

## LIGHT TRANSMISSION & SOLAR HEAT GAIN COEFFICIENT FOR 2 3/4" (70mm) PANELS

(For 4" (100mm) Light Transmission & Solar Heat Gain Coefficient values, contact Kalwall Corporation)

| FACE SHEET COMBINATION <sup>note 1</sup> |                | % LIGHT TRANSMISSION <sup>note 2</sup> |               |               |               |          | WALL SYSTEM SOLAR HEAT GAIN COEFFICIENT AT 0° <sup>note 3</sup> |               |               |               |             |
|--|----------------|--|---------------|---------------|---------------|----------|---|---------------|---------------|---------------|-------------|
| EXTERIOR COLOR                           | INTERIOR COLOR | 0.53 "U" <sup>note 4</sup>             | 0.29/0.23 "U" | 0.22/0.14 "U" | 0.18/0.10 "U" | 0.05 "U" | 0.53 "U"  | 0.29/0.23 "U" | 0.22/0.14 "U" | 0.18/0.10 "U" | 0.05 "U"    |
| Greenish Blue                            | White          | 25                                     | 14            | 5             | 3             | 12       | 0.50  | 0.23          | 0.14          | 0.10          | 0.19        |
| Aqua                                     | White          | 29                                     | 17            | 6             | 4             | 13       | 0.45  | 0.24          | 0.14          | 0.10          | 0.21        |
| Rose                                     | White          | 30                                     | 18            | 6             | 4             | 14       | 0.46  | 0.24          | 0.15          | 0.10          | 0.21        |
| Ice Blue                                 | White          | 35                                     | 20            | 8             | 6             | 18       | 0.54  | 0.28          | 0.17          | 0.12          | 0.26        |
| Greenish Blue                            | Crystal        | 37                                     | 20            | 7             | 4             | NA       | 0.53  | 0.26          | 0.16          | 0.11          | NA          |
| Aqua                                     | Crystal        | 43                                     | 23            | 7             | 4             | NA       | 0.55  | 0.27          | 0.16          | 0.11          | NA          |
| Rose                                     | Crystal        | 48                                     | 24            | 8             | 5             | NA       | 0.57  | 0.28          | 0.17          | 0.12          | NA          |
| Ice Blue                                 | Crystal        | 53                                     | 27            | 10            | 6             | NA       | 0.68  | 0.32          | 0.19          | 0.13          | NA          |
| White                                    | Crystal        | 30                                     | 18            | 12            | 8             | NA       | 0.46  | 0.24          | 0.14          | 0.10          | NA          |
| White                                    | White          | 20                                     | 15            | 8             | 5             | 12       | 0.38  | <b>0.23</b>   | <b>0.15</b>   | <b>0.11</b>   | <b>0.18</b> |
| Crystal                                  | White          | 35                                     | 20            | 12            | 8             | 17       | 0.52  | <b>0.28</b>   | <b>0.17</b>   | <b>0.13</b>   | <b>0.25</b> |
| Crystal                                  | Crystal        | 50                                     | 30            | 15            | 10            | NA       | 0.65  | <b>0.33</b>   | <b>0.18</b>   | <b>0.13</b>   | NA          |
| Crystal SWC <sup>note 5</sup>            | White          | 29                                     | 16            | 9             | 6             | 15       | 0.47  | 0.25          | 0.15          | 0.10          | 0.23        |
| Crystal SWC                              | Crystal        | 44                                     | 22            | 11            | 8             | NA       | 0.58  | 0.29          | 0.17          | 0.12          | NA          |

- Other combinations available.
- Approximate values by ASTM E-972. Light transmission values over 30% not recommended for most applications.
- At 0° incident angle. **Bold** values are NFRC Certified, others are calculated based on tests. Shading Coefficient (SC) is equal to 1.15 times the Solar Heat Gain Coefficient (SHGC). Contact Kalwall Corporation for complete NFRC System Values.
- "U" Values determined by NFRC test method (ASTM C-1363, E-1423 and C-1199 or simulation at certified lab). Expressed as BTU/(ft<sup>2</sup>·h·°F) for aluminum grid / thermally broken grid, nominal 12" x 24". Perimeter aluminum excluded. Test temperature at 15 mph wind (6.7 m/s): 0°F (-18°C) cold side & 70°F (21°C) warm side.
- SW, Type A, and White High Impact face sheets are similar in light transmission and solar heat gain properties.

Check with Technical Services Department for further clarification. Since this table is of a very technical nature, please consult your heating and ventilation engineer for proper interpretation.

| Metric U Value Conversions |      |      |      |      |      |      |      |      |                             |
|----------------------------|------|------|------|------|------|------|------|------|-----------------------------|
| English                    | 0.53 | 0.29 | 0.23 | 0.22 | 0.18 | 0.14 | 0.10 | 0.05 | Btu/(ft <sup>2</sup> ·h·°F) |
| SI                         | 3.01 | 1.65 | 1.31 | 1.25 | 1.02 | 0.79 | 0.57 | 0.28 | W/(m <sup>2</sup> ·K)       |

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Specifications subject to change without notice.