Buildings cost less with the

Simple Saver System™

The #1 specified high R-value insulation system for metal buildings

Over 40,000 installations since 1983

Simple Saver System helps reduce these costs:

- **HVAC**
- **Lighting**
- **Electrical**
- **Finishes**
- **Utilities**
- **Erection**

manufactured by:

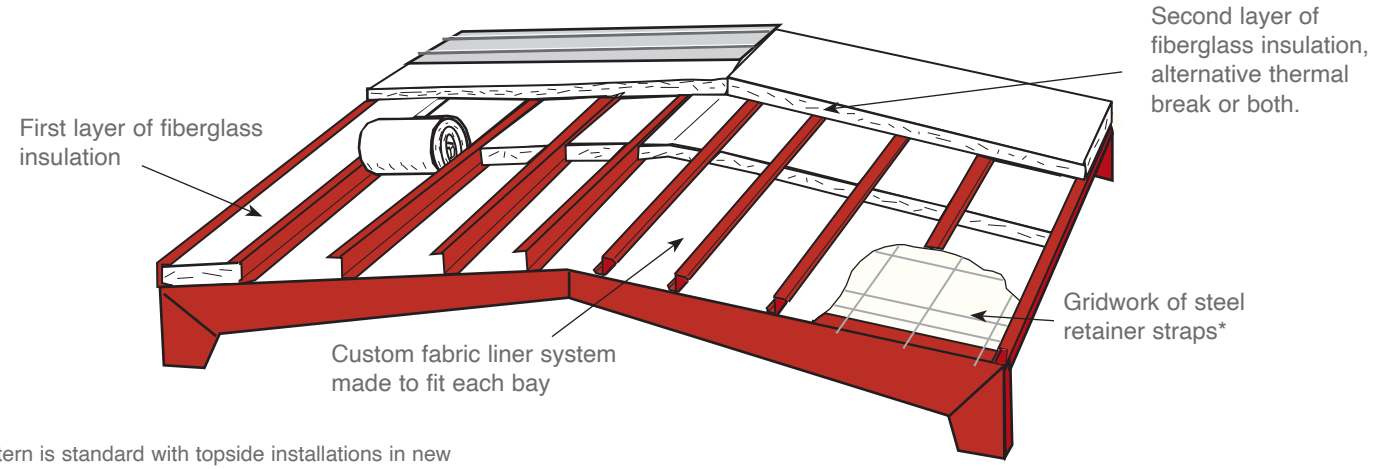
Thermal Design
INNOVATIVE ENERGY SAVING PRODUCTS

800.255.0776
www.thermaldesign.com

Table of Contents:

Third-Party Hot Box Tested | Ten-Year Limited Material Warranty | Free Synergy Design Consultation

Simple Saver System™



*A grid pattern is standard with topside installations in new buildings. Retrofit standard strap pattern is single direction.

System components are sold as a designed package and not sold separately.

Superior Insulation System

The Simple Saver System is designed to create the average depth space needed for the full specified insulation thickness plus deflection and deliver the maximum possible insulation performance. Conductive structural members penetrating through the insulation require thermal breaks and may reduce overall performance. Properly sealed ceiling and wall systems prevent air infiltration and isolate the conductive steel structure from the conditioned space air. The Simple Saver System provides both low U-values and low emissivity values, stopping over 90% of all three types of heat transfer.

Engineered Strength for Safety – FREE

The Simple Saver roof liner system is engineered to be strong and durable for job site safety, is OSHA Compliant and a fall arrest system. The super strong liner system withstands the rigors of installation and provides workers beneath with protection from falling objects. The liner system then permanently supports the insulation. This limits the liability of owners, designers and contractors (Standard 29 CFR Definitions–1926.751 "Controlling Contractor"). The fall protection benefits are free, but only with the legitimate, Simple Saver System.

Class A Fire Safety Rating – FREE

The vapor retarder fabric liner of the standard Simple Saver System is self-extinguishing as it complies with: ASTM 1136, Types I through VI; NFPA 701 Large Scale; flame spread of 25 or less per ASTM E-84 (equivalent to NFPA 255, ANSI 2.5 or UL/ULC 723). Special order or modified products may be tested upon order by the purchaser for the costs of the tests.

Absorbs Sound – FREE

Provides excellent yet inexpensive acoustic finishes where conventional suspended ceilings are not appropriate or not in the budget. Standard system has 75% sound absorption (NRC 0.75). This superb by-product of the Simple Saver System comes free with the system. Excellent for gymnasiums, arenas, houses of worship, manufacturing, entertainment spaces and multipurpose rooms.

Some minor wrinkles may be visible due to the large pieces of support fabric used.

Finishes and Decorates – FREE

The Simple Saver System's free, bright white appearance is often used as an exposed interior finish in buildings. Purlins and girts are hidden, eliminating the cost to paint them. Various colors and strap patterns may be specified to obtain unique aesthetic appearances. The ceiling and wall surfaces are washable and easy to maintain.

Brightens Interiors – FREE

The bright white, light reflective surface enhances efficiency of the lighting system, eliminating about 30% of the number of light fixtures. Light reflectance tests of up to 85% are achieved. Savings of lighting equipment, wiring and electricity result in substantial dollar savings for the building owner. Low ultraviolet producing light sources or UV filtered lenses are necessary to prevent UV degradation and obtain optimum service life.

Helps Prevent Condensation – FREE

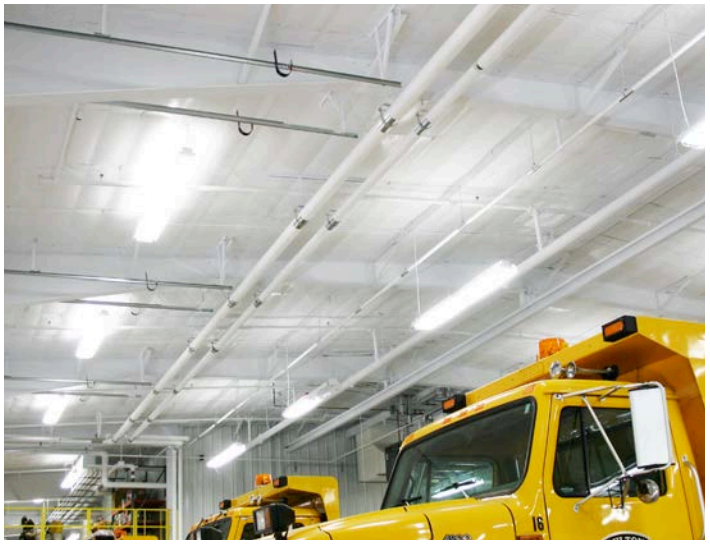
The high strength Simple Saver fabric liner isolates the cold conductive purlin and girt surfaces from the inside conditioned air, reducing the exposed conductive purlin and girt surface areas from about 50% of the roof and wall areas to a fraction of 1%. Water vapor transmission rate is ≤ 0.02 grains per hour/sq. ft. for the standard fabric liner. Factory-made, triple extrusion welded seams are for safety and uniquely pressure resistant to assure the very low vapor permeance and vapor retarder integrity as opposed to thousands of staple holes or hidden, unsealed lap joints typical with laminated insulation.

