#### CURRENT REVISION + NOTES

Date: Description: 03.01.23 CLIENT CHG DECK Issue: Drawn В DC

# **PROPOSED DWELLING**

**CLIENT:** WHITE **STATUS: CONSTRUCTION** LOT No: 80 **DP No:** 251603 STREET: 845 RIDGE ROAD, COOKS GAP CWC JOB #: D5489



REVISION

В

В

В

В

В

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PROJECT STATUS: PRELIMINARY CC ISSUE **REVISION:** A DESIGNER: LN DATE ISSUED: 19.12.22



& PLANS CAN BE FINALISED.

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SIGNATURE:

DATE:



# GENERIC | TYPICAL KEY, LEGEND AND ABBREVIATIONS FOR COLLINS W COLLINS ARCHITECTURAL PLANS

THESE NOTES MUST BE READ AND UNDERSTOOD BY ALL INVOLVED IN THE PROJECT. THIS INCLUDES (but is not limited to): OWNER, BUILDER, SUB-CONTRACTORS, CONSULTANTS, RENOVATORS, OPERATORS, MAINTENORS, DEMOLISHERS. PLEASE USE THIS IN CONJUNCTION WITH ALL DRAWING SHEETS AND VIEWS CONTAINED FORTHWITH IN THIS PLAN SET. ISED IANI IDADV 2021

REVISED	JANUKAKY	2021

SYMBOLS AND	DLINES				
SITE PLAN   S68 S	138 PLAN	ΛΛ			
	LOT BOUNDARY	$\triangle \land \triangle$	FALL OF BATTER SLOPE	E.P	ELECTRICAL CUBICLE / PIT
	SEWER LINE	A	DRIVEWAY SURFACE	NBN	NBN PIT
	STORMWATER LINE	$\sim$	GARDEN TAP	T.PIT	TELECOMMUNICATIONS PIT
	WATER CONNECTION LINE	•	WATER METER / ALTERNATE WATER METER		TO BE DEMOLISHED / REMOVED
	DOWNPIPE TO WATER TANK		SANDBAG		DEMOLITION LINE
	DOWNPIPE FROM TANK TO APPLIANCE	$\sum$	TEMPORARY HOARDING GATES		
	SILTATION CONTROL FENCING	$\langle \rangle$			
	SITE HOARDING FENCING		STREET TREE / SITE TREE		
	BATTER EXTREMITIES LINE	XIV			
	EASEMENT BOUNDARY	-	LIGHT POLE		
	OVERHEAD POWER LINES	PP	POWER POLE		
FLOOR PLANS / SE	CTIONS (INCL SETOUT, ROOF, DETAIL CALL OUTS)				
	OVERHEAD ITEM		FILL (TO ENGINEERS DETAIL)	F→GTAP	GARDEN TAP
	DEMOLITION LINE		WET AREA TILED FLOOR SURFACE	O DP	RAINWATER DOWN PIPE: TO AS 3500
	UPPER FLOOR OUTLINE		COMMON / OUTDOOR TILED FLOOR SURFACE	E,	TO AS3786 AND SECTION 3.7.5 OF THE NCC BCA VOL 2 <sup>4</sup> ALL ALARMS/DETECTORS ARE TO BE SMOKE ALARMS; INTERCONIECTED, LOCATIONS ON PLANS ARE INDUCATIVE. INSTALLATION TO BE AS PER STANDARDS ABOVE, AND MANUFACTUREDS SPECIFICATIONS
		- · · · · ·	BROOM FINISH CONCRETE FLOOR SUBFACE		

OVERHEADTEIN			1 01/1	Shilden hi
 DEMOLITION LINE		WET AREA TILED FLOOR SURFACE	O DP	RAINWATER DOWN PIPE: TO AS 3500
 UPPER FLOOR OUTLINE		COMMON / OUTDOOR TILED FLOOR SURFACE	I,	TO AS3786 AND SECTION 4.7.5 OF THE NCC BCA VOL 2 ALL ALARMS/DETECTORS ARE TO BE SMOKE ALARMS: MITERCONNECTED LOCATIONS ON PLANS ARE INDICATIVE. INSTALLATION TO BE AS PER STANDARDS ABOVE AND MANUFACTUREDS SPECIFICATIONS
 ROOF OUTLINE OVER	-Y x - x / y	RROOM FINISH CONCRETE FLOOR SURFACE		MECHANICAL VENTILATION: MECHANICAL VENTILATION EXTERNALLY DUCTED TO NCC 3.8.7.3 & 3.8.7.4
 RAKED CEILING LINE		MASONRY WALL		SLIDING DOOR UNIT OPENING DIRECTION
 BEAM LINE		CONCRETE	EXT. DUCT	SLIDING WINDOW OPENING DIRECTION
 SQUARE SET OPENING		TIMBER/METAL STUD FRAMED WALL	$\rightarrow$	AWNING CASEMENT WINDOW OPENING DIRECTION
 TERMITE PROTECTION: TO A.S 3660.1		CONCRETE BLOCK WALL	$\overline{\nabla}$	HINGED DOOR OPENING DIRECTION
 NATURAL GROUND LINE (EXCAVATED)	7/ 7/ 7/			GAS BOTTLES
COLUMN (MATERIAL AS PER SCHEDULE OR PLAN)		METAL SHEET ROOFING		ELECTRICAL METER BOX
MASONRY PIER (SIZE AS PER SCHEDULE OR PLAN)		KLIP LOK (OR SIMILAR) METAL SHEET ROOFING	MB	GAS INSTANTANEOUS HOT WATER SERVICE
ENGAGED PIERS: TO COMPLY WITH AS 4773.1-2010 & AS 4773 2-2010		TILED ROOF	HWS	HOT WATER TANK
INSULATION BATTING		WAFFLE POD (TO ENGINEERS DETAIL)		SOLAR HOT WATER SERVICE
TO BE DEMOLISHED / REMOVED	00000000000 0000000000 00000000000 00000	TACTILE GROUND SURFACE INDICATORS: TO AS 1428.4.1:2009		сооктор
EARTH / SOIL	1 2 3 4 5 6	STAIRS INCLUDING DIRECTION OF TRAVEL (UP)		SINK TYPICAL
		RAMP INCLUDING DIRECTION OF TRAVEL (UP)	808	
			Ŀ	

#### GENERAL SYMBOLS AND ARCHITECTURAL SYMBOLS

<	W	01	>

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NORTH
WINDOW TAG (DA/CC)

DOOR TAG (DA/CC)

AVERAGE RECURRANCE INDEX

AUSTRALIAN HEIGHT DATUM

CROSS LAMINATED TIMBER

DEVELOPMENT CONTROL PLAN

COLUMN

COST OF WORKS

TYPICAL SECTION MARKER TYPICAL ELEVATION MARKER VIEW TAG AND SCALE VIEW

### RENOVATION / DEMOLITION SYMBOLS



GENERAL ABBREVIATIONS

ARI

AHD

CLT

COL.

cow

DCP

TO BE DEMOLISHED OR REMOVED EXISTING ITEM / ELEMENT (FLOOR/WALLS/WINDOWS ETC) PROPOSED NEW ITEM / ELEMENT



FIXED GLASS / PANEL

FIXED GLASS WINDOW

GARDEN TAP

GARAGE

GLUE LAMINATED TIMBER

GENERAL POWER OUTLET

F

FG

GLT

GTAP

GPO

GRG

TO BE DEMOLISHED OR REMOVED

EXISTING AREA / FACADE / ROOM

UPPER FLOOR PLASTER BOARD ΡВ

ΡV

RL

SB

MULTI STOREY SITE PLAN SYMBOLS / LEGEND

LOWEST FLOOR (GROUND TYPICAL)

RET. WALL RETAINING WALL REINFORCED CONCRETE RC

PHOTO VOLTAIC

MIDDLE FLOOR

REDUCED LEVEL

SUB ELECTRICAL METER BOX

DEG.	DEGREES	HWS	HOT WATER SERVICE	SL	SURFACE LEVEL
DGPO	DOUBLE GENERAL POWER OUTLET	LEP	LOCAL ENVIRONMENT PLAN	sw	STORM WATER
DH	DOUBLE HUNG WINDOW	LOH	LIFT OFF HINGE	TRH	TOILET ROLL HOLDER
DP	RAINWATER DOWN PIPE	LVL	LAMINATED VENEER LUMBER	Т.О.К	TOP OF KERB
DTR	DOUBLE TOWEL RAIL	MECH.	MECHANICAL	T.O.W	TOP OF WALL
HWS	HOT WATER SERVICE	МВ	ELECTRICAL METER BOX	wc	WATER CLOSET
FC	FIBRE CEMENT	MR	MOISTURE RESISTANT	1650B	BATH SIZING
F.S.L	FINISHED SURFACE LEVEL	мн	MAN HOLE	900V	VANITY SIZING
		NGL	NATURAL GROUND LINE	820	INTERIOR DOOR SIZING

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		STATUS: CONSTRUCTION	SHEET:	1 OF 10	SCALE:	1:100	19.12.22	INITIAL ISSUE	А	LN
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collinswcollins	check all the dimensions on the job prior to	STREET: 845 RIDGE ROAD, COOKS GAP					00.01.20			50
Building Designers	commencement of shop drawings or fabrication. Discrepancies to be referred to the consultant				START DATE:	19.12.22				
Building Designers	Designer prior to commencement of work.	CLIENT: WHITE			DWG No:	D5489				
89A lord street (PO Box 5667), Port Macquarie nsw 2444   Shop 17 Centrepoint Arcade, Taree NSW 2430				3 4411	F: 02 65	83 9820		WWW. COLLINSWO	COLLINS.	COM.AU



