

Security Framed Glass System

2025.07

Safety Evidenced.

A vertical photograph of the Toronto skyline, featuring the CN Tower prominently on the left side. The image is partially obscured by a grey vertical bar that serves as a background for the table of contents.

CONTENTS

01

About us

02

Team and Factory

03

One-stop solution

04

Products and Certificates

05

Key Projects

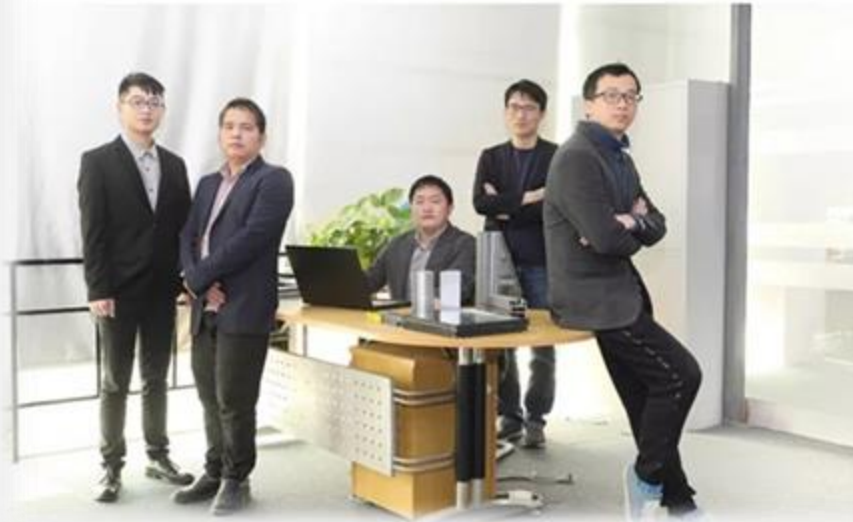
1.0 About us



- ❖ KFORTS provides one-stop solution of framed security glass systems complying with EN&UL&SS standards.
- ❖ Products: customized glass door/window/partition/curtain wall systems with burglar resistance, bullet resistance, anti-explosion and fire rated performance.
- ❖ Facilities: an independent R&D team, laboratories, and manufacturing facilities.
- ❖ Certificates: certifications, test reports, ISO9001.
- ❖ Project regions: Europe, Asia, Australia, South America and Africa etc.

