



FIRE

INFORMATION

ARCHITECTURAL HARDWOOD DECKING, CLADDING & CEILING SYSTEMS



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TIMBER GROUP RATING

All untreated timber achieves a Group 3 rating according to the requirements of AS/NZS 3837-1998 and AS 5637.1-2015 for use as wall and ceiling linings, as per NCC 2019 (Volume 1)

Download Group Rating Report at: <https://www.mortlock.com.au/wp-content/uploads/2019/11/RIR-45980.10.pdf>

For timber that requires Group 1 fire rating, see fireshield coating.

TIMBER BAL RATING

Bushfire Attack Level (BAL) is a means of measuring the severity of a building's potential exposure to ember attack, radiant heat, and direct flame contact. It is measured in increments of radiant heat. BAL rating for timber is based on the density of the timber, further information on Timber and building in BAL rated areas can be found at: <https://www.woodsolutions.com.au/articles/construction-bushfire-prone-areas>

FIRESHIELD COATING

Fireshield TIMBERCLEAR 1FR clear timber intumescent coating is a factory applied coating that achieves a Group 1 and 2 fire rating to internal timber surfaces to meet the requirements of the NCC with the Codemark Certificate of Conformity. TIMBERCLEAR 1FR can only be used on internal surfaces. Timber without TIMBERCLEAR 1FR coating will only meet Group 3 fire rating. TIMBERCLEAR 1FR is only available for projects of a certain size depending on product. For the Fireshield TIMBERCLEAR 1FR certificate please contact Mortlock Timber.

TIMBER SPECIES FIRE DATA

TIMBER SPECIES	BAL RATING	GROUP RATING UNTREATED TIMBER	GROUP RATING TIMBER PRECOATED WITH FIRE SHIELD*
American White Oak	Non-BAL Compliant	Group 3	Group 1
Blackbutt	BAL 12.5, 19 & 29	Group 3	Group 1
Burnt Ash	Non-BAL Compliant	Group 3	Group 1
Ironbark	BAL 12.5, 19 & 29	Group 3	Group 1
Jarrah	BAL 12.5 & 19	Group 3	Group 1
Pacific Teak	BAL 12.5 & 19	Group 3	Group 1
Spotted Gum	BAL 12.5, 19 & 29	Group 3	Group 1

* Depends on project and product used, consult Mortlock Timber prior specifying. Fireshield can only be used for internal applications, it does not suit applications exposed to the weather.

Note: It is our responsibility to provide the available supporting documentation our products, not to approve that products meet standards and requirements for your project. It is the building surveyor or fire engineer's responsibility to provide final approval based on the information provided that our product will meet the relevant standards and requirements for your project.



PROPLANK TIMBER BATTENS

WHERE GROUP 1 FIRE RATING IS REQUIRED.

TIMBER CEILINGS

Timber battens to ceilings require Fireshield Coating to the three exposed sides of the timber batten.

Where acoustic backing is used, this must also meet Group 1. Mortlock Timber can supply Group 1 fire rated acoustic backing.

All other Proplank Components are Group 1 fire rated; any components used that are not supplied by Mortlock Timber must be approved by a certified fire engineer.

EXAMPLE SPECIFICATION

EXAMPLE SPECIFICATION	
Product Name	Proplank Timber Batten Lining System
Application	Ceiling
Timber Species	Spotted Gum
Finish	Fireshield TIMBERCLEAR 1FR
Batten Size & Shape	30×30 Block Profile
Spacing Between Battens	15mm
Acoustic Backing	9mm Black Group 1 Fire rated Acoustic Backing
Fire Requirements	Group 1
Contact	Mortlock Timber Group 1800 894 400 info@mortlock.com.au www.mortlock.com.au

TIMBER WALLS

Timber battens to walls require Fireshield Coating to all four sides of the timber batten.

Where acoustic backing is used, this must also meet Group 1. Mortlock Timber can supply Group 1 fire rated acoustic backing.

All other Proplank Components are Group 1 fire rated; any components used that are not supplied by Mortlock Timber must be approved by a certified fire engineer.

EXAMPLE SPECIFICATION

EXAMPLE SPECIFICATION	
Product Name	Proplank Timber Batten Lining System
Application	Wall
Timber Species	Spotted Gum
Finish	Fireshield TIMBERCLEAR 1FR
Batten Size & Shape	30×30 Block Profile
Spacing Between Battens	15mm
Acoustic Backing	9mm Black Group 1 Fire rated Acoustic Backing
Fire Requirements	Group 1
Contact	Mortlock Timber Group 1800 894 400 info@mortlock.com.au www.mortlock.com.au