SITE INFORMATION SITE AREA: HABITABLE AREA (including garages) FSR (as per LEP) BUSHFIRE AFFECTED APPROX 83m <sup>2</sup> HARDSTAND AREA	= 101205.5m² =10.1Ha	 GTAP \	SILTATION CONTROL IN AG WITH COUNCIL POLICY E1 ADOPTED AUSPEC STANDA SEWER LINE GARDEN TAP LOCATION	AND THE		A A FALL OF ALL LEVE (APPRO)	ELS WERE COM	IPLETED B /ELS AND 0 PRIOR TO 5	Y DE WITT CONSULTING CONTOURS TO BE CONF START OF CONSTRUCTIC	IRMED	
BUSHFIRE NOTES:       BASIX NOTES:       GENERAL PLAN SET NOTES:         BAL = 40       PLEASE REFER TO BUSHFIRE REPORT BY ACCESS ENVIROMENTAL       PLEASE REFER TO THE "SUMMARY OF BASIX COMMITMENTS" ON       CHECK ALL DIMENSIONS ON SITE. THIS DRAWING IS TO BE READ IN         PLANNING       PLANNING       PAGE 2 FOR FURTHER INFORMATION. PLEASE REFER TO THE BASIX       CONJUNCTION WITH ALL RELEVANT CONTRACTS, SPECIFICATIONS,         REF: OCTOBER 2022 AND CONSTRUCTED IN ACCORDANCE TO       CONSTRUCTED IN ACCORDANCE TO       AUS & NZ STANDARDS, ENGINEERING & COUNCIL APPROVALS											
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	otherwise, without the prior permission of the	STATUS: CONS		SHEET:	2 OF 10	SCALE:	As indicated	19.12.22	Description: INITIAL ISSUE CLIENT CHG DECK	Issue: A B	Drawn: LN DC
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	Discrepancies to be referred to the consultant Designer prior to commencement of work.	CLIENT: WHIT	E	DWG No:	D5489						
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		commencement of shop drawings or fabrication.				START DATE:	19.12.22					
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89A lord street (	O Box 5667) Port Maca	uarie NSW 2444   Shop 17 Centrepoint	Arcade Taree NSW 2/130 T	T: 02 6583 441	1	E: 02	6583 9820		WWW. COLLINSWC			



Ĺ	BUSHFIRE NOTES:	BASIX NOTES:	GENERAL PLAN SET NOTES:
	20,000LTR WATER TANK AND 20,000LTR FIREFIGHTER TANK, WATER TANK TO THEN OVERFLOW TO EXISTING DAM ON SITE (SURFACE AND SUB-SURFACE STORMWATER TO BE DISPOSED OF VIA PIPEWORK IN ACCORDANCE WITH AS 3500) CATCHMENT OF ROOF AREA TO BE: TBCm <sup>2</sup> DIRECTED TO TANK (TO BE USED AS GUIDE ONLY)	<ul> <li>POLICY E1 AND THE ADOPTED AUSPEC STANDARD</li> <li>POLICY E1 AND THE ADOPTED AUSPEC STANDARD</li> <li>WATER FLOW FROM TANK TO APPLIANCES (TO BE USED AS A GUIDE ONLY)</li> <li>UAWN &amp; GARDEN AREA TO BE 300m<sup>2</sup> (AS PER BASIX CERTIFICATE TO BE USED AS A GUIDE ONLY)</li> </ul>	GTAP       GARDEN TAP LOCATION         DP°       DOWN PIPE LOCATION         ALL LEVELS WERE COMPLETED BY DE WITT
	S68 & S138 SITE INFORMATION 8 STORMWATER/RAINWATER OVERFLOW TO PROPOSED	<b>LEGEND</b>	II SEWER LINE

BAL = 40 PLEASE REFER TO THE "SUMMARY OF BASIX COMMITMENTS" ON CHECK ALL DIMENSIONS ON SITE. THIS DRAWING IS TO BE READ IN BAL - 40 PLEASE REFER TO BUSHFIRE REPORT BY ACCESS ENVIROMENTAL PAGE 2 FOR FURTHER INFORMATION. PLEASE REFER TO THE BASIX CONJUNCTION WITH ALL RELEVANT CONTRACTS, SPECIFICATIONS, CERTIFICATE FOR EXACT DETAILS. REPORTS, DRAWINGS, LEGENDS, NATIONAL CONSTRUCTION CODE, PLANNING AUS & NZ STANDARDS, ENGINEERING & COUNCIL APPROVALS **REF: OCTOBER 2022** AND CONSTRUCTED IN ACCORDANCE TO AS 3959-2018 Note: Copyright © 2022: Collins.w.Collins PTY LTD All rights reserved. No part of this drawing may be reproduced or transmitted in any form or by means, electronic, mechanical, photocopying, recording or otherwise, without the prior permission of the constrict helder. S68 & S138 PLAN DRAWING REVISIONS + NOTES PROJECT: PROPOSED DWELLING -4 Date: Description: 19.12.22 INITIAL ISSUE STATUS: CONSTRUCTION As indicated SCALE: SHEET: 4 OF 10 03.01.23 CLIENT CHG DECK Copyright holders. DO NOT SCALE from this drawing. CONTRACTOR is to check all the dimensions on the job prior to commencement of shop drawings or fabrication. Discrepancies to be referred to the consultant Designer prior to commencement of work. LOT No: 80 DP No: 251603 SHEET SIZE: A2 collinswcollins STREET: 845 RIDGE ROAD, COOKS GAP 19.12.22 START DATE: **Building Designers** CLIENT: WHITE DWG No: D5489

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# GENERAL AND PROJECT SPECIFIC CONSTRUCTION NOTES FOR COLLINS W COLLINS ARCHITECTURAL PLANS

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#### GLAZING SPECIFICATIONS:

WINDOWS SPECIFIED USE NFRC UW & SHGCW VALUES. WINDOWS AS SPECIFIED OR EQUIVALENT MUST BE INSTALLED ON SITE

STANDARD GLAZING: SINGLE CLEAR GLAZING WITH STANDARD ALUMINIUM FRAMES THROUGHOUT

WEATHER STRIPPING TO BE INSTALLED THROUGHOUT.

PLEASE NOTE: ALL GLAZING IN BATHROOMS, ENSUITES. SPA ROOMS OR THE LIKE TO COMPLY WITH PART 3.6.4.5 OF THE BCA

BEDROOM WINDOWS - WHERE THE FLOOR LEVEL OF A BEDROOM IS MORE THAN 2m ABOVE THE SURFACE BENEATH, BEDROOM WINDOWS ARE TO COMPLY WITH BCA VOL 2 PART 3.9.2.6

WINDOWS AND GLAZING TO COMPLY WITH: AS 4055 : WIND LOADS FOR HOUSING AS 1288 : GLASS IN BUILDING - SELECTION & INSTALLATION AS 2047 : WINDOWS & EXTERNAL DOORS IN BUILDING AS 1170-Part 2: WIND ACTIONS AS 3959 : CONSTRUCTION OF BUILDINGS IN BUSHFIRE

PRONE AREAS THE STANDARDS REFERRED ABOVE ARE THE VERSION ADOPTED BY BCA AT THE TIME THE RELEVANT

CONSTRUCTION CERTIFICATE OR COMPLYING DEVELOPMENT CERTIFICATE APPLICATION IS MADE

### **CONSTRUCTION NOTES:**

STAIRS, HANDRAILS & BALUSTRADE NOTES: STAIRS TO COMPLY WITH SECTION 3.9.1.2, 3.9.1.3 & SECTION 3 9 1 5 & 3 9 1 4 SLIP RESISTANCE CLASSIFICATION TABLE IN ACCORDANCE WITH

AS4586. HANDRAIL HEIGHTS TO BE NO LESS THAN 1000mm FROM PROPOSED FINISHED FL. BALUSTRADE & HANDRAIL TO BE IN ACCORDANCE WITH 3.9.2.3 &

#### 3.9.2.4 OF THE BCA

WINDOW NOTES: BEDROOM WINDOWS - WHERE THE FLOOR LEVEL OF A BEDROOM IS 2M OR MORE ABOVE THE SURFACE BENEATH, BEDROOM WINDOWS ARE TO COMPLY WITH VOL 2 BCA PART 3 9 2 6

#### WINDOWS - WHERE THE FLOOR LEVEL IS 4m OR MORE ABOVE THE SURFACE BENEATH, WINDOWS ARE TO COMPLY WITH VOL 2 BCA PART 3.9.2.7. BARRIER WITH A HEIGHT OF NOT LESS THAN 865mm ABOVE FLOOR IS REQUIRED TO AN

OPENABLE WINDOW TO COMPLY WITH VOL 2 BCA PART 3.9.2.6 (c) & 3.9.2.7 (b) WIND CATEGORY TO BE CONFIRMED PRIOR TO START OF CONSTRUCTION. IF N2 OR HIGHER. ENGAGED PIERS TO BRICKWORK AREA'S ARE TO COMPLY WITH AS 4773.1-2010 & AS 4773 2-2010



ALL GAS BOTTLE STORAGE AND HANDLING IN ACCORDANCE WITH AS1596-2014

### GAS BOTTLES ON BUSHFIRE PRONE SITES:

- DEVELOPMENT STANDARDS FOR BUSHFIRE PRONE LAND RETICULATED OR BOTTLED GAS ON THE LOT IS INSTALLED AND MAINTAINED IN ACCORDANCE WITH AS/NZS 1596-2008, THE STORAGE AND HANDLING OF LP GAS AND THE REQUIREMENTS OF RELEVANT
- AUTHORITIES (METAL PIPING MUST BE USED, AND ANY GAS CYLINDERS ON THE LOT THAT ARE WITHIN 10M OF A DWELLING HOUSE:
- HAVE THE RELEASE VALVES DIRECTED AWAY FROM THE DWELLING HOUSE, AND
- ARE ENCLOSED ON THE HAZARD SIDE OF THE
- INSTALLATION, AND HAVE METAL CONNECTIONS TO AND FROM THE
- CYLINDERS THE REQUIREMENTS OF AS 3959-2018, CONSTRUCTION
- OF BUILDINGS IN BUSHFIRE-PRONE AREAS SET OUT IN THE BUILDING CODE OF AUSTRALIA ALSO APPLY.

#### **BUSHFIRE NOTES:**

BAL = 40

BAL - 40

PLANNING

**REF: OCTOBER 2022** AND CONSTRUCTED IN ACCORDANCE TO

PLEASE REFER TO BUSHFIRE REPORT BY ACCESS ENVIROMENTAL

#### AS 3959-2018

#### BASIX NOTES:

PLEASE REFER TO THE "SUMMARY OF BASIX COMMITMENTS" ON PAGE 2 FOR FURTHER INFORMATION. PLEASE REFER TO THE BASIX CERTIFICATE FOR EXACT DETAILS.

#### GENERAL PLAN SET NOTES:

CHECK ALL DIMENSIONS ON SITE. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT CONTRACTS, SPECIFICATIONS, REPORTS, DRAWINGS, LEGENDS, NATIONAL CONSTRUCTION CODE, AUS & NZ STANDARDS, ENGINEERING & COUNCIL APPROVALS

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Building Designers						START DATE.	19.12.22				
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9A lord street (PO Box 5667), Port Macq	uarie nsw 2444   Shop 17 Centrepoir	nt Arcade, Taree NSW 2430 T: 02 6583 4411			F: 02 6583 9820			WWW. COLLINSWCOLLINS.COM.AU			

# PLANNING FOR BUSHFIRE PROTECTION 2019

### THESE NOTES MUST BE READ AND UNDERSTOOD BY ALL INVOLVED IN THE PROJECT. THIS INCLUDES (but is not limited to): OWNER, BUILDER, SUB-CONTRACTORS, CONSULTANTS, RENOVATORS, OPERATORS, MAINTENORS, DEMOLISHERS.