2.1 Team

30+
Designers &
Engineers



2.2 Factory

Factory Area
27,000 m²

Workshop Area
15,000 m²

6
Production
lines

8
CNC Fabrication
Center

150+
Producing
Equipment

Details

2.2 Factory



2.2 Factory



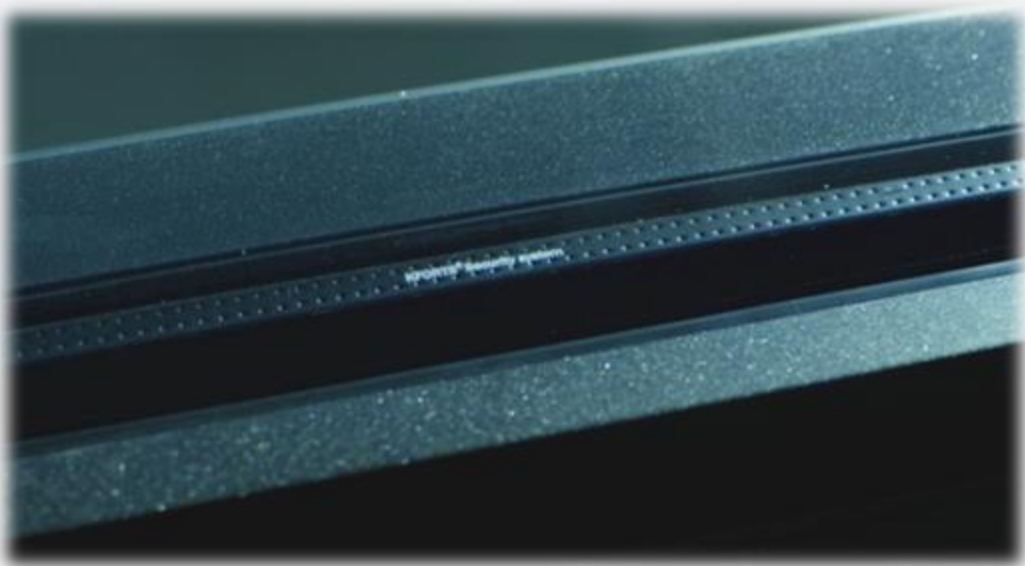
2.2 Factory



2.2 Factory



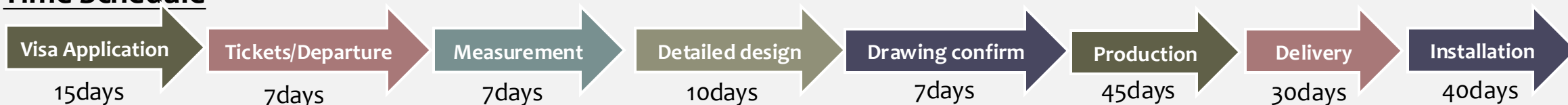
2.2 Factory



3.0 One-stop solution



Time Schedule



4.1 Partners and Certificates

100+ Global Partners



Certificates



4.2 Products



Burglar
proof

1

Burglarproof glass system

- Up to highest level
- Customized

Bulletproof glass system

- Up to highest level
- Customized

2

Bullet
proof



4.2 Products



Anti-
explosion

3

Anti-explosion glass system

- Customized

Fire Rated glass system

- 1 hour, 1.5 hours and 2 hours
- 3 hours Customized

4

Fire
proof



4.3 Scenarios



Villa



Stadium



Banks



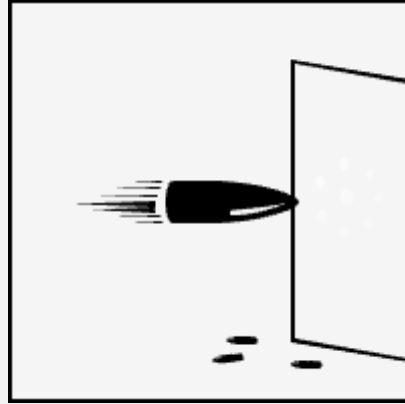
Embassies

OR 5-star hotels, airports, governmental departments and other high-security spots

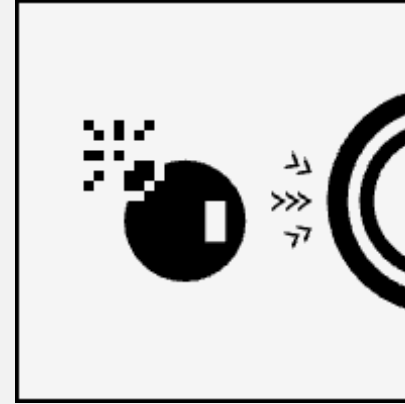
4.4 Standards



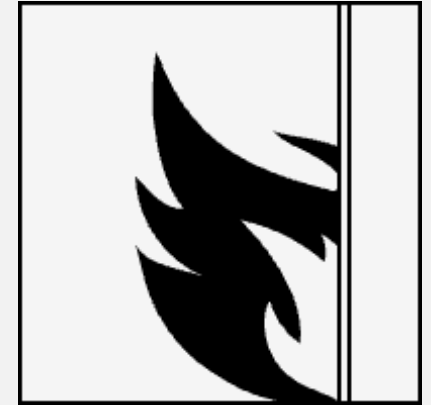
EN1627-1630
EN356



EN1063
EN1522 1523
UL752
NIJ 0108.01



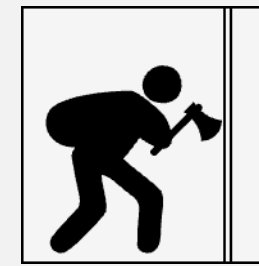
EN13123-2
GSA TS01
ISO 16933



EN357
EN1364-3
SS332

Customizing KFORTS products with single/combined performances.

