

PERFORMANCE

OFF-LINE LOW-E GLASS

OFF-LINE LOW-E IGU PARAMETER

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OFF-LINE LOW-E IGU PARAMETERS

| Type | Product | Silver Layer | Glass Color | Reflective Layer Color | Visible Light (%) | | | Solar Heat (%) | | U-value(W/M ² .K) | | | | U-Value (BTU/H.ft ² .°F) | | | | Shading Co-efficient | Solar Heat Gain Co-efficient | RHG (W/M ²) |
|------|---------------------------------|--------------|-------------|------------------------|-------------------|---------|--------|----------------|---------|------------------------------|------|--------|------|-------------------------------------|------|--------|------|----------------------|------------------------------|-------------------------|
| | | | | | Trans. | Reflect | | Trans. | Reflect | Winter | | Summer | | Winter | | Summer | | | | |
| | | | | | | Outdoor | indoor | | | Air | Ar | Air | Ar | Air | Ar | Air | Ar | | | |
| 1 | 3.2(IGLBT48-30G) +6A +3.2C | Single | Clear | Light Blue | 43.74 | 31.56 | 14.19 | 29.87 | 36.56 | 2.46 | 2.01 | 2.5 | 2.08 | 0.43 | 0.35 | 0.44 | 0.37 | 0.4 | 0.35 | 270 |
| | 3.2(IGLBT48-30G) +9A +3.2C | Single | Clear | Light Blue | 43.74 | 31.56 | 14.19 | 29.87 | 36.56 | 2 | 1.62 | 2.06 | 1.69 | 0.35 | 0.29 | 0.36 | 0.3 | 0.4 | 0.35 | 263 |
| | 3.2(IGLBT48-30G) +12A +3.2C | Single | Clear | Light Blue | 43.74 | 31.56 | 14.19 | 29.87 | 36.56 | 1.8 | 1.5 | 1.78 | 1.47 | 0.32 | 0.26 | 0.31 | 0.26 | 0.39 | 0.34 | 259 |
| | 3.2(IGLBT48-30G) +15A +3.2C | Single | Clear | Light Blue | 43.74 | 31.56 | 14.19 | 29.87 | 36.56 | 1.82 | 1.55 | 1.6 | 1.32 | 0.32 | 0.27 | 0.28 | 0.23 | 0.39 | 0.34 | 256 |
| | 4(IGLBT48-30G) +6A +4C | Single | Clear | Light Blue | 43.03 | 30.77 | 13.59 | 28.24 | 34.49 | 2.46 | 2 | 2.49 | 2.07 | 0.43 | 0.35 | 0.44 | 0.36 | 0.4 | 0.35 | 267 |
| | 4(IGLBT48-30G) +9A +4C | Single | Clear | Light Blue | 43.03 | 30.77 | 13.59 | 28.24 | 34.49 | 2 | 1.62 | 2.06 | 1.69 | 0.35 | 0.29 | 0.36 | 0.3 | 0.39 | 0.34 | 261 |
| | 4(IGLBT48-30G) +12A +4C | Single | Clear | Light Blue | 43.03 | 30.77 | 13.59 | 28.24 | 34.49 | 1.79 | 1.5 | 1.78 | 1.46 | 0.32 | 0.26 | 0.31 | 0.26 | 0.39 | 0.34 | 257 |
| | 4(IGLBT48-30G) +15A +4C | Single | Clear | Light Blue | 43.03 | 30.77 | 13.59 | 28.24 | 34.49 | 1.82 | 1.54 | 1.59 | 1.31 | 0.32 | 0.27 | 0.28 | 0.23 | 0.39 | 0.34 | 254 |
| 2 | 3.2(IGBHTE59-17G) +6A +3.2C | Single | Clear | Blue Grey | 54.46 | 19.79 | 10.82 | 38.83 | 25.16 | 2.52 | 2.08 | 2.56 | 2.16 | 0.44 | 0.37 | 0.45 | 0.38 | 0.51 | 0.44 | 341 |
| | 3.2(IGBHTE59-17G) +9A +3.2C | Single | Clear | Blue Grey | 54.46 | 19.79 | 10.82 | 38.83 | 25.16 | 2.07 | 1.7 | 2.14 | 1.79 | 0.36 | 0.3 | 0.38 | 0.32 | 0.51 | 0.44 | 335 |
| | 3.2(IGBHTE59-17G) +12A +3.2C | Single | Clear | Blue Grey | 54.46 | 19.79 | 10.82 | 38.83 | 25.16 | 1.87 | 1.59 | 1.88 | 1.58 | 0.33 | 0.28 | 0.33 | 0.28 | 0.51 | 0.44 | 331 |
| | 3.2(IGBHTE59-17G) +15A +3.2C | Single | Clear | Blue Grey | 54.46 | 19.79 | 10.82 | 38.83 | 25.16 | 1.89 | 1.63 | 1.7 | 1.44 | 0.33 | 0.29 | 0.3 | 0.25 | 0.5 | 0.44 | 328 |
| | 4 (IGBHTE59-17G) +6A +4C | Single | Clear | Blue Grey | 53.69 | 19.95 | 10.86 | 36.57 | 24.38 | 2.51 | 2.07 | 2.55 | 2.15 | 0.44 | 0.36 | 0.45 | 0.38 | 0.51 | 0.44 | 335 |
| | 4 (IGBHTE59-17G) +9A +4C | Single | Clear | Blue Grey | 53.69 | 19.95 | 10.86 | 36.57 | 24.38 | 2.07 | 1.7 | 2.14 | 1.79 | 0.36 | 0.3 | 0.38 | 0.32 | 0.5 | 0.44 | 329 |
| | 4 (IGBHTE59-17G) +12A +4C | Single | Clear | Blue Grey | 53.69 | 19.95 | 10.86 | 36.57 | 24.38 | 1.87 | 1.59 | 1.88 | 1.58 | 0.33 | 0.28 | 0.33 | 0.28 | 0.5 | 0.44 | 326 |