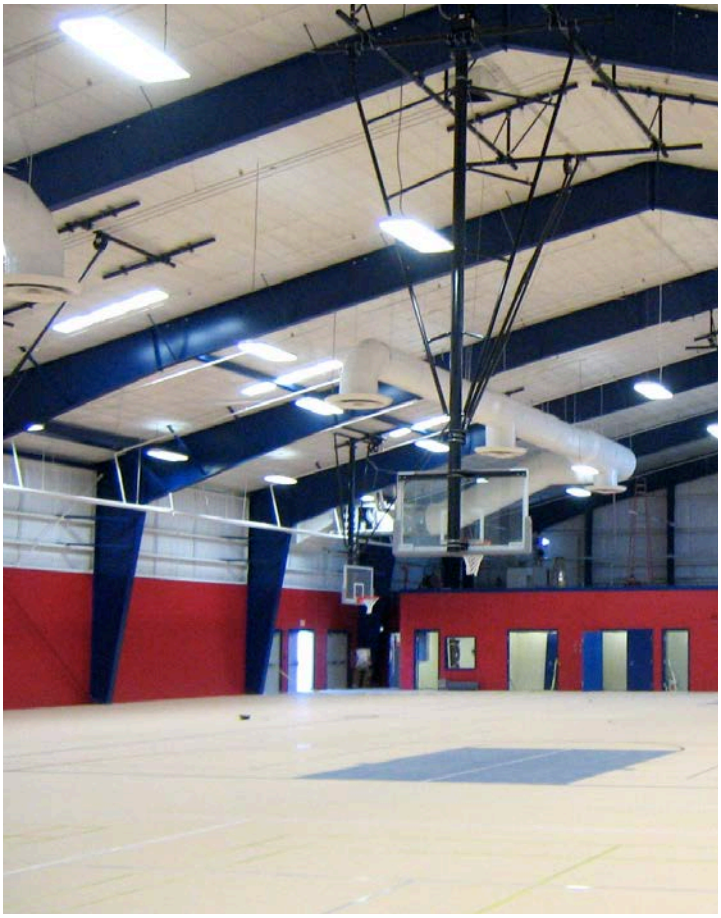
Typical Fiberglass Insulation Sizes

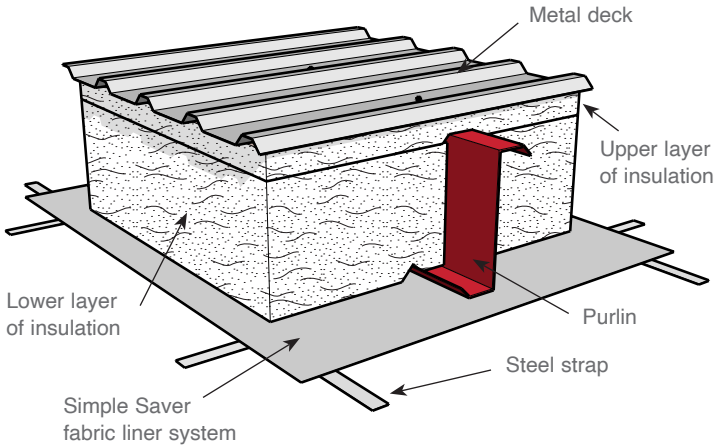
Thickness	Pre-Installed R-Value	Width* (in)	Length
9"	R-30	48 • 60	35'
8"	R-25	48 • 60	40'
6"	R-19	36 • 48 • 60 • 72	50'
4"	R-13	36 • 48 • 60 • 72	75'
3 1/2"	R-11	48 • 60 • 72	75'
3"	R-10	36 • 48 • 60 • 72	100'

Other cut sizes available.

Simple Saver System™







Strapping – Simple Saver System uses corrosion resistant, 1" wide x .020 UVMAX™ strapping that is twice as strong with a dependable 100,000 lbs /square inch tensile strength. Strapping is color matched to the fabric and ships in 1,500 ft. oscillated wound coils. Each installed strap is continuous, no field splicing is needed.

Fasteners – Simple Saver fasteners have sealing washers and are color matched to the fabric liner system. Available in multiple types and sizes depending upon the substrate type.

Syseal™ Tapes & Sealants – Thermal Design has formulated special products for fast application and the optimal seal strength of the Simple Saver fabric liners.

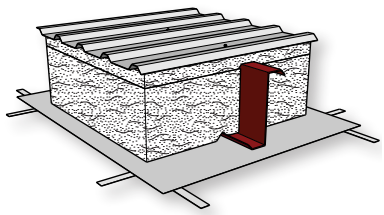
Fabric Liner

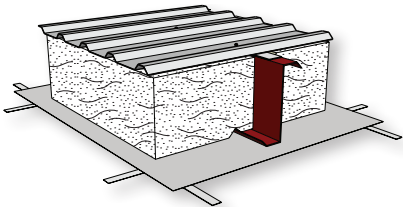
The UVMAX™ coated fabric is a proprietary woven, high density polyethylene fabric which provides a Class A fire retardant rating. Our UVMAX™ white maximizes total light reflectivity. The fabric liner can also be perforated for unique building conditions. The durable Simple Saver fabric liner is over 300% stronger than typical metal building insulation facings. Request a free sample!

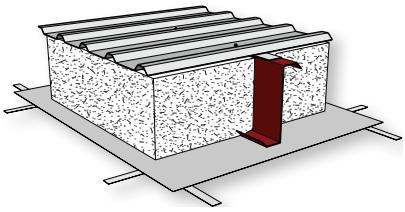
White or Super White | Black | Silver Aspen | Toni Taupe™ | Other Colors Available

Specific fabric color may not be an exact match of the examples show above.

New Roof Construction







Thermal spacer blocks may be added to increase insulation space and further reduce conduction.

Double Layer Systems

The upper layer of fiberglass is installed between roof decking and the structure to reduce thermal conduction.

Single Layer Systems

Thermal breaks are recommended between roof decking and the structure to reduce thermal conduction.

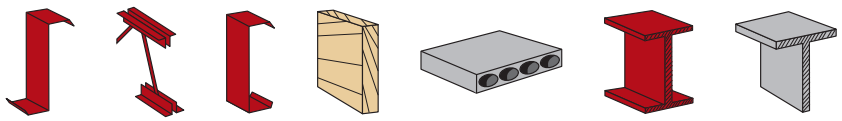
Blown-in Systems

Blown-in systems fill nearly every crack and crevice for maximum thermal performance.

The Simple Saver System™ is a fabric liner system that minimizes insulation compression and isolates the conductive purlins from the inside conditioned air.

The Simple Saver fabric liner system is custom made for each order and the Syseal™ fabric liner typically spans the entire bay's width and length in one piece. It is supported by a grid pattern of tensioned steel straps installed below the purlins or joists. This creates the required space for full insulation thickness between the structural members. In multi-layer systems the upper layer of unfaced insulation may be installed over the structural members with minimal compression.

Common Roof Structures In Which The System May Be Used



Production Rates

The Simple Saver System is designed for rapid topside installation and optimum insulation performance with 80% fewer field seams. The production rates below are conservative ranges for installation of a single or double-layer system in typical purlin roofs under average conditions with an experienced crew.

Roof: 150-200 sq. ft./man-hour

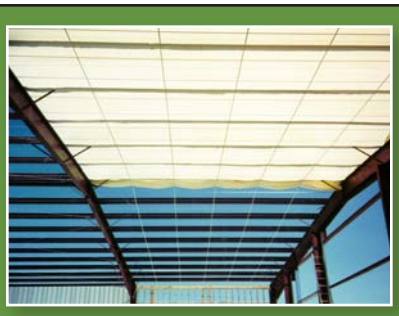
Walls: 120-170 sq. ft./man-hour

In the summer of 2008, Thermal Design commissioned a third party time study which concluded production rates of over 235 sq. ft./man-hour. This equates to less than 25 cents per sq. ft. installation labor costs based on a $50 per hour labor rate. Contact Thermal Design for time study details.

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"

Multiple layers and appropriate space is required for any of these systems.

Install the longitudinal and traverse steel strapping to create the strap platform.



Large custom-sized fabric liner installs quickly on the steel strap platform.

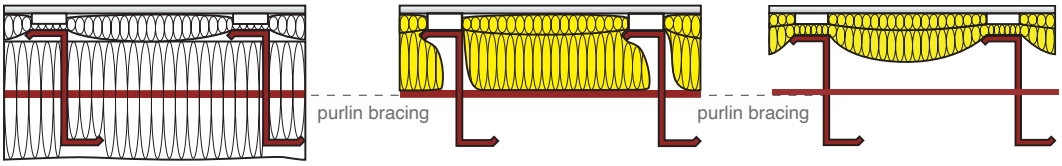
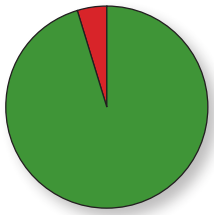
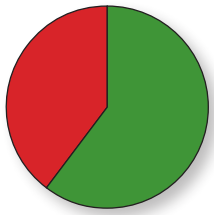
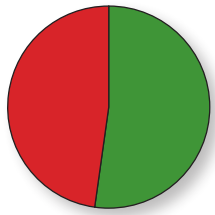
View of fabric liner positioned on strap platform and fastened to the structure.