### SECTION 7.5 (ADDITIONAL CONST. REQUIREMENTS)

#### 7.5 Additional Construction Requirements

To ensure the performance criteria for construction standards given in section 7.4 can be met. PBP adopts additional measures over and above AS 3959 and NASH Standard as follows

- construction measures for ember protection at BAL-12.5 and BAL-19 provided by AS 3959.
- construction measures for development in BAL-FZ; and
- requirements over and above the performance criteria contained within AS 1530.8.1 and AS 1530.8.2 apply regarding flaming.

7.5.1 Ember Protection Based on the findings from the 2009 Victorian Bush Fires Royal Commission, PBP aims to maintain the safety levels previously provided by AS 3959:1999 in relation to ember protection at lower Bush Fire Attack Levels.

- In particular, the areas addressed are in relation to
- sarking.subfloor screening.
- floors.
- verandas, decks, steps, ramps, and landings.
- timber support posts and beams; and .
- fascia's and bargeboards.

#### 7.5.2 NSW State Variations under G5.2(a)(i) and 3.10.5.0(c)(i) of the NCC

Certain provisions of AS 3959 are varied in NSW based on the findings of the Victorian Bush Fires Royal Commission and bush fire industry research.

The following variations to AS 3959 apply in NSW for the purposes of NSW G5.2(a)(i) of Volume One and NSW 3.10.5.0(c)(i) of Volume Two of the NCC.

- clause 3.10 of AS 3959 is deleted and any sarking used for BAL-12.5, BAL-19, BAL-29 or BAL-40 shall
- be non-combustible; or
- . comply with AS/NZS 4200.1, be installed on the outside of the frame, and have a flammability index of not more than 5 as determined by AS 1530.2; and
- clause 5.2 and 6.2 of AS 3959 is replaced by clause 7.2 of AS 3959, except that any wall enclosing the subfloor space need only comply with the wall requirements for the respective BAL and clause 5.7 and 6.7 of AS 3959 is replaced by clause 7.7 of AS 3959, except that any wall enclosing the subfloor space need only comply with the wall requirements for the respective BAL and
- fascia's and bargeboards, in BAL-40, shall comply with:
- clause 8.4.1(b) of AS 3959; or

clause 8.6.6 of AS 3959. 7.5.3 Construction in the Flame Zone

The flame zone is the area that has significant potential for sustained flame contact during a bush fire. The flame zone is determined by the calculated distance at which the radiant heat of the design fire exceeds 40kW/m<sup>2</sup>.

#### The NCC references AS 3959 and the NASH Standard. The NSW variation to the NCC excludes

both AS 3959 and the NASH Standard as a Deemed to Satisfy solution for buildings that are required to be constructed to BAL-FZ as defined in AS 3959.

Although Chapter 9 of AS 3959 and the NASH Standard has not been adopted, they should still be used as a basis for a performance-based solution demonstrating compliance with the performance requirements of the NCC and PBP for construction in the flame zone All flame zone developments should be sited and designed to minimise the risk of bush fire attack. Buildings should be designed and sited in accordance with appropriate siting and design principles to ensure the safest protection from bush fire impacts.

#### 7.5.4 Flaming

- Materials that allow flaming can be problematic and are not supported by the NSW RFS for the following reasons
- flaming materials increase the exposure of other elements of construction and the adjoining structure to name contact, and a push me materials will potentially increase the exposure of occupants of the building to radiant heat, direct flame contact, smoke after a bush fire front has passed.
   flaming materials will potentially increase the exposure of occupants of the building to radiant heat, direct flame contact, smoke after a bush fire front has passed. This increase in exposure can contribute to the risk of loss of life and compromise the ability of residents to defend their property and egress from the building once the bush five front has passed.

In addition, it can reduce the ability of occupants to make safe and effective decisions about their safety.

Where there is potential for materials of construction to ignite because of bush fire attack, the proposed building solution generally fails the construction perform ice criteria for residential infill dev

For development which may be subject to flame contact (BAL-40 and BAL-FZ), systems tested

in accordance with AS 1530.8.1 and AS 1530.8.2 respectively will be considered, except that there is to be no flaming of the specimen except for:

- window frames that have passed the criteria of AS 1530.8.1 and AS 1530.8.2, may be approved provided their flaming is not considered to compromise the safety of other elements of the building; and
- use of other minor elements which allow flaming may be considered provided they do not compromise the integrity of the fire safety of the building (examples include address numbers, house names, decorative artwork, etc).

Flaming of other more significant elements of the building (such as aesthetic wall classed ing) is considered to pose an unacceptable risk and will not be supported, permanently fixed in the closed position.

#### SECTION 7.6 (FENCES & GATES)

#### 7.6 Fences and gates

Fences and gates in bush fire prone areas may play a significant role in the vulnerability of structures during bush fires/In this regard, all fences in bush fire prone areas should be made of either hardwood or non combustible material. However, in circumstances where the fence is within 6m of a building or in areas of BAL-29 of greater, they should be made of non-combustible material only

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Building Designers	Designer prior to commencement of work.	CLIENT: WHITE			DWG No:	D5489				
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### AS3959-2018 – SECTION 3 - GENERAL CONSTRUCTION REQUIREMENTS THESE NOTES MUST BE READ AND UNDERSTOOD BY ALL INVOLVED IN THE PROJECT. THIS INCLUDES (but is not limited to): OWNER, BUILDER, SUB-CONTRACTORS, CONSULTANTS, RENOVATORS, OPERATORS, MAINTENORS, DEMOLISHERS.

#### 3.1 GENERAL

This Section specifies general requirements for the construction of buildings for all Bushfire Attack Levels (BALs). The BALs and the corresponding Sections for specific construction requirements are listed in Table 3.1.

TABLE 3.1

### BUSHFIRE ATTACK LEVELS AND CORRESPONDING SECTIONS FOR SPECIFIC CONSTRUCTION REQUIREMENTS

Bushfire Attack Level (BAL)	Classified vegetation within 100 m of the site and heat flux exposure thresholds	Description of predicted bushfire attack and levels of exposure	Construction Section	
BAL-LOW	See Clause 2.2.3.2	There is insufficient risk to warrant specific construction requirements	4	
BAL-12.5	≤12.5 kW/m <sup>2</sup>	Ember attack	3 and 5	
BAL-19	>12.5 kW/m <sup>2</sup> ≤19 kW/m <sup>2</sup>	Increasing levels of ember attack and burning debris ignited by windborne embers together with increasing heat flux	3 and 6	
BAL—29	>19 kW/m <sup>2</sup> ≤29 kW/m <sup>2</sup>	Increasing levels of ember attack and burning debris ignited by windborne embers together with increasing heat flux	3 and 7	
BAL—40	>29 kW/m² ≤40 kW/m²	Increasing levels of ember attack and burning debris ignited by windborne embers together with increasing heat flux with the increased likelihood of direct contact with flames	3 and 8	
BAL-FZ	>40 kW/m <sup>2</sup>	Direct exposure to flames from fire front in addition to heat flux and ember attack	3 and 9	

#### 3.2 CONSTRUCTION REQUIREMENTS FOR SPECIFIC STRUCTURES 3.2.1 Attached structures and structures sharing a common roof space

Where any part of a garage, carport, veranda, cabana, studio, storage area or similar roofed structure is attached to, or shares a common roof space with, a building required to conform with this Standard, the entire garage, carport, veranda or similar roofed structure shall conform with the construction requirements of this Standard, as applicable to the subject building.

Alternatively, the structure shall be separated from the subject building by a wall that extends to the underside of a non-combustible roof covering, and that conforms with one of the following:

(a) The wall shall have an FRL of not less than 60/60/60 for loadbearing walls and -/60/60 for non-loadbearing walls when tested from the attached structure side and shall have openings protected as follows (i) Doorways—by self-closing fire doors with an FRL of -/60/30, conforming with AS 1905.1 and tested in accordance with AS 1530.4. (ii) Windows—by fire windows with an FRL of –/60/– when tested in accordance with AS 1530.4 and permanently fixed in the closed position. (iii) Other openings—by construction with an FRL of not less than -/60/when tested in accordance with AS 1530.4.

NOTE: Control and construction joints, subfloor vents, weepholes and penetrations for pipes and conduits need not conform with Item (iii)

(b) The wall shall be of masonry, earth or masonry-veneer construction with the masonry leaf of not less than 90 mm in thickness and shall have openings protected as follows:

(i) Doorways—by self-closing fire doors with an FRL of –/60/30, conforming with AS 1905.1 and tested in accordance with AS 1530.4 (ii) Windows-by fire windows with an FRL of -/60/- when tested in cordance with AS 1530.4 and permanently fixed in the closed position. (iii) Other openings-by construction with an FRL of not less than -/60/when tested in accordance with AS 1530.4.

NOTE: Control and construction joints, subfloor vents, weepholes and penetrations for pipes and conduits need not conform with Item (iii). 3.2.2 Garages and carports beneath the subject building

Where a garage or carport is beneath a building required to comply with this Standard, it shall conform with the construction requirements of

this Standard, as applicable to the subject building. Alternatively, any construction separating the garage or carport (including walls and flooring systems) from the remainder of the building shall conform with one of the following:

(a) The separating construction shall have an FRL of not less than 60/60/60 for loadbearing construction and –/60/60 for non-loadbearing construction when tested from the garage or carport side and shall have openings protected in accordance with the following:

(i) Doorways—by self-closing fire doors with an FRL of -/60/30, conforming with AS 1905.1 and tested in accordance with AS 1530.4. (ii) Windows—by fire windows with an FRL of -/60/- when tested in accordance with AS 1530.4 and permanently fixed in the closed position. (iii) Other openings-by construction with an FRL of not less than -/60/when tested in accordance with AS 1530.4.

NOTE: Control and construction joints, subfloor vents, weepholes and penetrations for pipes and conduits need not conform with Item (iii).

(b) Where part or all of the separating construction is a wall, the wall need not conform with Item (a) above, provided the wall is of masonry, earth or masonry-veneer construction with the masonry leaf of not less than 90 mm in thickness and the wall has openings protected in accordance with the following:

(i) *Doorways*—by self-closing fire doors with an FRL of -/60/30 conforming with AS 1905.1 and tested in accordance with AS 1530.4. (ii) Windows—by fire windows with an FRL of -/60/- when tested in accordance with AS 1530.4 and permanently fixed in the closed position. (iii) Other openings—by construction with an FRL not less than -/60/when tested in accordance with AS 1530.4.

