Building Element		BAL-LOW	BAL-12.5	BAL-19	BAL-29	BAL-40	BAL-FZ
	Tiled	NR	Fully sarked (Flammability index not more     Installed directly below tile battens     Must cover entire roof area including ridge	System complies with AS1530.8.2 when tested from the outside, or     Having an FRL of 30/30/30 or - /30/30 when tested from the			
Roof	Sheet	NR	Fully sarked (Flammability index not more Foil-backed insulation blankets may be ins Gaps greater than 3 mm to be sealed with a) Mesh with a max 2 mm aperture mab) Mineral wool, or  c) Other non-combustible material	outside  (NOTE: Testing of roof systems is currently being undertaken as there are no known systems that comply at present for use with any building material.)			
Fascia & bargeboards		NR	NR	NR	Bushfire-resisting timber     Metal fixed at 450 mm centres	Complying with AS1530.8.1	Complying with AS1530.8.2
Eaves linings		NR	NR	NR	4.5 mm fibre cement     Bushfire-resisting timber	6 mm fibre cement     6 mm calcium silicate	• FRL - /30/30, <i>or</i> • Complying with AS1530.8.2
Windows		NR	Behind bushfire shutters – NR, or Behind screens- NR, or Less than 400 mm off horz surface Frames a) Bushfire-resisting timber or b) Timber species from E2 or Glazing: 4 mm Grade A safety and openable part screened Greater than 400 mm off horiz surface – annealed glass screens to all parts of window	Behind bushfire shutters – NR, or Behind screens- NR, or Less than 400 mm off horz surface Frames a) Bushfire-resisting timber or b) Timber species from E2 or Glazing: <u>5 mm</u> toughened glass and openable part screened Greater than 400 mm off horiz surface – annealed glass screens to all parts of window	Behind bushfire shutters – NR, or Windows Glazing: a) 5 mm toughened glass and if less than 400 mm from a horizontal surface, screened b) Openable part to be screened Frames – Bushfire-resisting timber	Behind non-combustible bushfire shutters – NR, or Window Glazing – 5 mm toughened glass Screens to all parts of window Frames – metal Seals - Flam Index 5	Behind bushfire shutters (shutters complying with AS1530.8.2 when tested from the outside) - NR, or Window system having FRL 0f - /30/ - and openable part of window screened, or Window system complying with AS1530.8.2 and the openable part of the window screened
External Doors	Side hung	NR	Behind bushfire shutters – NR, or Behind screens- NR, or Unglazed Door Joinery a) Non-combustible or b) Solid having min. thickness of 35 mm for the lower 400 mm or c) Hollow core with a non- combustible kickplate for the lower 400mm Glazed door Glazing: as per windows Joinery less than 400 mm from a horizontal surface: a) Bushfire-resisting timber or b) Timber species from E2 Joinery greater than 400 mm from a horizontal surface - NR Door jambs Less than 400 mm from a horizontal surface a) Bushfire-resisting timber or b) Timber species from E2 Greater than 400 mm from a horizontal surface a) Bushfire-resisting timber or b) Timber species from E2 Greater than 400 mm from a horizontal surface a) Bushfire-resisting timber or b) Timber species from E2 Greater than 400 mm from a horizontal surface - NR	Behind bushfire shutters – NR, or Behind screens- NR, or Unglazed Door Joinery a) Non-combustible or b) Solid having min. thickness of 35 mm for the lower 400 mm or c) Hollow core with a non- combustible kickplate for the lower 400mm Glazed door Glazing: as per windows Joinery less than 400 mm from a horizontal surface a) Bushfire-resisting timber or b) Timber species from E2 Joinery greater than 400 mm from a horizontal surface - NR Door jambs Less than 400 mm from a horizontal surface a) Bushfire-resisting timber or b) Timber species from E2 Greater than 400 mm from a horizontal surface a) Bushfire-resisting timber or b) Timber species from E2 Greater than 400 mm from a	Behind bushfire shutters – NR, or Behind screens- NR, or Unglazed Door Joinery  a) Non-combustible, or b) Solid timber having min. thickness of 35 mm, or Glazed door Glazing: 5 mm toughen glass, lower 400 mm screened with a mesh Joinery - Bushfire-resisting timber Door jambs - Bushfire-resisting timber	Behind non-combustible bushfire shutters – NR, or Unglazed Door Joinery a) Non-combustible, or b) Solid timber having min. thickness of 35 mm, with lower 400 mm screened with a mesh or Glazed Joinery, Non-combustible Glazing:- 6 mm toughened glass with lower 400 mm screened with a mesh boor jambs - Metal Seals - Silicone	Behind bushfire shutters (shutters complying with AS1530.8.2 when tested from the outside) – NR, or Door system having FRL 0f - /30/ -, or Door system complying with AS1530.8.2  (Note: seals are not to compromise performance)
	Sliding door	NR	Behind bushfire shutters – NR, or Behind screens – NR, or Glazed door – Grade A safety glass Joinery less than 400 mm from a horizontal surface a) Bushfire-resisting timber or b) Timber species from E1 Joinery greater than 400 mm from a horizontal surface – NR	Behind bushfire shutters – NR, or Behind screens – NR, or Glazed door – 5mm toughened glass Joinery less than 400 mm from a horizontal surface a) Bushfire-resisting timber or b) Timber species from E1 Joinery greater than 400 mm from a horizontal surface – NR	Behind bushfire shutters – NR, or Behind screens– NR, or Glazed door Glazing: 6 mm toughen glass Doorframes:- Bushfire-resisting timber	Behind bushfire shutters – NR, or Glazed door Glazing: FRL - /30/ -, or 6 mm toughened glass behind screens to all parts of door Doorframes – metal Seals - Silicone	Behind bushfire shutters (shutters complying with AS1530.8.2 when tested from the outside) – NR, or Door system having FRL 0f - /30/ -, or Door system complying with AS1530.8.2

NR - No requirement.

