

BUILDING CODE OF AUSTRALIA (BCA) ASSESSMENT FOR

Change of BCA use/classification of Shed dwelling to Tourist accommodation

At 310 Pinebrush Road, Glen Martin, NSW 2321 (Lot: 31, DP: 733190)

Prepared by Perception Planning Pty Ltd on behalf of Danny Woodland



10 December 2021

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EXECUTIVE SUMMARY

Generally, structures such as a shed can be converted to a habitable structure. The amount of work to convert such a structure should be thoroughly considered before starting. Common upgrades which are required consist of making the structure more rigid and less prone to movement and live load movement (requiring upgrades to the frame structure), and waterproofing of the external fabric and upgrades to control water within the building fabric such as condensation management and wet area waterproofing. The associated structural engineer's report from DRB consulting engineers details a number of structural elements of the structure which require attention to be compliant with the relevant Australian standards for dwelling construction. These are mostly related to the framing of the structure, with a footing on the eastern side of the building also requiring enlargement or replacement for compliance.

Appropriate facilities are installed, and appropriate lighting and ventilation requirements are catered for.

The following items should be noted, however do not constitute a full and comprehensive BCA assessment of the building:

- i. Rectification of the noted structural items in the recommendations section of the associated DRB engineering report.
- ii. Confirmation that window installations meet the requirements of AS 2047 for use in a habitable structure (see AS2047 and Part 3.6 Glazing).
- iii. Confirmation of smoke alarm installation and compliance regarding to hard wiring and emergency lighting (See part 3.7.5 Smoke Alarms and Evacuation Lighting)
- iv. Upgrading of the guttering downpipes and general site drainage may be required depending on BASIX requirements

TERMS & ABBREVIATIONS

BCA	Building Code of Australia
BTA	Bushfire threat assessment
Fire Source Feature	the far side of a boundary of a road ; the rear or side boundary of an allotment or the external wall of another building on the same allotment.
FRL	Fire Resistance Level
Habitable Room	Means a room used for normal domestic activities and includes; bedrooms, living room, lounge room, sewing room, study, playroom, family room, home theatre and sunroom; <i>but</i> <i>excludes</i> a bathroom, laundry, W.C pantry walk in wardrobe, corridor, hallway lobby or the like.
NCC	National Construction Code
WAF	Wet area flashing- installed flashing to protect structural components from corrosion or rot from moisture ingress

LIST OF FIGURES AND TABLES

FIGURE 1	Locality Map	<u></u> 9
TABLE 1	NCC/BCA Compliance Table	10-21
Images	Site images	Attachment 1

TABLE OF CONTENTS

EXEC	UTIVE SUMMARY	3
TERM	S & ABBREVIATIONS	4
1.0		7
1.1	SITE DETAILS AND ANALYSIS	8
1.2	PROPERTY ZONING	8
1.3	DESCRIPTION OF BUILDING	8
2.0	BCA ASSESSMENT	10-21

1.0 INTRODUCTION

This report is an assessment of the plans and an inspection for use of the existing shed dwelling development as tourist accommodation to determine if existing construction shown generally complies with the (NCC/BCA) Building Code of Australia 2019. Plans for the use were assessed against the Deemed-to-Satisfy (DTS) Provisions of the BCA. The sections of the BCA addressed are generally limited to the items required to be addressed by this class of building and is based off a non-intrusive, visual inspection of the property.

The assessment predominately relates to the BCA/NCC 2019 and NSW Environmental Planning and Assessment legislation current at the time. The assessment relates specifically to the building the subject of this report and therefore should not be construed to apply to any other building.

The assessment is based on a review of the plans mentioned below and a visual inspection only and no intrusive or destructive inspections have taken place to determine existing construction parameters.

Prepared by: Ecodimensions

Project number: 2122121

Drawing numbers: 1 through 6

Dated: Sept'21

Andrew Ashton Senior Building Consultant

1.1 SITE DETAILS AND ANALYSIS

The site is located at 310 Pinebrush Road, Glen Martin, NSW 2321 and is legally identified as Lot: 31/DP: 733190 (the site) (FIGURE 1). The site has a total area of 3.679ha and is accessible from Pinebrush Road. The site is zoned RU1: Primary Production.

