

Traditional Dome Unit Skylights

MODELS: CMT, CLC, CEC, CWC, DMT

VELUX® Commercial traditional dome unit skylights offer a timeless, classic look with modern daylighting performance and thermal efficiency. They provide a smooth, low-profile design and clean aesthetic, making them ideal for visible roof applications.

Traditional dome unit skylights feature an encapsulated inner frame design with a factory-applied 100% thermal break and bonus moisture management system to effectively evacuate any condensation to the exterior through integrated weep holes.

Curb-mount units are manufactured to fit outside curb sizes to the nearest 1/4" with a 1/2" clearance on all sides, making it an ideal retrofit solution.

Traditional dome unit skylights are ideal for education, healthcare, office, retail, and hospitality applications.

Features

- Available in standard and custom sizes up to 102" x 150" (OCD)
- Glazing options tailored to regional and code-driven needs
- 100% thermally broken frame
- Dry installation - no caulk or curb tape needed*
- Single, double and triple-dome configurations
- LuxGuard polycarbonate options
- Fall protection and interior security options
- Competitive Warranty

*Models CMT & DMT only

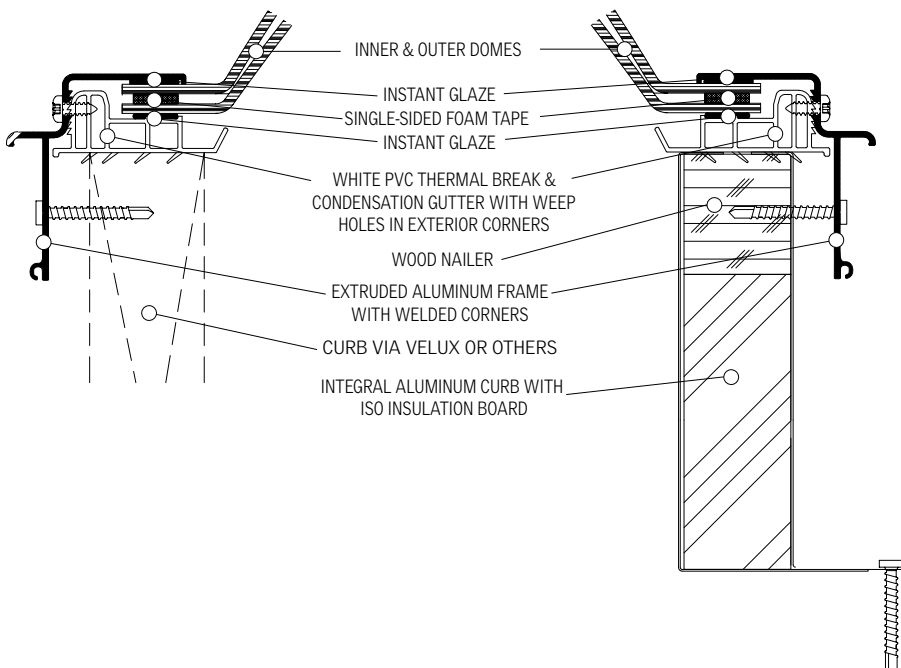


AVAILABLE TESTING & CERTIFICATIONS varies by model

- AAMA Certified
- WDMA Hallmark Certification
- CSA Certified
- ASTM Tested
- C.F.R. Title 24 & Title 29
- NFRC Certified
- IESNA
- NFPA
- Fall Protection Testing

Curb Mount (CMT2 model)

Deck Mount (DMT2 model)



Traditional Dome Unit Skylights

TECHNICAL SPECIFICATIONS



SYSTEM*

Traditional Dome curb or deck mounted fixed unit skylights utilize an extruded aluminum frame counter-flashing with welded corners, a PVC vinyl inner frame allowing condensation drainage, structural sealant, as required to meet installation and performance requirements. Deck-mounted fixed unit skylight includes integral double sided insulated aluminum curb. Traditional dome unit skylights shall be suitable for installation on roof pitches ranging from 0 degrees up to 60 degrees from horizontal.

