

Intruderprufe®

Laminated Safety Glass

DESCRIPTION

Intruderprufe® is the brand name for clear laminated safety glass manufactured for improved security and designed to be significantly more difficult to penetrate. It has the appearance of monolithic float glass but up to 10 times the penetration resistance.

TYPICAL APPLICATIONS

- Any application where additional safety and security is required

Note: For optimal security we suggest you contact the PG SmartGlass® Solutions Centre for advice on framing

BENEFITS AND FEATURES

- Safety & Security
- Reduces noise
- Reduces UV radiation

VARIATION

Intruderprufe® is tested by repeatedly dropping a 225g steel ball from a height of nine meters. The impact of each drop could be equated to a blow from a hand wielded hammer. The table shows the number of blows required to penetrate the glass.

Intrusion Resistance (buys you time)

Variation	Thickness	Number of Hammer Blows
Normal Strength	6.38	3
High Penetration Resistance	6.76	8
High Impact	7.52	24

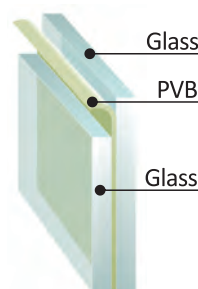
LEGISLATION AND STANDARDS

Intruderprufe® is manufactured under ISO 9001:2000 quality management standards and complies to the requirements of SANS 1263 Parts 1 & 2 as applicable to NS, HPR and HI strengths respectively.

SIZES & THICKNESSES

Sizes and thicknesses are available on request. Recommended maximum size will depend on application and design load.

Variation	Thickness
Normal Strength	6.38
High Penetration Resistance	6.76
High Impact	7.52



Technical Information

(Performance Data)

Intruderprufe® and PG SmartGlassX2™ Intruderprufe®

Clear Glazing	SAGDB	Visible Light		Solar Energy							Noise
		Trans.	Reflect.	Total Elim.	Reflect.	Absorpt.	Direct Trans.	S.H.G.C	Shading Coeff.	U-value (Centre of glass) W/m2.K	
Intruderprufe® NS	ZA100100	88	8	20	7	19	74	0.80	0.92	5.80	33
PG SmartGlassX2™ Intruderprufe® + 12mm air gap + ClearVue		78	15	32	11	31	58	0.68	0.79	2.80	36

PG SmartGlassX2™: Low E & ClearVue®

ClearVue® Low E (4142) + 12mm air gap + ClearVue® (16017)		Visible Light		Solar Energy							Noise
		Trans.	Reflect.	Total Elim.	Reflect.	Absorpt.	Direct Trans.	S.H.G.C	Shading Coeff.	U-value (Centre of glass) W/m2.K	
Armourplate® Low E		73	16	37	13	33	54	0.63	0.72	1.90	29
Intruderprufe® Low E		73	16	37	13	33	54	0.63	0.72	1.90	34

Note:

The performance data in the above table is calculated in accordance with NFRC 100-2010, and given as an indication only.

Actual values may differ due to manufacturing tolerances.

S.H.G.C. and U-values quoted are "Centre of Glass", and exclude any frame effects. SANS 204 should be consulted for total fenestration values.

Thermal safety warranties are available on application.

Sound Transmission Loss (S.T.L.) values are mean, measured at the centre frequency of the 1/3 octave band, over the frequency range 100 to 5000Hz, centre of glass.

*IGDB: International Glazing Data Base

**SAGDB: South African Glass Data Base