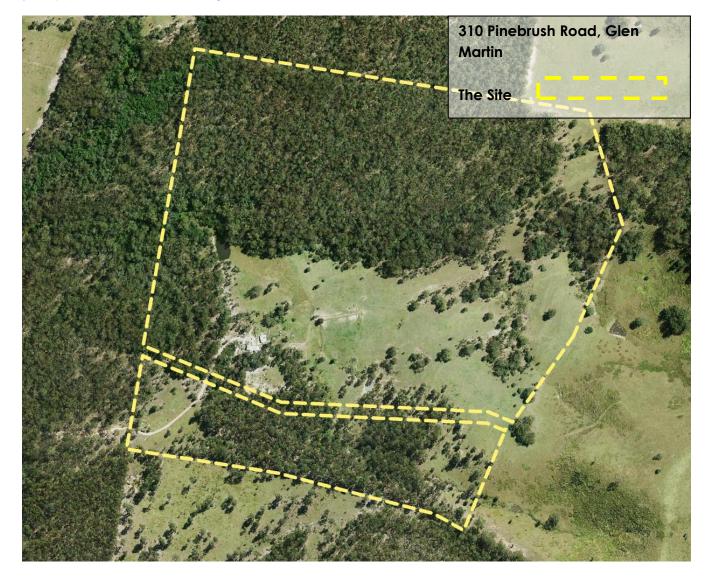
1.2 PROPERTY ZONING

The site of the proposed development is zoned RU1: Primary Production.

1.3 DESCRIPTION OF BUILDING

Location:	310 Pinebrush Rd, Glen Martin NSW
Current use of Building:	Shed
Proposed Use	Dwelling
NCC/ BCA Use Classification:	1a [A6.1]
Site soil classification:	M (assumed- clay present on site)
Wind classification:	N2 (Assessed against AS4055)

FIGURE 1 – Locality Map (Source: NSW Planning Portal)



2.0 NCC/BCA ASSESSMENT

The following table provides an assessment of the building against the relevant parts of the (NCC/BCA) Building Code of Australia 2019;

DCA	Departmetics	Accessment Comments			
BCA Clause	Description	Assessment Comments			
	Section 1- Governing Requirements				
Part A6 Bui	Iding classification	1	1		
A6.1	Building Classification	Proposed classification is a class 1a (Dwelling)	Note		
		Section 3- Acceptable Construction			
		Part 3.0 Structural Provisions	1		
3.02	Resistance to actions	The resistance of a building or structure must be greater than the most critical action effect resulting from different combinations of actions, where- (a) the most critical action effect on a building or structure must be determined in accordance with 3.0.3 and the general design procedures contained in AS/NZS 1170.0; and (b) the resistance of a building or structure is determined in accordance with 3.0.4. The associated structural engineers report from DRB consulting engineers notes that most structural provisions are compliant with	Compliance subject to recommendations in associated engineering report		
3.03	Determination of individual actions	the exception of those mentioned in the recommendations section of their report. The magnitude of individual actions must be determined in accordance with the following: Permanent actions; imposed actions, wind and earthquake actions; the actions considered must include, the nature of the action, the nature of the building, the importance level (Table 3.03a defines this structure as important level 2)	Note		
		The determination should be assessed against AS1170.1, AS1170.2, AS1170.3, AS1170.4, AS4055 as appropriate and include but not limited to- Liquid pressure action and ground water action; and rainwater action (including ponding action); and earth pressure action; and differential movement; and time dependent effects (including creep and shrinkage); and thermal effects; and ground movement caused by swelling, shrinkage or freezing of the subsoil; and			