Performance Comparisons of R-30 Systems

Values are based on insulation assemblies in a 5' purlin space with a standing seam roof and thermal block. The hot box tested assemblies were tested in the horizontal position with vertical upward heat flow. Performance will vary with structural spacing and assembly orientation. Visit www.thermaldesign.com for more information.

A. ASTM-C 1363 hot box tests, Oak Ridge National Laboratory

B. Finite Element Modeling, NAIMA MB304 (8/06), System 3

	Simple Saver "Liner System"	Long Tab System "Filled Cavity"	Sag & Bag "Double Layer"
			
			
	4.7% loss	**39.7% loss**	**47.0% loss**
Pre-Installed R-value:	**R-30 (R19+R11)**	**R-29 (R19+R10)**	**R-30 (R19+R11)**
U-value:	**U-0.035 [A]**	**U-0.057 [B]**	**U-0.063 [A]**
Installed R-value:	**R-28.6**	**R-17.5**	**R-15.9**

Items to consider when ordering buildings.

Standardized Purlin Spacings

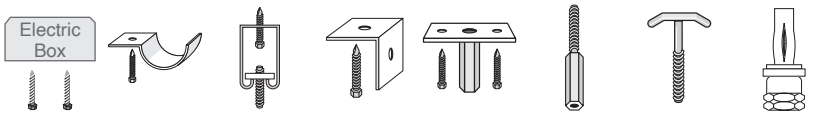
Custom made insulation widths are available however, by simply specifying or requesting standardized purlin spaces from the building manufacturer, you will increase your installation productivity, reduce waste and shorten lead times for delivery. Specify 3', 4' and 5' purlin spacings from the building manufacturer that match standard insulation widths. There is no reason why there should be more than one non-standard width spacing on each side of the ridge of any building.

Rafter Brace Clips

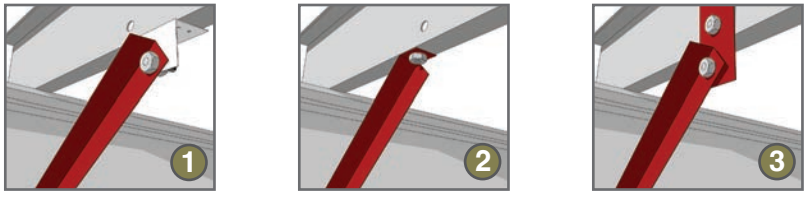
The design of the rafter brace attachment to the bottom plane of the purlin speeds installation of the liner system and provides superior vapor seal. Specify one of these common details when ordering your building.

Hanging Methods

These are some of the many common hangers that can be used with the Simple Saver System without the need to cut the fabric liner. Compression seals or caulk type sealants may be used with any hanger type. Contact Thermal Design at **800.255.0776** for additional hanger details or sourcing.



Simple Fastener | Hole Strap | Channel Strut | Angle Hanger | Threaded Plate Hanger | Threaded Hanger | Bar Joist Hanger | Sammy X-Press™ before Fastening



Clips now available in white or black!

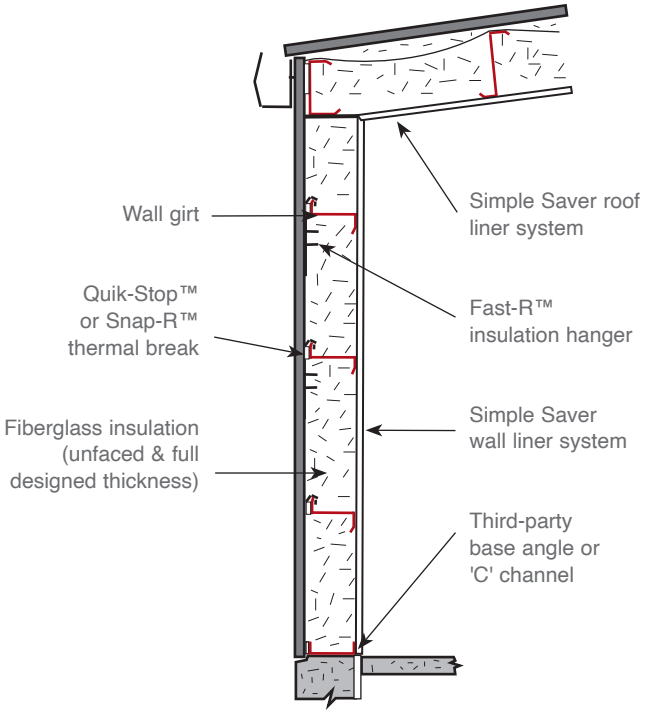
Fabric liner trimmed and sealed to the rafter.

Install fiberglass insulation between and over purlins.

Finished ceiling and wall system in school gymnasium.

New Wall Construction

Metal Building Wall Detail



Metal Building Wall System

The Simple Saver wall insulation system is installed completely from the inside, out of the wind and weather. Unfaced insulation lengths are simply cut to fit the girt spacings and then impaled onto Fast-R™ insulation hangers. This prevents the fiberglass from sagging. The fabric liner is then installed on the inside plane of the wall to isolate the insulation and conductive girts from the conditioned air. This also provides a clean, bright, finished appearance.

Filling The Full Girt Depth Is Required

Single layer systems help speed the wall sheeting process and a thick single layer of unfaced insulation is preferred to two layers of compressed laminated insulation in walls. The Simple Saver single layer liner systems prevent bulging and dimpling of the metal wall panels which is common with laminated insulation compressed between the panels and through-fastened to the sub-structure.

The full depth should be filled to minimize loss of thermal performance caused by convection currents. Wall panel laps, trim and flashing should be sealed per codes to prevent air infiltration into the insulation. Syseal Building Wrap™ is also available for the ultimate in air leakage resistance.

The Simple Saver insulation system installs in virtually any wall structure type to make any building envelope energy efficient.

Quik-Stop™ Thermal Break

Insulative foam thermal break with adhesive back. Recommended between metal wall panels and metal sub-structure with single layer insulation systems.

Minimizes thermal conduction between metal wall panels or decking and the metal sub-structure.

108' long x 3 " width x 3/16" thick

Fast-R™ Wall Insulation Hanger

Preformed and punched Fast-R hangers attach to the girts or wall surfaces.

These save time and hold the insulation in permanent position.

Packed 80 hangers/ box, 23.5” long x 1” wide, 20 Gauge

One box covers approximately 1,000 sq. ft.

Snap-R™ Thermal Block

Individual “snap-on” EPS thermal blocks save installation time and will not blow away with the wind.

24" long x 4" wide x designed thickness.

Standard above flange thicknesses are 3/8" and 1" thick which accommodates a 3" purlin flange. Other thicknesses are available to create the required space for any desired insulation thickness to fully expand!

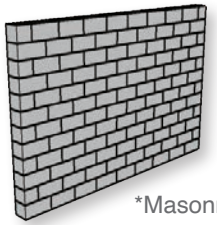
Quik-Stop™ thermal break tape applied to outside of girts.

Secure the Fast-R™ insulation hangers to the wall structure with the punched arrows bent 90 degrees from the vertical.

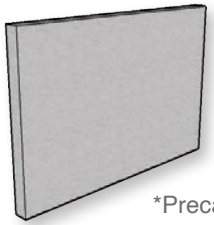
Insulation is cut to fit the full space and impaled on the Fast-R™ hangers.

The Simple Saver System™ may be installed in a variety of common wall structures.