FRAME*

Aluminum Frame Counter-flashing: Maintenance-free, extruded aluminum, grade 6063-T6, 0.08 inch (2.0 mm) thick with mill or neutral grey powder coat finish. Counter-flashing frames completely welded-in corners and counter flashes curb a minimum of 1.625 inches (41 mm). Provided aluminum frame with at least 0.5 inch (12 mm) continuous ledge on each side of the skylight for ease of handling and installation.

100% Thermally Broken PVC inner-frame for Condensation Drainage: Factory applied white PVC inner-frame assembly providing a thermal break weather seal and drainage for condensation. The PVC inner-frame design allows positive condensation to the exterior of the curb without exposed drainage openings in the exterior aluminum frame that can introduce air infiltration into the skylight. The PVC inner-frame construction consists of coextruded fins allowing for a dry installation of skylight to the curb, eliminating weather seal strips or caulking at the top of the curb.

DOME

Outer Dome: Thermoformed Traditional Dome: Outer dome shall be formed from smooth sheet and not prismatic in order to transmit all incident daylight through outer dome. Outer polycarbonate domes are coated with a UV blocking layer that prevents long-term yellowing, and ensures material strength and performance stability.

Middle Dome: If the outer dome is LuxGuard polycarbonate, the middle dome will also be polycarbonate. If the outer dome is acrylic, the middle dome will be acrylic.

Inner Dome: LuxGuard polycarbonate smooth or prismatic, or acrylic.

GLAZING

LuxGuard & LuxGuard Plus Polycarbonate: Prior to the manufacturing process, polycarbonate sheet thickness is minimum 0.118".

Acrylic: Prior to the manufacturing process, the acrylic sheet thickness is a minimum of 0.080".

**These technical specifications are for primary models CMT/DMT.*

CLEANING & MAINTENANCE

See [Commercial Skylight Cleaning, Maintenance, and Storage](#) document on commercial.veluxusa.com website for complete details.

Clean with a mild soap solution, using a lint free cloth. To remove grease, oil, or tar deposits, use kerosene, followed by a soap solution. Avoid cleaners containing ammonia or alcohol. Do not use scrapers, squeegees or other sharp objects as these may permanently scratch the material.

WARRANTY*

Product	Limited Warranty	Term
Skylights with polycarbonate domes	- Free from manufacturing defects in material and workmanship - Free from cracking due to hail - Free from leaks	15 Years
Acrylic and polycarbonate domes	Against Yellowing Index < 4.0	5 Years
	Against Yellowing Index < 10.00	10 Years
Skylights with acrylic domes	Free from manufacturing defects in material and workmanship	5 years
Aluminum Curbs	Free from manufacturing defects in material and workmanship	5 Years
Steel Curbs	Free from manufacturing defects in material and workmanship	1 Year
	Free from manufacturing defects and deterioration:	
Skylights frame finishes	- Mill finish (standard) 2604 Powder (Polyester) 2605 Powder (FEVE)	15 Years 10 Years 20 Years

See **VELUX LIMITED WARRANTY** document on commercial.veluxusa.com website for full warranty [DETAILS](#).

*This product warranty applies only to the product(s) list on this product data sheet. This product warranty does not cover installation.