Table 1 – NCC/BCA Assessment

		(a) landslip or subsidence; and siteworks associated with the building or structure; and construction activity actions.	
3.04	Determination of structural resistance of materials and forms of construction	The following requirements, or any combination of them, must be used to determine the structural resistance of materials and forms of construction as appropriate: Part 3.1, Part 3.2 (or AS3600) (AS5216 as required), Part 3.3, Part 3.4 (AS2327, AS1664.1, AS1664.2 as required), Part 3.5, Part 3.6, Part 3.9 (AS1170.1 as required), Part 3.10 (AS4505 as required)	Note
3.05		Structural software used on computer aided design of a building must comply with this clause and use criteria based of the DTS provisions of the Housing provisions volume of the NCC.	Note
	• •	Part 3.1 Site Preparation	·
3.1.1.1	Unretained bulk earthworks- site cut	No site works governed by this clause.	N/A
3.1.1.2	Un-retained bulk earthworks- fill	No site works governed by this clause	N/A
Part 3.1.2	Earth retaining stru	ictures	
3.1.2.0		No retaining wall proposed as part of this application nor were any observed on site	N/A
Part 3.1.3	Drainage		
3.1.3.2	Drainage requirements	Compliance with 3.1.3.3, 3.1.3.4 and 3.1.3.5 required. See these clauses for more information	Does not comply requires work
3.1.3.3	Surface water drainage	The surface surrounding the structure should fall 50mm over the first 1m away from the building	Generally Complies
3.1.3.4	Subsoil drainage	No Subsoil drainage installed	N/A
3.1.3.5	Stormwater drainage	Stormwater is connected to the stormwater system of the adjacent existing dwelling. BASIX requirements are likely to impose the requirement of a stormwater tank.	Can Comply BASIX requirements to determine

Part 3.1.4	Termite risk manag	gement		
3.1.4.2	Requirements of termite management systems	elements compo cladding. Any co structural rectific associated engin consulting engin naturally resistan Appendix C of A treated timber in of AS3660.1 or a	cture has most structural sed of timber, with steel mponent used to achieve the ations outlined in the neering report from DRB eers must be of steel or nt timber in accordance with S3660.1, a preservative accordance with Appendix D an alternative termite n complying with AS3660	See notes
3.1.4.3	Termite Management Systems	required it must l to the below tabl be tested in acco Section 5, have a accordance with where a chemica	management system is be selected appropriate e, comply with AS3660.1 or ordance with AS3660.3 a durable notice installed (in the following clause) and al treatment is used, the e included on the appropriate cides register.	
Table 3.1.4	4.1 Acceptable termite	management system	s and components	
Building	22 - C. (22 - 20 - 20 - 20 - 20 - 20 - 20 - 20		Termite management system or	component options
1224 131 26	slab-on-ground:		Slab edge exposure	
Slab perimeter or external wall perimeter		Sheet material		
		Granular material		
			Chemical	
Concrete	slab-on-ground:		Sheet material	
Penetrations/control joints/area beneath the slab (see		Granular material		
Note)		Chemical		

 Note)
 Chemical

 Suspended floors
 Sheet material

 Granular material
 Granular material

 Chemical
 Chemical

 Attachments to buildings
 Termite management system to the attachment

 Inspection zone between attachment and building

Note to Table 3.1.4.1: The entire area beneath the slab must be treated when the slab-on-ground is not designed and constructed in accordance with AS 2870 or AS 3600.

3.1.4.4	Durable notice	When works are completed to meet other requirements relating to frame components, a durable notice (sticker) must be installed into the meterbox, noting the method of termite protection employed.	Can comply		
	Part 3.2 Footings and slabs				
		Concrete slab is in place. No further concrete works are proposed as part of this application. The associated engineering report from DRB	Can Comply,		