**Flat surfaces require stand-off brackets*

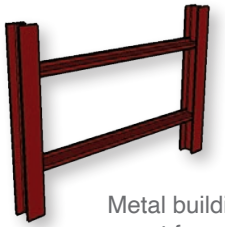


*Masonry



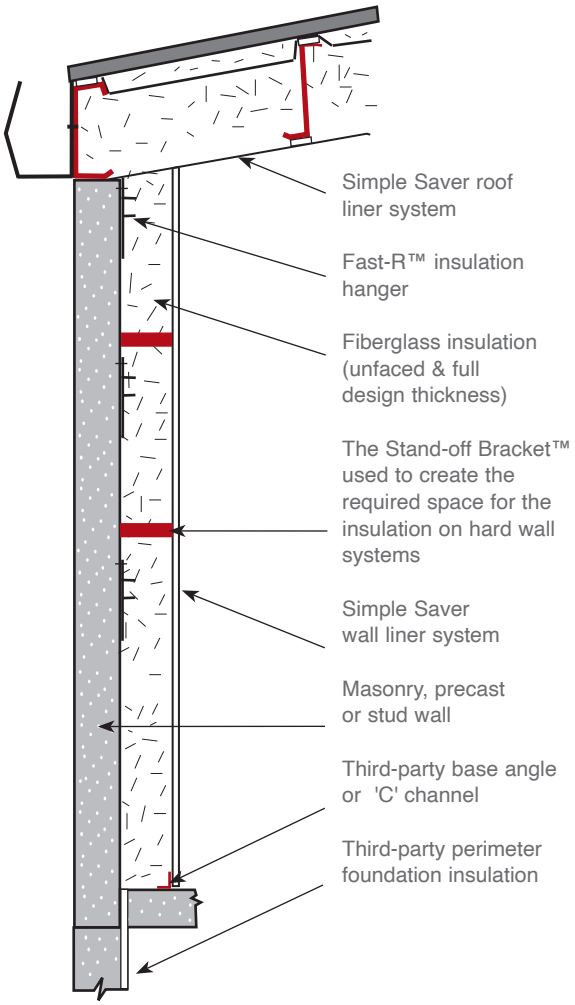
*Precast concrete

Wood or steel stud



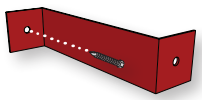
Metal building or post frame wall

Hard Wall Detail



Stand-off 'Z' Brackets™

Brackets are purchased separately and include fasteners. Other sizes available.



3”
4”
6”
8”

Stand-off Bracket System for Hard Walls (conditions may vary).

Stand-off Bracket shown with optional steel or wood girt attached. Girts are required for the attachment of optional protective liner panels.

Simple Saver™ Wall Systems	
Preinstalled R-Value	Thickness
R-10	3"
R-11	3 1/2"
R-13	4"
R-19	6"
R-25	8"
R-30	9"
R-38**	12"

**Two insulation layers and stand-off brackets may be required to provide necessary insulation depth.

Other combinations are available upon request.

Installed performance is currently under study and indicate up to a 50% reduction of installed performance in vertical orientation using typical low density fiberglass metal building insulation.

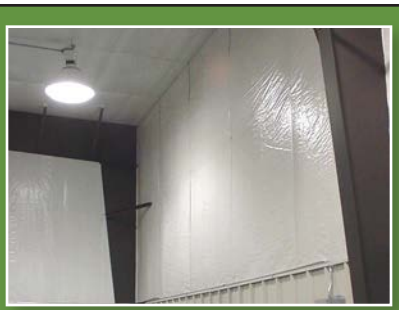
Call Thermal Design at 800.255.0776 for analysis of your specific application.

Liner Panel

Optional steel or plywood wall liner panels protect the bottom of the wall fabric liner system.

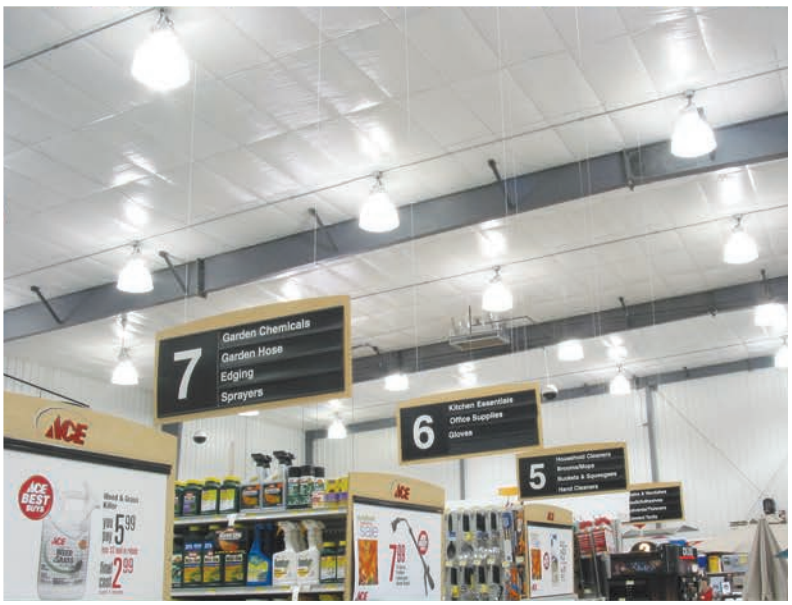
Fiberglass is full thickness and fills the girt depth.

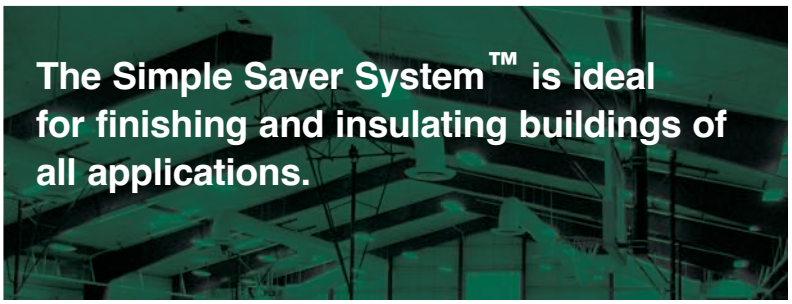
Fabric liner with steel straps installed to create clean, finished look.



Finished wall and ceiling in manufacturing facility.

Common Uses

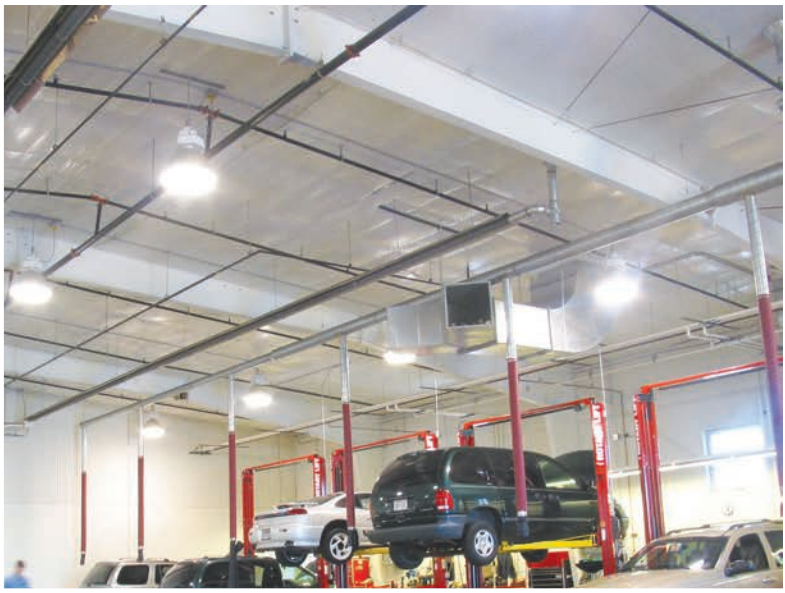




Many Buildings and Uses

Gymnasiums & Arenas	Manufacturing Facilities	Fire & Emergency	Aviation Ha
Tennis Facilities	Warehouses	Schools & Universities	Agricultural B
Indoor Ice Rinks	Transportation Centers	Worship Facilities	Winerie
Equestrian Centers	Distribution Facilities	Community Centers	Detention C

