



**Features & Benefits**

Awarded CARB NAF Exemption due to formaldehyde-free adhesive system  
 Class 1 certified MDF with performance characteristics comparable to standard MDF  
 Meets CARB ATCM 93120 Phase 2 emission limits  
 Core is dyed red for easy identification of fire retardant panel  
 FSC certified panels available upon request.

**Mill Capabilities**

Panels available in the following dimensions:  
 4' and 5' widths, lengths up to 18'  
 1/4" - 1" thicknesses

Some items may have a minimum order requirement

**Handling & Installation**

Store indoors on a flat, level surface with adequate support to prevent sagging.  
 For best results, Arreis FR should be conditioned to the final environment 48-72 hours prior to installation.  
 Readily accepts and holds hardware including staples, screws and other fasteners. It is recommended to pre-drill pilot holes not less than 1" from the edge on the face of the panel, or 2+1/2" from the corners when used in the edge of the panel before fastening with hardware.  
 Additionally, hardware should be spaced at least 6" apart to reduce the risk of splitting.

**Limitations**

Arreis FR is not suitable for external or structural applications.

**How to Specify**

Industrial Grade Medium Density Fibreboard (MDF), manufactured with a formaldehyde-free adhesive system and certified as a Class 1 Flame Retardant panel in accordance with ASTM E84-07 and CAN/ULC-S102 to a Flame Spread of 20 and Smoke Developed of 100. New York City approved MEA 357-98-M.

**Painting/Laminating**

When choosing a coating or laminate system, confirm compatibility of the paint, laminate or adhesive with the respective manufacturer and ensure the Class 1 flame spread classification of the Arreis FR panel will not be adversely affected.

**NOTE:** Retardant additive may cause adhesion problems when using adhesives containing poly vinyl alcohol. Contact Your Supplier for adhesive recommendations.

| Technical Data         | Metric             |
|------------------------|--------------------|
| Density                | 769 kg/m3          |
| Internal Bond          | .90 N/mm2          |
| Modulus of Rupture     | 22 N/mm2           |
| Modulus of Elasticity  | 2.618N/mm2         |
| Modulus of Hardness    | 340kgJanka Ball    |
| Screw Holding, Face    | 1,1123 N           |
| Screw Holding, Edge    | 890N               |
| Thickness Tolerance    | +0.127 mm          |
| Thickness Swell        | 3%                 |
| Linear Expansion       | 0.30%              |
| Water Absorption       | 14%                |
| Flame Spread Rating    | Class1 (a)         |
| Moisture Content       | 6-8%               |
| Formaldehyde Emissions | As low as 0.001ppm |

Arreis FR is a sustainable Class 1 flame retardant medium density fibreboard (MDF) panel manufactured from 100% recycled wood waste, meeting the most stringent formaldehyde emission standards in the world. SierraPine's patented manufacturing process utilizes a formaldehyde-free adhesive system to produce Arreis FR. During processing an additive is blended with the fibres to provide flame-retardant properties throughout the board. Unlike surface flame retardant coatings, the flame retardant properties of Arreis FR aren't compromised when the panel is machined or sanded. Arreis FR is the ideal product for interior applications that require a certified Class 1 product and where certain indoor air quality requirements

Average physical properties for 3/4" panel when tested in accordance with ASTM D1037. Specific design applications and technical data are available upon request. Emissions tested in accordance with ASTM E-1333.

| Ideal Applications |                | Suitable Uses   |
|--------------------|----------------|-----------------|
| Schools            | Museums        | Wall sheeting   |
| Libraries          | LEED® Projects | Wainscoting     |
| Hospitals          |                | Display panels  |
| Theatres           |                | Lobby interiors |
| Offices            |                | Door components |

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|  | <p><b>LEED® 2009 Credits Supported</b><br/>           Materials &amp; Resources: 4.1, 4.2, 5.1, 5.2, 7<br/>           Environmental Quality: 4.4</p> |
|  | <p><b>SCS Certified</b><br/>           Post-Industrial Recycled Wood Fibre<br/>           No-Added Formaldehyde</p>                                  |
|  | <p><b>CSIRO tested to AS3837 In accordance with Specification A2.4of the Building code of Australia</b><br/>           Group 1 achieved</p>          |
|  | <p><b>EPP Certified</b><br/>           Specification CPA EPPS 3-08<br/>           CARB Approved Third Party Certifier TPC-1</p>                      |
|  | <p><b>CHPS Compliant</b><br/>           Meets Materials Specifications for VOC emissions section 01350</p>   |
|  | <p><b>FSC Certified (Mixed Credit)</b><br/>           Cert no. SCS-COC-001409 © 1996 FSC</p>   |



Manufactured by



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