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PO Box 363 Balgowlah NSW 2093

### Bush Fire Assessment Report

In relation to proposed development at:

17 Farrer Place, Frenchs Forest, NSW

<i>Report No:</i> 17Far-01	<i>Date:</i> 30.11.2022	<i>Author:</i> Matthew Toghil (BPAD Accreditation No: 31642)	<i>Reviewed by:</i> Kieran Taylor (BPAD Level 3: Accreditation No: 23038)
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## 1. Introduction

The purpose of this report is to provide a bushfire risk assessment for the proposed new alfresco area and landscaping at No 17 Farrer Place, Frenchs Forest, NSW, and to certify that the plans and specifications provided are in accordance with the requirements of *Planning for Bushfire Protection 2019* and AS 3959-2018.

The proposed development is an infill development as defined within chapter 7 of *Planning for Bushfire Protection 2019* and this report has been prepared in accordance with the requirements of Section 4.14 of the Environment Planning and Assessment Act.



Figure 1: Aerial photo



Figure 2: Bushfire prone land map

## 2. Development Proposal

The development proposal is for the construction of a new alfresco area at the rear of the dwelling and landscaping.

<b><i>Architectural plans provided by:</i></b>	<b><i>Space Landscape Designs</i></b> <b><i>Project No: 222007</i></b> <b><i>Dated: 13.10.2022 (Rev C)</i></b>
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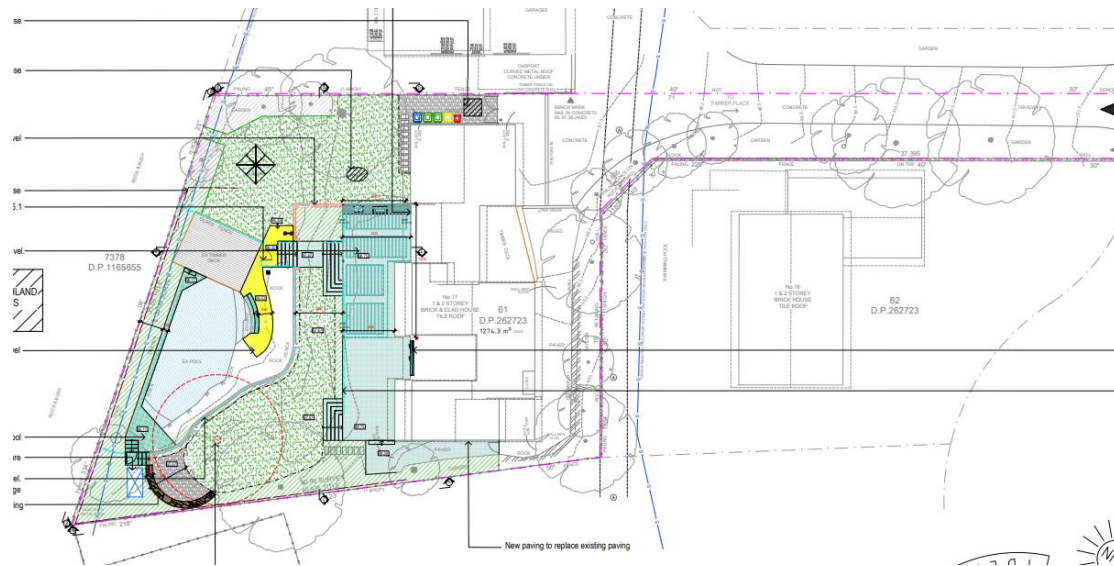


Figure 3: Site plan



Figure 4: West elevation



### 3. Classification of the Vegetation on and surrounding the site

For the purpose of a Bush Fire Risk Assessment, vegetation within 140m of the site is assessed and classified. In this instance, there is an area of Category 1 vegetation adjoining the western boundary of the site which is of most significance. The predominant vegetation formation within this area consists of Sydney Coastal Dry Sclerophyll Forest (refer to Figure 5), which for the purpose of this assessment will be classified as 'Forest'.



Figure 4: Aerial photo showing vegetation within 140m of the site.

