

Simple Saver® Air-Tight™

Insulation & Finishing Liner System



Simple Saver® Air-Tight™ installation is similar to Thermal Design's standard installation however the system includes our Simple Saver Air-Tight Sealant™ along with additional guidance for installers and trades post installation. Simple Saver Air-Tight Sealant is estimated and provided to seal each perimeter piece of Syseal air barrier fabric.

Syseal® Fabric

Thermal Design's Syseal® fabric is woven reinforced high-density polyethylene yarns coated on both sides with a continuous white or colored polyethylene film. Syseal colors include White, Super White, Black, Silver Aspen, Forest Green, and Toni Taupe™.

Air Permeance: <0.004 cfm/ft (ASTM E2178)

Water Vapor Transmission Rating: <0.02 grains/hr-sf²

Fire Hazard Classification: Class A (ASTM E84)

Manufactured Seaming Method: Triple Extrusion Welded

Simple Saver Air-Tight Includes:

Syseal® Fabric - custom sized for each project.

UVMAX™ Steel Strap - color matched fabric and fall protection grade.

Syseal® Repair Tape - color matched fabric with adhesive backing.

Self-Drilling Fasteners - color matched with rubber sealing washers.

Instructions - details and recommendations for proper installation.

Insulation - high R-value uncompressed fiberglass (multiple layers & types).

Sealants - Simple Saver High-Tack Sealant™, Syseal Sticky Tape™ & Simple Saver Air-Tight Sealant™.

For over 40 years, Thermal Design has recognized the importance of insulation and minimizing air infiltration throughout the building thermal envelope. For decades, it has been a consistent and prominent feature of our Simple Saver design of large custom sized pieces of fabric manufactured to fit and seal large defined building areas to support high R-value uncompressed insulation.

- 1 - Meet Energy & Air Barrier Requirements
- 2 - Minimal Material Costs
- 3 - Smooth Learning Curve for Installers
- 4 - Easier to Visually Inspect
- 5 - OSHA Compliant Through Fall Protection



Simple Saver Air-Tight Solution

Energy codes and Standards contain requirements for commercial building envelopes to include a continuous air barrier to help minimize air infiltration and energy loss. Simple Saver Air-Tight provides solutions to help comply with the mandatory air barrier requirements.



1 - MATERIAL

Syseal® fabric with air permeability/<0.004 cfm/ft² at 75 Pa when tested in accordance with ASTM E2178.



2 - ASSEMBLY

Installed correctly and used in conjunction with other acceptable air barrier materials with an average air leakage <0.04 cfm/ft² at 75 Pa when tested in accordance with ASTM E2357, ASTM E1677, ASTM D8052, or ASTM E283.



3 - WHOLE BUILDING

Installed correctly and used in conjunction with other acceptable air barrier materials. Attention to detail and additional sealants, provided by Thermal Design are included. Buildings require a measured air leakage <0.40 cfm/ft² at 75 Pa when tested in accordance with ASTM E779 (or equivalent methods).



Manufactured by

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Simple Saver Air-Tight Sealant™ applied along rafter / column flanges, sealing the entire perimeter of the large pieces of Syseal roof and wall fabric. Also used in conjunction around framed openings and around attachment items penetrating the Syseal air barrier.

Ideal for Metal Building Roof and Walls

1 - DILIGENT INSTALLATION

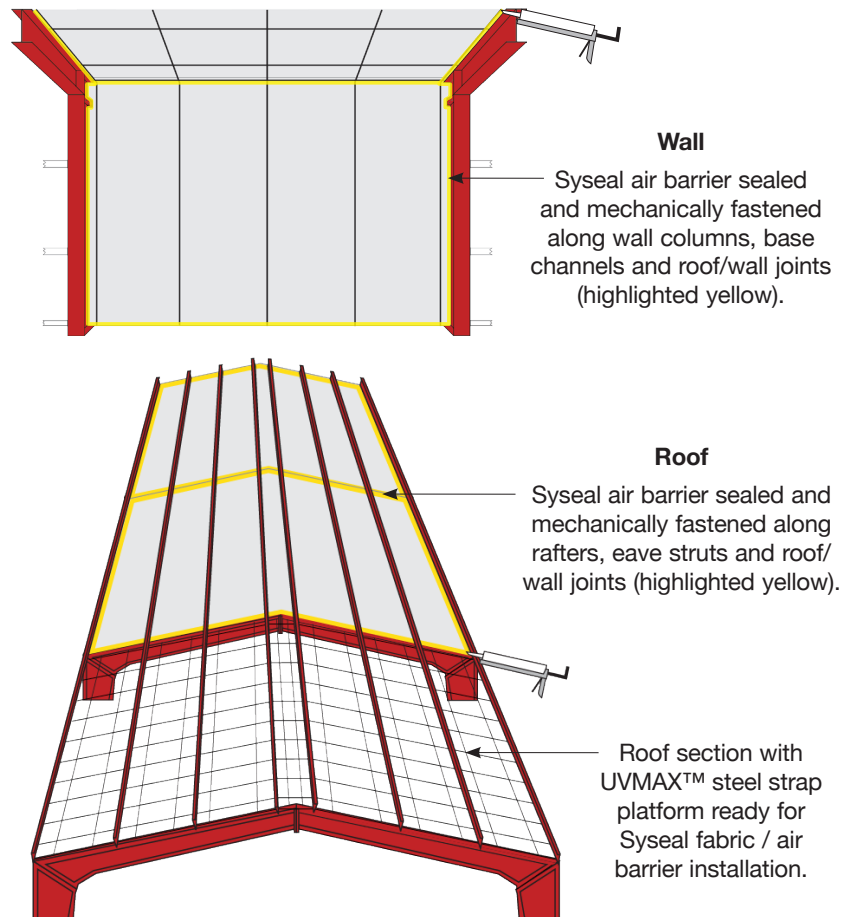
Most of the industry is already very familiar with installing our standard Simple Saver® roof and wall liner system however the attention to detail is even more important for air barrier testing. This includes other trades (mechanical, electrical, plumbing) working on project post air barrier installation. See Thermal Design's Overview Instructions for more information.

2 - MINIMAL MATERIAL COST

Additional material system cost is only Simple Saver Air-Tight Sealant™ (available in caulk tubes), which is estimated and included with your system. Minimal labor cost involved with added installation steps and attention to detail. Fraction of the cost of alternative methods and effectiveness.

3 - EASIER INSPECTION

Visual inspections are easy and ideal in order to repair unnecessary cuts and penetrations in fabric prior to whole building testing. Syseal fabric is manufactured in large custom pieces individually fabricated to fit large defined building areas. This eliminates the need for installer field seaming and relying upon separate strips of air barriers in the same defined area or hidden within purlin and girt cavities.



Items to Consider

Brace Clips

Utilize clips (3rd party) with self drilling fasteners for rafter and/or column braces in order to preserve the integrity of the air barrier.

Wall Base Channel

Perimeter base channel (3rd party) should be effectively sealed to foundation and provide wall air barrier attachment at floor.

Exterior Wall Panels

Effectively seal exterior wall panels or cladding (3rd party) per instructions to help minimize air infiltration.



Visit thermaldesign.com for Simple Saver® Air-Tight™:
Specifications | Brochure | Instructions | Things To Consider



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