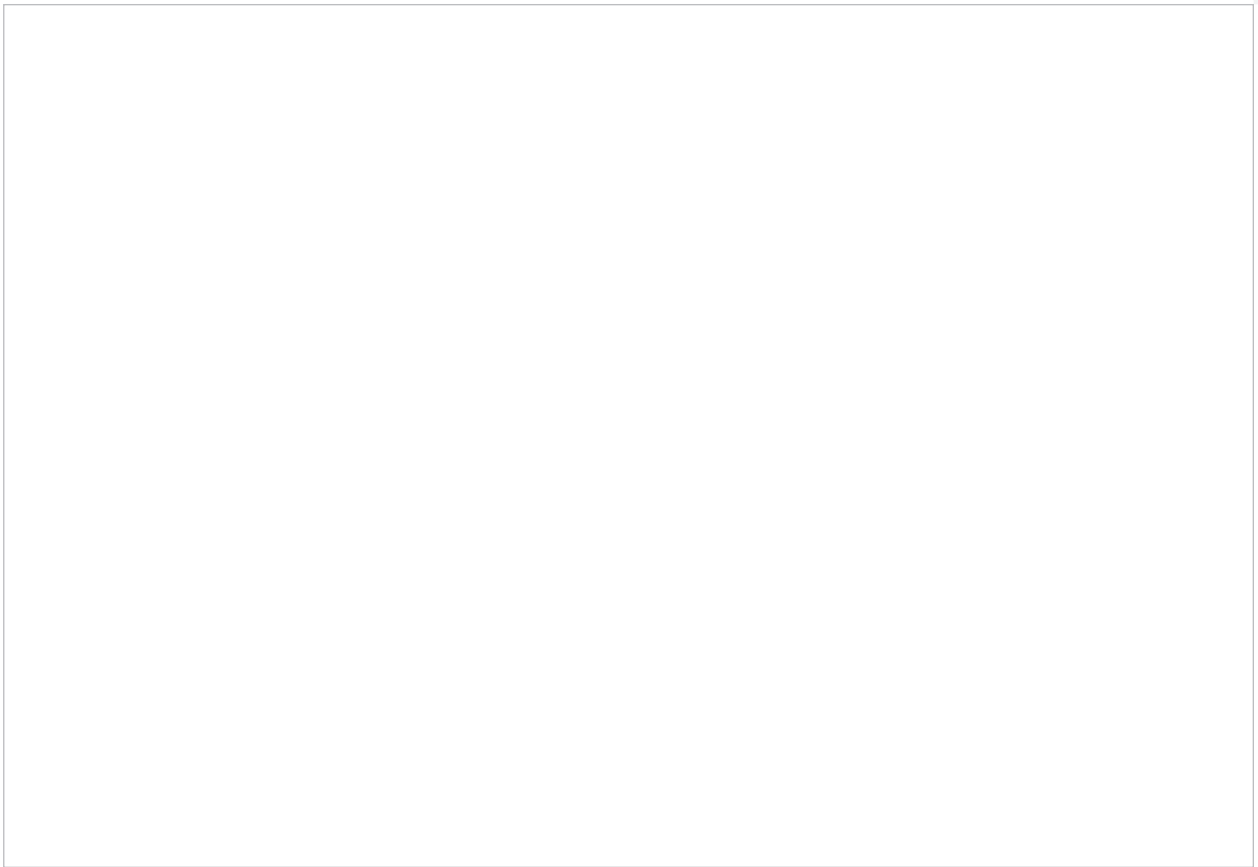


# PANORAMA® STERLING® 40

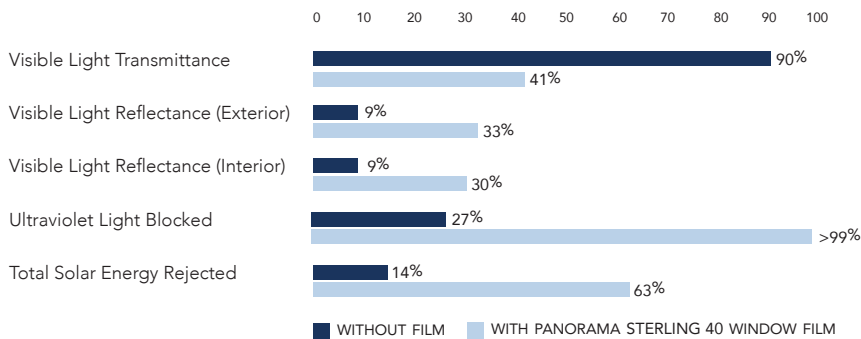


INTERIOR VIEW

## PANORAMA® STERLING® 40

Sterling 40 offers substantial heat and glare reduction, added privacy and adequate natural light. This film is lightly tinted, with a reflective finish inside and outside.