| TYPE | Product | Silver Layer | Glass Color | Reflective Layer Color | Visible Light (%) | | | Solar Heat (%) | | U-value(W/M ² .K) | | | | U-Value (BTU/H.ft ² .°F) | | | | Shading Co-efficient | Solar Heat Gain Co-efficient | RHG (W/M ²) |
|------|---------------------------------|--------------|-------------|------------------------|-------------------|---------|--------|----------------|---------|------------------------------|------|--------|------|-------------------------------------|------|--------|------|----------------------|------------------------------|-------------------------|
| | | | | | Trans. | Reflect | | Trans. | Reflect | Winter | | Summer | | Winter | | Summer | | | | |
| | | | | | | Outdoor | indoor | | | Air | Ar | Air | Ar | Air | Ar | Air | Ar | | | |
| 2 | 4 (IGBTE59-17G) +15A +4C | Single | Clear | Blue Grey | 53.69 | 19.95 | 10.86 | 36.57 | 24.38 | 1.89 | 1.62 | 1.7 | 1.44 | 0.33 | 0.29 | 0.3 | 0.25 | 0.5 | 0.44 | 324 |
| 3 | 3.2 (IGLCTE81-6G) +6A +3.2C | Single | Clear | Clear | 74.15 | 11.88 | 12.95 | 56.36 | 19.16 | 2.52 | 2.08 | 2.56 | 2.16 | 0.44 | 0.37 | 0.45 | 0.38 | 0.71 | 0.62 | 464 |
| | 3.2 (IGLCTE81-6G) +9A +3.2C | Single | Clear | Clear | 74.15 | 11.88 | 12.95 | 56.36 | 19.16 | 20.7 | 1.7 | 2.14 | 1.79 | 0.36 | 0.3 | 0.38 | 0.32 | 0.71 | 0.62 | 460 |
| | 3.2 (IGLCTE81-6G) +12A +3.2C | Single | Clear | Clear | 74.15 | 11.88 | 12.95 | 56.36 | 19.16 | 1.87 | 1.59 | 1.88 | 1.58 | 0.33 | 0.28 | 0.33 | 0.28 | 0.71 | 0.62 | 457 |
| | 3.2 (IGLCTE81-6G) +15A +3.2C | Single | Clear | Clear | 74.15 | 11.88 | 12.95 | 56.36 | 19.16 | 1.89 | 1.63 | 1.7 | 1.44 | 0.33 | 0.29 | 0.3 | 0.25 | 0.7 | 0.61 | 455 |
| | 4 (IGLCTE81-6G) +6A +4C | Single | Clear | Clear | 72.81 | 11.18 | 12.48 | 52.55 | 18.53 | 2.51 | 2.07 | 2.55 | 2.15 | 0.44 | 0.36 | 0.45 | 0.38 | 0.69 | 0.6 | 451 |
