

Design Criteria for Window Tinting

Approved March 26, 2009

Window tinting has been approved for Ocean Pointe. The tint grades that have been approved are 3M's Prestige Series PR50, PR60, and PR70. For single family homes all windows on the corresponding side of home must be tinted. For townhomes all units of the corresponding building must agree to have their windows tinted. No one unit alone can tint their windows.

Ocean Pointe
Window Film Graphic Design Guideline
July 26, 2005

General

Window Film shall be compatible with the original window system(s) provided in the original maintenance, performance and durability requirements. In no case shall Graphics Window Film alter the basic properties of the original window system(s) that provide for specific performance warranties.

Approved product and style include **Llumar Window Film (NRM PS2), Frosted** or others as approved by the DRC that meet the requirement of these guidelines or amendments. DRC reserves the right to modify these guidelines at its sole discretion. All film must be the same manufacturer and product.

Permitted Location(s) & Design

Graphic Window Film may **not** be installed on the large picture windows on the fronts or back of homes. Graphic Window Film shall only include **floral** design graphics.

Durability & Performance

All window systems shall be Scratch-Resistant on the interior surface and shall not utilize pressure-sensitive adhesive. Only water activated “CDF” (Clear Distortion Free) type dry-adhesive is allowed.

Evidence that the Graphic Window Film does not alter the basic properties provided by the window system shall include (Window Film) manufacturer’s backed Lifetime Warranty on material & labor and have (Window Film) manufacturer’s extended warranty that replaces the window manufacturer’s original warranty of the dual glazing unit against any future failures. This warranty must replace the terms and conditions of the original window warranty verbatim.

Installation & Maintenance

Graphic Window Film shall be installed without visible defects, bubbling, wrinkling or other imperfections. Home Owner is responsible for replacing any defective material due to installation or maintenance at the sole cost of Home Owner. Replacement must match the original manufacturer, style, color and other specifications. Should replacement film not be available, Home Owner is responsible for replacing all Window Film.



Sun Control Window Films

*prestige
window films*



PRESTIGE SERIES

PR 50

CLEARLY SUPERIOR



PR 50 Benefits:

- Substantial heat rejection provides energy savings and enhanced comfort, combined with a modestly tinted film
- Increased on-angle heat rejection provides additional performance benefits
- Low reflection enhances views and overall beauty
- Non-metallized; 3M technology provides superior performance with no corrosion or interference with cell phone signals
- Extends the life of furnishings by rejecting UV rays, the single largest component of fading
- Premium 3M manufacturer's warranty
- Reduces glare and eye discomfort
- Increases personal safety by minimizing flying glass

Performance Results:

Visible Light Transmitted	50%
Total Solar Energy Rejected	56%
— On Angle	63%
Infrared Rejected	97%
Visible Light Reflected Int.	7%
Visible Light Reflected Ext.	8%
UV Rejected	99.9%
Glare Reduction	44%
Luminous Efficacy	1.1

Performance data generated for a typical film on 6mm glass using applicable industry test methods and standards. Infrared rejection measured from 900nm–1000nm.

Interior View



The Skin Cancer Foundation recommends this 3M Window Film product as an effective UV protectant.

PRESTIGE SERIES

PR 50

CLEARLY SUPERIOR



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window films*



Glass Type (All 1/4")	Single Pane Clear	Single Pane Tinted	Double Pane Clear	Double Pane Tinted
Visible Light Transmitted	50%	30%	45%	27%
Total Solar Energy Rejected	56%	61%	47%	60%
— On Angle	63%	66%	53%	64%
Infrared Rejected	97%	97%	97%	97%
Visible Light Reflected Int.	7%	6%	9%	9%
Visible Light Reflected Ext.	8%	6%	15%	8%
UV Rejected	99.9%	99.9%	99.9%	99.9%
Glare Reduction	44%	43%	44%	44%
SHGC	0.44	0.39	0.53	0.40
U Value	0.99	0.99	0.47	0.47
Luminous Efficacy	1.1	0.8	0.8	0.7

Performance data generated for a typical film on 6mm glass using applicable industry test methods and standards. Infrared rejection measured from 900nm–1000nm.



