



ENRG Blanket®

PRECISE TEMPERATURE CONTROL
FOR BUILDING ENERGY EFFICIENCY

Using BioPCM® Engineered Smart Material

Optimizes HVAC Power Consumption

Extends HVAC Equipment Lifetime

Reduces Carbon Footprint



25-35%
REDUCTION OF
HVAC
COSTS

15-20%
REDUCTION OF
HVAC
RUNTIME

20-25%
REDUCTION OF
HVAC
CYCLING

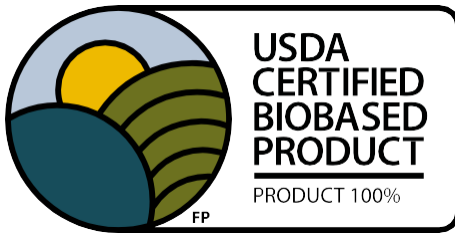
What is the ENRG Blanket?

ENRG Blanket® is a drop-in solution powered by our proprietary BioPCM® platform which absorbs and releases significant thermal energy at a specific design temperature resulting in lower heating and cooling energy use by up to 35%.

BioPCM® expected to outlive the useful life of your building.

- Optimizes HVAC power consumption
- Extends HVAC equipment lifetime
- Reduces carbon footprint





Phase Change Solutions earns USDA certified biobased product label with 100% biobased content.

This certification verified that BioPCM® is composed of 100% biobased content. Third-party verification for a product's biobased content is administered through the USDA BioPreferred program

SHEET SIZES AND DESIGN OPTIONS

ENRG Blanket® products are shipped prefabricated in 24" x 48" sheets

ENRG Blankets are available in various BioPCM® design configurations. Contact us for design details and building layout recommendations

GENERAL DESIGN SPECIFICATIONS BioPCM®

| | |
|------------------------------|------------------------------|
| M-VALUE, LATENT HEAT STORAGE | 35, 55, or 75 BTU/ft² |
| COMMON DESIGN TEMPS | 23, 25, 27°C (73, 77, 80°F) |
| SPECIAL ORDER MELTING POINTS | -40 to +40°C (-40 to +104°F) |
| SPECIFIC HEAT OF BIOPCM® | 2.0- 2.5 J/g°C |
| LATENT HEAT | 200-230 J/g (85-100 BTU/lb) |
| WEIGHT OF BLANKET | 0.6 to 1 lb/ft² |

ROOFING APPLICATIONS 100% coverage

| | |
|-------------------------------------|--|
| M-VALUE, THERMAL CAPACITY PER CYCLE | 55 or 75 BTU/ft² |
| RECOMMENDED DESIGN TEMP | 29-38°C / 85-100°F (Order 25-35°F above target conditioned space temps) |
| WEIGHT OF BLANKET | 0.80 to 1 lb/ft² |

DROP CEILINGS 65-85% net coverage of conditioned square footage

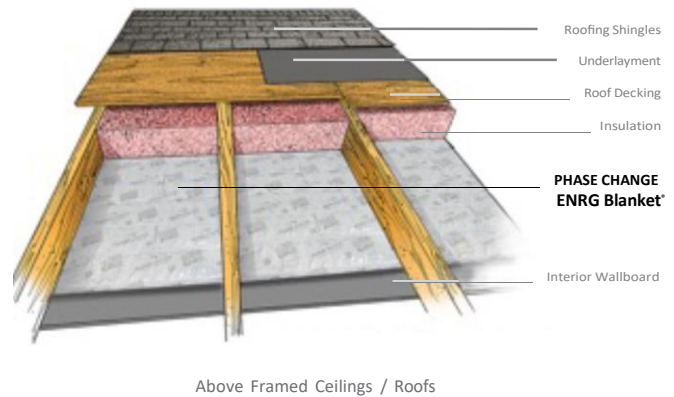
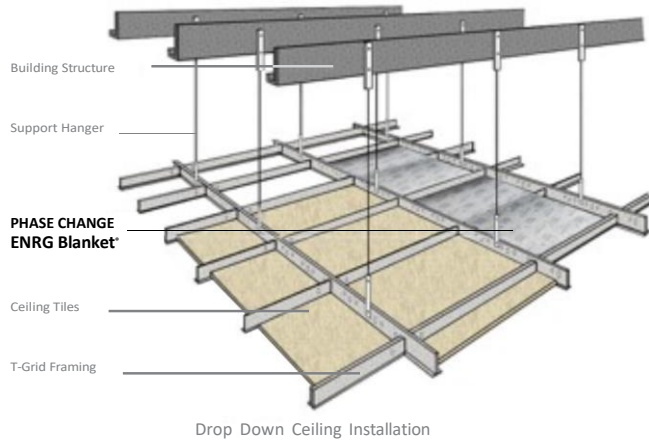
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|---|---|
| M-VALUE, THERMAL CAPACITY PER CYCLE | 35, 55 BTU/ft² |
| COMMON DESIGN TEMPS | 23°C or 73°F (25°C or 77°F for hotter climates) |
| We can also offer 21, 23, 25, 27, 29°C and dual temperature: 21/25°C, 23/25°C, 23/27°C. (Order stock temperature 1-2°C (2-4°F) above target conditioned space temp) | |
| WEIGHT OF BLANKET | 0.60 to 0.80 lb/ft² |

FIRE RATINGS

ENRG Blanket meets the following safety standards:

| | |
|---------------------------------------|---|
| ASTM E84, UL 723, and CAN/ULC S102-10 | Standard test method for Surface Burning Characteristics of Building Material |
| ASTM E800 | Standard guide for measurement of gases present or generated during fires |

INSTALLATION TYPES



Drop Down Ceiling (Ceiling Grids)

ENRG Blankets® may be installed over ceiling panels in new buildings or as a retrofit solution for existing buildings to lower HVAC demand. Blankets can also be installed in a single room or zones to mitigate “hot office syndrome.” Works well in high performing buildings with minimal disturbance to occupants.



Above Framed Ceilings

ENRG Blanket® may be installed in new buildings and during renovations of interior spaces. It can be placed under framed ceilings, before drywall application, to lower energy demands for improved occupant comfort. Install in accordance with the following.





Smart Materials For People and The Planet

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