NOTE: Control and construction joints, subfloor vents, weepholes and penetrations for pipes and conduits need not conform with Item (iii) 3.2.3 Adjacent structures on the subject allotment

#### Where any garage, carport, or similar roofed structure on the subject

allotment is not attached to a building required to conform with this Standard, that structure shall conform with the construction requirements of this Standard.

Alternatively, the adjacent structure shall be separated from the subject building by one of the following:

(a) A distance of not less than 6 m from the building required to conform with this Standard. This distance is measured as any of the horizontal straight lines from the adjacent structure to the subject building.

(b) A wall of the building required to conform that extends to the

(iii) Other openings—by construction with an FRL of not less than -/60/when tested in accordance with AS 1530.4. NOTE: Control and construction joints, subfloor vents, weepholes and tions for pipes and conduits need not conform with Item (iii)

#### 3.3 EXTERNAL MOULDINGS Unless otherwise required in Clause 3.6.1 and Sections 5 to 9,

combustible external mouldings, jointing strips, trims and sealants may be used for decorative purposes or to cover joints between sheeting material

#### 3.4 HIGHER LEVELS OF CONSTRUCTION

The construction requirements specified for a particular BAL shall be acceptable for a lower level. NOTE: For example, if the site has been assessed at BAL-12.5. BAL-12.5 construction is required; however, any element or combination of elements contained in BAL-19, BAL-29, BAL-40 and BAI — FZ levels of construction may be used to satisfy this Standard

3.5 REDUCTION IN CONSTRUCTION REQUIREMENTS DUE TO SHIELDING

Where an elevation is not exposed to the source of bushfire attack, then the construction requirements for that elevation can reduce to the next lower BAL.

However, it shall not

reduce to below BAL-12.5. An elevation is deemed to be not exposed to the source of bushfire attack if all the

straight lines between that elevation and the source of bushfire attack are obstructed by

another part of the same building (see Figure 3.1). However, it shall not reduce to below BAL 12.5.

The shielding of an elevation shall apply to all the elements of the wall, including openings

but shall not apply to subfloors or roofs.



on of fire attacl Walls not exposed to fire attack

FIGURE 3.1 EXAMPLES OF WALLS SUBJECT TO SHIELDING

#### 3.6 VENTS, WEEPHOLES, GAPS AND SCREENING MATERIALS 3.6.1 Vents, weepholes, joints and the like

All gaps including vents, weepholes and the like shall be screened, except for weepholes to

the sills of windows and doors All joints shall be suitably backed with a breathable sarking or mesh

#### except as permitted by

Clause 3.3. The maximum allowable aperture size of any mesh or perforated material used as a screen

#### shall be 2 mm.

C3.6.1 Weepholes in sills of windows and doors and those gaps between doors and door jambs, heads or sills (thresholds) are exempt from screening because they do not provide a direct passage for embers to the interior of the building or building cavity.

#### 3.6.2 Gaps to door and window openings

Where screens are fitted to door openings for ember protection, they shall have a maximum aperture of 2.0 mm and be tight fitting to the frame in the closed

position.

Gaps between doors including jambs, heads or sills (thresholds) shall be nrotected using

draught seals and excluders or the like (see Figure 3.2). Windows conformant with AS 2047 will satisfy the requirements for gap

protection. Screens fitted to window openings shall have a maximum aperture of

2.0 mm and these

shall be tight fitting to the frames

**C3.6.2** There are no requirements to screen the openable parts of doors for ember protection at the lower BALs, however in many circumstances it may be

desirable to screen the opening for insect protection. In such circumstances, where the insect screen is fitted internally, such screens





(c) Either opening in or ou

FIGURE 3.2 GAPS BETWEEN DOORS AND THE DOOR JAMBS, HEADS OR SILLS (THRESHOLDS)

#### **3.7 BUSHFIRE SHUTTERS**

(a) protect the entire window assembly including framing, glazing, sash (b) protect the entire door assembly including framing, glazing, sill and hardware (e) consist of materials specified in Clauses 5.5.1, 6.5.1, 7.5.1, 8.5.1 and 9.5.1 for the relevant BAL; (d) be fixed to the building and be non-removable. (e) be capable of being closed manually from either inside or outside of motorised shutter systems, where they are not reliant on mains power to close NOTE: If power assisted shutter systems are used then that system is powered with continuous back-up energy such as a battery system (f) when in the closed position, have no gap greater than 2 mm between the shutter and the wall, frame or sill; and (g) where perforated, have uniformly distributed perforations with maximum aperture

of 2 mm and a perforated area no greater than 20% of the shutter. If bushfire shutters are fitted to all external doors then at least one of those shutters shall be

#### operable from the inside to facilitate safe egress from the building. 3.8 TESTING OF MATERIALS. ELEMENTS OF CONSTRUCTION AND SYSTEMS TO THE AS 1530.8 SERIES

Unless otherwise specified, elements of construction and systems satisfy this Standard when tested in accordance with the AS 1530.8 series for the relevant BAL level

and Crib Class in Table 3.2.

Elements of construction or systems tested in accordance with AS 1530.8.1-2007 with Crib Class A prior to the issue of this Standard are acceptable

#### TABLE 3.2 TESTING OF MATERIALS, ELEMENTS OF CONSTRUCTION AND SYSTEMS

Acceptable test criteria	Relevant allowable BAL level	Crib class
AS 1530.8.1	BAL-12.5 to BAL-40	AA
AS 1530.8.2	BAL—FZ	Not applicable

Where any element of construction or system satisfies the test criteria in the AS 1530.8

series without screening for ember protection, the requirements of this Standard for

screening of openable parts of windows shall still apply. Where a window protected with a shutter satisfies the test criteria of

the AS 1530.8 series, the additional requirements of this Standard for screening of openable parts of windows do

not apply. NOTE: The ember protection function of tested shutter has been verified

#### by the testing 3.9 GLAZING

Glazing require ments shall be in accordance with Sections 5 to 9 of this Standard.

NOTES: 1 Where double-glazed assemblies are used, the glazing requirements

provided in this Standard . apply to the external face of the glazed assembly only.

2 Refer to AS 1288 for an explanation of the terminologies used to describe various types of

#### glass in this Standard

3.10 SARKING

underside of a non-combustible roof covering and has an FRL of not less than 60/60/60 for loadbearing walls and –/60/60 for non-loadbearing walls when tested from the outside. Any openings in the wall shall be protected in accordance with the following:

(i) Doorways-by self-closing fire doors with an FRL of -/60/30, conforming with AS 1905.1 and tested in accordance with AS 1530.4. (ii) Windows-by fire windows with an FRL of -/60/- when tested in accordance with AS 1530.4 and permanently fixed in the closed position. (iii) Other openings—by construction with an FRL of not less than -/60/when tested in accordance with AS 1530.4

NOTE: Control and construction joints, subfloor vents, weepholes and penetrations for pipes and conduits need not conform with Item (iii).

(c) A wall of the building required to conform that extends to the underside of a non-combustible roof covering and is of masonry, earth or masonry-veneer construction with the masonry leaf of not less than 90 mm in thickness. Any openings in the wall shall be protected in accordance with the following:

(i) Doorways—by self-closing fire doors with an FRL of -/60/30, conforming with AS 1905.1 and tested in accordance with AS 1530.4 (ii) Windows—by fire windows with an FRL of -/60/- when tested in accordance with AS 1530.4 and permanently fixed in the closed position.

dered as a door furnishing and the use of non-metall mesh permissible, provided the screening system is fitted internally and wholly protected by the closed door.

Where sarking is required in Sections 5 to 9, the flammability index shal

not exceed five

when tested to AS 1530.2.

**C3.10** Sarking material is a principal component used to control condensation and is used for energy efficiency purposes under the NCC. It may be vapour permeable or impermeable dependant on its location within the structure. Seek independent advice regarding selection of sarking prior to installation.

#### 3.11 TIMBER LOG WALLS

Where the thickness of a timber log wall is specified in Sections 5, 6 and 7, two criteria are nominated, as follows

(a) The nominal overall thickness is the overall thickness of the wall. (b) The minimum thickness is the thickness of the wall at the interface of two logs in the wall.

For most log profiles, the thickness of the log at the interface with an adjacent log is less than the overall thickness of the wall.

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### AS3959-2018 – CONSTRUCTION FOR BUILDINGS IN BUSHFIRE PRONE AREAS – SECTION 8 (BAL 40) THESE NOTES MUST BE READ AND UNDERSTOOD BY ALL INVOLVED IN THE PROJECT. THIS INCLUDES (but is not limited to): OWNER, BUILDER, SUB-CONTRACTORS, CONSULTANTS, RENOVATORS, OPERATORS, MAINTENORS, DEMOLISHERS.

#### 8.1 GENERAL

A building assessed in Section 2 as being BAL—40 shall conform with Section 3 and Clauses 8.2 to 8.8.

Any element of construction or system that satisfies the test criteria of AS 1530.8.1 may be used in lieu of the applicable requirements of

Clauses 8.2 to 8.8 (see Clause 3.8). NOTE: BAL-40 is primarily concerned with protection from ember

attack, increased likelihood of flame contact and radiant heat greater than 29 kW/m2 and up to and

including 40 kW/m2 8.2 SUB-FLOOR SUPPORTS

This Standard does not provide construction requirements for subfloor

supports where the

subfloor space is enclosed with a wall that conforms with Clause 8.4 except that sarking is not required where specified in Clause 8.4.1(b). Where the subfloor space is unenclosed, the support posts, columns, stumps, piers and poles

shall be-

(a) of non-combustible material; or (b) a system conforming with AS 1530.8.1: or (c) a combination of Items (a) and (b)

NOTE: This requirement applies to the subject building only and not to verandas, decks, steps,

ramps and landings (see Clause 8.7).

C8.2 Combustible materials stored in the subfloor space may be ignited by embers and impact the building.

#### 8.3 FLOORS 8.3.1 General

This Standard does not provide construction requirements for concrete

slabs on the ground.

8.3.2 Elevated floors 8.3.2.1 Enclosed subfloor space

This Standard does not provide construction requirements for elevated floors, including bearers, joists and flooring, where the subfloor space is enclosed with a wall that conforms with Clause 8.4, except that sarking

is not required where specified in Clause 8.4.1(b) 8.3.2.2 Unenclosed subfloor space Where the subfloor space is unenclosed, the bearers, joists and flooring,

shall-(a) be non-combustible; or

(b) have the underside of the combustible elements of the floor system

protected with a non-combustible material (e.g., fibre-cement sheet or metal sheet); or (c) be a system conforming with AS 1530.8.1; or

#### (d) be a combination of any of Items (a), (b) or (c). 8.4 WALLS

#### 8.4.1 General

The exposed components of external walls shall be as follows (a) Non-combustible material including the following provided the minimum thickness is 90mm:

(i) Full masonry or masonry veneer walls with an outer leaf of clay, concrete, calcium silicate or natural stone.

