



## Enjoy enhanced views, savings and comfort with 3M™ Sun Control Window Film Night Vision™ Series.

- ▶ Great heat rejection helps provide energy savings and improved comfort
- ▶ Enhanced views with low interior reflectivity, especially at night
- ▶ Helps reduce glare and uncomfortable brightness
- ▶ Helps extend the life of furnishings by significantly reducing harmful UV rays, the largest cause of fading
- ▶ Excellent scratch-resistant coating
- ▶ 3M nano-technology enhances color stability
- ▶ Comprehensive warranty from 3M

Energy Savings ★★★★★

Heat Rejection ★★★★★

Glare Reduction ★★★★★

Interior Visible Reflection ★★★★★

Best ★★★★★

Better ★★★★

Good ★★★

Fair ★★

Not Recommended ★

*In comparison to other 3M™ Sun Control Window Films.*

**Save energy by day.  
Enhance views by night.**



## 3M™ Sun Control Window Film Night Vision™ 25 Case Study — Embarcadero Center Climate Zone 3

345,000 sq ft installation of Night Vision 25

Payback period — less than 1 year

Customer issues:

- ▶ High energy costs and consumption
- ▶ Tenant comfort due to direct sun



## Product Performance and Technical Data

| Glass Type<br>(All 1/4") | Film Type       | Visible Light           |                         |             | Total<br>Solar Energy<br>Rejected | Solar<br>Heat Gain<br>Coefficient<br>(G Value) | U Value       |           | Solar Heat<br>Reduction | UV Light<br>Rejected | Glare<br>Reduction | Visible Light<br>to Solar Heat<br>Gain Ratio |
|--------------------------|-----------------|-------------------------|-------------------------|-------------|-----------------------------------|--|---------------|-----------|-------------------------|----------------------|--------------------|--|
|                          |                 | Reflected<br>(Interior) | Reflected<br>(Exterior) | Transmitted |                                   |  | btu/<br>hft²F | w/<br>m²K |                         |                      |                    |  |
| Clear                    | Night Vision 15 | 9%                      | 35%                     | 13%         | 72%                               | 0.28   | 0.99          | 5.6       | 66%                     | 99.9%                | 85%                | 0.5  |
|                          | Night Vision 25 | 9%                      | 24%                     | 24%         | 63%                               | 0.37   | 1.01          | 5.7       | 52%                     | 99.9%                | 73%                | 0.6  |
|                          | Night Vision 35 | 7%                      | 14%                     | 33%         | 54%                               | 0.46   | 1.03          | 5.8       | 41%                     | 99.9%                | 63%                | 0.7  |
| Tinted                   | Night Vision 15 | 9%                      | 16%                     | 8%          | 69%                               | 0.31   | 0.99          | 5.6       | 52%                     | 99.9%                | 85%                | 0.3  |
|                          | Night Vision 25 | 9%                      | 12%                     | 14%         | 64%                               | 0.36   | 1.01          | 5.7       | 43%                     | 99.9%                | 73%                | 0.4  |
|                          | Night Vision 35 | 7%                      | 8%                      | 20%         | 59%                               | 0.41   | 1.03          | 5.8       | 33%                     | 99.9%                | 63%                | 0.5  |
| Double Clear             | Night Vision 15 | 9%                      | 37%                     | 12%         | 60%                               | 0.40   | 0.47          | 2.6       | 43%                     | 99.9%                | 85%                | 0.3  |
|                          | Night Vision 25 | 10%                     | 28%                     | 22%         | 53%                               | 0.47   | 0.47          | 2.7       | 29%                     | 99.9%                | 73%                | 0.5  |
|                          | Night Vision 35 | 8%                      | 19%                     | 30%         | 46%                               | 0.54   | 0.47          | 2.7       | 21%                     | 99.9%                | 63%                | 0.6  |
| Double Tinted            | Night Vision 15 | 9%                      | 16%                     | 7%          | 68%                               | 0.32   | 0.47          | 2.6       | 37%                     | 99.9%                | 85%                | 0.2  |
|                          | Night Vision 25 | 10%                     | 13%                     | 13%         | 64%                               | 0.36   | 0.47          | 2.7       | 27%                     | 99.9%                | 73%                | 0.4  |
|                          | Night Vision 35 | 8%                      | 10%                     | 18%         | 59%                               | 0.41   | 0.47          | 2.7       | 19%                     | 99.9%                | 63%                | 0.4  |

## 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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