SKYROOFS®

Pre-engineered Skyroofs

Custom Skyroofs

Clearspan™ Systems
Pre-engineered Skyroofs

Flat or curved, Pre-engineered Skyroofs can span up to 25’ (7620 mm) offering the ultimate in energy-efficient, diffuse daylighting. Designed to withstand hurricane-force winds and high snow loads, all are OSHA fall-through compliant.

**Pre-engineered Skyroofs**

All of our Pre-engineered Skyroofs offer attractive, affordable toplighting solutions for any daylit space. These systems are available in many configurations including:

- Standard, aluminum or thermally broken interlocking I-beam panel grid core
- Standard or thermally broken aluminum Clamp-lite™ fastening system
- U-factors range from 0.53 - 0.05 (3.01 to 0.28 W/m2K)
- Solar Heat Gain Coefficients (SHGC) from 0.65 to 0.04
- Visible Light Transmission (VLT) values from 3% to 58%

**Self Supporting Ridge Roofs**

Self Supporting Ridge Roofs can span up to 24'-0" (7315 mm) making them an efficient, budget-friendly toplighting solution that delivers daylight deep into spaces.

- Self Supporting Ridge Roofs are available in any slope between 18.43° and 45°
- Standard slopes are: 18.43°, 20°, 27.25°, 33.33° and 45°
- Translucent Kalwall or glass IGU gable end walls are available
- Thermal covers are available for all Clamp-lite™ aluminum components
- Larger spans are available as Custom Skyroofs

**Kalcurve® 90° Low Profile Vaults**

Kalcurve self supporting 90° Low Profile Vaults can span up to 25'-0" with translucent or glass end walls providing an elegant toplighting solution that always delivers.

- Available in spans from 6’ (1800 mm) to 25’ (7600 mm) in 1’ (300 mm) increments
- Clamp-lite™ fastening system with standard and custom KCRF™ finish options
- Shoji 12” x 24” (300 mm x 600 mm) | 10” x 24” (250 mm x 600 mm) are standard
- Shoji 8” x 20” (200 mm x 500 mm) is recommended for long span applications
- Various angles of curvature and non-standard spans are available as Custom Skyroofs

**Kalcurve® 180° Vaults**

Kalcurve provides exceptional toplighting in a classic form. Self supporting 180° Vaults can span up to 20'-0" and are available with either translucent or glass end walls.

- Available in spans from 6’ (1800 mm) to 20’ (6100 mm) in 1’ (300 mm) increments
- Clamp-lite™ fastening system with standard and custom KCRF™ finish options
- Shoji 12” x 24” (300 mm x 600 mm) | 10” x 24” (250 mm x 600 mm) are standard
- Shoji 8” x 20” (200 mm x 500 mm) is recommended for long span applications
- Non-standard spans are also available as Custom Skyroofs
Our Custom Skyroofs offer designers the same performance offered by our Pre-engineered Skyroofs but, with even greater flexibility by combining Kalwall translucent panels along with sub-structures designed and installed by others.

**Custom Skyroofs**

For larger Kalwall applications, with sub-structures designed and installed by others, a wide range of flat panel sizes and shapes are available. Consult factory for details.

**Kalwall and Kalwall 100 flat panels are available over structural supports by others**

**Custom shed roofs, ridge roofs, pyramids, segmented domes and complex geometries**

Shoji 12” x 24” (300 mm x 600 mm) | 10” x 24” (250 mm x 600 mm) are standard

Shoji 8” x 20” (200 mm x 500 mm) is recommended for long span applications

Tuckerman and Staggered grids are optional. Not available in Verti-kal™ or Ladder

**KALWALL 100**

**Kalcurve® Custom Skyroofs**

For custom Kalcurve applications, a wide range of options are available for supported roofs. Custom spans for self supporting Low Profile and 180° Vaults are also available.

90°, 180°, or custom radii available - min. 3’ (900 mm) | max. 75’ (22860 mm)

Clamp-tite™ fastening system with standard and custom KCRF™ finish options

Shoji 12” x 24” (300 mm x 600 mm) | 10” x 24” (250 mm x 600 mm) are standard

Shoji 8” x 20” (200 mm x 500 mm) is recommended for long span applications

Not available with: Kalwall 100 | Lumira® aerogel | thermally-broken Clamp-tite™

**CUSTOM KALCURVE LOW PROFILE + KALCURVE 180° VAULTS**

**Buurtsporthal Parkloods | Antwerp, Belgium | Verdickt & Verdickt Architecten (below)**
Removable Skylights

Removable Skylights are available in many configurations including center ridge, pyramid and shed roofs for projects where large equipment must be periodically accessed.

- Provides occasional access for servicing and replacing large equipment
- Simple, reusable Removable Skylights with lift-up flashing detail
- Integrated ring bolts for lifting Removable Skylights with clip angles at curb
- Lightweight systems - typically less than 5 lbs/ft² (24.41 kg/m²)
- Consult factory for design parameters based on project-specific criteria

Specialty Applications

Custom Skyroofs can be engineered to meet a wide range of specialty applications while delivering balanced daylight deeper into spaces than conventional glazing systems.

- Windborne debris resistance - tested and certified up to large missile D
- Blast resistant systems meet DOD UFC 4-010-01 anti-terrorism force protection
- Factory Mutual certified roof systems: FM 4471
- OSHA fall through protection
- Class A roof systems

Please visit KALWALL.COM for all custom skyroof specifications, CAD details, BIM families & performance charts online
Clearspan™ Systems

Take daylighting to a whole other level by combining lightweight, corrosion resistant aluminum sub-structures with Kalwall translucent sandwich panels to form Clearspan Systems by our strategic partner, Structures Unlimited, Inc.

Clearspan Systems

Turnkey daylighting solutions from the premier single-source manufacturer, Structures Unlimited, offer all the benefits of the Kalwall panel plus so many more including:

- Clearspans of over 100' (30 m) utilizing structural aluminum framing
- Total curb-up responsibility from design + engineering to fabrication + installation
- Lightweight - typically less than 5 lbs/ft² (24.41 kg/m²)
- Perfect for custom and unique designs for toplighting applications
- Can support light fixtures, sprinkler systems, and suspended artwork

Dunbar High School | Washington, DC | Perkins Eastman + Moody Nolan (below)
Receive assistance throughout the design phases including complete structural calculations from the curb up accompanied by stamped drawings. Specialty areas include snow and drift loads as well as blast and windborne debris protection.

CNC machining centers offer high tolerances (.001/meter) for structural components that fully integrate with panel and system. From precision milling to certified welding + corrosion resistant finishing, Structures Unlimited, Inc. does it all.

Elaborate the hassle of coordinating multiple trades by working with one sub-contractor who does it all. Enjoy the time savings offered by using a factory pre-engineered, pre-finished structural aluminum system with Kalwall.
Experience the world’s most advanced daylighting systems

Benenden Hospital | Cranbrook, Kent, UK | CA Vaughan Blundell + SR SArchitects Ltd

Kalwall Corporation is continually engaged in research to improve our products. Therefore, the material in this brochure is descriptive in nature and does not constitute a warranty, either express or implied. Please contact us for a copy of the warranty that is given with the sale of our products. Kalwall, Kalcurve, Skyroof, and Geo-Roof are registered trademarks. Verti-Kal, Clamp-tite, and Museum-Quality Daylighting are trademarks of the Kalwall Corporation. Clearspan is a trademark of Structures Unlimited, Inc. Lumira is a registered trademark of Cabot Corporation. 02 | 7 | 20 ©2020 Kalwall Corporation