		notes that eastern end pad footings require enlargement or replacement to comply with AS 2870. Note 1: Vapour barriers are required as part of a class 1a structure to prevent rising damp implications. While systems can be retrofitted to meet this requirement, it was noted onsite inspection that there is evidence of vapour barrier installation. While this does not confirm the proper and complete installation (only a destructive inspection could go partway in determining) it does however provide a good indication that a vapour barrier is likely to exist.	
		Part 3.3- Masonry	
		No masonry utilised in the structure	N/A
		Part 3.4- Framing	
	ub-floor ventilatio		
3.4.1.2	Sub-floor ventilation	No sub-floor – Slab on ground	N/A
-	teel Framing		
3.4.2.1		Any steel framing must comply with AS 4600 or the 'NASH' standard and the frame material requires to have a yield stress of not less than 250MPa. The associated engineering report from DRB mentions the steel framing present in the shed structure and notes no changes in order for compliance.	Complies
Part 3.4.3 T	imber Framing		
3.4.3.0	Acceptable Construction Manuals	The associated engineering report from DRB consulting engineers mentions several requirements for the existing roof framing to be compliant with AS1684. Elements requiring attention include the hardwood rafters, purlin section roof beam, wall batten spacing, and various fixings and tie-downs.	Can Comply, Works required in accordance with engineering report
Part 3.4.4 S	tructural Steel Me	mbers	
3.4.4	Application	 Performance Requirement P2.1.1 is satisfied for structural steel sections if they are designed and constructed in accordance with one of the following: (a) Steel structures: AS 4100. (b) Cold-formed steel structures: AS/NZS 4600. 	Complies

		The associated engineering report from DRB mentions the structural steel members			
		present in the structure and notes no			
		changes in order for compliance.			
		Part 3.5- Roof and wall cladding			
3.5.1.0	loof Cladding	Metal roofing must comply with AS1562.1.	Can comply		
5.5.1.0	construction		Carr comply		
	manuals	Upgrades to the structural roof members may			
		require the sheet/s to be removed the			
		(re)installing of sheets should be confirmed with AS1562.1 for habitable structures. This			
		would include upgrades to flashing of roof			
		penetrations.			
3.5.2.1	Sutters and downp	The roof drainage system is connected to a	Complies		
0.0.2.1		stormwater drainage system is connected to a			
		with Part 3.1.2. (see comments Part 3.1.2)			
		Note 1: overflows during heavy rain should			
		be diverted away from the building			
3.5.2.5	Downpipes-	Downpipes must not serve more than 12m of	Complies		
	size and installation	gutter length for each downpipe.	Can comply with		
	motaliation	Note: it was noted on site that only 1	redesign and		
		downpipe per gutter was in place. While this	reworking of		
		may serve the purpose for the current structure and ease collection of stormwater to	stormwater system.		
		the water tanks, it does not comply. The	Should be		
		downpipes and stormwater system must	redesigned in		
		either comply with the requirements of this	accordance with		
		clause or AS3500.3 or AS3500.5.	suggestions in Part 3.1.3		
			F art 5.1.5		
	letal Wall Claddin				
3.5.5.0	Metal Wall	Metal wall cladding must be designed and	Complies		
	Cladding	installed in accordance with AS1562.1			
		Associated engineering report from DRB			
		consulting engineers confirms general			
		compliance and does not identify the cladding			
		of the structure as needing rectification for compliance.			
	Part 3.6- Glazing				
3.6.0	Acceptable construction	All windows in external walls should be confirmed to comply with AS2047	Compliance unable to be		
	manuals		confirmed.		
		Some of the current window installation/s can	Requires		
		be seen in images 1, 2, 3, 4 and 5	certification (or		
			similar) from		

		Part 3.7- Fire Safety	window manufacturer/ installer that windows comply with AS2047
	ire Separation of		
3.7.2.2	External walls of class 1 buildings	Walls less than 900mmm require fire protection. Walls on structure are in excess of this distance from all boundaries.	Complies
Part 3.7.5 S		l evacuation lighting	
3.7.5.2	Smoke alarm requirements	Smoke alarms must be installed in a class 1a/ 1b buildings and must comply with AS3786 and be hard wired	Note
3.7.5.4	Location - Class 1b buildings	In a Class 1b building, 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 the bedrooms and the remainder of the building; and (c) each other storey. Degram c Class 1b building where multiple bedrooms are served by a hallway University of the serve to be bedroom of the serve to be a hallway Lights in the serve to be bedroom of the serve to be b	Can comply. Confirm locations and hard wiring/ compliance with AS3786.
3.7.5.5	Installation of smoke alarms	 Smoke alarms required by 3.7.5.3 (not included as this is a Class 1a dwelling requirement only) and 3.7.5.4 must be installed on or near the ceiling, in accordance with the following: (a) Where a smoke alarm is located on the ceiling it must be- (i) a minimum of 300 mm away from the corner junction of the wall and ceiling; and (ii) between 500 mm and 1500 mm 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 300 mm and a 	Note

