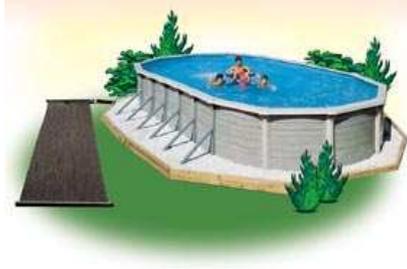




Solar Components Corporation

2012-2013 Energy Saver's Catalog

Welcome to Solar Components. For over 38 years we have offered a diverse range of products which include passive solar heating equipment, greenhouse kits, solar water heaters, solar electric products, insulating quilts and much more. Please feel free to call with any questions and be sure to visit our website which includes current pricing and many additional products not shown in this catalog.



**HELPING YOU BENEFIT FROM ENERGY SAVING PRODUCTS
THAT WILL SAVE YOU MONEY WHILE HELPING THE
ENVIRONMENT**



Solar Components Corporation
121 Valley Street
Manchester, NH 03103
Voice: (603) 668-8186
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www.solar-components.com

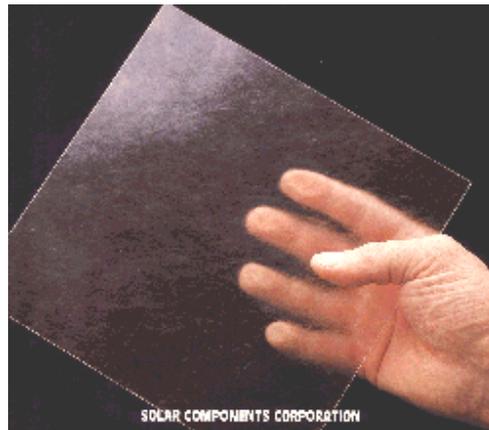
Note: Prices in this catalog are subject to change without notice.

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Fiberglass Solar Glazing

Many of our solar energy products are made from Sun-Lite® HP fiberglass glazing, a one-of-a-kind, high performance solar glazing material. Developed by Kalwall Corporation, Sun-Lite® HP is a lightweight, shatter-resistant low-cost solar glazing material that can be easily handled, cut and installed. Thousands of do-it-yourselfers, builders, solar manufacturers, fish farmers, solar aquatic waste water treatment facilities and others throughout the world are successfully using Sun-Lite® HP in a variety of applications. Sun-Lite® HP is the only non-glass glazing product of its kind engineered to resist the causes of severe molecular deterioration damaging to other plastics commonly used in solar applications.



SUN-LITE® GLAZING MATERIAL

Our product is a high performance solar glazing that is ideal for direct gain applications, water storage walls, solar attics, trombe walls, hydronic collectors, air collectors, batch heaters, greenhouses, cold frames, sunspaces and much more. Our product is lightweight, shatterproof, has a solar transmission of 85-90%, superior impact strength, and is easily cut, handled and installed. Sun-Lite® is the perfect solar glazing material for the do-it-yourself builder. Roll sizes range from 3' - 5' width x 6' - 50' long. Thickness of .040" and .060".

IDEAL FOR GREENHOUSES TOO!

To order call 603-668-8186 Monday through Friday 8:00 am to 5:00pm ET

Or order online at www.solar-components.com

SUN-LITE® GLAZING MATERIAL

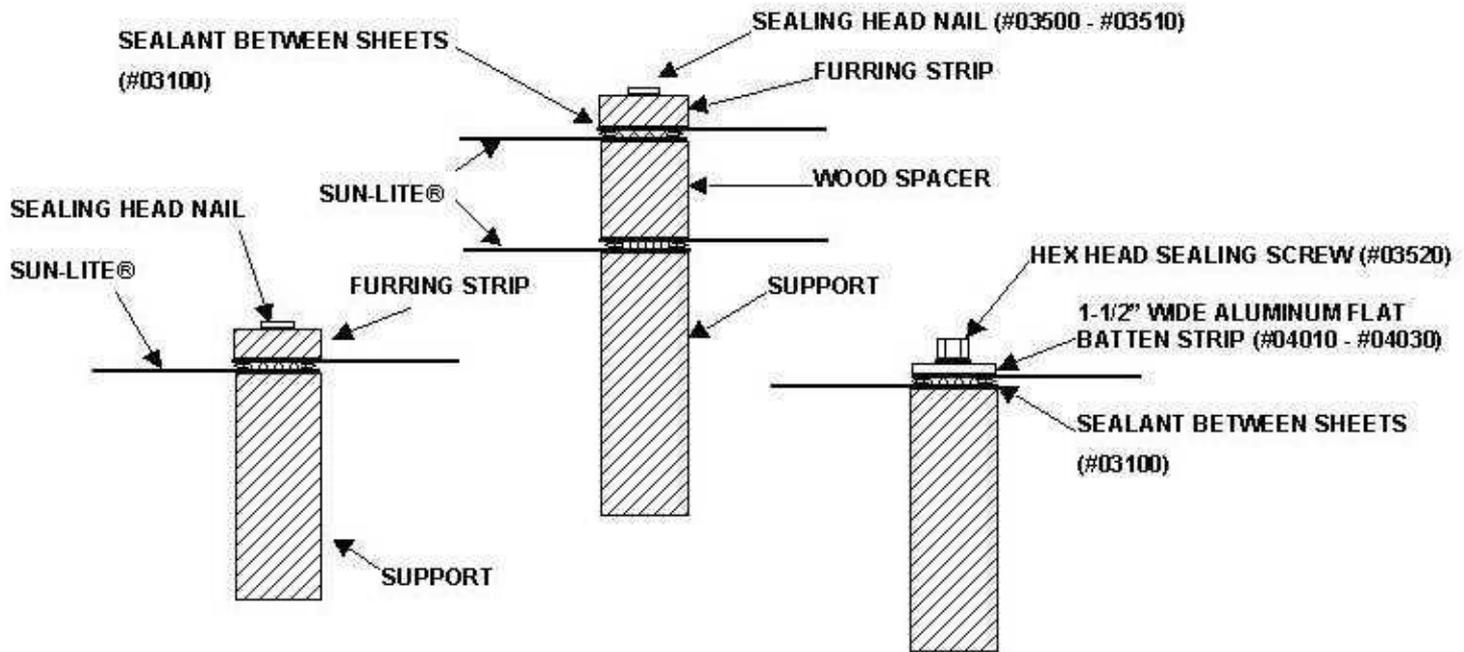
Sun-Lite® HP		
Size	Catalog Number	Price
.040" X 3' X 8'	#01400	\$ 72.00
.040" X 3' X 10'	#01410	\$ 80.00
.040" X 3' X 25'	#01420	\$195.00
.040" X 3' X 50'	#01430	\$380.00
.040" X 4' X 8'	#01500	\$ 89.00
.040" X 4' X 10'	#01510	\$ 100.00
.040" X 4' X 25'	#01520	\$250.00
.040" X 4' X 50'	#01530	\$485.00
.040" X 49 1/2" X 8'	#01600	\$ 92.00
.040" X 49 1/2" X 10'	#01610	\$105.00
.040" X 49 1/2" X 25'	#01620	\$255.00
.040" X 49 1/2" X 50'	#01630	\$495.00
.040" X 5' X 8'	#01720	\$ 95.00
.040" X 5' X 10'	#01730	\$120.00
.040" X 5' X 25'	#01700	\$285.00
.040" X 5' X 50'	#01710	\$595.00
.060" X 4' X 8'	#01800	\$105.00
.060" X 4' X 10'	#01810	\$125.00
.060" X 4' X 25'	#01820	\$265.00
.060" X 4' X 50'	#01830	\$525.00
.060" X 49 1/2" X 8'	#01850	\$110.00
.060" X 49 1/2" X 10'	#01860	\$130.00
.060" X 49 1/2" X 25'	#01870	\$275.00
.060" X 49 1/2" X 50'	#01840	\$545.00

We can custom cut **ONLY** the **LENGTH** of the **SUN-LITE® HP** listed above in 12" increments for a charge of \$2.50 per sq. ft. - .040" and \$2.75 per sq. ft. - .060".

1-1/2" Thick x 4' Wide Angel Hair Insulation__ Light transmitting fiberglass insulation. Great for placing between two layers of Sun-Lite® HP. Still allows enough light through for plant growth but adds added insulation for cold weather growing. Sold by the linear foot.

48" wide Angel Hair Insulation _____ #01211 _____ \$3.20 per lin. ft. (minimum order 8' lin. ft.)

Installation Suggestions



1-1/2" Flat Aluminum Batten Strip

8' Long _____ #04030 _____ \$13.25 each (minimum order 6)

10' Long _____ #04020 _____ \$14.25 each (minimum order 6)

12' Long _____ #04010 _____ \$15.25 each (minimum order 6)

3/4" x 3/4" Aluminum Angle

For use as closure angle on Sun-Lite® Sheeting.

3/4" x 3/4" Angle 10' Long _____ #04650 _____ \$13.50 each (minimum order 6)

Hex Head Sealing Screws

1-3/16" Long Package of 20 _____ #03520 _____ \$ 7.35

2-3/8" Long Package of 20 _____ #03530 _____ \$10.50

Glazing Tape Seals Glazing Panels

Made of tough butyl based elastic compound with a gauze reinforcement to provide excellent dimensional stability. Excellent initial tack with good adhesion to most clean surfaces. Develops a strong bond in service with excellent resistance to water and water vapor. The material remains plastic indefinitely and has a service temperature range of -30 degrees F to 200 degrees F. Jet Black color. Suggested for use on all glazing panel installations.

Glazing Tape 1/8" Thick x 3/8" Wide x 79' Long Roll _____ #03100 _____ \$15.95

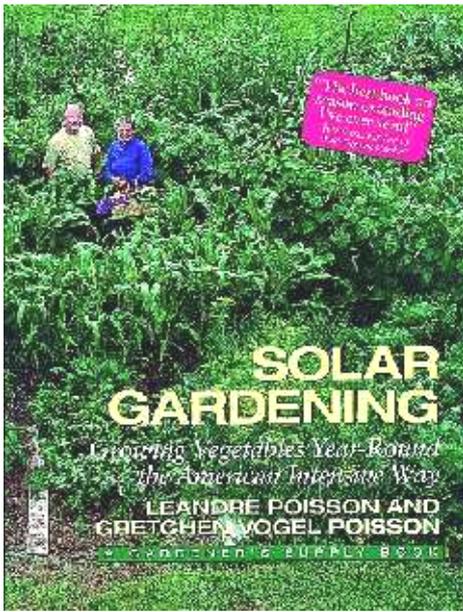
Galvanized "Stormguard" Sealing Head Nails

Used for installing Sun-Lite® fiberglass sheeting. Highly resistant to stains, streaks and rust. Double dipped in zinc with neoprene washers for self sealing. Can also be used to fasten aluminum absorber sheets. Packaged in 5 pound boxes.

1-3/4" Long (approx. 550 nails) _____ #03500 _____ \$24.95

2-1/2" Long (approx. 410 nails) _____ #03510 _____ \$26.50

SOLAR GARDENING



8 1/2 x 11, 288 pages

This book includes many low cost uses for our Sun-Lite® Material. Highly recommended for the cost-conscious solar gardener! The versatility of our Sun-Lite® material allowed us to develop several unique concepts and products for gardening enthusiasts both hobbyists and professionals.

Sun-Lite® Glazing provides highly diffused light completely free of glare and hot spots. This revolutionary benefit yields high quality, well shaped, symmetrical plants which grow faster, with better uniformity and size.

The Poissons, experienced New England gardeners, present their system for continuous food production. Inspired by French intensive gardening techniques that originally utilized bell-shaped glass jars called cloches to protect tender plants and extend the growing season, the Poissons have developed solar gardening "appliances," including the Solar Cone, the Solar Pod, and the Pod Extenders. Use of these mini-greenhouses, combined with other gardening techniques such as intercropping, crop rotation, and careful site and soil preparation, can make it possible to harvest fresh vegetables year-round. Details are given on how to build the solar appliances, followed by information on 90 garden crops grouped by three main categories: heat-loving, cold-hardy, and cold-tolerant vegetables. Although only those with considerable space will be able to implement fully the American Intensive system (a garden area of 40' x 40' is needed for a family of four), the Poissons provide useful gardening tips for all organic gardeners. Highly recommended for all vegetable gardening collections.

Solar Gardening Book #15271 _____ \$39.95

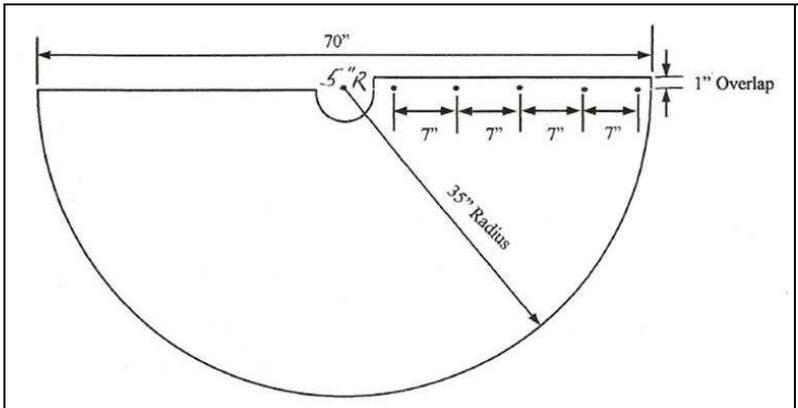


Solar Cones



Solar Pods

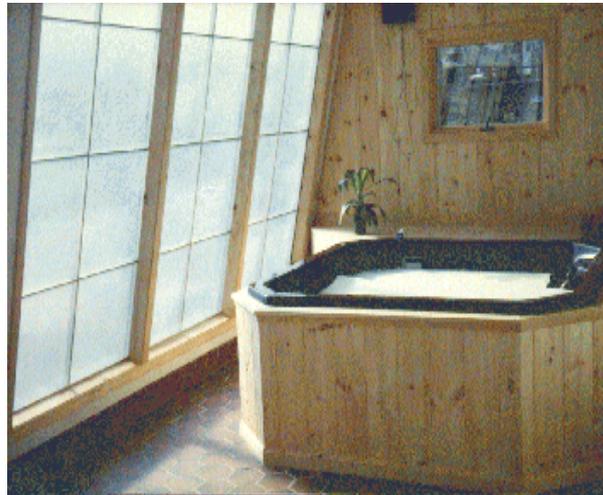
Making A Solar Cone Using Sun-Lite® Glazing



Cut Sun-Lite® HP with tin snips. Mark holes as shown for either pop rivets or plastic bolts and nuts. Form into cone and clamp both ends. Drill through marks with appropriate size drill bit. One 35" diameter cone uses 1 sheet of Sun-Lite® HP .040" thick x 3' x 6'. Download our **Low Cost Gardening, Greenhouse and Solar Projects Booklet** from **www.solar-components.com** for complete instructions.

