

# ENLIGHTENED LIVING



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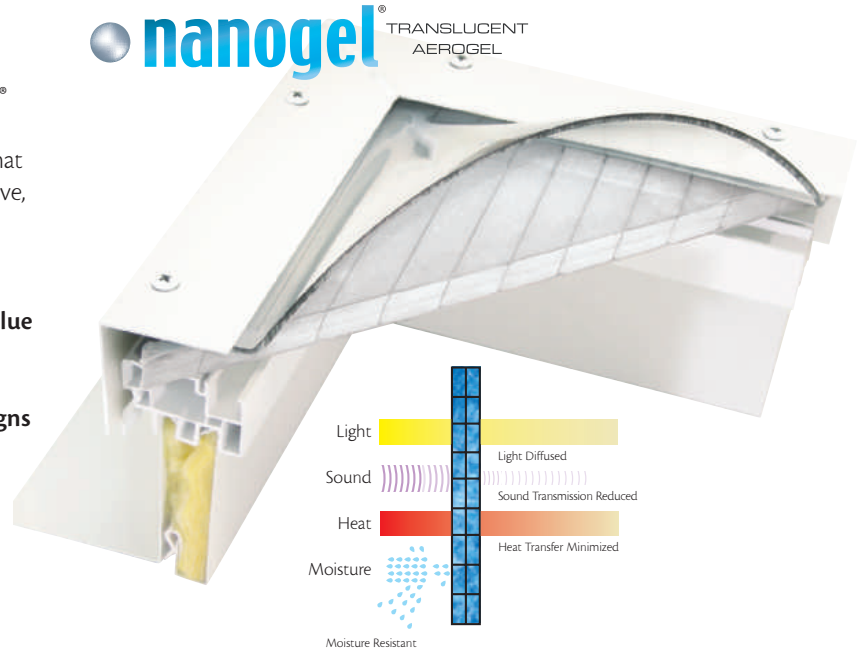
## UNIT SKYLIGHTS

# UNIT SKYLIGHTS WITH NANOGEL®

## UP TO 6x THE THERMAL VALUE OF COMPARABLE SKYLIGHTS

Nanogel® is a major breakthrough in insulating technology. Adapting nano technology in Wasco skylights provides practical everyday solutions in fenestration products. Nanogel® is able to provide a tremendous thermal insulator that is also environmentally sound. Nanogel® works so well because of what it does on a nano-scale. Nanogel® permanently stops connective, conductive, thermal transfer without an appreciable drop in light transmission.

- Superior thermal performance - up to 6x the thermal value of typical double dome unit skylights
- Glare-free, full spectrum diffused light
- “Green” product that’s perfect for Cradle to Cradle designs
- Completely moisture resistant
- Will not support growth of mold, mildew, or fungus
- Reduces sound transmission
- UV stable
- Performance will not deteriorate over time



## THE BENEFITS OF DIFFUSED DAYLIGHTING



Increasing natural daylighting in buildings has long been a goal in architectural design. Studies have shown that people thrive in natural lighting; they’re healthier, happier and more productive. Also, increased daylighting designs are proven to have positive effects such as:

- Increased productivity
- Increase in sales up to 40%
- Shown to increase learning rates (20-26%)
- Decreases absenteeism
- Promotes a healthier, happier work and educational environment

## PERFORMANCE DATA ON WASCO® SKYLIGHTS WITH NANOGEL®

### THERMAL PERFORMANCE OF UNIT SKYLIGHTS

| Polycarbonate Thickness | Light Transmission | Solar Heat Gain Coefficient | U    | R   |
|-------------------------|--------------------|-----------------------------|------|-----|
| Clear/Nano 16mm         | 48                 | 0.57                        | 0.22 | 4.6 |

### SOUND TRANSMISSION

*Unit Skylights - 40% Improvement in Sound Reduction*

| Skylight Type                        | Sound Transmission Coefficient |
|--------------------------------------|--------------------------------|
| Standard Unit Skylight               | 24                             |
| Unit Skylight Insulated with Nanogel | 34                             |

A GREEN PRODUCT



THERMALIZED® SOLAR-ENERGY SKYDOMES®



Wasco curb-mount or deck-mount Thermalized® Solar-Energy Skydomes® offer outstanding lighting and thermal performance in a versatile range of dome styles.