4.5 Performance



KFORTSTM

KFORTS burglar resistant glass systems and performances

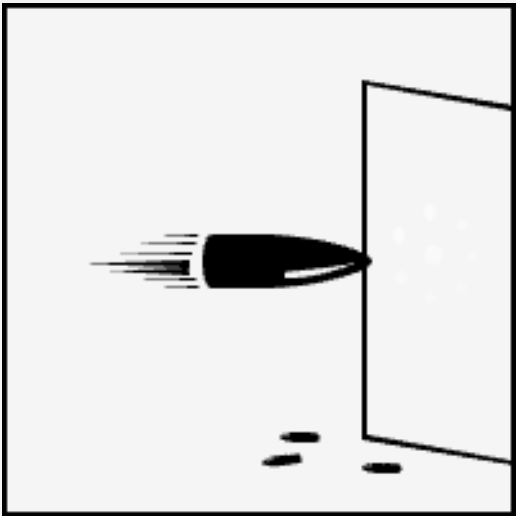
Frame and special glazing, tested as a system in accordance with EN 1627-1630, is up to RC6, the highest level. The glazing, complying with EN356, is up to P7B and P8B, or even higher quality beyond the standard, in RC5 and RC6 systems.

KFORTS System	KRC1	KRC2	KRC3	KRC4	KRC5	KRC6
EN1627	RC1	RC2	RC3	RC4	RC5	RC6

KFORTS Bullet resistant systems and Performances

In accordance with EN 1522-1523, the frame and glass as a system are up to FB7-NS, the highest level.
The glazing in accordance with EN 1063 is up to BR7-NS, the highest level. In accordance with UL752 and NIJ 0108.01, the frame and glass as a system are up to Level 7 and Type III.

Standards	EN1063	EN1522-1523	UL752	NIJ 0108.01
KFORTS System	KBRI-7-NS	KFBI-7-NS	KLevel 1-7	KType I-III



4.5 Performance

KFORTS Blast resistant glass systems and Performances

In accordance with EN13123-2, GSA TS01-2003, and ISO 16933-2007, the blast resistance system is up to **EXR3 (12 kg | 5.5 m)**, **GSA 2 ("Very High" protection level)**, and **ISO B ("No Hazard" hazard rating)**.
The size of the frame and glass as a system is tailored according to individual requirements and engineer calculations.

Extract from EN 13123-2

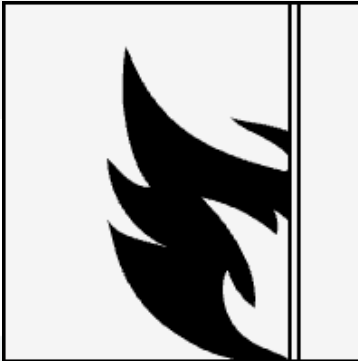
KFORTS Systems	Facade, window, door, shutter
KEXR1	EXR1
KEXR2	EXR2
KEXR3	EXR3
/	EXR4
/	EXR5

Extract from GSA-TS01-2003 and ISO 16933

KFORTS Systems	GSA	KFORTS Systems	ISO	D
/	GSA 1	/	A	Glazing does not break. No
KGSA2	GSA 2	KISO-B	B	Glazing cracks but is retained by the frame. Dusting
KGSA3a	GSA 3a	KISO-C	C	Glazing cracks. Fragments enter space and lanc
KGSA3b	GSA 3b	KISO-D	D	Glazing cracks. Fragments enter space and land
KGSA4	GSA 4	KISO-E	E	Glazing cracks. Fragments enter space and land on no more than 3.048 mm from the window c
KGSA5	GSA 5	KISO-F	F	Glazing cracks, and the window system fails catastro panel at a distance of no more than 3.048 mm from



