

Curved laminated glass

More and more architects and interior decorators are seeking ways to combine their basic construction and aesthetic designs with materials which meet security and performance requirements.

Crisunid is a material which combines the concept, contemporary feel and beauty of curved glass with the high technology, security and performance available from glass laminated with polyvinyl butyral.

Crisunid consists of curved safety glass made up of two or more pieces of float glass sandwiched with layers of polyvinyl butyral which prevents glass from shattering in the event of impact.

Applications according to safety levels

Crisunid can be used for a variety of applications depending on the thickness, characteristics and number of glass panes and polyvinyl butyral layers:

Level A. Physical safety

- building facades
- windows
- revolving doors
- columns
- panoramic lifts
- parapets for balconies and stairways
- skylights
- floors, etc.

Level B. Anti-aggression

- shop windows
- government offices
- homes
- control and data processing centres

Level B. Anti-theft

- shop windows
- art exhibitions
- banks and savings institutions, etc.



Metro, Bilbao
arq. Norman Foster



Peek & Cloppenburg, Berlin

Laminated safety glass certifications

Level	Reference	Thickness	Weight kg/m ²	Homologation
A	A-7	6,4 mm.	15	DBT 2019
A	A-9	8,4 mm.	20	DBT 2019
A	A-11	10,4 mm.	25	DBT 2019
A	A-13	12,4 mm.	25	DBT 8001
B	B-11	10,8 mm.	30	DBT 8001
B	B-13	12,8 mm.	30	DBT 2001
B	B-17	16,4 mm.	40	DBT 8001
B	B-21	20,8 mm.	50	DBT 2019
B	B-19	18,8 mm.	45	DBT 2019

Noise reduction

Composition	3.3	5.4	6.4	6.6.6
Thickness	6 mm. 1/4"	9 mm. 1/3"	10 mm. 2/5"	18 mm. 2/3"
Weight	15 kg/m ²	22,5 kg/m ²	25 kg/m ²	45 kg/m ²
125 Hz	22 db	25,5 db	25 db	27 db
250 Hz	27,5 db	30 db	29,5 db	35 db
500 Hz	30,5 db	33 db	32,5 db	35,5 db
1000 Hz	34 db	35,5 db	34,5 db	36,5 db
2000 Hz	32 db	36 db	36 db	43,5 db
4000 Hz	37 db	43,5 db	46 db	51 db
Traffic noise	31 db	33,5 db	32,5 db	36 db

Technical data

Maximum dimensions
5800 x 2400 mm. (228 x 94")

Maximum height of rise
1000 mm. (39")

Minimum dimensions
400 x 400 mm. (15 x 15")

Glass colours available
Grey, Bronze, Green, Rose, Blue, Extraclear

PVB colours available

Standard: Grey, Bronze, Green, Blue, Translucent
Special: any colour (minimum 200 m²)

Reflective glass and low emissivity glass

Only pyrolytic types can be curved.

See the Curved Glass Manual for information about tolerance, minimum radius and most common curves.

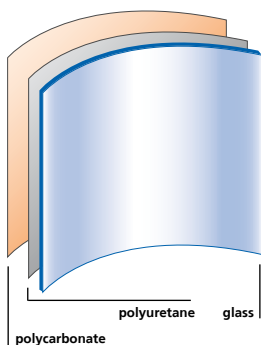
Crisunid Security

Definition

This heading encompasses a series of compositions that, on account of their combination of different elements, provides greater safety features than conventional laminated glass.

Installation

In all the above cases the entire perimeter of the glass should be framed on all four-sides. The depth of the groove should exceed the thickness of the glass by 50%.



Crisunid P Omnicard

Laminated glass with polycarbonate.

The composition's main feature is its reduced thickness, which provides a high degree of protection against aggression. It is especially recommended for car windows,

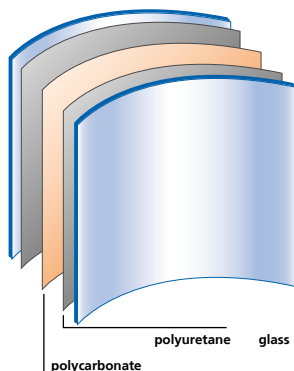
normal display cases and those used to display valuable objects. It is very resistant to hammering or blows caused by sharp objects. Its reduced thickness and lightness makes it easy to install in new units and when remodelling

Maximum dimensions

2000x1000 mm

Minimum thickness

7 mm



Crisunid P Omnilite

Laminated glass with polycarbonate provides maximum resistance against penetration.

It combines the characteristics of laminated glass, with polycarbonate's high degree of resistance to blows. This glass is

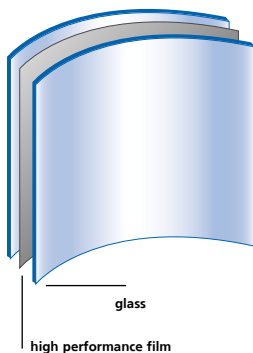
recommended for window displays of jewellery stores and shops that exhibit very valuable goods. It resists repeated hammering, being very efficient against attempted theft.

Maximum dimensions

2900x1500 mm

Minimum thickness

14 mm



Hurricane resistant

Laminated glass that is very resistant to strong gusts of wind.

Different compositions for the different levels of resistance to hurricanes are achieved by the use of high performance film qualities.



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