

REBLOC NB100H/300_8

Standard element



tested according to EN1317-1/2

Area of application

Integrated noise barrier

Construction

Free standing



Vehicle restraint system

Containment level

H3 (covers H2, H1, N1, T3, T2 and T1)

Working width

W5 (covers W6, W7 and W8)

Noise barrier system

Airborne sound insulation

D4 ($DL_{SI} > 36$ dB) according to EN1793-6
(similar to B3 acc. to EN1793-2, but not identical)

Sound absorption

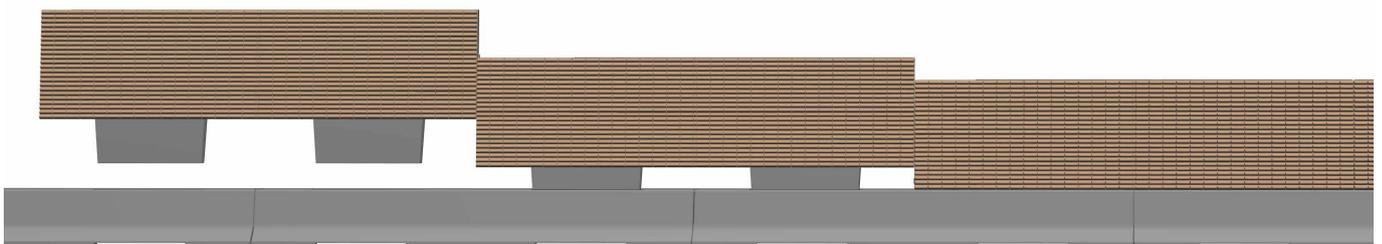
A2, A3, A4 acc. to EN1793-1 depending on the sound absorber

Sound absorption material

different materials, colours and design possible

Product features & Advantages

- Double-sided noise barrier for the centre of carriageway
- Space gain due to combination of vehicle restraint system and noise barrier
- Quick installation due to simultaneous mounting of vehicle restraint system and noise barrier



The REBLOC[®] Integrated Noise Barrier consists of a base element of New Jersey profile and a plate-shaped noise barrier element. The slim total system width makes optimum use of the space available. One noise barrier element is inserted overlapping

two base elements. This configuration enhances stability. The patented coupling system guarantees a high restraint function and connects the elements to a strong chain.

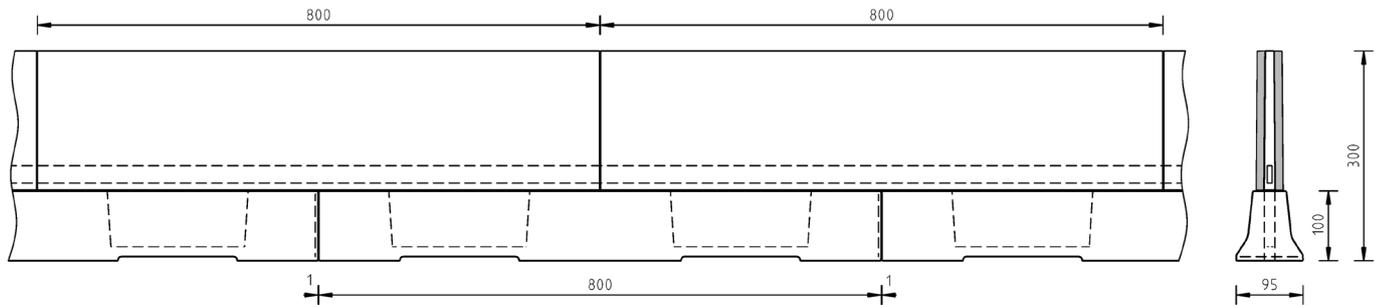
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Technical data



all dimensions in cm

Containment level	H3
Working width	W5
Construction	free standing
Terminal element	not necessary, optional possible
Dimensions L x W x H in cm	base element: 800 x 95 x 100 cm, noise barrier element: 800 x 35,4 (with wood concrete absorber) x 280 cm
Weight base element	10.400 kg
Weight noise barrier element	9.150 kg
Minimum installation length	64 m (8 pcs. base elements and 7 pcs. noise barrier elements)
Curve radius	$r \geq 200$ m
Concrete quality	C30/37, exposure class according to national requirements
Coupling/exposed steel parts	fully integrated, exposed parts hot-dip galvanized
CE certification	✓
Miscellaneous	Different materials, colors and creative designs are available as sound absorption material. Different heights are available on request.