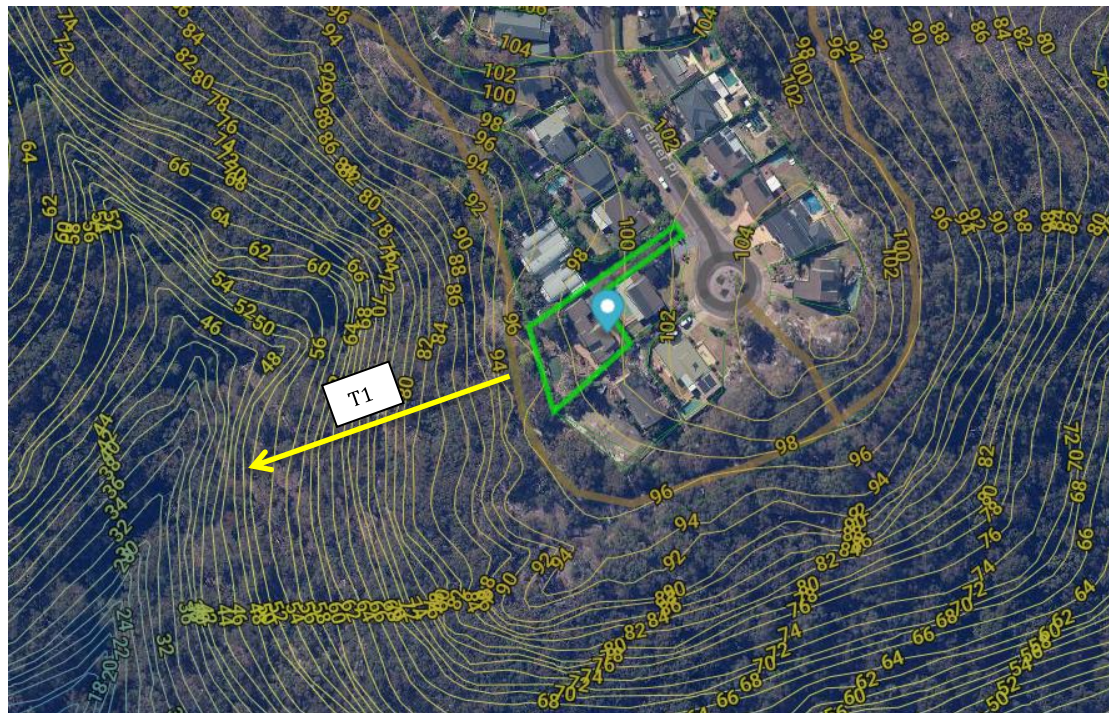


Figure 5: Aerial photo showing vegetation formations surrounding the subject site (Source: NSW Government Central Resource for Sharing and Enabling Environmental Data)



#### 4. Effective Slope

The effective slope of the vegetation to the west, within T1 consists of a number of sandstone terraces and escarpments that step down steeply towards the water course below. Given this terracing, taking an average slope based on contour lines is not accurate. The effective slope has been based on the vegetated areas on the high and low sides of these escarpments which has been assessed as being >15-20 degrees downslope.



**Legend:** → Direction of effective slope

Figure 6: Contour map

Transect Line	Effective slope
T1	Downslope >15-20 degrees

## 5. Bushfire Risk Assessment



Figure 7: Aerial photo showing the location of the site and distance to surrounding vegetation.

**Table 1;** Determination of the category of bushfire attack for the development, and subsequent required building standards (Reference Table A1.12.5 *Planning for Bush Fire Protection 2019*).

Direction	Distance to classified vegetation	Vegetation Classification	Assessment of effective slope	FDI	Bushfire Attack Level
T1	14.00m	Forest	Downslope >15-20 degrees	100	BAL-FZ

**Summary:** Based upon the relevant provisions of PBP the anticipated radiant heat attack for the new works is >40 kW/m<sup>2</sup> and the subsequent Bushfire Attack Level is BAL-FZ AS 3959- 2018.

## 6. Construction requirements

All new construction shall comply with a minimum standard of section 3 [construction general] and section 9 (BAL-FZ), AS3959-2018 and Chapter 7 of *Planning for Bushfire Protection 2019*.