(ii) Precast or in situ walls of concrete or aerated concrete (iii) Earth wall including mud brick

(b) Cladding that is fixed externally to a timber-framed or a steel-framed wall that is sarked on the outside of the frame and is-

fibre-cement a minimum of 9 mm in thickness; or (ii) steel sheeting; or (ii) a combination of Items (i) and (ii).
(c) A system conforming with AS 1530.8.1.

(d) A combination of any of Items (a), (b) or (c).

8.4.2 Joints

All joints in the external surface material of walls shall be covered, sealed, overlapped, backed or butt-jointed.

8.4.3 Vents and weepholes Except for exclusions provided in Clause 3.6, vents and weepholes in external walls shall be screened with a mesh made of corrosion-resistant

steel, bronze or aluminiun 8.5 EXTERNAL GLAZED ELEMENTS, ASSEMBLIES AND DOORS

8.5.1 Bushfire shutters Where fitted, bushfire shutters shall conform with Clause 3.7 and be

made from non-combustible material.

8.5.2 Screens for windows and doors

Where fitted, screens for windows and doors shall have a mesh or perforated sheet made of

corrosion-resistant steel or bronze The frame supporting the mesh or perforated sheet shall be metal. Screen assemblies shall be attached using metal fixings.

8.5.3 Windows and sidelights

Window assemblies shall

(a) be completely protected by a bushfire shutter that conforms with Clause 3.7 and Clause 8.5.1.

(b) conform with the following-

(i) Frame material - Window frames and window joinery shall be metal. (ii) Hardware - Externally fitted hardware that supports the sash in its functions of opening and closing shall be metal.

Trims or other components may use material other than metal. (iii) Glazing - Glazing shall be toughened glass a minimum of 6mm thick or glass blocks with no restriction on glazing methods.

NOTE: Where double-glazed assemblies are used, the above requirements apply to the external face of the glazed assembly only (iv) Where used, seals and weather strips to stiles, head and sills or thresholds shall be manufactured from materials having a flammability index not exceeding 5 or from silicone.

(v) Screens Both the openable and fixed portions of the window shall be screened externally with screens that conform with Clause 3.6 and Clause 8.5.2.

(iv) Glazing - Where doors incorporate glazing, the glazing shall be toughened glass a minimum of 6mm in thickness. (v) Seals and weather strips Weather strips, draught excluders, or draught seals shall be installed. Seals to stiles head and sills or thresholds shall be manufactured from materials having a flammability index not exceeding 5 (vi) Screens There is no requirement to screen the openable part of the door at this BAL level. Where glazing is incorporated in the door, it shall be screened externally with screens that conform with Clause 8.5.2. (vii) Doors shall be tight-fitting to the door frame and to an abutting door, if applicable 8.5.5 Doors—Sliding doors Sliding doors shall be completely protected by a bushfire shutter that conforms with Clause 3.7 and Clause 8.5.1 (b) conform with the following: (i) Frame material - The material for door frames, including fully framed glazed doors, shall be made from metal. (ii) Hardware - Externally fitted hardware that supports the panel in its

functions of opening and closing shall be metal. Trims or other components may use materials other than metal. (iii) Glazing - Where doors incorporate glazing, the glazing shall be toughened glass a minimum of 6mm in thickness.

(iv) Seals and weather strips Seals to stiles, head and sills or thresholds shall be manufactured from materials with a flammability index not exceeding 5

(v) Screens Both the fixed and openable portions of doors shall be screened externally with screens that conform with Clause 3.6 and Clause 8.5.2

(vi) Sliding doors shall be tight-fitting in the frame 8.5.6 Doors-Vehicle access doors (garage doors)

The following applies to vehicle access doors:

(a) Vehicle access doors shall be non-combustible (b) All vehicle access doors shall be protected with suitable weather strips, draught excluders, draught seals, or brushes. Door assemblies fitted with guide tracks do not need edge gap protection NOTES:

1 Refer to AS/NZS 4505 for door types

2 Gaps of door edges or building elements should be protected as per Section 3.

**C8.5.6(b)** These guide tracks do not provide a direct passage for embers into the byilding. (c) Weather strips, draught excluders, draught seals or brushes to

protect edge gaps or thresholds shall be manufactured from materials having a flammability index not exceeding 5.

(d) Vehicle access doors shall not include ventilation slots. C8:5:6 Components other than metal may be used provided they are shielded by the metal components of the door assemb 8.6 ROOFS (INCLUDING PENETRATIONS, EAVES, FASCIAS AND

#### GABLES, AND GUTTERS AND DOWNPIPES) 8.6.1 General The following applies to all types of roofs and roofing systems

(a) Roof tiles, roof sheets and roof-covering accessories shall be noncombustible

(b) The roof/wall and roof/roof junction shall be sealed either using fascia and eaves linings or by sealing between the top of the wall and the underside of the roof and between the rafters at the line of the wall They shall also be protected in accordance with Clause 3.6. (c) Roof ventilation openings, such as gable and roof vents, shall be fitted with ember guards made of non-combustible material or a mesh or perforated sheet conforming with Clause 3.6 and made of corrosion

resistant steel or bronze. (d) Roof-mounted evaporative coolers are not permitted in BAL-40. 8.6.2 Tiled roofs

Tiled roofs shall be fully sarked. The sarking shall-(a) be located on top of the roof framing, except that the roof battens

nay be fixed above the sarking: (b) cover the entire roof area including ridges and hips; and

(c) extend into gutters and valleys 8.6.3 Sheet roofs

#### Sheet roofs shall-

(a) be fully sarked in accordance with Clause 8.6.2, except that foilbacked insulation blankets may be installed over the battens: or (b) have any gaps sealed at the fascia or wall line hips and ridges by-(i) a mesh or perforated sheet that conforms with Clause 3.6 and that is made of corrosion-resistant steel or bronze; or

(ii) mineral wool; or (iii) other non-combustible material: or

(iv) a combination of any of Items (i), (ii) or (iii).

C8.6.3 Sarking is used as a secondary form of ember protection for the roof space to account for minor gaps that may develop in sheet roofing 8.6.4 Veranda, carport and awning roof

The following applies to veranda, carport, and awning roofs: (a) A veranda, carport or awning roof forming part of the main roof space [see Figure D1(a), Appendix D] shall meet all the requirements for the main roof, as specified in Clauses 8.6.1 to 8.6.6. (b) A veranda, carport or awning roof separated from the main roof

space by an external wall [see Figures D1(b) and D1(c), Appendix D] conforming with Clause 8.4 shall have a non-combustible roof covering and the complete support structure shall be

(i) of non-combustible material; or

(ii) timber rafters lined on the underside with fibre-cement sheeting a minimum of 6mm in thickness, or with material conforming with A 1530.8.1: or

(iii) a system conforming with AS 1530.8.1; or

(iv) a combination of any of Items (i), (ii) or (iii).

### 8.6.5 Roof penetrations

The following applies to roof penetrations: (a) Roof penetrations, including roof lights, roof ventilators, aerials, vent pipes and supports for solar collectors or the like, shall be sealed. The

8.6.6 Eaves linings, fascia's and gables

The following applies to eaves linings, fascia's, and gables: (a) Gables shall conform with Clause 8.4. (b) Fascia's and bargeboards shall conform with AS 1530.8.1 (c) Eaves linings shall be-(i) fibre-cement sheet, a minimum of 6 mm in thickness; or (ii) calcium silicate sheet, a minimum of 6 mm in thickness; or (iii) a combination of Items (i) and (ii) above (d) Eaves penetrations shall be protected the same as for roof penetrations as specified in Clause 8.6.5. (e) Eaves ventilation openings shall be fitted with ember guards in accordance with Clause 3.6 made of corrosion-resistant steel or bronze (f) Joints in eaves linings, fascias and gables may be sealed with plastic joining strips or timber storm moulds 8.6.7 Gutters and downpipes This Standard does not provide requirements for downpipes

If installed, gutter and valley leaf guards shall be non-combustible Gutters shall be non-combustible Box gutters shall be non-combustible and flashed at the junction with

the roof with non-combustible materials

#### 8.7 VERANDAS, DECKS, STEPS AND LANDINGS

8.7.1 General

Decking shall not be spaced.

There is no requirement to enclose the subfloor spaces of verandas, decks, steps, ramps or landings 8.7.2 Enclosed subfloor spaces of verandas, decks, steps, ramps and

### landings

8.7.2.1 Materials to enclose a subfloor space The subfloor spaces of verandas, decks, steps, ramps and landings are deemed to be

'enclosed' when

8.7.2.2 Supports

8,7.2.3 Framing

joists).

landings

shall be-

and landings 8.7.3.1 Supports

8.7.3.2 Framing

shall be-

shall be-

(a) the material used to enclose the subfloor space conforms with Clause 8.4, except that sarking is not required where specified in Clause 8.4.1(b); and

(b) all openings are protected in accordance with Clause 3.6 and made of corrosion resistant steel or bronze.

This Standard does not provide construction requirements for support

framing of verandas, pergolas, decks, ramps or landings (i.e. bearers and

8.7.2.4 Decking, stair treads and the trafficable surfaces of ramps and

Decking, stair treads and the trafficable surfaces of ramps and landings

8.7.3 Unenclosed subfloor spaces of verandas, decks, steps, ramps

Support posts, columns, stumps, stringers, piers and poles shall be

Eraming of verandas, decks, ramps or landings (i.e., bearers and jois (s)

8.7.3.3 Decking, stair treads and the trafficable surfaces of ramps and

Decking, stair treads and the trafficable surfaces of ramps and landings

Those parts of the handrails and balustrades less than 125 mm from any

glazing or any combustible wall shall be of non-combustible material

/eranda posts shall be made from non-combustible material

Above-ground, exposed water supply pipes shall be metal

Those parts of the handrails and balustrades that are 125 mm or more

External gas pipes and fittings above ground shall be of steel or copper

a minimum wall thickness in accordance with gas regulations or 0.9 mm

greater. The metal pipe shall extend a minimum of 400 mm within the

NOTE: Refer to State and Territory gas regulations, AS/NZS 5601.1 and

**C8** 8 Concern is raised for the protection of bottled gas installations

Location, shielding and venting of the gas bottles needs to be

This Standard does not provide construction requirements for the

posts, columns, stumps, stringers, piers and poles.

(a) of non-combustible material; or

(a) of non-combustible material; or

(c) a combination of Items (a) and (b).

(a) of non-combustible material; or

(a) of non-combustible material; or

(c) a combination of Items (a) and (b).

from the building have no requirements

8.8 WATER AND GAS SUPPLY PIPES

8.7.5 Veranda posts

construction having

building and 100mm

whichever is the

below ground.

