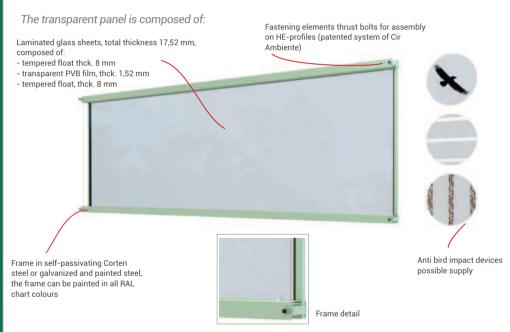
# **TRANSPARENT PANELS**



**LAMINATED GLASS** panels for roads motorways

#### Where do I use this kind of panel?

WITH HE-PROFILES	WITH LATTICE STEEL STRUCTURE	WITH SHAPED PROFILES
√	√	Х



The panel can be used for railways and High-speed railway lines; in order to reduce the vibrations and to increase the acoustic performance, U-shaped EPDM gaskets may be installed between glass panels and frame. It is possible to provide the glass panels with 3 side perimeter frame in order to satisfy aesthetic requirements, leaving free the top frame side.

NOMINAL DIMENSIONS lenath: up to 4.000 mm variable height: up to 2.000 mm plate thickness: 8+1,52 PVB+8 mm





#### TRANSPARENT GLASS PANEL WITH FRAME

FEATURES	HARMONIZED NORMS	PLATE PERFORMANCE 8 MM, TEMPERED + 1.52 MM (PVB) + 8 MM; POST DISTANCE 3 M	CLASSE	PLATE PERFORMANCE 8 MM, TEMPERED + 0,76 MM (PVB) + 8 MM NOT TEM- PERED; POST DISTANCE 4 M	CLASSE
Sound-insulation DLR	UNI EN 1793- 2 e 3 - UNI EN ISO 717-1	DLr =31 dB RW=31 dB	cat. B3	DLr =31 dB RW=31 dB	cat. B3
Self weight resistance: dry weight and reduced wet weight	UNI EN 1794	dry weight: reduced wet weight: NA	-	dry weight: reduced wet weight: NA	-
Wind load resistance	UNI EN 1794 App. A	1,96 kN/mq (panel 3x1 m)	-	1,3 kN/m2 (panel 4x1 m)	-
Wind load resistance	UNI EN 1794 App. A	1,96 kN/mq (panel 3x2m)		1,6 kN/m2 (panel 4x2m)	
dynamic load resistance due to snow clearance	UNI EN 1794 App. E	10 kN/2m x 2m (panel 3x1 m) sp. 1,5 mm	-	10,3 kN/2m x 2m (panel 4x1 m) thck. 1,5 mm	-
dynamic load resistance due to snow clearance	UNI EN 1794 App. E	10 kN/2m x 2m (panel 3x2 m) sp. 1,5 mm	-	10,27 KN/2m x 2m (panel 4x2 m) thck. 2,5 mm (4x2 m)	-
Light reflection	UNI EN 1794 - 2	NPD		NPD	
Release of dangerous substances		NPD		NPD	
risk of falling debris	UNI EN 1794 - 2 App. B	Fragments meet the criteria	2	NPD	
Shatterproof glass test	UNI EN 356	Positive result	P2A	-	

# **FINISHING**

Possibility of completing the product with additional patented accessories to personalize the panels of the barrier.

- wood-like effect painting treatment (various colours/essences)
- silk-screen printed, coloured sheets or bird-of-prey dummies/adhesives can be used to minimise bird impact
- self-cleaning treatment to remove impurities on surface
- thermal HST-treatment (Heat Soak Test) to reduce spontaneous glass-breaks

## **ADVANTAGES**

- high noise-insulation performance
- green product (LCA certificate)
- · durability: the glass crystal-like transparency will be preserved over time
- excellent fire resistance
- · compatible with other panels of Cir Ambiente used for railway lines (stainless steel, concrete and expanded clay)

### **ADDITIONAL ACCESSORIES**

28

- · retainer cables
- · watertight EPDM seal
- "lip" type seal also acting as an electric insulator between frame and profile
- · locking system with thrust parts
- · different thickness of glass sheets

