

# MICORE<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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" (0.16")

Physical Properties	Surface Burning Characteristics	
		Flame spread
	Smoke developed	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	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 <sup>2</sup>	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.



# MICORE<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> Brand 300 Board offers outstanding resilience, superior machinability, high "K" factor, heavy density and highest surface hardness of any MICORE board.

**Advantages**

MICORE<sup>®</sup> 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<sup>®</sup> 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 in. ft.) | ± 1/64" (.016")

**Physical Properties**

Surface Burning Characteristics	Flame spread	25
	Smoke developed	10
Density (pcf)	24 ± 2 lbs./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 (Wanka 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 Performance<sup>2</sup>**

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

<sup>2</sup> 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.