

Tender Sample Text

SILENT R[®]

Delivery and installation of Silent R[®] noise protection gabion

To provide and install wire mesh baskets with a filling of hard and durable, sufficiently strong frost, weather and pressure resistant stone material; incl. sound-absorbing core within.

Wire mesh baskets consisting of three chambers with internal continuous and jointless concrete core for insulation of the passage sound in combination with selected stone material for reduction of the sound reflection.

Wire mesh baskets, made of electro-spot-welded, steel-wire mesh-grids The exterior grids (front, back, bottom, cover and side grids) are made with curved and welded eyelets, without protruding wire ends (inwardly bent). System with minimum risk of injury. Connection by means of locking rods.

Formwork grid with edge wire, connection made by means of helical rods.

The tensile grid - both sides with curved hooks - serves as a stiffening element for fixing the formwork grid and connect front and back grids

Standard basket sizes: Length: 100cm/150cm/200cm
 Width: 80cm/100cm
 Height: 50cm/100cm

Basket size: (LxWxH in cm) _____ cm

Mesh size: Eyelet grid (Exterior grid): 5x10cm/10x10cm
 Edge wire grid (Formwork grid): 10x10cm
 Hooked grid/ Edge wire grid (Tensile grid): 20x20cm

Wire size: Eyelet grid (Exterior grid): Ø4,5mm/Ø5,0mm
 Edge wire grid (Formwork grid): Ø4,5mm
 Hooked grid/ Edge wire grid (Tensile grid): Ø5,0mm

Locking rods: Wire-Ø 6,0mm

Helical rods: Wire-Ø 4,5mm

All items are made of Zn95%/Al 5% or optionally of Zn90%/Al10% wire, with a corrosion resistance of min. 3.000 h salt spray testing, according to DIN EN ISO 9227-NSS, with modified parameters as a minimum thickness of 350g/m² and a tensile strength of min.450 N/mm².

Manufacturer DIN EN ISO 9001- certified, as well as user of the Quality Mark GABIONEN according to Quality Assurance Gabions and Gabion Structures RAL-GZ 612 and holder of an ETA (European Technical Assessment).

Gabions have to be filled with hard and durable, sufficiently strong frost, weather and pressure resistant stone material. The grain size has to be bigger than the mesh size.

Total Height: up to _____ m
consisting of _____ pieces (LxWxH)/baskets

To install component parts and to fill with stone materials without voids according assembly instructions of supplier at construction site.

Noise protection properties according to report no. M161963/01/ Müller-BBM /22.04.2021:
Noise protection gabion for the reduction of passage sound

Application on road: **$DL_R = 49$ dB** (roads, DIN EN 1793-2), point 5.2,
Group B4

The minimum requirements according to ZTV-Lsw 06 [5] are thus fulfilled.

Application on railways: **$DL_R = 56$ dB** (rail, DIN EN 16272-2)
Requirements according to DB-guideline 804 fulfilled.

If the sound insulation core is made of concrete (usually C20/25),

Thickness of the concrete core: 20cm

Density of the concrete: $\rho = 2000$ kg/m³

(approach according to DIN EN ISO 12354-1 [2], Table B.3)

Examples of filling for noise protection purposes:

Sound-insulating and one-sided absorption variant

Filling material on the side exposed to sound:

Stone material with a grain size larger than 60mm/smaller than 150mm

On the side facing away from the sound,

stone material with a grain size larger than 60mm/

smaller than 150mm or dry masonry stones can be layered.

Sound-insulating and high one-sided absorption variant

Filling material on the side exposed to sound:

Foam lava with a grain size larger than 60mm/smaller than 120mm.

On the side facing away from the sound,

stone material with a grain size larger than 60mm/

smaller than 150mm or dry masonry stones can be layered

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or similar.