## 6.1 Pool

For the purpose of this assessment the pool is considered a Class 10 structure. With reference to Planning for Bush Fire Protection 2019 Section 8.3.2, Class 10 structures that are located within 6m of a dwelling must be constructed in accordance with the NCC. Under the Deemed to Satisfy provisions of the NCC, building work on Bush Fire Prone Land must comply with AS 3959-2018 or the NASH Standard.

## 6.2 Pool fencing

With reference to *Planning for Bush Fire Protection 2019* Section 7.6, 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 or greater, they should be made of non-combustible material only.

## 6.3 Retaining walls

For the purpose of this assessment the retaining walls are considered a Class 10b structure. With reference to Planning for Bush Fire Protection 2019 Section 8.3.2, Class 10a and 10b structures that are located within 6m of a dwelling must be constructed in accordance with the NCC.

All new retaining walls should be constructed of masonry or other non-combustible material.

## 6.4 Fences and gates

All fences in bushfire prone areas should be made of either hardwood or non-combustible material. However, in circumstances where the fences are within 6m of a building or in areas of BAL-29 or greater, they should be made of non-combustible material only.

## 6.5 Landscaping

All new landscaping has been designed in accordance with Appendix 4 of *Planning for Bushfire Protection 2019* outlines the requirements for Asset Protection Zones (APZ's)

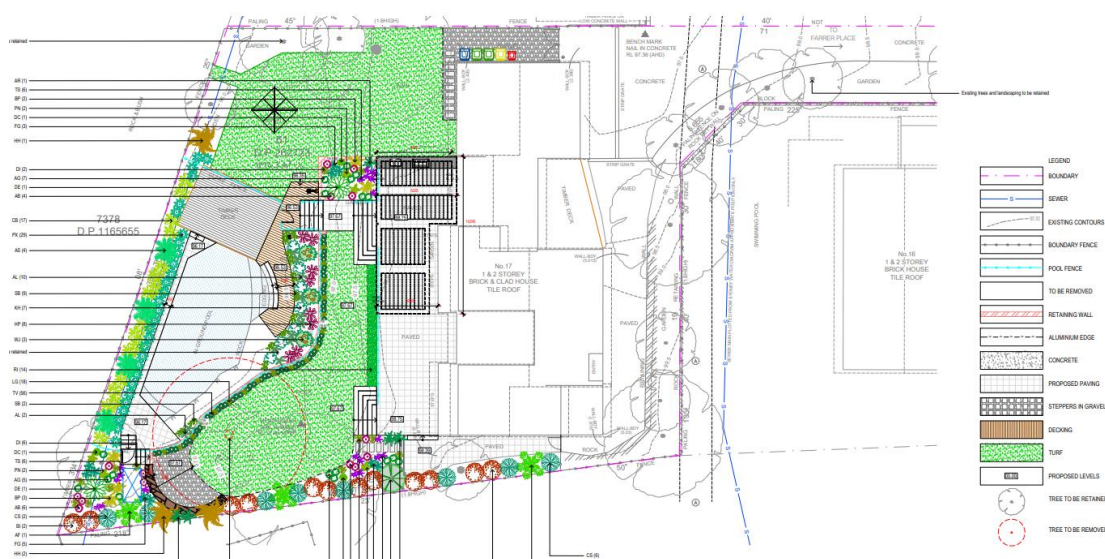


Figure 8: landscape plan



## 7. Summary

This report consists of a bushfire risk assessment for the proposed alfresco area and landscaping at No 17 Farrer Place, Frenchs Forest, NSW.

This report has considered all elements of bushfire attack and based on the plans and specification provided the development can satisfy the Objectives and Performance requirements of *Planning for bushfire Protection 2019* and *AS 3959 2018* if constructed in accordance with the recommendations made within this report.

