

Hammerfoam

Complete CE-marked system for mounting on a bridge or wall along a road or railway. The system is based on a fully assembled Hammerglass Ground-2/Bridge-2/Bridge-3 solution and is supplemented with a highly absorbent mat that clips onto the Hammerglass panel. The Hammerfoam is turned toward the track side along railways, and the road side along roads. The vandal-resistant Hammerglass panel is situated on the opposite side of the screen, and buried about 200 mm into the ground.

Hammerfoam is fire resistant, UV resistant and durable. It is resistant to chemicals and high pressure washers for the clean-up of graffiti. Hammerfoam does not absorb water. Building product declaration is available.

Design and installation

Retrofitting Hammerfoam on the outside of an existing noise barrier in wood, concrete, sheet metal, etc. is in most cases simple and without problems. Hammerfoam holds absorption class A3, which means that an older screen that gets a new "outer coat" of Hammerfoam provides clearly improved noise reduction. In addition, significant environmental and financial gains are achieved in relation to replacing the screen with a new one.



Draft regulatory text

"Noise barriers shall be CE-marked and constructed in 12 mm chemical-resistant (must withstand acetone), hard-coated polycarbonate offering at least 99.96% UV protection, type Hammerglass, mounted on hot-dip galvanised posts, type Hammerglass Ground-2. As noise absorbent, 40 mm Hammerfoam in height 1200 mm, mounted according to the manufacturer's instructions shall be used."

Technical specifications

Complete noise barrier

	Dimensions
Max width Ground-2	2000 mm
Max height (at width 2000 mm)	6000 mm
Hammerfoam	40 mm
Hammerfoam standard height	1200 mm
Hammerglas thickness	12 mm (also 10, 15, 17 mm)

Complete noise barrier - Acoustic properties

	Dimensions	Noise reduction
Noise reduction class Hammerglass	12 mm	B3
Noise reduction Hammerglass	12 mm	34 dBRw
Noise reduction Hammerglass	12 mm	30 DL _R
Noise reduction Hammerglass	15 mm	35 dBRw
Noise reduction Hammerglass	17 mm	36 dBRw
Noise reduction HMG+Hammerfoam	12+40 mm	37 dBRw
Noise reduction HMG+Hammerfoam	12+40 mm	31 DLR

Hammerfoam - Separate assembly

	Dimensions
Max width Hammerfoam	2900 mm
Thickness Hammerfoam	40 mm
Standard height Hammerfoam	1200 mm

Hammerfoam - Mechanical Properties

	Standard
Resistance to fire	EN 1794-2
Fire classification	DIN 4102
Fire classification	EN 13501-1
Resistance to frost and road salt	EN 14474
Notch test	EN 1794-2
Chippings	EN 1794-1
Life expectancy	EN 14389-1-2

Specifications

Class 1
Class B1
Class B, S1-S2, d0
Approved
Class 2
Approved
50 years

Hammerfoam - Acoustic properties

	Standard	Noise reduction
Noise absorption väg DL _α	EN 1793-1	9 dB (A3)
Noise absorption järnväg DL _α	EN 16272-1	11 dB
Air sound insulation DL _{Ri} in-situ road	EN 1793-5	5 dB
Air sound insulation DL _{Ri} in-situ railway	EN 16272-3-2	6 dB