Renewable Energy Division

3M Center, Building 235-2S-27
St. Paul, MN 55144-1000



Exterior View

PRESTIGE SERIES

PR 60

CLEARLY SUPERIOR



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PRESTIGE SERIES

PR 60

CLEARLY SUPERIOR



Glass Type (All 1/4")	Single Pane Clear	Single Pane Tinted	Double Pane Clear	Double Pane Tinted
Visible Light Transmitted	60%	36%	54%	32%
Total Solar Energy Rejected	53%	59%	46%	59%
— On Angle	61%	63%	54%	64%
Infrared Rejected*	97%	97%	97%	97%
Visible Light Reflected Int.	8%	7%	11%	10%
Visible Light Reflected Ext.	8%	6%	15%	8%
UV Rejected	99.9%	99.9%	99.9%	99.9%
Glare Reduction	32%	32%	32%	32%
Solar Heat Gain Coefficient	0.47	0.41	0.54	0.41
U Value	0.99	0.99	0.47	0.47
Luminous Efficacy	1.3	0.9	1.0	0.8

*See reverse



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Exterior View



The Skin Cancer Foundation
recommends this 3M Window Film
product as an effective UV protectant.

Interior View



PR 60 Benefits:

- Substantial heat rejection provides energy savings and enhanced comfort, combined with a clear film
- Increased on-angle heat rejection provides additional performance benefits
- Low reflection enhances views and overall beauty
- No metals; 3M technology provides superior performance with no corrosion or interference with cell phone signals
- Extends the life of furnishings by rejecting UV rays, the single largest component of fading
- Premium 3M manufacturer’s warranty
- Reduces glare and eye discomfort
- Increases personal safety by minimizing flying glass

Performance Results:

Visible Light Transmitted	60%
Total Solar Energy Rejected	53%
— On Angle	61%
Infrared Rejected*	97%
Visible Light Reflected Int.	8%
Visible Light Reflected Ext.	8%
UV Rejected	99.9%
Glare Reduction	32%
Luminous Efficacy	1.3

Performance data generated for a typical film on 6mm glass using applicable industry test methods and standards.

*Infrared rejection measured as film only from 900nm–1000nm.



Sun Control Window Films

*prestige
window films*



PRESTIGE 70

CLEARLY SUPERIOR



Prestige 70 Benefits:

- Substantial heat rejection provides energy savings and enhanced comfort, combined with a clear film
- Increased on-angle heat rejection provides additional performance benefits
- Low reflection enhances views and overall beauty
- No metals; 3M technology provides superior performance with no corrosion or interference with cell phone signals
- Extends the life of furnishings by rejecting UV rays, the single largest component of fading
- Premium 3M manufacturer's warranty
- Reduces glare and eye discomfort
- Increases personal safety by minimizing flying glass

Performance Results:*

Visible Light Transmitted	69%
Total Solar Energy Rejected	50%
TSER—On 60° Angle	59%
Infrared Rejected	97%
Visible Light Reflected Int.	9%
Visible Light Reflected Ext.	10%
UV Rejected	99.9%
Glare Reduction	23%
Luminous Efficacy	1.19

*Performance based upon 1/4" clear glass

PRESTIGE 70

CLEARLY SUPERIOR



*prestige
window films*



Glass Type (All 1/4")	Single Pane Clear	Single Pane Tinted	Double Pane Clear	Double Pane Tinted
Visible Light Transmitted	69%	41%	61%	37%
Total Solar Energy Rejected	50%	57%	44%	58%
Total Solar Energy Rejected — On 60° Angle	59%	63%	50%	62%
Infrared Rejected	97%	97%	97%	97%
Visible Light Reflected Int.	9%	8%	13%	12%
Visible Light Reflected Ext.	10%	6%	16%	9%
UV Rejected	99.9%	99.9%	99.9%	99.9%
Glare Reduction	23%	23%	23%	22%
Shading Coefficient	.58	.50	.64	.48
Emissivity	.78	.78	.78	.78
U Value	.99	.99	.46	.46
Luminous Efficacy	1.19	.82	.95	.77



Building Safety Solutions Department

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