4.5 Performance

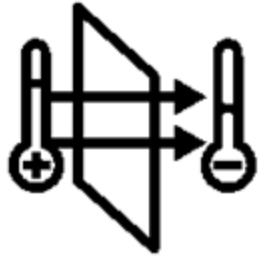


KFORTS fire-rated glass systems and performances

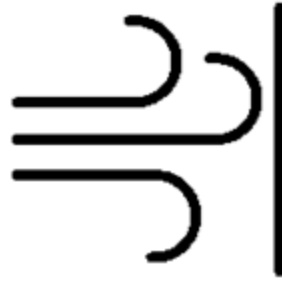
In accordance with **EN 1634-1, EN1364-3, EN357, and SS332**, the fire-resistant glass system meets integrity and insulation requirements for 60 minutes and 120 minutes.

Standards	KFORTS Systems	Performances
<p>Standard for glass* EN 357:2004</p> <p>Glass in building—Fire resistant glazed elements with transparent or translucent glass products—Classification of fire resistance</p>	<p>Ei-60 Ei-120</p>	<p>Integrity and insulation meet the standard for 60/120 minutes.</p>
<p>Standard for doors SS332:2018+A1:2022</p> <p>Specifications for Fire Doors</p>	<p>Ei60-D1/D2 Ei120-D1</p>	<p>Integrity and insulation meet the standard for 60/120 minutes.</p>
<p>Standard for partitions EN1364-3</p> <p>Fire resistance tests for non-loadbearing elements—Part 3: Façade ing—Full configuration (complete assembly)</p>	<p>Ei60-W1 Ei120-W1</p>	<p>Integrity and insulation meet the standard for 60/120 minutes.</p>
<p>* European standards do not conduct independent tests on fire-resistant glass and only conduct tests on systems that contain fire-resistant glass.</p>		

4.6 Building physics



Thermal insulation
 $U=1.0-1.5 \text{ W}/(\text{m}^2 \cdot \text{K})$



Resistance against wind load
 Against hurricane (max)



Water tightness
 $\geq 700 \text{ Pa}$



Air permeability
 Length of Seam: $\leq 0.5 \text{ m}^3(\text{m} \cdot \text{h})$
 Square: $\leq 1.4 \text{ m}^2(\text{m} \cdot \text{h})$



