

MICORE® Brand 160 Board

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

Description Used as a substrate or core, MICORE® Brand 160 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 Brand 160 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 and easily to size and shape specifications using standard equipment while adapting readily to last-minute design changes. What’s more, MICORE Brand 160 Board outperforms particle board and other wood fiber boards for flame spread and sound absorption.

Sizes	Thickness		
		3/8" (.375)	
		1/2" (.500)	
		5/8" (.625)	
		3/4" (.750)	
Tolerances		Thickness	± 0.015" sanded and coated
		Width and length (per lin. ft.)	± 1/64" (.016")

Physical Properties	Surface Burning Characteristics	
	Flame spread ¹	25
Smoke developed ¹	10	
Density (pcf)	16 ± 2 lbs./cubic foot	
Weight	500-1550 lbs./MSF	
Modulus of Rupture	200-300 lbs./sq. inch	
Modulus of Elasticity	30,000-35,000 lbs./sq. inch	
Tensile Strength	Parallel to surface	90-120 lbs./sq. inch
	Perpendicular to surface	10-15 lbs./sq. inch
Hardness (Janka Ball)	40-60 lbs.	
Hygrometric Expansion	From 50% to 90% R.H.	.25%
Thermal Conductivity ²	k Factor	.35
	R Value (1/2" board)	1.43

1. Underwriters Laboratories, Inc. Classified as to surface burning characteristics (File No. R-11588).

Acoustical Performance ²	Thickness	STC Rating	NRC
	3/8"	22	—
	1/2"	24	.30 - .40
	5/8"	26	.30 - .40
	3/4"	26	.55 - .60

2. Based on perforated product only.

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 safety information: 800-507-8899. KEEP OUT OF REACH OF CHILDREN.

Note

Products described here may not be available in all geographic markets. Consult your U.S. Gypsum Company sales office or representative for more information.

Trademarks

The following trademarks used herein are owned by United States Gypsum Company or a related company: Micore, USG.

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.



MICORE® Brand 300 Board

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

Description MICORE® Brand 300 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 Brand 300 Board offers outstanding resilience, superior machinability, high “k” factor, heavy density and highest surface hardness of any MICORE board.

Advantages MICORE Brand 300 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 Brand 300 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 lin. ft.)	± 1/64" (.016")

Physical Properties	Surface Burning Characteristics	Flame spread ¹	25	
		Smoke developed ¹	10	
	Density (pcf)	24 ± 2lbs./cubic ft.		
	Weight	500-2000 lbs./MSF		
	Modulus of Rupture	350-450 lbs./sq. inch		
	Modulus of Elasticity	30,000-35,000 lbs./sq. inch		
	Tensile Strength	Parallel to surface	225-275 lbs./sq. inch	
		Perpendicular to surface	20-30 lbs./sq. inch	
	Hardness (Janka Ball)	50-70 lbs.		
	Hygrometric Expansion	From 50% to 90% R.H.	0.1%	
Thermal Conductivity	k Factor	.458		
	R Value (1/2" board)	1.09		

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.

Acoustical Performance²	Thickness	STC Rating	NRC
	3/8"	24	.25
	7/16"	24	.25 - .30
	1/2"	25	.30 - .35
	5/8"	26	.30 - .35
	3/4"	28	.30 - .35

2. Based on perforated product only.

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