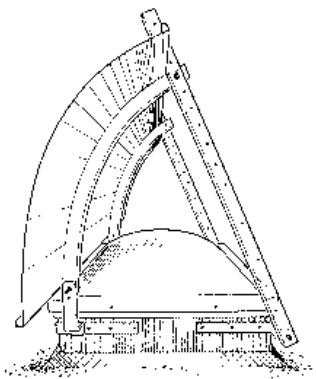


SUNBENDER® REFLECTOR / SHADE

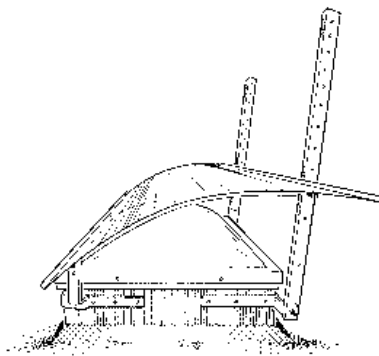
Product Description

The Sunbender® Reflector / Shade is designed to fit any well-built, sturdy curb mount skylight. During the heating season it reflects from 100,000 to 200,000 extra Btu's per square foot of skylight into the building below. In the lowered summer position, it shades the skylight and greatly reduces heat gain, while still allowing light to enter.

Positions



WINTER



SUMMER

Sizing

The Sunbender® should be 2 ft longer than the skylight it is installed on. This 1 ft extension on the East and West ends is important for good summer shading. The most effective shape for a skylight is a rectangle between 22" and 40" wide with the long dimension running E-W. A skylight opening wider than 42" will not be completely shaded in the summer by a standard Zomeworks Sunbender® Reflector / Shade.

General Information

Ten percent of a roof area in skylights with Sunbender® Reflector / Shades is sufficient to supply a large share of the winter heating, while the same area shaded during the summer provides adequate lighting without overheating. The key to the Sunbender's performance is the adjustable reflector which is far more effective than a fixed overhang. To allow desirable heat during April, a fixed overhang admits unwelcome heat in August. In New Mexico, the Sunbenders are lowered in late April or early May, and raised in October or even as late as November.

Heating

During the winter, the reflector directs the sun onto the floor below. A special mass wall to absorb the heat is unnecessary; an existing slab does well. The curved shape of the reflector concentrates the reflected light so that the skylight fixed in a horizontal plane admits as much or more sun as it would if tilted at an optimum angle. Since the reflected light is concentrated near the base of the Sunbender a 22" wide skylight admits more energy per square foot than one that is 40" wide.

Cooling

Internal shades allow direct sun to enter the glazing, which results in over-heating. Blocking the sun before it strikes the glazing is the most effective means of shading. During the summer, the reflector shade is lowered to eliminate direct solar gain, but left high enough to allow plenty of diffuse daylight to enter the space below. The lowered reflector protects the skylight from rain as well as sun, allowing the skylight to be opened more frequently for ventilation at night.

Wind Resistance

Sunbender® Reflector / Shades are built to withstand 30 lbs / sq ft wind loading, and have a specially constructed fastening scheme to prevent rattling.

Specifications/Components

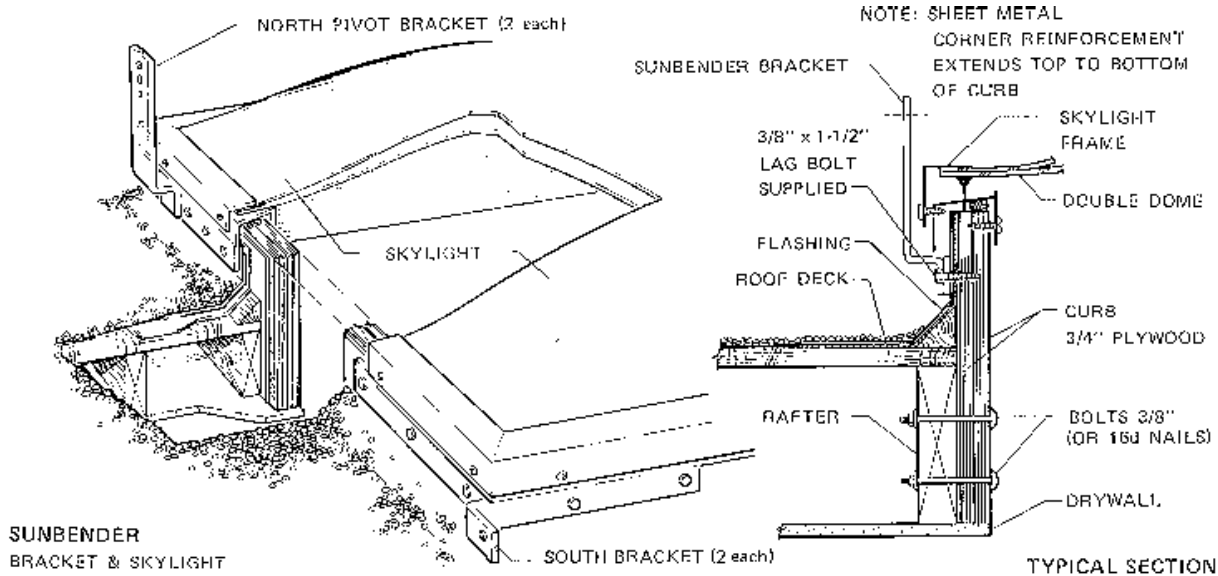
Sunbender Length (E-W):	6'	8'	10'	12'
Reflector Pan Thickness: (Aluminum Only)	.063"	.080"	.080"	.080"
Struts:	Non-Telescoping 2" x 1" x 1/8" aluminum channel or 12 gauge galvanized steel			
Ribs:	1" x 2" x 1/8" rect aluminum tube or 16 gauge galvanized steel			
Hardware:	3/8" stainless steel or zinc plated			
Mounting Brackets:	3/16 x 1 1/2" primed steel			

NOTES: Standard aluminum reflector pans are 44" high.
Mill-finished aluminum with clear anodizing available.

Reflectivity: 70% 56" high reflector pans are available by special order.

Pan Sizing: Reflector pans other than aluminum shall be supplied by the customer unless otherwise specified at time of order. Pan thickness will vary based upon the material and size of the skylight.

Installation Details



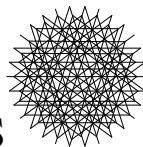
Warranty

Zomeworks Corporation warrants the Sunbender® Reflector / Shade for a period of five years against damage from winds up to 85 mph. Zomeworks Corporation is not liable for any damage due to improper installation.

Ordering Information

There is a crating charge for any order shipped by common carrier. All prices are FOB Zomeworks Corporation, Albuquerque, NM. Shipments are freight collect. Canadian residents, pay in US Dollars. Allow 2-4 weeks lead-time. Prices are subject to change without notice.

SUNBENDER® is a registered trademark of Zomeworks Corporation.



ZOMEWORKS CORPORATION

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