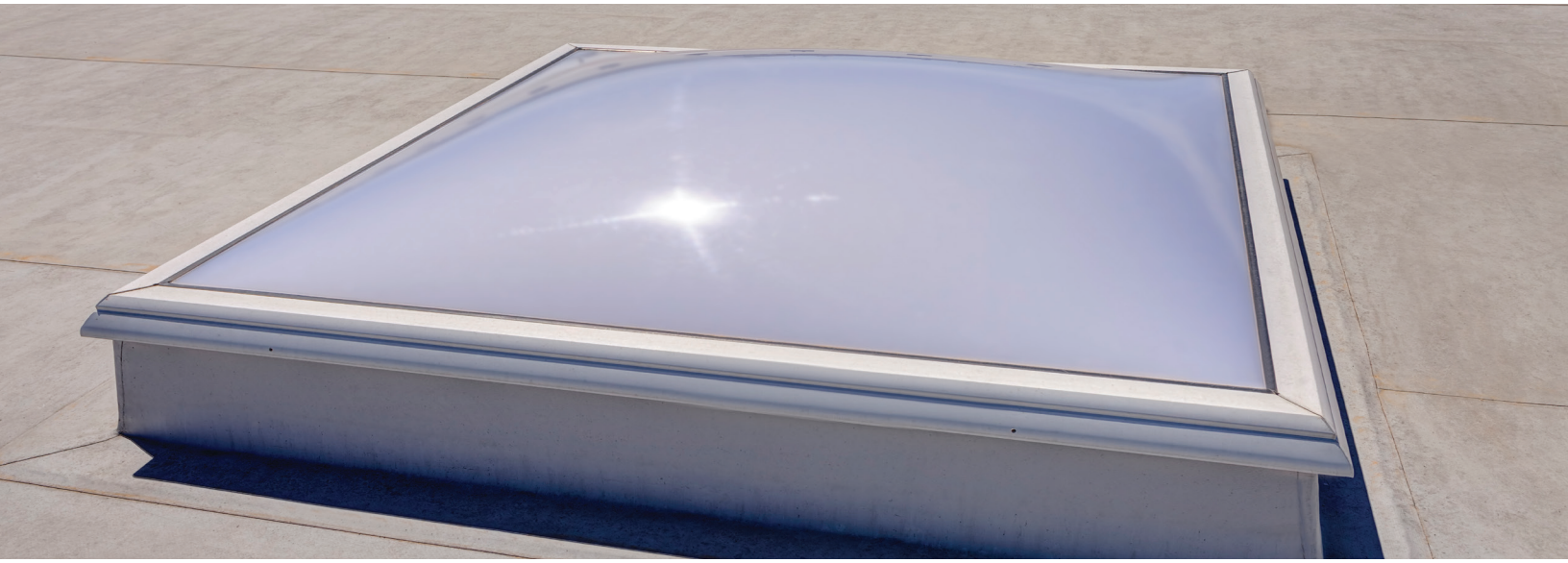
PLASKOLITE



BOOST ENERGY EFFICIENCY AND DAYLIGHTING WITH OPTIX®, DURAPLEX® AND TUFFAK®

PLASKOLITE FAMILY OF PRODUCTS

Skylights are often used in Architectural Daylighting for electrical energy savings, employee health and higher retail and student performance. Plaskolite has developed a range of durable sheet products used in high performance skylights that evenly distribute light throughout a room and control unwanted solar heat gain.

OPTIX

OPTIX acrylic sheet provides superior weathering resistance, clarity and light transmission. Available with a prismatic texture to help diffuse light.

DURAPLEX

DURAPLEX impact modified acrylic sheet is 5-6 times stronger than standard acrylic and is often used for skylights needing moderate impact resistance. The sheet provides excellent weathering resistance and is also available in a light diffusing prismatic texture. Custom modifier blends are available to tailor impact performance.

TUFFAK SK

TUFFAK SK is a polycarbonate prismatic sheet that is used to help diffuse light throughout the room. It is used in skylights requiring a high level of impact resistance. It is not designed to be a weatherable product and is used as the inner sheet in a two-dome skylight, see **Figure 1**.

TUFFAK SK1

TUFFAK SK1 polycarbonate sheet is used in skylights requiring a high level of impact resistance. The sheet is used as the exterior sheet two-dome skylight as its enhanced UV resistance cap layer provides long term weather resistance. Available with a prismatic texture for light diffusion.

TUFFAK SK High Diffusion (HD)

TUFFAK SK HD is a polycarbonate sheet designed to provide light diffusion and disperse light evenly throughout a room without sacrificing high light transmission.
A prismatic texture is available and often used in skylights for additional light diffusion. It is typically used as the interior sheet of a two-dome system, but TUFFAK SK1 HD is available with UV cap for use as the outside sheet or for single-dome skylights.