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*Note: Notwithstanding the precautions adopted, it should always be remembered that bushfires burn under a wide range of conditions and an element of risk, no matter how small always remains, and although the standard is designed to improve the performance of such buildings, there can be no guarantee, because of the variable nature of bushfires, that any one building will withstand a bushfire attack on every occasion.*

*This report is a Bushfire Hazard Assessment that provides the required information to assist Local Councils and the Rural Fire Service in determining compliance in accordance with *Planning for Bushfire Protection 2019* and *AS3959, 2018*. The local Council is the final consenting authority and the construction of the building must comply with the recommendations included in the council's conditions of consent.*



Matthew Toghil- Bushfire Consultant  
Accreditation No. BPAD31642  
Grad Cert Bushfire Protection, UWS 2012  
Certificate IV Building & Construction  
Certificate III in Public Safety  
(Firefighting and Emergency Operations)



## Appendix 1: Performance criteria and acceptable solutions as per Table 7 *Planning for bushfire Protection 2019*

	PERFORMANCE CRITERIA		ACCEPTABLE SOLUTIONS	
	The intent may be achieved where:			
ACCESS	<ul style="list-style-type: none"> <li>firefighting vehicles are provided with safe, all-weather access to structures and hazard vegetation;</li> </ul>		<ul style="list-style-type: none"> <li>property access roads are two-wheel drive, all-weather roads;</li> </ul>	
	<ul style="list-style-type: none"> <li>the capacity of access roads is adequate for firefighting vehicles;</li> </ul>		<ul style="list-style-type: none"> <li>the capacity of road surfaces and any bridges/causeways is sufficient to carry fully loaded firefighting vehicles (up to 23 tonnes), bridges and causeways are to clearly indicate load rating;</li> </ul>	
	<ul style="list-style-type: none"> <li>there is appropriate access to water supply;</li> </ul>		<ul style="list-style-type: none"> <li>hydrants are provided in accordance with the relevant clauses of AS 2419.1:2005;</li> <li>There is suitable access for a Category 1 fire appliance to within 4m of the static water supply where no reticulated supply is available;</li> </ul>	
	<ul style="list-style-type: none"> <li>firefighting vehicles can access the dwelling and exit the property safely;</li> </ul>		<ul style="list-style-type: none"> <li>at least one alternative property access road is provided for individual dwellings or groups of dwellings that are located more than 200 metres from a public thorough road;</li> <li>There are no specific access requirements in an urban area where an unobstructed path (no greater than 70m) is provided between the most distant external part of the proposed dwelling and the nearest part of the public access road (where the road speed limit is not greater than 70kph) that supports the operational use of emergency firefighting vehicles.</li> <li>In circumstances where this cannot occur, the following requirements apply: <ul style="list-style-type: none"> <li>minimum 4m carriageway width;</li> <li>in forest, woodland and heath situations, rural property roads have passing bays every 200m that are 20m long by 2m wide, making a minimum trafficable width of 6m, at the passing bay;</li> <li>a minimum vertical clearance of 4m to any overhanging obstructions, including tree branches;</li> <li>property access must provide a suitable turning area in accordance with Appendix 3;</li> <li>curves have a minimum inner radius of 6m and are minimal in number to allow for rapid access and egress;</li> <li>the minimum distance between inner and outer curves is 6m;</li> <li>the crossfall is not more than 10 degrees;</li> <li>maximum grades for sealed roads do not exceed 15 degrees and not more than 10 degrees for unsealed roads; and</li> <li>a development comprising more than three dwellings has formalised access by dedication of a road and not by right of way.</li> </ul> </li> <li>Note: Some short constrictions in the access may be accepted where they are not less than 3.5m wide, extend for no more than 30m and where the obstruction cannot be reasonably avoided or removed. The gradients applicable to public roads also apply to community style development property access roads in addition to the above.</li> </ul>	
WATER SUPPLIES	<ul style="list-style-type: none"> <li>an adequate water supply is provided for firefighting purposes;</li> </ul>		<ul style="list-style-type: none"> <li>reticulated water is to be provided to the development, where available; and</li> <li>a static water supply is provided where no reticulated water is available;</li> </ul>	
	<ul style="list-style-type: none"> <li>water supplies are located at regular intervals; and</li> <li>the water supply is accessible and reliable for firefighting operations;</li> </ul>		<ul style="list-style-type: none"> <li>fire hydrant spacing, design and sizing comply with the relevant clauses of AS 2419.1:2005;</li> <li>hydrants are not located within any road carriageway; and</li> <li>reticulated water supply to urban subdivisions uses a ring main system for areas with perimeter roads;</li> </ul>	
	<ul style="list-style-type: none"> <li>flows and pressure are appropriate;</li> </ul>		<ul style="list-style-type: none"> <li>fire hydrant flows and pressures comply with the relevant clauses of AS 2419.1:2005;</li> </ul>	
	<ul style="list-style-type: none"> <li>the integrity of the water supply is maintained;</li> </ul>		<ul style="list-style-type: none"> <li>all above-ground water service pipes external to the building are metal, including and up to any taps;</li> </ul>	
