Custom Daylighting Structures

ENLIGHTENED LIVING

WASCOSKYLIGHTS.COM

Since 1935

WASCO SKYLIGHTS

WASCOSKYLIGHTS.COM
Wasco Structural Skylights

Wasco's line of Structural Skylighting Systems represents the industry's most versatile range of custom daylighting solutions for commercial and residential applications both large and small. When you need true custom flexibility, top quality construction, fast turnaround, long-lasting beauty, and trouble-free installation, Wasco always delivers – working closely with you to help solve problems, add aesthetic value, and make your daylighting design a stunning reality.

Wasco's metal-framed skylight structures offer virtually unlimited design possibilities for a fully customized configuration. Our Classic and Pinnacle framing systems support spans of up to 40’ wide and unlimited lengths. Available with a wide choice of high performance glazing and finish options.
Glazing & Finishing

Glazing Options

Our metal framed custom skylighting structures are available with a virtually unlimited range of glazing options to optimize your daylighting design goals with regard to thermal performance, solar heat gain, lighting quality, impact resistance, structural requirements, aesthetics and comfort.

Our broad range of glazing choices includes, but is not limited to:

**Glass** – Typical glazing is insulated glass comprised of a tempered outboard lite and an annealed or heat strengthened laminated safety glass inboard lite. Custom configuration available.

**Dynamic Glazing** – Wasco’s Dynamic Glazing Series includes:
- Electronically Tintable SageGlass
- BIPV
- Translucent Insulated Glass
- Translucent Insulated Glass with Lumira® Aerogel

**Polycarbonate** – Standard glazing of 25mm multiwall polycarbonate panels in Opal, Opal IR, Clear or Bronze. Lumira® aerogel filled panels are available for greater thermal performance. Other colors and panel thicknesses are available, contact your local sales representative for more information.

**Hurricane Resistant** – Wasco Hurricane Rated glazing provides superior safety and security that meets Dade County HVHZ, IBC/IRC and other stringent state building codes for skylights installed in Wind Zone 3 coastal applications. Available in Pinnacle HU framing systems with 3.5” or 6” aluminum rafters. Tested to meet 80 psf design pressure, and small and large missile impact. Our Classic model CPY-FBC is Florida Product Approved / Non-Impact Zones. Available in a wide range of configurations, as well as our Low Profile system.

Finish Options

Wasco skylight structures are available in a broad range of colors and finishes including copper cladding:
- Mill (Standard)
- Anodized – Clear, Bronze (Dark, Medium or Light)
- Kynar (Various colors)
- Baked Enamel (Various colors)
The Pinnacle of Design Flexibility

For Spectacular Large-Scale Custom Structures Spanning up to 40', at Any Pitch You Desire Between 15° and 60°.

With its variable-pitch hinge design, the Pinnacle Systems offer you the versatility of a custom configured structural skylight system with the reliability and cost savings of standardized engineering, construction and installation. Fast on-site assembly and installation.

- Built to order from stock for shorter lead times
- Fewer parts, faster on-site assembly
- Narrow profiles provide clean lines
- Larger span capability
- Available in Hurricane Resistant

Quicker Installation
Components always assemble the same consistent way. Sills encompass the entire perimeter so installers rely less on sealants.

Leak-Resistant
Continuous sill enclosure around skylight perimeter helps reduce air infiltration through weep holes and effectively guards against water intrusion. Thermally-enhanced construction.

Concealed Fasteners
Through bolt fastening system further eases installation, providing a clean, aesthetically pleasing look on both the interior and exterior.

<table>
<thead>
<tr>
<th>Pinnacle Model</th>
<th>Supports Spans Up To*</th>
<th>Aluminum Rafter Tube Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>14' Wide</td>
<td>3&quot;</td>
</tr>
<tr>
<td>350</td>
<td>18' Wide</td>
<td>3.5&quot;</td>
</tr>
<tr>
<td>600</td>
<td>30' Wide</td>
<td>6&quot;</td>
</tr>
<tr>
<td>900</td>
<td>40' Wide</td>
<td>9&quot;</td>
</tr>
<tr>
<td>HU (Hurricane Rated)</td>
<td>25' Wide</td>
<td>3.5&quot; or 6&quot;</td>
</tr>
</tbody>
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*Approximate span widths depending on configuration and load. Contact your local sales representative for more information.

