



Thermal Design

INNOVATIVE ENERGY SAVING PRODUCTS

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Simple Saver System®

Products

Simple Saver System®

- A Simple Choice (http://www.thermaldesign.com/products/category/simple_saver/a_simple_choice)
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(http://www.thermaldesign.com/products/category/simple_saver/simple_saver_system_performance)
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- JM Formaldehyde-free™ Insulation
(http://www.thermaldesign.com/products/category/simple_saver/jm_formaldehyde_free_insulation)
- Warranty (http://www.thermaldesign.com/products/category/simple_saver/warranty)

- Installation (http://www.thermaldesign.com/products/category/simple_saver/installation)
- Items To Consider (http://www.thermaldesign.com/products/category/simple_saver/items_to_consider1)
- Photo Gallery (http://www.thermaldesign.com/products/photo_gallery/photo_gallery)

Dispense-R™

EnergyCraft®

HVAC

Lighting

Renewable Energy Systems

Photo Gallery

Products / Insulation Systems / Simple Saver System®

Simple Saver System Performance



Simple Saver System® installed in an elementary school cafeteria in Wooster, AR

For over 30 years we have developed and promoted high R-value insulation systems in metal buildings.

We believed there had to be a better way to insulate without the traditional methods with so much insulation compression. We would never insulate our homes this way, so why be forced to insulate your metal building this way? The Simple Saver System® is an inexpensive and effective method to create the space needed for full specified insulation thickness in roofs and walls.

- Simple Saver Roof Performance Values
- Simple Saver Wall Performance Values
- Testing and Modeling Thermal Performance
- Design Manual & Instructions

Simple Saver Roof Performance Values

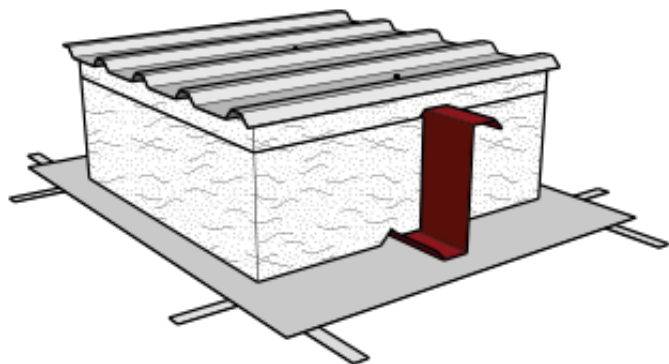
The Simple Saver Roof System is a patented fabric liner insulation system that minimizes insulation compression and isolates the conductive purlins from the inside conditioned air. The Syseal® fabric liner spans the entire bay's width and length and is supported by a grid pattern of UVMAX® coated steel straps installed below the purlins. This creates the uniform depth space for full insulation thickness between the purlins. The top layer of insulation is draped over purlins and compressed when the metal roof panels are attached.

			90.1-2004 & 2007			IECC 2009 & 90.1-2010			IECC 2012 & 189.1-2009			
Climate Zone			1-7	8	1	2-5	6-7	8	1	2-5	6	7-8
Prescriptive U-factor			0.065	0.049	0.065	0.055	0.049	0.035	0.044	0.035	0.031	0.029
Simple Saver System	U-factor	Installed R-value	Assembly options*									
R19+R11 Screw Down (no thermal block)	U-0.044	R-22.7	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No
R19+R11 Standing Seam (no thermal block)	U-0.040	R-25.0	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No
R19+R11 Standing Seam (with thermal block)	U-0.035	R-28.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
R25+R11 Standing Seam (with thermal block)	U-0.031	R-32.3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
R30+R11 Standing Seam (with thermal block)	U-0.029	R-34.5	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
R25+R11+R11 Standing Seam (with thermal block)	U-0.026	R38.5	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

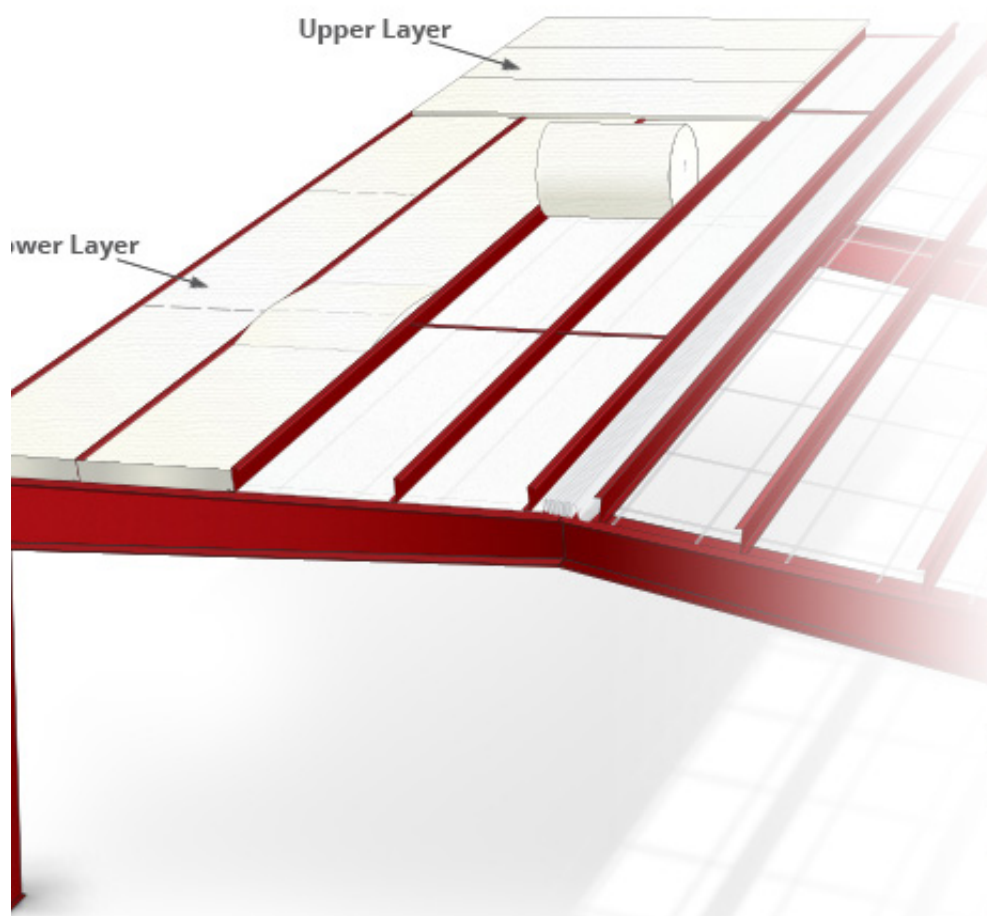
R-values are listed from inside to outside and purlins spaced 5'oc.

