

Filmshield UK Bomb-Blast test

Filmshield UK working in association with Anglian Technical Window Films have recently become one of the first companies to undertake bomb-blast protection testing to a new draft international safety glazing standard. ISO draft 16933 Glass in building Explosion Resistant Security Glazing.



The standard is shortly to become the internationally recognised specification for those who have a requirement to provide the highest level of security and protection to glazing in particularly high-risk areas. The exercise, carried out by explosive testing specialists Advantica at their facility at RAF Spadeadam in Cumbria involved subjecting a fully glazed window to an explosive blast equivalent to 100kg of TNT at a distance of 31 metres.

The window provided by Anglian featured 6mm float glass protected with Anglian 175 micron multi-laminate security film secured into the frame with a specialist edge retention system. Following conclusion of the testing the Anglian film and combined edge retention system achieved a classification in accordance with ISO and UK Home Office Scientific Development Branch standards and an equivalent Level 3A GSA standard of Low Hazard and High Protection.

Steve Rice as Glazing Director of the UK glass and Glazing Federation commended the Anglian Film and edge retention combination as 'a significant achievement in the development of glazing safety and security products.'

Test carried out on safety window film to stop the hazard of flying glass.

Product Warranty

Anglian Technical Window Films Safety & Security Window Films are available with a 10 year Warranty against peeling, cracking, delaminating and demetalising when supplied and installed only by an Anglian "Approved Installer" and we are pleased to confirm that Filmshield UK Ltd are fully accredited and recognised as an Anglian 'Approved Installer' Company.

FILMSHIELD UK IN ASSOCIATION WITH ANGLIAN clear anti-shatter blast mitigation safety & security window films Anglian Clear 2/Ply 175micron (7mil) Laminate Anti-Shatter Blast Mitigation Safety & Security Window Film has been tested and certified to the following Standards

Impact Tests:

- British Standard BS6206 Class A
- European Standard BS EN 12600 Class 1B1
- American National Standard ANSI Z97.1 Class A
- European Standard BS EN 356:2000 Class P2A Laminate Glass
- European Standard BS EN 356:2000 Class P1A Float/Annealed Glass

Performance/Fenestration Data:

- | | | |
|--------------------------------|-------------------------------------|-------------------------|
| • Peel Strength (after curing) | 3250 gms/inch | Test Method: FTM-3 |
| • Tensile Strength | 2000 kg/cm ² (PSI 28446) | Test Method: ASTM-D-882 |
| • Breaking Load (MD) | 40 kg/cm (width) | Test Method: ASTM-D-882 |
| • Elongation at Break (MD) | 170% | Test Method: ASTM-D-882 |

Anglian Combination Solar Reflective 4/Ply 212micron (8.5mil) Laminate Anti-Shatter Blast Mitigation Safety & Security Window Film has been tested and certified to the following Standards

Impact Tests:

- British Standard BS6206 Class A
- European Standard BS EN 12600 Class 1B1
- American National Standard ANSI Z97.1 Class A
- European Standard BS EN 356:2000 Class P2A Laminate Glass
- European Standard BS EN 356:2000 Class P1A Float/Annealed Glass

Performance/Fenestration Data:

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| • Peel Strength (after curing) | 3250 gms/inch | Test Method: FTM-3 |
| • Tensile Strength | 2000 kg/cm ² (PSI 28446) | Test Method: ASTM-D-882 |
| • Breaking Load (MD) | 40 kg/cm (width) | Test Method: ASTM-D-882 |
| • Elongation at Break (MD) | 170% | Test Method: ASTM-D-882 |

Products have been specified for many projects both in the UK and around the World including:

- UK Home Office / Ministry of Defence / British Council / Foreign & Commonwealth Office / HSBC / UN / CNN