NANOGEL® IS AVAILABLE IN THERMALIZED SOLAR ENERGY SKYDOMES

**Nanogel® Thermalized Solar Energy Skydomes**

Wasco curb-mount and deck-mount Thermalized Solar Energy Skydomes offer excellent lighting and thermal performance for both new construction and replacement applications.

- Available in Sentinel Series Fall Protection Units
- Designed to work with any roofing material

**Nanogel®**

**CA-NT Thermal Deck Mount**

| Model | R.O.              |
|-------|-------------------|
| 2852  | 22 1/4" x 46 1/4" |
| 3636  | 30 1/4" x 30 1/4" |
| 4242  | 37" x 37"         |
| 5252  | 46 1/4" x 46 1/4" |
| 5296  | 46 1/4" x 89 1/2" |

**Nanogel®**

**CS-NT Thermal Curb Mount**

| Model | O.D. of Curb      |
|-------|-------------------|
| 2852  | 25 1/4" x 49 1/4" |
| 3636  | 33 1/4" x 33 1/4" |
| 4242  | 40" x 40"         |
| 5252  | 49 1/4" x 49 1/4" |
| 5296  | 49 1/4" x 92 1/2" |

# UNIT SKYLIGHTS

## WASCO SKYDOMES®



These 6", 9" or 12" high deck-mount circular skylights feature a double-wall, insulated, aluminum curb and integral condensation gutter. Glazing is available in thermoformed acrylic, polycarbonate (limited sizes) or impact modified double domes. Curb-mount circular unit also available. (Add 3" to curb RO for OD curb dimension.)

### CIRCULAR SKYDOME STANDARD SIZES

| Model | Rough Opening |
|-------|---------------|
| C-30  | 24"           |
| C-36  | 31"           |
| C-48  | 43"           |
| C-60  | 54"           |
| C-72  | 67"           |
| C-84  | 79"           |
| C-96  | 91"           |

### THERMALIZED DOMED & PYRAMID SKYDOME STANDARD SIZES

| Model                     | Rough Opening     |
|---------------------------|-------------------|
| CS1/CSP1 & CA1/CAP1-2424  | 19" x 19"         |
| CS1/CSP1 & CA1/CAP1-2828  | 22 1/4" x 22 1/4" |
| CS1/CSP1 & CA1/CAP1-2836  | 22 1/4" x 30 1/4" |
| CS1/CSP1 & CA1/CAP1-2852  | 22 1/4" x 46 1/4" |
| CS1/CSP1 & CA1/CAP1-3636  | 30 1/4" x 30 1/4" |
| CS1/CSP1- & CA1/CAP1-3652 | 30 1/4" x 46 1/4" |
| CS1/CSP1 & CA1/CAP1-3676  | 30 1/4" x 69 1/2" |
| CS1/CSP1 & CA1/CAP1-4242  | 37" x 37"         |
| CS1/CSP1 & CA1/CAP1-4280  | 37" x 75"         |
| CS1/CSP1 & CA1/CAP1-5252  | 46 1/4" x 46 1/4" |
| CS1/CSP1 & CA1/CAP1-5276  | 46 1/4" x 69 1/2" |
| CS1/CSP1 & CA1/CAP1-5296  | 46 1/4" x 89 1/2" |
| CS1/CSP1 & CA1/CAP1-6060  | 55" x 55"         |
| CS1/CSP1 & CA1/CAP1-6476  | 57 1/2" x 69 1/2" |
| CS1/CSP1 & CA1/CAP1-6496  | 57 1/2" x 89 1/2" |
| CS1/CSP1 & CA1/CAP1-7272  | 68" x 68"         |
| CS1/CSP1 & CA1/CAP1-8080  | 75" x 75"         |
| CS1/CSP1 & CA1/CAP1-9898  | 92 1/2" x 92 1/2" |

Add 3" to rough opening for CS(P) curb mount units for O.D. of curb.

Available in custom sizes.