Sound Insulation
 $\geq 44 \text{ dB(A)}$

09 Testing photos



Bulletproof



Fireproof



Anti-Cutting



Anti-Cutting



Anti-Smash



Prying-Resistance



Anti-Shock



Anti-Impact

10 Key projects



ACAD, Saudi Arabia

10 Key projects



One Marina Gardens, Singapore



Chuan Park, Singapore

10 Key projects



Normanton Park, Singapore

10 Key projects



Bernam, Singapore



Canberra, Singapore

10 Key projects



Landmark tower, Singapore

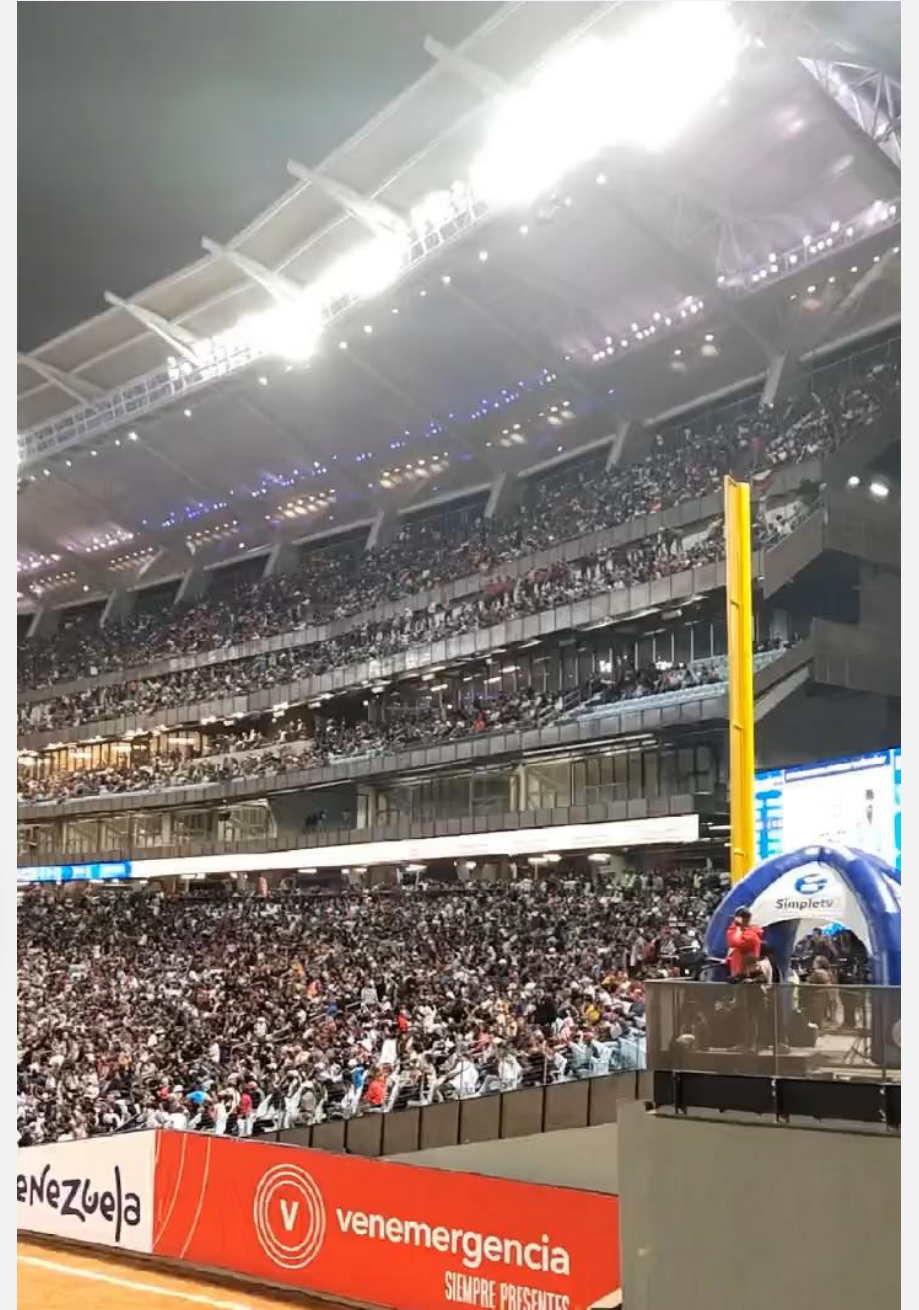


Yi Shun, Singapore

10 Key projects



La Rinconada Baseball stadium, Venezuela



10 Key projects



Quanzhou, China



Shantou, China

10 Key projects



Enga Hospital, Papua New Guinea



Church of DUNAMIS, Nigeria

10 Key projects



490 Hospital, Australia



Chick Chick Hotel, Angola

10 Key projects



Hotel CARIBE, Venezuela



HG Hotel, Venezuela



A wide-angle photograph of the Toronto skyline at dusk. The CN Tower stands prominently in the center, its spire reaching into the sky. The surrounding city is filled with numerous skyscrapers, many of which have their lights on, reflecting the twilight. The sky is a mix of soft pinks, oranges, and blues, indicating the time is either early morning or late evening. The water of Lake Ontario is visible in the background, between the city and the horizon.

Thank you