

Optimizing Performance

PPG architectural products can be combined into myriad combinations to satisfy the aesthetic and performance requirements of your projects. The examples shown here illustrate how significantly thermal and optical properties can be influenced by the glass combination chosen.

Diagrams 1-4 illustrate how the performance of a one-inch standard insulating glass unit can be enhanced by substituting a spectrally selective glass, and how even more substantial improvement can be attained by adding other PPG low-e coatings.

Diagrams 5-8 show how visible light transmittance can be adjusted to your specific needs by selecting the right PPG tinted glass in combination with **Solarban® 60** low-e glass.

All diagrams show important solar control values under summer daytime conditions, the time when managing the total solar energy transmission for your HVAC cooling system is the most challenging. The summertime conditions that apply to all of the examples shown are based on NFRC 100-2001 Summer Design Conditions.

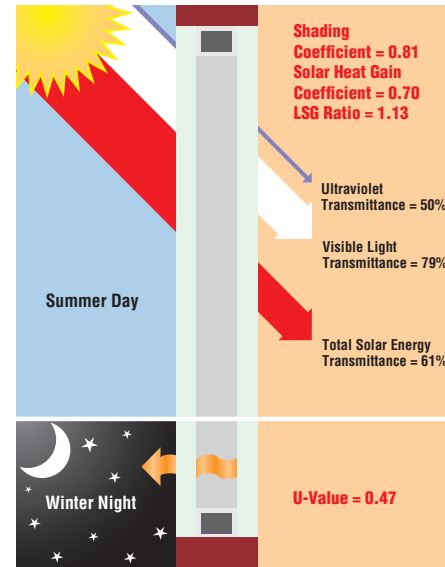
Winter nighttime U-values are shown at the bottom of each I.G. Unit diagram. Winter nighttime conditions for determining U-value are based on NFRC 100-2001 Winter Design Conditions.

The diagrams represent only a few of the many combinations available.

With the broadest glass product line in the industry, PPG is ready to provide the aesthetics you desire and the performance your project demands.

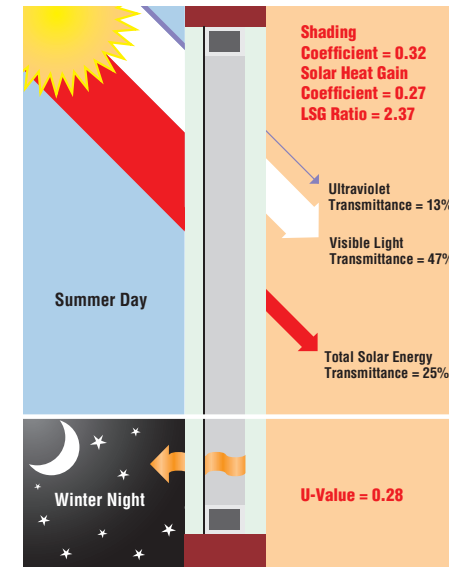
1. The standard...

1/4" Clear /
1/4" Clear I.G. Unit



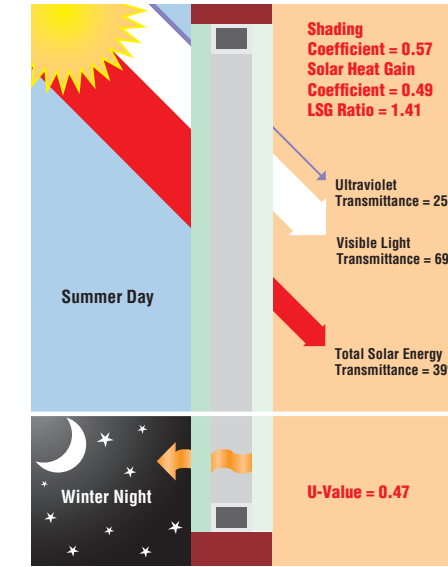
2. The low-e leader...