## THERMALIZED SENTINEL FALL PROTECTION UNITS

### STANDARD SIZES

| Model                | Rough Opening     |
|----------------------|-------------------|
| SS/SSP & SA/SAP-2424 | 19" x 19"         |
| SS/SSP & SA/SAP-2828 | 22 1/4" x 22 1/4" |
| SS/SSP & SA/SAP-2836 | 22 1/4" x 30 1/4" |
| SS/SSP & SA/SAP-2852 | 22 1/4" x 46 1/4" |
| SS/SSP & SA/SAP-3636 | 30 1/4" x 30 1/4" |
| SS/SSP & SA/SAP-3652 | 30 1/4" x 46 1/4" |
| SS/SSP & SA/SAP-3676 | 30 1/4" x 69 1/2" |
| SS/SSP & SA/SAP-4242 | 37" x 37"         |
| SS/SSP & SA/SAP-4280 | 37" x 75"         |
| SS/SSP & SA/SAP-5252 | 46 1/4" x 16 1/4" |
| SS/SSP & SA/SAP-5276 | 46 1/4" x 69 1/2" |
| SS/SSP & SA/SAP-5296 | 46 1/4" x 86 1/2" |
| SS/SSP & SA/SAP-6060 | 55" x 55"         |
| SS/SSP & SA/SAP-6476 | 57 1/2" x 69 1/2" |
| SS/SSP & SA/SAP-6496 | 57 1/2" x 89 1/2" |
| SS/SSP & SA/SAP-7272 | 68" x 68"         |
| SS/SSP & SA/SAP-8080 | 75" x 75"         |
| SS/SSP & SA/SAP-9898 | 92 1/2" x 92 1/2" |

Add 3" to rough opening for SS(P) curb mount units for O.D. of curb.

Available in custom sizes.



### Wasco Fall Protection units comply with OSHA Fall Protection Regulations

- Engineered to resist a 775 ft. lb. impact without the use of metal grids or screens.
- Available in both curb-mount (SS) and deck-mount (SA) configurations.
- Provided with impact modified double domes or pyramid domes.

## WASCO LUMI-DUCT SKYDOME™ LIGHT WELL SYSTEMS

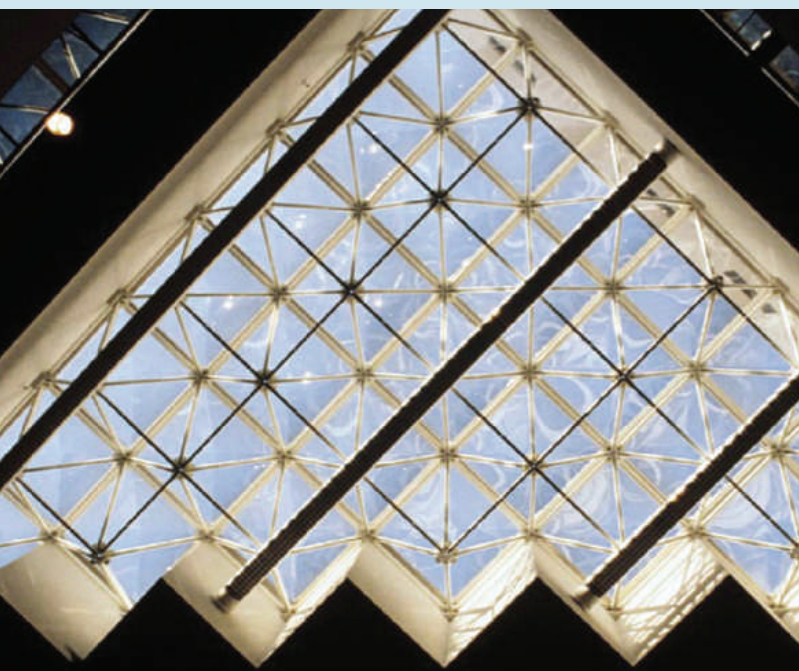
**Wasco's energy efficient Lumi-Duct Skydome™ light-well systems reduce heating and cooling loads while maximizing the benefits of daylighting.**

- Reflects 89% of light transmission without loss of color (100 CRI full spectrum).
- Easy to install
- Increased daylighting improves student performance, higher profits for store owners and increased worker productivity.
- Appropriate for all types of high ceiling/drop ceiling applications.
- Self-flashing, thermally broken, aluminum frame roof dome that accommodates both flat and pitched roofs.
- Double-glazed dome can reduce electrical lighting needs by up to 90% during daylight hours.
- Fits 2' x 2' or 4' x 4' T-bar ceiling grids with custom sizes and lengths up to 10 feet.

Standard finishes include anodized and baked enamel. The Lumi-Duct Skydome™ can also be utilized in a hybrid system combining both natural and artificial light for large installations. Available with Fall protection systems.

