

# CANOR BENELUX BV noisebarriers

## SPECIFATION SHEET OF THE NOISEBARRIER:

### TECHNICAL DATA:

Material	: Hot dip galvanized steel+mineral wool
Mesh	: 200 x 400 or 200 x 200
Wire thickness	: 6 or 8 mm
Element thickness	: maximum 230 mm
Element height	: maximum 2.000 mm
Element Length	: maximum 4,0 m
Weight (kg/m <sup>2</sup> )	: maximum 45 kg/M2.
Windload	: 1,5 kN/m2



*Covered with plants*

### Background:

The CANOR BENELUX BV NOISEBARRIER, is a mineral wool (Saint Gobain) based noisebarrier, that offers top absorption and insulation values. The standard consist out a metal mesh that is covered with a PE-net. This net can be supplied in different colours. At request all galvanized steel material can also be powder coated. The steelnet consist out of a rectangular mesh in order not to disturb the driving in his view and create longitudinal lines. After installation the barrier can easily be covered by different climbing plants. The nature of the barrier supports plantgrowth.The pplied plants at this system creates a clean and healthy environment and will transfer polluted CO<sub>2</sub> towards O<sub>2</sub>. The barrier itself is constructed out of fully recycable materials. Therefore this system is excellent alongside higways, railways and local roads due to it's nature of visual and environmental green aspects.



*Impression at rail track with square net*

### SPECIFICATIONS:

GALVANISATION	: NEN1275 (DIN 17.100)
ISOLATION VALUE	: upto R <sub>w</sub> (C; Ctr)=42(-2; -7)dB
According to	: ISO 717-1: 1996
ABSORPTION VALUE	: upto alfa <sub>w</sub> = 1,00
According to	: ISO 11654

At request this modulair elements can be executed with different configurations of noise absorption and isolation in order to fullfill the client requirements as much as possible. This regarding the needed requested absorption and isolation values



*For further information please contact:*

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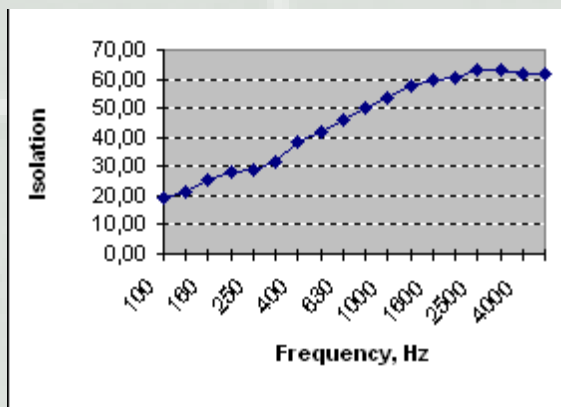
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## ACOUSTIC PERFORMANCE:

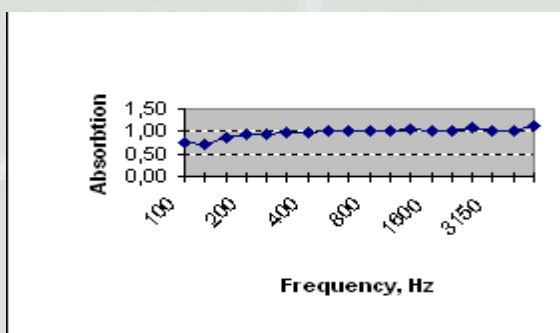
### MAXIMUM ACHIEVED ISOLATION VALUE\*

Frequency	Isolation
100	19,50
125	21,40
160	25,70
200	28,30
250	28,60
315	31,90
400	38,20
500	41,60
630	45,90
800	50,00
1000	53,60
1250	57,40
1600	59,40
2000	60,20
2500	62,80
3150	63,00
4000	62,10
5000	61,90



### MAXIMUM ACHIEVED ABSORPTION VALUE\*

Frequency, Hz	Absorption Alfa
100	0,76
125	0,70
160	0,88
200	0,92
250	0,93
315	0,97
400	0,98
500	1,00
630	1,00
800	1,03
1000	1,03
1250	1,04
1600	1,02
2000	1,03
2500	1,08
3150	1,01
4000	1,03
5000	1,12



\* Note all different isolation/absorption tests are officially executed by an independent laboratory

In both categories this element can be placed according to the EN-1793 ½ into the top class for absorption and isolation.

Some examples during manufacturing, tests and installation.



*Acoustic tests in the Laboratory*



*Windload test for NS-Railway*



*Ready 2,0 x 4,0 mtr elements for transport*



*Ready elements for 2,5 km of 1,0 x 4,0 mtr*



*Installation of the supports from the railtrack side*



*Installation of the concrete bottom part*



Transport of the elements to the building site



The Canor Benelux BV noisebarrier is green in all his aspects:

- 1) Green view.
- 2) Ecological green, noise absorber and –isolator.
- 3) The barrier can be planted.
- 4) Environmental-recycable.
- 5) Cleans air with plants by photosynthesis.

*Installation of the pre assembled elements*

*The end results shows already a clean, healthy, green and envrionmental noisebarrier*



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