Common Uses



One Insulation System

n Hangars	Retail Stores	Convention Centers	Municipal Buildings
al Buildings	Offices	Casinos	Federal & State Facilities
neries	Big Box Stores	Entertainment Venues	Military Facilities
n Centers	Vehicle Showrooms	Theaters	Public Works & Recycling

Retrofit Roof & Walls

Before		After
Compressed insulation results in poor thermal and acoustical performance.	Thermal & Acoustical Performance	Added insulation greatly increases thermal performance and acoustic absorption.
The vapor retarder faced insulation is compressed over the tops of the purlins which typically are seasonally below the dew point temperature resulting in condensation, corrosion and shortened roof life.	Vapor Retarder Placement	The vapor retarder is properly placed below the purlins to help prevent condensation and corrosion which extends the life of the roof.
Purlins and girts act like fins on a radiator. In the winter heat escapes the building and in the summer, heat radiates into the building.	Heat Transfer	Purlins and girts are completely covered by the Simple Saver fabric liner system which also encapsulates the insulation space.
The exposed structure absorbs light and casts shadows requiring unnecessary lighting.	Light Reflectivity	The fabric liner system is designed to have excellent light reflectivity and diffusion with the purlins and girts fully covered.
Stapled facing seams have opened up and the vapor retarder facing has cracked and ripped, allowing moisture to reach the conductive metal deck panels.	Durability & Maintenance	The one piece, triple extrusion welded seam vapor retarder fabric is a high strength, durable fabric liner that holds up to the abuse inside the building and is washable.
The building has an unfinished appearance, compressed insulation and conductive structure is exposed to the conditioned air.	The Choice Is Simple	Retrofitting with the Simple Saver System will provide a clean, bright finished appearance, maximize insulation performance and isolate conductive structure from the conditioned air.

A 50% savings of conditioning costs is common by retrofitting with the Simple Saver System™.

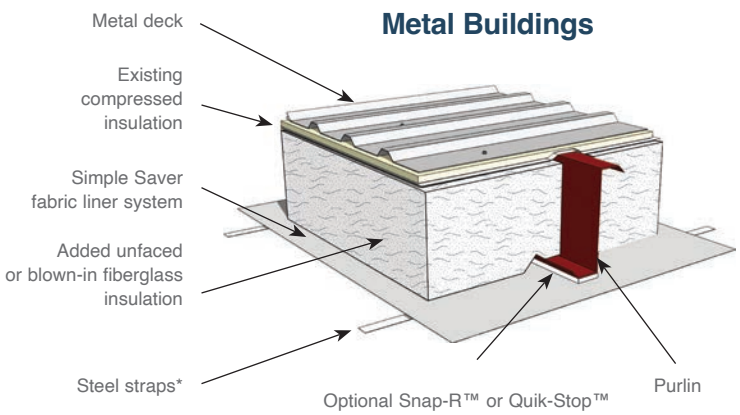
Install steel strap platform and the fabric liner across the bay.

Pull or blow-in fiberglass insulation between the purlins.

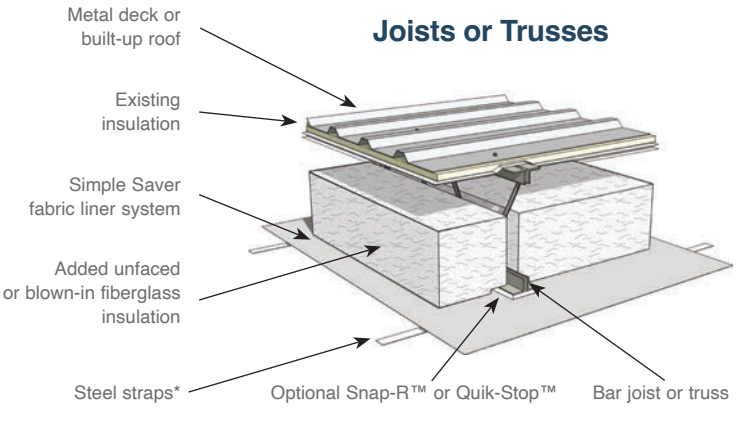
Fasten and seal the fabric liner edge to the rafter.

The Retrofit Simple Saver System™ can be installed in virtually any roof or wall structure.

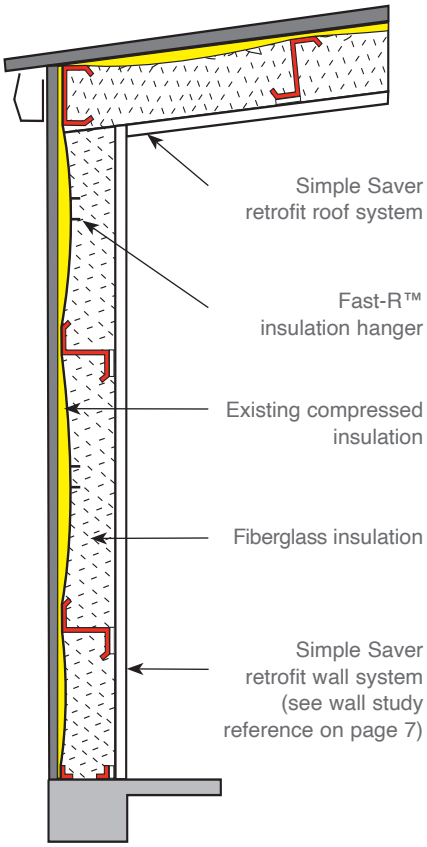
Metal Buildings



Joists or Trusses



*Standard retrofit strap pattern is one direction, 30-inches on-center. Retrofit grid pattern system also available for small additional cost.



Install Today, Save Tonight

Most existing commercial and industrial buildings have obsolete energy systems for today's higher energy costs. Pre-engineered metal buildings are particularity obsolete because of the poor insulation methods which compress the insulation and leave the conductive steel purlins and girts exposed. Retrofitting with the Simple Saver System and fiberglass insulation will start saving immediately and dramatically enhance the interior appearance. Tax deductions may apply.

Advanced Installation

Significantly higher production rates are achieved if the Simple Saver System is installed before other trades (plumbing, electric, heating). The system can also be installed after those trades have completed however the installation is more time consuming and will be more expensive.

R-Value of Existing Compressed Metal Building Insulation

Pre-Installed R-Value	U-Value	Insulation + Structure R-value
R-10 (3")	U-0.184	R-5.4
R-13 (4")	U-0.174	R-5.8
R-19 (6")	U-0.151	R-6.6

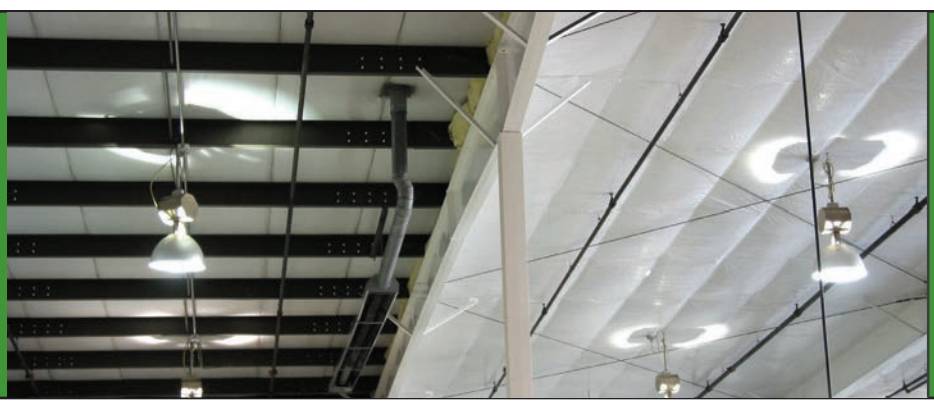
Based upon purlin spacing 60" on-center with faced insulation compressed between the structure and the through-fastened steel panels. Based on proposed ASHRAE 90.1-2007 Addendum bb.

