



We take architectural glass a step ahead.

August 16th,2017

Calculation of Solar Optical Properties

1 1/16" (26mm) thick Okalux Plus insulated, light diffusing glass

Okalux Plus make up:

¼" fully tempered glass with Guardian SNX 62-27 side # 2
9/16" argon gas filled cavity:
(¼" capillary slab, 2 x SAB 30 + 1 X SAB 45 fiber tissue, and 5/16" free argon gas)
¼" fully tempered glass

Solar/Optical Properties

Light transmission, direct (Tv)	29%	light transmission for beam incidence
Light transmission, diffuse	23%	light transmission for diffuse incidence
Light reflectance, direct	7%	specular light reflectance
Solar transmission, direct (Ts)	12%	solar transmission for beam incidence
Solar transmission, diffuse	9%	solar transmission for diffuse incidence
Solar absorption, direct	43%	solar absorption for beam incidence
Solar reflection, direct	29%	specular solar reflectance for beam incidence
Solar Heat Gain Coefficient, direct (SHGC)	15%	Total solar energy transmission
Shading Coefficient (SC)	17%	SC = SHGC/.86 GANA (1997)
U-Value, btu	.24	thermal transmittance btu/hr./f2/F
U-Value, W/m2	1.4	thermal transmittance W/m2/K