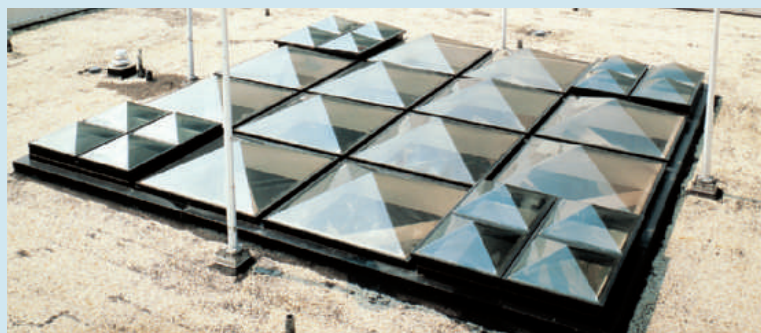


## WASCO CLUSTER SYSTEM



**Our Cluster Systems allow for the creation of dramatic skylighting over large enclosures, utilizing site-built structural grid supports on flat roof applications.**

- An Extruded Gutter configuration is available for applications in which extra water carrying capacity is required or if continuous vaults are to be joined.
- Cluster and Extruded Gutter Systems require a minimum of 1/4" per foot slope to properly drain water.
- A dramatic accent above stairs or a rugged canopy for a covered walkway



# UNIT SKYLIGHTS

## CONTINUOUS VAULT SYSTEMS

Wasco's Continuous Vault system is designed for unlimited applications utilizing site-built curbs on both flat and pitched roofs.

- Ribs may be spaced at 2' max o.c. and still maintain a 40psf live load.
- Vaults are glazed with your choice of acrylic or polycarbonate glazing in clear, tinted and thermal translucent options.



## LOW-RISE BARREL VAULT SKYLIGHTS

### Models BV, BVV, SBV

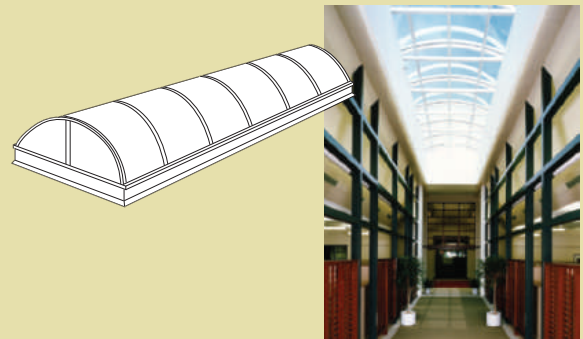
Available in widths of 3' to 10' with vertical ends, or 3' to 6' with formed ends. Structural models (SBV) available in widths from 10' to 20'. Unlimited lengths.



## HALF-ROUND UNITS

### Models HR, SHR

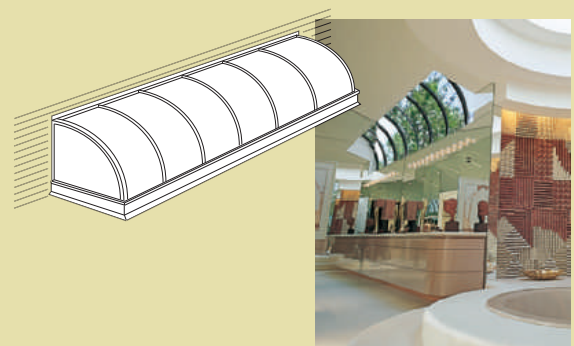
Half-round high-rise vaults are available in widths of 4' to 10' (vertical ends only). Structural models (SHR) available in widths from 10' to 20'. Unlimited lengths.



## QUARTER-ROUND VAULTS

### Models QR, SQR

Available in 2' to 5' widths, or structural unit widths of 5' to 10'. Unlimited lengths.





## WASCO'S TRANSLUCENT POLYCARBONATE DAYLIGHTING SYSTEM

**Easy to install, modular translucent Horizon skylight system provides high quality diffused daylighting.**

Wasco's cellular, polycarbonate skylight design is a standing seam, dry glazed, daylighting system with proven energy-saving solar and thermal properties. The translucent Horizon System is constructed of lightweight, impact resistant, UV protected panels with snap-on battens and structural clips that are easy to install.

- Reduces labor and material costs for skylight and canopy applications in both new construction and renovation projects
- Excellent UV protection
- **Available with Nanogel® fill for up to 6x the thermal performance.**
- Available with or without structural framing.
- Capable of a low rise radius for spans from 8' to substantially larger spans
- 10 year warranty

20mm 6-Wall Polycarbonate glazing is offered in standard translucent clear, opal, and bronze tints. For optional tints contact Wasco Products.



# UNIT SKYLIGHTS



## 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.



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