AS/NZS 4645.1.

considered.

(b) a system conforming with AS 1530.8.1, or (c) a combination of Items (a) and (b).

(b) a system conforming with AS 1530.8.1; or

(b) a system conforming with AS 1530.8.1; or (c) a combination of Items (a) and (b).

(b) a system conforming with AS 1530.8.1; or

8.7.4 Balustrades, handrails of other barriers

C8.5.3 Componer ts other than metal may be used provided they are shielded by the metal components of the window/door frame

#### 8.5.4 Doors-Side-hung external doors (including French doors, panel fold and

#### bi-fold doors)

Side-hung external doors, including French doors, panel fold and bi-fold doors, shall-

(a) be completely protected by bushfire shutters that conform with Clause 3.7 and Clause 8.5.1

(b) conform with the following:

(i) Door panel material Materials shall be-

(A) non-combustible; or

(B) solid timber having a minimum thickness of 35 mm for the first 400mm above the threshold and protected on the outside by a metalframed screen door with a mesh or perforated sheet conforming with Clause 3.6 and made of corrosion-resistant steel or bronze; or (C) for fully framed glazed door papels the framing shall be metal (ii) Door frame material - The door frame material shall be metal. (iii) Hardware - Externally fitted hardware that supports the panel in its functions of opening and closing shall be metal. Trims or other components may use materials other than metal

naterial used to seal the penetration shall be non-co (b) Glazed assemblies for roof lights and skylights shall have an FRL of -/30/-

(c) External single plane glazed elements of roof lights and skylights, where the nitch of the glazed element is 18 degrees or less to the horizontal, shall conform with Clause 3.6 and be made of corrosion resistant steel or bronze.

(d) A pipe or conduit that penetrates the roof covering shall be noncombustible

NOTE: AS/NZS 5601 contains requirements for gas appliance flue systems and cowls. Advice

can be obtained from manufacturers and State and Territory gas

technical regulators.

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Building Designers	Discrepancies to be referred to the consultant Designer prior to commencement of work.	CLIENT: WHITE			DWG No:	D5489					
89A lord street (PO Box 5667), Port Macquarie nsw 2444   Shop 17 Centrepoint Arcade, Taree NSW 2430			T: 02 6583	3 4411	F: 02 6583 9820 WWW. COLI			WWW. COLLINSWO	NSWCOLLINS.COM.AU		

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#### REVISED DECEMBER 2019

#### BUILDING SPECIFICATIONS FOR CLASS 1 AND 10 BUILDINGS

All works to be completed in accordance with the current version of the National Construction Code Series, including Building Code of Australia (BCA), Volume 2 and the Plumbing Code of Australia (PCA), Volume 3 as applicable.

All Australian Standards listed are the versions that have been adopted by the relevant version of the National Construction Code Series at the time of Construction Certificate or Complying Development Certificate Application

#### STRUCTURAL PROVISIONS

Structural Design Manuals - is satisfied by complying with:

a) 3.0.3, 3.0.4, 3.0.5 of the BCA; or b) the relevant provisions of other Parts of Section 3 of the Housing Provisions of the BCA relating to structural elements; or

c) any combination thereof.

3.0.5 - Structural Software - Must comply with the Australian Building Codes Board (ABCB) Protocol for Structural Software and Part 3.4.0.2 of the BCA.

#### SITE PREPARATION

Earthworks - Earthworks are to be undertaken in accordance with Part 3.1.1 of the BCA.

Earth Retaining structures (ie. retaining walls & batter) to be in accordance with AS4678.

Drainage - Stormwater drainage is to be undertaken in accordance with AS/NZS 3500.3, or, the Acceptable Construction Practice as detailed in Part 3.1.3 of the BCA.

Termite Risk Management - Where a primary building element is considered susceptible to termite attack the building shall be protected in accordance with the following:

a) AS 3600.1, and

b) A durable notice is permanently fixed to the building in a prominent location, such as in a meter box or the like, including the details listed in Part 3.1.4.4 of the BCA.

c) The Acceptable Construction Practice as detailed in accordance with Part 3.1.4 of the BCA

#### FOOTINGS AND SLABS

The footing or slab is to be constructed in accordance with AS 2870, except that for the purposes of Clause 5.3.3.1 of AS 2870, a dampproofing membrane is required to be provided, or, the Acceptable Construction Practice detailed in Part 3.2 of the BCA Piled footings are to be designed in accordance with AS 2159.

#### MASONRY

Unreinforced Masonry - to be designed and constructed in accordance with:

#### a) AS 3700; or

b) AS 4773 Parts 1 and 2 Reinforced Masonry - to be designed and constructed in accordance with: a) AS 3700; or

b) AS 4773 parts 1 and 2

Masonry Accessories - to be constructed and installed in accordance with;

### a) AS 3700: or

b) AS 4773 Parts 1 and 2 Weatherproofing of Masonry

This Part applies to an external wall (including the junction between the wall and any window or door) of a Class 1 Building. This Part does not apply to any Class 10 building except where its construction contributes to the weatherproofing of the Class 1 building

The weatherproofing of masonry is to be carried out in accordance with:

a) AS 3700; except as provided for by Part 3.3.2.0 (a), or . b) AS 4773 Part2 1 and 2 FRAMING

Sub-Floor Ventilation - Is to comply with the Acceptable Construction Practice of Part 3.4.1 of the BCA. Steel Framing - is to be designed and constructed in accordance with

the Acceptable Construction Practice of Part 3.4.2 of the BCA, or, one of the following manuals

a) Steel structures: AS 4100.

b) Cold-formed steel structures: AS/NZS4600 c) Residential and low-rise steel framing: NASH Standard.

Timber Framing - is to be designed and constructed in accordance with the following, as appropriate:

a) AS 1684.2

b) AS 1684.4.

Structural Steel Members - is to be designed and constructed in accordance with the Acceptable Construction Practice of Part 3.4.4 of the BCA, or, one of the following manuals: a) Steel Structures: AS 4100.

#### b) Cold-formed steel structures: AS/NZS 4600. ROOF AND WALL CLADDING

Roof Cladding – is to comply with the Acceptable Construction Practice of Part 3.5.1 of the BCA, or, one of the following:

a) Roofing tiles: Part 3.5.2 BCA - AS2050. b) Metal Roof Cladding: Part 3.5.1 BCA - AS1562.1.

c) Plastic sheet roofing: AS/NZS 4256 Parts 1, 2, 3 and 5; and AS/NZS 1562.3.

Gutters and Downpipes – are to be designed and constructed in accordance with the Acceptable Construction Practice of Part 3.5.3 of the BCA, or, AS/NZS 3500.3 – Stormwater drainage. Timber & Composite Wall Cladding - to be designed and constructed

in accordance with Acceptable Construction Practice of Part 3.5.4 of

#### FIRE SAFETY

Fire Hazard properties of materials to comply with Part 3.7.1 of the BCA. Fire Separation of external walls to comply with Part 3.7.2 of the BCA. Fire Separation of separating walls & floors to comply with Part 3.7.3 of the

BCA. Fire Separation of garage top dwelling to comply with Part NSW 1.1 of the

BCA. Smoke Alarms & Evacuation lighting to comply Part 3.7.5 of the BCA.

#### **BUSHFIRE AREAS**

Bushfire Areas - This section relates to:

a) A Class 1 building; or b) A Class 10a building or deck associated with a Class 1 building,

If it is constructed in accordance with the following:

c) AS 3959, except as amended by planning for bushfire protection and,

except for Section 9 Construction for Bushfire Attack Level FZ (BAL-FZ). Buildings subject to  $\mathsf{BAL}\text{-}\mathsf{FZ}$  must comply with specific conditions of

development consent for construction at this level; or

d) The requirements of (c) above as modified by the development consent following consultation with the NSW Rural Fire Service undersection 79BA of the Environmental Planning and Assessment Act 1979; or e) The requirements of (c) above as modified by the development consent

with a bushfire safety authority issued under section 100B of the Rural Fire Act for the purposes of integrated development.

Alpine Areas - to be constructed in accordance with the Acceptable Construction Practice of Part 3.10.4 of the BCA if located in an alpine area. HEALTH AND AMENITY

### Wet Areas and External Waterproofing - building elements in wet areas

within a building must: a) Be waterproof or water resistant in accordance with Table 3.8.1.1 of the BCA; and

b) Comply with AS 3740.

c) External areas to comply with AS4654.1 & AS4654.2 Room Heights - are to be constructed in accordance with the Acceptable

Construction Practice of Part 3.8.2 of the BCA. Facilities – are to be constructed in accordance with Acceptable Practice of Part 3.8.3 of the BCA. Light - is to be provided in accordance with the Acceptable Construction Practice of Part 3.8.4 of the BCA. Ventilation - is to be provided in accordance with the Acceptable Construction Practice of Part 3.8.5 of the BCA Sound Insulation - (only applies to a separating wall between two or more

class 1 buildings) is to be provided in accordance with the Acceptable Construction Practice of Part 3.8.6 of the BCA. Condensation Management to be provided in accordance with ACP Part

3.8.7 BCA

#### SAFE MOVEMENT AND ACCESS

Stair Construction - to be constructed and installed in accordance with the Acceptable Construction Practice of Part 3 9 1 of the BCA Barriers and Handrails - to be constructed and installed in accordance with the Acceptable Construction Practice of Part 3.9.2 of the BCA Protection of openable windows to Part 3.9.2 of the BCA ANCILLARY PROVISIONS & ADDITIONAL CONSTRUCTION

#### REQUIREMENTS

3.10.1 - Swimming Pools

Swimming Pool Access - to be designed and installed in accordance with the Swimming Pools Act 1992, Swimming Pool Regulation 2018 and AS

1926 Parts 1 and 2. Swimming Pool Water recirculation Systems - is to be designed and

constructed in accordance with AS1926.3. High Wind Areas – Applies to a region that is subject to design wind speeds more than N3 or C1 (see table 1.1,1 of the BCA). To be constructed in accordance with one or more of the relevant manuals of Part 3.10.1 of the

BCA 3.10.2 - Earthquake Areas subject to "seismic activity" to be constructed in

accordance with Part 3.0 BCA. 3.10.3 - Flood Hazard Areas - applies to areas on a site (weather or not mapped) encompassing the land lower than the flood hazard level (as

defined by the BCA) which has been determined by the appropriate authority (statutory authority), are to be constructed in accordance with the ABCB Standard for Construction of Buildings in Flood Hazard Area 3.10.4 - Construction "Alpine Areas" in accordance with Part 3.10.4 3.10.5 - Construction in Bushfire Prone Areas in accordance with Part

3.10.5 3.10.6 - Attachment of Decks & Balconies to external walls of buildings to be in accordance with the acceptable construction practice of Part 3.10.6

of the BCA, or alternatively be engineer designed in accordance with Part 3.0 of the BCA.