| | 4 (IGLCTE81-6G) +9A +4C | Single | Clear | Clear | 72.81 | 11.18 | 12.48 | 52.55 | 18.53 | 2.07 | 1.7 | 2.14 | 1.79 | 0.36 | 0.3 | 0.38 | 0.32 | 0.69 | 0.6 | 448 |
| | 4 (IGLCTE81-6G) +12A +4C | Single | Clear | Clear | 72.81 | 11.18 | 12.48 | 52.55 | 18.53 | 1.87 | 1.59 | 1.88 | 1.58 | 0.33 | 0.28 | 0.33 | 0.28 | 0.69 | 0.6 | 446 |
| | 4 (IGLCTE81-6G) +15A +4C | Single | Clear | Clear | 72.81 | 11.18 | 12.48 | 52.55 | 18.53 | 1.89 | 1.62 | 1.7 | 1.44 | 0.33 | 0.29 | 0.3 | 0.25 | 0.69 | 0.6 | 444 |
| 4 | 3.2(IGLBTE48-19G) +6A +3.2C | Single | Clear | Light Blue | 43.86 | 20.8 | 12.8 | 30.5 | 28.54 | 2.48 | 2.02 | 2.51 | 2 | 0.44 | 0.36 | 0.44 | 0.37 | 0.41 | 0.37 | 281 |
| | 3.2(IGLBTE48-19G) +9A +3.2C | Single | Clear | Light Blue | 43.86 | 20.8 | 12.8 | 30.5 | 28.54 | 2.02 | 1.64 | 2.08 | 1.72 | 0.36 | 0.29 | 0.37 | 0.3 | 0.41 | 0.36 | 273 |
| | 3.2(IGLBTE48-19G) +12A +3.2C | Single | Clear | Light Blue | 43.86 | 20.8 | 12.8 | 30.5 | 28.54 | 1.82 | 1.53 | 1.81 | 1.49 | 0.32 | 0.27 | 0.32 | 0.26 | 0.41 | 0.36 | 268 |
| | 3.2(IGLBTE48-19G) +15A +3.2C | Single | Clear | Light Blue | 43.86 | 20.8 | 12.8 | 30.5 | 28.54 | 1.84 | 1.57 | 1.62 | 1.35 | 0.32 | 0.28 | 0.29 | 0.24 | 0.41 | 0.36 | 266 |
| | 4 (IGLBTE48-19G) +6A +4C | Single | Clear | Light Blue | 43.27 | 20.62 | 12.8 | 28.74 | 27.5 | 2.47 | 2.02 | 2.5 | 2.09 | 0.43 | 0.36 | 0.44 | 0.37 | 0.41 | 0.36 | 277 |
| | 4 (IGLBTE48-19G) +9A +4C | Single | Clear | Light Blue | 43.27 | 20.62 | 12.8 | 28.74 | 27.5 | 2.01 | 1.64 | 2.08 | 1.72 | 0.35 | 0.29 | 0.37 | 0.3 | 0.41 | 0.36 | 270 |
| | 4 (IGLBTE48-19G) +12A +4C | Single | Clear | Light Blue | 43.27 | 20.62 | 12.8 | 28.74 | 27.5 | 1.81 | 1.52 | 1.81 | 1.49 | 0.32 | 0.27 | 0.32 | 0.26 | 0.4 | 0.35 | 265 |