ELECTRICITY SERVICES	<ul style="list-style-type: none"> <li>a static water supply is provided for firefighting purposes in areas where reticulated water is not available;</li> </ul>		<ul style="list-style-type: none"> <li>where no reticulated water supply is available, water for firefighting purposes is provided in accordance with Table 5.3d;</li> <li>a connection for firefighting purposes is located within the IPA or non-hazard side and away from the structure, 65mm S1000 outlet with a ball valve is fitted to the outlet;</li> <li>ball valve and pipes are adequate for water flow and are metal;</li> <li>supply pipes from tank to ball valve have the same bore size to ensure flow volume;</li> <li>underground tanks have an access hole of 200mm to allow tankers to refill direct from the tank;</li> <li>a hardened ground surface for truck access is supplied within 4m;</li> <li>above-ground tanks are manufactured from concrete or metal;</li> <li>raised tanks have their stands constructed from non-combustible material or bush fire-resistant timber (see Appendix F of AS 3959);</li> <li>unobstructed access can be provided at all times;</li> <li>underground tanks are clearly marked;</li> <li>tanks on the hazard side of a building are provided with adequate shielding for the protection of firefighters;</li> <li>all exposed water pipes external to the building are metal, including any fittings;</li> <li>where pumps are provided, they are a minimum 5hp or 3kW petrol or diesel-powered pump, and are shielded against bush fire attack; any hose and reel for firefighting connected to the pump shall be 19mm internal diameter; and</li> <li>fire hose reels are constructed in accordance with AS/NZS 1221:1997, and installed in accordance with the relevant clauses of AS 2441:2005;</li> </ul>	
GAS SERVICES	<ul style="list-style-type: none"> <li>location of electricity services limits the possibility of ignition of surrounding bush land or the fabric of buildings;</li> </ul>		<ul style="list-style-type: none"> <li>where practicable, electrical transmission lines are underground; and</li> <li>where overhead, electrical transmission lines are proposed as follows: <ul style="list-style-type: none"> <li>lines are installed with short pole spacing (30m), unless crossing gullies, gorges or riparian areas; and</li> <li>no part of a tree is closer to a power line than the distance set out in accordance with the specifications in ISCS3 <i>Guideline for Managing Vegetation Near Power Lines</i>.</li> </ul> </li> </ul>	
	<ul style="list-style-type: none"> <li>location and design of gas services will not lead to ignition of surrounding bushland or the fabric of buildings;</li> </ul>		<ul style="list-style-type: none"> <li>reticulated or bottled gas is installed and maintained in accordance with AS/NZS 596:2014 and the requirements of relevant authorities; and</li> <li>metal piping is used;</li> <li>all fixed gas cylinders are kept clear of all flammable materials to a distance of 10m and shielded on the hazard side;</li> <li>connections to and from gas cylinders are metal;</li> <li>polymer-sheathed flexible gas supply lines are not used; and</li> <li>above-ground gas service pipes are metal, including and up to any outlets;</li> </ul>	
	<ul style="list-style-type: none"> <li>the proposed building can withstand bush fire attack in the form of embers, radiant heat and flame contact;</li> </ul>		<ul style="list-style-type: none"> <li>BAL is determined in accordance with Tables A1.12.5 to A1.12.7; and</li> <li>construction provided in accordance with the NCC and as modified by section 7.5 (please see advice on construction in the flame zone).</li> </ul>	
	<ul style="list-style-type: none"> <li>proposed fences and gates are designed to minimise the spread of bush fire;</li> </ul>		<ul style="list-style-type: none"> <li>fencing and gates are constructed in accordance with section 7.6;</li> </ul>	
CONSTRUCTION STANDARDS	<ul style="list-style-type: none"> <li>proposed Class 10a buildings are designed to minimise the spread of bush fire;</li> </ul>		<ul style="list-style-type: none"> <li>Class 10a buildings are constructed in accordance with section 8.3.2;</li> </ul>	
	<ul style="list-style-type: none"> <li>Home-based child care: the proposed building can withstand bush fire attack in the form of wind, localised smoke, embers and expected levels of radiant heat;</li> </ul>		<ul style="list-style-type: none"> <li>an APZ is provided in accordance with Table A1.12.2 or A1.12.3 in Appendix 1 of this document around the entire building or structure; and</li> <li>the existing dwelling is required to be upgraded to improve ember protection. This is to be achieved by enclosing or covering openings with a corrosion-resistant steel, bronze or aluminium mesh with a maximum aperture of 2mm. Where applicable this includes the operable portion of the windows, vents, weepholes and eaves, but does not include roof tile spaces. Weather strips, draught excluders or draught seals shall be installed at the base of side hung external doors as per AS 3959. The subfloor space must be enclosed;</li> </ul>	
LANDSCAPING	<ul style="list-style-type: none"> <li>landscaping is designed and managed to minimise flame contact and radiant heat to buildings, and the potential for wind-driven embers to cause ignitions;</li> </ul>		<ul style="list-style-type: none"> <li>compliance with the NSW RFS 'Asset protection zone standards' (see Appendix 4);</li> <li>a clear area of low-cut lawn or pavement is maintained adjacent to the house;</li> <li>fencing is constructed in accordance with section 7.6; and</li> <li>trees and shrubs are located so that: <ul style="list-style-type: none"> <li>the branches will not overhang the roof;</li> <li>the tree canopy is not continuous; and</li> <li>any proposed windbreak is located on the elevation from which fires are likely to approach;</li> </ul> </li> </ul>	
EMERGENCY MANAGEMENT	<ul style="list-style-type: none"> <li>Home-based child care: a bush fire emergency and evacuation management plan is prepared;</li> </ul>		<ul style="list-style-type: none"> <li>a Bush Fire Emergency Management and Evacuation Plan is prepared by the operator consistent with the NSW RFS publication: <i>A Guide to Developing a Bush Fire Emergency Management and Evacuation Plan</i>, and the AS 3745:2010;</li> </ul>	