	maximum of 500 mm off the ceiling at the junction with the wall.				
Lighting to assist evacuation – Class 1b buildings	In a Class 1b building, 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 3.7.5.4(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.	Can comply; Installation required			
	Part 3.8- Health and amenity				
let areas and exte					
Wet areas	Wet areas (when installed) must be in compliance with Table 3.8.1.1 an AS3740. Wet area flashing is assumed to be in place where appropriate; presence of WAF is difficult to determine once tiles/wet areas are	Can comply; Subject to completion of works (See figures 6 and 7)			
	Note 1: Linings must comply with the table and wet area flashing (WAF) must be installed complying with AS3740. (installer of WAF can supply associated compliance certificates)	See adjacent notes			
oom Heights					
Heights of rooms and other spaces	Heights of rooms and other spaces (see Figure 3.8.2.1) must be not less than- (a) in a habitable room excluding a kitchen - 2.4 m; and (b) in a kitchen - 2.1 m; and (c) in a corridor, passageway or the like - 2.1 m; and (d) in a bathroom, shower room, laundry, sanitary compartment, airlock, pantry, storeroom, garage, car parking area or the like - 2.1 m;	Complies			
acilities					
Part 3.8.3 Facilities NCC/BCA Vol.1 – Part D3.1 Access for people with a disability					
General building access requirements	Class 1b (a) Dwellings located on one allotment Note 1 and used for short-term holiday accommodation, consisting of- (i) 4 to 10 dwellings- access requirement to and within 1 dwelling	N/A; See note 1			
	assist evacuation – Class 1b buildings //et areas and exter Wet areas //wet areas	junction with the wall.Lighting to assist evacuation – Class 1b buildingsIn a Class 1b building, 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 3.7.5.4(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.Part 3.8- Health and amenityVet areasWet areasWet areasWet areasWet areasWet areasWet area flashing is assumed to be in place where appropriate; presence of WAF is difficult to determine once tiles/wet areas are constructed.Note 1: Linings must comply with the table and wet area flashing (WAF) must be installed complying with AS3740. (installer of WAF can supply associated compliance certificates)coom HeightsHeights of rooms and other spaces(a) in a habitable room excluding a kitchen - 2.4 m; and (b) in a kitchen - 2.1 m; and (c) in a corridor, passageway or the like - 2.1 m; and (d) in a bathroom, shower room, laundry, sanitary compartment, airlock, pantry, storeroom, garage, car parking area or the like - 2.1 m; access requirements(c) 1 - Part D3.1 Access for people with a disabilityGeneral building access requirements(i) 4 to 10 dwellings- access requirement to and within 1			

		Note 1: As the short-term holiday accommodation in this clause refers to 4- 10 dwellings and the proposal is only for 2 dwellings to be used in this way; this clause does not apply and is provided for information and clarity only	
3.8.3.2	Required facilities	A class 1 building (dwelling) must be provided with; a kitchen sink and facilities for the prep and cooking of food; a bath or shower; clothes washing facilities- comprising of at least one washtub and space in the same room for a washing machine; a toilet and washbasin (for exclusive handwashing). See figures 6, 7, 8, 9 and 10	Complies
3.8.3.3	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 1.2 m, measured in accordance with Figure 3.8.3.3, between the closet pan within the sanitary compartment and the doorway.	Complies
Part 3.8.4 L	iaht		
3.8.4.2	Natural lighting	All habitable rooms should be provided with natural light consisting of a provision of not less than 10% of the floor area of the room.	Complies
3.8.4.3	Artificial lighting	Sanitary compartments, bathrooms, shower rooms, airlocks and laundries must be provided with artificial lighting if natural light in accordance with the relevant provisions of 3.8.4.2 is not available— (a) at a rate of not less than one light fitting per 16 m2 of floor area; or (b) in accordance with AS/NZS 1680.0.	Complies
Part 3.8.5 V	entilation		
3.8.5.2	Ventilation requirements	Ventilation must be provided to a habitable room, sanitary compartment, bathroom, shower room, laundry and any other room occupied by any person with an openable portion of not less than 5% of the floor area. <i>Note 1: as most windows are 50% openable</i> <i>if the requirements of 3.8.4.2 are met then</i> <i>the requirements for natural ventilation are</i> <i>also satisfied</i>	Complies

