

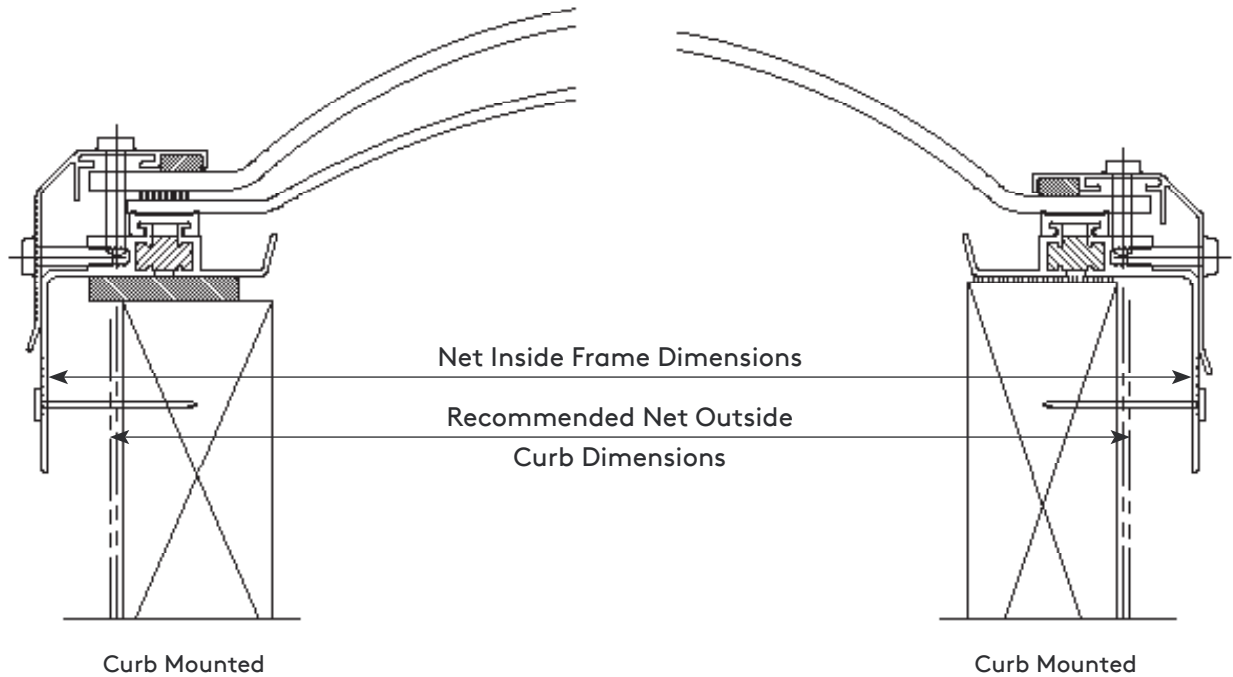
Tufflite Polycarbonate FM Product Data Sheet

Best Suited for High Impact Zones



Application

Skylights shall be fully factory assembled consisting of a polycarbonate dome with a CC-1 classification that is sealed by interior and exterior gaskets. The skylight frame is fabricated from 6063-T5 heliarc welded aluminum with an optional poured and debridged cavity with polyurethane thermal break material to prevent thermal losses through the frame and the formation of condensation on its interior surfaces. The skylight frame has an integral evaporative condensate channel. The aluminum retaining cap is fixed both horizontally and vertically (staggered) with #10 corrosive resistant fasteners at 6" maximum spacing. The skylight frame shall be installed on a 1-1/2" wide curb furnished by others. An optional aluminum self flashing curb has a 2-3/4" roof nailing flange and varies in height from 4" to 24".