Note: Construction requirements required for a higher BAL can be used for a lower BAL e.g. BAL-40 requirements can be used in BAL-19.

Building Element		BAL-LOW	BAL-12.5	BAL-19	BAL-29	BAL-40	BAL-FZ	
External Walls	Cladding	adding Light- weight NR		Any cladding within 400 mm from a horz surface :- a) Non-combustible material <i>or</i> b) Fibre-cement min 6mm thick <i>or</i> c) Bushfire-resisting timber <i>or</i> d) Timber species listed in E1		Fibre-cement min 6mm thick <i>or</i> steel sheet <i>or</i> bushfire-resisting timber	Fibre-cement min 9 mm thick <i>or</i> steel sheet <i>or</i> a system complying with AS1530.8.1	A system complying with AS1530.8.2 when tested from outside, or A system with an FRL of 30/30/30 or -/30/30 when tested from outside
		Brick	NR	NR	NR	NR	NR	NR
	Framing members		NR	NR	NR	NR	NR	NR
	Enclosed+		NR	NR	NR	NR (includes mesh walls)	NR	NR
Floors (bearers, joists, flooring)	Unenclosed	i	NR	NR	NR	Flooring materials less than 400 mm     a) non-combustible     b) bushfire-resisting timber, or     c) particleboard or plywood flooring     the underside lined with sarking or     mineral wool insulation     Flooring material greater than or equal     to 400 mm – NR	Flooring material     a) non-combustible, or     b) Timber flooring members must have the underside lined with a non-combustible materials (eg fibre cement or metal sheet), or     c) complying with AS1530.8.1	<ul> <li>FRL of at least 30/30/30 and non-combustible surface material, or</li> <li>Underside of combustible floor system protected with a 30 min resistant to incipient spread of fire system or</li> <li>Complying with AS1530.8.2 when tested from the outside</li> </ul>
Sub-floor	Enclosed+		NR	NR	NR	NR	NR	NR
(posts, stumps, columns, etc)	Unenclosed	I	NR	NR	NR	Non-combustible material <i>or</i> Bushfire-resisting timber	Non-combustible material, or     Complying with AS1530.8.1	FRL of at least 30/-/- and non-combustible, or     Complying with AS1530.8.2
Decks, steps, ramps and landings	Enclosed+ NR			Wall enclosing sub-floor deck space first 400 mm from a horizontal surface is to be the same as for walls above Supports – NR Framing – NR Decking – less than 300 mm from glazed element is to be a) Non-combustible b) Bushfire resisting timber c) Timber species from E1		Walls enclosing subfloor deck space:	Walls enclosing subfloor deck space:-	Walls enclosing subfloor deck space:
	Unenclosec	Supports – NR     Framing – NR     Decking – less than 300 mm from glazed elements is to be     a) Non-combustible     b) Bushfire resisting timber     c) Timber species from E1		lements is to be	Supports – a) Non-combustible b) Bushfire resisting timber Framing – a) Non-combustible b) Bushfire resisting timber Decking - a) Non-combustible b) Bushfire resisting timber	Supports – a) Non-combustible b) Complying with AS1530.8.1 Framing – a) Non-combustible b) Complying with AS1530.8.1 Decking - a) Non-combustible b) Complying with AS1530.8.1	Supports – a) Non-combustible b) Complying with AS1530.8.2 Framing – a) Non-combustible b) Complying with AS1530.8.2 Decking - a) Non-combustible, or b) Fibre cement sheets, or c) Complying with AS1530.8.2	
Balustrades, handrails			NR	NR	NR	Greater than 125 mm from glazing or combustible wall or 0 mm from non- combustible wall – NR Less than or equal to 125 mm from glazing or combustible wall to be non- combustible or bushfire resisting timber	Greater than 125 mm from glazing or combustible wall or 0 mm from non- combustible wall – NR Less than or equal to 125 mm from glazing or combustible wall to be non- combustible	Greater than 125 mm from glazing or combustible wall or 0 mm from non- combustible wall – NR Less than or equal to 125 mm from glazing or combustible wall to be non- combustible

NR - No requirement.

Note: Construction requirements required for a higher BAL can be used for a lower BAL e.g. BAL-40 requirements can be used in BAL-19.

Building with Timber – Construction requirements for Bushfire Attack Levels as per AS3959-2009 *Construction of buildings in bushfire prone areas* (This summary of timber requirements, extracted from AS3959-2009, does not cover all aspects of AS3959 which should be referred to when designing and specifying to the standard.)

<sup>+</sup> Wall enclosing sub-floor space to be of the same construction as for external walls.