAL BRIDGING IN A SUSPENDED FLOOR ABOVE AN ENCLOSED SUBFLOOR SPACE; OR
- (ii) USING AS/NZS 4859.2 FOR ALL OTHER FLOORS; OR (b) COMPLYING WITH ONE OF THE OPTIONS IN TABLE 13.2.6J

4. A CONCRETE SLAB-ON-GROUND WITH AN IN-SLAB OR IN-SCREED HEATING OR COOLING SYSTEM, MUST HAVE INSULATION WITH AN R-VALUE GREATER THAN OR EQUAL TO 1.0, INSTALLED AROUND THE VERTICAL EDGE OF ITS PERIMETER

### 5. EXCEPT FOR A WAFFLE-POD SLAB-

(a) IN CLIMATE ZONES 6 AND 7-(i) INSULATION WITH R-VALUE GREATER THAN OR EQUAL TO 0.64 MUST BE INSTALLED AROUND THE VERTICAL EDGE OF ITS PERIMETER; AND (ii) INSULATION WITH AN R-VALUE GREATER THAN OR EQUAL TO 0.64 MUST BE INSTALLED UNDERNEATH THE SLAB; AND

(b) IN CLIMATE ZONE 8-

- (i) INSULATION WITH AN R-VALUE GREATER THAN OR EQUAL TO 1.0 MUST BE INSTALLED AROUND THE VERTICAL EDGE OF ITS PERIMETER: AND (ii) INSULATION WITH AN R-VALUE GREATER THAN OR EQUAL TO 2.0 MUST BE INSTALLED UNDERNEATH THE SLAB.
- 6. INSULATION REQUIRED BY (4), (5)(A)(I) AND (5)(B)(I) MUST-
- (a) BE WATER RESISTANT; AND
  - (b) BE CONTINUOUS FROM THE ADJACENT FINISHED GROUND LEVEL-(i) TO A DEPTH OF GREATER THAN OR EQUAL TO 300mm; OR

(ii) FOR AT LEAST THE FULL DEPTH OF THE VERTICAL EDGE OF THE CONCRETE SLAB-ON-GROUND (SEE FIGURE 13.2.6). 7. THE REQUIREMENTS OF (4) DO NOT APPLY TO AN IN-SCREED HEATING OR COOLING SYSTEM USED SOLELY IN A BATHROOM, AMENITY AREA OR THE LIKE.

**13.2.7 Attached Class 10a buildings** A CLASS 10A BUILDING ATTACHED TO A CLASS 1 BUILDING MUST—

(a) HAVE AN EXTERNAL FABRIC THAT ACHIEVES THE REQUIRED LEVEL OF THERMAL PERFORMANCE FOR A CLASS 1 BUILDING; OR (b) BE SEPARATED FROM THE CLASS 1 BUILDING WITH CONSTRUCTION HAVING THE REQUIRED LEVEL OF THERMAL PERFORMANCE FOR THE CLASS 1 BUILDING.



ur Complete Building Solution

Tasbuilt Manufactured Homes & Cabins P.O Box 274, Deloraine Tasmania 7304 Ph: 03 6393 1013 admin@tasbuilthomes.com.au



evelopment Application: 5.2024.322.1 esponse to Request for Information - 3 inden Road, Primrose Sands - P2.pdf lans Reference: P2 ate received:13/12/2024

RECOMMENDED INSULATION R-VALUES - CLIMATE ZONE 7 & 8

ROOF	- ZONE 7 - 4.0	- ZONE 8 - 4.0
EXTERNAL WALLS	- ZONE 7 - 2.5	- ZONE 8 - 2.7
FLOORS	- ZONE 7 - 3.0	- ZONE 8 - 3.0
FLOORS (with reflective insulation)	- ZONE 7 - 2.0	- ZONE 8 - 2.0

IF A REDUCTION IN INSULATION IS DESIRED CONSULT ABCB PART 13.2 FOR ABSOLUTE MINIMUMS

BCA 2019 PART 3.12.2 EXTERNAL GLAZING GENERALLY THIS PART APPLIES TO CLASS 1 AND CLASS 10a BUILDINGS WITH A CONDITIONED SPACE

#### 13.12.2.1 External glazing

- 1. THE AGGREGATE CONDUCTANCE OF THE GLAZING IN EACH STOREY, INCLUDING ANY MEZZANINE, OF A BUILDING MUST-(a) NOT EXCEED THE ALLOWANCES RESULTING FROM-(ii) IN CLIMATE ZONES 2 TO 8, USING THE CONSTANT CU OBTAINED FROM TABLES 3.12.2.1B TO 3.12.2.1H, AS APPROPRIATE;
- 2. THE AGGREGATE SOLAR HEAT GAIN OF THE GLAZING IN EACH STOREY, INCLUDING ANY MEZZANINE, OF A BUILDING MUST-(a) NOT EXCEED THE ALLOWANCES RESULTING FROM MULTIPLYING THE AREA OF THE STOREY, INCLUDING ANY MEZZANINE, MEASURED WITHIN THE ENCLOSING WALLS, BY THE CONSTANT C<sub>SHGC</sub> OBTAINED FROM TABLES 3.12.2.1A TO 3.12.2.1H, AS APPROPRIATE:

- 3. FOR THE PURPOSES OF <u>TABLES 3.12.2.1A</u> TO <u>3.12.2.1H</u>, THE FOLLOWING APPLIES: (a) A STOREY HAS STANDARD AIR MOVEMENT IF ALL HABITABLE ROOMS COMPLY WITH <u>PART 3.12.4</u> (b) A STOREY HAS HIGH AIR MOVEMENT IF THE TOTAL VENTILATION OPENING AREA SERVING THE HABITABLE ROOM IS-(ii) GREATER THAN OR EQUAL TO TWICE THAT FOR STANDARD AIR MOVEMENT WITHOUT A CEILING FAN OR EVAPORATIVE COOLER.
  - (c) WHERE THE VENTILATION OPENING AREA SERVING THE HABITABLE ROOMS IS BETWEEN STANDARD AND HIGH, INTERPOLATION MAY BE USED TO DETERMINE THE APPLICABLE CSHG
  - (d) WHERE THE FLOOR CONSTRUCTION OF A STOREY, INCLUDING A MEZZANINE, IS PARTLY IN DIRECT CONTACT WITH THE GROUND AND PARTLY SUSPENDED, THE CONSTANTS FOR CONDUCTANCE AND SOLAR HEAT GAIN ARE TO BE-(i) INTERPOLATED BETWEEN THE CONSTANTS FOR THE TWO CONSTRUCTIONS IN PROPORTION TO THEIR RESPECTIVE AREAS: OR (ii) THOSE FOR A SUSPENDED FLOOR.

### REFER TO NCC AND STANDARDS FOR DETAILED GLAZING CALCULATIONS

#### 13.12.2.2 Shading

WHERE SHADING IS REQUIRED TO COMPLY WITH 3.12.2.1, IT MUST-1. BE PROVIDED BY AN EXTERNAL PERMANENT PROJECTION, SUCH AS A VERANDAH, BALCONY, FIXED CANOPY, EAVES, SHADING HOOD OR CARPORT, WHICH-(a) EXTENDS HORIZONTALLY ON BOTH SIDES OF THE GLAZING FOR A DISTANCE GREATER THAN OR EQUAL TO THE PROJECTION DISTANCE P IN FIGURE 3.12.2.2; OR (b) PROVIDE THE EQUIVALENT SHADING TO (a) WITH A REVEAL OR THE LIKE; OR 2. BE PROVIDED BY AN EXTERNAL SHADING DEVICE, SUCH AS A SHUTTER, BLIND, VERTICAL OR HORIZONTAL BUILDING SCREEN WITH BLADES, BATTENS OR SLATS, WHICH-(a) IS CAPABLE OF RESTRICTING AT LEAST 80% OF THE SUMMER SOLAR RADIATION: AND

(b) IF ADJUSTABLE, IS READILY OPERATED EITHER MANUALLY, MECHANICALLY OR ELECTRONICALLY BY THE BUILDING OCCUPANTS.

#### BCA 2019 PART 3.12.3 BUILDING SEALING

GENERALLY THIS PART APPLIES TO SEALING REQUIREMENT FOR CLASS 1 AND CLASS 10a BUILDINGS WITH A CONDITIONED SPACE AND A HABITABLE ROOM IN CLIMATE ZONES 4, 5, 6, 7 AND 8,

13.12.3.1 Chimneys and flues

THE CHIMNEY OR FLUE OF AN OPEN SOLID-FUEL BURING APPLIANCE MUST BE PROVIDED WITH A DAMPER OR FLAP THAT CAN BE CLOSED TO SEAL THE CHIMNEY OR FLUE

#### 13.12.3.2 Roof lights

IF IN DOUBT REFER TO NCC AND STANDARDS

**OR CONTACT ENGINEERING PLUS** 

2. A ROOF LIGHT REQUIRED TO BE SEALED, OR CAPABLE OF BEING SEALED, MUST BE CONSTRUCTED WITH-(a) AN IMPERFORATE CEILING DIFFUSER OR THE LIKE INSTALLED AT THE CEILING OR INTERNAL LINING LEVEL; OR (b) A WEATHERPROOF SEAL: OR

(c) A SHUTTER SYSTEM READILY OPERATED EITHER MANUALLY, MECHANICALLY OR ELECTRONICALLY BY THE OCCUPANT

### 13.12.3.3 External windows and doors

2. SEALED TO RESTRICT AIR INFILTRATION-(a) FOR THE BOTTOM EDGE OF A DOOR, MUST BE A DRAFT PROTECTION DEVICE; AND (b) FOR THE OTHER EDGES OF A DOOR OR THE EDGES OF AN OPENABLE WINDOW OR OTHER SUCH OPENING, MAY BE A FOAM OR RUBBER COMPRESSIBLE STRIP, FIBROUS SEAL OR THE LIKE.

