



ARCHITECTURAL QUALITY

Sphinx Glass is produced by means of the float process, which gives the glass its perfect flat and parallel surface. The product comes with advanced optical properties, exceptional clarity and light transmittance, thanks to Egypt's high quality silicasands.

The production process itself entails pouring molten glass over a bath of molten tin; the glass then flows over the surface, forming a smooth floating ribbon, with even thickness on either side of the tin. The ribbon then passes through a cooling tunnel known as the annealing (LEHR.). In this controlled setting, the temperature is gradually lowered to remove any internal stresses in the glass sheet and allow for its workability during processing.

At Sphinx Glass, special attention is paid to the annealing process to ensure optimum post processing results in the tempering, double glazing, lamination, coating and silvering stages. High dimensional accuracy is applied during the online cutting process to ensure the glass sheets come out as perfect rectangle.

APPLICATIONS

Trulite Clear Glass is used in a wide variety of architectural applications, such as magnetron coating, lamination curtain walls, and structural glass façades, in addition to silvering for the production of high quality mirrors beside the automotive industry.

Glass Configuration	UV	Visible Light				Solar Energy						U-Value W/M2K
		Transmittance %	Reflec-tance, Ext. %	Reflec-tance, Int. %	Color Render Index Ra (D65) %	Transmittance %	Reflec-tance %	Absorp-tion %	Solar Factor EN410	SHGC	SC	
4 MM	62	90	9	9	99	84	9	7	0.86	0.85	0.99	5.8
5 MM	59	89	9	9	98	82	9	9	0.85	0.84	0.98	5.8
6 MM	55	89	9	9	98	80	9	11	0.84	0.83	0.97	5.7
8 MM	51	88	9	9	97	77	8	15	0.82	0.81	0.94	5.6
10 MM	49	87	9	9	97	75	8	17	0.80	0.79	0.92	5.6
12 MM	46	86	9	9	96	72	8	20	0.78	0.77	0.90	5.5
15 MM	42	84	8	8	95	68	7	25	0.76	0.75	0.87	5.4
19 MM	39	84	8	8	95	65	7	28	0.73	0.72	0.84	5.3

- Performance data is based on representative samples of factory production. Actual values may vary slightly due to variations in the production process.
- Tabulated data is based on NRC methodology using the LBL windows 5.2 software and where noted European methodology using WinDat WIS version 3.0.1 software.
- SF = Solar Factor (EN410) also known as g-value.
- Color Rendering Index Ra (D65) = the ability of transmitted daylight to portray a variety of colors compared to those seen under daylight without the glazing.
- "a(D65)" refers to an average of eight color samples at 6500 K color temperature. In illumination, general color rendering indices Ra.
- Above 90 are very good and Ra between 80 and 90 are good.