HU tested to meet 80 psf design pressure, and small and large missile impact. Available with laminated or insulated glazing.

Pinnacle Standard Configurations
Available in unlimited lengths and custom widths.
A Classic Never Goes Out of Style

Our Light-Framed, Economical Classic Skylights for Both Pitched and Flat Roof Applications.

Wasco’s light-framed Classic Skylighting System minimizes framing while maximizing daylighting. One of the industry’s first light-framed systems capable of utilizing today’s high performance glazings, the fully thermalized Wasco Classic structural system offers architects versatile options for dramatic, cost-effective designs.

Wasco’s Classic System can ship preassembled and preglazed. Classic Series skylights are fully tested for Air Infiltration and Water Penetration per ASTM E-283 and ASTM E-331. The dry glazed, OSHA compliant, fully guttered and weeped system is used with high performance glass or multiwall polycarbonate.

- Components are prefabricated for easy installation on site
- Designed for pyramids up to 8’ wide and double pitch or
- Extended pyramid up to 5’ or 6’ wide by unlimited length*
- Versatile curb-mount design using site-built curbs for both pitched and flat roof applications
- Standard pitches available include 5:12, 7:12 and 12:12
- Concealed fasteners and narrow framing members for clean, aesthetically pleasing appearance
- Integral condensation gutters drain water to the exterior for full moisture control
- Urethane thermal break incorporated around perimeter to minimize condensation on aluminum components
- One of the industry’s first light-framed skylighting systems capable of utilizing today’s high performance glazings

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Supports Spans Up To</th>
<th>Aluminum Rafter Tube Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Square or Octagonal Pyramid</td>
<td>8’ Wide</td>
<td>0.375”</td>
</tr>
<tr>
<td>Extended Pyramid</td>
<td>6’ Wide Unlimited Length</td>
<td>0.375”</td>
</tr>
<tr>
<td>Double Pitch</td>
<td>5’ Wide Unlimited Length</td>
<td>0.375”</td>
</tr>
<tr>
<td>CPY-FBC (FBC Approved Square Pyramid)</td>
<td>6’ 10” Wide</td>
<td>0.375”</td>
</tr>
</tbody>
</table>

*Approximate span widths depending on configuration and load. Contact your local sales representative for more information.

CPY-FBC tested to meet 80 psf design pressure.

Classic Standard Configurations

Available in unlimited lengths and custom widths.

- PYRAMID
- OCTAGONAL
- EXTENDED PYRAMID
- DOUBLE PITCH

Classic square pyramid with optional copper cladding.
Low Profile System

Create Dramatic Daylighting

Non-Structural Skylight on Pitched Roofs Where Structural Support Is Present.

Available with a wide choice of high performance glazing and finish options, Wasco’s low profile skylight structures offer virtually unlimited design possibilities for a fully customized configuration.

Developed for pitched roof applications, the Wasco Low Profile System is an aluminum-frame glass system that lays over roof rafters, creating a narrow line frame for a clean and appealing look on the roof line. Available in curb mount or self-flashing deck mount, the system accommodates multiple panels. Thermally-broken aluminum frame ships assembled and ready for field glazing.

Typical glazing a 1½" high performance low-e laminated glass. Also available with Hurricane Rated glass or any of our Dynamic Glazing Series glazing options.

- For pitched roof applications where structural support by others is provided below the skylight rafters
- Structural support is required under rafters and purlins
- Prefabricated sections are simple to assemble and glaze
- Available in self-flash style and curb mount for unlimited pitched applications
- Minimum recommended roof pitch is 3:12

Canopies

Make a Grand Entrance

Wasco Walkway & Canopy Systems Provide Shelter and a Beautiful Accent to Your Design.

