

Micore® Mineral Fiber Board

300

Versatile, high-performance core or substrate

- Handles more easily than gypsum panels and particle board
- Outstanding versatility adapts to a variety of applications
- Simplified component assembly saves time and money
- Smooth, coated finish maintains tighter tolerance
- Exceptional tackability
- Good sound control
- Class A flame spread ratings developed per ASTM E84; UL classified
- STC ratings developed per ASTM E336-90; classified in accordance with ASTM E413-87
- Meets requirements for classrooms per Collaborative for High-Performance Schools (CHPS), Section 01350

Description

MICORE® brand 300 mineral fiber board from USG is a superior substrate for fabric and vinyl-covered wall panels, office dividers and tackboards. An excellent core for chalkboards, stove boards, and similar applications, MICORE 300 mineral fiber board offers outstanding resilience, superior machinability, high “k” factor, heavy density and highest surface hardness of any MICORE board.

Advantages

MICORE 300 mineral fiber board is nearly 50% lighter than particle board, which allows for easier handling and lower freight rates. It also outperforms gypsum panels in workability—the inorganic mineral fibers resist moisture, minimizing expansion and warpage. And the board cuts quickly to size and shape specifications using standard equipment while adapting readily to last-minute design changes. What’s more, MICORE 300 mineral fiber board outperforms particle board and other wood-fiber boards for flame spread and sound absorption.

Sizes

Thickness

- 3/8" (.375)
- 7/16" (.438)
- 1/2" (.500)
- 5/8" (.625)
- 3/4" (.750)

Tolerances

Thickness	± .015" sanded and coated
Width and Length (per 4 ft.)	± 1/16" (.0625")

Physical Properties

Surface Burning Characteristics	Flame spread ¹	25
	Smoke developed ¹	10
Density (pcf)	23 ± 3 lbs./cu. ft.	
Weight	656-1,562 lbs./MSF	
Modulus of Rupture ²	350 lbs./sq. inch	
Modulus of Elasticity ²	25,000 lbs./sq. inch	
Tensile Strength (Parallel to Surface) ²	170 lbs./sq. inch	
Hardness (Janka Ball) ²	55 lbs.	
Hygrometric Expansion (50% to 90% R.H.)	0.1%	
Thermal Conductivity ²	k Factor	.49
	R Value (1/2" board)	1.03

1. Underwriters Laboratories, Inc. Classified as to surface burning characteristics (File No. R-11588). Underwriters Laboratories, Inc. (File No. MH-14487), (DFCV2) recognized component for category of miscellaneous heating and cooling appliance accessories.
 2. Values shown are production averages.



Acoustical Performance³

Thickness	STC Rating	NRC
3/8"	24	—
7/16"	24	.25 - .30
1/2"	25	.30 - .35
5/8"	26	.30 - .35
3/4"	28	.30 - .35

3. Based on perforated product only. Published STC and NRC values are based on laboratory tests. Actual field acoustical performance may differ depending on acoustical performance of all other products and systems used with the Micore panels as installed.

Storage and Handling

All materials shall be delivered in their original unopened packages and stored in an enclosed shelter providing protection from damage and exposure to the elements. Damaged or deteriorated materials shall be removed from the premises.

Limitations

Exposure to excessive or continuous moisture should be avoided.

Submittal Approvals

Job Name	
Contractor	Date

Warning

Sustained high level exposure to crystalline silica is thought to increase the risk of lung cancer. Dust exposure can cause temporary eye, skin and respiratory tract irritation. Avoid creating dust and install in well-ventilated area. Cut and trim with razor knife or hand saw to minimize dust levels. Using power tools for cutting will generate high dust levels. Power tools must be equipped with dust collection system. Use NIOSH/MSHA-approved dust respirator. Avoid dust contact with eyes and skin. Wear eye protection and long-sleeve, loose-fitting clothing closed at the neck and wrists. Wash work clothing separately from other clothing. Rinse washer thoroughly.

Product Information

See micore.com for the most up-to-date product information.

Note

Products described here may not be available in all geographic markets. Consult your U.S. Gypsum Company sales office or representative regarding product availability and current product specifications.

Trademarks

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Notice

We shall not be liable for incidental or consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from the date it was or reasonably should have been discovered.

Safety First!

Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

