

TRANSPARENT PANELS

PMMA panels
(polymethylmethacrylate)



Where do I use this kind of panel?

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

The transparent panels is composed of:

Frame in self-passivating Corten steel or galvanized and painted steel, the frame can be painted in all RAL chart colours

Transparent, colourless or coloured sheet in extruded PMMA (1), standard thickness of 15 or 20 mm (2)



Frame detail

Fastening elements thrust bolts for assembly on HE-profiles (patented system of Cir Ambiente)



Possibilities of finishing to minimise bird impact against sound-insulating panels

- (1) depending on the requirement it is possible to use reinforced PMMA sheets with polyamide wires or steel
(2) depending on the requirement it is possible to use different thicknesses according to the production standards

NOMINAL DIMENSIONS

length up to 4.000 mm

variable height: up to 2.000 mm

sheet thickness: 15,18, 20 or 25 mm

TRANSPARENT PMMA PANEL, 15 MM

FEATURES	HARMONIZED NORMS	TRANSPARENT PANEL IN PMMA, THCK. 15 MM	CLASS	TRANSPARENT PANEL IN PMMA, THCK. 20 MM	CLASS
Sound-insulation DLR	UNI EN 1793-2 e 3	DLr =28 dB	cat. B3	"DLr =31 dB RW=33 dB"	cat. B3
Self weight resistance: dry weight and reduced wet weight	UNI EN 1794	dry weight: NA reduced wet weight: NA	-	dry weight: NA reduced wet weight: NA	-
Wind load resistance	UNI EN 1794 App. A	"1,8 kN/m2 (format 3x1m) 1,4 kN/m2 (format 3x2m)"	-	250 kg/mq	-
risk of falling fragments	UNI EN 1794 - 2 App. B	no fragment	2	no fragment	2
Brushwood fire resistance	UNI EN 1794-2 App. A	NPD		NPD	
Stone impact resistance	UNI EN 1794 App. C	satisfying performance	-	satisfying performance	-

FINISHING

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

- wood-like effect painting treatment (various colours/essences)
- silk-screen print, coloured sheets or bird-of-prey dummies/adhesives can be used to minimise bird impact

ADVANTAGES

- transparency
- excellent sound insulation performance
- resistance and durability: reinforced sheets with polyamide wires increase, in case of impacts, the panel resistance and panel safety is guaranteed
- sheet bending obtained by cold processing or thermoforming

ADDITIONAL ACCESSORIES

- retainer cables
- watertight seal
- "Lip" type seal also acting as an electric insulator between frame and profile
- reinforced PMMA sheet
- Locking system with thrust parts

