



## ***Fire Retardant MDF*** **ABOUT & APPLICATIONS**

### **Fire Hazard Group Number 2 - Raw Flameblock®**

FLAMEBLOCK® FRMDF is a high density FRMDF that is fire retardant all the way through. It has a fine sanded surface and a screwable core, and comes in natural pale brown colour and black, with some thicknesses only being available in pink. In the raw/painted form 12mm and thicker, Flameblock is certified to reach **Fire Hazard Group 2** for interior walls and ceilings.

### **Fire Hazard Group Number 2 - Veneered Flameblock**

With natural, dyed and reconstituted veneers of density 755kg/m<sup>3</sup> and less, FLAMEBLOCK FRMDF 12mm and thicker is certified to reach BCA Fire Hazard Group 2.

Note: High density veneers such as Blackbutt, Spotted Gum, Ironbark, Jarrah, Marri, Stringybark, Sydney Blue Gum, Tallow-wood etc., are only Group 3 on MDF or Flameblock FRMDF.

### **Fire Compliance to the National Construction Code**

These Fire Hazard Group Number tests and assessments were done according to AS 5637 using ISO 9705 Room Burn Tests, as required under the [National Construction Code \(NCC\) 2019 Building Code of Australia, Volume 1, Specification C1.10, Section 4 - Wall and Ceiling Linings](#). This section of the NCC also covers lift cars. Flameblock is not rated for use in other areas of buildings that may require fire-retardancy such as doors, around fireplaces, etc. Nor is it rated as "non-combustible". Also, panels which have been modified such as with acoustic slotting or multi-layered Flameblock (sheets of Flameblock FRMDF glued together) are not covered.

Briggs fire Certificate(s)/Report(s) do not apply to FRMDF/veneers/laminates from other suppliers. They apply only to Briggs Veneers' Flameblock FRMDF/veneers/laminates and thicknesses as listed on our fire Certificate(s)/Report(s). It is the responsibility of the end user to ensure that the products used in their project are as written/described/named on these fire Certificate(s)/Report(s). Briggs Veneers does not accept any responsibility for product substitution done by others. Please do not publish Briggs fire Certificate(s)/Report(s) on any website because they are the property of Briggs Veneers and/or Warrington Fire. Briggs Veneers are not qualified to advise what Fire Hazard Group Numbers are required for your application - please seek the advice of a Fire Engineer Consultant or Building Certifier.

**Sustainability** - All FLAMEBLOCK is PEFC™ certified to be from well managed forests

### **Applications**

FLAMEBLOCK FRMDF is suitable for interior use in dry areas, such as wall and ceiling panels where fire compliance to the NCC 2019 is required for Class 2 to Class 9 Buildings. FLAMEBLOCK FRMDF should *not* be exposed to the weather, placed contact with water, nor used in places where it will be subject to condensation or damp. It should only be used where the relative humidity of the air at 20 degrees C only exceeds 65% for a few weeks per year. Raw panels should be conditioned to reach the moisture content in which they are be used.

### **Dimensional Changes**

Panel dimensions are closely related to moisture content and the humidity of the surrounding air. The most significant effect of moisture absorption by MDF is that of swelling in the thickness. When Standard MDF is exposed to changes in relative humidity, it changes in length about 0.03 - 0.06% for every 1% change in moisture content. In thickness, the panel will change by 0.3 - 0.5% for each change in moisture content.

### **Testing**

The fire retardant materials and dyes in the board may in exceptional cases affect certain glues or paints. Always perform a test before use.

*As it is not possible to cover all associated manufacturing materials and conditions, the end-user is responsible for carrying the necessary tests to check that MDF, veneer, laminate, fabrication methods and associated materials are suitable for the desired application. Briggs Veneers reserves the right to discontinue products or change prices and dimensions and other attribute of products without notice at any time.*

# BRIGGS VENEERS

## ***Black Moisture Resistant MDF***

### **ABOUT & APPLICATIONS**

#### **Fire Hazard Group Number 3**

Briggs Black MRMDF is Fire Hazard Group 3 raw and veneered. See Assessment Report [here](#).

**Sustainability** - Briggs Black MRMDF is PEFC™ certified to be from well managed forests

#### **Applications**

Briggs Black MRMDF should only be used internally, not exposed to the weather, but may be subject to occasional wetting such as humidity in bathrooms and some condensation. It should not be used in circumstances where continued wetting is likely. If the board is continually wet, degradation may occur through glue bond breakdown and fungal attack. The relative humidity of the air at 20 degrees C should only exceed 85% for a few weeks per year. Raw panels should be conditioned to reach the moisture content in which they are to be used.

#### **Dimensional Changes**

Panel dimensions are closely related to moisture content and the humidity of the surrounding air. The most significant effect of moisture absorption by MDF is that of swelling in the thickness. When Black MRMDF is exposed to changes in relative humidity, it will change in length by 0.03 - 0.06% for every 1% change in moisture content. In thickness, the panel will change by 0.03 - 0.5% for each 1% change in moisture content.

*As it is not possible to cover all associated manufacturing materials and conditions, the end-user is responsible for carrying the necessary tests to check that MDF, veneer, laminate, fabrication methods and associated materials are suitable for the desired application. Briggs Veneers reserves the right to discontinue products or change prices and dimensions and other attribute of products without notice at any time.*

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