



# Micore 300 Mineral fiber



Submittal Sheet

## 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 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** 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. 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 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 and Weight	Thickness*	Weight
		3/8" (0.375)	0.63–0.81 psf
	7/16" (0.438)	0.73–0.95 psf	
	1/2" (0.500)	0.83–1.08 psf	
	5/8" (0.625)	1.04–1.35 psf	
	3/4" (0.750)	1.25–1.63 psf	

\*Density range of 23 ± 3 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 <sup>1</sup>	25
		Smoke developed <sup>1</sup>	10
	Density (pcf)	23±3 lbs./cu. ft.	
	Modulus of rupture <sup>2</sup>	350 lbs./sq. inch	
	Modulus of elasticity <sup>2</sup>	25,000 lbs./sq. inch	
	Tensile strength (parallel to surface) <sup>2</sup>	170 lbs./sq. inch	
	Hardness (Janka Ball) <sup>3</sup>	55 lbs.	
	Hygrometric expansion (50% to 70% R.H.)	0.1%	
	Thermal conductivity <sup>2</sup>	k Factor	0.49
		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.  
3. All values shown are those at the time of manufacturing.

Acoustical Performance <sup>4</sup>	Thickness	STC Rating	NRC (min.)
	3/8"	24	—
	7/16"	24	0.25
	1/2"	25	0.30
	5/8"	26	0.30
	3/4"	28	0.30

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](http://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](http://usg.com). **KEEP OUT OF REACH OF CHILDREN.**

**Product Information**  
See [usg.com](http://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.  
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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.

# Micore SB Mineral fiber



Submittal Sheet

## Micore® Mineral Fiber Board SB

**Description** Micore® SB mineral fiber board is designed to be used in stove board applications.

**Advantages** Micore SB mineral fiber board is a recognized component for use in type I and II floor protectors and wall shields classified in accordance to UL1618.

Sizes	Thickness and Weight	Thickness*	Weight
		1/2" (0.500)	0.83–1.08 psf

\*Density range of 23 ± 3 pcf

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

Physical Properties	Density (pcf)	23±3 lb./cu. foot	
	Modulus of rupture <sup>1</sup>	200 lb./sq. inch	
	Hardness (Janka Ball) <sup>3</sup>	30 lb.	
	Hygrometric expansion (50% to 70% R.H.)	0.10%	
	Thermal conductivity <sup>2</sup>	k Factor	0.34
		R Value (1/2" board)	1.47

1. Values shown are production averages.  
2. The Thermal Resistance of the material was determined per ASTM C518-04 at a mean temperature of 110 °F.  
**Note:** All values shown are those at the time of manufacturing.

**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 eye contact occurs, flush with water for 15 minutes. Do not ingest. If ingested, call physician. Product safety information: **800 USG 4YOU (800 574-4969). KEEP OUT OF REACH OF CHILDREN.**

**Product Information**  
See [micore.com](http://micore.com) and [usg.com](http://usg.com) for the most up-to-date product information.  
**Note**  
Products described here may not be available in all geographic markets. Consult your United States Gypsum Company sales office or representative regarding product availability and current product specifications.  
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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.

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