Traditional Dome Unit Skylights

THERMAL PERFORMANCE & FALL PROTECTION



THERMAL PERFORMANCE

Product Tested	U-Factor NFRC 100	SHGC NFRC 200	Haze ASTM D1003	VLT ASTM D1003	UV Transmittance ASTM E903
CMT2/DMT2 P1C2 LuxGuard Clear Smooth PC over White Prismatic PC	0.59	0.51	100%	61.9%	Clear: n.r.
CMT2/DMT2 P1P2 LuxGuard Clear Smooth PC over White Smooth PC	0.59	0.52	100%	66.4%	0.1%
CMT2/DMT2 P1H1 LuxGuard Clear Smooth PC over Satin Ice Acrylic	0.58	0.53	100%	71.5%	-
CMT2/DMT2 E2A1 EcoSky Satin Sky 2 Acrylic over Clear Smooth Acrylic	0.61	0.38	99.8%	56.8%	2.3%
CMT2/DMT2 E2A2 EcoSky Satin Sky 2 Acrylic over White Smooth Acrylic	0.61	0.29	100%	34.7%	0.7%
CMT2/DMT2 A1A2 White Smooth Acrylic over White Smooth Acrylic	0.61	0.44	-	-	-
CMT2/DMT2 A2A1 White Smooth Acrylic over Clear Smooth Acrylic	0.61	0.47	-	-	-
CMT2/DMT2 P1P1 LuxGuard Clear Smooth PC over Clear Smooth PC	0.61	0.62	74%	79.8%	0.1%
CMT3/DMT3 P1C2 LuxGuard Clear Smooth PC over Clear Smooth PC over White Prismatic PC	0.44	0.47	100%	60.6%	0.0%
CMT3/DMT3 P1P2 LuxGuard Clear Smooth PC over Clear Smooth PC over White Smooth PC	0.45	0.5	100%	P1P1-60.6%, P1P2 52.4%	0.0%
CMT3/DMT3 E2A1 EcoSky Satin Sky 2 Acrylic over Clear Smooth Acrylic over Clear Smooth Acrylic	0.47	0.36	99.8%	56.8%	2.3%
CMT3/DMT3 E2H1 EcoSky Satin Sky 2 Acrylic over Clear Smooth Acrylic over Satin Ice Acrylic	0.47	0.31	100%	39.0%	1.3%
CLC2 EcoSky Satin Sky 2 Acrylic over 10mm Multi-Wall Polycarbonate Laylite filled with Lumira® Aerogel	0.38	0.33	100%	35.4%	0.0%
CLC3 EcoSky Satin Sky 2 Acrylic over Clear Acrylic over 10mm Multi-Wall Polycarbonate Laylite filled with Lumira® Aerogel	0.34	0.31	98.1%	31.7%	0.0%

NOTE: U-Factor and SHGC values represent overall system performance. Haze, VLT, and UV are glazing performance only. Reference NFRC online for the most current testing results, CMT2-3/DMT2-3 [LINK](#), CLC2-3 [LINK](#).

FALL PROTECTION

Product Tested	Static (Max Weight)	Dynamic (Dropped Weight)
CMT2 / DMT2 P1C2 LuxGuard Smooth Polycarbonate / Prismatic, (0.118 PC/0.118 PC) CMT2 4896 P1C2, DMT2 4896 P1C2	1000 lbf Tested Size 4896	1600 lbf-ft / 400 lbs @ 4' Tested Size 4896
CMT2 X1P2 LuxGuard Plus Smooth over Smooth, (0.150 PC/0.118 PC) CMT2 4896 X1P2 (using P1P2 test results)	1000 lbf Tested Size 4896	1600 lbf-ft / 400 lbs @ 4' Tested Size 4896
CMT2/DMT2 P1P2 LuxGuard Smooth over Smooth, (0.118 PC/0.118 PC) CMT2 4896 P1P2, CMT2 4896 P1P1, DMT2 4896 P1P2, DMT2 4896 P1P1	1000 lbf Tested Size 6096	1600 lbf-ft / 400 lbs @ 4' Tested Size 6096
CMT2/DMT2 P1H1 LuxGuard Smooth over Satin Ice Acrylic, (0.118 PC/0.118 Satin Ice Acrylic) CMT2 6096 P1H1, DMT2 6096 P1H1	1000 lbf Tested Size 6096	1200 lbf-ft / 400 lbs @ 3' Tested Size 6096
CMT3/DMT3 P1C2 LuxGuard Smooth over Smooth over Prismatic (0.118 PC/0.118 PC/0.118 PC) CMT3 6096 P1C2 & DMT3 6096 P1C2	800 lbf Tested Size 5096 - CAE Screen Utilized	1600 lbf-ft / 400 lbs @ 4' Tested Size 5096, CAE Screen Utilized
CMT3/DMT3 P1P2 LuxGuard Smooth over Smooth over Smooth (0.118 PC/0.118 PC/0.118 PC) CMT3 6096 P1P2, CMT3 6096 P1P1, DMT3 6096 P1P2, DMT3 6096 P1P1	800 lbf Tested Size 6096 - CAE Screen Utilized	1600 lbf-ft / 400 lbs @ 4' Tested Size 6096, CAE Screen Utilized
CMT3/DMT3 E2H1 Satin Sky2 acrylic/clear acrylic/Satin Ice acrylic (0.118 Acrylic/0.118 Acrylic/0.118 Acrylic), CMT3 6096 E2H1	400 lbf Tested Size 6096 - CAE Screen Utilized	200 lbf-ft / @ 1' drop Tested Size 6096, CAE Screen Utilized
CMT2/DMT2 E2A1 EcoSky Satin Sky 2 over Smooth Acrylic, (0.118 acrylic/0.118 Acrylic) CMT2 4896 E2A1, CMT2 4896 E2A2, DMT2 4896 E2A1, DMT2 4896 E2A2	1000 lbf Tested Size 4896	500 lbf-ft / 100 lbs @ 5' Tested Size 4896
CMT3/DMT3 E2A1 EcoSky Satin Sky 2 over Clear Smooth over Clear Smooth (0.118 Acrylic/0.118 Acrylic/0.118 Acrylic), CMT 4896 E2A1, DMT 4896 E2A1	1000 lbf Tested Size 4896	500 lbf-ft / 100 lbs @ 5' Tested Size 4896
CMT3/DMT3 E2H1 EcoSky Satin Sky 2 over Clear Smooth over Satin Ice (0.118 Acrylic/0.118 Acrylic/0.118 Acrylic), CMT 4896 E2H1, DMT 4896 E2H1	1000 lbf Tested Size 4896 (test results from CMT3/DMT3 E2A1)	500 lbf-ft / 100 lbs @ 5' Tested Size 4896 (test results from CMT3/DMT3 E2A1)

