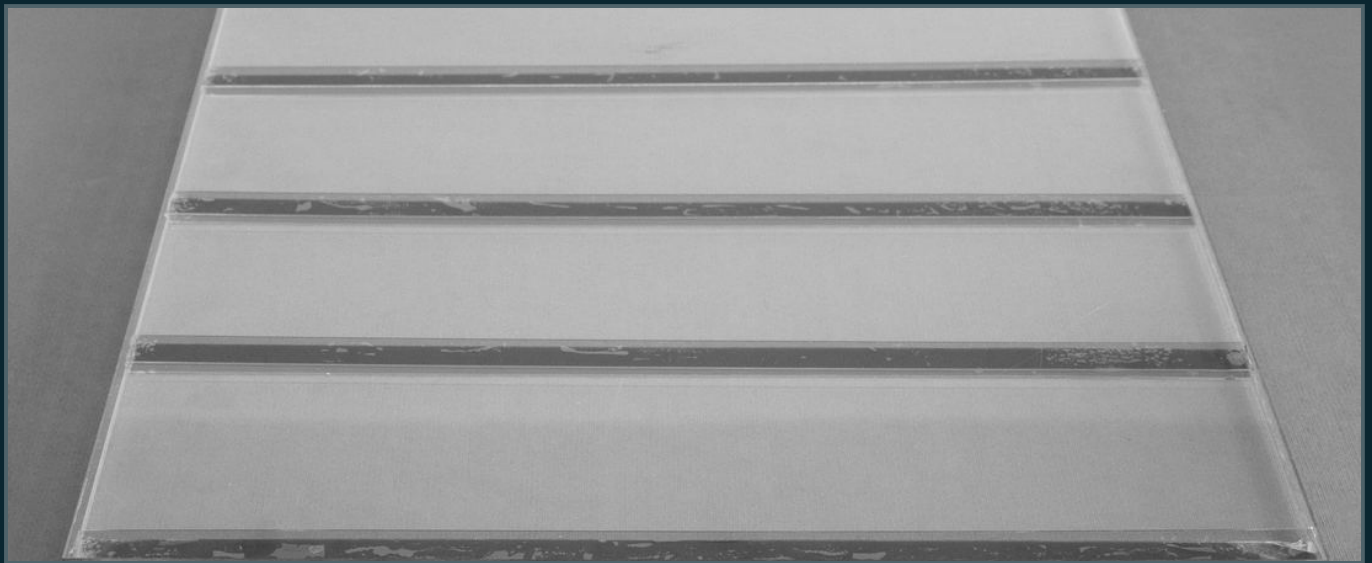


FTL 300 · FTL 600

Transparent Security Laminate

A bonded PET security laminate applied to existing glass. It does not replace the pane — it holds it together. The same high-tensile laminate Fortis builds into its certified ballistic glazing composites, supplied here as a retrofit anti-break-in and anti-vandal layer.

**4**

CONFIGURATIONS

≤1mm

ADDED THICKNESS

30min

PER PANE

0

STRUCTURAL CHANGES

FOUR CONFIGURATIONS

Graduated by threat level. Same base technology.

Every configuration uses the same FTL 300 and FTL 600 laminates in different combinations. Solution 03 is the campus-wide standard. Solution 04 is reserved for the highest-priority glazing — main lobbies, principal offices and glazing facing a public road.

CONFIGURATION	BUILD-UP	WHAT IT DOES	SPECIFY FOR
ENTRY-LEVEL 01 Impact & Anti-Vandal Protection	FTL 300 interior face	- Low-energy impact - Glass retention on fracture - Partial anti-vandal	Internal corridors, gymnasiums, canteen glazing, low-risk facades.
INTERMEDIATE 02 Burglary & Forced Entry	FTL 600 interior face	- Burglary / forced entry - Sustained tool attack - Full glass retention on fracture	Ground-floor classrooms, admin offices, IT suites, perimeter windows.
COMPREHENSIVE 03 Full-Spectrum Protection ★ Campus-wide standard	FTL 300 exterior + FTL 600 interior	- Forced entry — enhanced - Vandalism, exterior layer sacrificial - Full glass retention on fracture	All primary glazing — classrooms, admin, lobbies, sports facilities, facades.
MAXIMUM 04 Maximum Protection ♦ Highest priority areas	FTL 300 exterior + 2× FTL 600 interior	- Maximum burglary resistance - Repeat-strike vandalism - Full glass retention on fracture	Main entrance lobby, principal offices, glazing facing public roads.

