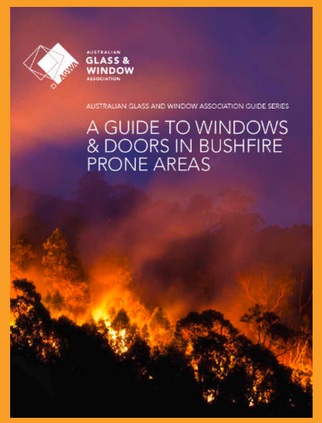
Kömmerling®



An excellent guide to the requirements of windows and doors in bushfire prone areas can be found in the Australian Glass and Window Associations document, 'A Guide To Windows & Doors In Bushfire Prone Areas'

https://awa.associationonline.com.au/documents/item/236

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Kömmerling®
TODAY FOR TOMORROW

Kömmerling Bushfire Rated uPVC Window & Door Systems

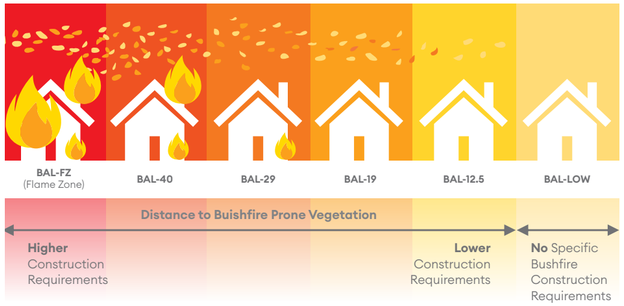
FIRE PROTECTION

BUILDING IN BUSHFIRE PRONE AREAS

The construction requirements for buildings being designed and built in bushfire prone areas is outlined in the Australian Standard AS 3959:2018. When bushfire attack on a building occurs, there are 3 key elements which need to be protected against:

- **Burning embers**
- **Radiant heat**
- **Direct flame contact**

Each element can attack a building individually or in conjunction with each other. The standard defines a number of different building requirements and window/door make-up's needed which are in turn contingent on the defined level of bushfire attack, or BAL.



There are 6 different Bushfire Attack Levels; Low, 12.5, 19, 29, 40 and Flamezone, or FZ. These different requirements are designed to help protect both the individuals within the building and also the building itself.

PROVIDING A WINDOW AND DOOR SOLUTION TO AS 3959:2018

Compliance to the building requirements for each BAL set out in AS3959:2018 can be satisfied by either

- Meeting particular Deemed to Satisfy (DTS) requirements
- Achieving the required level of performance by testing to AS 1530.8.1. Within this testing protocol, successfully testing to BAL 40 also allows for that particular solution to be applied to buildings in BAL's Low – 29, but not FZ as the extreme nature of the bushfire in Flamezone requires a separate test procedure.

THE KÖMMERLING SOLUTION

FIRE PROTECTION

Kömmerling first successfully tested a range of uPVC window and door systems to BAL 40 in 2010 and has subsequently had the results independently assessed and updated to bring the results in line with the requirements of AS3959:2018.

As a result, we have a range of bushfire resistant fixed and opening windows, hinged doors and PremiDoor Lift & Slide systems suitable for installation in buildings required to meet BAL Low, 12.5, 19, 29 and 40 ratings.

Selecting windows and doors which have been fabricated and installed using high performance Kömmerling uPVC profiles doesn't just mean selecting systems which have been tested, certified and assessed by one of the World's leading independent bushfire testing establishments to help protect you in case of bushfire attack, it also means you are selecting uPVC systems which provide superior protection from unwanted noise and UV degradation as well as providing outstanding levels of energy efficiency, condensation control and internal comfort all year round.

weatherproof | colourfast | sound insulation | stability | energy efficient

The Kömmerling range of uPVC profiles used to fabricate windows and doors for BAL 40 rated applications has also been successfully accredited and certified under the Vinyl Council of Australia's Industry Code of Practice (ICP).

The ICP sets defined and very strict targets for profile composition, weathering resistance, colour and strength requirements, so it's re-assuring to know that the Kömmerling windows and doors which have been installed to protect you during a bushfire, will not fade, crack or warp during everyday use; crucially important when one considers that Australia has the highest level of solar radiation per square metre of land of any continent.

Whether it's for a new build or refurbishment project, our European manufactured and locally stocked uPVC profiles are expertly fabricated into windows and doors across Australia by our network of Kömmerling Window fabricators. This ensures one of the highest quality and highest overall performing bushfire resistant window and door systems currently available.

Exposed (Outer) face of a Kömmerling PremiDoor after a BAL 40 AS 1530.8.1 Bushfire Resistance Test

Unexposed (Inner) face of a Kömmerling PremiDoor after a BAL 40 AS 1530.8.1 Bushfire Resistance Test