Traditional Dome Unit Skylights

PERFORMANCE SUMMARY



AIR, WATER, STRUCTURAL TESTING

Product Tested	NAFS Testing	NAFS-17 Ratings
CMT2 X1P2 - LuxGuard Plus Smooth over Smooth, (0.150 PC/0.118 PC); CMT2 4896 X1P2 (using P1P2 test results)	Max Uplift	30 psf
	Max Download	30 psf
	Max Water Penetration	15 psf
	Max Air Leakage	0.030 cfm/ft ² (Fixed)
CMT2/DMT2 P1P2 - LuxGuard Smooth over Smooth, (0.118 PC/0.118 PC) CMT2 4896 P1P2; CMT2 4896 P1P1; DMT2 4896 P1P2, DMT2 4896 P1P1	Max Uplift	30 psf
	Max Download	30 psf
	Max Water Penetration	15 psf
	Max Air Leakage	0.030 cfm/ft ² (Fixed)

NOTE: The same test results can be used for the following triple dome glazing configurations:
P1P1C2, P1P1P2 and P1P1P1

HAIL TESTING

Material Tested	Hail
P1C2 - LuxGuard Smooth Polycarbonate (PC) over Prismatic PC	4" Pass
P1H1 - LuxGuard Smooth PC over Satin Ice Acrylic	4" Pass
P1P1 - LuxGuard Smooth PC over Smooth PC	4" Pass
P1P2 - LuxGuard Smooth PC over Smooth PC	4" Pass
X1P2 - LuxGuard Plus Smooth PC over Smooth PC	4" Pass
P1P1C2 - LuxGuard Smooth PC over Smooth PC over Prismatic PC	4" Pass
P1P1P1 - LuxGuard Smooth PC over Smooth PC over Smooth PC	4" Pass
P1P1P2 - LuxGuard Smooth PC over Smooth PC over Smooth PC	4" Pass

DOMESTIC MATERIAL TESTING

Material Tested	Smoke Density Rating ASTM D2843	Self-Ignition Temp ASTM D1929	Rate of Burn ASTM D635	Burn Brand Rating ASTM E108
P1 - LuxGuard Clear Smooth Polycarbonate, (0.118 PC)	48.5%	1030° F	CC1	Class A
P2 - LuxGuard White Smooth Polycarbonate, (0.118 PC)	59.6%	1030° F	CC1	Class A
C2 - LuxGuard White Prismatic Polycarbonate, (0.118 PC)	59.6%	1030° F	CC1	Class A
X1 - LuxGuard Plus Clear Smooth Polycarbonate, (0.150 PC)	33.9%	1030° F	CC1	Class A
A1 - Clear Smooth Acrylic, (0.118 Acrylic)	6.4%	850° F	CC2	-
A2 - White Smooth Acrylic, (0.118 Acrylic)	6.4%	850° F	CC2	-
A4 - Bronze Smooth Acrylic, (0.118 Acrylic)	6.4%	850° F	CC2	-
E2 - EcoSky/Satin Sky Infrared (IR)-blocking Acrylic, (0.118 Acrylic)	2.0%	840° F	CC2	-
H1 - Satin Ice Acrylic, (0.118 Satin Ice Acrylic)	2.0%	840° F	CC2	-
L2 - Lumira Aerogel-filled Multiwall Polycarbonate Panel (10mm)	-	-	CC1	-

