



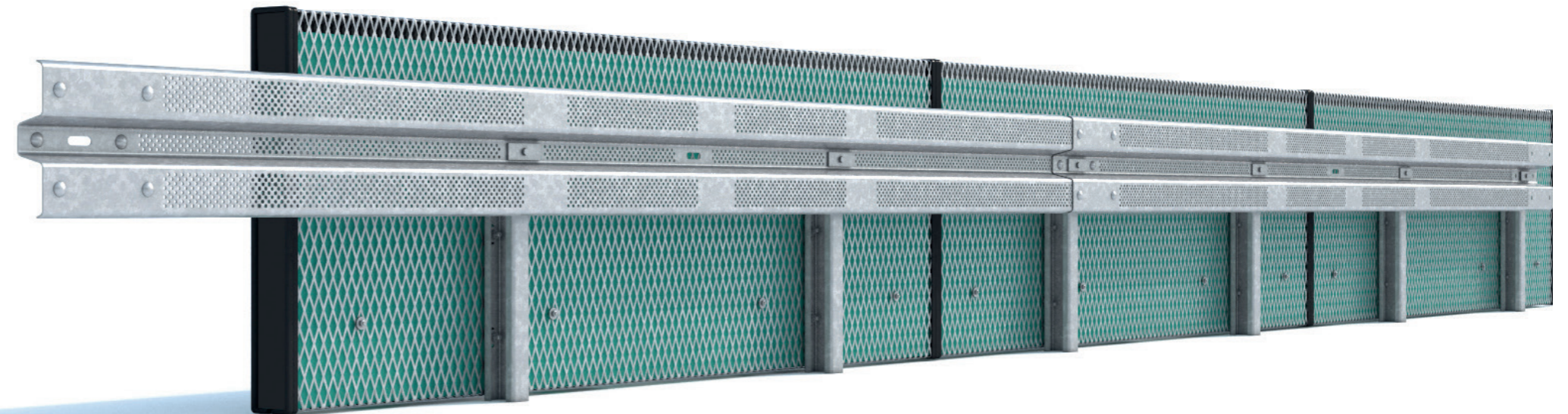
**EASYRAIL<sup>®</sup> NA**

## **Noise Absorbing Guardrail**



# EasyRail<sup>®</sup> Noise Absorbing Guardrail: The future belongs to the silent roads

VOLKMANN & ROSSBACH presents the innovative fusion of a road safety barrier with a special noise absorbing element. With an overall height of 900 mm, the system is just as tall as other common, modern guardrail systems - and yet reduces noise levels in protected areas significantly!



## EN 1317 Performance N2 | H1 | L1 - W4 - A



80 % of all traffic noise on roads comes from the interaction of the asphalt and the wheels of passing vehicles. With a sound source that low, there is no need for a massive wall to block the noise, if a screen can be brought close enough to the traffic. The solution is the noise absorbing safety barrier EasyRail<sup>®</sup> NA.

The noise absorbing guardrail system is equipped with unique perforated steel beams and special panels with stone wool filling from the market leader ROCKWOOL, that allows high noise reduction levels and impressive results in test according to the European Norm EN 14388.

Apart from its decent noise absorbing abilities, it is also a fully functional vehicle restraint system, crash tested to the European Norm EN 1317. All steel parts are hot-dip galvanised for maximum life span and enduring performance.

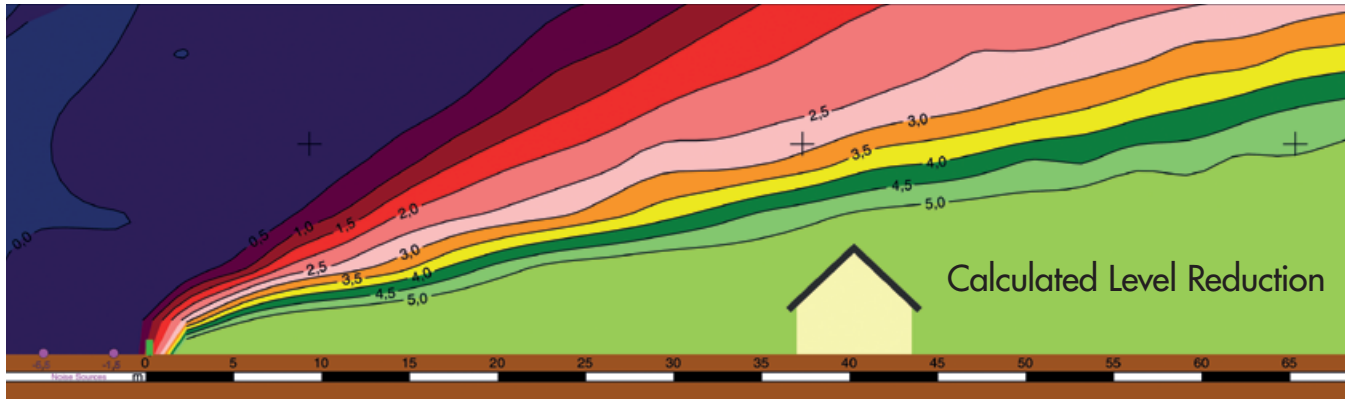
<b>System Properties</b>	System-Weight, -Height, and -Width	48.3 kg/m   900 mm   300 mm
	Containment Class	N2   H1   L1
	Working Width	W4 (Wn = 1.3 m)
<b>Vehicle Restraint Performance (EN 1317)</b>	Impact Severity Level	A
	Dynamic Deflection	0.7 m
	Vehicle Intrusion	VI3
	Sound Absorption, DL <sub>s</sub>	9 dB
	Sound Insulation, DL <sub>R</sub>	23 dB
<b>Noise Reduction Performance (EN 14388)</b>	Self-Weight (dry reduced wet wet)	0.294   0.397   0.552 kN/m <sup>2</sup>
	Maximum Normal Load (90°) of Acoustic Element (Wind and Static Load)	1,04 kN/m <sup>2</sup>
	Maximum Bending Moment of Acoustic Element (Dynamic Load from Snow Clearance)	15 kN/(2 m x 2 m)
	Risk of Falling Debris	Class 4
	Light Reflectivity	Class 3
	Impact of Stones	fulfilled