Dimensions*

Model Size	Net Outside Curb Dim's.	Net Inside Frame Dim's.	Model Size	Net Outside Curb Dim's.	Net Inside Frame Dim's.	Model Size	Net Outside Curb Dim's.	Net Inside Frame Dim's.
2424	27" x 27"	28-1/4" x 28-1/4"	2448	27" x 51"	28-1/4" x 52-1/4"	4896	51" x 99"	52-1/4" x 100-1/4"
3636	39" x 39"	40-1/4" x 40-1/4"	2496	27" x 99"	28-1/4" x 100-1/4"	6072	63" x 75"	64-1/4" x 76-1/4"
4848	51" x 51"	52-1/4" x 52-1/4"	3660	39" x 63"	40-1/4" x 64-1/4"	6084	63" x 87"	64-1/4" x 88-1/4"
6060	63" x 63"	64-1/4" x 64-1/4"	3672	39" x 75"	40-1/4" x 76-1/4"	6096	63" x 99"	64-1/4" x 100-1/4"
			3696	39" x 99"	40-1/4" x 100-1/4"			
			4860	51" x 63"	52-1/4" x 64-1/4"			
			4872	51" x 75"	52-1/4" x 76-1/4"			
			4884	51" x 87"	52-1/4" x 88-1/4"			

Note: Recommended net outside curb dimensions (OCD) to be 1-1/4" smaller than net frame inside dimensions (IFD).

Technical Specifications

FM Global	Passed 4431 2" severe hail test
Combustion Classification	CC1
Underwriters Laboratories (UL)	Passed class 4 hail test

Example Model Number

4896-ALT(F)-CMT-2-CPC-WPC-MF

Features

1. Extruded 6063-T5 aluminum frame
2. Curb mounted (CM) or Self flashing (SF)
3. Monolithic polycarbonate glazing
4. Radial triarch shaped glazing, as standard
5. 2-3/4" nailing flange (*self flashing models only*)
6. UL Listed santoprene thermoplastic gaskets
7. Black butyl retainer cap sealant
8. Polyurethane glazing sealants

Skylight Options

1. EPDM curb seal tape (T)
2. Single (1) or double (2) glazed triarch dome(s)
3. Standard glazing options*:
 - a. Clear (CPC)
 - b. White (WPC)

**Other colors available upon request*
4. Mill finish frame (MF), as standard (*Custom, or specialized paint available upon request*)

Self Flashing Curb Options

1. Curb heights*:
 - a. 9"
 - b. 12"
 - c. 18"

**Custom heights available upon request*
2. Insulated curb (INS)
3. Wood nailer (WN)
4. Non-welded double wall (DW)
5. Welded double wall (WDW)
6. Aluminum termination bar (TB)

Accessories

1. Gladiator
 - a. External safety cages (SCAGE)
 - b. Safety screens (SSCRN)
 - c. Security grills (SG)
 - d. Structural curbs (SC)
2. Quickkit (*Installation Kits*)
 - a. Stainless steel (QKSS)
 - b. Zinc plated (QKZP)

Light Transmittance & Thermal Properties*

Glazing Makeup	VLT	SHGC	U-Factor
Single Glazed - CPC <i>Clear Polycarbonate</i>	92%	0.86	1.01
Single Glazed - WPC <i>White Polycarbonate</i>	72%	0.71	1.00
Double Glazed - CPC/CPC <i>Clear Polycarbonate/Clear Polycarbonate</i>	85%	0.74	0.72
Double Glazed - CPC/WPC <i>Clear Polycarbonate/White Polycarbonate</i>	60%	0.26	0.71

**Values are estimated and may vary slightly depending on unit size and specification*

Warranty

For a period of ten (10) years from the date of purchase, Kingspan Light + Air warrants that Tufflite Polycarbonate skylights will be free from defects in material and workmanship and that no water will leak through the commercial curb top or self flashed skylight. This warranty also includes coverage against documented 2" hail stones or smaller as well as cracking or crazing of polycarbonate dome material that would result in a water leak. Exceptions apply, see 10-year warranty document.

IMPORTANT SAFETY NOTE:

The owner must take steps to protect personnel who may be in the area of the skylight or smoke vent. The owner should restrict access only to authorized personnel who have been adequately cautioned as to the location of the skylights or smoke vents and informed of the warnings below. Because there is a risk of fall and resulting personal injury, we recommend protective guardrails, internal safety screens or external cages around all skylights and smoke vents, as well as the use of fall restraint systems. We also recommend that skylights and smoke vents are inspected annually for evidence of damage, such as cracks or penetrations. Any damage should be repaired immediately, and the area beneath the skylight or smoke vent should be safeguarded against falling objects.

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For the product offering in other markets please contact your local sales representative or visit www.kingspan.com/us

Notes

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