

Duraflake Fire-Rated* is a UL approved Class A/Class 1 fire-rated particleboard panel. This nationally recognized fire-rated panel is classified by Underwriters Laboratories for surface burning characteristics using the UL 723 Test Method. Panels are retardant throughout, stay classified after cutting and have a wide range of sizes available.

***Fire-Rated** products manufactured in Albany, OR are available in widths up to 5ft. and products manufactured in St. Stephen, NB are available in widths up to 4 ft.

DURAFLAKE FIRE-RATED							
		Albany, OR			St. Stephen, NB		
Thickness Range	(in./mm)	3/8" - 15mm	5/8" - 3/4"	13/16" - 1 1/2"	3/8" - 7/16" 9.525 - 11.11mm	1/2" - 9/16" 12.7 - 14.29mm	5/8" - 3/4" 15.875 - 19.05mm
Average MOR	(psi)	1,600	1,600	1,600	1,813	1,813	1,813
Average MOE	(psi)	325,000	325,000	300,000	246,600	246,600	246,600
Average Internal Bond	(psi)	75	75	60	58	58	58
Face Screw Hold	(lb)	240	240	240	180	180	180
Edge Screw Hold	(lb)	NA	190	175	157	157	157
Thickness Tolerance	(in.)	+/- .005	+/- .005	+/- .005	+/- .005	+/- .005	+/- .005
Linear Expansion	%	0.40	0.40	0.35	-	-	-
Length and Width	(in.)	+/- 1/16	+/- 1/16	+/- 1/16	+/- 1/16	+/- 1/16	+/- 1/16
Square	(in.)	+/- 1/8	+/- 1/8	+/- 1/8	+/- 1/8	+/- 1/8	+/- 1/8

- The above physical properties are based on minimum allowable averages of individual production lots. Testing for conformance to the above specifications must be done in accordance with procedures described in the American National Standard for Particleboard (ANSI A208.2-2009 section 5.2 Sampling for Acceptance).
- Complies with formaldehyde emission requirements for Particleboard in CPA-ECC-2011, ANSI A208.1-2009 and CCR 93120.2 (CARB Composite Wood ATCM Phase II).
- All panels are approved for interior, non-structural application.
- Contains 100% Recycled/Recovered wood content.

Applicable Standard Tests

- ASTM E 84 Standard Test for Surface Burning Characteristics of Building Materials.
- ASTM C 236 Guarded Hot Box Test.
- UL 723 Test for Surface Burning Characteristics of Building Materials.
- CAN/ULC - S102 Test for Surface Burning Characteristics of Building Materials.

California Proposition 65 Requirement:

Warning: Drilling, sawing, sanding or machining wood products generates wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection.

Usage Notes:

Some laminates applied to Duraflake® FR particleboard may change the flame spread rating. Standard available woodworking glues have been successfully used in lamination. However, some adhesives may have compatibility problems with the chemical system used to manufacture Duraflake® FR particleboard. Any adhesive should be tested for compatibility with the chemical system in Duraflake® FR particleboard prior to full-scale gluing. Questions should be directed to the glue supplier. When using Duraflake® FR particleboard in wall systems, an integral vapor barrier must be a properly installed component of the wall in any of the following conditions: the wall has an exterior side and the wall separates spaces conditioned unequally. Joints between panels to be designed to accommodate movement of up to .40 percent. Splined or articulated joints for reveals per AWI Section 500, 500A-G-4 "Joints and Transitions" or similar is suggested. Wood veneers and other laminates should be tested for compatibility with Duraflake® FR particleboard prior to use. Some wood veneers, laminates, and other types of products may have reactions to surface coatings and finishes, glues, pressing temperatures, moisture, contaminants, the chemical systems used to manufacture FR particleboard products, the failure to use UV inhibitors, or due to other causes. Reactions may include discoloration to veneer or laminate. ARAUCO is not responsible for discoloration or for claims associated with discoloration. Please contact your Sales Representative for more information.

Building Codes

- ICC – International Code Council – 2009 International Fire Code.
- NFPA – National Fire Protection Association - NFPA 101 Life Safety Code - NFPA 5000 Building Construction Safety Code.

Storage and Handling

Particleboard products made by ARAUCO should never be stored or used outdoors. The indoor storage area should be clean, dry, well ventilated, and free of dust, dirt or particles that could contaminate the particleboard. Store flat on stickers on a level, hard, dry surface. Constant relative humidity and temperature should be maintained. Before use, allow to stabilize to the same conditions as are expected after the panel is installed. Condition 48 to 72 hours prior to lamination. For more information, see Composite Panels Association Technical Bulletin: Storage and Handling of Particleboard and MDF.

