

Kalwall®

Since 1955

High-performance Translucent Building Systems



Wall Systems



Pre-engineered Skylights

Bill Lempke Photography



Unitized Curtainwall



Custom Skylight® Skylights



Window Replacement



Walkways & Canopies



Standard Unit Skylights



Clearspan™ Skylights

Green/Sustainable — LEED® Contributor

daylightmodeling.com
skylightinfo.com
kalwall.com

Wall Systems



- Structural Sandwich Panels up to 5' x 20' (1.5 m x 6 m), 2 $\frac{3}{4}$ " (70 mm) or 4" (100 mm) thick are secured to building with simple, Clamp-tite™ aluminum extrusions. System seals panel/panel and building, allowing for expansion/contraction and proper weepage to channel any moisture to building exterior.
- May be either flat or curved sandwich panels.
- Controlled, natural daylight combined with finely tuned thermal and solar controls.

**ATFP
Compliant**

Unitized Curtainwall



- Factory-assembled 2 $\frac{3}{4}$ " (70 mm) sandwich panels, operating/ fixed windows, louvers, even opaque panels.
- Provide rapid installation and permanent weather seal, unlike most stick-built, "frame and glaze" components that are all field-assembled.
- Delivered to the job site in large preassembled units up to 5' x 35' (1.5 m x 10.7 m) and larger.

The Single-source Solution!

Window Replacement



- Kalwall heavy-duty Window Replacement Systems – like our prefabricated Curtainwall Systems – are factory-assembled into easily managed building units.
- Kalwall provides optimum performance-controlled daylighting and still allows for fulfillment of vision/ventilation requirements.
- Vandal, graffiti, and impact resistance add up to minimal maintenance expenses with Kalwall.

Standard Unit Skylights



- 2 $\frac{3}{4}$ " (70 mm) and 4" (100 mm) thick flat Skylights up to 5' x 20' (1.5 m x 6 m).
- Pyramids from 4' (1.2 m) square up to 20' (6 m) square.
- Geo-Roof® units in 17 standard-sized units from 8' to 24' diameter (2.4 m to 7.3 m).
- Available knocked down or prefabricated.

OSHA Compliant

Pre-engineered Skylights

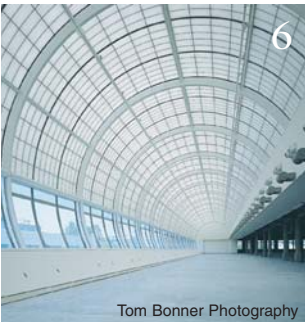


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- Centerline self-supporting ridges with 20°, 27°, 33°, 45°, slope to 24' (7.3 m).
- Kalcurve® 180°, Low-Profile 90° in 1' (300 mm) curb width increments.
- Lightweight – less than 3 lbs. per square foot (16 kg/m²) means sub-structure may be minimized. Only thrust-bearing curbs designed to accommodate local live, snow and wind load designs are required.

Custom Skyroof® Skylights



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Tom Bonner Photography



- Sandwich Panel Systems over sub-structure designed and installed by others.
- Flat, curved or combination for design versatility and consistent with all Kalwall Systems.
- Easy, fast installation, coupled with large-sized panels to eliminate troublesome joints.
- 2¾" (70 mm) or 4" (100 mm) possible

GREEN — LEED®

Walkways & Canopies



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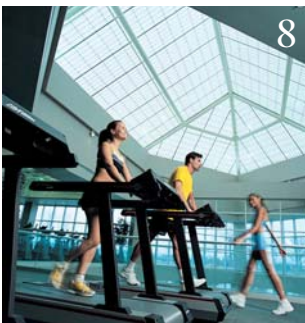


- Combinations of sandwich panels and framing components.
- Standard modular walkways.

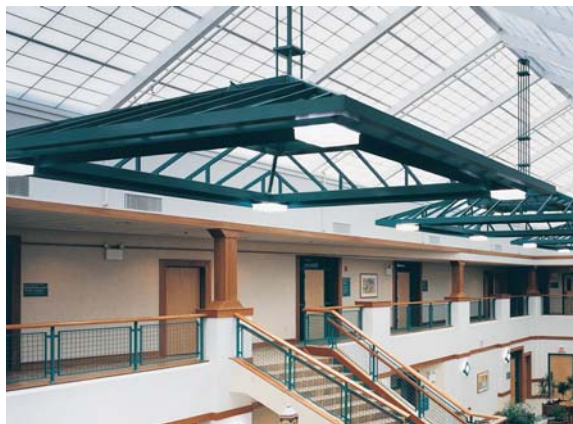
NEW!

