

# PANORAMA® SLATE 30

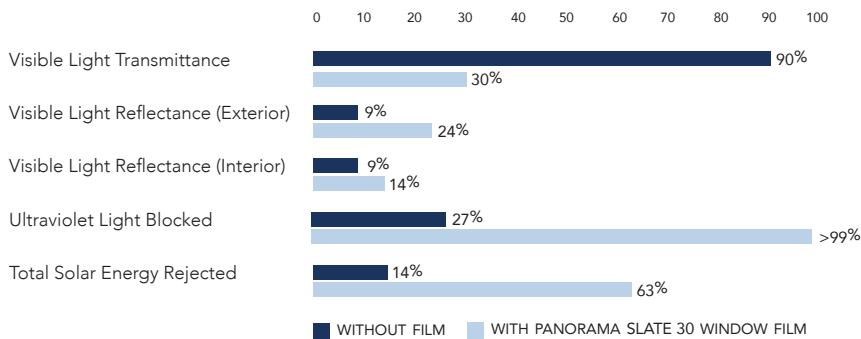


INTERIOR VIEW

## PANORAMA® SLATE 30

Slate 30 offers substantial heat and glare reduction, added privacy and adequate natural light. This film is lightly tinted, hardly noticeable from inside, with a soft reflective finish outside.

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



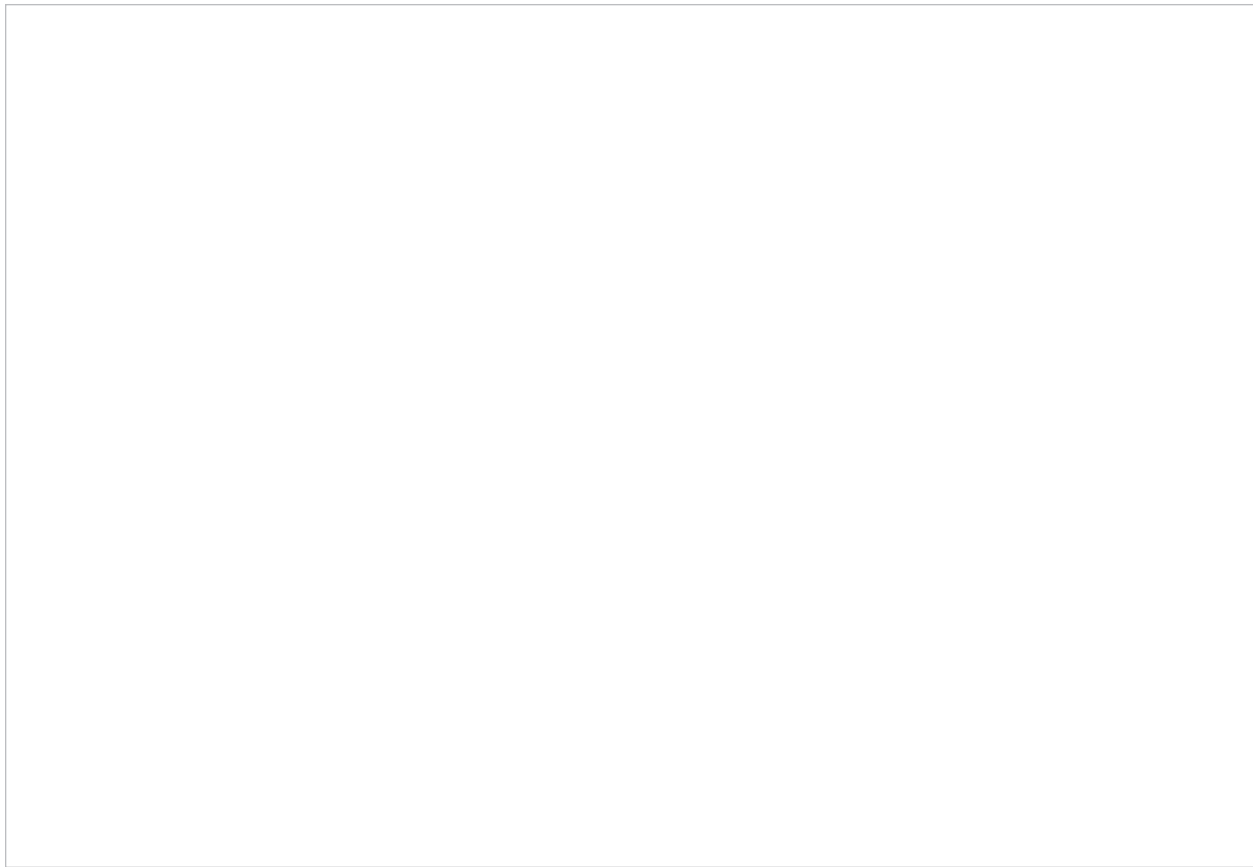
The Dual-Reflective Slate Series offers exceptional solar rejection performance with a more neutral finish. These films maintain views with reduced interior and exterior reflectance, while increasing privacy by day, and offering minimal reflectivity at night. The Slate Series is ideal for applications where glare is a primary consideration.