Traditional Dome Unit Skylights

ORDERING LOGIC



MAXIMUM OUTSIDE CURB DIMENSIONS

LuxGuard	Smooth	71" x 119"
Polycarbonate (PC)	Prismatic	53" x 118"
LuxGuard Plus PC	Smooth	71" x 119"
Lumira Laylite ¹	Multiwall Panel	75" x 150"

	Standard Smooth	102" x 150"
Acrylic	Satin Ice (Light Diffusing)	71" x 119"
	Satin Sky (IR Blocking)	71" x 119"

NOTE: If Outside Curb Dimensions (OCD) exceed maximum dimensions above, see acrylic options. For Inside Curb Dimensions (ICD), subtract 3" from the above dimensions.

[POLYCARBONATE] ORDERING LOGIC EXAMPLE: **CMT** **2** [inside curb dimension] **P1C2**

Curb-Mount Traditional Dome Skylight, Double-Glazed, w" x h", Clear Smooth LuxGuard Polycarbonate outer dome, White Prismatic LuxGuard Polycarbonate inner dome

Model	# Domes	Size	Glazing	Outer Dome	Middle Dome	Inner Dome
CMT Curb-Mount Traditional Dome Unit Skylight	1	Inside Curb Dimensions (ICD)	P2	LuxGuard White Smooth Polycarbonate (PC)	-	-
DMT Deck-Mount Traditional Dome Unit Skylight	2		P1C2	LuxGuard Clear Smooth PC	-	LuxGuard White Prismatic PC
			P1H1	LuxGuard Clear Smooth PC	-	Satin Ice Acrylic
	3		P1P1	LuxGuard Clear Smooth (PC)	-	LuxGuard Clear Smooth PC
			P1P2	LuxGuard Clear Smooth PC	-	LuxGuard White Smooth PC
			X1P2	LuxGuard Plus Clear Smooth PC	-	LuxGuard White Smooth PC
			P1P1C2²	LuxGuard Clear Smooth PC	LuxGuard Clear Smooth PC	LuxGuard White Prismatic PC
			P1P1P1²	LuxGuard Clear Smooth PC	LuxGuard Clear Smooth PC	LuxGuard Clear Smooth PC
			P1P1P2²	LuxGuard Clear Smooth PC	LuxGuard Clear Smooth PC	LuxGuard White Smooth PC

[ACRYLIC] ORDERING LOGIC EXAMPLE: **CWC2 4280 A1A2**

Curb-Mount Traditional Dome, Double-Glazed, 37" x 75", Clear Smooth Acrylic outer dome over White Smooth Acrylic inner dome

