NOISE ABSORBENT HAMMERFOAM

Complete CE-marked system for mounting on a bridge or wall along road or railway. The system is based on a fully assembled 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 barrier shall be CE-marked and constructed in12 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 HMG iNFRA Ground-2. As noise absorbent, 40 mm Hammerfoam in height 1200 mm, mounted according to the manufacturer´s instructions shall be used.”

TECHNICAL SPECIFICATIONS HAMMERFOAM		
COMPLETE NOISE BARRIER		
Max Hammerglass width Ground-2	2000 mm	
Max Hammerglass height (at width 2000 mm)	6000 mm	
Hammerfoam	40 mm	
Hammerfoam standard height	1200 mm	
Hammerglass dimension	12 mm (10, 15, 17 mm)	
Noise reduction class Hammerglass 12 mm	B3	
Noise reduction Hammerglass 12 mm Noise reduction Hammerglass 15 mm Noise reduction Hammerglass 17 mm	34 dB R_W and 30 dB DL_R 35 dB R_W 36 dB R_W	
Noise reduction Hammerglass 12 mm + Hammerfoam 40 mm	37 dB R_W och 31 dB DL_R	
HAMMERFOAM - SEPARATE ASSEMBLY		
Hammerfoam max width	2900 mm	
Hammerfoam dimension	40 mm	
Hammerfoam standard height	1200 mm	
HAMMERFOAM - MECHANICAL PROPERTIES		
Resistance to fire	EN 1794-2	Class 1
Fire classification	DIN 4102	Class B1
Fire classification	EN 13501-1	Class B, S1-S2, d0
Resistance to frost and road salt	EN 14474	Approved
Notch test	EN 1794-2	Class 2
Stone chippings	EN 1794-1	Approved
Life expectancy	EN 14389-1-2	50 years
HAMMERFOAM - ACOUSTIC PROPERTIES		
Noise absorption road	EN 1793-1	9 dB DL_α (A3)
Noise absorption railway	EN 16272-1	11 dB DL_α
Air sound insulation in-situ road	EN 1793-5	5 dB DL_{RI}
Air sound insulation in-situ railway	EN 16272-3-2	6 dB DL_{RI}