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Structures Unlimited, Inc.
Energy-Efficient Skylights & Pool Enclosures

The ultimate technology for enclosed swimming pools.



Pool Enclosures and Skylights

structuresunlimitedinc.com



Full UV Protection

- Retractable Roof Panels • Condensation-Free • Corrosion-Proof • Shatterproof • Superior Structural Integrity
- The Most Highly Insulating • Thermally Broken • Filters the Sun's Harmful Rays • Long Life Cycle
- Proven Performance in Every Climate • Single-Source Responsibility From Design to Installation



Structures Unlimited, Inc.

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Pool Enclosures and Skylights

Structures Unlimited, Inc. has provided quality, energy-efficient pool enclosures and natatoriums since 1968. There is simply no system available today that can deliver diffuse, museum-quality daylight™ and eco-friendly thermal performance like Structures Unlimited. All of our enclosures are pre-engineered and pre-finished to ensure a beautiful, long-lasting environment.

In today's energy-conscious environment, the insulating value of a building is critical to its long-term value. Unlike glass or polycarbonate systems, Structures Unlimited delivers natural daylight without sacrificing thermal performance. The highly insulated Kalwall panel can deliver an astounding R-20 – the same performance as a 6-inch stud wall!

- Pre-engineered structural aluminum framing system eliminates corrosion and reduces the use of ferrous metals in humid, chlorine-laden environments
- Virtually maintenance-free
- Sliding glass doors and fixed windows available
- Meets national and local building codes
- Provides glare-free, natural daylight
- Motorized operable roof systems available
- Roof systems meet OSHA fall-through requirements
- Single-source engineering, manufacturing and installation

No one delivers daylight like we do

As a strategic partner to Kalwall Corporation, daylighting comes naturally. Kalwall invented the composite structural sandwich panel in 1955 and has improved on it ever since. Glare can be an extreme safety hazard in any aquatic environment, especially competition pools and natatoriums. The Kalwall panel delivers exactly the right type of daylight for a pool environment – soft, glare-free daylight that's perfect for swimmers and divers.

Operable Roofs

Want to enjoy the outdoors? Simply turn a switch and let the sun – or moon – shine in. Our operable skylights are simple, affordable and reliable.



• Active-adult communities



Aluminum Truss Systems are available with Clearspans over 100'!

• Schools and colleges • Municipalities

Structures Unlimited, Inc.



• Hotels and resorts • Private residences

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• Military facilities • YMCAs • Fitness clubs



There is no substitute for this unique composite fenestration technology! Kalwall is a true sandwich panel formed by permanently bonding specially formulated, fiberglass-reinforced translucent faces to a structural composite I-beam grid core. The resultant panel is a full 2 3/4" (70 mm) thick, yet weighs only 1 1/2 pounds per square foot — compare the following performance characteristics with plastic glazing panels that measure only 5/8" (16 mm) or 1" (25 mm) thick.

Kalwall's structural thermal break design provides superior insulating values and the ultimate in energy performance and condensation control. Kalwall's Condensation Resistance Factor (CRF) exceeds 90 when measured at the grid core.

Energy and Daylighting Characteristics

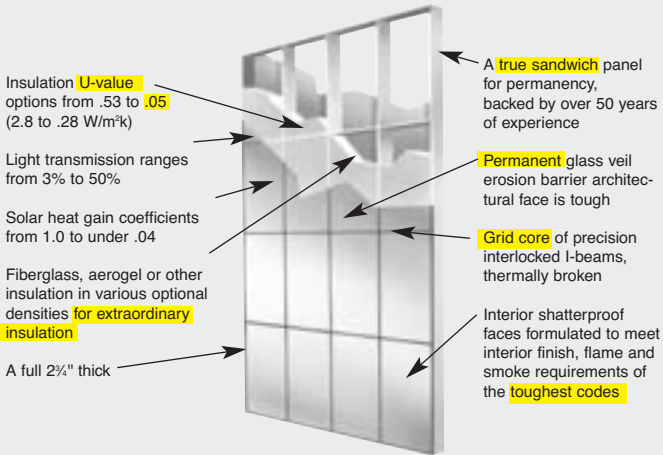
Listed are a few of the light transmitting, solar heat gain and insulating factors of the many common face combinations of Kalwall Structural Roof Panels. Many other options are available.

| 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 |



U-value SI conversion: 1.0 W/m²k = 0.176 Btu/hr/ft²/°F
 1. Approximate values by ASTM E-972.
 2. At 0° incident angle.
 3. U-values determined by NFRC test method at certified labs.

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



This is NOT possible with competitive systems!



Your connection to more information on daylighting large spaces!

Structures Unlimited, Inc.

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

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