

no fire

Bushfire safety is the winner with our BAL-FZ and BAL-40 windows, doors and shutters



Many Australians love living in a bush setting but have to constantly cope with the threat of bushfires. In addition, new strict Building Regulations for building or renovating in bushfire hazard designated BAL zones have put many conditions on all aspects of the external built environment.

After exhaustive testing, Paarhammer has obtained approval for its special fire resistant windows and doors. As such, Paarhammer is the first company in Australia to receive approval for BAL-40 and even BAL-FZ windows and doors.



Paarhammer's new bushfire Flame Zone approved BAL-FZ windows and doors make it possible to combine aesthetics and design freedom with safety in the highest bushfire prone areas. Tilt & turn windows, fixed glass units, hinged doors, French doors and sliding doors are available.

Whatever your rating you can trust Paarhammer to provide you with windows and doors that will perform like no other.



Australia's first Flame Zone approved windows and doors

Fire safety and risk testing to AS 3959-2009 and AS 1530.8.2 was conducted by NATA accredited Exova Warringtonfire Melbourne and the Paarhammer timber windows and doors passed beyond all expectations. In the gruelling 1 1/2 hour test temperatures exceeded 850 degrees Celsius.



Astonishing Result

Simulating the highest level of bushfire outside, the inside of the window and weather seals showed no signs of the raging fire and heat of the test. The hinging mechanism worked after the test just as smooth as before.

Radiated heat through the window did not exceed 6kW, which is less than half of the 15kW allowed by the Australian Standard AS3959-2009 and AS1530.8.2. This is in part also due to the choice of fire rated Pyranova® glass by Schott. Test reports available on request.

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Five bushfire hazard levels

Australia's bushfire-prone areas have been classified into the following Bushfire Attack Levels (BAL):

- BAL-12.5: Low
- BAL-19: Moderate
- BAL-29: High
- BAL-40: Very high
- BAL-FZ: Flame Zone



To obtain a BAL rating for your home or for building in your area, consult your local council, government or local fire authority.

Ability to save Life

Paarhammer has achieved what most experts thought impossible: high quality windows and doors that can withstand ravaging bushfires of all BAL Zones without the need for screens and shutters... and they are made in timber. The timber used is Red Ironbark, grown locally.

This means that home owners can now live in the highest bushfire attack level areas with all the benefits of Paarhammer's superior energy savings and security. These bushfire window and door products give peace of mind without compromising on design and energy-rating.



after the test outside



close up



after the test inside

Bushfire shutters

Paarhammer's affiliate company Sonnenschutz also manufacture a range of Shade&Shield shutters that comply with BAL 29, BAL 40 and BAL FZ standards or just simply to provide shade from the harsh Australian sun.



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