* Additional assemblies values are available upon request.

Double Layer Roof Systems



In new construction projects, a double layer Simple Saver is



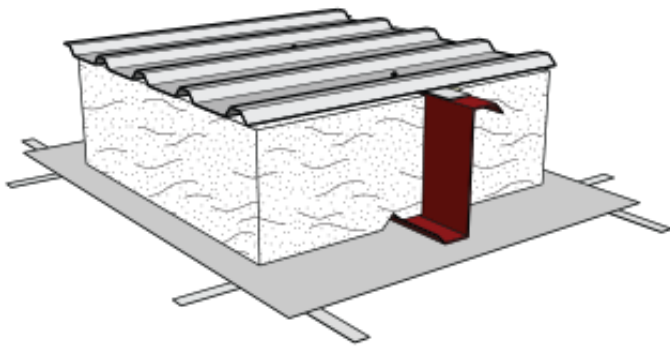
Simple Saver® Roof Systems

Pre-installed R-value	Lower Layer(s)	Upper Layer(s)
R-19	6"	-
R-25	8"	-
R-29	6"	3"
R-30	9"	-
R-30	6"	3 1/2"
R-32	6"	4"
R-35	8"	3"
R-38	8"	4"
R-43	9"	4"
R-49	9"	6"
R-49	12"	3 1/2"
R-52	12"	4"
R-57	12"	6"
R-60	9"	9"
R-68	12"	9"
R-76	12"	12"

Chart may apply to new and retrofit construction. Appropriate space is required.
Additional combinations available upon request.

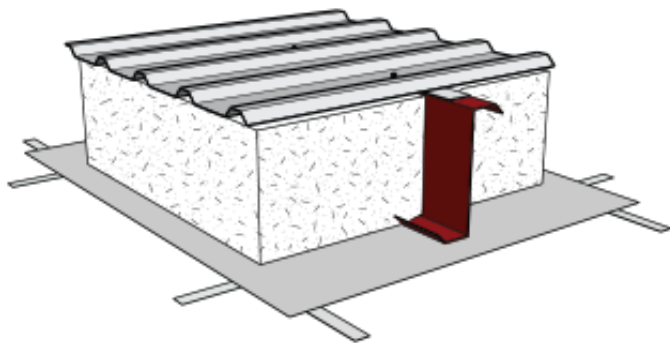
certainly the most common option specified. The bottom layer of fiberglass is installed parallel and between and purlins and the upper layer of fiberglass is installed perpendicular and atop the purlins. The upper layer of fiberglass between the roof sheets and the purlins serve as a thermal break to reduce thermal conduction, in addition to the thermal spacer block if applicable in standing seam roofs. Double layer systems are used in screw down roofs, standing seam roofs with or without thermal spacer blocks. Additional multilayer systems can also be achieved with multiple thick layers of fiberglass between the purlins (when cavity space is available) and an upper layer installed perpendicular to the purlins.

Single Layer Roof Systems



A very thick layer of fiberglass insulation can be installed parallel and between the purlins and used in a single layer Simple Saver roof as long as it adequately fills the cavity space. If a single layer system is selected for new construction, we encourage the fiberglass insulation to be in contact with the bottom of the metal roof sheet. Single layer systems are more common in screw down roofs vs. standing seam roofs which has the additional clip space above the purlin. Considering there isn't an upper layer of fiberglass, Thermal Design recommends our Quik-Stop™ thermal break foam tape between the roof sheet and the purlin to reduce thermal conduction.

Blown-in Systems



Considering the Simple Saver System is a suspended support roof system for insulation, it provides the option utilizing a range of insulation materials such as blown insulation or cellulose. Blown-in systems fill cracks and crevices within the cavity that helps reach maximum thermal performance and dramatically increases installation productivity in retrofit applications. Special equipment and installation experience may be required with blown-in systems. Considering there isn't an upper layer of fiberglass, Thermal Design recommends our Quik-Stop™ thermal break foam tape between the roof sheet and the purlin to reduce thermal conduction. Contact Thermal Design for more details on application and blower equipment rentals.

Specifications, Installation Instructions and Installation DVD available upon request. Simple Saver System Installation (http://webdev.thermaldesign.com/products/category/simple_saver/installation)

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Technical Support

Call our experts at **800.255.0776** or
email: custserv@thermaldesign.com

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