1/4" Solarban® 70XL /
1/4" Clear I.G. Unit



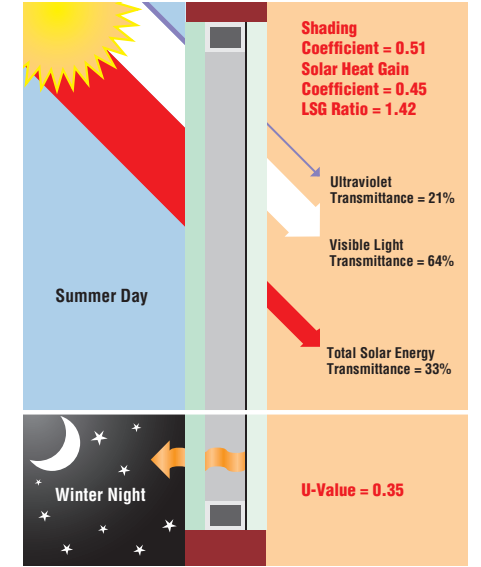
3. Substitute a spectrally selective tinted glass...

1/4" Solexia™ /
1/4" Clear I.G. Unit



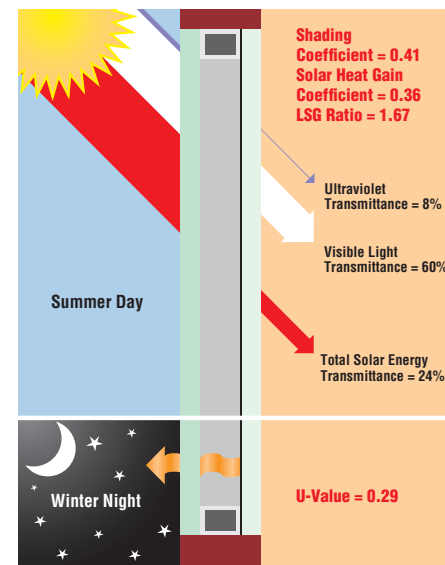
4. Combine with a standard low-e coated glass...

1/4" Solexia™ /
1/4" Sungate® 500 (3) Clear I.G. Unit



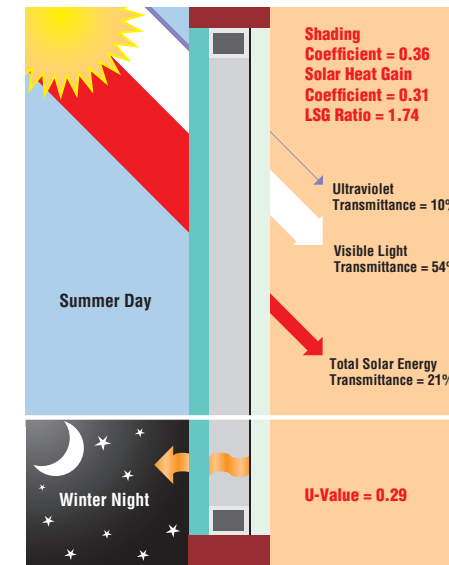
5. Or, combine with the optimum in low-e glasses...

1/4" Solexia™ /
1/4" Solarban® 60 (3) Clear I.G. Unit



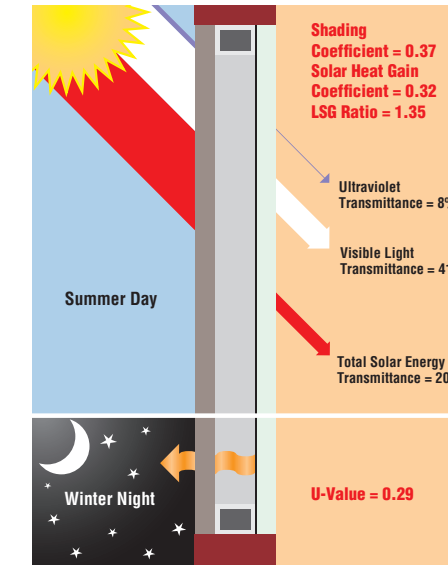
6. Combined with the spectrally selective glass leader...

1/4" Azuria™ /
1/4" Solarban® 60 (3) Clear I.G. Unit



7. Or, combined with a standard tint for glare control...

1/4" Solarbronze® /
1/4" Solarban® 60 (3) Clear I.G. Unit



8. Or, combined with an enhanced gray glass for optimum shading...

1/4" Graylite II /
1/4" Solarban® 60 (3) Clear I.G. Unit