Model	# Domes	Size	Inside Curb Dimensions	Outside Curb Dimensions	Maximum Skylight Clearance (Inside Frame Dimensions)
CMT Curb-Mount Traditional Dome Unit Skylight	2	2424	19" x 19"	22" x 22"	23-1/4" x 23-1/4"
CLC³ Curb-Mount Traditional Unit Skylight over Laylite ¹	3	2828	22-1/4" x 22-1/4"	25-1/4" x 25-1/4"	26-1/2" x 26-1/2"
CEC³ Curb-Mount Traditional Dome Unit Skylight with EcoSky/Satin Sky Glazing - finished frame ONLY ⁷		2836	22-1/4" x 30-1/4"	25-1/4" x 33-1/4"	26-1/2" x 34-1/2"
		2852	22-1/4" x 46-1/4"	25-1/4" x 49-1/4"	26-1/2" x 50-1/2"
CWC³ Curb-Mount Traditional Dome Unit Skylight - finished frame ONLY ⁷		3636	30-1/4" x 30-1/4"	33-1/4" x 33-1/4"	34-1/2" x 34-1/2"
DMT Deck-Mount Traditional Dome Unit Skylight		3652	30-1/4" x 46-1/4"	33-1/4" x 49-1/4"	34-1/2" x 50-1/2"
		3676	30-1/4" x 69-1/2"	33-1/4" x 72-1/2"	34-1/2" x 73-3/4"
		4242	37" x 37"	40" x 40"	41-1/4" x 41-1/4"
		4280	37" x 75"	40" x 78"	41-1/4" x 79-1/4"
		5252	46-1/4" x 46-1/4"	49-1/4" x 49-1/4"	50-1/2" x 50-1/2"
		5276	46-1/4" x 69-1/2"	49-1/4" x 72-1/2"	50-1/2" x 73-3/4"
		5296	46-1/4" x 89-1/2"	49-1/4" x 92-1/2"	50-1/2" x 93-3/4"
		5555	48" x 48"	51" x 51"	52-1/4" x 52-1/4"
		55102	48" x 96"	51" x 99"	52-1/4" x 100-1/4"
		6060	55" x 55"	58" x 58"	59-1/4" x 59-1/4"
		6476	57-1/2" x 69-1/2"	60-1/2" x 72-1/2"	61-3/4" x 73-3/4"
		6496	57-1/2" x 89-1/2"	60-1/2" x 92-1/2"	61-3/4" x 93-3/4"
		6666	60" x 60"	63" x 63"	64-1/4" x 64-1/4"
		66102	60" x 96"	63" x 99"	64-1/4" x 100-1/4"
		7272	68" x 68"	71" x 71"	72-1/4" x 72-1/4"
		8080	75" x 75"	78" x 78"	79-1/4" x 79-1/4"
		9898	92-1/2" x 92-1/2"	95-1/2" x 95-1/2"	96-3/4" x 96-3/4"

Glazing	Outer Dome	Middle Dome	Inner Dome
A1A1	Clear Smooth Acrylic	-	Clear Smooth Acrylic
A1A2	Clear Smooth Acrylic	-	White Smooth Acrylic
A1H1	Clear Smooth Acrylic	-	Satin Ice™ Acrylic
A1L2	Clear Smooth Acrylic	-	Lumira Aerogel-filled Laylite ¹
A2A1	White Smooth Acrylic	-	Clear Smooth Acrylic
A2A2	White Smooth Acrylic	-	White Smooth Acrylic
A4A1	Bronze Smooth Acrylic	-	Clear Smooth Acrylic
A4A2	Bronze Smooth Acrylic	-	White Smooth Acrylic
A4L2	Bronze Smooth Acrylic	-	Lumira Aerogel-filled Laylite ¹
E2A1	EcoSky/Satin Sky iR Acrylic ⁵	-	Clear Smooth Acrylic
E2L2	EcoSky/Satin Sky iR Acrylic ⁵	-	Lumira Aerogel-filled Laylite ¹
E2A1A1²	EcoSky/Satin Sky iR Acrylic ⁵	Clear Smooth Acrylic	Clear Smooth Acrylic
E2A1H1²	EcoSky/Satin Sky iR Acrylic ⁵	Clear Smooth Acrylic	Satin Ice™ Acrylic
E2A1L2^{2,4}	EcoSky/Satin Sky iR Acrylic ⁵	Clear Smooth Acrylic	Lumira Aerogel-filled Laylite ¹

Finish Options

Mill Finish (standard)
AAMA 2604 Neutral Grey Powder Coat ⁶
AAMA 2604 & 2605 Powder Coat ⁷

Footnotes:

