EXETER.NET

EXETER ARCHITECTURAL PRODUCTS

800-213-2575

We contracted a nationally known, independent testing laboratory to determine the Shading Coefficient of our HURRICANE RATED SCREENS and the effect installation of the barriers would have on solar heat gain.

The testing determined the Shading Coefficient of our HURRICANE RATED SCREENS to be .51. (The Shading Coefficient represents the percentage of solar heat gain that is transmitted to the interior of a structure through the glass and shading system. The Shading Coefficient for clear glass is 1.) This means, for a given opening, solar heat gain is reduced by almost 50%.

Reducing the solar heat gain is a practical method for saving energy. For example, just sixty square feet of glass can admit as much as 12,000 BTU of heat each hour, requiring one extra ton of air condition*. By installing HURRICANE RATED SCREENS over the existing glass, the amount of solar heat being introduced through the opening is reduced by almost 50%.

The following chart represents the solar heat gain for 1/8" clear glass (ASHRAE reference glazing) and 1/8" clear glass protected by our product. Conditions were simulated for Summer in Miami, Florida for East, West and South facing openings.

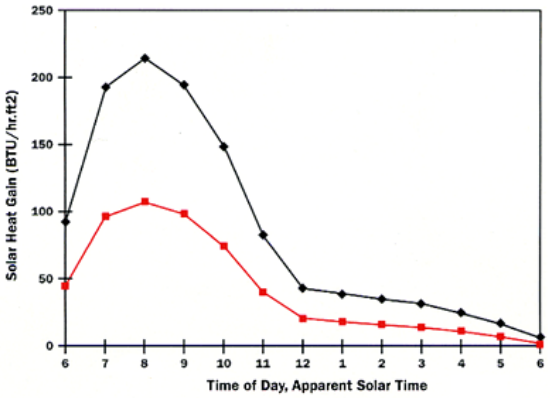
Clear Sky Solar Heat Gain - Miami, Florida

Time of Day	East Surface BTU/hr.ft2		South Surface BTU/hr.ft2		West Surface BTU/hr.ft2	
AST	1/8" Clear	Using an Exeter Screen	1/8" Clear	Using an Exeter Screen	1/8" Clear	Using an Exeter Screen
7am	193	98	18	9	18	9
8am	215	109	27	14	26	13
9am	195	100	34	17	32	16
10am	149	76	40	21	36	18
11am	83	42	47	24	39	20
Noon	43	22	50	26	43	22
1pm	39	20	47	24	83	42
2pm	36	18	40	21	149	76
3pm	32	16	34	17	195	100
4pm	26	13	27	14	215	109
5pm	18	9	18	9	193	98
6pm	7	3	7	3	91	46

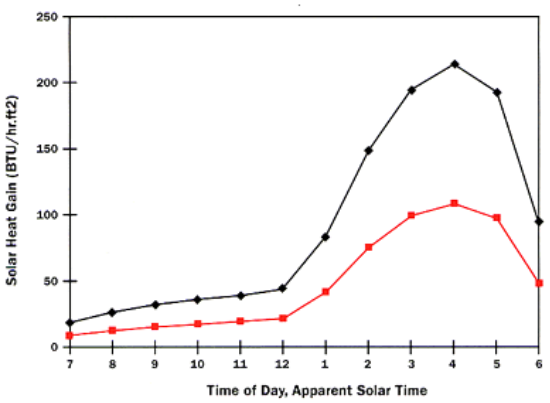
- East Facing - 8 A.M.,Miami, Florida
- Time is given in Apparent Solar Time
- 1/8" Clear = 1/8" clear ASHRAE reference glazing
- Testing and Data supplied by Tait Solar Co., Inc., Tempe, Arizona

Clear Sky Solar Heat Gain - Miami, Florida Chart

Clear Sky Solar Heat Gain Reduction
East Facing Vertical Surface



Clear Sky Solar Heat Gain Reduction
West Facing Vertical Surface



Clear Sky Solar Heat Gain Reduction
South Facing Vertical Surface