Retrofit Roof Systems

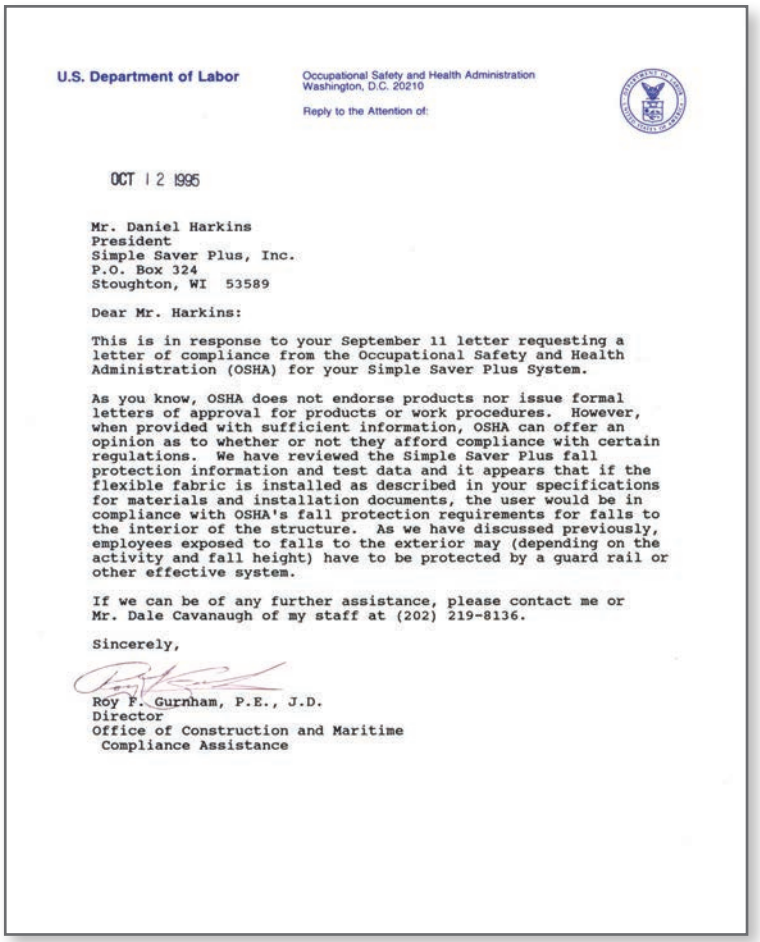
R-Value of added insulation subject to space available. Higher values are available upon request.

Insulation Thickness	Added Pre-Installed R-Value
3"	R-10
3 1/2"	R-11
4"	R-13
6"	R-19
8"	R-25
9"	R-30

The values shown above are the values of the added Simple Saver System insulation thickness. For a total insulation value, add the R-value of the retrofit insulation system to the existing installed performance. The performance of retrofit systems varies and minor performance adjustments will be required for conductive structures estimated to be about 10%.



- Lowers Energy Costs to 50% or More
- Improves Interior Appearance
- Increases Light Levels with White Liner System
- Helps Prevent Condensation
- Increases Thermal Efficiency
- Creates Quiet Interiors with Acoustic Absorption
- Prevents Corrosion and Extends Roof Life
- Seals Off Dust-Collecting Structure
- Lowers Maintenance Costs



U.S. Department of Labor

Occupational Safety and Health Administration
Washington, D.C. 20210

Reply to the Attention of:

OCT 12 1995

Mr. Daniel Harkins
President
Simple Saver Plus, Inc.
P.O. Box 324
Stoughton, WI 53589

Dear Mr. Harkins:

This is in response to your September 11 letter requesting a letter of compliance from the Occupational Safety and Health Administration (OSHA) for your Simple Saver Plus System.

As you know, OSHA does not endorse products nor issue formal letters of approval for products or work procedures. However, when provided with sufficient information, OSHA can offer an opinion as to whether or not they afford compliance with certain regulations. We have reviewed the Simple Saver Plus fall protection information and test data and it appears that if the flexible fabric is installed as described in your specifications for materials and installation documents, the user would be in compliance with OSHA's fall protection requirements for falls to the interior of the structure. As we have discussed previously, employees exposed to falls to the exterior may (depending on the activity and fall height) have to be protected by a guard rail or other effective system.

If we can be of any further assistance, please contact me or Mr. Dale Cavanaugh of my staff at (202) 219-8136.

Sincerely,

Roy P. Gurnham, P.E., J.D.
Director
Office of Construction and Maritime
Compliance Assistance

Fall Protection

The Simple Saver Liner System quickly installs from lifts and the workers are then safe to work from above without the need to be restrained by cumbersome lanyards or restricted to controlled decking zones. Effective January 1st of 2001, Thermal Design added the fall protection as a free standard feature of the Simple Saver System at no additional cost. The Simple Saver System requires two critical strap end fasteners to safely pass the test and achieve safe fall protection.

Custom Project Drawings and Instructions

Detailed, custom project drawings are standard for each building. Specific strap and fastener locations, bay spacings, fabric sizes and exact insulation sizes and placements are all provided for the Simple Saver System to achieve a safe effective installation.

OSHA Steel Erection Standard

On January 18 of 2001, the new steel erection standard was published in the Federal Register. The new standard requires full fall protection for steel erectors and insulators at heights greater than 15 feet. This rule became effective July 18, 2001 (www.osha.gov). Owners, architects and upline contractors are potentially liable for compliance of workers on projects under their control (Standard 29 CFR Definitions–1926.751 "Controlling Contractor"). The Federal Registry, Vol. 66 No. 12 states that:

"A controlling contractor is an entity that has general supervisory authority over the work site such that it can correct safety and health violations itself or have others correct them."

In the past, steel erectors and insulators were exempt on buildings of 25 feet or less. The revised rule requires full fall protection greater than 15 feet in height. The consequence is that most buildings are no longer exempt from fall protection compliance. Workers are required to tie off or use alternative means of fall protection, resulting in a significant loss of productivity. The Simple Saver System solves this problem and dramatically increases productivity by providing passive fall protection.

The Simple Saver System™ offers free OSHA compliant, alternative fall protection for new pre-engineered metal building purlin roof systems. Perimeter protection within six feet of any edge is required using safety harness and lanyard. Thermal Design has tested the system as instructed by OSHA and the system has passed the stringent test.

The complete Simple Saver System including insulation can be installed for approximately 25 cents per sq. ft. labor costs. Go to www.thermaldesign.com to review the third party time study.

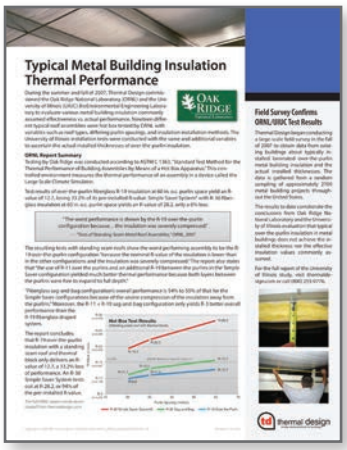
"Ask for it by Name, Rely on it for Safety"

Training & Technical Support

Reduce your liability, keep installers safe and speed up your construction time. Contact us for specifications, design manuals, installation instructions and training videos.
On site installation and safety training is also available. Contact Thermal Design for details at **800.255.0776**.

