

SUNWELD™ PLUS

Conventional Skylight BY **VELUX®**
Commercial

Dynamic Dome Skylight



Overview

Available in 18 standard sizes, the Dynamic Dome is an innovative product that balances the structural demands of industry professionals with an architecturally progressive design. Engineered to closely match the angles of the sun during low-light periods to harvest more sunlight to transfer indoors, the Dynamic Dome offers uncompromising strength and a visually stunning design.

Features and Benefits

- » Light Harvesting
 - Taller dome and angled glazing design engineered to harvest more daylight by maximizing low-angle sunlight
 - Smooth, clear outer dome delivers 20% more daylight than a prismatic outer dome
 - White prismatic inner dome provides 100% light diffusion
- » Dome Strength
 - Dome profile designed to maximize strength and improve impact resistance
 - Repeating series of ridges and ribs provide superior structural strength
- » Innovative frame
 - One-piece inner frame evacuates condensation to the exterior
 - 50-year silicone sealant
 - 100% thermally broken with active condensation management system
 - Strong, easy-to-carry frame profile designed for ease of installation
 - Dry installation—no curb tape adhesives needed

Installation

- » For field-fabricated curbs or existing curbs, install fasteners through pre-slotted holes on skylight frame.
- » Flash field-fabricated and factory curbs into a roof system using pre-formed TPO and PVC curb flashing or EPDM Fully Pressure-Sensitive curb flashing

Review Carlisle specifications and details for complete installation information.

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Options

Mounting	Curb-Mounted Self-Flashed
Curbs - 9", 12", 16", 18" (aluminum or steel) Curbs - 18" (steel only)	Steel double wall insulation (18GA or 14GA) Steel single wall insulation (18GA or 14GA) Aluminum double wall insulation Aluminum single wall insulation
Glazing Material	LuxGuard Plus (polycarbonate; HVHZ approved) LuxGuard (polycarbonate) Impact Modified Acrylic
Dome Configurations	Single – LuxGuard Double – LuxGuard Plus, LuxGuard, Impact Modified Acrylic Triple – LuxGuard (polycarbonate)
Frame Finishes	Mill finished Gray painted
Optional Accessories	Interior safety screens Interior security bars Exterior safety screens

Warranty

100% Impact Modified Acrylic (IMA)	Polycarbonate LuxGuard & LuxGuard Plus
10-Year Leak-Free	20-Year Leak-Free/15-Year Hail Breakage*

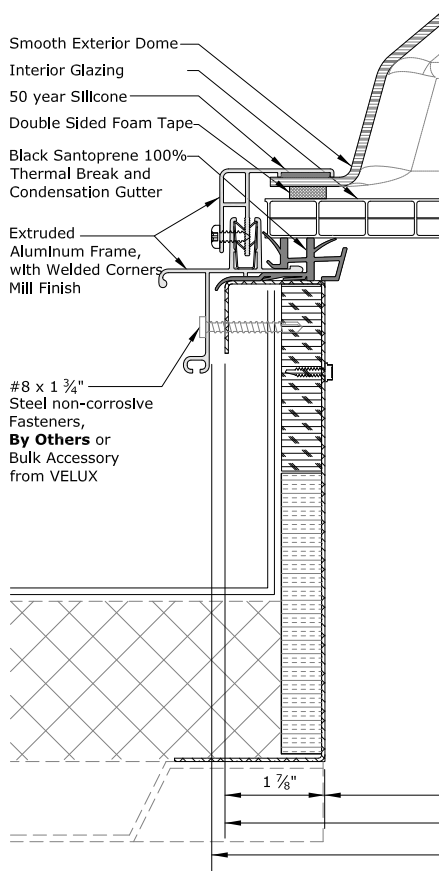
*Up to 2" in diameter

Dynamic Dome Sizes





Outside Curb Size	Maximum Skylight Clearance	Outside Curb Size	Maximum Skylight Clearance
27" x 51"	28 ¼" x 52 ¼"	51" x 51"	52 ¼" x 52 ¼"
27" x 99"	28 ¼" x 100 ¼"	51" x 63"	52 ¼" x 64 ¼"
27" x 123"	28 ¼" x 124 ¼"	51" x 75"	52 ¼" x 76 ¼"
39" x 39"	40 ¼" x 40 ¼"	51" x 99"	52 ¼" x 100 ¼"
39" x 63"	40 ¼" x 64 ¼"	51" x 123"	52 ¼" x 124 ¼"
39" x 75"	40 ¼" x 76 ¼"	63" x 63"	64 ¼" x 64 ¼"
39" x 99"	40 ¼" x 100 ¼"	63" x 75"	64 ¼" x 76 ¼"
39" x 123"	40 ¼" x 124 ¼"	63" x 99"	64 ¼" x 100 ¼"
		63" x 123"	64 ¼" x 124 ¼"
		75" x 75"	76 ¼" x 76 ¼"

