Reflecting screens

µPa Sound pressure	dB Noise level	
		pain threshold
100 000 000	140	Turbo jet engine (at 25m distance)
	130	Turbo jet engine on take-off (100 m of distance)
10 000 000	120	Music band
	110	
1 000 000	100	Jack hammer
	90	HGV traffic
100 000	80	Road traffic
	70	Conversation
10 000	60	Office
	50	Library
1 000	40	Sitting room
	30	Bedroom
100	20	very peaceful forest with no wind
	10	
20	0	Audibility threshold

Pressure-treated wood with chromium and arsenic-free preservatives

PEFC

Certifié ISO 9001 : 2000 par

BVQI

The ecological balance of a wooden screen (storage of CO^2) compared to a non-wood screen (production of CO2), plus the fact that it is treated with a fully recyclable product, make this acoustic system the best suited to the environmental quality required today.

Reflecting screens

Guaranteed high performance

Insulating locations to preserve rural environments

The reflecting barrier is used in preference to the absorbing barrier whenever there is no disadvantage in sending sound back towards its source.

The optimization of its inherent performance depends on its location (length, height, position in relation to the source and the receiver).

- The warmth of wood is combined with acoustic performance tested according to European standards.
- Its dimensions are small comparing to other systems.
- The lightness/performance ratio considerably reduces the costs of structures and foundations.
- Its ease of installation puts it within reach of small, local contractors.

September 2008

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tertu®

WHEN TIMBER LEADS TO INNOVATION

IMPRIMERIE CAEN REPRO 02 31 95 27 46

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

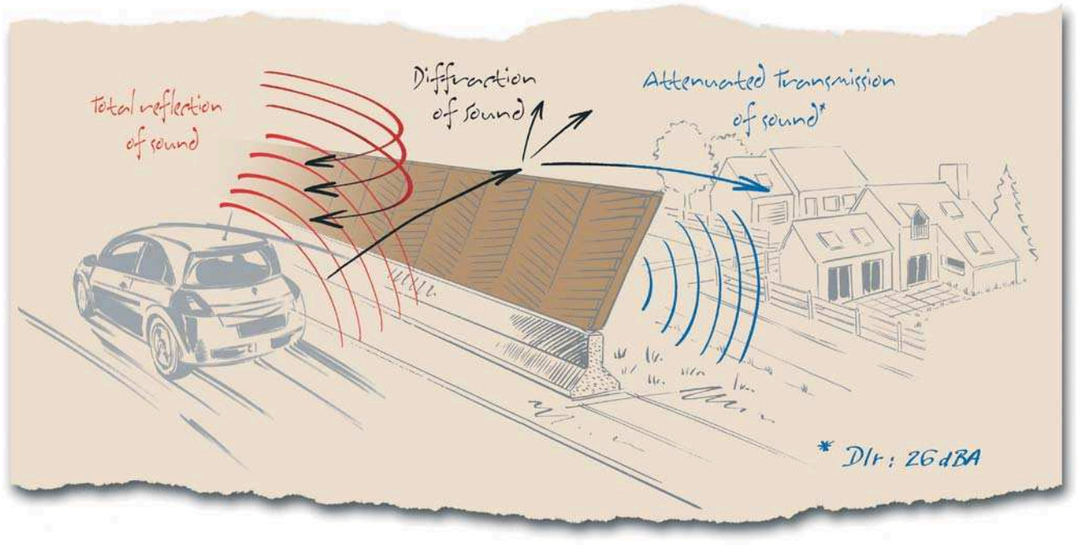
Member of the AREBOIS professional association.

EUROPEAN STANDARD EN 1793

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 "snow-wind" conditions in the considered region .



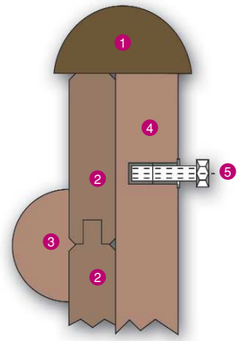
Reflective screens tested according to standard EN 1793

Reflecting screens

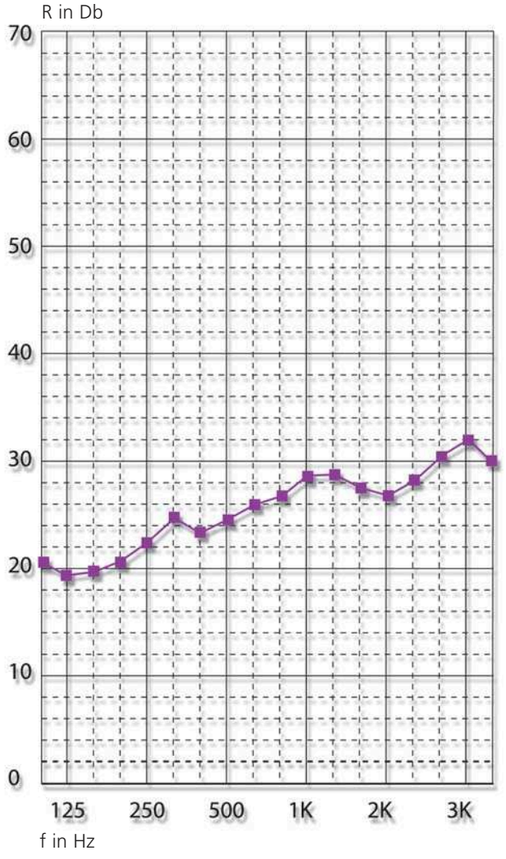
Front view

Back view

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



insulation against aerial noises DL_R

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**

DL_R = 26 dBA

category DL_R in dB

B0	B1	B2	B3
ND	<15	15 à 24	>24

Classification **B3**