3.10.7 - Boilers, Pressure Vessels, Heating Applicances, Fire Places, Chimneys & Flues to be in accordance with Part 3.10.7 of the BCA. ENERGY EFFICIENCY

#### Energy Efficiency - to comply with the measures contained in the relevant BASIX certificate, and the requirements of NSW parts 3.12.1, 3.12.3 & 3.12.5 of the BCA

SEDIMENT CONTROL SPECIFICATIONS:



#### the BCA.

Autoclaved Aerated Concrete to AS5146.1 Metal wall cladding to be designed and constructed in accordance with AS 1562.1.

#### GLAZING

Glazing – to be designed and constructed in accordance with the Acceptable Construction Practice of Part 3.6.1 of the BCA, or, one of the following manuals as applicable under Part 3.6.0 BCA a) AS 2047 b) AS 1288.



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### 1. FALLS, SLIPS, TRIPS A) WORKING AT HEIGHTS DURING CONSTRUCTION

Wherever possible, components for this building should be prefabricated off-site or at ground level to minimise the risk of workers falling more than two metres. However, construction of this building will require workers to be working at heights where a fall in excess of two metres is possible and injury is likely to result from such a fall. The builder should provide a suitable barrier wherever a person is required to work in a situation where falling more than two metres is a possibility. DURING OPERATION OR MAINTENANCE

For houses or other low-rise buildings where scaffolding is appropriate: Cleaning and maintenance of windows, walls, roof or other components of this building will require persons to be situated where a fall from a height in excess of two metres is possible. Where this type of activity is required, scaffolding, ladders or trestles should be used in accordance with relevant codes of practice, regulations or legislation. For buildings where scaffold, ladders, trestles are not appropriate: Cleaning and maintenance of windows, walls, roof or other components of this building will require persons to be situated where a fall from a height in excess of two metres is possible. Where this type of activity is required, scaffolding, fall barriers or Personal Protective Equipment (PPE) should be used in accordance with relevant codes of practice, regulations or legislation

#### **B) SLIPPERY OR UNEVEN SURFACES**

FLOOR FINISHES Specified

If finishes have been specified by designer, these have been selected to minimise the risk of floors and paved areas becoming slippery when wet or when walked on with wet shoes/feet. Any changes to the specified finish should be made in consultation with the designer or, if this is not practical, surfaces with an equivalent or better slip resistance should be chosen

#### FLOOR FINISHES By Owner

If designer has not been involved in the selection of surface finishes, the owner is responsible for the selection of surface finishes in the pedestrian trafficable areas of this building. Surfaces should be selected in accordance with AS HB 197:1999 and AS/NZ 4586:2004

#### STEPS, LOOSE OBJECTS AND UNEVEN SURFACES

Due to design restrictions for this building, steps and/or ramps are included in the building which may be a hazard to workers carrying objects or otherwise occupied. Steps should be clearly marked with both visual and tactile warning during construction, maintenance, demolition and at all times when the building operates as a workplace Building owners and occupiers should monitor the pedestrian access ways and in particular access to areas where maintenance is routinely carried out to ensure that surfaces have not moved or cracked so that they become uneven and present a trip hazard. Spills, loose material, stray objects or any other matter that may cause a slip or trip hazard should be cleaned or removed from access ways. Contractors should be required to maintain a tidy work site during construction, maintenance or demolition to reduce the risk of trips and falls in the workplace. Materials for construction or maintenance should be stored in designated areas away from access ways and work areas. 2. FALLING OBJECTS

#### LOOSE MATERIALS OR SMALL OBJECTS

Construction, maintenance or demolition work on or around this building is likely to involve persons working above ground level or above floor levels. Where this occurs one or more of the following measures should be taken to avoid objects falling from the area where the work is being carried out onto persons below

- 1. Prevent or restrict access to areas below where the work is being carried out.
- Provide toeboards to scaffolding or work platforms. 2.
- Provide protective structure below the work area. з.
- 4. Ensure that all persons below the work area have Personal Protective Equipment (PPE).

#### **BUILDING COMPONENTS**

During construction, renovation or demolition of this building, parts of the structure including fabricated steelwork, heavy panels and many other components will remain standing prior to or after supporting parts are in place. Contractors should ensure that temporary bracing or other required support is in place at all times when collapse which may injure persons in the area is a possibility.

Mechanical lifting of materials and components during construction, maintenance or demolition presents a risk of falling objects. Contractors should ensure that appropriate lifting devices are used, that loads are properly secured and that access to areas below the load is prevented or restricted

#### 3. TRAFFIC MANAGEMENT

For building on a major road, narrow road or steeply sloping road: Parking of vehicles or loading/unloading of vehicles on this roadway may cause a traffic hazard. During construction, maintenance or demolition of this building designated parking for workers and loading areas should be provided. Trained traffic management personnel should be responsible for the supervision of these areas. For building where onsite loading/unloading is restricted: Construction of this building will require loading and unloading of materials on the roadway. Deliveries should be well planned to avoid congestion of loading areas and trained traffic management personnel should be used to supervise loading/unloading areas. For all buildings: Busy construction and demolition sites present a risk of collision where deliveries and other traffic are moving within the site. A traffic management plan supervised by trained traffic management personnel should be adopted for the work site.

### 4. SERVICES

#### GENERAL

Rupture of services during excavation or other activity creates a variety of risks including release of hazardous material. Existing services are located on or around this site. Where known, these are identified on the plans but the exact location and extent of services may vary from that indicated. Services should be located using an appropriate service (such as Dial Before You Dig), appropriate excavation practice should be used and, where necessary, specialist contractors should be used. Locations with underground power: Underground power lines MAY be located in or around this site. All underground power lines must be disconnected or carefully located and adequate warning signs used prior to any construction, maintenance or demolition commencing. Locations with overhead power lines: Overhead power lines MAY be near or on this site. These pose a risk of electrocution if struck or approached by lifting devices or other plant and persons working above ground level. Where there is a danger of this occurring, power lines should be, where practical, disconnected or relocated. Where this is not practical adequate warning in the form of bright coloured tape or signage should be used or a protective barrier provided.

All material packaging, building and maintenance components should clearly show the total mass of packages and where practical all items should be stored on site in a way which minimises bending before lifting. Advice should be provided on safe lifting methods in all areas where lifting may occur. Construction, maintenance and demolition of this building will require the use of portable tools and equipment. These should be fully maintained in accordance with manufacturer's specifications and not used where faulty or (in the case of electrical equipment) not carrying a current electrical safety tag. All safety guards or devices should be regularly checked and Personal Protective Equipment should be used in accordance with

#### manufacturer's specification 6. HAZARDOUS SUBSTANCES

#### ASBESTOS

For alterations to a building constructed prior to 1990: If this existing building was constructed prior to: asbestos 1990 - it therefore may contain asbestos 1986 - it therefore is likely to contain either in cladding material or in fire retardant insulation material. In either case, the builder should check and, if necessary, take appropriate action before demolishing, cutting, sanding, drilling or otherwise disturbing the existing structure.

#### POWDERED MATERIALS

Many materials used in the construction of this building can cause harm if inhaled in powdered form. Persons working on or in the building during construction, operational maintenance or demolition should ensure good ventilation and wear Personal Protective Equipment including protection against inhalation while using powdered material or when sanding, drilling, cutting or otherwise disturbing or creating powdered material.

#### TREATED TIMBER

The design of this building may include provision for the inclusion of treated timber within the structure. Dust or fumes from this material can be harmful. Persons working on or in the building during construction, operational maintenance or demolition should ensure good ventilation and wear Personal Protective Equipment including protection against inhalation of harmful material when sanding, drilling, cutting or using treated timber in any way that may cause harmful material to be released. Do not burn treated timber. VOLATILE ORGANIC COMPOUNDS

Many types of glue, solvents, spray packs, paints, varnishes and some cleaning materials and disinfectants have dangerous emissions. Areas where these are used should be kept well ventilated while the material is being used and for a period after installation. Personal Protective Equipment may also be required. The manufacturer's recommendations for use must be carefully considered at all times. SYNTHETIC MINERAL FIBRE

Fibreglass, rockwool, ceramic and other material used for thermal or sound insulation may contain synthetic mineral fibre which may be harmful if inhaled or if it comes in contact with the skin eves or other sensitive parts or the body. Personal Protective Equipment including protection against inhalation of harmful material should be used when installing, removing or working near bulk insulation material. TIMBER FLOORS

This building may contain timber floors which have an applied finish. Areas where finishes are applied should be kept well ventilated during sanding and application and for a period after installation. Personal Protective Equipment may also be required. The manufacturer's recommendations for use must be carefully considered at all times. 7. CONFINED SPACES

#### **EXCAVATION**

Construction of this building and some maintenance on the building will require excavation and installation of items within excavations. Where practical, installation should be carried out using methods which do not require workers to enter the excavation. Where this is not practical, adequate support for the excavated area should be provided to prevent collapse. Warning signs and barriers to prevent accidental or unauthorised access to all excavations should be provided

#### ENCLOSED SPACES

For buildings with enclosed spaces where maintenance or other access may be required: Enclosed spaces within this building may present a risk to persons entering for construction, maintenance or any other purpose. The design documentation calls for warning signs and barriers to unauthorised access. These should be maintained throughout the life of the building. Where workers are required to enter enclosed spaces, air testing equipment and Personal Protective Equipment should be provided.

#### SMALL SPACES

For buildings with small spaces where maintenance or other access may be required:

Some small spaces within this building will require access by construction or maintenance workers. The design documentation calls for warning signs and barriers to unauthorised access. These should be maintained throughout the life of the building. Where workers are required to enter small spaces they should be scheduled so that access is for short periods. Manual lifting and other manual activity should be restricted in small spaces.

#### 8. PUBLIC ACCESS

Public access to construction and demolition sites and to areas under maintenance causes risk to workers and public. Warning signs and secure barriers to unauthorised access should be provided. Where electrical installations, excavations, plant or loose materials are present they should be secured when not fully supervised. 9. OPERATIONAL USE OF BUILDING

#### **RESIDENTIAL BUILDINGS**

This building has been designed as a residential building. If it, at a later date, it is used or intended to be used as a workplace, the provisions of the Work Health and Safety Act 2011 or subsequent replacement Act should be applied to the new use.

Top soil shall be cut to a depth sufficient to remove all vegetation. Excavations for all footings shall be in accordance with the Engineer's Recommendations or the BCA requirements.

#### FOUNDATIONS AND FOOTINGS 1. Underfloor Fill

Underfloor fill shall be in accordance with the BCA.