Note: the above specifications and requirements apply in relation to residential infill developments but may be used to guide the application of BMPs for 'other' developments (see Chapter 8).



## Appendix 2: 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
- fascias and bargeboards, in BAL-40, shall comply with:
  - clause 8.4.1(b) of AS 3959; or
  - clause 8.6.6 of AS 3959.

The interpretation of this variation is:

Enclosed subfloors: For subfloor supports there are no requirements for supporting posts, columns, stumps, stringers, piers and poles for subfloor supports for BAL 12.5 and BAL 19 when the subfloor space is enclosed with a wall that complies with the determined BAL level for the site.

Unenclosed subfloors: For unenclosed subfloor supporting posts, columns, stumps, stringers, piers and poles the requirements are upgraded from BAL 12.5 and BAL 19 to BAL 29 level.

Enclosed verandas: There are no requirements for supporting posts, columns, stumps, stringers, piers and poles for verandas, decks, steps and landings when the subfloor space is enclosed with a wall that complies with the determined BAL level for the site.

Unenclosed verandas: The requirements for supporting posts, columns, stumps, stringers, piers and poles for verandas, decks, steps, and landings are upgraded from BAL 19 and BAL 12.5 to BAL 29 level.

For unenclosed subfloors of the main building or verandas, decks, steps and landings for BAL 12.5, 19 and BAL 29 supporting posts, columns, stumps, stringers, piers and poles shall be:

1. A non-combustible material; or
2. A Bushfire resistant timber; or
3. A combination of 1 and 2

Acceptable timber species:

Black-butt, Turpentine, Silver Top Ash, Spotted Gum, Red Iron Bark, Kwila, Red River Gum

Sarking: To comply with the NSW State variation any sarking used for BAL 12.5 shall:

- Be Non-combustible; or
- Comply with AS/NZ 4200.1 be installed on the outside of the frame and have a flammability index of not more than 5 as determined by AS1530.2

## Appendix 3: Asset Protection Zones (APZ's)

### A4.1.1 Inner Protection Areas (IPAs)

The IPA is the area closest to the building and creates a fuel-managed area which can minimise the impact of direct flame contact and radiant heat on the development and act as a defensible space. Vegetation within the IPA should be kept to a minimum level. Litter fuels within the IPA should be kept below 1cm in height and be discontinuous.

