

National Gypsum® ThermalCORE™ Panel



ThermalCORE™
PCM Panel by National Gypsum

National 
Gypsum®

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Wall panel with latent heat storage capacity

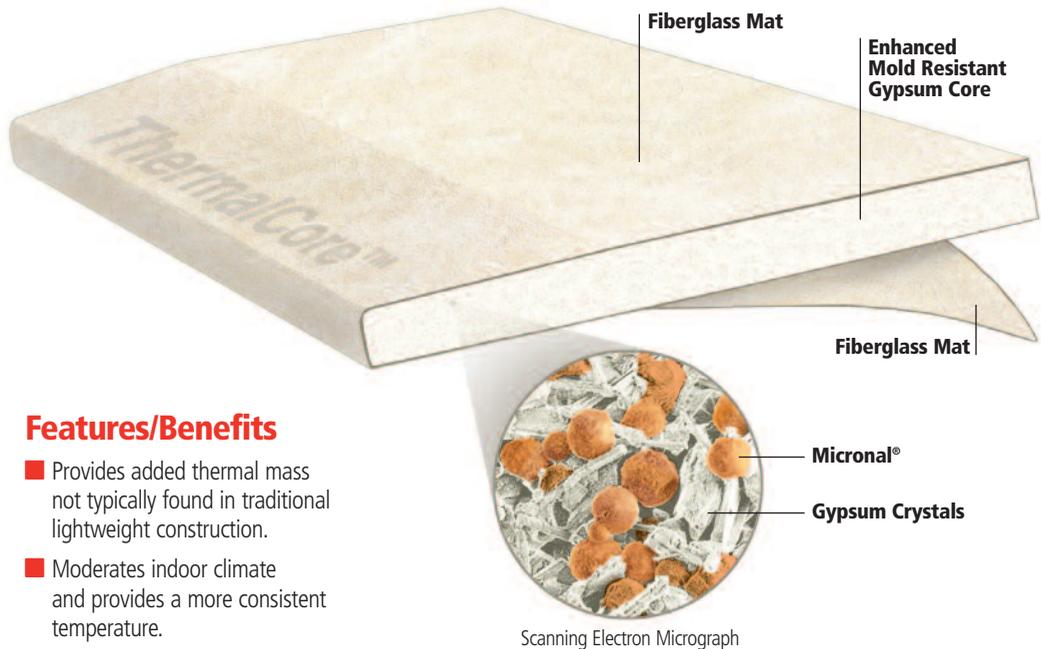
Description

National Gypsum's 1/2" ThermalCORE Panel contains Micronal®* phase change material (PCM) produced by BASF. Micronal is a microencapsulated, high-purity paraffin wax. This material changes phase from solid to liquid when it reaches 73° F, absorbing thermal energy to help moderate a room's temperature. When temperatures fall, the wax solidifies and releases heat. This alternating process of melting and solidifying allows ThermalCORE to absorb daytime temperature peaks, ideally providing a more consistent room temperature.

ThermalCORE is faced with a fiberglass mat and is manufactured with an enhanced mold resistant gypsum core.

For ease of installation, ThermalCORE comes standard with GridMarX® guide marks printed on the surface. These guide marks align with standard building dimensions and help to quickly identify fastener lines for stud and joint framing. The panels require a skim coat and will accept decoration similar to standard gypsum board.

*Micronal® is a registered trademark of BASF.



Features/Benefits

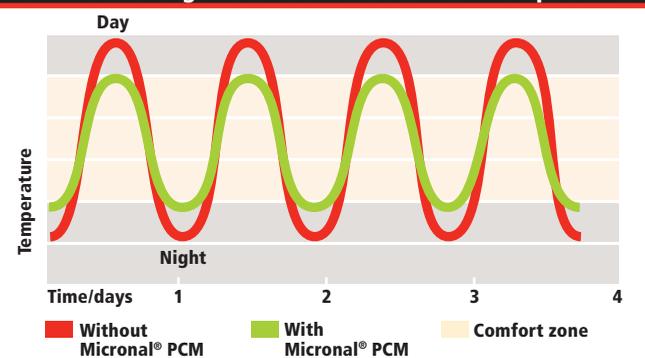
- Provides added thermal mass not typically found in traditional lightweight construction.
- Moderates indoor climate and provides a more consistent temperature.
- Potential for greater energy efficiency through latent heat storage.
- Phase change material is contained within virtually indestructible microscopic acrylic capsules which will not leak.
- Micronal has been subjected to 10,000 cycles to verify 30+ year durability.
- Fiberglass facer and treated core provides extra protection against mold growth per ASTM D 3273, achieving a score of 10, the best possible score.
- Handles and installs like regular gypsum board.

Technical Data

PHYSICAL PROPERTIES

Nominal Thickness	1/2"
Standard Width	4'
Standard Length	8'
Nominal weight (lbs./sf)	2.1
Edges	Tapered
Surface Burning Characteristics	Class B
Combustibility (per ASTM E 136)	Combustible
Mold Resistance (per ASTM D 3273)	10
Latent Heat (BTU/sf)	22 (Approx.)

How Phase Change Materials Moderate Room Temperatures



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www.thermalcore.info

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