Energy Code Compliant

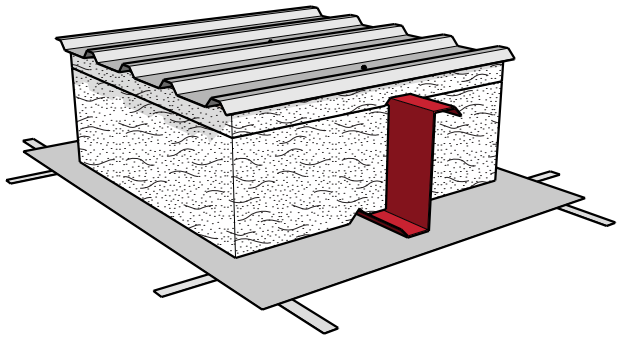
The Simple Saver Liner System with fiberglass insulation easily surpasses the most stringent local, state and government code requirements by providing both low U-values and low emissivity values, stopping over 90% of all three types of heat transfer. Thermal Design has commissioned numerous hot box tests which were done in accordance with ASTM C-1363, "Standard Test Method for the Thermal Performance of Building Assemblies by Means of a Hot Box Apparatus." Hot box tests, studies, and reports that pertain to the true effectiveness of "traditional" metal building insulation and the Simple Saver System are available upon request. Contact Thermal Design at **800.255.0776 or www.thermaldesign.com** for test and technical information.



Screw Down Roofs

Screw down roofs can be approximately $0.50-$0.75 less expensive than a standing seam roof just considering the material cost. These savings could be invested towards the roof and wall insulation to help offset project costs and still meet today's and tomorrow's stringent code requirements.

The verified performance of the Simple Saver System installed in a screw down roof exceeds all "traditional over-the-purlin" metal building insulation assemblies currently listed in ASHRAE 90.1, IECC and COMcheck™.



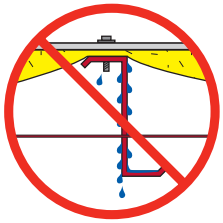
Third party hot box test verify U-values as low as U-0.0203 can be achieved with the Simple Saver System installed in a screw down roof.

Simple Saver vs. Traditional Methods

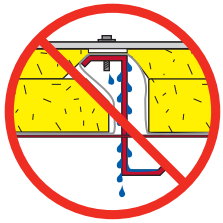
With today's high energy costs and the potential for continued increases, owners, designers, builders and the government are all focusing their attention on more energy efficient buildings. Improving the building envelope design and maximizing your insulation performance will return more value to the owner than any other building material going into the project. The Simple Saver System is designed to solve the defects of "traditional" compression insulating methods. Properly placing and sealing the liner system to create the full required insulation space will virtually eliminate insulation compression and assure the ultimate performance.

Simple Saver "Liner System"

Over-the-Purlin "Single/Double Layer"



Long Tab System "Filled Cavity"



SIMPLE SAVER SYSTEM

- Full Thickness fiberglass Insulation
- Proper Vapor Retarder Placement
- Purlins Fully Encapsulated
- Finished Appearance
- Triple Extrusion Welded Seams
- No Bracing Interference
- Prevents Most Condensation

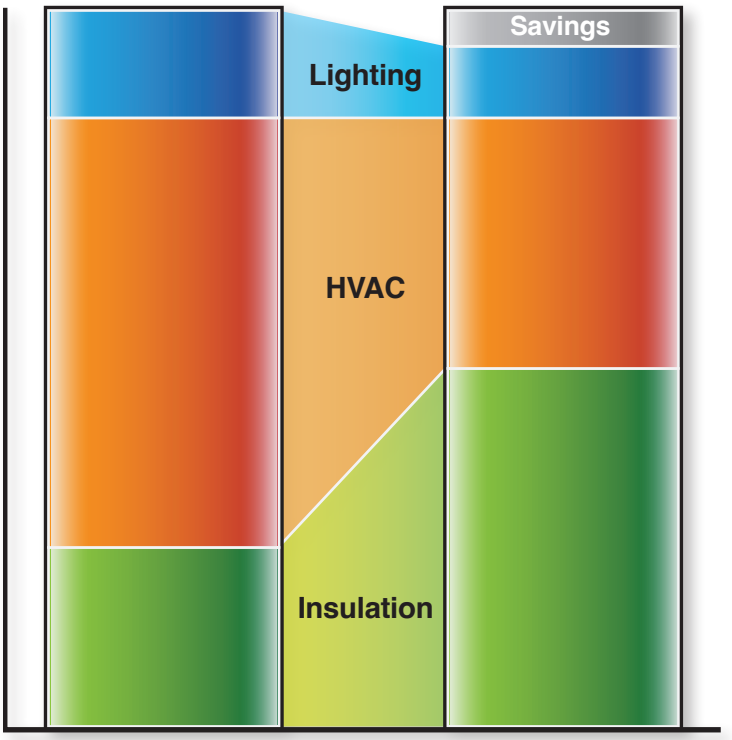
TRADITIONAL METHODS

- Severely Compressed Insulation
- Defective Vapor Retarder Placement
- Voids in Insulation
- Exposed Conductive Structure
- Unfinished Appearance
- Poorly Sealed Seams
- Bracing Interference

Simple Saver Synergy Design℠

It does not have to cost more to build an energy efficient building.

The Simple Saver Synergy Design method reduces costly energy consuming equipment and related costs of traditional construction to pay for energy saving improvements. The result is an energy efficient building that typically does not cost more to build, but saves money for the lifetime of the building. Here is how it is done:



Graph is for illustrative purposes only. Additonal savings are available.

Initial Construction Cost for Energy Package

Insulation and Interior Finishing

Super-insulate with the Simple Saver System to control heat loss and gain through the sealed building envelope. The Syseal™ fabrics' bright white appearance is also used as an exposed interior finish.

HVAC

Reduce HVAC equipment, installation costs and related costs such as gas piping and wiring by adjusting the design due to the superior thermal performance. Use EnergyCraft HVAC appliances to further reduce installation and other costs such as structural, roof curbs, etc.

Lighting

Reduce the number of fixtures, wiring and circuit costs required to reach desired light levels. Reductions up to 30% are achieved because of the high reflectivity of the Simple Saver System. Use high-efficiency EnergyCraft plug-in luminaires to further reduce installation costs.

Incentives

Take advantage of available tax incentives, loans and grants that can further reduce costs when compared with typical construction.

Energy and Maintenance

Save on energy and maintenance costs for the life of the building.

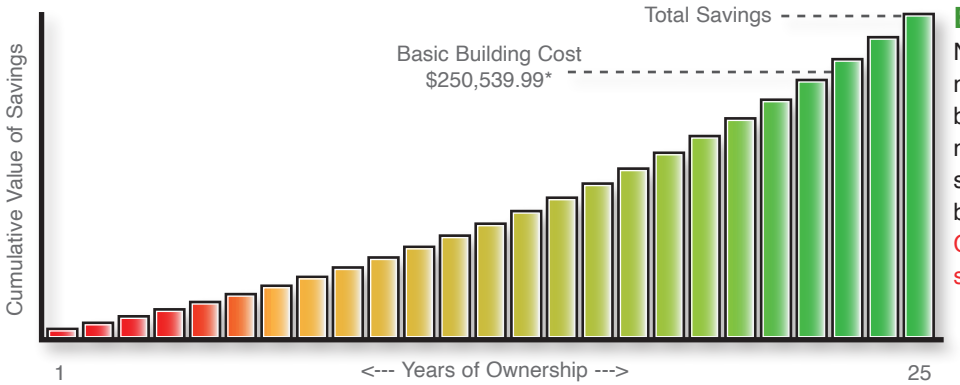
Project Cost Trade-offs

In addition to the savings in HVAC and lighting systems, the Simple Saver Synergy Design offers savings in building structure, construction safety, aesthetics, acoustics, finishes and other potential saving areas.

Potential Savings Areas

Through Fall Protection (OSHA compliant)	$0.20 - $0.35 / sq. ft.
Painting/Finishing Savings (purlins & girts encapsulated)	$0.25 - $0.45 / sq. ft.
Standing Seam Roof Savings	$0.15 - $0.75 / sq. ft.
Mechanical Equipment Reductions & Savings	$0.30 - $1.00 / sq. ft.
Lighting & Acoustic Treatment Savings	$0.00 - $1.00 / sq. ft.
Downsizing Utility Service	$0.00 - $1.00 / sq. ft.
Suspended Ceilings, Dry Wall Ceilings and Walls	$1.50 - $3.00 / sq. ft.

