

Noise barriers

- During the last years, the urban projects to protect population from noise pollution have become usual, either from industrial areas or from roads, motorways, etc.
- Apart from offering an exceptional soundproofing, NUDEC®PMMA sheets, ranging from 15 to 20 mm, have an excellent optical quality as well as a high outdoor stability. One more reason: it is totally recyclable.

Products

- The main function of noise barriers is to reduce noise transmission from one side to the other. Generally, noise barriers are mounted around the noise pollution source, avoiding that noise reaches the population center.

Apart from noise absorption, the soundproofing projects take every day more into account their integration in the urban landscape. Therefore, plastic turns into the ideal material for this application.



Comparison

Material	Thickness mm	Density kg/m ³	Noise reduction dB
NUDEC®PMMA	15	1.200	32
NUDEC®PMMA	20	1.200	33
Polycarbonate	8-12	1.200	31-34
Brick	150	1.840	40
Steel	1,27	7.800	25
Aluminum	6,35	2.700	27
Wood (oak)	25	2.500	21

To use PMMA in highway noise barriers it is necessary that the sheet has a minimum thickness of 15mm and a noise reduction of at least 24 dB (according to European standard EN 1793).