

BAL-29 Construction checklist

Date:

Site address:

Job description:

Bushfire risk assessment reference:

Council Consent or DA Reference:

The following specification list has been provided and certified as in accordance with the DA consent, the requirements of Planning for Bushfire Protection 2006 and AS3959, 2009. The specification list, in accordance with the recommendations of the bushfire risk assessment, has been varied to comply with the requirements of Section A3.7 of the NSW Rural Fire Service Addendum to Appendix 3 of Planning for Bushfire Protection 2006.

Bushfire-resisting timber species (Appendix H of AS3959, 2009)

Where the Australian Standard requires bushfire resisting timber the following list of species is appropriate: Ash, silvertop- Eucalyptus sieberi Black-butt - Eucalyptus pilularis Gum, red, river – Eucalyptus camaldulensis Gum, spotted - Corymbia maculate, Corymbia henryi, Corymbia citriodora Ironbark, red - Eucalyptus sideroxylon Kwila (Merbau) - Intsia bijuga Turpentine - Syncarpia glomulifera

Deemed to Satisfy Provisions of AS3959, 2009	Conforms to DTS	Alternate solution
 SARKING Any sarking used for BAL-12.5, BAL-19, BAL-29 or BAL-40 shall be: a) Non-combustible; or b) Breather-type sarking complying with AS/NZS 4200.1 and with a flammability index of not more than 5 (see AS1530.2) and sarked on the outside of the frame; or c) An insulation material conforming to the appropriate Australian Standard for that material. 		
7.1 GENERAL A building assessed in Section 2 as being BAL-29 shall comply with Section 3 and Clauses 7.2 to 7.8. NOTE: There are a number of Standards that specify requirements for 		
 7.2 SUBFLOOR SUPPORTS This Standard does not provide construction requirements for subfloor supports where the subfloor space is enclosed with— a) a wall that complies with Clause 7.4, except that sarking is not required where specified in Clause 7.4.1; or b) a mesh or perforated sheet with a maximum aperture of 2 mm, made of corrosion resistant steel, bronze or aluminium; or c) a combination of Items (a) and (b) above. 		

Where the subfloor space is unenclosed, the support posts, columns, situms, piers and poles shall be— (i) of non-combustible material; or (ii) of bushfire-resisting timber; or (iii) a combination of Items (i) and (ii) above. NOTE: This requirement applies to the principal building only and not to verandas, decks, steps, ramps and landings (see Clause 7.7). Z.3FLOORS 7.3.1 Concrete slabs on ground This Standard does not provide construction requirements for concrete slabs on ground. 7.3.2 Liexted floors 7.3.3 Liexted floors 7.3.1 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) a wall that complies with Clause 7.4, except that sarking is not required where specified in Clause 7.4.1 (c); or b) a mesh or perforated sheet with a maximum aperture of 2 mm, made of corrosion resistant steel, broaze or aluminium; or c) a combination of Items (a) and (b) above. 7.3.2.2 Lineclosed subfloor space Where the subfloor space is unenclosed, the bearers, joists and flooring, less than 400mm above finished ground level, shall be one of the following: (i) Bearers and joists shall be— A. morenoustible; or B. bushfire-resisting timber; or C. a combination of Items (A) (B) obve (i) Floor		
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Earth wall including mud brick.		
	Earth wall including mud brick.	

(b) Timber logs of a species with a density of 680 kg/m3 or greater at a 12 percent moisture content; of a minimum nominal overall thickness of 90 mm and a minimum thickness of 70 mm (see Clause 3.11); and gauge planed.	
(c) Cladding that is fixed externally to a timber-framed or a steel-framed wall and is—	
(i) fibre-cement a minimum of 6 mm in thickness; or(ii) steel sheet; or(iii) bushfire-resisting timber; or	
(iv) a combination of any of Items (i), (ii), (iii) above. Or(d) a combination of any of Items (a), (b) or (c) above.	
7.4.2 Joints	
All joints in the external surface material of walls shall be covered, sealed, overlapped, backed or butt-jointed to prevent gaps greater than 3 mm.	
7.4.3 Vents and weepholes	
Vents and weepholes in external walls shall be screened with a mesh with a maximum aperture of 2 mm, made of corrosion-resistant steel, bronze or aluminium, except where they are less than 3 mm (see Clause	
3.6).	
7.5 EXTERNAL GLAZED ELEMENTS AND ASSEMBLIES AND EXTERNAL DOORS	
7.5.1 Bushfire shutters Where fitted, bushfire shutters shall comply with Clause 3.7 and be made from—	
a) non-combustible material; or	
b) bushfire-resisting timber; orc) a combination of Items (a) or (b) above.	
<u>7.5.1A</u> Screens for windows and doors Where fitted, screens for windows and doors shall have a mesh or	
perforated sheet with a maximum aperture of 2 mm, made of corrosion- resistant steel, bronze or aluminium. Gaps between the perimeter of the screen assembly and the building element to which it is fitted shall not	
exceed 3 mm. The frame supporting the mesh or perforated sheet shall be made	
a) metal; or	
b) bushfire-resisting timber	
7.5.2 Windows Window assemblies shall comply with one of the following:	
 Window assemblies shall comply with one of the following: a) They shall be completely protected by a bushfire shutter that complies with Clause 7.5.1. Or 	