WHEN FILM IS NOT THE ANSWER

Shrapnel, blast or drone threat? Specify the panel, not the film.

FTL hardens glass against people trying to get through it. Where the threat is fragmentation, overpressure or a UAV payload, Fortis specifies a **WIN** window system: an external PMMA–polycarbonate–BoPET panel that oversizes the glass and covers the frame, with FTL 600 on the internal face as the splinter barrier. WIN-3 adds an internal impact-resistant polycarbonate panel and small-calibre resistance. Request the WIN specification separately.

LAMINATE DATA

FTL 300 and FTL 600.

FTL 300		FTL 600	
300 μ / 12 mil		600 μ / 24 mil	
Thickness	300 μ / 12 mil	Thickness	600 μ / 24 mil
Visible light transmittance	89 ± 3 %	Visible light transmittance	92 ± 3 %
Internal / external reflection	10 ± 3 %	Internal / external reflection	10 ± 3 %
UV blocking	≥ 25 %	UV blocking	≥ 99 %
Infrared blocking	2 ± 5 %	Infrared blocking	12 ± 2 %
Fog degree	≤ 3.5 %	Fog degree	≤ 3.5 %
Clarity	≥ 99 %	Clarity	≥ 99 %
Total solar energy rejection	13 ± 2 %	Total solar energy rejection	14 ± 2 %
Aging (UV, 1,200 h)	No change	Aging (UV, 1,200 h)	No change
Applied to the exterior face as a sacrificial and impact-distributing layer, or to the interior face in the entry-level configuration.		Always the interior retention barrier. This is the same laminate gauge Fortis builds into its certified ballistic glazing composites as the inner spall-control film.	

SUPPLY & TEST METHODS

Roll dimensions	1.52 m × 45 m, self-adhesive
Optical properties	Measured to GB/T 2680; haze and clarity to ASTM D1003
Accelerated aging	0.5 W/m ² @ 340 nm, 1,200 hours — no measurable change
Substrate	Annealed, toughened and laminated float glass; single and double glazed units
Installation	Certified Fortis technicians only. Batch records issued per project.

INSTALLATION

Rapid, discreet, certified.

01 Site survey & specification Threat assessment, glazing audit, recommended configuration per area.	02 Pre-cut & dust-free prep Films cut to exact pane dimensions in our certified workshop.	03 Bonded application Approx. 30 minutes per pane. Glass is usable immediately.	04 Certification & records Lab-traceable batch records and a Fortis installation certificate per project.
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CURE SCHEDULE

Usable on day one. Rated on day thirty.

0 DAYS · GLASS USABLE	21 DAYS · APPROX. 80% CURE	30 DAYS · FULL CURE	± TEMP & HUMIDITY DEPENDENT
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Cure figures are estimated and vary with ambient temperature and humidity. Glazing may be cleaned and used normally from the day of installation; adhesion continues to develop over the cure period. Plan handover and any performance verification accordingly.

SCOPE OF CLAIMS

FTL security laminate is supplied and specified as an **anti-break-in and anti-vandal** product. EN 356 classification on a defined build-up is in progress; performance described in this document is based on Fortis in-house testing and demonstrated behaviour, not on a third-party classification.

FTL is not supplied or marketed as a standalone ballistic or blast product and holds no independent EN 1063, EN 1522 or blast classification. EN 1063, EN 1522, VPAM and NIJ classifications held by Fortis apply to the complete tested composite systems they were issued against — BTP glazing, BNTP opaque armour and body armour — and do not transfer to FTL applied to third-party glass. Where a rated ballistic or fragment threat is specified, refer to the BTP, BNTP or WIN system data sheets.

NEXT STEP

Site survey and tailored quotation.

Send the glazing schedule or a photo set and we will return a configuration per area, quantities and a fixed quotation.

Fortis Protection Systems LLC-FZ
 Meydan Grandstand, Dubai, UAE

Fortis Protection Systems d.o.o.
 Ljubljana, Slovenia

luka@fortis-protection.com
 +971 50 360 3937 · fortis-protection.ae