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# PANORAMA® SLATE 30



EXTERIOR VIEW

## Performance Parameters for Different Window Types

|  | 1/8" (3mm)<br>Single clear |          | 1/4" (6 mm)<br>Single clear |          | 1/8" (3mm)<br>Double clear |          | 1/4" (6mm)<br>Double clear |          |
|--|----------------------------|----------|-----------------------------|----------|----------------------------|----------|----------------------------|----------|
|  | No film                    | Slate 30 | No film                     | Slate 30 | No film                    | Slate 30 | No film                    | Slate 30 |
| <b>Visible light</b>                               |                            |          |                             |          |                            |          |                            |          |
| Transmittance %                                    | 90                         | 30       | 89                          | 29       | 81                         | 28       | 79                         | 27       |
| Reflectance exterior %                             | 9                          | 24       | 9                           | 23       | 16                         | 29       | 15                         | 27       |
| Reflectance interior %                             | 9                          | 14       | 9                           | 14       | 16                         | 15       | 15                         | 15       |
| Glare reduction %                                  | -                          | 67       | -                           | 67       | -                          | 66       | -                          | 66       |
| <b>Solar energy</b>                                |                            |          |                             |          |                            |          |                            |          |
| Transmittance %                                    | 83                         | 23       | 77                          | 21       | 69                         | 19       | 61                         | 17       |
| Absorptance %                                      | 9                          | 48       | 16                          | 54       | 18                         | 53       | 27                         | 60       |
| Reflectance %                                      | 8                          | 29       | 7                           | 25       | 13                         | 28       | 12                         | 23       |
| Total solar energy rejected %                      | 14                         | 63       | 18                          | 62       | 24                         | 53       | 30                         | 53       |
| Infrared rejection @ 780 to 2500 nm % <sup>1</sup> | 20                         | 87       | 28                          | 88       | -                          | -        | -                          | -        |
| Shading coefficient                                | .98                        | .43      | .94                         | .43      | .87                        | .54      | .81                        | .54      |
| Solar heat gain coefficient                        | .86                        | .37      | .82                         | .38      | .76                        | .47      | .70                        | .47      |
| Light to solar heat gain ratio (VLT/SHGC)          | 1.05                       | .80      | 1.08                        | .78      | 1.08                       | .58      | 1.13                       | .57      |
| Solar heat gain reduction %                        | -                          | 56       | -                           | 54       | -                          | 38       | -                          | 33       |
| <b>Thermal energy</b>                              |                            |          |                             |          |                            |          |                            |          |
| Emissivity   | .84                        | .84      | .84                         | .84      | .84                        | .84      | .84                        | .84      |
| Winter U-factor (Btu hr/ft <sup>2</sup> °F)        | 1.04                       | 1.04     | 1.02                        | 1.02     | .48                        | .48      | .47                        | .47      |
| Summer U-factor (Btu hr/ft <sup>2</sup> °F)        | .94                        | .94      | .92                         | .92      | .50                        | .50      | .50                        | .50      |
| Winter heat loss reduction %                       | -                          | 0        | -                           | 0        | -                          | 0        | -                          | 0        |
| <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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