TUFFAK SK1 Climate Control (CC)

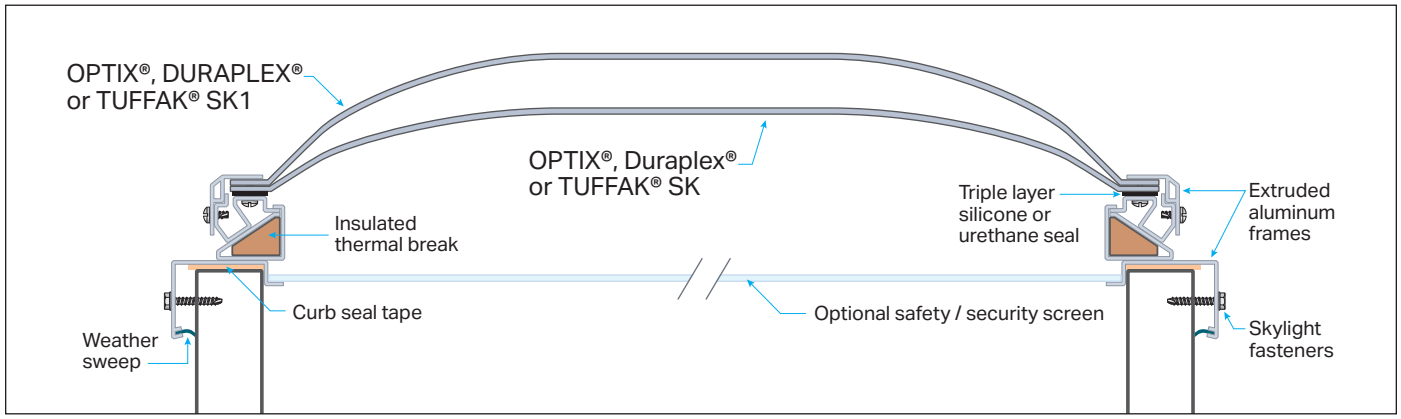
TUFFAK SK1 CC polycarbonate sheet uses high performance IR absorption technology to significantly reduce solar heat gain while maintaining high light transmission. Solar heat gain reduction is most effective when used as the outside sheet of the two-dome skylight; an enhanced UV cap layer provides long term weathering resistance.

OPTIX L Ecoshade

Optix L Ecoshade is a continuous cast acrylic sheet designed to reflect IR light to significantly reduce solar heat gain. The sheet also provides light diffusion to spread light through out the interior space and has outstanding weathering resistance.

PLASKOLITE FAMILY OF SKYLIGHT PRODUCTS

Figure 1: Typical two-dome skylight cross section



Family of Skylight Products

Features	TUFFAK SK Polycarbonate	TUFFAK SK1 Polycarbonate	TUFFAK SK1 HD Polycarbonate	TUFFAK SK1 CC Polycarbonate	OPTIX L EcoShade Continuous Cast Acrylic	DURAPLEX Extruded Acrylic
Weather Resistant		x	x	x	x	x
High Diffusion			x		x	x
Solar Heat Gain Reduction				x	x	
Light Transmission @ 0.118″	90%	92%	B72 - 72% B81 - 81%	SO1 - 73% SO5 - 69%	0.177″- 53% (no value available for 0.118″)	90%
Impact Resistant	x	x	x	x		x
Gauge Range, Smooth		0.060″- 0.500″	0.060″- 0.500″	0.060″- 0.500″	0.118″and 0.177″	0.040″- 0.500″
Gauge Range, Prismatic	0.118″- 0.236″	0.118″- 0.236”	0.118″- 0.236″	0.118″- 0.236″		NA
Colors	Clear	Clear	High Diffusion White	Light Blue	Reflected - Gold Transmitted - Blue	Clear & Various Colors

Regulatory code compliance and certifications for Skylight products

ANSI Z97.1 American National Standard for Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test

Florida Building Code High Velocity Hurricane Zone Classified Miami-Dade (TUFFAK)

Hail Impact Resistance (FM 4431) Class 4 Severe Rating – Pass (TUFFAK)

IBC section 2606.4 Light Transmitting Plastics (TUFFAK = CC1; OPTIX / DURAPLEX = CC2)

ICC-ES Evaluation Report #ESR-2728; (TUFFAK), #ESR 2591 (OPTIX), #ESR 2590 (DURAPLEX)

UL 972 Burglary Resistant File #BP2126 (TUFFAK)

UL 94 Flammability File #E87887

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determines the suitability of our materials and suggestions before adopting them on a commercial scale.

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