b) They shall comply with the following:	
(i) Window frames and window joinery, shall be made from one of the	
following:	
(A) Bushfire-resisting timber.	
or	
(B) Metal.	
or	
(C) Metal-reinforced PVC-U. The reinforcing members shall be made	
from aluminium, stainless steel, or corrosion-resistant steel and the	
frame and the sash shall satisfy the design load, performance and	
structural strength of the member.	
(ii) Externally fitted hardware that supports the sash in its functions of	
opening and closing, shall be metal.	
opening and crosnig, shan be netal.	
(iii) Clazing shall be toughaned glass minimum 5mm	
(iii) Glazing shall be toughened glass minimum 5mm.	
(iv) Where algoing is less than 400 mm from the around on less than 400	
(iv) Where glazing is less than 400 mm from the ground or less than 400 mm should dealer administration and similar alaments or fittings	
mm above decks, carport roofs, awnings and similar elements or fittings,	
having an angle less than 18 degrees to the horizontal and extending	
more than 110 mm in width from the window frame (see Figure D3,	
Appendix D of AS3959-2009), that portion shall be screened externally	
with a screen that complies with Clause 7.5.1A.	
(v) The openable portions of windows shall be screened internally or	
externally with screens that comply with Clause 7.5.1A.	
7.5.3 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 comply with one of the following:	
a) Doors and door frames shall be protected by a bushfire shutter	
that complies with Clause 7.5.1.	
or	
b) Doors and door frames shall be completely protected externally	
by screens that comply with Clause 7.5.1A.	
or	
c) They shall comply with the following:	
c) They shall comply with the following.	
(i) Doors shall be—	
(A) non-combustible; or	
(B) a solid timber door, having a minimum thickness of 35 mm	
for the first 400 mm above the threshold: or	
for the first 400 mm above the threshold; or	
(C) a door, including a hollow core door, protected externally	
(C) a door, including a hollow core door, protected externally by a screen that complies with Clause 7.5.1A; or	
(C) a door, including a hollow core door, protected externally by a screen that complies with Clause 7.5.1A; or(D) a fully framed glazed door, where the framing is made	
(C) a door, including a hollow core door, protected externally by a screen that complies with Clause 7.5.1A; or(D) a fully framed glazed door, where the framing is made from non-combustible materials or from bushfire-resisting	
(C) a door, including a hollow core door, protected externally by a screen that complies with Clause 7.5.1A; or(D) a fully framed glazed door, where the framing is made	
(C) a door, including a hollow core door, protected externally by a screen that complies with Clause 7.5.1A; or(D) a fully framed glazed door, where the framing is made from non-combustible materials or from bushfire-resisting timber.	
 (C) a door, including a hollow core door, protected externally by a screen that complies with Clause 7.5.1A; or (D) a fully framed glazed door, where the framing is made from non-combustible materials or from bushfire-resisting timber. (i) Externally fitted hardware that supports the panel in it 	
(C) a door, including a hollow core door, protected externally by a screen that complies with Clause 7.5.1A; or(D) a fully framed glazed door, where the framing is made from non-combustible materials or from bushfire-resisting timber.	
 (C) a door, including a hollow core door, protected externally by a screen that complies with Clause 7.5.1A; or (D) a fully framed glazed door, where the framing is made from non-combustible materials or from bushfire-resisting timber. (i) Externally fitted hardware that supports the panel in it 	

