

# STRATOBEL/STRATOPHONE 22.X

(22.1 or 22.2)

## The lightest and thinnest laminated safety glass



Laminated assemblies ensure the mechanical resistance of the glass product, and depending on their structure (number of glass panes and interlayers) offer different levels of safety and sound insulation. In addition to these two aspects, Stratobel/Stratophone glass can be used in a number of creative combinations, with matt or coloured PVB interlayers providing enhanced privacy or decoration. Laminated glass can be used as monolithic or insulating glazing.

Stratobel/Stratophone 22.x is the lightest and thinnest laminated safety glass in the AGC range. It is made up of two thin glazings (2 mm each) separated by one or more PVB interlayers.

### BENEFITS

#### · Lighter

Stratobel/Stratophone 22.x weighs the same as ordinary 4 mm glazing and offers a gain of 5 kg/m<sup>2</sup> compared with 33.x laminated glass.

#### · Thinner <sup>(1)</sup>

Stratobel/Stratophone 22.x is the same thickness as ordinary 4 mm glazing. Because it is so thin, it can be used in furnishing applications (e.g. doors for furniture and cupboards). Stratobel/Stratophone 22.x is also the ideal solution for producing double and triple-glazing units: it is thinner than Stratobel/Stratophone 33.x and can be easily fitted into standard frames.

#### · Easier to install

Using Stratobel/Stratophone 22.x helps to reduce the weight of IGU glazing units and hence windows, making handling and installation easier.

#### · Acoustic

Stratophone 22.x is the same thickness and weight as ordinary 4 mm glazing, but by using special acoustic PVB it can offer a gain in sound attenuation of +3 dB and even +4 dB in IGU compared with 4 mm glass.

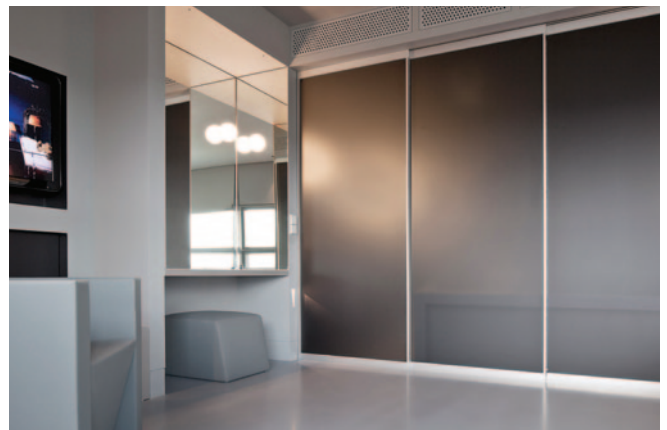
#### · Effective prevention of accidents and defenestration <sup>(1)</sup>

Despite being incredibly thin, this product meets EN 12600 safety standards. Stratobel/Stratophone 22.1 and 22.2 have been classified 2B2 and 1B1 respectively, exactly the same ratings as Stratobel/Stratophone 33.1 and 33.2. This means that, in the event of breakage, the glazings protect people against the risk of injury or falling through windows.

#### · Available in large sizes – Processing

Stratobel/Stratophone 22.x is available in different stock-sized sheets up to 6 m × 3.21 m for further processing. Cutting tests have been successfully carried out on various types of table. Since it is thinner than other products in the same range, Stratobel/Stratophone 22.x may be liable to break in some cases. Processing the edges of the glass may be advisable to make the pane more resistant to shock.