REBLOC[®]
Concrete Barriers

**INTEGRATED
NOISE BARRIER**



Effective Noise Control

A necessity in our day and age.



Noise control is gaining more and more importance because of growing traffic density, increasing mobility of our society and the merging of conurbations and recreational areas.

Continuous traffic noise has negative effects on humans and the environment and sound insulation measures have to comply with complex requirements.

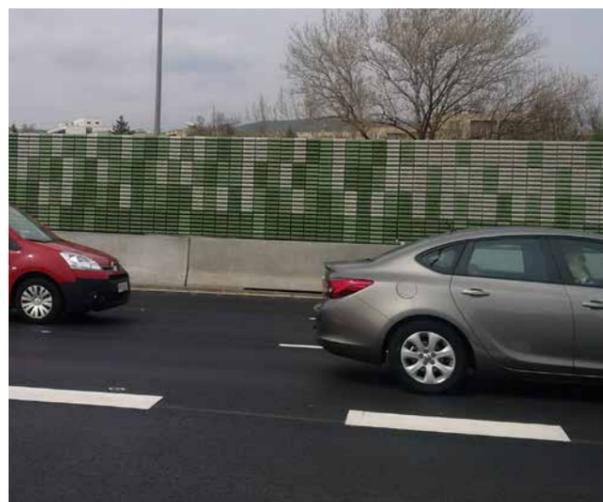
The application of practical and highly effective noise barrier systems is now considered an indispensable necessity.

In order to meet these expectations, REBLOC® developed an innovative product for the highest level of road safety.

The especially developed system consisting of vehicle restraint system and integrated noise barrier tested according to the highest safety and quality standards can be implemented during road construction without consuming space.

This goes along with fulfilling our goal, which is to effectively protect people from increasing noise pollution and ensure their quality of life as a result.

Efficiently reduce noise pollution.



Advantages

Combined vehicle restraint/noise barrier system

The combination of concrete safety barriers and noise barriers is extremely space-saving and features a unique slim design. Conventional designs with separate noise barriers need much more space, which is usually not available. REBLOC® offers one-sided systems for use along the verge of the road as well as double-sided systems for the central reservation.



Very close to the source of noise

Thanks to the combined system, there is only a short distance between the noise barrier and the traffic. As a result, lower noise barriers can be used compared to conventional designs. Improved noise control can be achieved with the same barrier height. As well as noticeably increasing efficiency, the REBLOC® system also substantially reduces costs.



Proven vehicle restraint system

The REBLOC® integrated noise barrier has been successfully tested to the highest safety and quality levels according to EN1317-1/2. Having a high containment level and a very small working width, the system contributes to road safety and ensures that road users are protected from a vehicle breaking through the barrier.



No connection to the subsoil

Often it is not possible to have an anchor or foundation of the system in the soil because of infrastructure such as drainage, cables, etc. This is not necessary for the REBLOC® system and changes can even be made to the road construction after the barrier has been installed.



This system is also suitable as a temporary noise barrier.

Quick installation

The installation time can be reduced substantially thanks to the simultaneous installation of the concrete safety barriers and the noise barriers. This allows quick and efficient installation, which minimizes the disturbances to traffic. The modular system allows easy access for repair work.



Strong coupling for more safety

A full-length continuous steel tension bar is integrated into the barrier elements and connects them to form a strong and continuous chain. The forces involved in a vehicle impact are absorbed safely. The patented and innovative coupling system has no loose parts and significantly increases practicality and safety.