Ownership Savings



Energy Savings Pay for Basic Buildings!

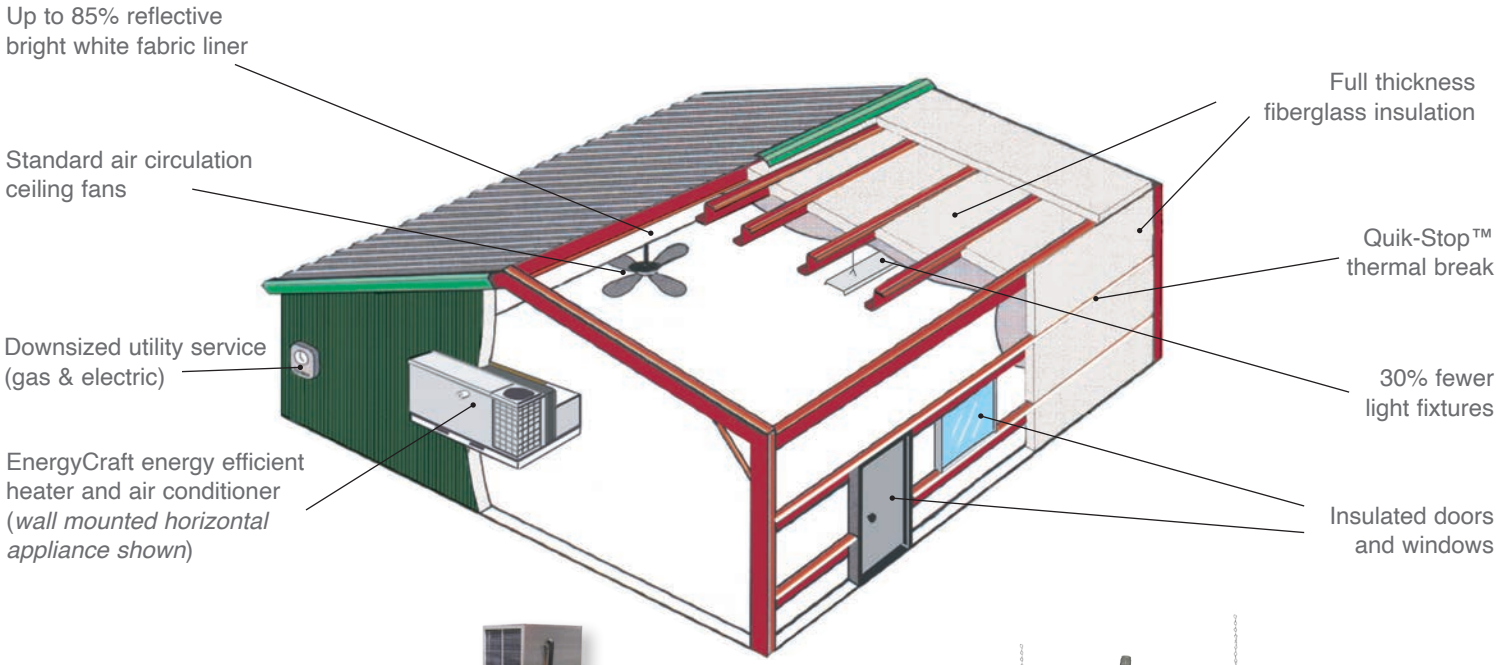
Not only can energy efficient buildings be built with no added cost compared to traditional metal buildings, the owner saves monthly on energy and maintenance costs. The value of these monthly savings when compared with traditional metal buildings can pay for the building itself.

Call a Synergy Design Expert to discuss potential savings for your project.

*Example calculation for a 10,000 square foot building in Nebraska. Each building is unique and results will vary. Value of savings assume a 2% average yearly increase in energy costs and investing savings at 4.7% yearly rate of return.

Call for a FREE Synergy Design Analysis of your upcoming project! New or Retrofit!

Building Cut-away of Simple Saver System™ and EnergyCraft™ Energy Efficient Systems



Wall Mount Horizontal Appliance

Floor Mount Vertical Appliance

EnergyCraft Luminaires

EnergyCraft Appliances

EnergyCraft appliances are pre-fabricated, pre-wired, self contained, "Ready-to-Run" units that simply mount into place and operate when utilities are connected. A framed opening is provided by the contractor during the building erection process. These appliances are designed specifically to work with energy efficient buildings using the Simple Saver System. Thermal Design will provide a quotation for the recommended installation and Thermal Design guarantees the sizing of the equipment for the quoted parameters. A thermostat and cord are supplied with all units. Units may be ducted by third party.

95% high efficiency gas heaters

14 & 16 SEER rated air conditioners

HVAC units are designed as appliances for fast installation

No license normally required for EnergyCraft packaged units

Heat pumps that work to 30° below zero

5 year parts guarantee & lifetime heat exchanger warranty

Appliances are available in a variety of combinations. Choose from various options:

Fuel Source: Gas, Electric or Propane

Unit Type: Package, Split, Cool or Heat only

Orientation: Horizontal or Vertical

EnergyCraft Luminaires

EnergyCraft Octalux™ & Quintalux™ high efficiency, high bay fluorescent light fixtures are designed to lower operating costs by about 50% while providing the same amount of light when compared to traditional metal halide fixtures. The 94% efficiency, durable construction and high light output make this one of the most effective investments in your building design.

UL labeled and made in the USA

4 lamp or 6 lamp fixtures available with T5 or T8 lamps

6 foot cord and NEMA certified twist-lock plug

Center mounted ballast

1 year fixture and 5 year ballast warranty

Available Accessories

Ceiling Fans	**Lamp Protectors**
Exhaust Fans	**Daylight Sensors**
Intake Louvers	**Occupancy Sensors**
Ventilation Systems	**Control Systems**
Economizers	**Heat Reclaimers**

EnergyCraft Wireless Management Products available soon for even more savings!

Complete Nationwide Service and Distribution Available!

Marketed by Simple Saver Services, LLC:

Each company is responsible only
for their respective product claims.

Guarantees, Warranties and Notices

Thermal Performance Guarantee

Please visit www.thermaldesign.com for Thermal Design's Thermal Performance Guarantee.

Ten-Year Limited Materials Warranty

The Simple Saver System™ has a limited warranty. Thermal Design warrants this product subject to certain conditions and exceptions. Ask the seller for a copy of the warranty. Please visit www.thermaldesign.com for full details regarding Simple Saver System's Ten-Year Limited Materials Warranty.

Notices

Specification values are typical data subject to normal manufacturing variations and are not meant to be guaranteed or limiting specifications. Thermal Design, Inc. reserves the right to improve and change component specifications without notice. Go to thermaldesign.com for current published information. Any information contained in the most recent edition of published brochures on thermaldesign.com replaces and supersedes all previous editions.

States and/or jurisdictions may have a variety of insulation regulations. Check for specific details regarding the insulation regulations that apply in your area.

Patents, Trademarks and Licenses

Unauthorized making, using or selling of this technology or trademarks or service marks or copyrighted works shall be each subject to a minimum royalty and lost profit per square foot of surface insulated from such unauthorized acts. Sellers of any component with the knowledge or intent that such component is to be used to evade the purchase of legitimate materials from authorized sources shall be held liable as contributory infringers and otherwise as lawful. All costs of collection, including legal fees and costs, shall be sought as damages for unauthorized use and infringement.

Simple Saver System™ Synergy Design™, Snap-R™, Stand-off 'Z' Brackets™, Quik-Stop™, Fast-R™, Syseal™, Syseal Building Wrap™, UVMAX™ and EnergyCraft™ are trademarks licensed to Thermal Design, Inc and Simple Saver Services, LLC. All trademarks are property of respective parties.

Simple Saver System™ manufactured by:

Thermal Design
INNOVATIVE ENERGY SAVING PRODUCTS
800.255.0776 | thermaldesign.com