- Fully pre-engineered canopies and walkways, including aluminum structure, are now available!

Clearspan™ Skyroofs



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- Taking Kalwall to another dimension... aluminum box beams and Kalwall panels form monolithic, structural enclosures.
- Design control, fabrication, delivery and complete installation with single-source responsibility!
- Installations completed in weeks – not months – due to component standardizations and CAD technology.
- Complete buildings, including Pool Enclosures, featuring built-in non-corrosion and moisture resistance.

Kalwall's 8 Systems allow designers to achieve the most desirable and efficient balance of natural light, solar gain and thermal insulation.



High-Performance Translucent Building Systems

Kalwall invented the translucent sandwich panel in 1955. Since that time, Kalwall has been the world leader in the development of Museum-quality Daylighting™. Today, our standard Kalwall is a truly remarkable composite just beginning to evolve for the future!

A unique composite sandwich panel, either curved or flat, Kalwall is formed by permanently bonding specially formulated, fiberglass reinforced translucent faces to a grid core constructed of interlocked, extruded structural aluminum or composite I-beams. The panel's natural thermal properties are further enhanced by adding various densities of translucent spun glass "batts" or aerogel and a thermally broken grid core. U-value options range from .53 to .05 (3.0 to 0.28 W/m²K) by NFRC methods for 2 3/4" (70 mm) and 4" (100 mm) panels. The total effect is a fenestration system that is beautiful, contemporary, colorful and TOUGH. One that requires almost no maintenance... and is low in cost to buy, erect and own!

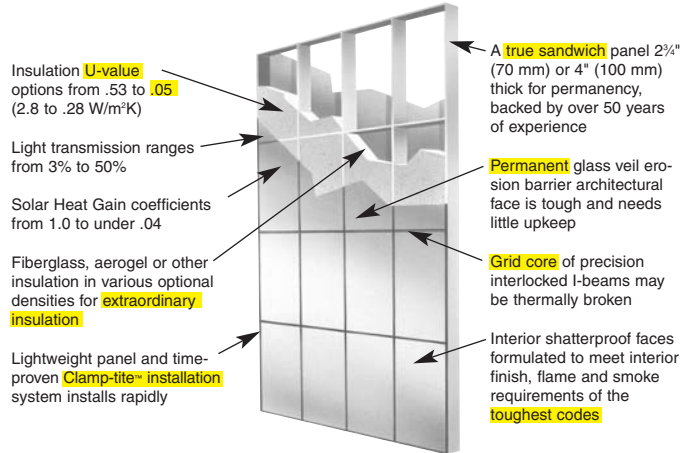


Standard Panel Metrics

- Width:** 4' and 5' (1.2 and 1.5 m), other widths up to 5' (1.5 m) optional
- Length:** 3' to 20' (.9 to 6 m) standard, 16' (5 m) max. for Skyroof
- Thickness:** 4" (100 mm) flat panels
2 3/4" (70 mm) flat or curved panels
1" (25 mm) window glazing only
- Weight:** Systems weigh under 3 lbs/ft² (16 kg/m²)
- Panel U-Value:** .53 to .05 (3.0 to 0.28 W/m²K)
- NFRC System U-Value:** .46 to .10 (2.7 to .29 W/m²K)

Light-years Ahead!

Kalwall creates truly people-friendly, controlled daylight environments that enhance the comfort, practicality and elegance of any space. Kalwall is unique in its ability to provide glare-free daylight that is soft yet bright and illuminating. When viewed from outside a structure at night and back lit by the building's interior lighting, Kalwall creates a dramatic, soft glow that often becomes an entire building's statement of identity.



A Highly Insulated Structural Unit...



Outstanding load capacity and structural integrity!

Quick, Low-cost Installation

A system of interconnected structural components, forming rigid, modular units, replaces the heavy mullions and floating panels of other systems. Normal loads are dispersed throughout the panels, rather than converging on the mullions. Clamp-tite closures serve only a sealing function. The unique composite construction provides extreme structural strength unlike polycarbonate or acrylic products. Structural components permit even the largest panel unit wall sections to be installed quickly and efficiently.



See our "Bright Ideas" Web sites!
kalwall.com daylightmodeling.com

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