(ii) Where doors incorporate glazing, the glazing shall be toughened glass minimum 6mm.	
(iii) Where glazing is less than 400 mm from the ground or less than 400 mm above decks, carport roofs, awnings and similar elements or fittings having an angle less than 18 degrees to the horizontal and extending more than 110 mm in width from the door (see Figure D3, Appendix D, AS3959-2009), that portion shall be screened externally with a screen that complies with Clause 7.5.1A.	
(iv) Door frames shall be made from;(a) Bushfire-resisting timber; or	
 (b) Metal; or (c) Metal-reinforced PVC-U. The reinforcing members shall be made from aluminium, stainless steel, or corrosion-resistant steel and the door assembly shall satisfy the design load, performance and structural strength of the member. (v) Doors shall be tight-fitting to the door frame and to an abutting door, if applicable. 	
(vi) Weather strips, draught excluders or draught seals shall be installed at the base of side-hung external doors.	
7.5.4 Doors—Sliding doors	
Sliding doors shall comply with one of the following: a) They shall be completely protected by a bushfire shutter that complies with Clause 7.5.1., or	
b) They shall be completely protected externally by screens that comply with Clause 7.5.1A.,	
or c) They shall comply with the following:	
 (i) Both the door frame supporting the sliding door and the frame surrounding any glazing shall be made from the following; (A) Bushfire-resisting timber; or 	
(B) Metal: or(C) Metal-reinforced PVC-U. The reinforcing members shall	
be made from aluminium, stainless steel, or corrosion- resistant steel and the door assembly shall satisfy the	
design load, performance and structural strength of the member.	
(ii) Externally fitted hardware that supports the panel in it functions of opening and closing shall be metal.(iii) Where doors incorporate glazing, the glazing shall be	
toughened glass minimum 6mm. (iv) Sliding doors shall be tight-fitting in the frames.	
7.5.5 Doors-Vehicle access doors (garage doors)	
The following apply to vehicle access doors:	
(a) The lower portion of a vehicle access door that is within 400 mm of	
the ground when the door is closed (see Figure D4, Appendix D) shall be made from—	
(i) non-combustible material;	
or	
(ii) bushfire-resisting timber;	

		1	[
	or		
	(iii) fibre-cement sheet, a minimum of 6 mm in thickness;		
	Or		
	(iv) a combination of any of Items (i), (ii) or (iii) above.		
(h) Pane	el lift, tilt doors or side-hung doors shall be fitted with suitable		
	strips, draught excluders, draught seals or guide tracks, as		
appropr	iate to the door type, with a maximum gap no greater than 3 mm.		
	er doors shall have guide tracks with a maximum gap no greater		
than 3 m	nm and shall be fitted with a nylon brush that is in contact with		
the door	r (see Figure D4, Appendix D AS3059-2009).		
(d)	Vehicle access doors shall not include ventilation slots		
	OFS (INCLUDING VERANDA AND ATTACHED		
	<u>DRT ROOFS,</u>		
PENET	TRATIONS, EAVES, FASCIAS, GABLES, GUTTERS AND		
DOWN	(PIPES)		
7.6.1 G	eneral		
	owing apply to all types of roofs and roofing systems:		
	Roof tiles, roof sheets and roof-covering accessories shall be		
a)	•		
	non-combustible.		
b)	The roof/wall junction shall be sealed, to prevent openings		
	greater than 3 mm, either by the use of 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.		
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 with a maximum aperture of 2		
1)	mm, made of corrosion-resistant steel, bronze or aluminium.		
d)	A pipe or conduit that penetrates the roof covering shall be		
	non-combustible.		
<u>7.6.2 Ti</u>	iled roofs		
Tiled ro	ofs shall be fully sarked. The sarking shall—		
a)	have a flammability index of not more than 5, when tested to		
Í	AS 1530.2;		
b)	be located on top of the roof framing, except that roof battens		
	may be fixed above the sarking;		
	cover the entire roof area including the ridge; and		
c)			
d)			
	neet roofs		
	oofs shall—		
a)	be fully sarked in accordance with Clause 7.6.2, except that		
	foil-backed insulation blankets may be installed over the		
	battens; or		
b)	have any gaps greater than 3 mm under corrugations or ribs of		
	sheet roofing and between roof components sealed at the fascia		
	or wall line and at valleys, hips and ridges by—		
	(i) a mesh or perforated sheet with a maximum aperture of 2		
	mm, made of corrosion-resistant steel, bronze or aluminium; or		
	(ii) mineral wool; or		
	(iii) other non-combustible material; or		
	(iv) a combination of any of Items (i), (ii) or (iii) above.		

