



**INSULATION SYSTEMS**

**McQuade &  
Bannigan Inc.**

The key to P2000 Insulation Systems' effectiveness is not its individual components but how these pieces function together as an engineered system. P2000 Insulation Systems is a high performance insulation system that addresses all three types of heat transfer: conduction, convection and radiation. It is a specially formulated expanded polystyrene (EPS) core with metalized plastic facers.

P2000 Insulation Systems delivers energy savings and interior comfort in extreme weather conditions. The laminated board with double sealed joints block drafts. The dense foam core reduces conductive heat transfer, while the metalized plastic facers minimize air and moisture infiltration and are effective radiant blockers.

P2000 Insulation is lightweight, easy to handle, and simple to install. It will never sag or settle and resists moisture absorption making it an effective insulator even when wet.

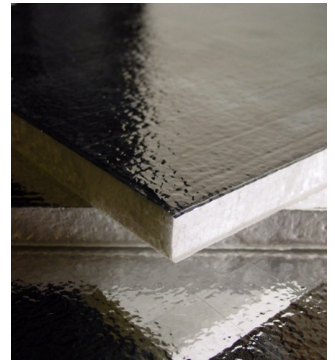
P2000 Insulation makes for healthier homes. It does not support mold growth; it does not "off-gas" harmful chemicals; it does not release harmful airborne particles and it contains no CFC's or HCFCs.

## **Easy Installation**

- Available with radiant foil facing on both sides (RPR) or radiant foil and radiant white (WPR) on opposite sides
- Available in 4' x 8' sheets pre-taped on the 8' sides ( $\frac{3}{8}$ " also available in 4' x 72' rolls)
- 3" aluminum or white tape also available for taping additional seams

## **Benefits**

- No dew line
- Stops condensation
- Maintains R-value
- Reflects up to 97% radiant heat
- Resists mildew and mold



## **Applications<sup>1</sup>**

- Walls: wood frame, steel frame, concrete block, poured concrete, concrete tilt-up panels
- Ceilings: flat or vaulted; can be applied under trusses or rafters
- Roofing: installs over purlins and roof decks and under steel roofing
- Floors: Under concrete (WPR) and radiant heat floors and over concrete slabs
- Below Grade: for pipes, utility lines, foundations, water and sewer lines
- Commercial/  
Industrial: HVAC ductwork, truck bodies, refrigerated storage, radon barrier, vapor barrier

**Radiant Reflector**



**Radiant Block -Finished Surface**

<sup>1</sup>It is the buyer's responsibility to ascertain proper use of product and adhere to local code regulation requirements

The real value of an R-value is in its performance. P2000 is a product that PERFORMS - therein lies its real value to the end user. Visit [p2000insulation.com](http://p2000insulation.com) for testimonials and additional photos.

### Nominal R-Values<sup>1</sup>

Board Thickness	P2000	P2000 + Airspace	P2000 Wall Assembly	P2000 Performance Rating <sup>4</sup>	Fiberglass (6")
3/8"	1.6	4.1	7.3	14.68	
5/8"	2.7	5.2	8.4	18.95	
1"	4.11 ASTM C518 <sup>2</sup>	6.8	10.2 ASTM C1363 <sup>3</sup>	27.43	R19: ASTM CS518 <sup>2</sup> R11.5: ASTM C1363 <sup>3</sup>
1 1/2"	6.5	9.0	12.3	41.1	
2"	8.6	11.1	14.3	54.86	

Item #	Code	Description	Stock*
RPR38	P20	3/8" x 4' x 8' RPR Sheet	Y
RPR38-RL	P20	3/8" x 4' x 72' RPR Roll	Y
RPR58	P20	5/8" x 4' x 8' RPR Sheet	Y
RPR1	P20	1" x 4' x 8' RPR Sheet	Y
RPR112	P20	1 1/2" x 4' x 8' RPR Sheet	Y
RPR2	P20	2" x 4' x 8' RPR Sheet	Y
WPR38	P20	3/8" x 4' x 8' WPR Sheet	Y
WPR38-RL	P20	3/8" x 4' x 72' WPR Roll	Y
WPR58	P20	5/8" x 4' x 8' WPR Sheet	Y
WPR1	P20	1" x 4' x 8' WPR Sheet	Y
WPR112	P20	1 1/2" x 4' x 8' WPR Sheet	A
WPR2	P20	2" x 4' x 8' WPR Sheet	A
ALUMTAPE	P20	4" x 150' Aluminum Insulation Tape	Y
WHITETAPE	P20	3" x 164' White Insulation Tape	Y
WASHER	P20	1 1/2" Plastic Washers 100-pack	Y
*Y = stock item; A = readily available by order			



This exterior photo shows frost and snow still on the roof above the P2000 because heat did not escape and melt the frost. The heat loss through the fiber-glass area melted the frost on the rest of the roof.



<sup>1</sup>To get the marked R-value it is essential that the insulation be installed properly. Highlighted R-values obtained from generally accepted tests, as noted. All other R-values based on thermal calculations based on the test results.

<sup>2</sup>R-value rating based on Insulation Material Test ASTM C518

<sup>3</sup>R-value based on Installed Insulation Performance Test ASTM C1363

<sup>4</sup>Comparison test (under extreme conditions) based on a 2005 simulated test. Ask a McQuade & Bannigan Representative for the full test report.

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SALES@MQB.com



[www.MQB.com](http://www.MQB.com)

#### UTICA

1300 Stark St. • Utica, NY 13502  
Ph: (315) 724-7119 • Fax: (315) 724-0171

#### WATERTOWN

22696 Murrock Circle • Watertown, NY 13601  
Ph: (315) 788-2612 • Fax: (315) 785-0361

#### SYRACUSE

6300 E. Molloy Rd. • E. Syracuse, NY 13057  
Ph: (315) 671-4400 • Fax: (315) 671-4404