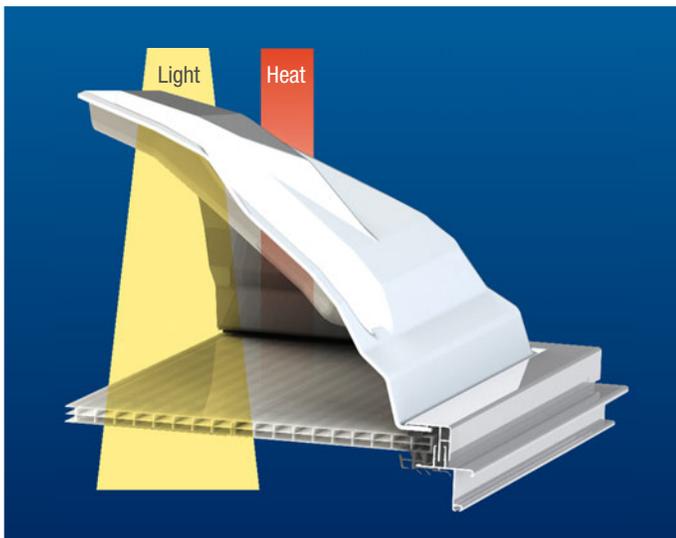


# SUNWELD™ PLUS

Conventional Skylight BY **VELUX®**  
Commercial

## Energy Series Dynamic Dome Skylight



### Overview

Available in 18 standard sizes, the Energy Series Dynamic Dome provides a revolutionary dome design along with superior energy efficiency. Engineered to closely match the angles of the sun during low-light periods to harvest more sunlight to transfer indoors, the Energy Series Dynamic Dome also provides an enhanced thermal barrier against exterior elements.

### Features and Benefits

- » Increased energy efficiency options
  - Multi-wall polycarbonate panels with and without Lumira Aerogel to provide the best protection against heat loss (ideal for northern climate zones)
  - Double domes with infrared coatings to provide the best protection against heat gain (ideal for southern climate zones)
  - Triple domes with infrared coatings provide the best protection against heat gain and improved heat loss protection (ideal for all climate zones that require more stringent energy performance)
- » Same revolutionary design benefits as the Dynamic Dome
  - 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
  - Repeating series of ridges and ribs provide superior structural strength
  - One-piece inner frame evacuates condensation to the exterior
  - 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 provided 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-Flushed
Curbs - 9", 12", 16", 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) 100% Impact Modified Acrylic (IMA)
Dome Configurations	Single – LuxGuard Double – LuxGuard Plus, LuxGuard, Impact Modified Acrylic Triple – LuxGuard (polycarbonate)
Frame Finishes	Mill finished Gray painted
Energy Efficient Glazings	Multi-wall polycarbonate panels with and without Lumira Aerogel to reduce heat loss Double domes with infrared (IR) coatings to reduce heat gain Triple domes with IR coatings to reduce heat loss and heat gain
Optional Accessories	Interior safety screens Interior security bars Exterior safety screens