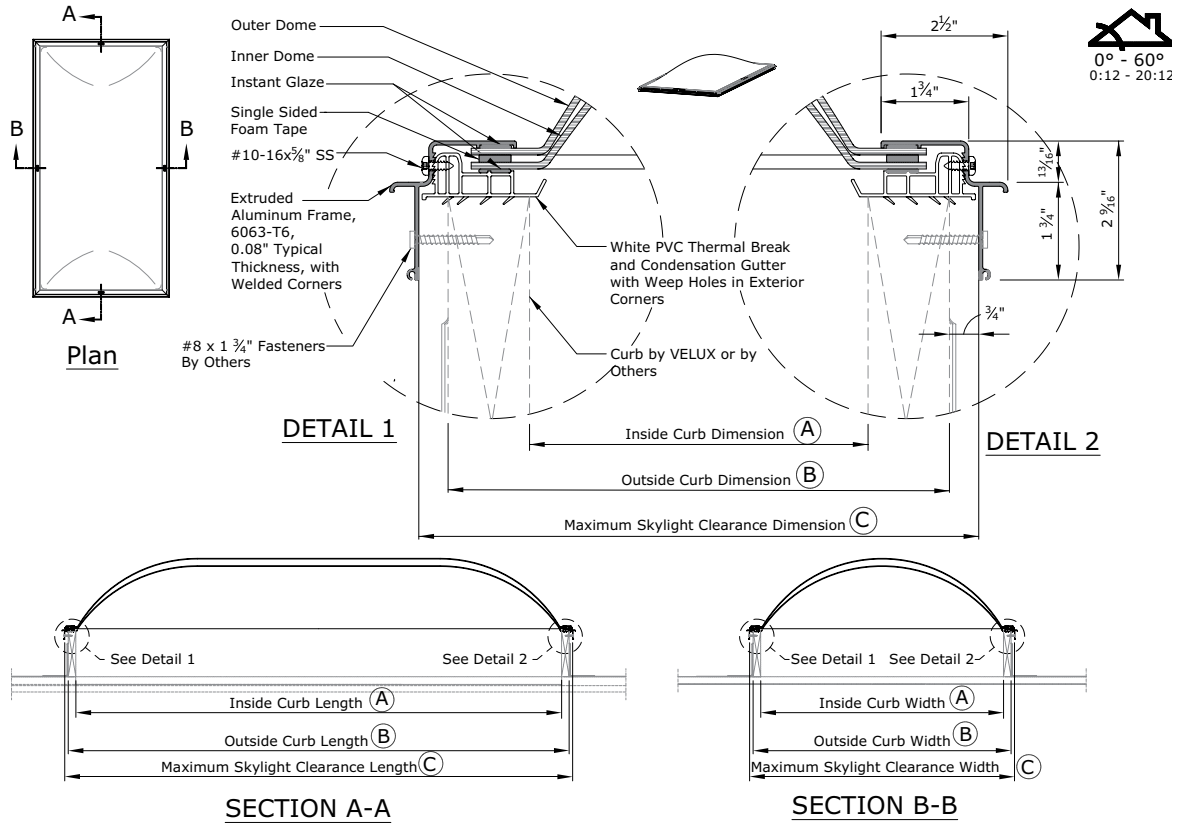
- Laylite = Lumira Aerogel-filled Multiwall Polycarbonate Panel (MWP), 10mm
- Middle dome glazing code may not be shown on quotes and order confirmations.
- Only available with acrylic glazing; maximum inside curb dimension is: 57" x 120" or 96" x 96" (e.g., if width exceeds 57", the maximum length is 96").
- Glazing configuration not available for models CMT and DMT.
- EcoSky/Satin Sky Infrared (IR)-blocking Acrylic
- Size limitation of maximum 55" x 55" (ICD) for models CMT and DMT.
- Only available for retainers with a frame finish other than Standard Mill and Neutral Grey, over 55"x55" ICD. Otherwise, models CMT and DMT should be used.