Versatile high performance glazing options include glass, acrylic, polycarbonate and structured translucent sheeting.

- Quick on-site assembly and installation of custom structural components
- Flexible framing system with clean lines
- Leak-resistant construction
- Concealed fasteners for easy installation and an aesthetically pleasing look inside and out
- Scratch-resistant baked enamel can be custom-matched to any color requirement; anodized finishes also available
Wall to Wall Bright Ideas

LumiWall

40mm Multiwall Polycarbonate Vertical Translucent Panel System.

LumiWall is constructed with fully fabricated, lightweight, interlocking tongue and groove multiwall polycarbonate panels. It is a dry glaze system and offers optional polyurethane thermal breaks for improved thermal performance. The system has large span capabilities, is easily installed by commercial contractors, and requires no UV maintenance. LumiWall delivers superior light transmission, high impact resistance, and low NFRC U-Values, all at an affordable price. Available with a wide range of color choices.

- Dry glaze system – no sealants required on panels
- Fully fabricated, lightweight interlocking wall panel system with large span capabilities
- Superior U-Value, light transmission, SHGC, impact resistance*
- System depth: 2/" panel frame, 4" subsill
- Standard subsill for trouble free installation
- Sloped sill nose with recessed weeps for maximum drainage
- Available with or without polyurethane thermal breaks for improved thermal performance
- No exposed fasteners
- NFRC tested, 10 year warranty

FPV

25mm Multiwall Polycarbonate Vertical Translucent Curtain Wall System.

FPV (Flat Panel Vertical) is engineered to create a translucent glazing system utilizing 25mm polycarbonate panels. It is easy to install by glazing contractors and is capable of self-supporting heights of 14’. The panels have an option of being filled with Lumira® aerogel for enhanced thermal efficiency. The polycarbonate panels require no UV maintenance and have high impact resistance. The system is NFRC tested.

- Dry glaze system – no sealants required on the panels
- Available in large panel sizes
- Fully engineered and fabricated designed for L/175 deflection
- Superior U-Value, light transmission, SHGC and impact resistance
- Superior Flame Spread and Smoke Development values
- No exposed fasteners
- NFRC tested, 10 year warranty

*Compared to leading competitor. **Clear IR, Opal and Opal IR glazing standard. Other glazing options available, contact your local sales representative for more information.
SAFETY CONSIDERATIONS
Wasco skylights are designed to withstand normal elements of the weather. They are not designed to withstand human impact or falling objects. These skylights should not be walked upon under any circumstances. The owner or designer should restrict access only to authorized personnel who have been adequately cautioned as to the location of the skylights and informed of the warning above, or said owner should provide protective guard rails or screens around the skylights.

Daylight & Energy Analysis

Modeling tools to capture best energy benefits and optimum results.
Wasco offers daylighting and energy modeling services to aid in the prediction of the total amount and distribution of incident light in an environment due to the introduction of natural light. This analysis can also aid in design of a day lit space.

- Consider overall costs for best results
- Energy Analysis will predict the energy losses and savings in a given building due to the addition of skylights
- Skylights in conjunction with lighting controls is the key to maximize your energy savings
- Tools available include AGI32, SkyCalc, Jupiter, and eQuest

Translucent Canopies (10 73 16)
- 20mm Standing Seam Polycarbonate Panel/Batten Assembly
- UV Stable, High Impact Resistance
- Long-Span Aluminum Modular Panel System
- Fixed Sill, Adjustable Sill or Skin Systems
- Simple Installation

Unit Skylights (08 62 00)
- Energy Efficient EcoSky3 Model is IECC 2012 Compliant in All Climate Zones, NFRC Certified
- Domed, Pyramid, Barrel Vault, Circular or Cluster Configurations with Plastic or Glass Glazing
- Blast Resistant, Hurricane Rated, Prismatic, Fall Protection, and ESFR Rated Smoke Vents
- Available with Lumira® Aerogel Panels
- Prefabricated Curbs and Safety Screens Available

Translucent Daylighting Model  Completed Project