in cooperation with



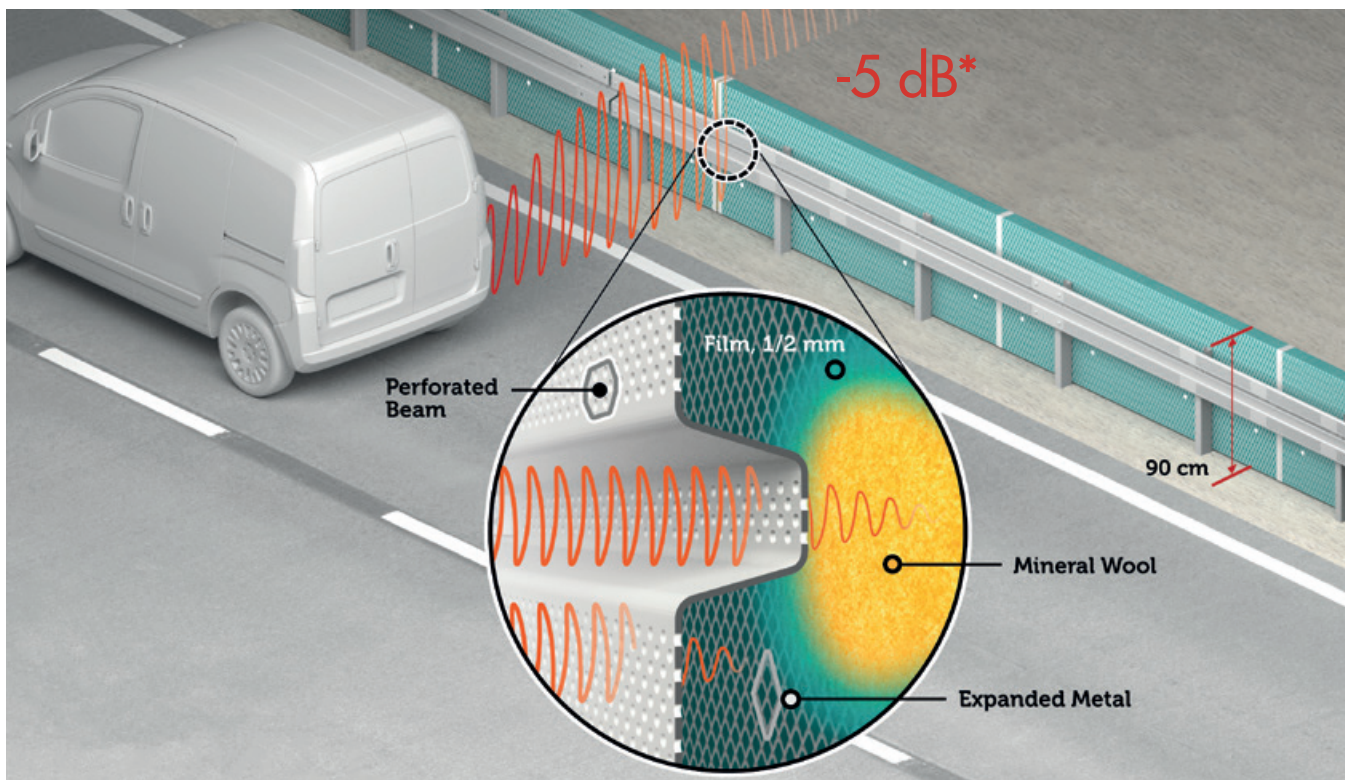


# Small Size, Great Effect



The advantages of the system, especially compared with the alternative of building a noise protection wall with an additional suitable safety barrier in front of it, are compelling:

- noticeable noise reduction up to 5 dB\* and more
- high level of road safety (L1-VV4-A)
- significantly reduced costs in purchase, installation and maintenance
- less intervention into landscape
- free view for road users and residents
- fast installation, no special foundation
- high durability



\*The noise reduction value has been determined by a specialized acoustic laboratory in accordance with ISO 9613:2.

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