Traditional Dome Unit Skylights

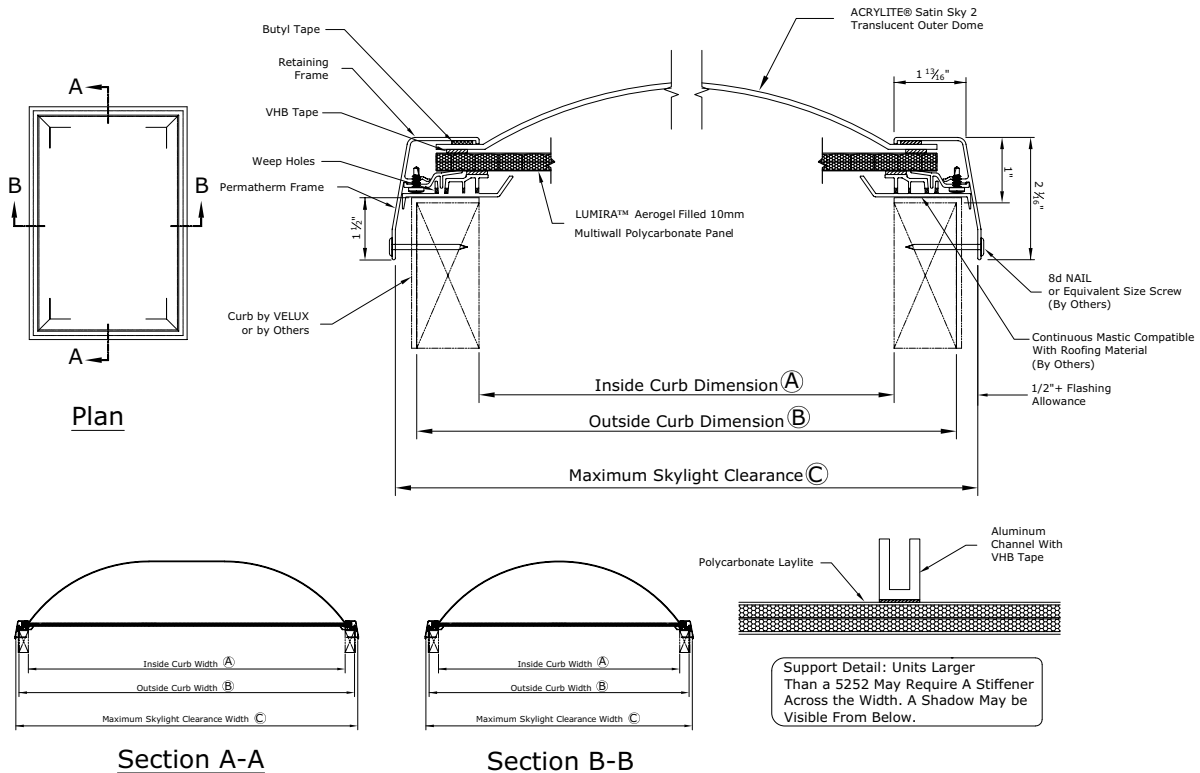
DETAILED DRAWINGS

Note: drawings below are for reference only. Detailed drawings will be provided for specific configured units.

CURB MOUNT DETAILS (CMT2 Example)



CURB MOUNT DETAILS (CLC2 Example)

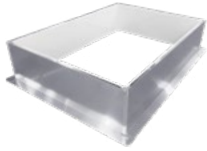


Traditional Dome Unit Skylights

ACCESSORIES



CURB OPTIONS



Curb: CCAW

Insulation: Factory Insulated Double Wall
Material: Aluminum
Height Options: 9", 12", 16"



Curb: CCA6

Insulation: Field Insulated Single Wall
Material: Galvanized Steel
Height Options: 9", 12", 14", 16", 18", 24"



Curb: CCA3

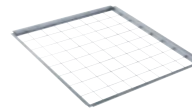
Insulation: Factory Insulated Double Wall
Material: Galvanized Steel
Height Options: 9", 12", 14", 16", 18", 24"

FALL PROTECTION OPTIONS



Exterior Safety Screen: CAE

4" o.c. mesh
(note: pictured here on a Dynamic Dome)



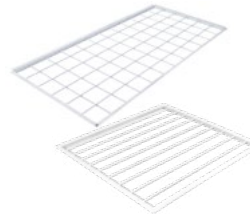
Interior safety screen: CRGA ICD

6" o.c. mesh



Exterior Safety Screen: CAEW

4" o.c. mesh



Interior security bars: CRGA BB/SB

BB = 1/2" steel bars (8" x 8" grid)
SB = 1/2" steel bars (5" o.c. parallel)

VELUX Commercial Distributor: Logistics Lighting - We Are Skylight Experts
Phone: 307-633-9696 - Toll Free: 844-455-7283 - Email: Sales@LogisticsLighting.com



Trusted for over 80 years for daylighting innovation, VELUX® offers an expansive commercial skylight product line to meet the aesthetic and performance specifications that transform and elevate your commercial projects.

When installed on commercial buildings, skylights and daylighting systems provide benefits that no other light source can offer. VELUX is a global leader in harnessing the benefits of the sun while balancing the structural demands of industry professionals with time-tested quality and economically, energy-efficient design options.