

Skylights - Roof Penetration Compliance for Bushfire Zones

According to AS 3959 there are 6 bushfire attack levels in total or BAL for short.

1- BAL-Flame Zone	2- BAL-40	3- BAL-29
4- BAL-19	5- BAL-12.5	6- BAL-Low

According to AS 3959 Performance Requirement P2.3.4 is satisfied for a Class 1 building located in a designated bushfire prone area as defined under relevant State and Territory legislation, if it is constructed in accordance with AS 3959 – **Please note that 3.7.4.0 is replaced in South Australia**

Roof penetrations compliance from BAL-Low to BAL-29 as per AS3959 (NOTE : N/A to BAL-40 & FZ)	SolarBright bush fire kit Specifications
(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.	SolarBright products are supplied with fire rated sealant which must be used to seal any 3mm gaps or greater.
(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.	N/A SolarBright supplies non vented products only to comply with standard.
(c) All overhead glazing shall be Grade A safety glass complying with AS 1288.	N/A SolarBright does not manufacture roof windows
(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 minimum 4mm thickness, shall be used in the outer pane of the IGU.	SolarBright product is supplied with toughened wired safety glass greater than 4mm
(e) Flashing elements of tubular skylights shall be non-combustible.	SolarBright product is supplied with metal roof flashing to comply with the standard.
(f) (BAL-29 Only) - External single plane glazed elements of roof lights and skylights, where the pitch of the 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 2mm, made of corrosion-resistant steel, bronze or aluminium.	- N/A for BAL-Low, 12.5 & 19 zones. - N/A for roof pitch greater than 18 degrees in BAL-29 zone. - For 18 degrees roof pitch or less in BAL-29 zone an extra ember guard made of a mesh or perforated sheet must be used as per AS 3959 (Not supplied by SolarBright).
<p>Important</p> <p>Bal 40 & Flame zone are not covered in the above points Customer's to seek independent consultants when selecting products Customers o refer to states and territories variations in reference to AS3959</p>	