Precautions

In addition to selecting the correct skylight for the application, it is recommended to consider protecting all skylight openings and skylights with one or more fall protection accessories. It is also recommended that the building owner or manager restrict roof access only to personnel who have been sufficiently cautioned as to the location of the skylights and warned not to sit, step, or walk on the skylights. The building owner or manager should provide fall protection around the skylight in accordance with OSHA regulations.



Standard Curb Types

- | | | |
|-------------------------------|---|---------------------------------|
| <input type="checkbox"/> CCA3 |  | Steel, Double Wall Insulated |
| | <input type="checkbox"/> 18 Ga <input type="checkbox"/> 14 Ga | |
| <input type="checkbox"/> CCA6 |  | Steel, Single Wall Un-Insulated |
| | <input type="checkbox"/> 18 Ga <input type="checkbox"/> 14 Ga | |
| <input type="checkbox"/> CCAM |  | Aluminum, Double Wall Insulated |
| <input type="checkbox"/> CCAN |  | Aluminum, Single Wall Insulated |

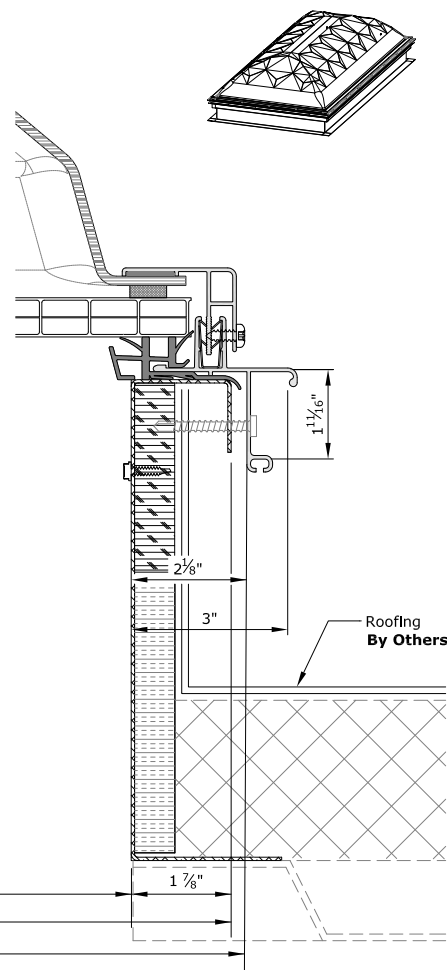
Standard Curb Heights

- | |
|---|
| <input type="checkbox"/> 9" Curb Height |
| <input type="checkbox"/> 12" Curb Height |
| <input type="checkbox"/> 16" Curb Height |
| <input type="checkbox"/> 18" Curb Height (CCA3 & CCA6 only) |

Daylight Opening Dimension

Outside Curb Dimension

Maximum Skylight Clearance



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Most Common Dome Configurations (Other glazing configurations and performance values are available)

Glazing Material	Testing/ Certifications	Dome Configurations	Luminous Transmittance ASTM D1003	U-Factor NFRC 100	SHGC NFRC 200	Haze ASTM D1003
LuxGuard Plus (polycarbonate) Standard dome configuration - 0.150" clear outer dome over 0.118" white prismatic inner dome.*	OSHA NFRC Hallmark-Air water and structural certifications FM certifications High Velocity Hurricane Zone (HVHZ) approved	Double	61.1%	0.71	0.46	100%
LuxGuard (polycarbonate) Standard dome configuration - 0.118" clear outer dome over 0.118" white prismatic inner dome.*	OSHA NFRC Hallmark-Air water and structural certifications FM certifications	Double	61.9%	0.71	0.46	100%
		Triple	NR	0.53	0.43	NR
Impact Modified Acrylic (IMA) Standard dome configuration - 0.150" clear outer dome over 0.118" white prismatic inner dome.*	OSHA NFRC Hallmark-Air water and structural certifications	Double	68.9%	0.71	0.46	100%

*6' x 6' sizes are manufactured with a smooth inner dome and have slightly different performance values