Comparison of performance on 1/8" (3mm) thick clear glass.



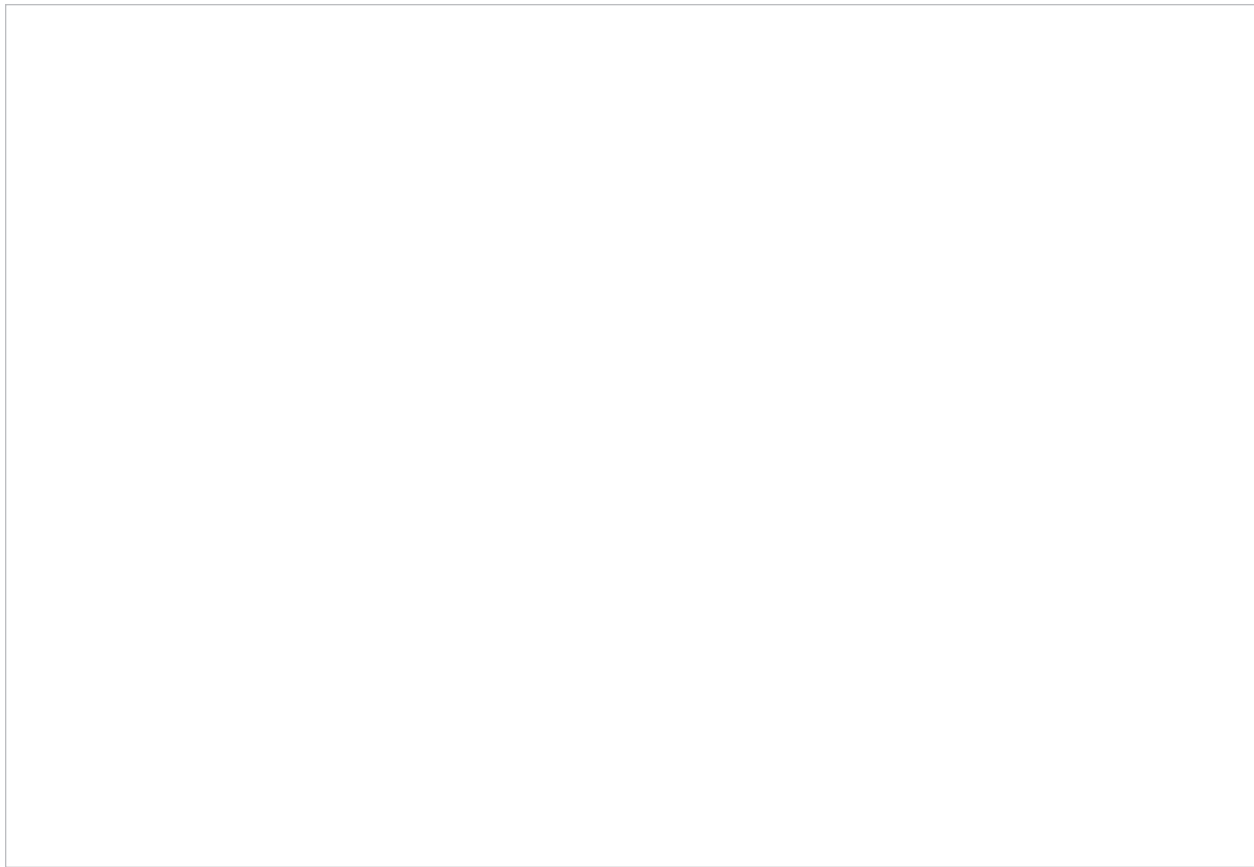
The Sterling Series offers a high level of visible light transmission and solar energy performance, generally with relatively higher reflectance.



