

PARAGON

WINDOW TINTING, SIGNAGE & GRAPHICS



**3M PRESTIGE PR70
WINDOW FILM
APARTMENT
CASE STUDY**

PARAGON WINDOW TINTING CREATES A SOLUTION TO AN UNBEARABLE PROBLEM WITH 3M™ PRESTIGE WINDOW FILM.

CASE STUDY:

3M PRESTIGE PR70 WINDOW FILM.

The latest technology in the 3M Sun Control film range - A 'clear' heat, glare and fade control solution.

The owner of an apartment in Sydney's North Shore approached Paragon with an unbearable problem. It is often seen in residential and also commercial building apartments governed by strict strata guidelines and body corporate rulings.

PROBLEM:

HEAT WAS BUILDING THROUGHOUT THE DAY ALL YEAR ROUND.

This was intensified in summer afternoons as the direct heat in the stairwell was unbearable. Fading was the other issue as the sun streamed in on the new floorboards. In order to combat the heat & damaging UV rays of the sun, the blinds would have to be drawn all afternoon.

This would compromise the view & defeat the purpose of having glass installed in this area. The air conditioning was running at full capacity, but in the hotter months could not keep up with the constant heat entering the building through the fixed windows in the stairwell.

The owner of the apartment did not want to change the external look of the building, and also wanted to apply film only to the stairwell which had the heat issue. Traditional window films are either dark or highly reflective and also change the external appearance of the building giving a 'patchwork' effect if some areas are tinted and other areas not.

SOLUTION:

3M PRESTIGE PR70 FILM WAS THE OBVIOUS CHOICE.

As it uses innovative Multi-layer Optical Film technology, to provide a window film product with a clear appearance and a host of advantages. Enhanced on angle performance, high IR reduction, superior clarity, along with no chance of corrosion and no signal interference are among the benefits.

3M Prestige PR70 film gives low reflectivity along with an optimized balance of performance and natural light. While essentially not changing the external appearance of the building, it reduces 97% of Infrared Heat which accounts for 50% of all heat, 23% of glare and 99.98% of UV rays.

The 3M Prestige Series marks a significant technological advancement in how window films can enhance buildings and homes. Residential and commercial property owners now have a high performance clear window film that combines all the benefits of heavily-tinted or reflective films, without the inherent drawbacks of darkened rooms or mirrored windows.

Prestige films actually have 1% higher reflectivity than the glass they cover, so the appearance of your building is virtually unchanged.



Before and After PR70

RESULTS:

PARAGON PERFORMED THE INSTALLATION (60 WINDOWS)

In a way which resulted in virtually no disruption to the owner in a straight-forward and trouble free installation within one working day. The results were immediately noticeable .With the air conditioning running at a lower level, the savings in energy costs in summer would be genuinely substantial.

BENEFITS:

- Avoid heavy window coverings
- Great heat rejection provides energy savings and improved comfort
- A warm natural hue invites warmth and beauty to any room
- Protects skin and extends the life of furnishings by significantly reducing UV rays, the largest cause of fading
- Low interior and exterior reflectivity, enjoying clearer views
- New 3M nano-technology enhances colour stability
- Reduces glare and eye discomfort
- Comprehensive 3M manufacturer's warranty
- Increases personal safety from flying glass
- Superior scratch resistant coating
- Glass appearance is virtually unchanged once the film is applied



3M PRESTIGE SERIES

PERFORMANCE DATA

	PP50 SOLAR	PP60 SOLAR	PP70 SOLAR	PPE40 SOLAR
Total Solar Energy Rejected (Heat)	56%	53%	50%	61%
Visible Light Transmitted	50%	60%	69%	42%
Visible Light Reflected (External)	8%	8%	8%	6%
Ultra Violet Rejected	99.9%	99.9%	99.9%	99.9%
Shading Coefficient	N/A	N/A	N/A	N/A
SHGC	0.44	0.47	0.44	0.39
U-Value - (W/m ² K)	5.6	5.6	5.6	5.79
Glare Reduction	44%	32%	44%	53%
Solar Energy Reflected	N/A	N/A	N/A	N/A
Solar Energy Absorbed	N/A	N/A	N/A	N/A
Estimated Fade Reduction*	N/A	N/A	N/A	N/A

APPLIED TO 6MM CLEAR GLASS