	Thickness (mm)	Weight (kg/m <sup>2</sup> )	Acoustic <sup>(2)</sup>
			RW (C;Ctr) - dB
<b>Single glazing</b>			
Planibel 4 mm	4	10	30 (-2;-4)
Stratophone 22.1	4	10	33 (-2;-5)
<b>Double glazing</b>			
4 - 16 - 4	24	20	30 (-1;-4)
4 - 16 - Stratophone 22.1	24	20	34 (-1;-3)



Stratobel Matelux 22.2

(1) The maximum dimensions when using Stratobel/Stratophone 22.x must be calculated based on the relevant load (wind, snow and/or other factors), according to the prevailing standards.  
(2) These sound reduction values correspond to glazings of 1,23 m by 1,48 m according to EN ISO 717-1 & EN ISO 10140 which are tested in laboratory conditions. The accuracy of the given indexes is not better than +/- 1dB. In-situ performances may vary according to the effective glazing dimensions, frame system, noise sources, etc.

## APPLICATIONS

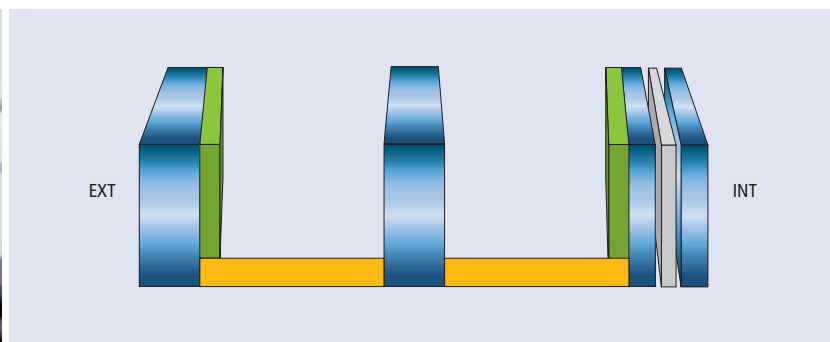
### Residential double – triple glazing

Stratobel/Stratophone 22.x is the ideal laminated glass for residential double and triple glazing applications.

The product can be combined with AGC’s various LOW-E coatings – such as iplus 1.1 or iplus 1.0 – for optimal performance in terms of insulation and solar control.



Triple glazing for residential applications



Position of coatings and TG composition

Coatings PVB

Composition with Clearlite	Coatings in position 2 and position 5	Light & Energy properties EN410 - EN673					Safety (Impact / Break-in)		Thickness mm	Weight kg/m <sup>2</sup>
		LT (%)	LR (%)	SF (%)	EA (%)	Ug value W/(m <sup>2</sup> .K)	EN12600	EN 356		
4  - 14 Ar 90% - 4 - 14 Ar 90% -  4	iplus 1.1	74	16	52	22	0.6	NPD	NPD	40	30
4  - 14 Ar 90% - 4 - 14 Ar 90% -  22.1	iplus 1.1	74	16	52	25	0.6	2B2	NPD	40	30
4  - 14 Ar 90% - 4 - 14 Ar 90% -  22.2	iplus 1.1	74	16	52	25	0.6	1B1	P2A	41	30
4  - 14 Ar 90% - 4 - 14 Ar 90% -  33.1	iplus 1.1	73	16	52	26	0.6	2B2	NPD	45	35
4  - 14 Ar 90% - 4 - 14 Ar 90% -  44.2	iplus 1.1	73	16	52	27	0.6	1B1	P2A	45	41

### Decoration

AGC offers different types of Stratobel glass for interior furnishing applications. Depending on the desired appearance, Stratobel/Stratophone 22.x can be assembled with white or coloured PVB interlayers: white affords a sense of calm while the range of coloured PVB permit a multitude of subtly different outcomes.

## RANGE

- Stratobel/Stratophone Clearlite 22.1 or 22.2
- Stratobel/Stratophone Clearlite 22.1 or 22.2 with iplus 1.1 or iplus 1.0
- Stratobel/Stratophone Colour 22.1 or 22.2

Refer to our Stratobel Colour range on [www.agc-yourglass.com](http://www.agc-yourglass.com)



Stratobel Matelux 22.2



Stratobel/Stratophone 22.x is Cradle to Cradle Certified® Silver

For more details, refer to AGC’s Product Catalogue on [www.agc-yourglass.com](http://www.agc-yourglass.com)