



## BLASTSHIELD ISO 16933

### DESCRIPTION

#### IN TECHNICAL COLLABORATION WITH KURARAY®

Specially configured to withstand bomb and grenade attacks, our BLASTSHIELD units are designed to hold firm in the unfortunate event of a blast. It is important to note that blast-resistant windows do not function in isolation – they only work as part of a system. The system involves the glass, the framing system, the anchoring system and even the structure of the building. If the framing or anchoring system is not blast-resistant, it may be unable to hold the glazing in the event of a blast, which may cause the glass panel to fail. As a part of our SECUREBUILD product line, we will provide you with a qualified blast engineer who will help you create the ideal design for your blast-resistant project.

### PRODUCT FAMILY

1. **BLASTSHIELD ISO FIRST:** Standard clear blast-resistant glass tested to ISO 16933 standard
2. **BLASTSHIELD ISO CLARITY:** Ultra-clear blast-resistant glass tested to ISO 16933 standard
3. **BLASTSHIELD ISO TONE:** Tinted blast-resistant glass tested to ISO 16933 standard
4. **BLASTSHIELD ISO SOLAR:** Solar-control blast-resistant glass tested to ISO 16933 standard
5. **BLASTSHIELD ISO COMBI:** Insulated or multi-laminated blast-resistant glass tested to ISO 16933 standard to satisfy additional requirements - thermal insulation, fire-safety, bullet-resistance and/or blast resistance
6. **SECUREBUILD EN:** Comprehensive framing systems for windows, doors and shutters for burglar resistant glass

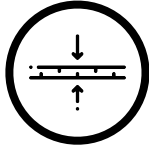
### GENERAL CHARACTERISTICS

SECURITY LEVEL	SECURITY LEVEL	HAZARD LEVEL	DESCRIPTION
A	Safe	No Breakage	No glass breakage. No visible damage to the glazing or frame.
B	Very High	No Risk	Glass breaks but remains completely in the frame. No openings in the glass and no splinters in the room.
C	High	Minimal Risk	Glass breaks, but remains in the frame. Dirt or very small fragments on the window sill or floor are acceptable.
D	High	Very Low Risk	Glass breaks and can be found a maximum of 1 m behind its original location.
E	Medium	Low Risk	Glass breaks and fragments can be found up to 3 m behind the test object. No more than 10 perforations higher than 0.5 m can be found on the rear wall, and none with a depth of more than 12 mm.
F	Low	High Risk	Glass breaks. More than 10 perforations higher than 0.5 m in the rear wall and with a depth of 12 mm.

**Additional Process Capability:** Ceramic-frit, digitecture™ digital printing, sand-blasting, acid-etching



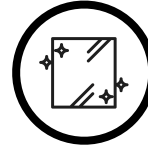
### UNIQUE SELLING POINTS (THE TLC ADVANTAGE)



**THINNEST**  
Up to 25% thinner



**LIGHTEST**  
15-20% lighter



**CLEAREST**  
Minimum 5% clearer

### DIMENSIONS

FEATURE	DESCRIPTION
Minimum Size	250 mm X 350 mm
Maximum Size	Varies as per the standard and framing requirements

### LABELLING

Each piece of BURGLARSHIELD ISO shall be permanently labeled with the FG logo and the relevant standard description. In cases where the glass is made under a specific listing, the same shall be incorporated in the label. Order-specific labeling is also possible, under certain terms and conditions.

### STANDARDS

- BURGLARSHIELD ISO glass is manufactured to conform to the norms laid out by ISO 16933:2018 standard

### STORAGE

BURGLARSHIELD ISO requires storage in a covered, dry area, unexposed to rain and dust. Each sheet or piece of BURGLARSHIELD ISO should be separated with the help of non-adhesive transferring cork/rubber pads. Prolonged storage without separation or with paper separation may result in permanent and irreversible damage to the glass surface.