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# PANORAMA® STERLING® 40



EXTERIOR VIEW

## Performance Parameters for Different Window Types

|  | 1/8" (3mm) Single clear |             | 1/4" (6 mm) Single clear |             | 1/8" (3mm) Double clear |             | 1/4" (6mm) Double clear |             |
|--|-------------------------|-------------|--------------------------|-------------|-------------------------|-------------|-------------------------|-------------|
|  | No film                 | Sterling 40 | No film                  | Sterling 40 | No film                 | Sterling 40 | No film                 | Sterling 40 |
| <b>Visible light</b>                               |                         |             |                          |             |                         |             |                         |             |
| Transmittance %                                    | 90                      | 41          | 89                       | 41          | 81                      | 38          | 79                      | 37          |
| Reflectance exterior %                             | 9                       | 33          | 9                        | 32          | 16                      | 36          | 15                      | 34          |
| Reflectance interior %                             | 9                       | 30          | 9                        | 30          | 16                      | 31          | 15                      | 31          |
| Glare reduction %                                  | -                       | 54          | -                        | 54          | -                       | 53          | -                       | 53          |
| <b>Solar energy</b>                                |                         |             |                          |             |                         |             |                         |             |
| Transmittance %                                    | 83                      | 28          | 77                       | 26          | 69                      | 24          | 61                      | 22          |
| Absorptance %                                      | 9                       | 34          | 16                       | 41          | 18                      | 42          | 27                      | 51          |
| Reflectance %                                      | 8                       | 38          | 7                        | 33          | 13                      | 34          | 12                      | 27          |
| Total solar energy rejected %                      | 14                      | 63          | 18                       | 62          | 24                      | 56          | 30                      | 56          |
| Infrared rejection @ 780 to 2500 nm % <sup>1</sup> | 20                      | 87          | 28                       | 88          | -                       | -           | -                       | -           |
| Shading coefficient                                | .98                     | .43         | .94                      | .43         | .87                     | .50         | .81                     | .50         |
| Solar heat gain coefficient                        | .86                     | .37         | .82                      | .38         | .76                     | .44         | .70                     | .44         |
| Light to solar heat gain ratio (VLT/SHGC)          | 1.05                    | 1.11        | 1.08                     | 1.07        | 1.08                    | .88         | 1.13                    | .84         |
| Solar heat gain reduction %                        | -                       | 56          | -                        | 54          | -                       | 42          | -                       | 38          |
| <b>Thermal energy</b>                              |                         |             |                          |             |                         |             |                         |             |
| Emissivity   | .84                     | .68         | .84                      | .68         | .84                     | .68         | .84                     | .68         |
| Winter U-factor (Btu hr/ft <sup>2</sup> °F)        | 1.04                    | .95         | 1.02                     | .94         | .48                     | .46         | .47                     | .45         |
| Summer U-factor (Btu hr/ft <sup>2</sup> °F)        | .94                     | .85         | .92                      | .83         | .50                     | .48         | .50                     | .47         |
| Winter heat loss reduction %                       | -                       | 9           | -                        | 8           | -                       | 4           | -                       | 4           |
| <b>Ultraviolet light</b>                           |                         |             |                          |             |                         |             |                         |             |
| Blocked @ 300 to 380 nm %                          | 27                      | >99         | 34                       | >99         | 41                      | >99         | 50                      | >99         |

<sup>1</sup> Infrared rejection = 1 - average unweighted transmittance using ASTM E 903.



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Performance results generated using LBNL Window 7.2 and NFRC standards. For full details and additional information please visit [www.solargard.com/panorama](http://www.solargard.com/panorama).

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