

SAFETY AND SECURITY WINDOW FILM

Safety & Security Window Film Range

Clear protective films for internal and external glazing, from everyday impact-safety upgrades to heavier security

TRADE ORDERING

Ordering varies by product. Safety 100, Security 200 and External Safety 100 are available by the metre on selected widths with a 3m minimum, as well as full rolls. Security 300 is supplied as 152cm x 15m or 30m full rolls only.



The range is designed to help hold broken glass together after impact, reducing the risk of dangerous shards and supporting safer glazing upgrades. The correct grade depends on the required level of protection, certification, installation side and available roll format.

SAFETY 100**100 micron / 4mil**

Internal application. EN 12600 2B2. 10-year internal warranty.

SECURITY 200**200 micron / 8mil**

Internal application. EN 12600 1B1. 10-year internal warranty.

SECURITY 300**300 micron / 12mil**

Heavy-duty internal security film. BS 6206 Class A and EN 12600 1B1.

EXTERNAL SAFETY 100**100 micron / 4mil**

External application where internal fitting is unsuitable. 5-year warranty.

FINISH

Clear

COMPOSITION

PET

MAINTENANCE

Wait 1 month

TRADE USE

Confirm glazing

INTERNAL SAFETY AND SECURITY FILMS

Performance comparison

Optical and solar values are based on the source product sheets for film applied to clear 3mm glass. The secondary rejection figure refers to double glazing 4-16-4.

Performance property	Safety 100	Security 200	Security 300
Nominal grade	100 micron / 4mil	200 micron / 8mil	300 micron / 12mil
Visible light transmission	85%	83%	83%
Visible light reflection	11%	10%	10%
UV transmission / rejection	5% transmission	5% transmission	96% rejected
Total solar energy transmitted	77%	76%	74%
Total solar energy reflection	9%	10%	11%
Total solar energy absorption	14%	14%	15%
Total solar energy rejected	19%	20%	22%
Double-glazing rejection*	19%	21%	Not stated
Solar glare reduction	14%	15%	Not stated
g-value	0.83	0.82	Not stated
u-value	5.7	5.7	Not stated
Shading coefficient	0.9	0.9	Not stated

Supply and certification

Product	Ordering options	Application	Certification / warranty
Safety 100	76, 90, 122 and 152cm by metre or 30m roll; 183cm full roll only. 3m minimum by metre.	Internal	EN 12600 2B2; 10 years
Security 200	90, 122, 152 and 183cm by metre or 30m full roll. 3m minimum by metre.	Internal	EN 12600 1B1; 10 years
Security 300	152cm x 15m or 30m full rolls only.	Internal	BS 6206 Class A; EN 12600 1B1; 10 years

Note: Product names use nominal micron grades. The original Safety 100 and Security 200 source sheets state total thicknesses of 120 and 240 micron respectively.

HEAVY-DUTY SECURITY FILM

Security Window Film 300

A clear 300 micron / 12mil film designed to improve glass retention after impact and resist forced-entry and smash-and-grab risks.

TRADE ORDERING

Full rolls only: supplied in 152cm width as either a 15m or 30m roll. Choose the roll length and number of rolls required.

THICKNESS

**300 micron
12mil**

WARRANTY

**10 years
internal**

FINISH

Clear

EXTERNAL FIT

Not recommended

Property	Value
Tensile strength at break	28,000 psi
Break strength	336 lb/inch
Elongation at break	125%
Peel strength	7 lb/inch
Visible light transmitted	83%
Visible light reflected	10%
Total solar energy transmitted	74%
Total solar energy reflected	11%
Total solar energy absorbed	15%
Ultra violet light rejected	96%
Total solar energy rejected	22%
Scratch-resistant coating	Yes

Compatibility and application

Suitable glazing

Clear and tinted single or double glazing, laminated glass and Georgian wired glass are marked as suitable on the supplied product data. Always confirm the final glass make-up and site conditions before installation.

Security application advice

The film is intended to improve glass retention and delay immediate access after impact. It should be specified and fitted by competent trade installers according to the glazing type, frame condition and required security outcome.

EXTERNAL SAFETY FILM

External Safety Window Film 100

A clear externally applied safety film for glazing where an internal installation is impractical.

TRADE ORDERING

Available by the metre or as full rolls: 122cm, 152cm and 183cm widths. A 3m minimum applies to per-metre orders; full rolls are 30m.

APPLICATION**External****WARRANTY****5 years****FINISH****Clear****THICKNESS****120 micron
source sheet**

Technical performance

Performance property	Value
Ultraviolet transmission	5%
Visible light transmission	85%
External / internal visible reflection	11% / 11%
Total solar energy rejected	19%
Double-glazing rejection*	19%
Solar energy reflection / absorption / transmission	9% / 14% / 77%
Solar glare reduction	14%
g-value / u-value / shading coefficient	0.83 / 5.7 / 0.9
Composition / finish	PET / transparent

COMPATIBILITY

The supplied compatibility chart marks clear, tinted and reflective-tinted single and double panes, gas-filled Low-E units and STADIP clear double panes as suitable. Confirm the final glazing construction and site conditions before fitting.

EXTERNAL FITTING AND CARE

Use a compatible exterior-grade installation system and seal edges where specified. Do not clean newly installed film for at least one month. The source sheet lists fire-resistance rating M1 and storage guidance of -5 C to +40 C.