3.8.5.3 Part 3.8.6 S	Location of sanitary compartments	Sanitary compartments must not open directly into a kitchen or pantry unless- (a) access is by an airlock, hallway, or other room; or (b) the sanitary compartment is provided with an exhaust fan or other means of mechanical exhaust ventilation.	Complies
3.8.6.2	Sound insulation requirements	Only required where two or more class 1 structures are adjacent each other	N/A
Part 3.8.7 C	Condensation man	agement	
		 (a) Where a pliable building membrane is installed in an external wall, it must— (i) comply with AS/NZS 4200.1; and (ii) be installed in accordance with AS 4200.2; and (iii) be a vapour permeable membrane for climate zones 6, 7 and 8; and (iv) be located on the exterior side of the primary insulation layer of wall assemblies that form the external envelope of a building. (b) 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. Note 1: While there was evidence of vapour barriers on site upon inspection, compliance is assumed as non-destructive tests cannot determine full compliance.	Assumed Compliance
		Part 3.9- Safe movement and access	
	tair Construction		
3.9.1.2	Stairway Construction	A stairway must be designed to take loading forces in accordance with AS/NZS 1170.1 and must have— between 2 and 18 risers per flight. Stairways must have goings, risers, and a slope relationship quantity in accordance with Table 3.9.1.1. The engineer's report associated with this BCA report confirms general compliance with AS1170.1, and details no works for the	Complies

				rway in the s pliant.	hed structure	e to be			
Table 3.9.1.1 F	Riser and go	ing dime	ension	s (mm)				I	
Stair	Stair type (see Fi		Riser (R) igure 3.9.1.4 below)		Going (G) (see Figure 3.9.1.4 below)		s	Slope relationship (2R+G)	
Stairs (a)	h th	Ma		Min	Max	Min		Max Min	
Stairs (ot spir		190	,	115	355	240		700 550	
Spi	ral	220)	140	370	210	6	680 590	
Part 3.9.1 S	1							Comm	liaa
3.9.1.2	Barriers t	alls	A continuous barrier must be provided along the side of a trafficable surface, such as— i. a stairway, ramp or the like; and ii. a floor, corridor, hallway, balcony, deck, verandah, mezzanine, access bridge or the like; andCompliesiii. a floor, corridor, hallway, balcony, deck, verandah, mezzanine, access bridge or the like; andSee 3.9.2.2iii. a roof top space or the like to which general access is provided; and iv. any delineated path of access to a building, where it is possible to fall 1 m or more measured from the level of the trafficable surface to the surface beneath					2.9.2.2	
3.9.1.4	Slip-resis	stance	The requirements for slip-resistance treatment to stair treads, ramps and landings are as follows:				Assumed compliance		
			 (a) Treads must have— (i) a surface with a slip-resistance classification not less than that listed in Table 3.9.1.3 when tested in accordance with AS 4586; or (ii) a nosing strip with a slip-resistance classification not less than that listed in Table 3.9.1.3 when tested in accordance with AS 4586. (b) The floor surface of a ramp must have a slip-resistance classification not less than that listed in Table 3.9.1.3 when tested in accordance with AS 4586. (b) The floor surface of a ramp must have a slip-resistance classification not less than that listed in Table 3.9.1.3 when tested in accordance with AS 4586. (c) Landings, where the edge leads to the flight below, must have— (i) a surface with a slip-resistance classification not less than that listed in Table 3.9.1.3 when tested in accordance with AS 4586, for not less than 190 mm from the stair nosing; or (ii) a nosing strip with a slip-resistance classification not less than that listed in Table 3.9.1.3 when tested in accordance with AS 4586, for not less than 190 mm from the stair nosing; or (ii) a nosing strip with a slip-resistance classification not less than that listed in Table 3.9.1.3 when tested in accordance with AS 4586. 			AS 45 to det	ng in dance with 586 required ermine liance.		

