



Long lasting comfort, savings and aesthetics at a whole new level with 3M™ Sun Control Window Film Prestige Exterior Series.

- ▶ Non-metalized technology applied to film eliminates corrosion, no need to edge seal*, and no signal interference
- ▶ High visual light transmission providing excellent aesthetics
- ▶ Low interior and exterior reflectivity enhances views while maintaining exterior appearance
- ▶ Helps extend the life of furnishings by significantly reducing harmful UV rays, the largest cause of fading
- ▶ The Prestige Exterior Series can become carbon negative in as short as 6 months from install**
- ▶ Comprehensive warranty from 3M

| | |
|----------------------------|-------|
| Exterior Durability | ★★★★★ |
| Visible Light Transmission | ★★★★★ |
| Low Reflection | ★★★★★ |
| Infrared Rejection | ★★★★★ |
| Energy Savings | ★★★★★ |

Best ★★★★★
 Better ★★★★★
 Good ★★★★★
 Fair ★★★★★
 Not Recommended ★

In comparison to other 3M™ Sun Control Window Films

*Edge sealing required if water can pool at the edge of the film
 **Based on emission calculations performed in compliance with the GHG Protocol Product Life Cycle Accounting and Reporting Standard (2011), third party assured by Quality Associates Incorporated, and energy savings calculation completed by CONSOL Energy. Contact 3M for details.

Performance, beauty and durability that metallic films can't match.



Climate Zone 5

Rock and Roll Hall of Fame and Museum

Customer Issues:





- ▶ Looking for protection to valuable exhibits
- ▶ Need for maintaining a cool temperature on sunny days

Results:

- ▶ By improving the ability to block UV rays and improving energy efficiency, this project's expected annual energy savings is approximately \$20,000 to \$40,000



Product Performance and Technical Data

| Glass Type (All 1/4") | Film Type | Visible Light | | | Total Solar Energy Rejected | | Solar Heat Gain Coefficient (G Value) | U Value | | Solar Heat Reduction | UV Light Rejected | Glare Reduction | Visible Light to Solar Heat Gain Ratio |
|--|-----------|----------------------|----------------------|-------------|-----------------------------|-----------------|---------------------------------------|----------|-------|----------------------|-------------------|-----------------|--|
| | | Reflected (Interior) | Reflected (Exterior) | Transmitted | Normal | 60 Degree Angle | | btu/hf°F | w/m²K | | | | |
|  Clear | PR20X | 5% | 5% | 21% | 66% | 72% | 0.34 | 1.02 | 5.82 | 58% | 99.9% | 77% | 0.6 |
| | PR40X | 5% | 6% | 42% | 61% | 68% | 0.39 | 1.02 | 5.8 | 53% | 99.9% | 53% | 1.1 |
| | PR70X | 7% | 7% | 71% | 52% | 61% | 0.48 | 1.02 | 5.8 | 41% | 99.9% | 20% | 1.5 |
| | PR90X | 9% | 9% | 88% | 36% | 45% | 0.64 | 1.02 | 5.8 | 21% | 99.9% | 1% | 1.4 |
|  Tinted | PR20X | 5% | 5% | 13% | 69% | 75% | 0.31 | 1.02 | 5.82 | 52% | 99.9% | 77% | 0.4 |
| | PR40X | 5% | 5% | 25% | 67% | 71% | 0.33 | 1.02 | 5.8 | 47% | 99.9% | 53% | 0.8 |
| | PR70X | 5% | 6% | 42% | 61% | 67% | 0.39 | 1.02 | 5.8 | 39% | 99.9% | 20% | 1.1 |
| | PR90X | 6% | 6% | 53% | 50% | 56% | 0.50 | 1.02 | 5.8 | 21% | 99.9% | 1% | 1.1 |
|  Double Clear | PR20X | 12% | 6% | 18% | 76% | 82% | 0.24 | 0.47 | 2.69 | 66% | 99.9% | 77% | 0.7 |
| | PR40X | 13% | 7% | 37% | 71% | 78% | 0.29 | 0.47 | 2.7 | 59% | 99.9% | 53% | 1.3 |
| | PR70X | 14% | 12% | 63% | 61% | 70% | 0.39 | 0.47 | 2.7 | 45% | 99.9% | 20% | 1.6 |
| | PR90X | 16% | 15% | 78% | 45% | 54% | 0.56 | 0.47 | 2.7 | 21% | 99.9% | 1% | 1.4 |
|  Double Tinted | PR20X | 12% | 5% | 11% | 80% | 84% | 0.20 | 0.47 | 2.69 | 61% | 99.9% | 77% | 0.5 |
| | PR40X | 12% | 6% | 22% | 77% | 82% | 0.23 | 0.47 | 2.7 | 55% | 99.9% | 53% | 1.0 |
| | PR70X | 13% | 7% | 38% | 71% | 75% | 0.29 | 0.47 | 2.7 | 43% | 99.9% | 21% | 1.3 |
| | PR90X | 13% | 9% | 47% | 60% | 64% | 0.41 | 0.47 | 2.7 | 20% | 99.9% | 1% | 1.2 |

LEED Certification

Window films may be used toward the following LEED credits

| | | | | | | | |
|--------|--------------|----------|--------------|--------|--------------|----------|------|
| ▶ SS-8 | ▶ MR 1.1-1.2 | ▶ EQ-7.1 | ▶ EQ-8.1-8.2 | ▶ EA-1 | ▶ MR 5.1-5.2 | ▶ EQ-7.2 | ▶ ID |
|--------|--------------|----------|--------------|--------|--------------|----------|------|

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