7.6.4 Varanda cornert and awning reaf	
7.6.4 Veranda, carport and awning roofs The following apply to veranda, carport and awning roofs:	
The following apply to veralida, carport and awning roots:	
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 7.6.1, 7.6.2, 7.6.3, 7.6.5 and 7.6.6.	
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, AS3959-2009] complying with Clause 7.4 shall have a non-combustible roof covering and the support structure	
shall be: (i) Of non-combustible material: or	
(ii) Bushfire-resisting timber; or	
(iii) Timber rafters lines on the underside with fibre-cement sheeting a minimum of 6mm in thickness, or with material complying with AS1530.8.1; or	
(iv) A combination of any items (i), (ii) or (iii) above.	
7.6.5 Roof penetrations	
The following apply to roof penetrations:	
(a) Roof penetrations, including roof lights, roof ventilators, roof- mounted evaporative cooling units, aerials, vent pipes and supports for solar collectors shall be adequately sealed at the roof to prevent gaps greater than 3 mm. The material used to seal the penetration shall be non-combustible.	
(b) Openings in vented roof lights, roof ventilators or vent pipes shall be fitted with ember guards made from a mesh or perforated sheet with a maximum aperture of 2 mm, made of corrosion-resistant steel, bronze or aluminium.	
The requirements of item (b) does not apply to the exhaust flues of heating or cooking devices with closed combustion chambers.	
In the case of gas appliance flues, ember guards shall not be fitted.	
NOTE: Gasfitters are required to provide a metal flue pipe above the roof and terminate with a certified gas flue cowl complying with AS 4566. Advice may be obtained from State gas technical regulators.	
(c) All overhead glazing shall be Grade A safety glass complying with AS 1288.	
(d) Glazed elements in roof lights and skylights may be of polymer, provided a Grade A safety glass diffuser, complying with AS 1288, is installed under the glazing. Where glazing is an insulating glazing unit (IGU), Grade A toughened safety glass of minimum 4 mm in thickness shall be used in the outer pane of the IGU.	
(e) Flashing elements of tubular skylights shall be non-combustible. However, they may be of alternative, provided the integrity of the roof covering is maintained by an under-flashing made of non-combustible material.	