.040 x 3' x 6' Sunlite HP ___ \$45.00

Sun-Lite® PRE-FAB SOLAR GLAZING PANELS

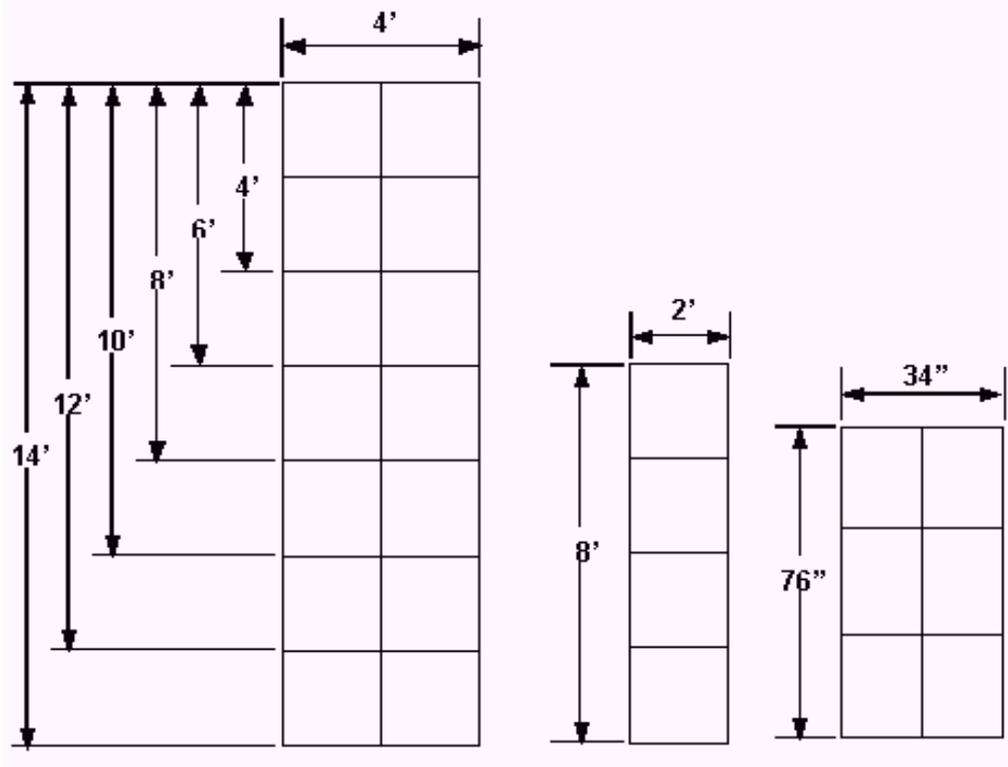


PRE-FAB SOLAR GLAZING PANELS

Sun-Lite insulated panels are factory prefabricated panels designed expressly to transmit maximum solar radiation, yet insulate! They are lightweight, shatterproof, and require minimum maintenance for long term performance. The panels are 1-1/2" thick and are made from our famous Sun-Lite® glass fiber reinforced sheet used in thousands of solar applications worldwide. Engineered to resist the rigors of high sunlight and heat exposure fatal to most glazing materials. Unlike thermoplastic glazing, Sun-lite resists long wave radiation (greenhouse effect.) Sun-Lite® insulated panels in stock sizes. Traditional wood, or our own aluminum Clamp-tite system can be used for rapid insulation.

So if your designing a solar greenhouse, site built collector, or require the most efficient solar window for your passive system, insist on Sun-Lite® insulated glazing panels.

Available in Sun-Lite® Face sheets at 84% Light Transmission
or Translucent White Face Sheets at 20% Light Transmission, (great for interior shoji screens)

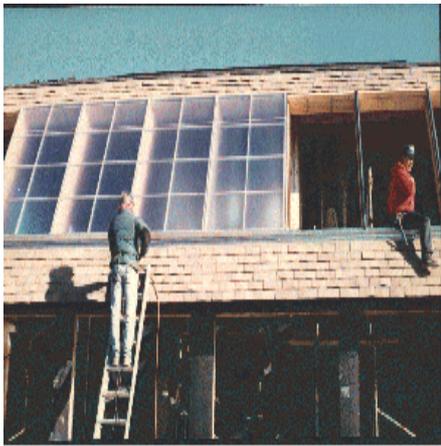


SUN-LITE® GLAZING PANELS

These items must ship by motor freight. Please call (603) 668-8186 for freight quote.

SIZES AND PRICING

1/2" X 2' X 8'	#02010	\$ 182.00 (Call for freight quote)
1/2" X 34" X 76"	#02020	\$ 174.00 (Call for freight quote)
1-1/2" X 2' X 8'	#02150	\$ 192.00 (Call for freight quote)
1-1/2" X 4' X 4'	#02080	\$ 192.00 (Call for freight quote)
1-1/2" X 4' X 6'	#02090	\$ 288.00 (Call for freight quote)
1-1/2" X 4' X 8'	#02100	\$ 384.00 (Call for freight quote)
1-1/2" X 4' X 10'	#02110	\$ 480.00 (Call for freight quote)
1-1/2" X 4' X 12'	#02120	\$ 576.00 (Call for freight quote)
1-1/2" X 4' X 14'	#02130	\$ 672.00 (Call for freight quote)



Installation Aids

These items must ship by motor freight. Please call (603) 668-8186 for freight quote.

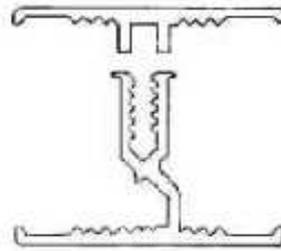
2" Top Batten. Used for clamping and sealing the seam between two 1/2" Sun-Lite® Glazing Panels. Inner edge serrated for holding glazing tape (#03100) in place.



Top Batten

8'	#04100	\$13.65
10'	#04110	\$17.85
12'	#04120	\$20.48
14'	#04130	\$23.65
16'	#04140	\$27.30

2" Double Batten. Used for clamping and sealing the seam between two Sun-Lite® 1-1/2" Glazing Panels. Inner surface is serrated for tight sealant attachment of Glazing Tape (#03100).



Double Batten

8'	#04200	\$38.00
10'	#04210	\$46.00
12'	#04220	\$55.00
14'	#04230	\$63.00
16'	#04240	\$74.00

1" x 3" Aluminum Angle.

Used for securing and covering panels around their perimeter.

1" x 3" Angle

8'	#04300	\$27.00
10'	#04310	\$33.00
12'	#04320	\$39.00
14'	#04330	\$45.00
16'	#04340	\$50.00

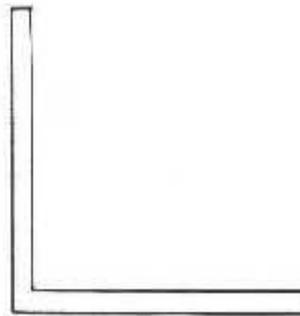


2" x 2" Aluminum Angle.

Multiple uses include outside corners, clip angles perimeter closure, collector racks, etc.

2" x 2" Angle

8'	#04400	\$23.65
10'	#04410	\$29.50



Glazing Tape Seals Glazing Panels

Made of tough butyl based elastic compound with a gauze reinforcement to provide excellent dimensional stability. Excellent initial tack with good adhesion to most clean surfaces. Develops a strong bond in service with excellent resistance to water and water vapor. The materials remain plastic indefinitely and has a service temperature range of -30 degrees F to 200 degrees F. Jet Black color. Suggested for use on all glazing panel installations.

Glazing Tape 1/8" Thick x 3/8" Wide x 79' Long Roll_____#03100_____ \$15.95

Hex Head Sealing Screw

These rugged #14 screws are all cadmium plated with neoprene washers for self sealing and prolonged exterior use. 1-3/16" long used to fasten top section to bottom section of aluminum double batten (#04100-#04140). Also used to fasten aluminum angle (#04300-04340) to curb.

2-3/8" long screws used for fastening 2" top batten (#04100-#04140) directly to support in 1/2" Sun-Lite Glazing Panel installations.

1-3/16" package of 20_____#03520_____ \$ 7.35

2-3/8" package of 20_____#03530_____ \$10.50

Flat Head Screws

Stainless steel with phillips slot in flat head. Good for a variety of installation needs. 2-3/8" size is used for attaching bottom section of the aluminum double batten (#04300-#04340) to wood support.

1" package of 20_____#03550_____ \$ 4.25

1-3/16" package of 20_____#03560_____ \$ 5.25

2-3/8" package of 20_____#03570_____ \$ 6.35

3-1/2" package of 20_____#03580_____ \$10.50

Do-It-Yourself Flashband Waterproofs Difficult Roof Jobs Flashband is a self-adhesive aluminum faced asphalt tape which sticks to almost any surface - wood, shingles asphalt, glass, metal - permanently. An indispensable aid to the roofer because of its versatile sealing and waterproofing properties. Flashband can be used to repair flashings or can be used as flashing on its own.

Will seal and waterproof skylights, window and door frames, air conditioning units, solar collectors, ventilators and chimneys. Its aluminum facing is a decorative feature which makes the finished job very attractive. Molds easily to irregular surfaces. The do-it-yourselfer will find it invaluable around the house. Non toxic, can also be used to graft plants.

2" Wide x 33' roll_____#03590_____ \$15.25

3" Wide x 33' roll_____#03600_____ \$18.75

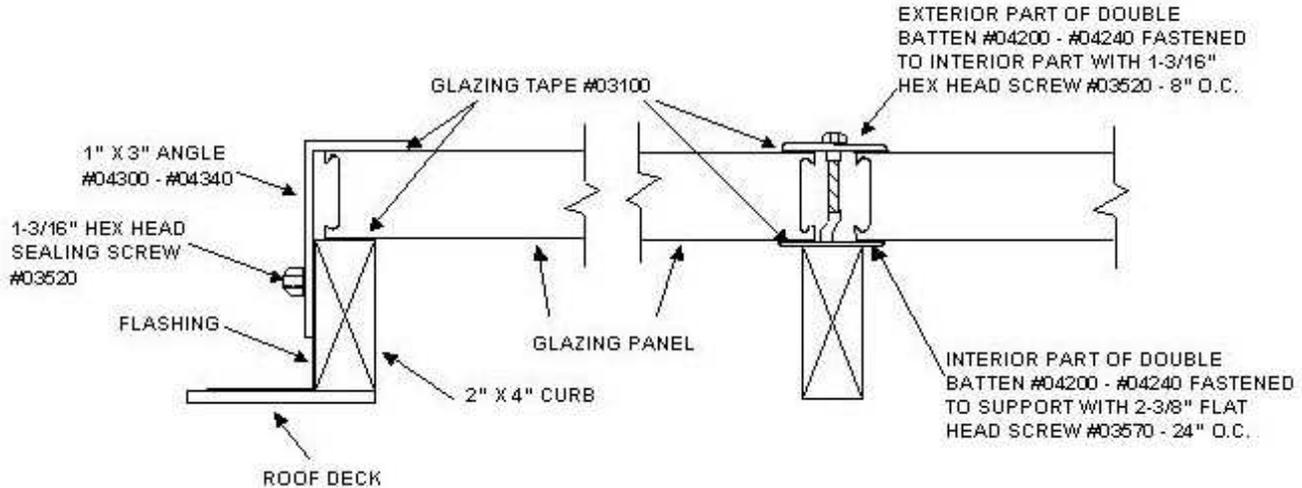
6" Wide x 33' roll_____#03610_____ \$35.75

Kalwall® Weatherable Surface now called Weatherseal 96 LR

Kalwall Weatherable Surface (KWS) is a two part air dried coating material factory applied to the exterior of all Sun-Lite® HP fiberglass reinforced polymer sheeting. It should be reapplied, usually every 10 years after initial installation, to restore the original luster and finish which may have become dulled or roughened due to prolonged exposure to weather, airborne pollutants, or chemicals in the atmosphere. Apply with brush or roller. Coverage 200 square feet per gallon.

1 Gallon Kit_____#03710_____ \$120.00

ROOF DETAIL – BOTTOM VIEW



Build Your Own Greenhouse/Solarium/Sun Room/

We supply construction plans and our efficient Sun-Lite[®] Glazing Panels complete with sealant and mounting hardware. You supply the rest. Typical unit can be built for less than \$3,000.00 (excluding labor).

- 12 foot long x 8' deep 3 panel Sun Room Glazing Package _____ #14010 _____ \$1,475.00
- 16 foot long x 8' deep 4 panel Sun Room Glazing Package _____ #14020 _____ \$1,840.00
- 20 foot long x 8' deep 5 panel Sun Room Glazing Package _____ #14030 _____ \$2,225.00

Packages consist of:

#14010	#14020	#14030	Materials Included
1	1	1	Sun Room Plans
3	4	5	Sun-Lite [®] Glazing Panels 4' x 8' x 1-1/2"
2	3	4	Aluminum Double Battens 2" x 8'
5	6	7	Aluminum Angles 1" x 3" x 8'
2	3	4	79' Long Roll Glazing Tape
2	2	3	pkgs. Hex Head Sealing Screws #14 x 1-3/16"
1	1	1	pkgs. Flat Head Screws #14 x 2-3/8"
1	2	2	pkgs. Flat Head Screws #14 x 1-3/16"
2	2	2	rolls Sun-Lite HP Sheeting .040" x 4' x 8'

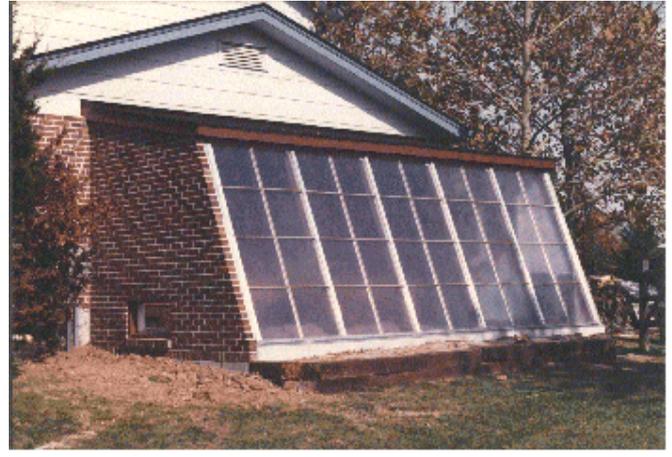
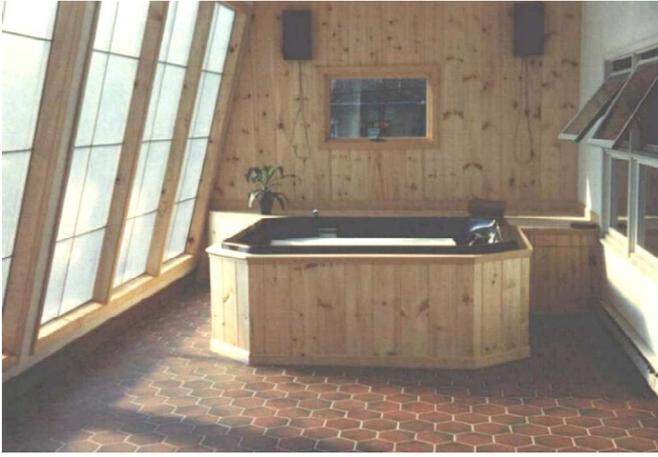
Note: The Sun Room Kit contains only the glazing and glazing installation accessories. Builder/Owner must supply structure and foundation.

Purchase the plans separately before you start building and we will deduct the price of the plans when you order your kit.

Solar Room Plans _____ #15270 _____ \$7.50

Visit our Showroom at 121 Valley Street, Manchester, NH 03103

Phone: (603) 668-8186



Completed Solar Room Kits

Shoji Panels

KALWALL® DAYLIGHTS THIS TURN-OF-THE-CENTURY HOME

That would be the turn-of-the-21st-century home and studio of Tom Wedell and Nancy Skolos in Canton, Massachusetts. This husband-and-wife team of graphic designers love modern design and now, too, the Kalwall translucent panels that shower daylight throughout their nearly 4,000-square-foot home and studio. Artist, interior designer and resident Wedell collaborated with architect Mark Hutker, AIA, and Jon McKee, AIA, of Symmes Maini & McKee, to create a sleek, model home and studio that *Architectural Record* called a “Zen oasis.”



Wedell and Skolos had never heard of Kalwall when they saw it from the interstate driving by the University of Southern Maine in Portland; then and there, they both knew they had to have it. Today, their home and studio space glows with natural daylight, even on the cloudiest days. “Now that we work and live with Kalwall,” says Skolos, “we can’t imagine life without it.”

“The nature of our work is photo/graphic; the challenge was to capture the essence of light in space. Materials were carefully researched and selected to transmit and contain light.”

The Boston Society of Architects (BSA) recognized the Skolos/Wedell residence with a prestigious 2003 Honor Award for Design Excellence.

On an interior wall, Kalwall also serves to screen a library, studio vestibule and one of two dining areas from Wedell and Skolos’ studio space

Kalwall® daylight the open-concept living, dining and kitchen section of the home. The translucent panels, in combination with glass windows, block less desirable outdoor views while focusing attention on carefully composed vistas of the landscaped grounds and the sky above them. According to Tom Wedell, the glare-free, balanced daylight is a joy to live and work in.

“The Kalwall® panels act as a mediator between the ambient and outside light,” explains Skolos. “The resulting glowing panels add another dimension to the architecture – beyond shelter and space to energy and even joy.”

Skolos/Wedell Residence and Studio

Architect: Mark Hutker and Associates Architects with Jon McKee, AIA
Photos courtesy of Skolos/Wedell

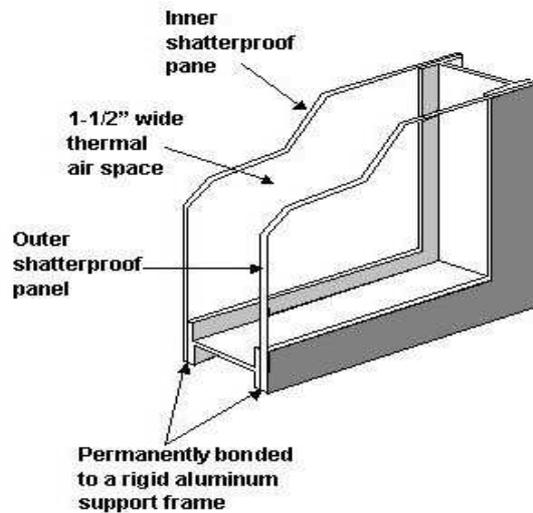
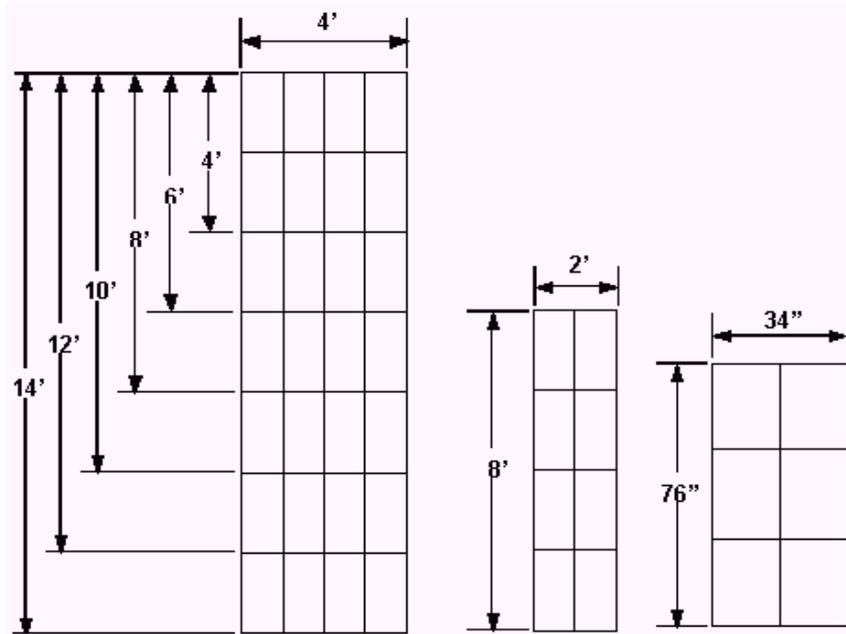


To order call 603-668-8186 Monday through Friday 8:00 am to 5:00pm ET

Or order online at www.solar-components.com

Sun-Lite® SHOJI PANELS

Comes in Translucent White Face Sheets at 20% Light Transmission, (great for interior or exterior use).



SIZES AND PRICING

1/2" X 2' X 8'	#02910	\$ 189.00	(Call for freight quote)
1/2" X 34" X 76"	#02920	\$ 209.00	(Call for freight quote)
1-1/2" X 2' X 8'	#02950	\$ 199.00	(Call for freight quote)
1-1/2" X 4' X 4'	#02980	\$ 199.00	(Call for freight quote)
1-1/2" X 4' X 6'	#02990	\$ 299.00	(Call for freight quote)
1-1/2" X 4' X 8'	#02900	\$ 399.00	(Call for freight quote)
1-1/2" X 4' X 10'	#02940	\$ 499.00	(Call for freight quote)
1-1/2" X 4' X 12'	#02960	\$ 599.00	(Call for freight quote)
1-1/2" X 4' X 14'	#02970	\$ 699.00	(Call for freight quote)

Custom Sizes? Call For Quote.

SUN-LITE® THERMAL STORAGE TUBES



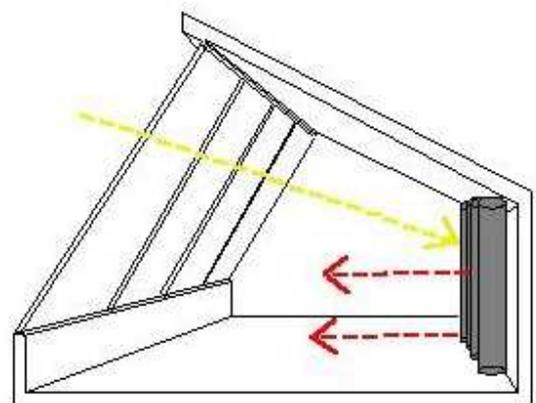
Question: *Is your greenhouse or sunspace too hot during the day and too cold at night?*

Answer: *Add thermal mass with Sun-lite® Thermal Storage Tubes.*

Water contained in low cost, non-pressurized cylinders has proven to be the most practical and effective approach to the capture and storage of thermal energy for space and hot water heating. With over 35,000 units in use worldwide, Sun-Lite® Solar Storage Tubes are the most efficient and cost effective way to store solar thermal energy.

Proven, Low Cost Solution

- Low cost containers designed to be the most economical per gallon of storage;
- Containers transmit natural daylight;
- Wide selection of diameters and heights available to compliment any design;
- Corrosion free fiberglass construction;
- Faster usable B.T.U. gain in 60% less space and 80% less weight than with rock or masonry;
- Self supporting containers require only flat, level floor;
- Easy to install or remove; largest tubes weigh less than 20 lbs. empty!



Direct Gain Clerestory

The Solar Storage Tubes can be used in residential, commercial, industrial, and agricultural applications. Designs based on the following concepts have been proven to provide up to 100% of space heating and hot water needs depending upon climate and site conditions.

Direct Gain Water Wall

Installed adjacent to a solar window, the tubes absorb solar energy, store the energy, and transmit natural daylight. The tubes temper both the heat and light from the sun by removing the wide temperature fluctuations common to other direct gain systems, and by reducing glare from the solar window to workable levels.

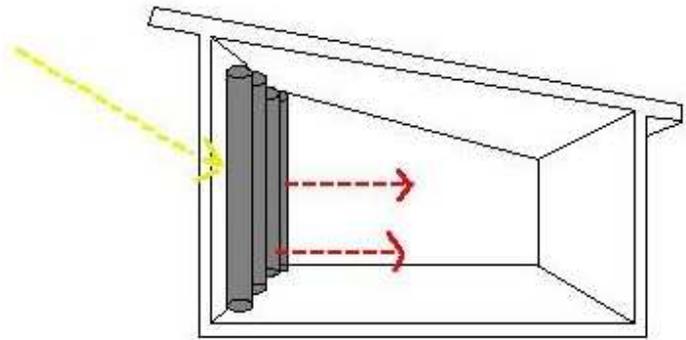
The tubes may be filled with dyed water to increase absorption efficiency and to provide design versatility.

Controllable Passive

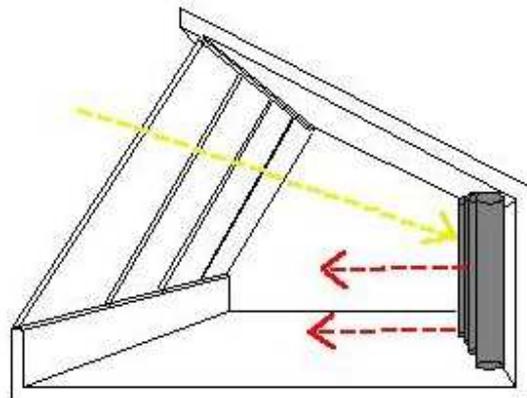
A direct gain design can be modified to separate the Solar Storage Tubes from the adjacent heated space to provide more control over heat gain. movable or fixed, opaque or light transmitting partitions are employed, depending upon design requirements. Heat built up in storage is extracted by natural convection and/or a low power fan

Wall application: Solar Storage Tubes are positioned adjacent to a multi-layered solar window with high solar transmission and good insulation such as our Sun-Lite® Glazing Panels. In very cold climates, movable insulation should be considered, analyzing the trade offs between additional costs and B.T.U.'s saved.

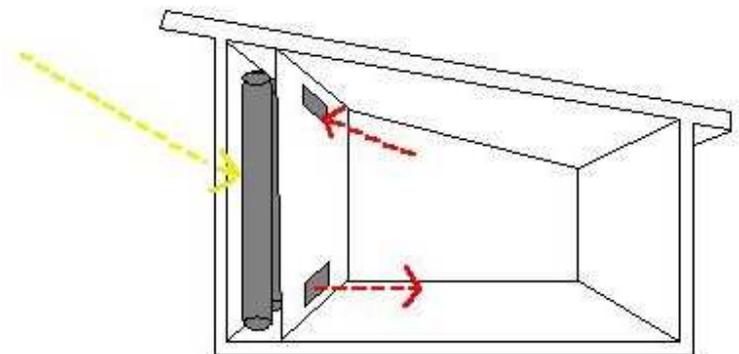
The Solar Storage Tubes are normally filled with black dye in this configuration and placed vertically. Air for heat extraction flows either horizontally or vertically over the tubes. A wall application provides natural shading in the summer to reduce overheating.



Direct Gain Vertical Wall



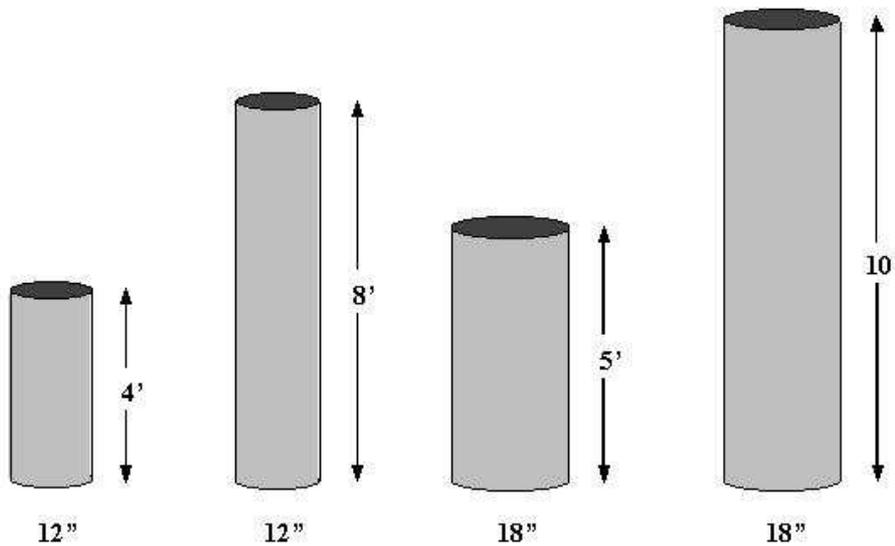
Direct Gain Sloped Wall



Controllable Passive Wall



4 STANDARD SIZES

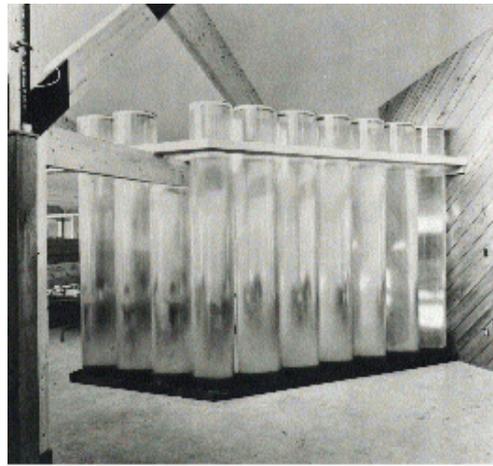


SPECIFICATIONS

Diameter (inches)	Height (feet)	Volume (gallon)	Weight (full)	Heat Capacity (20° Rise (BTU))	Floor Loading Lbs. Per Lin. Ft.	Floor Loading Lbs. Per. Sq. Ft.
12	4	23.5	204	3,900	204	260
12	8	47	404	7,800	404	514
18	5	66	567	11,000	378	321
18	10	132	1122	22,000	748	635

Solar Storage Tubes

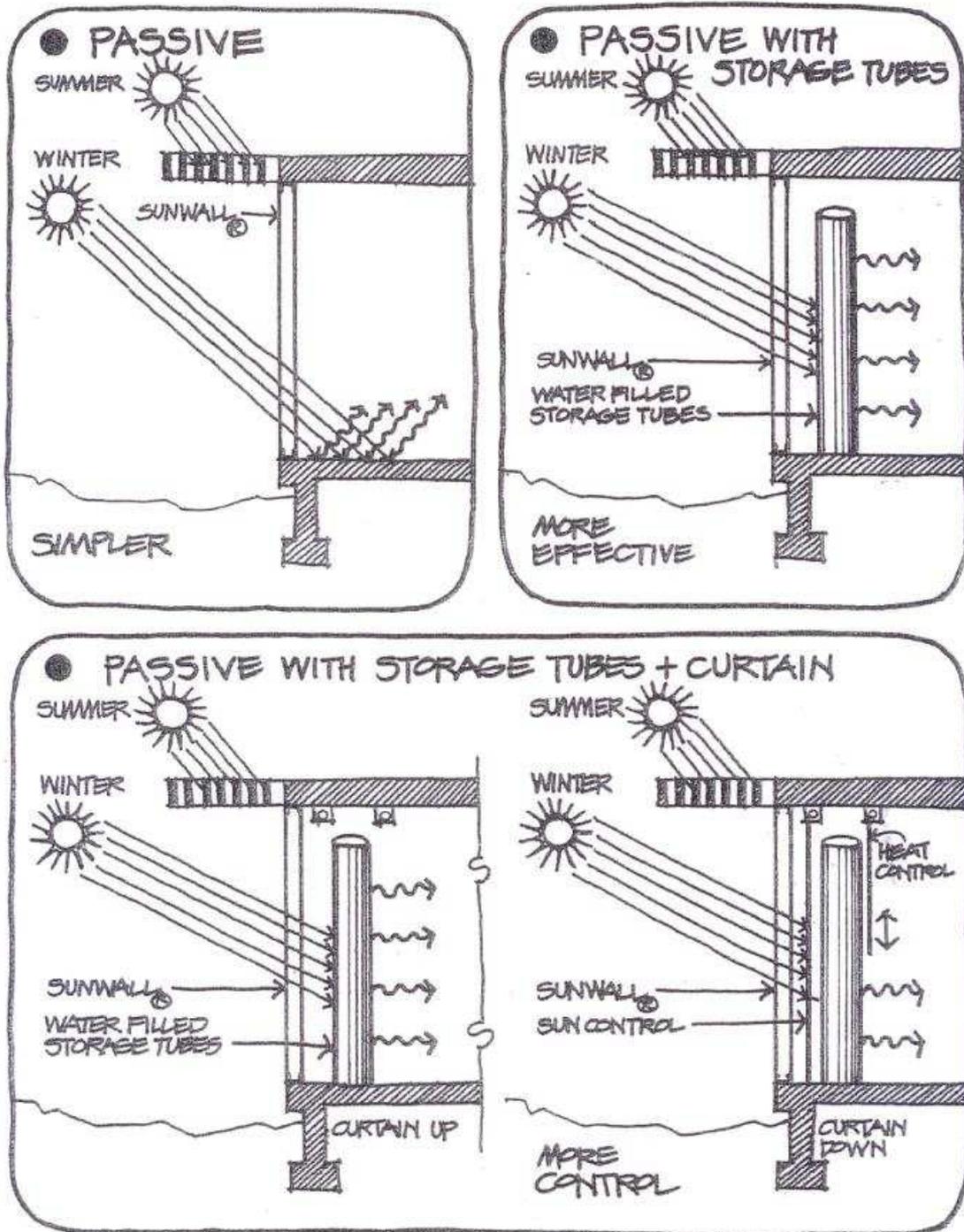
- 12" X 4' _____ #11010 _____ \$114.00
- 12" X 8' _____ #11020 _____ \$175.00
- 18" x 5' _____ #11030 _____ \$193.00
- 18" x 10' _____ #11040 _____ \$255.00
- 12" cover _____ #11100 _____ \$22.00
- 18" cover _____ #11110 _____ \$28.00



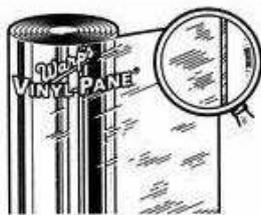
Increase Solar Gain With Our Decorator Dyes

- | | | |
|-----------------------|--------|---------|
| Midnight Black | #11150 | \$ 5.00 |
| Solar Bronze | #11170 | \$ 5.00 |
| Indigo Blue | #11180 | \$ 5.00 |

PASSIVE SOLAR SYSTEMS USING SUN-LITE[®]
GLAZING AND OUR THERMAL STORAGE TUBES...



Vinyl-Pane 8 mil Window Material



Vinyl-Pane® 8 mil thick UV stabilized material provides crystal clear clarity and is rated to -20 degrees F. Heavier weight plastic provides longer service. Available in 75 foot bulk rolls in widths of: 36, 48, 60 and 72 inches.

- **Crystal Clear**
- **Reusable**
- **Saves Heat**
- **Easy To Install**
- **Heavy Duty**
- **UV Stabilized**
-

Vinyl-Pane 8 mil Window Material

36" wide x 75' long roll _____ #01901 _____ \$90.00

48" wide x 75' long roll _____ #01911 _____ \$120.00

60" wide x 75' long roll _____ #01921 _____ \$150.00

72" wide x 75' long roll _____ #01931 _____ \$180.00

To order call 603-668-8186 Monday through Friday 8:00 am to 5:00pm ET

Or order online at www.solar-components.com

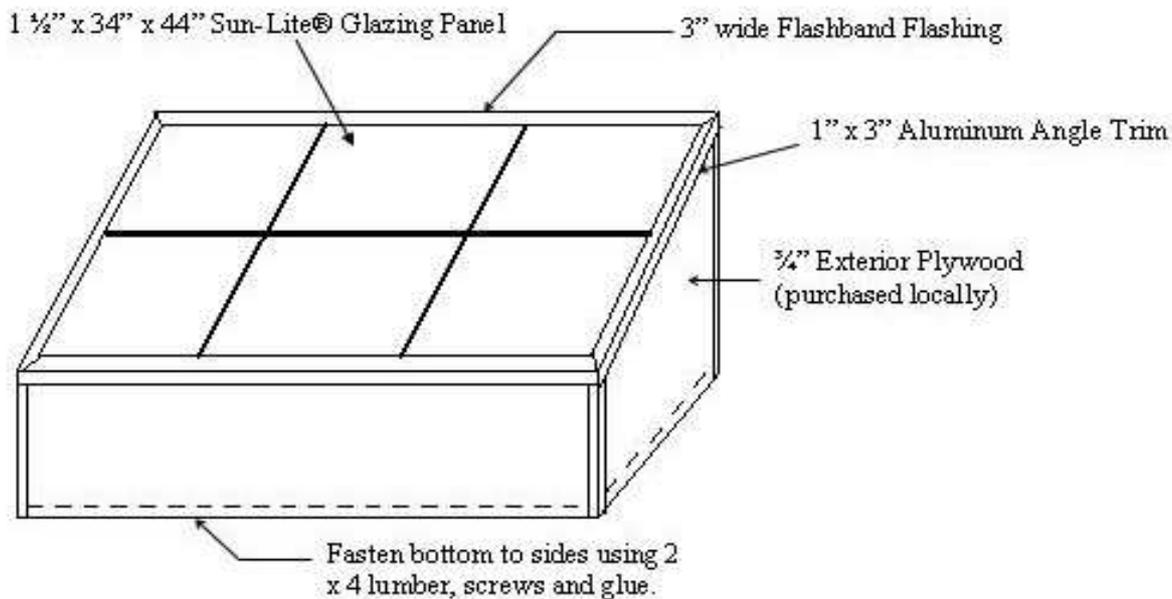
BUILD YOUR OWN SOLAR BATCH WATER HEATER

Kit Price - \$499.00 + \$ 50.00 UPS Shipping (Lower 48 States only)

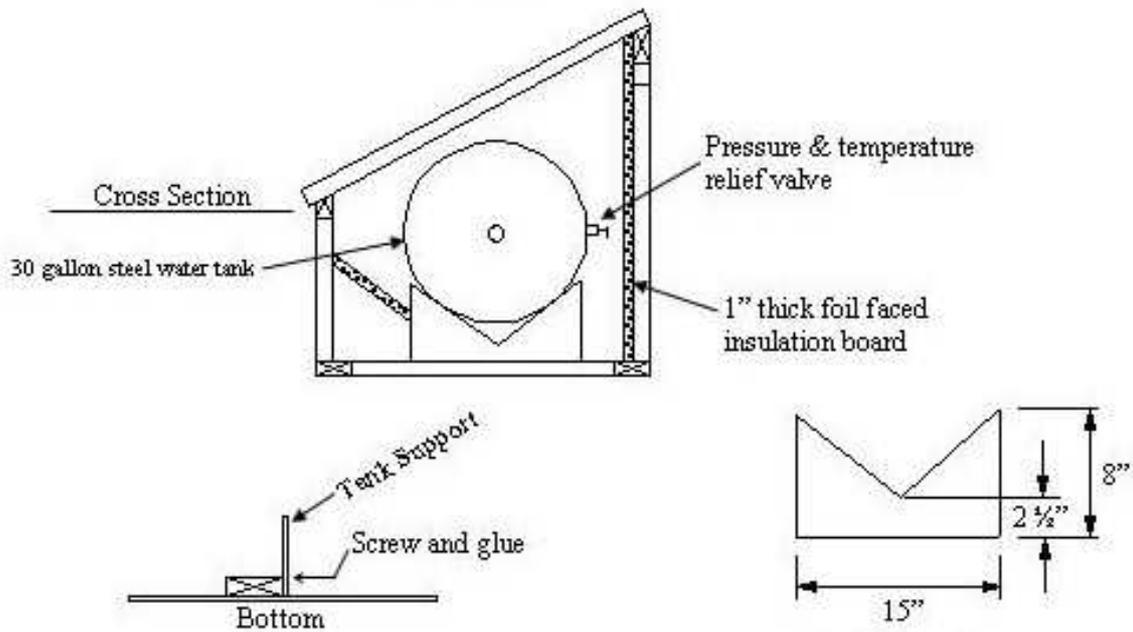
The **Passive Solar Water Heater** is one of the simplest ways to heat hot water. Unlike active solar hot water systems such as closed or drainback systems, a passive system offers the simplicity of no moving parts or electrical connections. The only precaution taken is that in northern climates, the unit should be drained for winter months to prevent freezing damage.

The **Solar Components Batch Water Heater Kit** consists of a 30 gallon glass lined steel tank covered by our 1-1/2" thick Sun-Lite® solar collector cover panel. The kit is designed to pre-heat water going to your conventional water heater or in southern climates could supply all your hot water. This kit provides an excellent dollar per BTU ratio!

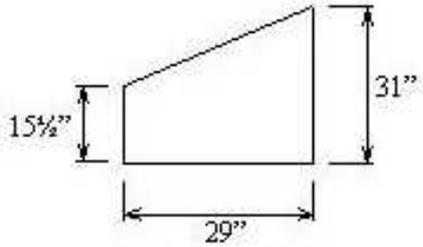
#14350 - Passive Water Heater Kit



Note: Prices in this catalog are subject to change without notice. They were current at the time of this printing 9/27.

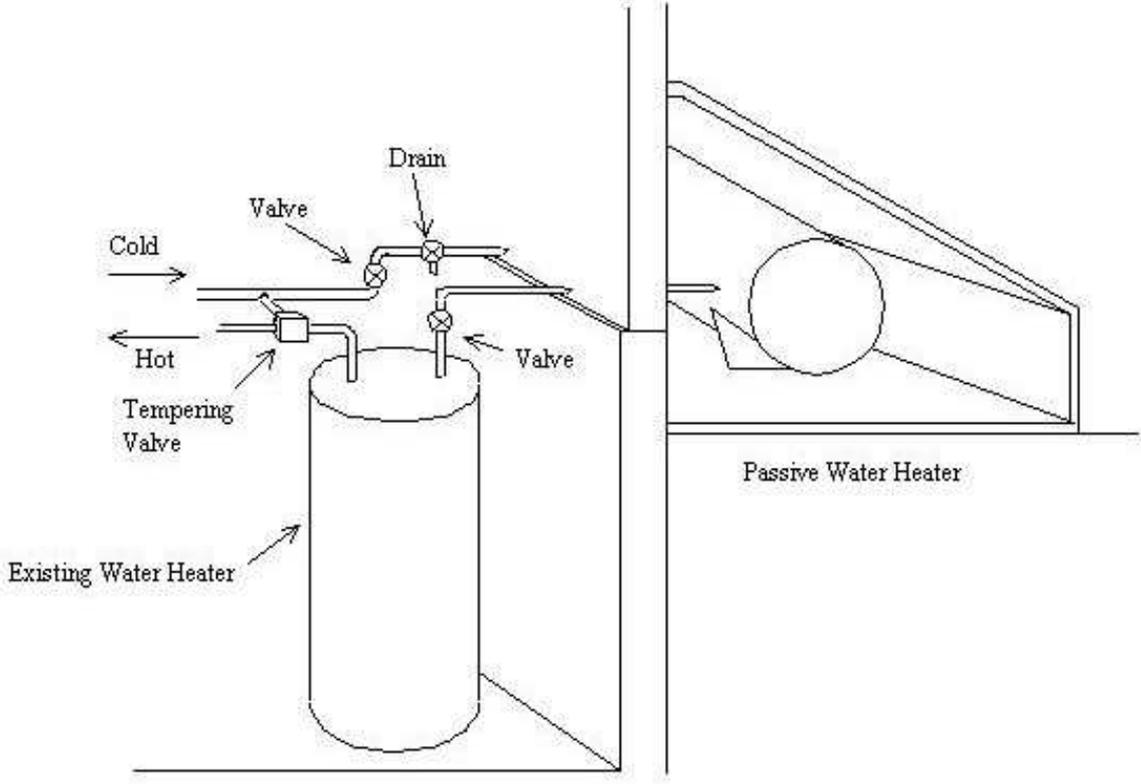


- Cut from 3/4" Plywood
- 1 pc. 15 1/2" x 44" - Front
 - 1 pc. 31" x 44" - Back
 - 1 pc. 29" x 44" - Bottom



Tank Support
3/4" Plywood (3-required)

Sides (2-required)



Typical Installation

Parts Included In Kit

1-1/2" thick x 34" x 44" Sun-lite® Glazing Panel

Solar Components 30 Gallon Steel Tank

1" x 3" Aluminum Angle Trim

6" Wide Aluminum Flashband

1-3/16" Flat Head Screws

1 Can Thermalox Spray, Black Selective Surface

Parts Not Included In Kit

Pressure & Temperature Relief Valve (purchased locally)

3/4" x 4" x 8' Exterior Plywood (purchased locally)

1" Thick x 4' x 8' Foil Faced Insulation Board (purchased locally)

2" x 4" x 8' Lumber (purchased locally)



30 Gallon Passive Water Heater Tank

Passive Water Heater Tank and Anode Rod _____ #11450 _____ \$349.95 free UPS shipping Lower 48 States Only.

Thermalox Spray on Selective Coating 13oz. Aerosol Can _____ #06070 _____ \$18.95

"SKYLINE" SOLAR HOT WATER COLLECTOR



The Beautiful "Skyline"
Solar Water Heaters Have the
Power and Features
You Need and Qualify*
For The
30% Federal Tax Credit!

For the first time in 20 years, millions of Americans have strong motivation and excellent incentives to install solar hot water systems, thus, an exciting era for solar water heating in the US has begun.

The system is centered around a powerful solar collector with a premium black crystal copper absorber. The all aluminum frame is attractive and beautifully designed.

The modular design makes your solar system easily upgradeable. Start with one panel and add more as your family or needs grow.



- **100% Complete Solar Loop, a time saving Value!**
- **The Much Lighter Weight "Skyline" Collector is safer and easier to install.**
- **The 10-01 and collector weighs only 19 pounds and is an easy to carry 20" wide x 72" long.**
- **10 Year Limited Warranty!**
- **High Performance all copper "Black Crystal" absorber.**
- **Unbreakable, Solar Grade Polycarbonate Structural Sheet**
- **Modern Architectural Design Complements Your Home.**
- **Patented "Disappearing Headers" and light weight for lower cost shipping, less damage, easier handling.**

Skyline Solar Hot Water Collector _____ \$349.00 + \$50.00 UPS Shipping.

To order call 603-668-8186 Monday through Friday 8:00 am to 5:00pm ET

Or order online at www.solar-components.com

“Skyline” System 3 for TROPICAL or TEMPERATE CLIMATES

- **HUNDREDS OF HANDY HOMEOWNERS HAVE INSTALLED THESE GREAT SYSTEMS!**
- **NO SOLDERING IS REQUIRED TO INSTALL THE 100% COMPLETE SOLAR LOOP!**
- **CONNECTS TO EXISTING OR ADDED STANDARD ELECTRIC GAS, PROPANE, OR OIL FIRED WATER HEATER**

(SRCC = Solar Rating and Certification Corporation)

These systems are Performance Certified when installed to SRCC OG300 Specifications and tank sizes. When properly installed and maintained, these systems meet the minimum standards established by SRCC. The SRCC certification does not imply endorsement or Warranty of this product by SRCC.

Complete Solar Loop Includes:

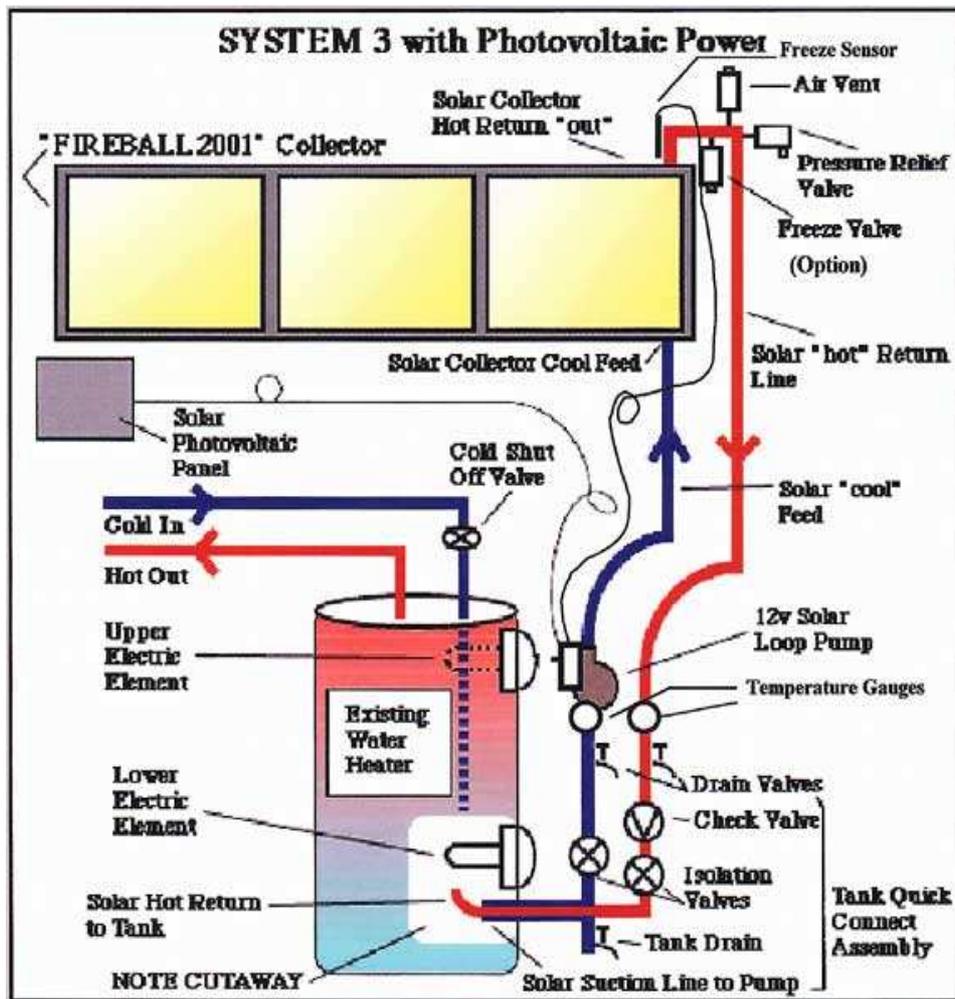
- 1, 2 or 3 - 20-01 Collectors with standard mounting rails or optional end to end center connect 24' Skyline array for 2 collectors only. (10-01 SRCC and FSEC Certifications are applied for) Standard trim color is Musket Brown, free option is medium gray plus 25 optional colors.
- PV Panel and Circulation Pump with mounting hardware and 25' of wire.
- 50' of 1/2" Copper tubing with Brass Compression tube connections and Flashing.
- 11 or 21 Watt PV Panel Including mounting hardware and wire.
- 50' of 1/2" Copper tubing and tube connections.
- Complete collector install kit including mounting rails.
- Mixing Valve to protect from high solar water temperatures.
- Tank "Easy Connect" Kit (to existing or added tank) with shut off, drain valves, and Floating Check Valve.
- (bottom connect is standard, top connect (TC02) is available for \$30.00 extra charge).
- 2 thermometers, pump switch or optional Recirculation switch box with diodes.
- Collector Pressure Relief Valve with splash guard and Air Vent.
- 6' sample section of high temperature outside insulation.
- Install Kit full installation instructions and Owners Manual.
- Optional Freeze Valve.

System 3 For use in completely non freeze areas or SEE LIGHT FREEZE OPTIONS BELOW. Can be used in freeze areas when collector is fully drained before freeze. **Reoriented Tilt systems** require Parallel flow collectors, **(PFL1 or PFR1)** to facilitate drainage at an extra charge of \$40 per collector. Call us for special needs such as tilt kits, colors, long pipe runs and any other questions.

CALL FOR PRICING



“Skyline” System 3 Diagram



“Skyline” System 5 for NORTHERN CLIMATES

- HUNDREDS OF HANDY HOMEOWNERS HAVE INSTALLED THESE GREAT SYSTEMS!
- NO SOLDERING IS REQUIRED TO INSTALL THE 100% COMPLETE SOLAR LOOP!
- CONNECTS TO EXISTING OR ADDED STANDARD ELECTRIC GAS, PROPANE, OR OIL FIRED WATER HEATER
- AN 80 GALLON RHEEM/RUDD HEAT EXCHANGER TANK MODEL NUMBER 81V080HE1 IS REQUIRED FOR THIS SYSTEM.

(SRCC = Solar Rating and Certification Corporation)

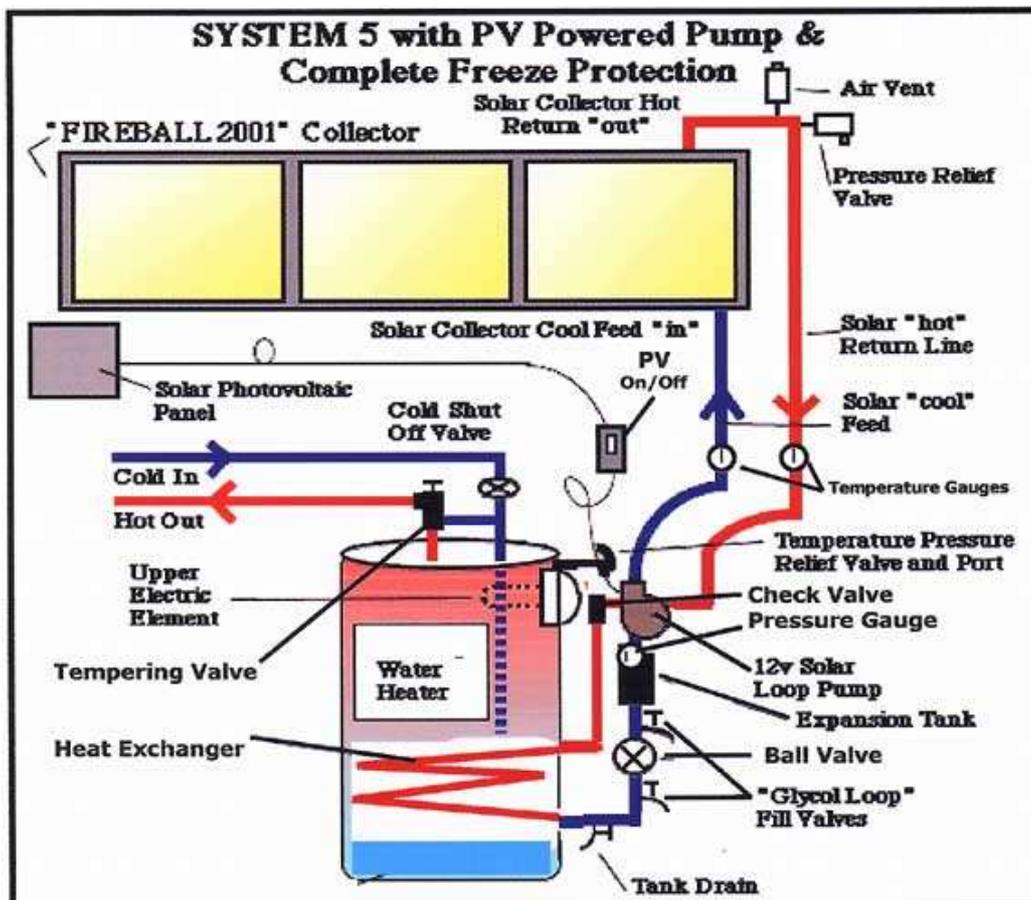
These systems are Performance Certified when installed to SRCC OG300 Specifications and tank sizes. When properly installed and maintained, these systems meet the minimum standards established by SRCC. The SRCC certification does not imply endorsement or Warranty of this product by SRCC.

This system is for total collector freeze protection (to -54F) in hard freeze areas.

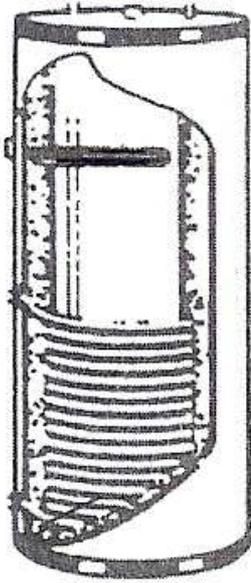
- **Complete Solar Loop Includes:**
- 1, 2 or 3 - 20-01 Collectors with standard mounting rails or optional end to end center connect 24' Skyline array for 2 collectors only. (10-01 SRCC and FSEC Certifications are applied for) Standard trim color is Musket Brown, free option is medium gray plus 25 optional colors.
- PV Panel and Circulation Pump with mounting hardware and 25' of wire.
- 50' of 1/2" Copper tubing with Brass Compression tube connections and Flashing.
- Complete connections for Rheem 80 Gallon Double Wall Heat. Exchanger Tank including two charging valves, floating ball check valve, isolation valve, 2 thermometers, pump switch, expansion tank and all connections.
- Collector Pressure Relief Valve with splash guard and Coin Vent.
- Complete collector install kit including mounting rails.
- Mixing Valve to protect from high solar water temperatures.
- Sample 6' section of high temperature outside insulation.
- full color Installation Instructions and Owners Manual.
- **80 Gallon Rheem/Rudd Heat Exchanger Tank Required.**

- All you need to add is pipe insulation and non-toxic antifreeze available at your local automotive or RV store.
- Call us for special needs such as tilt kits, colors, long pipe runs and any other questions.
- 40 s/f is used most in sunnier areas like California and most all middle and southern colder states.
- 60 s/f is used most in colder areas like New England, Colorado and all northern states.

Systems start at \$1,599.00



“Skyline” System 5 Diagram



The Fantastic Rheem /Rudd Heat Exchange Storage Tank, above showing the Huge Heat Exchanger coil rapping around the inner tank.



Two tank installation for gas, propane, oil or electric.

SOL 27 Flat Plate Solar Collector



**HARVEST
THE
POWER OF THE SUN**
**Over 25 Years of Solar Panel
Experience**

Highly efficient solar collector is suitable for many types of applications.



- Selective absorber coating
- Copper absorber with copper water passages
- Tempered glass with optimal light transmission
- Durable weather resistant aluminum frame
- Low profile 3" thickness
- Can be mounted with either vertical or horizontal orientation
- Full compliments of custom mounting hardware is available

Connections: 3/4"

Frame: Anodized aluminum

Absorber: Copper, titanium-nitrite-oxide coating

Thermal Insulation: Rockwool

Light Transmission: 92%

Heat Transfer Fluid: Non-toxic polypropylene glycol solution

Dimensions: 87-15/16" x 48-1/8" x 3-1/16"



QUALIFIES FOR 30% FEDERAL TAX CREDIT

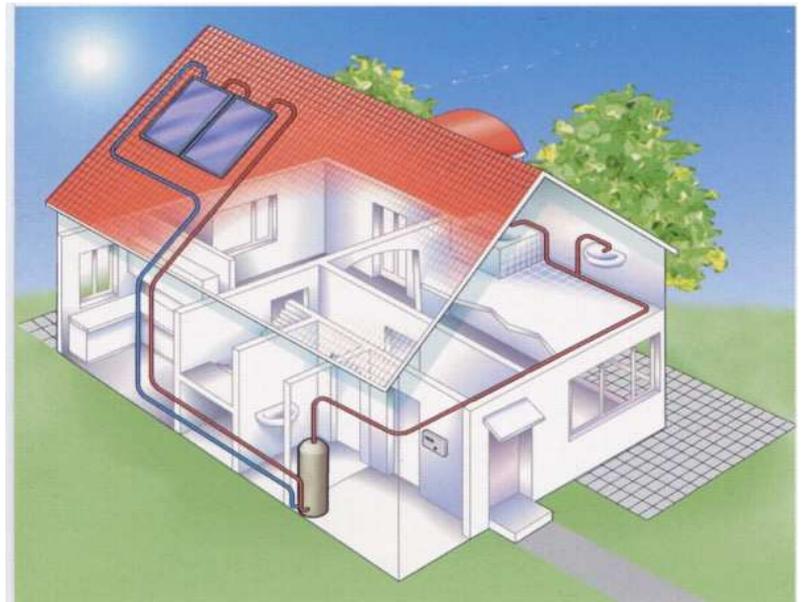
www.solar-components.com

The SOL 27 is ideal for Many Applications:

- Residential or Commercial Water Heating
- Space Heating
- Swimming Pools

Advantages Include:

- **Appealing Design.**
The SOL 27 has less depth than other panels, making it visually less obtrusive and compatible with existing architectural designs.



- **Maximum Efficiencies.**
The SOL 27 is a real workhorse. The net absorber surface of almost 27 sq feet results in a

maximum output of 6826 Btu per panel. The SOL 27 also offers features such as a selective absorber coating, glass with the highest possible light transfer coefficient, and a very effective insulation around the absorber. The internal water passages are copper.

- **Installation Time is Minimized.**

The large panel size and the availability of a full complement of custom designed installation accessories minimize the installation costs.

Lasting and Reliable Energy Saving Investments.

The SOL 27 is the culmination of 25 years of experience in the solar business.

SOL 27 Flat Plate Solar Collector _____ \$829.00 call for freight quote. (603) 668-8186



**Solar Components Corporation
121 Valley Street,
Manchester, NH 03103
Ph: (603) 668-8186 Fax: (603) 668-1783**

www.solar-components.com

SBB...Plus Solar Hot Water Storage Tank

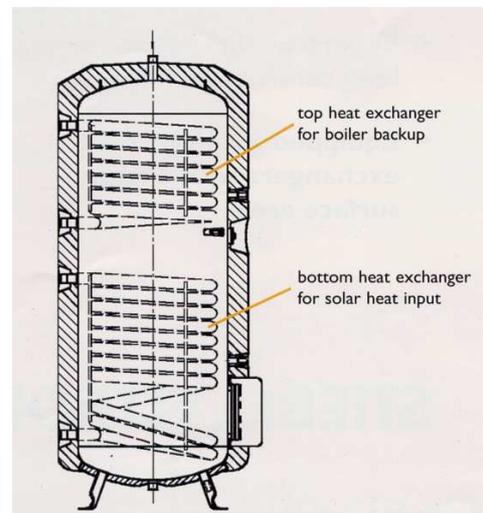
Harvest The Power Of The Sun



- Low standby loss due to 3" foam insulation
- Heavy steel with double glass line coating
- Replaceable sacrificial anode rod
- Superb quality results in long service
- Equipped with two heat exchangers with a large surface area
- Well for sensor used in conjunction with solar differential controller

Shown is our solar water heater made of heavy gauge steel. It incorporates an upper and a lower glass lined coil type heat exchanger, also made of steel. The tank has a well for a temperature sensing probe.

The upper heat exchanger coil is designed to be linked to a hydronic boiler. The lower coil is to be connected to the solar panels.



Specifications	SBB 300 Plus	SBB 400 Plus
Storage Capacity	80.6 gallons	108.6 gallons
Volume of top heat exchanger	1.9 gallons	2.2 gallons
Volume of bottom heat exchanger	2.7 gallons	2.9 gallons
Working pressure	145 PSI	145 PSI
Tested to pressure	217 PSI	217 PSI
Max. pressure of boiler loop	150 PSI	150 PSI
Max. temperature solar loop	203°F	203°F
Max. temperature boiler loop	203°F	203°F
Surface area top heat exchanger	1705 sq. inch	2015 sq. inch
Surface area bottom heat exchanger	2325 sq. inch	2635 sq. inch

Tank weight empty	339 lbs.	412 lbs.
Tank weight Full	1,051 lbs	1,362 lbs
Standby losses in 24 hours	1.9 Kwh	2.2 Kwh
Height w/ insulation	66.1 inches	72.7 inches
Width w/ insulation	27.55 inches	29.52 inches

Cold / hot water connections - 1" copper pipe with adapters. Adapters provided with unit.

SBB 300 Solar Hot Water Storage Tank_____ \$1,785.00 call for freight quote. (603) 668-8186

SBB 400 Solar Hot Water Storage Tank_____ \$1,890.00 call for freight quote. (603) 668-8186

SOL 27 Solar Hot Water System Packages

SOL KIT 1:

Collector: 1 - SOL 27s Collector

Tank: 1 - SB 200 - 50 Gallon Solar Storage Tank

1 - Stiebel Eltron Pump/Control Station Price: \$2,875.00 - call for freight quote

SOL KIT 2:

Collectors: 2 - SOL 27 Collectors

Tank: 1 - SBB 300 - 80 Gallon Solar Storage Tank

1 - Stiebel Eltron Pump/Control Station Price: \$4,459.00 - call for freight quote

SOL KIT 3

Collectors: 3 - SOL 27 Collectors

Tank: 1 - SBB 400 - 108 Gallon Solar Storage Tank

1 - Stiebel Eltron Pump/Control Station Price: \$5,390.00 - call for freight quote



SUN-LITE® SOLAR AIRHEATER KIT



Kit Includes:

- 2' x 5' x 4" deep .060" mill finish aluminum collector box
- 2' x 5' .019" black flat aluminum absorber plate
- 2' x 5' x .060" Sun-Lite® HP collector glazing
- 1 roll of pressure sensitive glazing tape

You assemble the components and cut either circular or rectangular duct holes. Airheater can be used in passive thermosyphon mode or you can circulate the air with a small fan and thermostat. The sides and back of the collector box should be insulated and can be finished to match your house. Use your imagination!

Sun-Lite® Solar Airheater Kit_____ \$369.00 + \$45.00 UPS shipping.

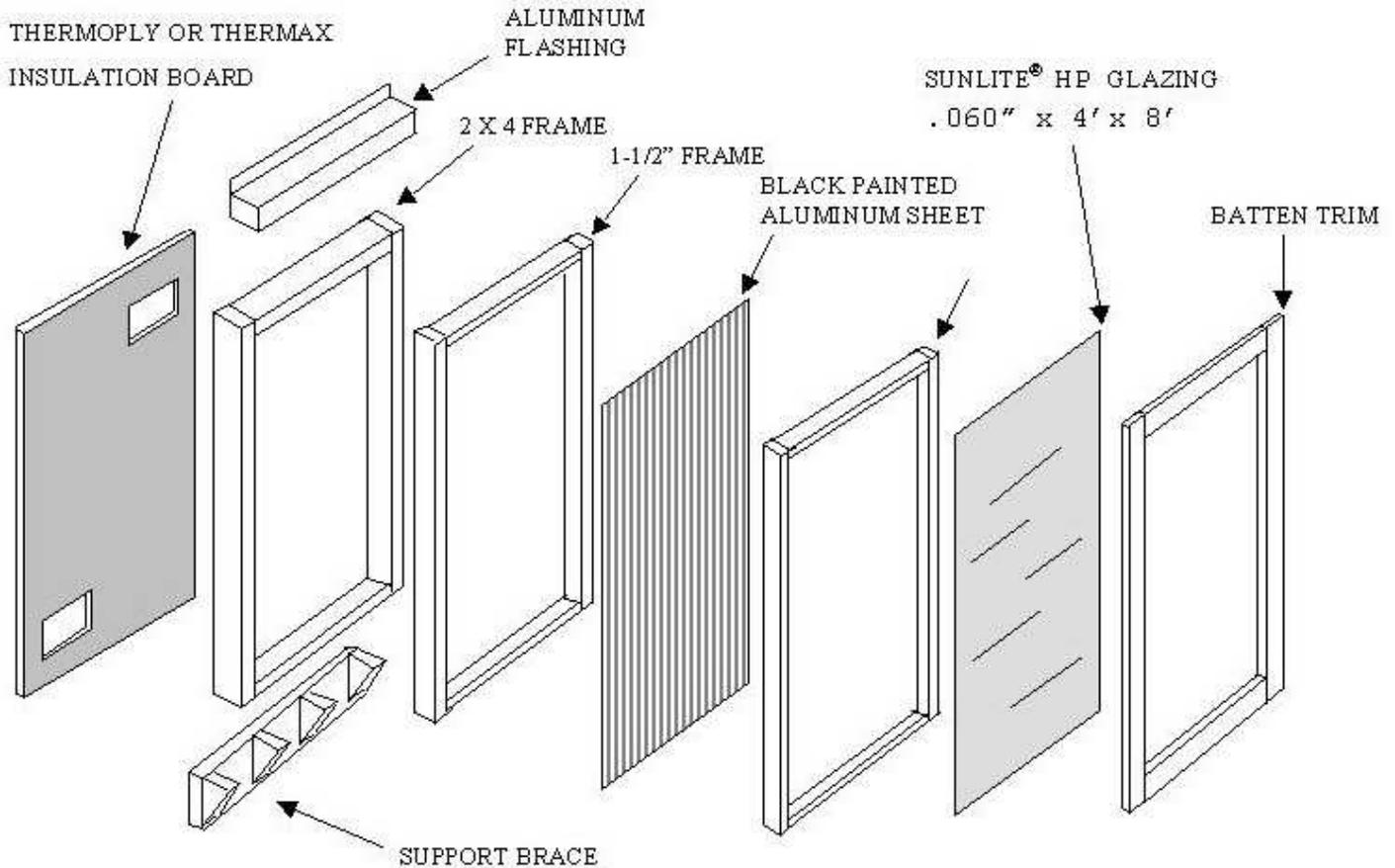
Factory Assembled Airheater_____ \$429.00 + \$45.00 UPS shipping

Call for complete assembly instructions or visit our website at www.solar-components.com

ONE AIRHEATER CAN HEAT AN AVERAGE SIZE ROOM ON A SUNNY DAY

Build Your Own Solar Airheater

Build your own Solar Airheater using our SunLite® HP Solar Glazing and readily available materials and save money on your heating costs. A typical 4' x 8' collector can provide 25 to 50% of the energy needed to heat a 400 to 800 square foot space depending on climate and building construction.



AIRHEATER COMPONENTS



Airheater Fan and Cord Set #09411

This Axial fan is great for solar airheaters. 124 CFM, Voltage 115 AC, 60/50 Hz, Single Phase, Amps 0.25, Watts 21, Fan RPM 2750, 47 dBA, Height 4 11/16 In, Width 4 11/16 In, Depth 1 1/2 In, Mounting Holes O. C. 4 1/8 In, Vertical or Horizontal Mounting Position.

\$59.95



Airheater Thermostat #13310

Enclosed high quality thermostat has liberal contacts and push on terminal clips. Holes provided for mounting screws. Factory set for 110° F on, 90° off. Rated 5 amps at 115V.

\$16.95



Duct Damper Prevents Back Drafts #09440

Backdraft Damper, In-line Type, Fits Duct Dia. 6 In, Galvanized Steel, Includes Spring Loaded Lightweight Aluminum Damper Blade

\$48.95



7" Diameter Air Heater Collar #09430

Galvanized Steel Snap-Lock Duct Fitting 7" Diameter Self-Sealing Collar. Attach to back of airheater to penetrate wall or roof.

\$14.95



Thermalox Selective Surface Spray #06070

Thermalox Solar Collector Coating is a Silicone based heat-resistant selective paint designed for use on metal surfaces of solar collector panels - will withstand up to 1000° F. Thermalox will function with maximum efficiency (absorptivity .96, emissivity .52) when applied 0.5 mils thick. Coverage 25 sq. ft. the coating resists out-gassing (a major cause of internal fogging of collector covers) up to 400° F. Made with heat stable pigments, the coating will withstand repeated thermal cyclings and temperatures as high as 1000° F. Thermalox is unaffected by humidity, and will not peel or discolor. 13 oz. aerosol can. primer not necessary for copper or aluminum.

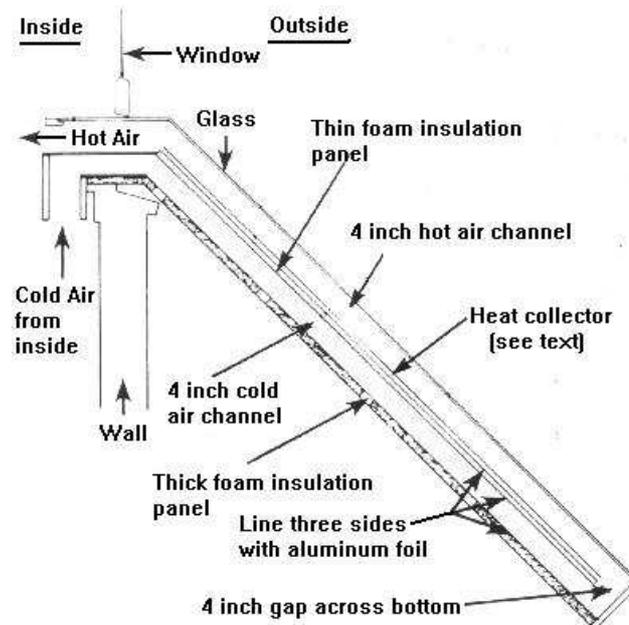
\$18.95

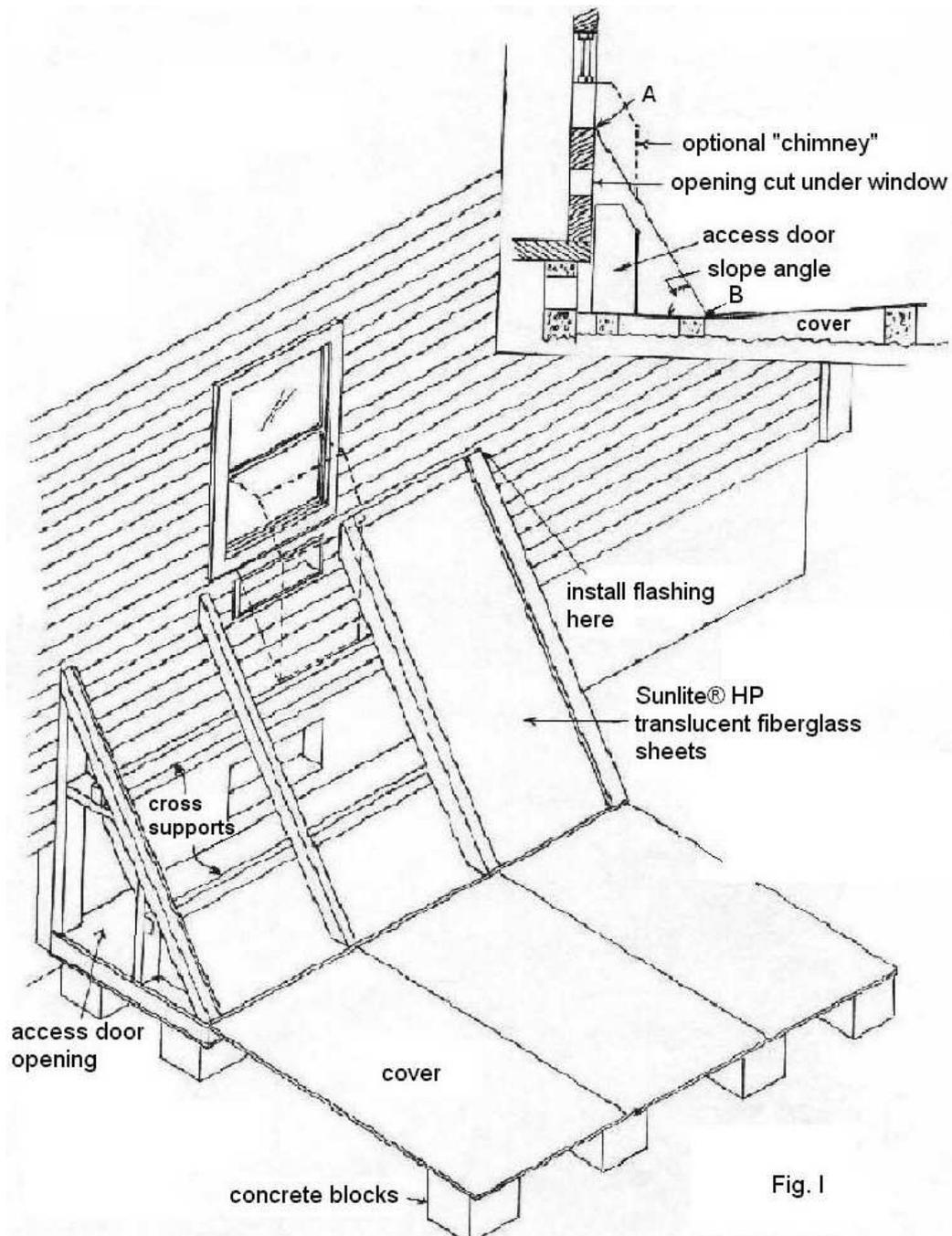


Coil Stock Absorber #05070

.019" thick aluminum absorber sheet. Great for do-it-yourself solar hot air collectors. 24" wide and sold by the linear foot. Black one side, white on the other side. Minimum order 8 linear feet.

\$3.50 per lin ft.





To order call 603-668-8186 Monday through Friday 8:00 am to 5:00pm ET

Or order online at www.solar-components.com

Air Breeze Wind Turbines

Southwest Windpower Air Breeze



The all-new Air Breeze is quieter and more efficient. It is engineered to deliver more energy at lower wind speeds and intended for use in a variety of battery charging applications, including remote homes, sailboats, telecommunication towers, monitoring stations and areas of the developing world.

Microprocessor-based smart internal regulator with peak power tracking. 3-year warranty.

Features include:

<ul style="list-style-type: none"> Durable Composite Blades Delivers 33 kWh/mo @ 12 mph avg. wind speed Maximum wind speed is 110 mph 	<ul style="list-style-type: none"> Aircraft quality aluminum alloy castings Brushless Neodymium alternator Minimal maintenance with 2 moving parts
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Air Breeze Turbines	Voltage	Rotor Diameter	Startup Wind Speed	Rated Power @ 28 mph	Weight (lbs)	Price (US)
1-ARBL-10-12 Air Breeze Land Wind Generator w/built-in regulator	12V	46"	6 mph	200 W	18	\$699.00
1-ARBL-10-24 Air Breeze Land Wind Generator w/built-in regulator	24V	46"	6 mph	200 W	13	\$699.00
1-ARBM-10-12 Air Breeze Marine Wind Generator w/built-in regulator	12V	46"	6 mph	400 W	13	\$979.00
1-ARBM-10-24 Air Breeze Marine Wind Generator w/built-in regulator,	24V	46"	6 mph	400 W	13	\$979.00
1-ARXL-10-12 Air X Land Wind Generator w/built-in regulator	12, 24 or 48V	46"	6 mph	400 W	13	\$699.00
1-ARXL-10-24 Air X Land Wind Generator w/built-in regulator	12, 24 or 48V	46"	6 mph	400 W	13	\$699.00

To order call 603-668-8186 Monday through Friday 8:00 am to 5:00pm ET

Or order online at www.solar-components.com



Skystream 3.7



Skystream Wireless Display

Southwest Windpower

Skystream 3.7™

Skystream 3.7, developed by Southwest Windpower in collaboration with the U.S. Department of Energy's National Renewable Energy Laboratory, is the newest generation in residential wind technology. Skystream 3.7 has a 1.9 kW rating and is the first fully integrated small wind generator specifically designed for the grid-connected market. Skystream 3.7 is designed for homeowners looking to reduce or eliminate their monthly electric bills.

Skystream 3.7 is a down-wind (wind hits the blades on the downwind side of the tower) direct drive (gearless or no transmission) permanent magnet wind generator.

Skystream 3.7 uses an innovative 12-foot diameter rotor and produces approximately 400 kWh per month in a 12 mph average wind. Requires 8 mph for start up, 110 mph maximum.

Skystream is available on towers ranging from 33 feet to 70 feet. Its fully-integrated universal inverter delivers power compatible with any utility grid from 120 – 240 Vac. Skystream carries a 5-year warranty. Grid-connected systems can incorporate "battery charging controller kit" for battery back up.

Site Criteria

- At least 10 mph average wind speed (best results at 12 mph or more)*
- Your property is at least .5 acre and has unobstructed views
- The local zoning allows a structure that is at least 42' tall
- Your local utility has an existing interconnection agreement for homeowners (Your Skystream dealer can help determine this)

* Visit www.skystreamenergy.com for wind maps for your area, or consult your local Skystream dealer.

Part #	Model	Item	Volts AC Output	Rated Power Continuous (watts)	Peak Power Maximum (watts)	Shipping Weight
SKYSTREAM Wind Turbines - On Grid (Battery Charge Controller Optional)						
455048	1-SSL-10-240	Skystream 3.7, 240V / 60 Hz Land	240	1900	2600	193
455051	1-SSM-10-240	Skystream 3.7, 240V / 60 Hz Marine	240	1900	2600	193
455052	1-SSL-10-208	Skystream 3.7, 208V / 60 Hz Land	208	1900	2600	193
455053	1-SSM-10-208	Skystream 3.7, 208V / 60 Hz Marine	208	1900	2600	193
SKYSTREAM Wind Turbines - Off Grid (requires Battery Charge Controller)						
455010	1-SSL-10-120	Skystream 3.7, 120V / 60 Hz, 1P Land	120	1900	2600	193
455013	1-SSM-10-120	Skystream 3.7, 120V / 60 Hz, 1P Marine	120	1900	2600	193

Part #	Model	Description	Shipping Weight
SKYSTREAM Tower Kits (can also use Whisper 32, 40 & 70ft. Guyed Tower kits); price includes shipping			
455ACC011	3-CMBP-3043	Monopole Tower 33' - 6"	500
455ACC023	3-CMBP-3206	Monopole Tower 45'	932
455ACC027	3-CMBP-3207	Monopole Tower 60'	1500
Tower Kit Accessories			
455ACC013	3-CMBP-3048-02	Foundation Bolt Kit 32" for monopole tower mat found	20
455ACC012	3-CMBP-3048-01	Foundation Bolt Kit 42", for monopole tower pier found	28
455ACC014	2-TWS-101	Gin Pole Kit with pole, shackels and wres	120
455ACC015	2-SSOT-100	Hinge Plate Kit with hardware	41
455ACC016	2-TWS-100	Tower Adaptor Kit (5") aluminum casting with hardware	11
SKYSTREAM Communications			
455ACC017	2-SSUP-100-02	Wireless Remote Display Kit 916 Mz w/antenna + AC adaptor	5
455ACC018	2-SSUP-101	Skystream Communications Utilities Kit w/USB converter + CD	1
455015	1-CRBC-10	Battery Charging Controller Kit	5
455ACC021	2-SSUP-102-02	Wireless Remote Display Kit Battery Sensor	5

Southwest Windpower Skystream 3.7 _____ Prices Start at _____ \$9,400.00

Fans and Blowers

Small Volume Blower____#09100____\$ 139.00



A reliable shaded-pole centrifugal blower offering maximum efficiency, yet quite air delivery for use on solar collector modules or small permanent installations (30-100 square feet) . Provides 265 CFM in free air, down to 135 CFM at 1/2" static pressure. Mounting flange measures 5" high x 5-1/2" wide. 1/20 HP motor with start-up amperage of 2.8.

Medium Volume Blower____#09110____\$ 249.00



This blower is driven by a dependable, heavy duty Dayton 1/10 HP shaded-pole motor, designed to operate with a minimum of noise. It provides 525 CFM in free air down to 387 CFM at 1/2" static pressure. May be used on 100-300 square foot collector systems. Start-up amps 6.5.

Medium Large Volume Blower____#09120____\$ 329.00



This blower is driven by a dependable, heavy duty, shaded-pole motor designed to operate with a minimum of noise. Wheel is heavy-duty, balanced and direct driven. Provides 980 CFM in free air, down to 730 CFM at 1/2" static pressure. Can be used on collector systems measuring 300-500 square feet. 1/5 HP motor with start-up amperage of 9.8. Use mounting support (#09130) for easy installation.

Mounting Bracket____#09130____\$ 21.00



Can be used with blower #09120 listed above. Facilitates base-mounting blower from bottom, upward, and overshot discharge. Sturdy steel, gray finish. 12-3/4" long.



Shutter Mounted Exhaust Fans For Greenhouse Ventilation

Easy to install, complete, efficient exhaust fan units. Guarded fan is mounted on automatic shutter. Quickly installed as a unit in wall opening 1" larger than diameter of fan blade. Fan-motor is mounted on heavy-duty wire guard and attached to automatic shutter, 115v, pre-lubricated motor.

Stock Number	Price USD	Blade Dia.	CFM Air Delivery	Motor HP	Full Load Amps	Square Opening Required
09180	\$ 186.00	7"	135	1/30	1.0	8-1/2"
09181	\$ 220.00	10"	520	1/30	1.0	10-1/2"
09182	\$ 239.00	12"	650	1/30	1.0	13"
09183	\$ 329.00	16"	870	1/20	1.9	17"
09184	\$ 426.00	18"	1625	1/15	2.8	19"



Return Vents

Install on opposite end of greenhouse to supply return air for above exhaust fans. Can be used with shutter motor listed below.

Frame Opening Required	Stock Number	Price USD
11" x 11"	09170	\$ 49.00
13" x 13"	09171	\$ 56.00
17" x 17"	09172	\$ 70.00
19" x 19"	09173	\$ 76.00

Shutter Motor For Positive Damper Control

Designed for use with the shutters listed above. When properly wired unit automatically opens and closes when fan or blower is activated. Shutter motor is equipped with single phase motor, motor plate, linkage, and mounting hardware.



Shutter Motor _____ #09160 _____ \$ 139.00



Line Voltage Wall Thermostat____ #13320____\$ 42.00

An Attractive interior thermostat which can operate in either heating or air conditioning mode. Good for use in greenhouse to blow heated air in house or vent in summer. Setting is adjustable from 60 degrees to 90 degrees F, with 4 degree fixed differential. Will handle up to 1/4 HP at 115V.

Goldline GL-30 Differential Control #16760

The GL-30 is the newest generation of solar differential controllers. It is field adjustable, accepts 115 VAC or 220 VAC. Sensors no included.



Key Features

- Adjustable "on" differential (8 to +25 degrees F)
- Adjustable high limit shut-off (105 to 212 degrees F or of is standard equipment)
- Provides 24 VAC power
- UL Listed
- E.S.D., E.M.I., and R.F.I. protected
- Utilizes 10K ohm sensors
- For all Closed Loop, Open Loop, Drain Back, Drain Down, and Air systems.

\$114.00



SB Sensor #08550

10K sensor for use with Goldline GL-30 control above. Flexible copper for bolt on or strap on installation.

\$ 15.00

Stiebel-Eltron SOM 6 Differential Control #14499

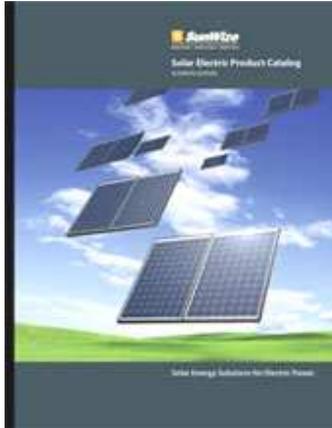
The Stiebel-Eltron SOM 6 controller for standard solar thermal systems. The SOM 6 controller provides a clear operating concept and is equipped with the newly developed illuminated combined display with system-monitoring. Flashing symbols for sensors, pumps and valves enable an immediate allocation of temperatures, temperature differences and active actuators.