In practical terms the IPA is typically the curtilage around the building, consisting of a mown lawn and well maintained gardens.

When establishing and maintaining an IPA the following requirements apply:

#### Trees

- tree canopy cover should be less than 15% at maturity;
- trees at maturity should not touch or overhang the building;
- lower limbs should be removed up to a height of 2m above the ground;
- tree canopies should be separated by 2 to 5m; and
- preference should be given to smooth barked and evergreen trees.

#### Shrubs

- create large discontinuities or gaps in the vegetation to slow down or break the progress of fire towards buildings should be provided;
- shrubs should not be located under trees;
- shrubs should not form more than 10% ground cover; and
- clumps of shrubs should be separated from exposed windows and doors by a distance of at least twice the height of the vegetation.

#### Grass

- grass should be kept mown (as a guide grass should be kept to no more than 100mm in height); and
- leaves and vegetation debris should be removed.

### A4.1.2 Outer Protection Areas (OPAs)

An OPA is located between the IPA and the unmanaged vegetation. It is an area where there is maintenance of the understorey and some separation in the canopy. The reduction of fuel in this area aims to decrease the intensity of an approaching fire and restricts the potential for fire spread from crowns; reducing the level of direct flame, radiant heat and ember attack on the IPA.

Because of the nature of an OPA, they are only applicable in forest vegetation.

When establishing and maintaining an OPA the following requirements apply:

#### Trees

- tree canopy cover should be less than 30%; and
- canopies should be separated by 2 to 5m.

#### Shrubs

- shrubs should not form a continuous canopy; and
- shrubs should form no more than 20% of ground cover.

#### Grass

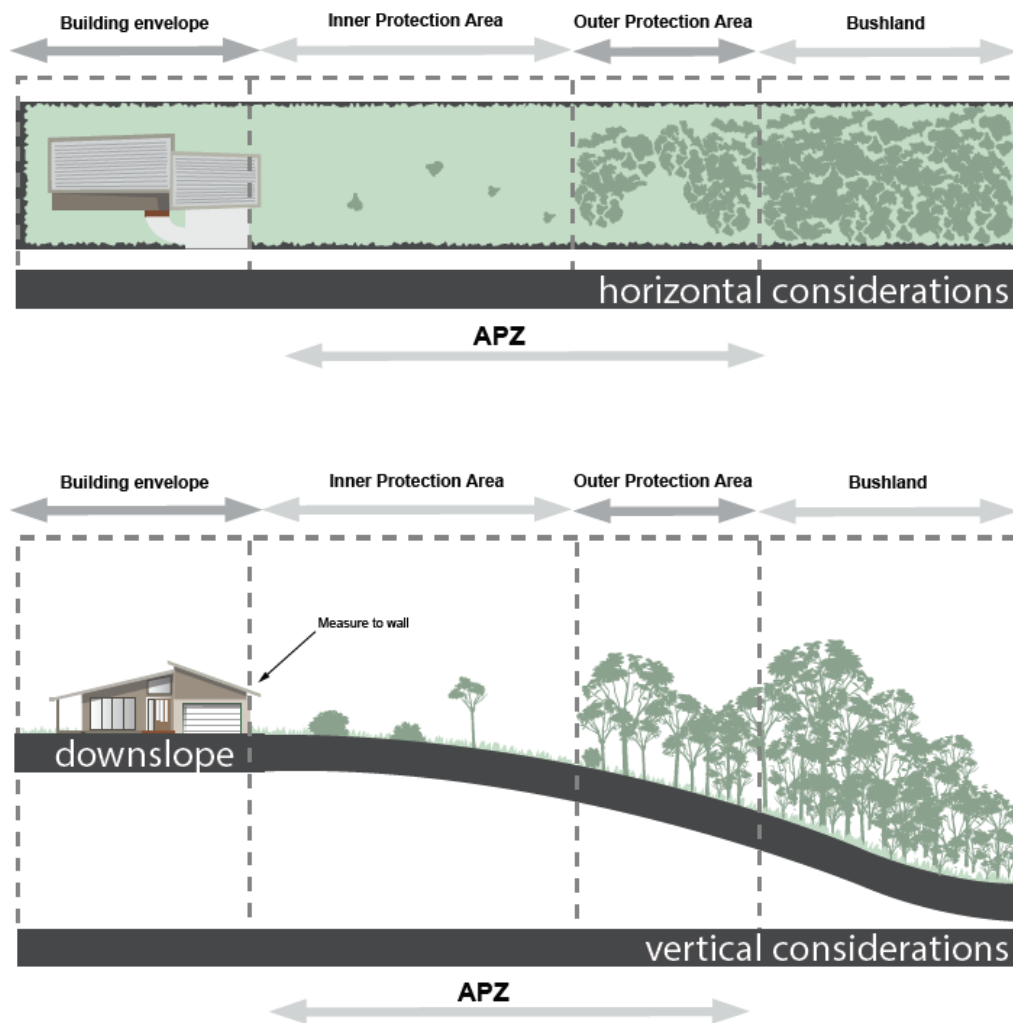
- grass should be kept mown to a height of less than 100mm; and
- leaf and other debris should be removed.

