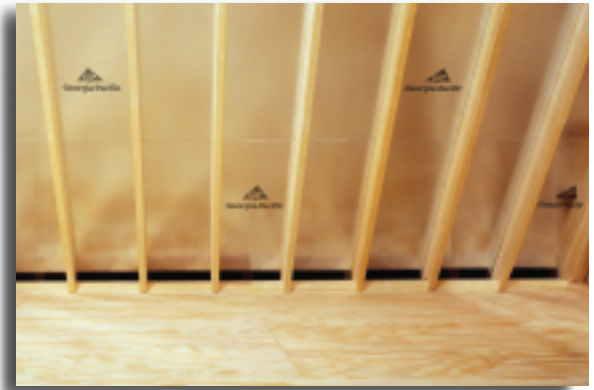


# Thermostat®

OSB Radiant Barrier  
Roof Sheathing

## Helps turn down attic temperatures.

- Ideal for use in hot climates
- Reflects up to 97% of radiant heat
- May lower cooling energy consumption by up to 17%<sup>1</sup>
- Made with high quality 7/16" or 19/32" Georgia-Pacific OSB
- Lifetime Limited Warranty<sup>2</sup>
- ENERGY STAR® Qualified



*On a hot summer day, attics with Thermostat® OSB Radiant Barrier Roof Sheathing can stay up to 30° cooler than attics with standard sheathing*

## How reflecting radiant heat reduces attic temperatures.

Thermostat® OSB Radiant Barrier Roof Sheathing is designed for roof sheathing applications, reflecting up to 97% of the sun's radiant heat – and keeping it from being absorbed into the attic of your home. That means you can maintain indoor comfort while potentially lowering cooling energy consumption.

### Why it works so well

Backed with a specially designed aluminum foil/craft paper laminate, this high quality Georgia-Pacific OSB sheathing is installed foil side down facing into the attic space. Since aluminum foil is highly reflective, up to 97% of the radiant heat is reflected from entering the attic space.

### Lower temperatures, greater comfort

Studies have shown that radiant barriers can reduce cooling energy consumption by up to 17%, depending on the design of the building, insulation levels and other factors.

Thermostat® OSB Radiant Barrier Roof Sheathing can lower peak attic temperatures up to 30°F by reducing summer radiant heat gain in the attic. Since less heat is transferred into living areas through the ceiling, indoor temperatures stay cooler and more comfortable while helping your cooling system operate more efficiently.



<sup>1</sup>According to radiant barrier studies.  
<sup>2</sup>See actual warranty for details, available at [www.gp.com/build](http://www.gp.com/build) or upon request.

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## Product Information



### Applications:

Roofing sheathing: Foil side installed down. Gap panel edges 1/8" minimum.

Wall sheathing: Foil should face out adjacent to a minimum 3/8" air space.

### Sizes:

4' x 8' panels are available in 7/16" or 19/32" OSB with aluminum foil backing

## Installation Guidelines for Roof Sheathing

Apply Thermostat® OSB Radiant Barrier Roof Sheathing with the foil side face down directly to the roof framing. (See tables for maximum roof spans, fasteners and fastening schedule.)

For radiant barrier roof sheathing to be effective long-term, the foil side (reflective surface) must have a minimum 3/4" air space to properly reflect radiant heat. This applies to both attic areas and cathedral type ceilings.

## Recommended Maximum Spans for Thermostat® OSB Radiant Barrier Roof Sheathing

(Panel strength axis perpendicular to supports and continuous over two or more spans)

Nominal Panel Thickness	Panel Span Rating	Maximum Span With Panel Clips <sup>(a)</sup>	Maximum Span Without Panel Clips
7/16"	24/16	24"	24"
19/32"	40/20	40"	32"

(a) Edge support may also be provided by tongue and groove edges or solid blocking.

## Recommended Minimum Fastening Schedule for Thermostat® OSB Radiant Barrier Roof Sheathing

(Increased nail schedules may be required in high wind zones and where roof is engineered as a diaphragm.)

Panel Thickness <sup>(a)</sup>	Nailing <sup>(b) (c)</sup>		
	Size	Maximum Spacing (in.)	
		Support Panel Edges <sup>(d)</sup>	Intermediate
7/16" & 19/32"	8d	6	12

(a) For stapling asphalt shingles use staples with a 15/16" minimum crown width and a 1" leg length. Space according to shingle manufacturer's recommendations.

(b) Use common smooth or deformed shank nails with panels.

(c) Other code-approved fasteners may be used.

(d) Supported panel joints shall occur approximately along the centerline of framing with a minimum bearing of 1/2". Fasteners shall be located 3/8" from panel edges.



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## Thermostat Sheathing FAQ

**Q:** If I use Thermostat Radiant Barrier Roof Sheathing, do I still need insulation?

**A:** Yes. Thermostat Radiant Barrier Roof Sheathing is designed to work with, not in lieu of, standard attic insulation.

**Q:** Can it damage my shingles?

**A:** The Reflective Insulation Manufacturers Association (RIMA) has published Technical Bulletin #103, which reports that in peak summer conditions, the temperature of asphalt shingles is increased only an average of 2 to 5° F over radiant barrier roof sheathing. This is not a significant temperature rise and most shingle manufacturers have indicated that it does not affect their shingle warranties.

**Q:** How much can I save using Thermostat Radiant Barrier Roof Sheathing in attics?

**A:** Energy usage varies according to many factors, including individual preferences and the fluctuation of energy costs in general, so savings will vary. The amount of energy consumed is directly related to two factors:

- The house cooling system, which includes insulation levels, roof color, thermostat settings, tightness of the building envelope, climate conditions, design and location of the house, size of house, efficiency of cooling equipment and many other factors.
- The percentage contribution of heat transfer through the ceiling to the home's cooling load. Cooling load is the amount of heat the air conditioner has to remove to sustain an adequate temperature in the living areas. Tests done by the Department of Energy show that ceiling heat gains represent about 12 to 25 percent of a home's total cooling load.

**Q:** What are the biggest benefits of using Thermostat Radiant Barrier Roof Sheathing in attics?

**A:** For one thing, you can lower attic temperatures by up to 30°F in the peak summer cooling season.

Other potential benefits include:

- Up to 17% decrease in energy consumption since the cooling system can work more efficiently due to lower attic temperatures.
- Increase in operational efficiency of cooling equipment because cooler attic temperatures allow attic mounted air-conditioning systems and ductwork to operate more efficiently.
- Increased utilization of home spaces including garages, attics, porches and other spaces that do not have climate control but stay cooler and more comfortable thanks to Thermostat Radiant Barrier Roof Sheathing

**Q:** Where can I find Thermostat Radiant Barrier Roof Sheathing?

**A:** For the dealer nearest you, contact BlueLinx Distribution at 1-866-502-BLUE.



**Georgia-Pacific**

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