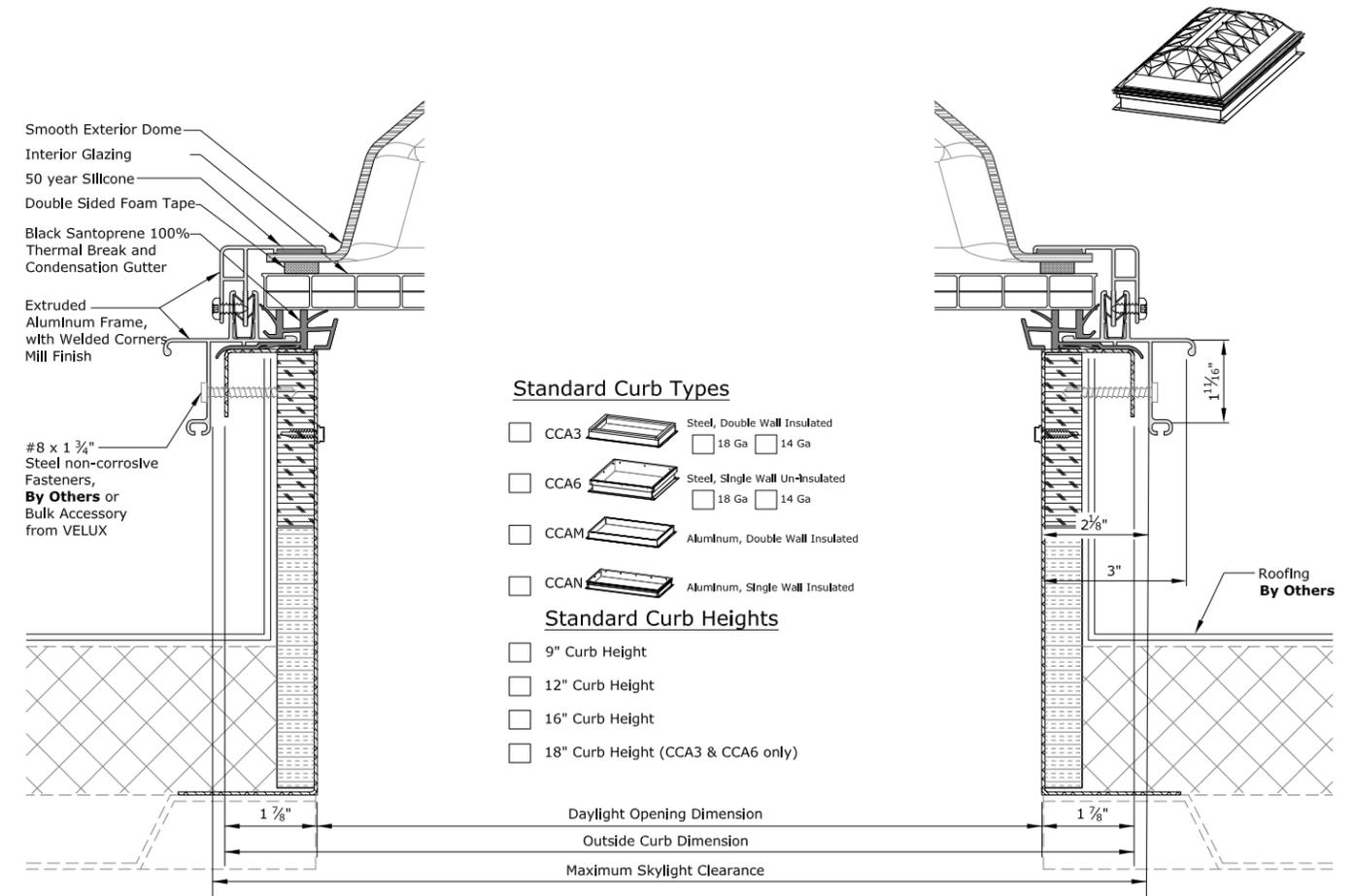
Warranty	
100% Impact Modified Acrylic (IMA)	Polycarbonate LuxGuard & LuxGuard Plus
10-Year Leak-Free	20-Year Leak-Free/15-Year Hail Breakage*

\*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.



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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
<b>IR blocking acrylic over polycarbonate</b> Standard dome configuration—0.118" IR-blocking diffuse acrylic outer dome over 0.118" clear polycarbonate prismatic inner dome. Middle dome is polycarbonate.*	OSHA NFRC Hallmark-Air water and structural certifications	Double	36%	0.71	0.33	100%
		Triple	31.4%	0.57	0.32	100%
<b>IR blocking acrylic over Lumira aerogel</b> Standard dome configuration—0.118" IR-blocking diffuse acrylic outer dome over specialty multi-wall polycarbonate with Lumira aerogel	OSHA NFRC Hallmark-Air water and structural certifications	Double	NR	0.34	0.28	100%
<b>LuxGuard (polycarbonate) with Lumira aerogel</b> Standard dome configuration—0.118" clear polycarbonate outer dome over specialty multi-wall polycarbonate with Lumira aerogel.	OSHA NFRC Hallmark-Air water and structural certifications	Double	43.2%	0.34	0.44	100%
<b>LuxGuard (polycarbonate) over specialty multi-wall</b> Standard dome configuration—0.118" clear polycarbonate outer dome over specialty multi-wall polycarbonate.	OSHA NFRC Hallmark-Air water and structural certifications	Double	63.4%	0.43	0.49	27%

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