 (f) Where roof lights are installed in roofs having a pitch of less than 18 degrees to the horizontal, the glazing shall be protected with ember glands made from a mesh or perforated sheet with a maximum aperture of 2 mm, made of corrosion resistant steel, bronze or aluminium. (g) Evaporative cooling units shall be fitted with non-combustible butterfy closers as close as practicable to the roof level, or the unit shall be fitted with non-combustible covers with a mesh or perforated sheet with a maximum aperture of 2 mm, made of corrosion-resistant steel, bronze or aluminium. (h) External single plane glazed elements of roof lights and skylights, where the pitch of the glazed clement is 18 degrees or less to the broizontal, shall be protected with ember guards made from a mesh or perforated sheet with a maximum aperture of 2 mm, made of corrosion resistant steel, bronze or aluminium. Z.66 Eaves linings, fascias and gables (h) Joints in eave linings, fascias and gables: (a) Joints in eave linings, fascias and gables may be sealed with plastic joining strips or timber storm moulds (b) Gables shall comply with Clause 7.4. (c) Fascias and bargeboards shall: (d) Where finder from metal, be fixed at 450mm centres; or (ii) Where from from tend, be fixed at 450mm centres; or (iii) Be a combination of Items (i) and (ii) above. (d) Eave linings shall be protected the same as for roof penetrations, as specified in Clause 7.6.5. (f) Eaves yenetrations shall be protected the same as for roof penetrations, as specified in Clause 7.6.5. (f) Eaves venilation openings greater than 3 mm shall be fitted with here gray and ef ono-combustible material or a mesh or perforated sheet with a maximum aperture of 2 mm, made of corrosion-resistant steel, bronze or aluminium. 		
butterfly closers as close as practicable to the roof level, or the unit shall be fitted with non-combustible covers with a mesh or perforated sheet with a maximum aperture of 2 mm, made of corrosion-resistant steel, bronzer or aluminium. (h) External single plane glazed element is 18 degrees or less to the horizontal, shall be protected with ember guards made from a mesh or perforated sheet with a maximum aperture of 2 mm, made of corrosion resistant steel, bronze or aluminium. 7.66 Eaves linings, fascias and gables The following apply to eaves limings, fascias and gables: (a) Joints in eave linings, fascias and gables may be sealed with plastic joining strips or timber storm moulds (b) Gables shall comply with Clause 7.4. (c) Fascias and bargeboards shall; (i) Where insued, be made from bushfire resisting timber; or (ii) Where made from metal, be fixed at 450mm centres; or (iii) Be a combination of Items (i) and (ii) above. (c) Eaves penetrations shall be protected the same as for roof penetrations, as specified in Clause 7.6.5. (f) Eaves ventilation openings greater than 3 mm shall be fitted with ember guards made of non-combustible material or a mesh or perforated sheet with a maximum aperture of 2 mm, made of corrosion-resistant steel, bronze or aluminium. 7.6.7 Gutters and downpipes This Standard does not provide construction specific material requirements	degrees to the horizontal, the glazing shall be protected with ember guards made from a mesh or perforated sheet with a maximum aperture	
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 7.7 VERANDAS, DECKS, STEPS, RAMPS AND LANDINGS 7.7.1 General Decking may be spaced. There is no requirement to enclose the subfloor spaces of verandas, decks, steps, ramps or landings. 7.7.2 Enclosed subfloor spaces of verandas, decks, steps, ramps and landings 7.7.2.1 Materials to enclose a subfloor space The subfloor spaces of verandas, decks, steps, ramps and landings are considered to be 'enclosed' when — a) the material used to enclose the subfloor space complies with Clause 7.4, except that sarking is not required where specified in Clause 7.4.1 (c) and b) all openings greater than 3 mm are screened with a mesh or performed short with a meximum enertwar of 2 mm meda of
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b) all openings greater than 3 mm are screened with a mesh or
perforated sheet with a maximum aperture of 2 mm, made of
corrosion-resistant steel, bronze or aluminium.
7.7.2.2 Supports This Standard does not provide construction requirements for support
This Standard does not provide construction requirements for support posts, columns, stumps, stringers, piers and poles.
7.7.2.3 Framing
This Standard does not provide construction requirements for the
framing of verandas, decks, ramps or landings (i.e., bearers and joists).
7.7.2.4 Decking, stair treads and the trafficable surfaces of ramps
and landings
Decking, stair treads and the trafficable surfaces of ramps and landings
shall be—
a) of non-combustible material; or
b) of bushfire-resisting timber; or
c) a combination of Items (a) and (b) above.
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7.7.3 Unenclosed subfloor spaces of verandas, decks, steps, ramps and landings
7.7.3.1 Supports
Support posts, columns, stumps, stringers, piers and poles shall be—
a) of non-combustible material; or
b) of bushfire-resisting timber (see Appendix F); or
c) a combination of Items (a) and (b) above.
7.7.3.2 Framing
Framing of verandas, decks, ramps or landings (i.e., bearers and joists)
shall be—
a) of non-combustible material; or b) of hushfine resisting timber (see Arnordin F); or
b) of bushfire-resisting timber (see Appendix F); or
c) a combination of Items (a) and (b) above.
7.7.3.3 Decking, stair treads and the trafficable surfaces of ramps
and landings
Decking, stair treads and the trafficable surfaces of ramps and landings
shall be—
a) of non-combustible material; or
b) of bushfire-resisting timber (see Appendix F); or
c) a combination of Items (a) and (b) above.

 7.7.4 Balustrades, handrails or other barriers Those parts of the handrails and balustrades less than 125 mm from any glazing or any combustible wall shall be— a) of non-combustible material; or b) bushfire-resisting timber (see Appendix F); or c) a combination of Items (i) and (ii) above. Those parts of the handrails and balustrades that are 125 mm or more 	
Those parts of the handrails and balustrades that are 125 mm or more <i>from the building have no requirements.</i> "	
<u>7.8 WATER AND GAS SUPPLY PIPES</u> Above-ground, exposed water and gas supply pipes shall be metal.	

I, of sincerely declare that all new construction is in accordance with relevant specifications of AS3959-2009 and Addendum to Appendix 3 of *Planning for Bushfire Protection 2006* as stated above.

Signed: