



Clearspan Skylights



NOW R20 (.05 U)
Re-engineered to provide superior thermal performance as a total system. Far superior energy and daylighting performance to any other technology.

Clearspan Skylights

Structural skylights and glazed structures for daylighting any building!

Structures Unlimited, Inc.

Aluminum box beams provide the basis for Structures Unlimited, Inc. clearspan skylight systems. Kalwall roof panels are secured to the box beam superstructure to form a durable, rigid, cohesive structure. The panels and beams are thermally compatible and the unique, horizontal overlap eliminates leaks that plague other systems.

Structures Unlimited, Inc. skylight structures do not need gutters, drains and weep holes like other skylights that are prone to leaking and condensation. A structural thermal break option provides the ultimate in energy performance and condensation control. High-performance architectural coatings are applied to all exposed metal surfaces, such as the aluminum box beams and Kalwall installation system. All fabrication and finishing are performed in ideal manufacturing environments prior to shipment to the job site.

Structures Unlimited skylights offer far lower operating costs than other systems and all components are designed for minimal maintenance and upkeep.



Allen WTP, Littleton, CO; CDM Architects



Metro Family YMCA, Portland, OR; BOORA Architects

NEW
Aluminum
truss system
now available!



Cooper Medical, Voorhees, NJ
JK Roller, Architect

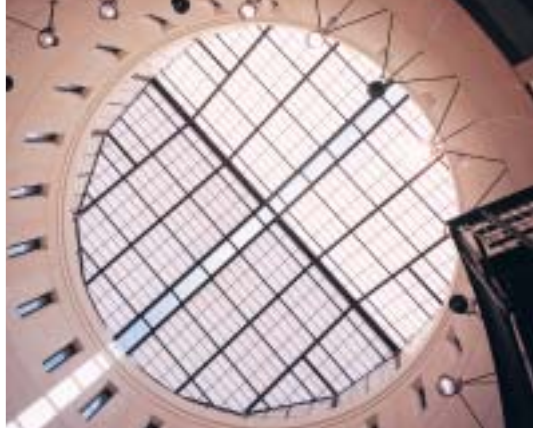
Human comfort levels and building operating costs are key factors in the design and performance of our skylights. Diffuse daylight provides natural brightness without glare... significantly reducing summer heat gain and air conditioning costs, while the highly insulated panels (up to R-20, U=.05) control winter heat loss. Substantial savings can be realized in HVAC equipment sizing and operating costs.

From Canadian snowstorms to Caribbean hurricanes, each skylight is custom designed and engineered to meet or exceed all local snow and wind load requirements. Our computer-generated shop drawings will assist in layout and location of the box beam connections. We can also provide custom reaction reports for use by the project architect, engineer or contractor.

A computer-modeled daylight analysis can be generated to take the guesswork out of estimating approximate interior daylight levels. This is an excellent design tool in achieving the 2% Daylight Factor as suggested by the U.S. Green Building Council's LEED® Rating System... up to 20 LEED credits can be attained with Structures Unlimited.

Design options include: pastel-tinted exterior face sheets, retractable roof panels, and select areas of insulating glass.

**Clearspans
to 150'!**



Metropolitan Community College, Sarpa Center/
La Vista Public Library, La Vista, NE; Zenon
Beringer Mabrey
Partners, Architect;
Tom Kessler,
Photography

Sylvan Abbey Memorial Park,
Clearwater, FL; David Wilson, Architect

Goasis, Ashland, OH
WD Partners, Architect

**A leader in
sustainable
architecture.**



Life Time Fitness Centers; Don Pittlik, Photography

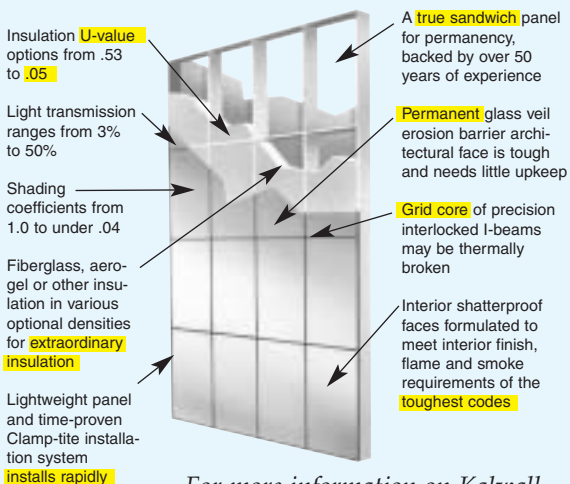


Palisades Center,
West Nyack, NY
Dal Pos
Architect, P.C.



Since 1955
Kalwall

Structures Unlimited, Inc. skylights utilize the patented Kalwall® structural roof panel system. It's the most highly insulating, diffuse-light-transmitting technology in the world! Structural thermally broken panels – NFRC Certified, and ICBO and UL Listed.



For more information on Kalwall,
visit their Web site at www.kalwall.com

Areas with vision glazing available!

Energy and Daylighting Characteristics

Listed are a few of the light transmitting, solar heat gain and insulating factors of the many common face combinations of Kalwall Structural Roof Panels. Many other options are available.

FACE SHEET COMBINATIONS		% LIGHT TRANSMISSION AT ^{note 1} VARIOUS INSULATION U-VALUES				SKYROOF SOLAR HEAT GAIN COEFFICIENT @ 0° ∠ ^{note 2}			
EXTERIOR COLOR	INTERIOR COLOR	.23 "U" ^{note 3}	.14 "U" ^{note 3}	.10 "U" ^{note 3}	.05 "U" ^{note 3}	.23 "U" ^{note 3}	.14 "U" ^{note 3}	.10 "U" ^{note 3}	.05 "U" ^{note 3}
Aqua	White	17	6	4	12	0.19	0.10	0.07	0.11
Rose	White	18	6	4	12	0.19	0.10	0.07	0.11
Ice Blue	White	20	8	6	15	0.22	0.11	0.07	0.12
White	White	15	8	5	12	0.16	0.09	0.06	0.09
Crystal	White	20	12	8	15	0.23	0.11	0.07	0.11
Crystal	Crystal	30	15	10	20	0.27	0.14	0.09	0.12

1. Approximate values by ASTM E-972.
2. At 0° incident angle.
3. U-values determined by NFRC test method at certified labs.

NEW Kalwall 100™ Panels for even greater energy performance!

FACE SHEET COMBINATIONS		% LIGHT TRANSMISSION			SKYROOF SOLAR HEAT GAIN COEFFICIENT		
EXTERIOR COLOR	INTERIOR COLOR	.08 "U"	.15 "U"	.55 "U"	.08 "U"	.15 "U"	.55 "U"
Crystal	Crystal	8	17	50	0.09	0.21	0.56
Crystal	White	7	14	35	0.08	0.18	0.43
White	White	5	12	20	0.06	0.14	0.33

Check with Technical Services Department for further clarification. Since these tables are of a very technical nature, please consult your heating and ventilation engineer for proper interpretation.

Other Design Configurations

- Awnings, canopies and walkways
- Removable skylights
- Swimming pool enclosures



Midtown Community Center, Newport News, VA
Forrest Coile Associates, Architects



University of Central Florida, Student Union Building, Orlando, FL
The Scott Partnership Architecture, Inc.

For more information on our Pool Enclosures, visit our Web site or see Sweet's 13 34 13.19/STR.



Aquarium at Mandalay Bay, Las Vegas, NV; Klai-Jaba Architects



Community College of Rhode Island, Newport, RI
Newport Collaborative Architects, Inc.

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Structures Unlimited, Inc.

Energy-Efficient Skylights & Pool Enclosures

Design, manufacture and construction backed by over 50 years of experience.

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Email: info@structuresunlimitedinc.com

U.S. Pat. Nos. 2,931,468 – 2,981,382 – 3,082,848 – 3,082,849 – D196,778 –
D198,259 – D199,524 – D199,525 – 4,129,973 – 4,557,090 and Pats. Pend.

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www.SkylightInfo.com



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