

3M Science.
Applied to Life.™

Climate Control



Virtually invisible insulation. Enhance comfort and efficiency year round with 3M™ Thinsulate™ Window Film Climate Control.

- ▶ Helps provide increased insulation performance, much like upgrading single pane to double pane and double pane to triple pane windows
- ▶ Helps improve comfort during cold winter months
- ▶ Heat rejection helps provide comfort and energy savings in summer months
- ▶ High visible light transmission film with a neutral appearance that helps maintain the building's existing appearance
- ▶ Helps extend the life of furnishings by significantly reducing harmful UV rays, the largest cause of fading
- ▶ Comprehensive warranty from 3M

Visible Light Transmission ★★★★★

Winter Insulation ★★★★★

Year Round Comfort ★★★★★

Best ★★★★★

Better ★★★★

Good ★★★

Fair ★★

Not Recommended ★

In comparison to other 3M™ Window Films

GLAZING FILMS LTD
Insulate | Protect | Enhance | Create

Thinsulate, insulation for your windows.



Valued Associations and Alliances:



CLINTON CLIMATE INITIATIVE



Climate Zone 6

Historic Minnesota Governor's Residence
1,000 sq ft installation of 3M™ Thinsulate™
Window Film Climate Control





Customer Issues:

- ▶ Historic property that could not change the look of the building
- ▶ Single pane windows, caused cold, drafty areas
- ▶ Needed to meet state energy savings goals

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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		Heat Loss Reduction	Heat Gain Reduction	UV Light Rejected	Glare Reduction	Visible Light to Solar Heat Gain Ratio
		Reflected (interior)	Reflected (exterior)	Transmitted			btu/ hft²F	w/ m²K					
 Clear	ICM 1352	10%	7%	36%	59%	0.41	0.63	3.6	39%	50%	99.8%	59%	0.9
	ICM 1667	12%	15%	74%	47%	0.53	0.63	3.6	40%	35%	99.9%	17%	1.4
 Tinted	ICM1352	9%	5%	22%	67%	0.33	0.63	3.6	39%	48%	99.9%	59%	0.6
	ICM 1667	10%	8%	44%	60%	0.40	0.63	3.6	40%	37%	99.9%	17%	1.1
 Double Clear	ICM 1352	11%	14%	32%	54%	0.46	0.35	2.0	26%	34%	99.8%	59%	0.7
	ICM 1667	17%	21%	66%	49%	0.51	0.35	2.0	26%	27%	99.9%	16%	1.3
 Tinted Clear	ICM 1352	11%	8%	19%	66%	0.34	0.35	2.0	26%	33%	99.9%	59%	0.6
	ICM 1667	15%	10%	40%	63%	0.37	0.35	2.0	26%	27%	99.9%	15%	1.1

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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98-0150-0845-5