| TYPE | Product | Silver Layer | Glass Color | Reflective Layer Color | Visible Light (%) | | | Solar Heat (%) | | U-value(W/M ² .K) | | | | U-Value (BTU/H.ft ² .°F) | | | | Shading Co-efficient | Solar Heat Gain Co-efficient | RHG (W/M ²) |
|------|------------------------------|--------------|-------------|------------------------|-------------------|---------|--------|----------------|---------|------------------------------|-------|--------|-------|-------------------------------------|------|--------|------|----------------------|------------------------------|-------------------------|
| | | | | | Trans. | Reflect | | Trans. | Reflect | Winter | | Summer | | Winter | | Summer | | | | |
| | | | | | | Outdoor | indoor | | | Air | Ar | Air | Ar | Air | Ar | Air | Ar | | | |
| 4 | 4 (IGLBTE48-19G) +15A +4C | Single | Clear | Light Blue | 43.27 | 20.62 | 12.8 | 28.74 | 27.5 | 1.84 | 1.56 | 1.62 | 1.35 | 0.32 | 0.27 | 0.29 | 0.24 | 0.4 | 0.35 | 263 |
| 5 | 6(IGBHDE55-9G) +6A+6C | Double | Clear | Blue Grey | 47.69 | 10.5 | 12.54 | 26.71 | 25.04 | 2.39 | 1.93 | 2.42 | 1.99 | 0.42 | 0.34 | 0.42 | 0.35 | 0.405 | 0.35 | 274 |
| | 6(IGBHDE55-9G) +9A+6C | Double | Clear | Blue Grey | 47.69 | 10.5 | 12.54 | 26.71 | 25.04 | 1.93 | 1.54 | 1.97 | 1.6 | 0.34 | 0.27 | 0.34 | 0.28 | 0.39 | 0.34 | 256 |
| | 6(IGBHDE55-9G) +12A+6C | Double | Clear | Blue Grey | 47.69 | 10.5 | 12.54 | 26.71 | 25.04 | 1.72 | 1.42 | 1.69 | 1.36 | 0.30 | 0.25 | 0.30 | 0.24 | 0.38 | 0.33 | 251 |
| | 6(IGBHDE55-9G) +15A+6C | Double | Clear | Blue Grey | 47.69 | 10.5 | 12.54 | 26.71 | 25.04 | 1.75 | 1.47 | 1.5 | 1.21 | 0.31 | 0.26 | 0.26 | 0.21 | 0.384 | 0.33 | 254 |
| 6 | 6 (IGSCDE76-5G) +6A+6C | Double | Clear | Clear | 68.87 | 10.51 | 11.75 | 39.54 | 24.59 | 2.39 | 1.93 | 2.42 | 1.99 | 0.42 | 0.34 | 0.42 | 0.35 | 0.544 | 0.47 | 362 |
| | 6 (IGSCDE76-5G) +9A+6C | Double | Clear | Clear | 68.87 | 10.51 | 11.75 | 39.54 | 24.59 | 1.93 | 1.54 | 1.97 | 1.6 | 0.34 | 0.27 | 0.34 | 0.28 | 0.539 | 0.47 | 356 |
| | 6 (IGSCDE76-5G) +12A+6C | Double | Clear | Clear | 68.87 | 10.51 | 11.75 | 39.54 | 24.59 | 1.72 | 1.42 | 1.69 | 1.36 | 0.30 | 0.25 | 0.30 | 0.24 | 0.536 | 0.47 | 351 |
| | 6 (IGSCDE76-5G) +15A+6C | Double | Clear | Clear | 68.87 | 10.51 | 11.75 | 39.54 | 24.59 | 1.75 | 1.47 | 1.5 | 1.21 | 0.31 | 0.26 | 0.26 | 0.21 | 0.534 | 0.46 | 349 |
| 7 | 3.2(UGSHDE78-6G) + 12A +3.2C | Double | Clear | Clear | 67.99 | 10.46 | 13.51 | 43.26 | 22.27 | 1.784 | 1.486 | 1.763 | 1.438 | 0.31 | 0.26 | 0.31 | 0.25 | 0.573 | 0.49 | 375 |
| | 6 (UGSHDE78-6G) + 12A +6C | Double | Clear | Clear | 67 | 10.9 | 12.4 | 35.97 | 18.82 | 1.75 | 1.48 | 1.71 | 1.4 | 0.31 | 0.26 | 0.30 | 0.25 | 0.53 | 0.46 | 347 |

Remarks:

1. All Performance values were calculated using the Window 5.2 program based on NFRC 100-2001 conditions.
2. The data and information based on samples tested are not guaranteed for all products.
3. The data are based on IG units with aluminum spacer and Low-e coating on the second surface. Glass surfaces of the IG unit are counted starting from the outside when installed.
4. Argon filling assumes a 90% fill rate (10%air).