

THE SUN BEATS DOWN, THE RAYS BOUNCE OFF, THE HOUSE STAYS NICE AND COOL.



iLevel™ Structurwood® Radiant Barrier Sheathing

When the sun beats down, the roof heats up, and that heat radiates through the insulation into a home's living spaces making the air-conditioning system work overtime. Power bills soar and spaces without air conditioning become virtually unbearable.

It doesn't have to be that way. Structurwood® Radiant Barrier Sheathing (RBS) comes pre-fabricated with a reflective foil layer that blocks more than 97%* of the sun's radiant energy, minimizing heat transfer through the roof and insulation to interior living spaces.

- Reflects up to 97%* of the sun's radiant energy
- Helps increase energy efficiency
- Minimizes heat transfer to living spaces
- Structurwood® quality and consistency
- Backed by iLevel's limited product warranty

FRAME THE ROOF AND FOIL THE SUN—IN ONE EASY STEP.

Installing a radiant barrier is an efficient, cost-effective way to help keep interior living spaces comfortable while saving energy costs. Structurwood® RBS provides all these benefits with no additional labor or material hassles.

Thanks to an innovative wood-resin combination, every Structurwood® RBS panel is manufactured flat, installs flat and stays flat, and has been engineered to precise specifications to resist problems like cupping, warp, or sag. The radiant foil layer is perforated for ventilation, to protect against condensation and moisture build-up.

As an added plus, Structurwood® RBS can even help keep un-airconditioned, uninsulated rooms like garages, workshops, and porches cooler, increasing a home's usable space.

A cooler attic is not only better for storage, it also puts less strain on attic-mounted appliances and ductwork.



*Energy savings estimated according to the Florida Solar Energy Center —“FPC Residential Monitoring Project,” 2001—97% reflectivity and 3% emittance measurements were derived from the aluminum foil laminate utilizing an Infrared Reflectometer in accordance with ASTM E408-Method A.

**Any savings will be dependent on local utility rates.

BENEFITS OF STRUCTURWOOD® RBS

- Easy, one-step installation
- Helps to lower energy costs**
- Improved indoor comfort
- Cooler attics, garages, and porches
- Less strain on attic-mounted appliances
- Long-term reliable performance

CONTACT US

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How Structurwood RBS Works



Traditional Roof Sheathing
Heat transferred through standard roof sheathing creates heat build-up in the attic. With no material to restrict heat, the heat radiates through the insulation into living spaces, causing room temperatures to rise. More energy is needed to cool the home at higher energy costs to homeowners.



Structurwood RBS
The foil-laminated Structurwood RBS panels reflect the sun's radiant heat back outside, away from the attic and house. Up to 97% of the sun's radiant heat is transferred away from the home, significantly reducing attic temperatures and reducing the amount of energy needed to cool the home – a potential energy savings of up to 25%¹.

¹Energy savings estimates according to the U.S. Green Building Council – LEED Residential Marketing Project, 2001. 97% reflectivity and 2% emittance measurements were derived from the actual sheathing samples using an Infrared Reflectometer in accordance with ASTM E408 Method A.

The Structurwood Radiant Barrier Sheathing Advantage

Weyerhaeuser's Structurwood RBS (Radiant Barrier Sheathing) panels represent our long-standing commitment to quality and service coupled with the latest advances in heat reflection technology. Engineered with the same high level of quality assurance and design specifications as our traditional Structurwood Roof Sheathing, our RBS panels include a layer of perforated foil to provide a radiant barrier that reflects up to 97% of the sun's heat and radiant energy.* This translates not only into ease of installation and high quality product performance, but also energy savings and increased property value for the homeowner.



