

Fire Retardant Particleboard Data

KSI offers selected ceiling and wall mount loudspeaker which are fabricated from fire retardant particle board. Below are the specifications from the manufacture relating to the fire rating of this product.

Product Name:

Fire-Rated Particleboard
Duraflake FR

Manufacture:

Willamette Industries, Inc.
Duraflake Division
Building Materials Group
P.O. Box 428
Albany, Oregon 97321
Phone: (503) 928-3341
FAX: (503) 928-4116

Basic Use: Duraflake FR is a class 1 rated fire retardant particleboard, suitable for a variety of industrial & commercial building applications where stringent building codes, public safety requirements or reduced insurance rates are a factor. It is used as a substrate for wood veneers, high & low pressure laminates and vinyls in wall systems, as well as furniture and fixtures. It can be drilled, routed, bullnosed, beveled and precision machined without affecting the flame spread rating.

Limitations:

Duraflake FR should be specified for interior use only.

Composition & Materials:

Duraflake FR is made from Western soft wood particles & highly effective fire retardant chemicals bonded with special formulas of resins & waxes.

Applicable Standards: ASTM E 84 tunnel test. Material & Equipment Acceptance Division, New York City. ASTM C 236, Guarded Hot Box test. UL 723 Test for Surface Burning Characteristics of Building Materials.

Building Codes:

BOCA, ICBO and SBCCI

Agency Approvals:

City of New York MEA 177-78-M; State of California Fire Marshall 2660-831:1; City of Los Angeles RR 24811; City and County of San Francisco 258 W34.1.

Technical Data

Underwriters' Laboratories, Inc.
Classified Wood Particleboard:
Surface Burning Characteristics,
UL 723--

(Based on 100 for untreated red oak)
Flame Spread 20
Smoke Developed 25
See UL Classified Building Materials Index. Listed under wood particle board.

Thermal Conductivity (K) and Thermal Resistance (1/K=R)*:

	3/8"	1/2"	3/4"	1"
k=	0.54	0.62	0.55	0.69
R=	1.85	1.61	1.82	1.45

* R & K values obtained using ASTM C 236. Thermal conductance and transmittance of built-up wall sections by means of the Guarded Hot Box in tests conducted by Northwest Testing Laboratories.

