



DURAFLAKE® FR | fire rated particleboard

passion
for panels®

THE PARTICLEBOARD SOLUTION OF CHOICE FOR FIRE SAFETY NEEDS

Duraflake® FR from Flakeboard is the solution of choice when building code and public safety specifications demand fire safety compliance. Duraflake® FR particleboard is a UL® approved, Class A/Class 1-rated fire retardant panel that's ideal for interior, non-structural use in restaurants, schools, hospitals, hotels, malls, airports, offices and public buildings.

Duraflake® FR offers:

- Superior strength and dimensional stability
- Low linear expansion and thickness swell
- Smooth surface properties for laminating and finishing
- Easy machining and low tool wear
- Wide range of products and sizes

Grade	Duraflake® FR Particleboard - Albany	
Thickness (in)*	3/8 - 3/4	13/16 - 1 1/2
Specification	Class A/Class 1 Flame Spread	Class A/Class 1 Flame Spread
Density (pcf)	47-50	44-47
MOR (psi)	1,600	1,600
MOE (psi)	300,000	250,000
Internal Bond (psi)	80	60
Face Screw Hold (lb)	250	250
Edge Screw Hold (lb)	225	175
Linear Expansion (%)	0.40	0.35
Thickness Tolerance (in)	+/- .005	+/- .005
Length and Width (in)	+/- 1/16	+/- 1/16
Squareness (in)	+/- 1/8	+/- 1/8

* Metric thickness available. The above physical properties are based on averages of normal production.

- Material Safety Data Sheets are available upon request
- All panels are approved for use in interior, non-structural applications
- Contains 100% Recycled/Recovered Wood Content
- Conforms to formaldehyde emission requirements for particleboard in ANSI A208.1 Table A and HUD 24 CFR Part 3280

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

BUILDING CODES

- ICC - International Code Council - 2000, 2003, 2006 International Building Code
- NFPA - National Fire Protection Association - NFPA 101 Life Safety Code - NFPA 5000 Building Construction Safety Code

AGENCY APPROVALS

California State Fire Marshall 2660-1627:100, City of New York MEA 177-78-M, City of Los Angeles RR 24811, City and County of San Francisco 6260W34.1B, City and County of Denver M-88-46

Underwriter's Laboratories, Inc. Classified Wood Particleboard Surface Burning Characteristics, UL 723 (Based on 100 for Untreated Red Oak)

Flame Spread	20 USA	25 Canada
Smoke Developed	25 USA	25 Canada

Thermal Conductivity (k) and Thermal Resistance (1/k = R)¹

Thickness (in)	3/8"	1/2"	3/4"	1"
k	0.54	0.62	0.55	0.69
R	1.85	1.16	1.82	1.45

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.

STORAGE AND HANDLING

Duraflake® FR particleboard 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.



CPA-3-08 Specification
AVAILABLE UPON REQUEST

