

TRANSPARENT PANELS



GLASS panels without frame

Where do I use this kind of panel?

WITH HE-PROFILES	WITH LATTICE STEEL STRUCTURE	WITH SHAPED PROFILES
✓	✓	X

The transparent barrier is composed of:

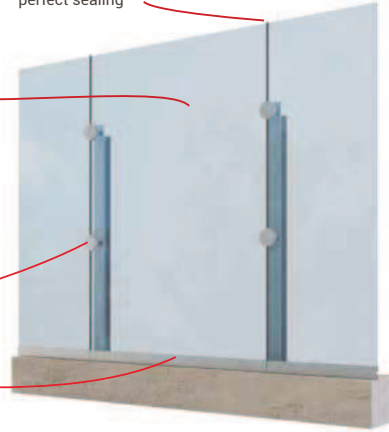
Laminated glass plate, total thickness 21,52 mm, composed of:

- tempered float, thck. 10 mm
- transparent PVB film, thck 1,52 mm
- hardened float, thck. 10 mm

Vertical double disc constraints connected to the support structure, made of galvanized steel and possibility to be painted in all RAL chart colours; instead of galvanized and painted steel, self-passivating Corten steel can be used. Every constraints includes gaskets and fastening elements.

Inferior horizontal constraint made of hot-dip galvanized and painted steel; it can be painted in all RAL chart colours or as alternative self-passivating Corten steel can be used. Every constraints includes gaskets and fastening elements.

Vertical silicone gaskets to guarantee perfect sealing



Constraint detail

This kind of barrier does not only solve the noise problem, but also it respects the environment where it is installed. Thanks to the use of a transparent sheet and its visually low impact a perfect integration in any urban setting is possible.

NOMINAL DIMENSIONS
 height: up to 6.000 mm
 width: 2.000 mm
 total thickness: 21,52 mm
 post distance: 2.000 mm

NOISE BARRIER IN GLASS WITHOUT FRAME, THCK. 21,52 MM

FEATURES	HARMONIZED NORMS	PERFORMANCE OF LAMINATED SHEET 10 MM + 1,52 MM (PVB) + 10 MM HARDENED SHEET	CLASS
Sound-insulation DLR	UNI EN 1793- 2 and 3 - UNI EN ISO 717-1	"DLr =34 dB RW=36 dB"	cat. B3
Self weight resistance: dry weight and reduced wet weight	UNI EN 1794	dry weight: reduced wet weight: NA	-
Wind load resistance	UNI EN 1794 App. A	165 kg/mq	-
dynamic load resistance due to snow clearance	UNI EN 1794 App. E	10 kN/2m x 2m	-
Light reflection	UNI EN 1794 - 2	NPD	-
Brushwood fire resistance	UNI EN 1794-2 App. A	no damages outside discoloration	3
Stone impact resistance	UNI EN 1794 App. C	satisfying performance	-

FINISHING

Possibility of completing the product with additional patented accessories to personalize the panels of the barrier, like:

- silk-screen printed, coloured sheets, bird-of-prey dummies/adhesives or bird guard can be used to minimise bird impact
- self-cleaning treatment (SSG Bioclean ®) to enable impurities on the surface being removed
- HST-thermal treatment (Heat Soak Test), enables to reduce the spontaneous (naturally occurring) breaks of glass
- use of coloured transparent PVB

ADVANTAGES

- continuous transparency on the whole surface
- high noise-insulation performance
- green product (LCA certificate)
- durability: The glass crystal-like transparency will be preserved over time
- excellent fire resistance
- architectural insertion into the landscape
- safety cables
- terracotta cladding, patented system of Cir Ambiente (Brise-Soleil effect)
- support structure can be composed by different profiles like HE/IPE