Weyerhaeuser Structurwood High Quality and Product Performance

Structurwood sheathing ensures a solid, reliable roof that is manufactured flat, installs flat, and stays flat. Each panel is engineered to be the same as the next – free of core voids, knotholes, and delamination. The Structurwood Advantage:

- Consistent specifications – provide square, uniform panels for secure edges and nailing surfaces
- Precise two-way nail lines – ensure faster installation, saving time
- Exterior screened surface – enables sure-footing rooftop installation
- Reliable availability and delivery – Weyerhaeuser Customer Service is second to none

Weyerhaeuser Structurwood Radiant Barrier Sheathing

When Structurwood quality is combined with the most advanced radiant barrier energy technology, everyone wins. Weyerhaeuser has improved the foil, the lamination of the foil to the panel, and the performance of the panel to ensure the homeowner is able to capture the benefits of energy savings.* The Structurwood RBS Advantage:

- Improved perforations in the foil – enhances the drainage and venting process
- Specially designed adhesives – provide secure foil attachment and better durability
- Foil barrier – provides energy savings up to 25% by blocking up to 97% of the sun's heat

How Structurwood RBS Works

Traditional Roof Sheathing
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Structurwood RBS
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Product Specifications

Structurwood RBS is manufactured to the standards of the grading agency and carries its stamp and approval under Voluntary Product Standard PS-2 which is recognized by: International Building Code (IBC); Council of American Building Officials (CABO); Building Officials and Code Administrators (BOCA); International Conference of Building Officials (ICBO); Southern Building Code Congress International (SBCCI); and U.S. Department of Housing and Urban Development (HUD/ FHA).

Availability

Structurwood RBS Sheathing is available in standard sizes and thickness ranges from select Customer Service Centers. Minimum quantities may be required for some orders. For more information call the Structurwood Information Line at 800.523.0824 or either Structurwood Sales Center at 800.367.7296 or 800.463.9378.

Application and Handling

- ▲ Do not exceed the span limitations printed on each panel as part of the grading stamp.
- ▲ Use 8d common nails at the recommended schedule and gap panels 1/8" around all edges.
- ▲ Structurwood RBS Sheathing does not suffer from warping, glue failures or delamination.
- ▲ Like any wood product, wood-based panels are at risk of fungal decay or rot if exposed to repeated wetting or high-moisture environments.

Wood-based panels that are exposed to repeated wetting or high-moisture environments may deteriorate, lose strength, or support mold growth. For these reasons, transportation, storage, construction, installation and design must provide protection from such conditions.

- Examples of protection include:
- Ship Structurwood RBS Sheathing under tarp
 - Storage under roof with minimum moisture exposure
 - Roof systems that protect from moisture and allow for drying.

The recommendations in the table below apply to APA Exposure 1 Rated Sheathing. Uniform load deflection limits are 1/180 of span under live load plus dead load, and 1/240 under live load only. Special conditions, such as heavy concentrated loads, may require

constructions in excess of these minimums, or allowable live loads may have to be decreased for dead loads greater than 10 psf, such as tile roofs. Panels are assumed continuous over two or more spans with the long dimension or strength axis across supports.

Table 1

Allowable Uniform Roof Live Loads for APA Rated Sheathing Panels with Primary Axis Perpendicular to Supports¹

Span Rating	Nominal Panel Thickness (Inches)	Maximum Span (Inches)		Allowable Live Load ² (psf)								
		With Edge Support ³	Without Edge Support	Spacing of Supports Center to Center (Inches)								
		12	16	19.2	24	32	40	48				
24/0	3/8	24	20	190	100	60	30					
24/16	7/16	24	24	190	100	65	40					
32/16	1 1/2, 1 1/2	32	28	325	180	120	70	30				
40/20	1 9/32	40	32		305	205	130	60	30			
48/24	2 1/2, 2 1/2	48	36			280	175	95	45	35		

1 Applies to panels 24 inches or wider applied over two or more spans.
2 10 psf dead load assumed.
3 Tongue and groove edges, panel edge clips (one midway between each support, except two equally spaced between supports, 48 inches on center or greater), lumber blocking, or other.