	Table 3.9.1.3 Slip-resistance					
	Application	Dry surface conditions	-			
ļļ	Ramp not steeper than 1:8	P4 or R10	P5 or R12			
	Application	Dry surface conditions	Wet surface condition	s		
	Tread surface	P3 or R10 P3	P4 or R11 P4			
l	Nosing or landing edge strip	F3	P4			
3.9.2 E	Barriers and handrails					
3.9.2.2			prevent falls from the	Can Comply,		
	barriers to	stairs within the shed stru				
	prevent falls	complaint, with the excep	otion of the non-	Works required.		
		compliant openings. Barr				
		leading to the loft space r				
		compliant with 3.9.2.3 (c)	-			
		sphere cannot pass throu	ign the barfler.			
	Part 3.10- Anci	illary provisions and addition	al construction require	ements		
Part 3	.10.1 High Wind Area					
	<u>y</u>		The site is not considered a high wind area			
		outside the scope of that				
		the BCA				
Part 3.	.10.2 Earthquake Area			A // A		
		Most domestic structures considered resistant to ea		N/A		
		loads catered for within w	•			
		generally considered adequate for				
			earthquake resistance. AS1170.4 can offer			
		•	additional information in this regard and could			
			be considered as part of the engineering			
		certification suggested els	certification suggested elsewhere in the body			
		of this report.				
Part 3.	.10.3 Flood Hazard A	The siting of the structure	is not identified as	N/A		
		a flood hazard area				
3.10.5	Construction in Bush	fire Prone Areas				
3.10.5		Performance Requiremer	nt P2.7.5 is satisfied	Complies;		
		for—				
		(a) a Class 1 building; or				
			(b) a Class 10a building or deck associated			
		with a Class 1 building,				
		located in a designated b				
		it is constructed in accord	ance with-			
		(c) AS 3959; or (d) NASH Standard – Ste	el Framed			
		Construction in Bushfire				
		•				

Part 3.12- Energy efficiency		
	Energy efficiency for habitable structures in NSW is managed through the BASIX system. A BASIX certificate and modelling will be required to satisfy this requirement	Information only Requires BASIX certificate

The following attachments are provided under separate cover:

ATTACHMENT 1 – Site images

Attachment 1



Image 1: Northern window installation



Image 2: Southern window installation in kitchen area



Image 3: Southern window installation



Image 4: Southern window installation



Image 5: Northern bedroom window installation



Image 6: WC facilities



Image 7: Shower facilities



Image 8: Kitchen sink and facilities



Image 9: Kitchen facilities and benchtop

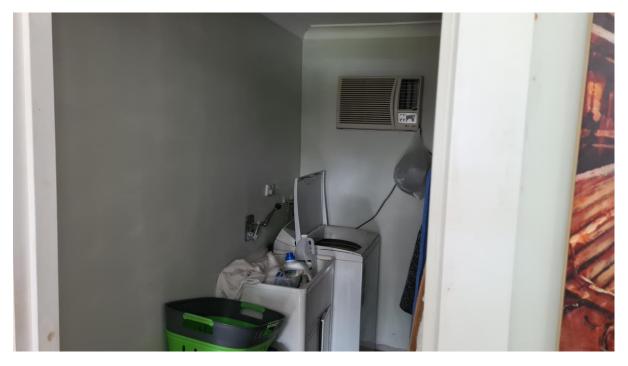


Image 10: Laundry washtub and washing machine



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