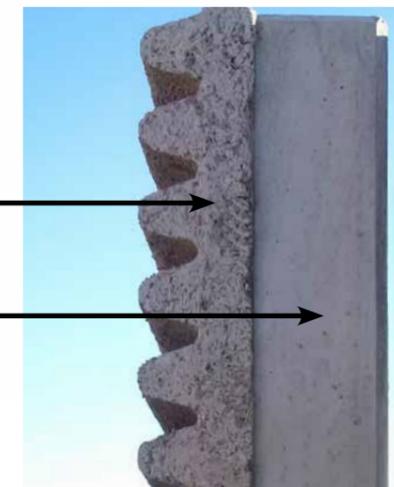
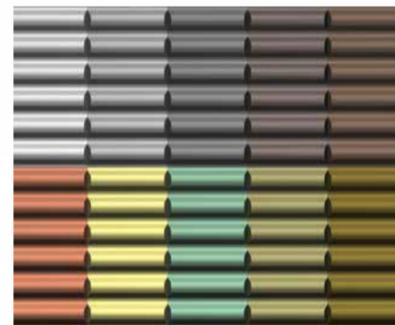
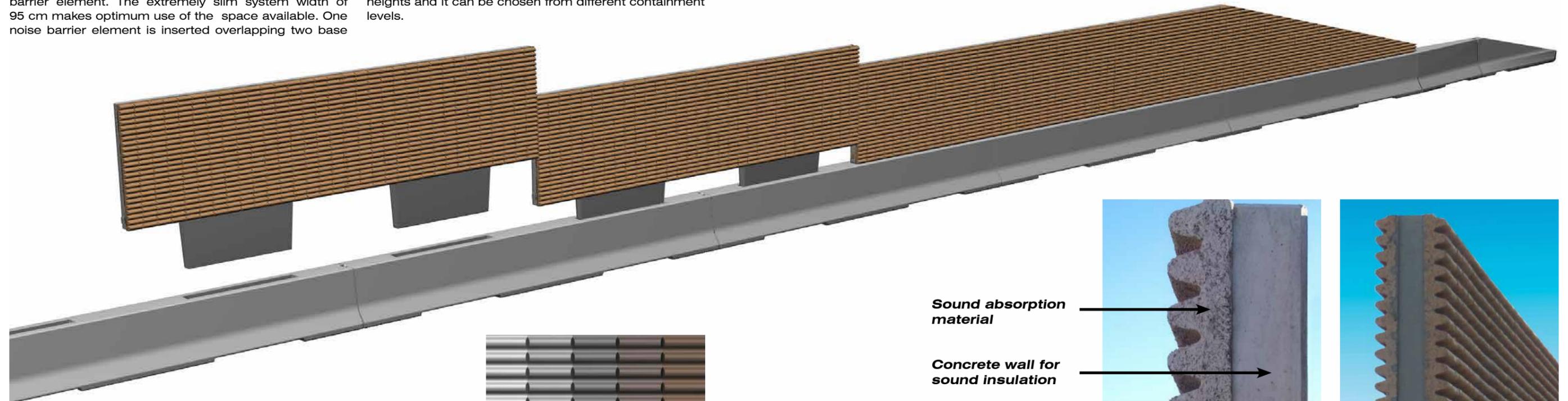


Innovative Noise Barrier

Modular system construction.

The REBLOC® integrated noise barrier consists of a 100-cm-high base element and a plate-shaped noise barrier element. The extremely slim system width of 95 cm makes optimum use of the space available. One noise barrier element is inserted overlapping two base

elements. This configuration enhances stability. The REBLOC® integrated noise barrier is available in different heights and it can be chosen from different containment levels.



Sound absorption material

Concrete wall for sound insulation



One-sided system for the verge of the road

Dual-sided system for the central reservation

Integrated Noise Barrier

Airborne sound insulation: D4 ($DL_{s1} > 36$ dB) according to EN 1793-6 (similar to B3 according to EN 1793-2, but not identical)

Sound absorption: A2, A3, A4, A5 according to EN 1793-1 depending on the sound absorber

Customize your noise barrier.

Different materials, colors and creative designs are available as sound absorption material.

Also available as a temporary noise barrier.

The system can be removed and reinstalled elsewhere.



Sound propagation



Conventional designs

Conventional designs usually take up more space as a vehicle restraint system is installed in front of the noise barrier. The space between them has to be large enough to allow for vehicle intrusion.



The innovative REBLOC® system

The REBLOC® system takes up substantially less space by combining the concrete safety barrier with the noise barrier. The entire system fits into a much narrower space and noise is controlled better because the barrier is closer to the source. At the same time a lower noise barrier can be used, which also reduces costs.

The schematic depictions for the sound propagation demonstrate the effectiveness of noise barrier systems based on acoustic calculations.

Application Examples

Successful in practice.



Terminal element



Noise barriers also available without drainage openings



Bus stop integration



System on gravel



Emergency exit



Concrete safety barriers with drainage openings

REBLOC®

Concrete Barriers



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