3. A WINDOW COMPLYING WITH THE MAXIMUM AIR INFILTRATION RATES SPECIFIED IN AS 2047 NEED NOT COMPLY WITH 2(ii)

### 13.12.3.5 Construction of ceilings, walls and floors

CONSTRUCTION MUST BE—	
(a) ENCLOSED BY INTERNAL LINING SYSTEMS THAT ARE CLOSE FITTING AT CEILING, WALL AND FLOOR JUNCTIO	NS; OR
(b) SEALED AT JUNCTIONS AND PENETRATIONS WITH—	

(i) CLOSE-FITTING ARCHITRAVE, SKIRTING OR CORNICE: OF (ii) EXPANDING FOAM, RUBBER COMPRESSIVE STRIP, CAULKING OR THE LIKE



- OVERFLOW RELIEF GULLY INSTALLATION TO BE A MINIMUM OF 150mm BELOW THE LOWEST FIXTURE AND 75mm ABOVE THE SURROUNDING FINISHED GROUND LEVEL - CONCRETE SURROUND COLLARS TO BE FITTED TO OVERFLOW RELIEF GULLIES AT FINISHED GROUND LEVEL - CONCRETE SURROUND COLLARS AND COVERS TO BE FITTED TO SEWER & DTORMWATER RISING SHAFT INSPECTION OPENINGS AT FINISHED GROUND LEVEL STORMWATER PLUMBING - STORMWATER IS TO BE COLLECTED FROM ALL ROOFED AREAS AND CONNECTED TO LEGAL POINT OF DISCHARGE WHICH INCLUDES: (a) COUNCIL STORMWATER MAIN WITH CONNECTION POINT (b) CONCRETE ROADSIDE KERB & CHANNEL (c) ONSITE DETENTION AND TRANSPORATION THROUGH FRENCH DRAINS ALL PAVED OR HARDSTAND AREAS TO BE DRAINED TOWARDS SURFACE PITS AND CONNECTED TO STORMWATER DISCHARGE SYSTEM - CONCRETE SURROUND COLLARS AND COVERS TO BE FITTED TO STORMWATER RISING SHAFT INSPECTION OPENINGS AT FINISHED GROUND LEVEL HOT AND COLD WATER PIPE AS/NZS 3500.5 & 3500.1 MATERIAL - COPPER, 311REHAU OR EQUIVALENT

OUTLET PIPES FROM THE HOT WATER CYLINDER TO BE COPPER FOR A DISTANCE OF AT LEAST 1.0m BEFORE CONNECTION OR USE OR 311 REHAU OR EQUIVALENT POLY WATER PIPING

HOT WATER DELIVERY TO ALL SANITARY FIXTURES USED FOR PERSONAL HYGIENE AT A MAXIMUM OF 50° AND TO KITCHEN SINK & LAUNDRY AT 60°

VACUUM BREAKER BACK FLOW DEVICES TO BE FITTED TO ALL OUTSIDE TAPS



#### GENERALLY PLUMBING NOTES:

ALL WORK MUST BE CARRIED OUT BY A LICENSED PLUMBER ALL PLUMBING TO BE INSTALLED IN ACCORDANCE WITH THE TASMANIAN PLUMBING REGULATIONS, TASMANIAN PLUMBING CODE AND AS3500

PTIUS BUILDING DESIGN PROJECT MANAGEMENT

PRIOR TO COMMENCEMENT OF WORK:

1. OWNER, PUMBING OR BUILDER TO APPLY TO TASWATER FOR CONNECTIONS

(a) SEWER CONNECTION - ESTABLISH LOCATION OF EXISTING CONNECTION OR INSTALLATION OF NEW CONNECTION

(b) WATER CONNECTION, AND/OR INSTALLATION OF A WATER METER

2. THE PLUMBER/BUILDER MUST TAKE LEVELS TO ENSURE DRAINAGE LINES CAN BE CONNECTED TO LEGAL POINTS OF DISCHARGE (CONNECTION POINTS). DRAINAGE LINES TO BE INSTALLED AT GRADE WITH COVER

LEGEND OF PIPE DIAMETERS -UPVC

TROUGH = 50mm	SINK = 50mm
FLOOR WASTE = 40mm	BASIN = 40mm
SHOWER = 50mm	WC = 100mm
SEWER = 100mm	VENT = 50mm
DOWNPIPE = 90mm	BATH = 40mm
STORMWATER = 100mm	

SEWER LINE - DN 100 LAYED AT MINIMUM GRADE OF 1:60 STORM WATER - DN 90 LAYED AT MINIMUM GRADE OF 1:100

COLD WATER SUPPLY LINE FROM WATER METER TO HOUSE - DN25mm

COLD WATER BRANCHES - DN16mm

HOT WATER MAIN LINE - DN20mm

HOT WATER BRANCHES - DN16mm

HOT WATER SYSTEM PIPING TO BE THERMALLY INSULATED TO ACHIEVE MINIMUM R-VALUES FOR ENERGY EFFICIENT PERFORMANCE. REFER TO DRAWING A-12 FOR INFORMATION & SECTION 8 AS/NZS 3500.4

## ISSUED FOR CONSTRUCTION

Copyright 📀