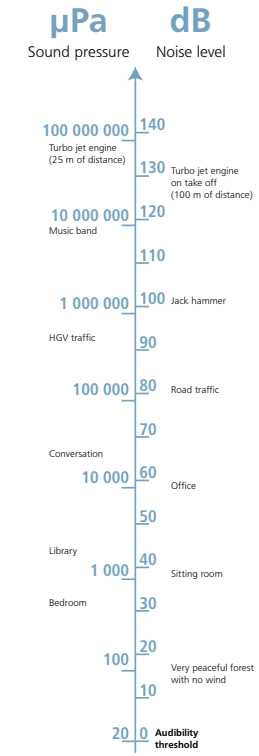
Reflecting screens

Compared to all other sound barrier systems consuming CO2 during their production process, the ecologic balance of a timber panel which does store CO2 is significantly more eco-friendly. Not to mention that all wooden pressure treated components are 100% recyclable, an additional contribution to a better quality of life.



Wood pressure treated with arsenic and chromium preservatives

tertu EQUIPEMENTS
routes et sites autour du monde

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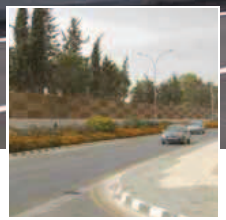
Photos TERTU - Maquette J.SOUND - Impression CARENREPRO 02 31 15 27 46 - Mars 2013



Reflecting screens

Efficient and Eco friendly

Road noises reduced
to improve people well-being

- The warmth of the wood material is combined with acoustics performance tested according to European standards
- Natural storage of CO^2
- Low size compared to other systems
- The lightness/performance ratio does considerably reduce the costs of structures and foundations
- Very easy to install
- CE marked

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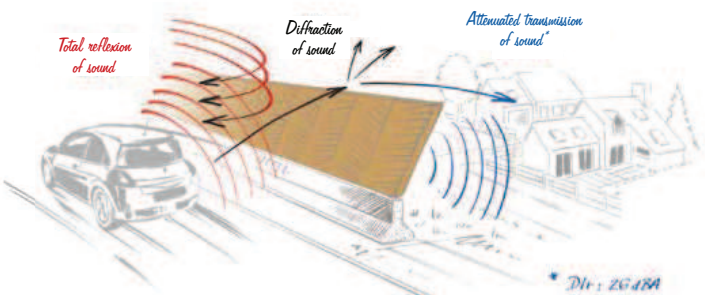
Reflecting screens

All TERTU wooden screens have been tested according to standard EN 1793 by the Laboratoire Européen d'Essais Acoustiques du CSTB (European laboratory for acoustic testing), France.
In order to guarantee on-site the compliance with the performance achieved in the laboratory, it is essential to follow the assembly procedure described in the manual provided with the goods.

Member of the AREBOIS professional association.

▶ Technical description

The reflective screens come in standard modules of 4.00 m in length for a height of 1.00 m. These modules are stacked to obtain heights of 2.00 m, 3.00 m and 4.00 m. The panels are covered with 1/2 logs, diameter 120 mm positioned alternately at 45° right / left. They slide into HEA type galvanized steel posts, the size of which depends on the height of the panel and the conditions of snow and wind in the considered region.

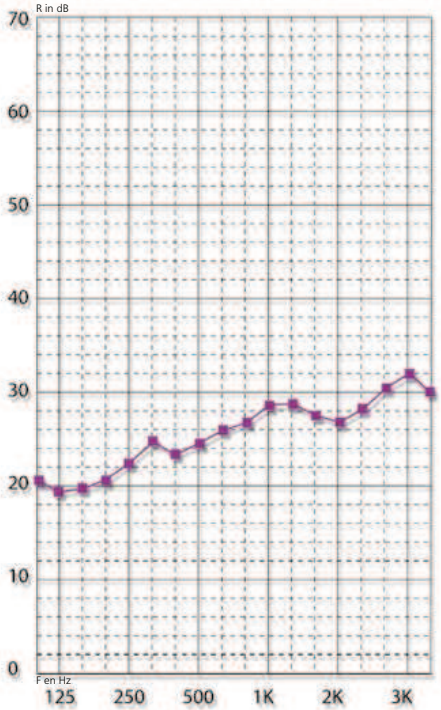


Reflective screens tested according to standard EN 1793

Back view

Front view

▶ Insulation against aerial noise DLR



f	R
100	20,5
125	19,4
160	19,8
200	20,6
250	22,4
315	24,8
400	23,4
500	24,6
630	26,0
800	26,8
1000	28,6
1250	28,7
1600	27,6
2000	26,9
2500	28,3
3150	30,6
4000	32,1
5000	30,2
Hz	**dB**

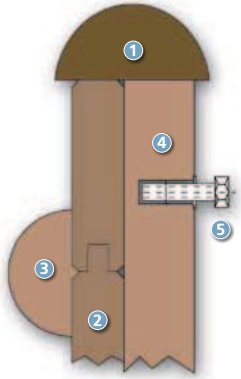
DLR = 26 dBA*
Category DLR in dB

B0	B1	B2	B3
ND	<15	15 à 24	>24

Classification **B3**

*These results have been obtained in laboratory. They are intrinsic data relative to the acoustic panel itself and do not provide its efficiency level that depends on the panel height, the distance from the noise, etc. The efficiency level of the acoustic panel on site has to be determined by an acoustic study which will specify the height and the lay-out of the panels for a required result.

▶ Block diagram



1. Ridge piece: 1/2 round log, diameter 160 mm
2. Tongue and groove board
3. Decoration: 1/2 round log, diameter 120 mm
4. Stiffener
5. Clamping screw