- Illuminated system-monitoring-display
- Includes 2 temperature sensors
- Function control

\$199.00

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SOLAR ELECTRIC PANELS

The **SunWize SW-S130P** solar module delivers top-quality performance for all photovoltaic applications including telemetry, communications, security, rural electrification, water pumping and general battery charging. The SW-S130P can be used in single-module and multiple-module installations. Each module consists of 36 solar cells connected in series providing sufficient voltage for battery charging under extreme high temperatures. The modules are manufactured according to the strict requirements of international and US quality standards. 25-year limited warranty. The glass surface is impact resistant and allows maximum light transmission. Polycrystalline solar cells are encapsulated and bonded to the glass in multiple layers of ethylene vinyl acetate (EVA) and laminated with a white Tedlar™ backing insuring long life in severe environmental conditions. A weather resistant junction box accommodates all wiring methods including moisture-tight strain relief connectors and electrical conduit. Bypass diodes insure reliable operation. Anodized aluminum tubular frames add strength and durability. Frames come with predrilled mounting holes.



Product Information	
Model Name	SunWize SW-S130P
Cell type	Polycrystalline silicon 155 mm square
Maximum power rating (Pmax)	130 watts
Maximum power voltage (Voc)	17.4 volts
Maximum power current (Imp)	7.4 amps
Weight	30.86 lbs.
Dimensions	58.15 x 26.06 x 1.97

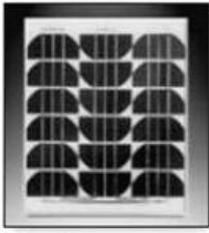
Price: \$449.00P

25 Year Limited Warranty

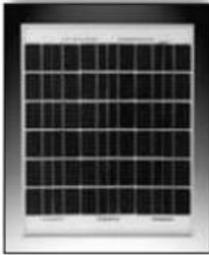
SMALL PV MODULES

SunWize OEM Series Solar Modules

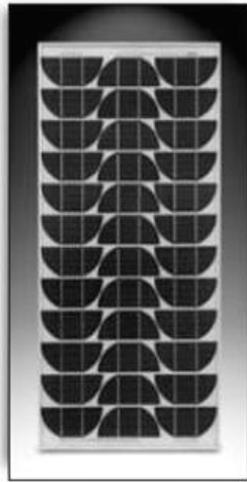
SunWize OEM modules deliver top-quality performance for all photovoltaic applications including rural electrification, water pumping, telemetry, communications, and general battery charging. Ideal for AC and DC installations, SunWize OEM modules can be used in single module and multiple-module systems. Each module consists of 36 solar cells connected in series providing maximum charging power. The glass surface is impact resistant and allows maximum light transmission. Single crystalline solar cells are encapsulated and bonded to the glass in multiple layers of ethylene vinyl acetate (EVA) and laminated with a white Tedlar™ backing insuring long life in severe environmental conditions. Bypass diodes contained within the junction box insure reliable operation. Anodized aluminum tubular frames add strength and durability to the modules. Includes pre-drilled mounting holes. The weather resistant junction box accommodates all wiring methods including moisture-tight strain relief connectors and electrical conduit. OEM series modules are ISPRA certified to IEC 61215 standards and FM and CSA approved for Class 1, Div. 2 hazardous locations. OEM series modules carry a 20-year, 80% power output warranty. Continued on next page.....



SunWize OEM10



SunWize OEM20



SunWize OEM40

Module	OEM-10	OEM-20	OEM-40
Peak Power / Watts	10	20	40
Peak Voltage / Volts	16.4	16.5	16.7
Peak Current / Amps	.61	1.22	2.4
Nominal Volts	12	12	12
Length / Inches	15.2	20.86	38.3
Width / Inches	14.8	16.93	17.6
Price	\$99.00	\$139.00	\$199.00

CHARGE CONTROLLERS AND BATTERY CHARGERS



Morningstar - ProStar



ProStar's intelligent control and unique features significantly improve battery performance. The ProStar features highly accurate set points, low voltage drops, and sealed and flooded control parameters. ProStar provides higher charging efficiency, increases the battery capacity, reduces water loss, and extends the life of the battery. Five year limited warranty.

Features:

- Low voltage disconnect
- Operating temperatures of - 40° C to +85° C
- PWM battery charging
- Automatic equalization of wet batteries
- Temperature compensated

ProStar 30

Model	Voltage	PV Current	Load Current	Dimensions	Unit Weight (oz.)	Price (US)
PS 15	12/24 V	15 amps	15 amps	6.01" x 4.14"	12	\$108.00

PS 15M (w/meter)	12/24V	15 amps	15 amps	6.01" x 4.14"	12	\$172.00P
PS 15M-48V	48V	15 amps	15 amps	6.01" x 4.14"	12	\$219.00
PS 15M-48V-PG	48V	15 amps	15 amps	6.01" x 4.14"	12	\$232.00
PS 30	12/24	30 amps	30 amps	6.01" x 4.14"	12	\$149.00
PS 30M (w/meter)	12/24V	30 amps	30 amps	6.01" x 4.14"	12	\$212.00
PS 30M-PG	12/24V	30 amps	30 amps	6.01" x 4.14"	12	\$228.00

DC PUMPS



Shurflo™

Shurflo 2088 series water pumps offer an inexpensive, simple to rebuild, rugged booster pump that can deliver up to 3.6 GPM from a 12 or 24 VDC battery bank. A good pump for a cabin or small home system. They can run dry without damage and are UL listed.

The 9300 model submersible pump will provide many years of service and can be rebuilt in the field with simple tools. This pump has become a favorite with ranchers, remote homeowners and missionaries for the smaller solar arrays needed and ease of use. This pump produces around 1 GPM from up to 220 feet of lift.

Shurflo 2088

Model	Voltage	Current	Flow Rate	Vertical Lift	Weight	Price (US)
Deluxe Flo 2088-443-144	12VDC	9.1A	3.5GPM	20-230 ft.	4.8 lbs.	\$118.00
Prem Flo 2088-514-145	12VDC	9.0A	3.6GPM	20-230 ft.	6.8 lbs.	\$189.00
Sealed Prem 2088-414-534	12VDC	9.0A	3.6GPM	20-230 ft.	6.8 lbs.	\$250.00
Deluxe Flo 2088-474-144	24VDC	2.71A	3.0GPM	20-230 ft.	4.9 lbs.	\$135.00
Sealed Flo 2088-574-534	24VDC	4.5A	3.6GPM	20-230 ft.	6.4lbs.	\$250.00
Shurflo 9325-043-011 Submersible	24VDC	2.6A	1.0GPM	20-230 ft.	6 lbs.	\$735.00
902-100 Pump Controller	24VDC					\$130.00
902-200 Pump Controller	12/DC					\$320.00

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Shades of Comfort



Warm Window shades combine fashion and function while considering your needs for comfort, style and energy savings. These insulating curtains dramatically reduce heat loss through windows making any room comfortable and cozy all year long.

When closed, Warm Window insulating shades darken rooms during the day making any room ideal for daytime sleeping. The insulating capacity also reduces noise pollution from outside sources.

You can combine Warm Window with a decorator cover fabric to compliment, contrast or match your decor.

Whether you prefer the crisp tailored look of a Roman shade, the soft folds of a hobbled shade, the full lush look of a balloon shade or the easy operation of a side-draw shade, Warm Window insulating shades will enhance the appearance of any room. Your decorating possibilities multiply by adding other window treatments such as draperies, cornices, valances, swags or shutters.

WATCH "HOW TO" VIDEO AT www.solar-components.com/quilts.htm

Shades of Savings



Your windows are usually responsible for the greatest amount of heat loss in your home—even if you have storm windows or the newer dual pane thermal windows. As a result the window covering you choose has a tremendous impact on energy consumption. The unique Warm Window insulated curtain system dramatically increases the R-value of your windows and makes your home more comfortable in any climate any time of year. These shades reduce heat loss through windows by more than 80% in the winter and reduces solar heat gain in the summer by up to 79%. You save on expensive heating and cooling costs while saving energy beautifully.

How It Works

The Warm Window System

The Warm Window fabric consists of four layers of different fabric quilted together in 4"-wide lengthwise channels designed to reduce the flow of energy through your window glass. The layers are:

- Lining with fabric protector
- High density needled hollow fibers
- Reflective polyethylene moisture vapor barrier
- Metallized Mylar with air-trapping fibers

You will cover the side of your Warm Window shade that faces the room with a decorative fabric of your choice. Choose a cover fabric that is tightly woven, of light to medium weight, and made of cotton or a cotton/polyester blend. Fabrics with fabric protector are an excellent choice for window coverings. Avoid highly textured or pile fabrics and loosely woven or stretch fabrics. You should also avoid fabrics with horizontal stripes as they may interfere visually with the folds in the shade.

The system is complete with a magnetic seal achieved from sewing magnetic strips into the seams of the shade and affixing magnetic tape to the window frame or wall.

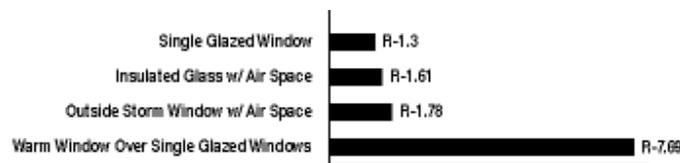
How Does This System Work?

Warm Window insulated shades are carefully engineered to combat all four major causes of heat loss.

1. Conduction is reduced by trapped air spaces between the fibers and layers of insulated fabric.
2. Infiltration is reduced by the impervious polyethylene and tight magnetic edge seal.
3. Convection is reduced by the magnetic edge seal.
4. Radiation is reduced by the reflective Mylar which reflects radiant heat back into your home and also reflects away solar gain in summer.

What is the R-Value

The effectiveness of any material in preventing energy from flowing through it is defined in terms of R-value. The higher the R-value of a given material, the greater it's insulating capacity. This chart illustrates some R-value comparisons.



A 3/8" diameter round or oval, steel or aluminum weight bar is required at the bottom of the shade to give it rigid stability. The Warm Window weight bar consists of pipe sections and rods that slip inside the pipe. You can join sections of the weight bar by staggering the joints of each pipe and rod.

The only items you need to complete assembly are Warm Window fabric, decorative cover fabric, magnetic tape, and spray adhesive.

Side-draw Track Kit

The perfect solution for patio doors. This unique track system permits Warm Window insulating drapes to be fabricated and installed vertically like a drapery. The specialized track has a magnetic face that creates a seal at the top of the shade. Each kit contains:

- 2 tracks each 54" long
- 14 sliding snap carriers
- 4 end caps
- 7/8" nylon snap tape 112" long
- 30" drapery wand
- 1 plastic connector
- 2 blocking screws

Warm Window Price List

54" Wide Warm Window Material linear yard _____ #07800 ___ \$20.00

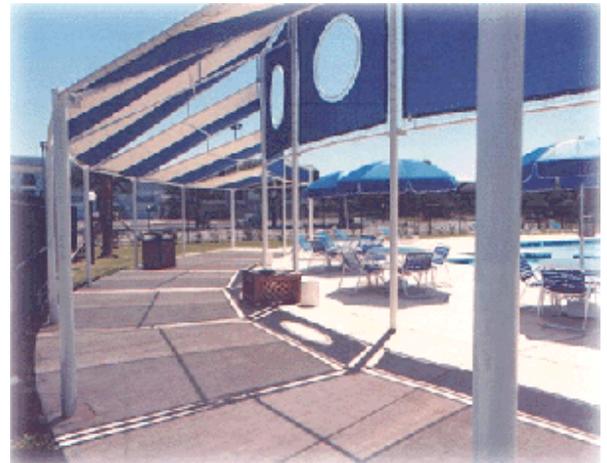
Pack of 20 - 3.5 Long Magnetic Strips _____ #07990 ___ \$ 8.95

Pack of 100 - 3.5 Long Magnetic Strips	#07990	\$ 8.95
100' Roll Magnetic Tape	#07860	\$39.75
12' Roll Magnetic Tape	#07810	\$ 6.89
3/4" Wide Hook & Loop Combination White 25' Long	#07920	\$14.50
3/4" Wide Hook & Loop Combination White 50' Long	#07930	\$26.50
3/4" Wide Hook & Loop Combination White 75' Long	#07930	\$39.50
Side-Draw Track Kit	#07997	\$79.95
Warm Window Instructional DVD	#07900	\$ 9.95
Steam-A-Seam 1/2" x 20yd. Roll	#07822	\$ 3.39

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Enduro® Shade

Enduro® Shade products offer a variety of solutions for you unique applications and designs. **Enduro®** Shade Cloth is manufactured from high quality vinyl impregnated polyester yarn, and is woven and heat set for stability. It is fire retardant (approved by the California State Fire Marshall) and has the longest life of any shading product on the market. **Enduro®** Shade Cloth is available in 80% and shade factors. It's the shade many large growers and nurseries use to protect their valuable plant stock from too much sun.



Skylight Shade Cover

Enduro® fabric is ideal for skylight coverings. The Pre-packaged Skylight Shade comes complete with a 5' x 5' piece of silver 80% shade fabric with a neoprene rubber tie rope for a standard residential skylight. Significantly reduces cooling costs without obstructing view.



Skylight Shade _____ #12640 _____ \$ 68.00



HEAT CONTROL INSULATING FILM



Without Film



With Film

Excellent Year-Round Heat Retention

- Reflects up to 55% of summer heat
- Retains up to 45% of winter heating
- Reduces up to 99% of UV Rays
- Saves Energy and Money
- Safe for single and dual-pane windows
- Available in 3 sizes: 2'x15', 3'x15', 4'x15'
- Light Grey Color

Gila Heat Control Insulating Film _____ 36" wide x 15' long _____ #12004 _____ \$32.99

Gila Heat Control Insulating Film _____ 48" wide x 15' long _____ #12005 _____ \$42.99

Film Application Tool Kit _____ #12006 _____ \$ 5.00



Helps keep you warmer in the winter and cooler in the summer.

Also helps keep your furniture from fading.

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Sun-Lite® HP Solar Glazing



Sun-Lite® Pre-Fab Solar Glazing Panels



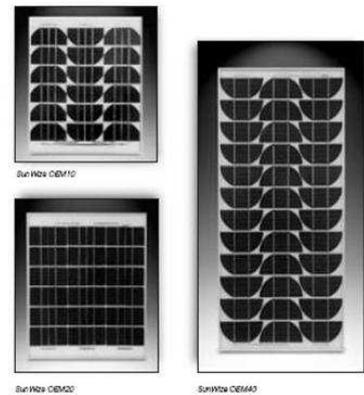
Solar Storage Tubes



Warm Window Insulating Curtains



Solar Hot Water Panels and Systems



Solar Electric Panels and Components

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