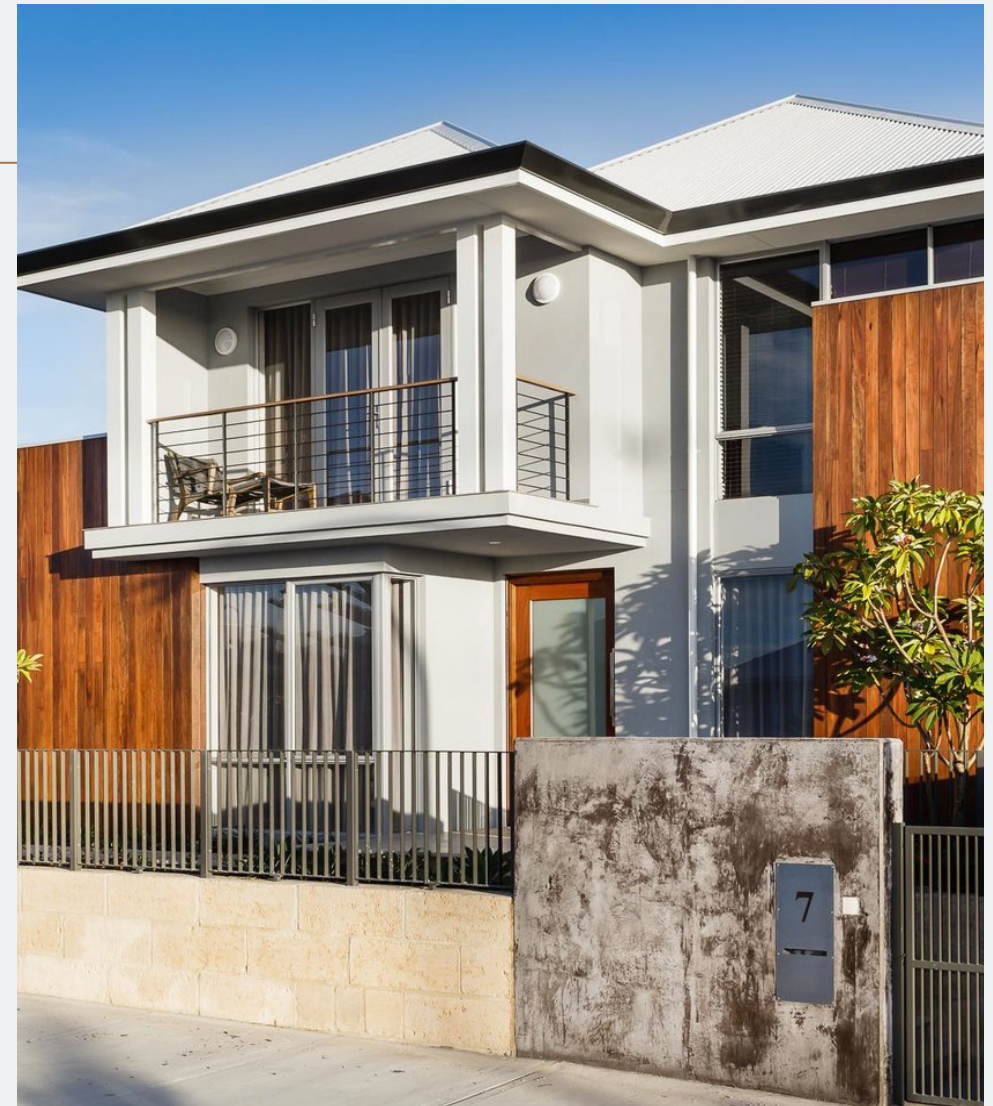
TRENDPLANK TIMBER CLADDING

WHERE GROUP 1 FIRE RATING IS REQUIRED.

For both timber walls and ceilings Trendplank Timber Cladding require Fireshield to the exposed face.

EXAMPLE SPECIFICATION

EXAMPLE SPECIFICATION	
Product Name	Trendplank Timber Cladding
Application	Ceiling
Timber Species	Spotted Gum
Finish	Fireshield TIMBERCLEAR 1FR
Batten Size & Shape	120x18
Fire Requirements	Group 1
Contact	Mortlock Timber Group 1800 894 400 info@mortlock.com.au www.mortlock.com.au





USING TIMBER BAL RATED AREAS

BUSHFIRE ATTACK LEVEL RATINGS

BAL-LOW	Standard construction materials and methods, including timber framing and cladding materials can be used. These sites have no special requirements as there is such a low risk of bushfire attack.
BAL-12.5	Some possibility of ember attack has been identified from looking at the closeness of vegetation, the site itself and local conditions with construction elements expected to be exposed to a radiant heat flux not greater than 12.5 kilowatts per square metre (kW/m ²).
BAL-19	Sites identified as having an increasing level of predicted ember attack and burning debris ignited by wind-borne embers together with an increasing radiant heat flux, not greater than 19 kW/m ² .
BAL-29	Increasing level of chance of ember attack and burning debris ignited by wind-borne embers, together with an increasing radiant heat flux not greater than 29 kW/m ² .
BAL-40	Further possibility of ember attack and burning debris ignited by wind-borne embers; together with an increasing radiant heat flux, not greater than 40 kW/m ² , and an increased likelihood of exposure to bushfire flames.
BAL-FZ	Extremely bushfire-prone, probably in a picturesque bushland setting, a home with this BAL has a predicted direct exposure risk to flames from a fire front, ember attack and a radiant heat flux greater than 40 kW/m ² .

This information on the six levels is based on Appendix G of AS 3959. This information is sourced from Wood Solutions Guide #04, link to this document is at the end of this article.

Determining the level of risk for the property requires an assessment from an accredited BAL assessor that is local to the area.

Further information can be found at the following links:

Wood Solutions Guide #04

<https://www.mortlock.com.au/wp-content/uploads/2020/05/Wood-Solutions-Building-with-Timber-in-Bushfire-prone-Areas.pdf>

Using timber in high risk Bushfire Attack Level (BAL) areas requires the timber cladding or decking to meet the rating for your property. Timbers rated for BAL are shown in timber species fire data on page 2.

Determining the BAL risk for a property requires an assessment from an accredited BAL assessor in your local area. Plans, material specifications, construction documents and building methods need to be in accord with the bush fire attack level listed in that assessment.

Quick Link:

Timber Cladding in Bushfire areas

<https://www.mortlock.com.au/building-with-timber-in-bushfire-areas/>

DESIGN & INSTALLATION CONSULTING

Our team can work through detailing and specification requirements to meet specific project requirements. We can assist with budget management without compromising aesthetics and ensure our products perform with an extended life cycle.

SAMPLES

Mortlock Timber Group samples department is stocked with our full range. We use express delivery service and generally deliver samples to your door within 2-3 days. Custom samples and sample boards can take 3-6 weeks depending on requirements.



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