

# ROBSON WINDOW TINTING

0418 295 908

## 3M SCOTCHSHIELD ULTRA 600 FILM SPECIFICATIONS

- 3M Scotchshield ULTRA600 is one of 3M's patented micro-layered polyester security films, offering significantly more tear and penetration resistance strength than PET films of similar thickness
- Resistance to tearing is proportional to film thickness. Thicker films performed better than thinner films. For the same hazard level, film thickness did not seem to influence glass fragment retention. In general, fragment loss is less than 25% and in most cases less than 10%.
- Daylight application of safety film provides a significant reduction in penetrating hazards from glass shards compared with plain annealed glass.
- Anchored films with batten strips provide a substantial degree of blast resistance and can eliminate glass fragment hazards at significant blast pressures. Above the Break Safe damage level, safety film mitigates the glass hazard.
- The difference in peak pressure for Break Safe and High Hazard damage levels is not substantial in most cases. This indicates that when the anchorage fails, a High Hazard condition will likely exist.
- The 3M Ultra films use a multi layered approach and perform better than other films of the same thickness.

RWT uses the varying features and advantages of these and other films to provide the optimum solution for the clients needs.

<u>Film Specifications</u>				
	<u>S'Screen195</u>	<u>200 Micron</u>	<u>3M Ultra 400</u>	<u>3M Ultra 600</u>
Film Thickness	355 microns	200 microns	102 microns	150 microns
Multiple Layers				39
Young's Modulus*	500,000 psi	500,000 psi	>500,000psi	500,000 psi
Tensile Strength*	30,000	30,000	30,000	30,000
Break Strength	406 lb/in <sup>2</sup>	232 lb/in <sup>2</sup>	120 lb/in <sup>2</sup>	180 lb/in <sup>2</sup>
Graves Tear	37.8	21.6		19.2
Puncture Strength	230	140		98
Human Impact*	Grade A	Grade A	Grade A	Grade A
Elongation*	<100 %	<100 %	<100 %	<100 %
Peel Strength*	<2,500	<2,500	<2,500	<2,500
Abrasion Resistance*	<5 %	<5 %	< 5 %	<5 %
Smoke Development Index	142	28		29
GSA Security Criteria (daylight)	3B	3B		3B

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