An APZ should be maintained in perpetuity to ensure ongoing protection from the impact of bush fires. Maintenance of the IPA and OPA as described above should be undertaken regularly, particularly in advance of the bush fire season.



**Figure A4.1**

Typical Inner and Outer Protection Areas.



## Appendix 4: Northern Beaches Council Bushfire Certificate

### BUSHFIRE RISK ASSESSMENT CERTIFICATE

THIS FORM IS TO BE COMPLETED BY A RECOGNISED CONSULTANT IN BUSHFIRE RISK ASSESSMENT IN ACCORDANCE WITH SECTION 4.14 (b) OF THE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979 NO 203

PROPERTY ADDRESS:	17 Farrer Place Frenchs Forest
DESCRIPTION OF PROPOSAL:	New alfresco area and landscaping
PLAN REFERENCE: (relied upon in report preparation)	space Landscape Design Project No: 222007 Dated: 13.10.2022 (Rev C)
BAL RATING:	BAL-FZ (If the BAL rating is FZ the application is to be referred to NSW RFS for assessment.)
DOES THE PROPOSAL RELY ON ALTERNATE SOLUTIONS:	YES <input type="radio"/> NO <input checked="" type="radio"/> (Circle the relevant response) (If YES the application is to be referred to NSW RFS for assessment.)

I Matthew Toghil of Bushfire Australia Pty Ltd  
(Print Name) (Trading or Company Name)

have carried out a bushfire risk assessment on the above mentioned proposal and property. A detailed Bushfire Assessment Report is attached which includes the submission requirements set out in Appendix 2 of Planning for Bushfire Protection 2019 together with recommendations as to how the relevant specifications and requirements are to be achieved.

REPORT REFERENCE:	17FAV-01
REPORT DATE:	30.11.2022
CERTIFICATION NO/ACCREDITED SCHEME:	BPAD31642

I hereby certify, in accordance with Section 4.14 of the Environmental Planning and Assessment Act 1979 No 203:

- That I am a person recognised by the NSW Rural Fire Service as a qualified consultant in bushfire risk assessment; and
- That subject to the recommendations contained in the attached Bushfire Risk Assessment Report the proposed development conforms to the relevant specifications and requirements

I am aware that the Bushfire Assessment Report, prepared for the above mentioned site is to be submitted in support of a development application for this site and will be relied upon by Northern Beaches Council as the basis for ensuring that the bushfire risk management aspects of the proposed development have been addressed in accordance with Planning for Bushfire Protection 2019.

SIGNATURE:  DATE: 30.11.2022

Note: this certificate must be completed and signed by a person recognised by the NSW Rural Fire Service as a qualified consultant in bush fire risk assessment in accordance with Section 4.14 of the EP&A Act 1979 No 203.

This form has been prepared by Northern Beaches Council for attachment to the Bushfire Assessment Report.



