

Micore® Mineral Fiber Board

160

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 are tested per ASTM E84; UL-classified
- STC ratings are tested per ASTM E90; classified in accordance with ASTM E413
- NRC is tested in accordance with ASTM C423
- Meets requirements for classrooms per Collaborative for High-Performance Schools (CHPS) Section 01350

Description

Used as a substrate or core, Micore® brand 160 mineral fiber board from USG improves the quality and performance of your design in various applications, such as open-plan partitions, office screens, dividers and tackboards. The board combines lightweight properties with the strength and stability of heavier boards.

Advantages

Micore 160 mineral fiber board is nearly 50% lighter than particle board, which allows for easier handling and lower freight rates. The inorganic mineral fibers resist moisture, minimizing expansion and warpage which are problems with particle board when it gets wet. Also, Micore outperforms gypsum panels in workability. And the board cuts quickly and easily to size and shape specifications using standard equipment while adapting readily to last-minute design changes. What's more, Micore 160 mineral fiber board outperforms particle board and other wood fiber boards for flame spread and sound absorption.

Sizes	Thickness and Weight	Thickness*	Weight
		3/8" (0.375)	0.50–0.63 pcf
1/2" (0.500)	0.67–0.83 pcf		
5/8" (0.625)	0.83–1.04 pcf		
3/4" (0.750)	1.00–1.25 pcf		

*Density range of 18 ± 2 pcf

Tolerances

Thickness	±0.015" sanded and coated
Width and length (per 4 ft.)	± 1/16" (0.0625")

Physical Properties

Surface burning characteristics	Flame spread ¹	25
	Smoke developed ¹	10
Density (pcf)	18 ± 2 lbs./cu. foot	
Modulus of rupture ²	275 lbs./sq. inch	
Modulus of elasticity ²	21,000 lbs./sq. inch	
Tensile strength (parallel to surface) ²	125 lbs./sq. inch	
Hardness (Janka Ball) ²	35 lbs.	
Hygrometric expansion (50% to 70% R.H.)	0.25%	
Thermal conductivity ²	k Factor	0.39
	R Value (1/2" board)	1.27

1. Underwriters Laboratories, Inc. Classified as to surface burning characteristics (File No. R-11588).
 2. Values shown are production averages.
 3. All values shown are those at the time of manufacturing.



Acoustical Performance⁴

Thickness	STC Rating	NRC (min.)
3/8"	22	—
1/2"	24	0.30
5/8"	26	0.30
3/4"	26	0.50

4. 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.

Environmentally Friendly

For the latest and most accurate information on recycled content, use the LEED Report Tool on usgdesignstudio.com.

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. Installation and occupancy conditions, not to exceed 85 °F/70% RH.

Submittal Approvals

Job Name	
Contractor	Date

Warning

Dust can cause irritation to eyes, skin and respiratory tract. Wear eye, skin and respiratory protection as necessary per working conditions. If cutting board with a power tool, use a wet or vacuum saw to reduce the amount of dust generated. If eye contact occurs, flush thoroughly with water for 15 minutes. Panels are heavy and can fall over, causing serious injury or death. Avoid creating a tripping hazard and do not exceed floor limit loads. Product safety information: **800-507-8899** or usg.com. **KEEP OUT OF REACH OF CHILDREN.**

Product Information

See usg.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.