2. Termite Risk Management

Termite treatment shall be carried out in accordance with the BCA. 3. Vapour Barrier

The vapour barrier installed under slab-on-ground construction shall be 0.2mm nominal thickness, high impact resistance polyethylene film installed in accordance with the BCA.

#### 4. Reinforcement

Reinforcement shall conform and be placed in accordance with the

Engineer's Recommendation and the BCA Support to all reinforcement shall be used to correctly position and avoid any undue displacement of reinforcement during the concrete pour

#### 5. Concrete

Structural shall not be less than Grade N20 except otherwise approved by the engineer and in accordance with the BCA

#### 6. Curing

All concrete slabs shall be cured in accordance with AS 3600. 7. Footings and Slabs on Ground

Concrete slabs and footings shall not be poured until approval to pour concrete is given by the engineer or the Local Authority. 8. Sub-Floor Ventilation

Where required, adequate cross ventilation will be provided to the space under suspended ground floor. Construction is to meet the requirements of the BCA. No section of the under floor area wall to be constructed in such manner that will hold pockets of still air. 9. Sub-Floor Access

If required, access will be provided under suspended floors in position where indicated on plan.

#### EFFLUENT DISPOSAL/DRAINAGE

1. Storm Water Drainage Stormwater drainage shall be carried out in accordance with the BCA. The Builder will allow for the supplying and laying of stormwater drains where shown on the site plan.

#### TIMBER FRAMING

1. Generally All timber framework sizes, spans, spacing, notching, checking and

fixing to all floor, wall and roof structure shall comply with the BCA or AS 1684. Alternative structural framing shall be to structural engineer's details and certification. The work shall be carried out in a proper and trades personal like

manner and shall be in accordance with recognised and accepted building practices,

#### 2. Roof Trusses

Where roof truss construction is used, trusses shall be designed in accordance with AS 1720 and fabricated in a properly equipped factory and erected, fixed and braced in accordance with the fabricator's written instructions

#### 3. Bracing

Bracing units shall be determined and installed in accordance with AS 1684 as appropriate for the design wind velocity for the size Bracing shall be evenly distributed throughout the building.

#### 4. Flooring

Floor joists will be covered with strip or sheet flooring as shown on plan with particular regard to ground clearance and installation in wet areas as required by the BCA. Thickness of the flooring is to be appropriate for the floor joist spacing.

Strip and sheet flooring shall be installed in accordance with AS 1684

When listed in Schedule of Works, floors shall be sanded to provide an even surface and shall be left clean throughout. 5. Timber Posts

Posts supporting the carports, verandas and porches shall be timber suitable for external use, or as otherwise specified, supported on glavanised or treated metal post shoes, unless otherwise specified. Posts shall be bolted to all adjoining beams as required by AS 1684 for the wind speed classification assessed for the site.

#### 6. Corrosion Protection

All metal brackets, facing plates and other associated fixings used in structural timber joints and bracing must have appropriate corrosion protection.

#### STEEL FRAMING

1. Generally

Steel floor, wall or roof framing shall be installed in accordance with the manufacturer's recommendations and the BCA. ROOFING

## All roof cladding is to comply with the relevant structural

performance and weathering requirements of the BCA and be installed as per the manufacturer's recommendations. 1.Tiled Roofing

The Builder will cover the roof of the dwelling with approved tiles as selected. The tiles are to be fixed (as required for appropriate design and wind speed) to battens of sixes appropriate to the spacing of rafters/trusses in accordance with the manufacturer's recommendations. The Builder will cover hips and ridges with capping and all necessary accessories including starters and apex caps. Capping and verge tiles are to be well bedded and neatly pointed. Roofing adjacent to valleys should be fixed so as to minimise water penetration as far as practicable. As roof tiles are made of natural products slight variation in colour is acceptable. 2. Metal Roofing

The Builder will provide and install a metal roof together with

#### MASONRY

#### 1. Damp Proof Courses

All damp proof courses shall comply with the BCA and Clause 1.0.10. The damp proof membrane shall be visible in the external face of the masonry member in which it is placed and shall not be bridged by any applied coatings, render or the like

#### 2. Cavity Ventilation

Open vertical joints (weepholes) must be created in the course immediately above any DPC or flashing at centres not exceeding 1.2m and must be in accordance with the BCA.

#### 3. Mortar and Joining

CLADDING AND LININGS

applicable special details.

1. External Cladding

Mortar shall comply with the BCA. Joint tolerances shall be in accordance with AS 3700.

#### 4. Lintels

Lintels used to support brickwork opening in walls must be suitable for the purpose as required by the BCA. The Builder will provide one lintel to each wall leaf. The Builder will provide corrosion protection in accordance with the BCA Part 3.4.4 as appropriate for the site environment and location of the lintels in the structure

#### 5. Cleaning

ceiling.

JOINERY

AS 2047.

SERVICES

Certificate

2.Electrical

3.Gas

4.Smoke Detectors

5.Thermal Insulation

and in accordance with the BCA.

1.Plumbing

licensed plumber

1. General

2. Door Frames

3. Doors and Doorsets

4. Window and Sliding Doors

in the relevant BASIX Certificate.

balconies as per the BCA.

and installed in accordance with AS 2047.

5. Stairs, Balustrades and other Barriers

3.Waterproofing

The Builder will clean all exposed brickwork with an approved cleaning system. Care should be taken not to damage brickwork or joints and other fittings

Sheet materials or other external cladding shall be fixed in

Where required in open verandas, porches and eave soffits,

materials indicated on the plans shall be installed.

2.Internal Wall and Ceilings Linings

accordance with the manufacturer's recommendations and any

The Builder will provide gypsum plasterboards or other selected

materials to walls and ceilings. Plasterboard sheets are to have

recessed edges and will be a minimum of 10mm thick. Internal

joint set as required. The lining of wet area and walls shall be

angles in walls from floor to ceiling are to be set. Suitable cornice

moulds shall be fixed at the junction of all walls and ceilings or the

constructed in accordance with the BCA. Wet area lining is to be

fixed in accordance with the manufacturer's recommendations The ceiling access hole shall be of similar material to the adjacent

All internal wet area and balconies over internal habitable rooms

All joinery work (metal and timber) shall be manufactured and

External door frames shall be a minimum of 32mm thick solid

doorframes shall be installed where indicated on drawings in

in accordance with accepted building practices. Unless listed

Sliding and other aluminium windows and the doors shall be

otherwise in the Schedule of Works, doors and door sets shall be

Sliding and other timber windows and doors shall be manufactured

installed in accordance with manufacturer's recommendations and

All glazing shall comply with the BCA and any commitments outlined

The Builder will provide stairs or ramps to any change in levels, and

balustrades or barriers to at least one side of ramps, landings and

All plumbing shall comply with the requirements of the relevant

supply authority and AS 3500. The work is to be carried out by a

Fittings, as listed in the Schedule of Works, shall be supplied and

installed to manufacturer's recommendations. Fittings, hot water

system and any rainwater harvesting facilities shall be appropriate

The Builder will provide all labour and materials necessary for the proper installation of the electricity service by a licensed electrician

relevant supply authority. Unless otherwise specified, the electrical

in accordance with AS/NZS 3000 and the requirements of the

All installation (including LPG) shall be carried out in accordance with the rules and requirements of the relevant supply authority.

The Builder will provide and install smoke alarms manufactured in

accordance with AS 3786 AS specified or as indicated on the plans

Where thermal insulation is used in the building fabric or services,

such as air conditioning ducting or hot water systems, it shall be

service shall be 240 volt, single phase supply

to satisfy any commitment outlined in the relevant BASIX

accordance with the manufacturer's recommendations.

manufactured in accordance with AS 2688 and AS 2689.

rebated 12mm deep to receive doors. Internal jamb linings shall be

All internal and external timber door and door sets shall be installed

a minimum of 18mm thick fit with 12mm thick door stops. Metal

are to be waterproof in accordance with the BCA.

installed according to accepted building practices.

#### 5. MANUAL TASKS

Components within this design with a mass in excess of 25kg should be lifted by two or more workers or by mechanical lifting device. Where this is not practical, suppliers or fabricators should be required to limit the component mass

#### **10.OTHER HIGH RISK ACTIVITY**

Code All electrical work should be carried out in accordance with of Practice:

Managing Electrical Risks at the Workplace, AS/NZ and all licensing requirements. 3012 All work using Plant should be carried out in accordance with Code of Practice:

Managing Risks of Plant at the Workplace. Code of All work should be carried out in accordance with Practice:

Managing Noise and Preventing Hearing Loss at Work. Due to the history of serious incidents it is recommended that particular care be exercised when undertaking work involving steel construction and concrete placement. All the above applies

#### EXCAVATIONS

#### 1.Excavations

The part of the site to be covered by the proposed building or buildings and an area at least 1000mm wide around that part of the site or to boundaries of the site, whichever is the lesser, shall be cleared or graded as indicated on the site works plan.

accessories all in accordance with the manufacturer's recommendations.

Except where design prohibits, sheets shall be in single lengths from fascia to ridge. Fixing sheets shall be strictly in accordance with the manufacturer's recommendation as required for the appropriate design and wind speed. Incompatible materials shall not be used for flashings, fasteners or downpipes.

#### 3. Gutters and Downpipes

Gutters and downpipes shall be manufactured and installed in accordance with the BCA. Gutters and downpipes are to be compatible with other materials used.

#### 4. Sarking

Sarking under roof coverings must comply with and be fixed in accordance with manufacturer's recommendations

#### 5 Sealants

Appropriate sealants shall be used where necessary and in accordance with manufacturer's recommendations.

#### 6. Flashing

Flashings shall comply with, and be installed in accordance with the BCA.

installed in accordance with manufacturer's recommendations to achieve the R-Values required by the BCA or as outlined in the relevant BASIX Certificate.

#### TILING

#### 1.Materials

Cement mortar and other adhesives shall comply with AS 3958.1 or tile manufacturer's recommendation.

#### 2.Installation

Installation of tiles shall be in accordance with AS 3958.1, manufacturer's recommendations or accepted building practices. Where practicable, spacing between tiles should be even and regular. The Builder will provide expansion joints where necessary. All vertical and horizontal joints between walls and fixtures e.g. bench top, bath, etc. and wall/floor junctions to be filled with flexible mould resistant sealant. All joints in the body of tiled surfaces shall be neatly filled with appropriate grout material as specified by the tile manufacturer or accepted building practice. As tiles are made of natural products a slight variation in colour is acceptable.

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	LOT No: 80 DP No: 251603		SHEET SIZE:	A3	03.01.23	CLIENT CHG DECK	В	DC		
	STREET: 845 RIDGE ROAD, COOKS GAP				00.01.20					
			START DATE:	19.12.22						
		CLIENT: WHITE		DWG No:	D5489					
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