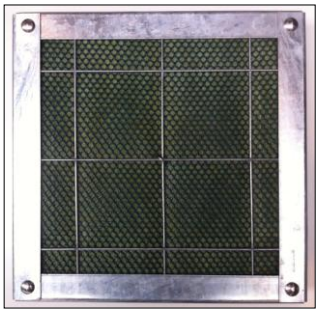
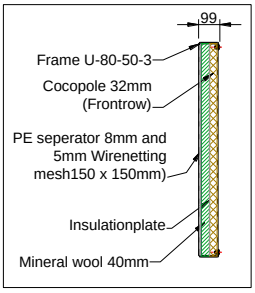
KOKOWALL® HA-M Noise Barrier

Technical Specifications KOKOWALL HIGH ABSORPTION – MINWOOL-A3

Frontside

Backside





Dimensions and pattern Kokowall HA Minwool Noise Barrier-A3:

- Standard pattern (HEA upright): $w_{pattern,standard\ HEA}$= panelwidht: 3.960mm (hoh. 4.000mm).
- Any other size smaller than 3,96 can be supplied
- Maximum height: h_{max} = 6 metres starting from ground level (3 stacked panels)
- For a Kokowall Noise Barrier measuring higher than 2,20 metres (starting from the ground level) the height is divided into 2 or more stacked panels.

Steel Construction, HEA uprights:

- *Style of Foundation column:*
  Taking into account the barrier's height, windload and soilconditions as from HEA120 up to IPE300 (or HEA240) are applicable – S235 hot-dip galvanised EN ISO 1461, DIN 17100 quality standard. Headplate d=20-25mm with slots for bolts.
- *Style of upright:*
  Taking into account the barrier's height, as from HEA120 up to IPE300 (or HEA240) are applicable – S235 hot-dip galvanised EN ISO 1461, DIN 17100 quality standard., with pre drilled mounting holes, diameter 8 mm, Optional powder coating in any desired colour., Footplate d=15-25mm with 90° slots for bolts.

Panels: *Kokowall HA Minwool Noise Barrier:*

- Framework made of cold-rolled U-80-50-3, profile S235, hot-dip galvanised EN ISO 1461, quality standard DIN 17100.
- Sound insulation, single number descriptor reading - NEN-EN-ISO-717-1: Rw= 30dB(a) - EN 1793-2, Category B3 ($D_{lr\alpha}$=27dB). Please see attachment TNO Sound Insulation reading.
- Sound Absorption, single number descriptor reading - NEN-EN-ISO-717-1: $D_{l\alpha}$= 11dB(a) - EN 1793-1, Category A3 . Please see attachment Peutz Lab Sound Absorption reading.
- At Kokowall side: ∅32mm cocopoles ± 23 psc. / m^1 / side
- In between a plastisol steelplate 0,75mm
- In between a layer of 40mm mineral wool, covered with a layer of PE seperator mesh 8mm, and a PP windsheet, color RAL6007 darkgreen of RAL7016 Anthracite grey
- At backside a 5mm galvanised wire netting mesh 15 x 15cm
- Mass of panels: 22–28 kg/m^2 depending on size
- *Dimensions panels: Standard HEA*

Standard width panel :	$w_{panel,\ stand}$	= 3.960
Allowable placement tolerance:	$T_{pl.panel}$	= 40 mm (in relation to $w_{pattern}$)
Maximum height panel:	$h_{panel,\ max}$	= 2.000 mm

Concrete gravelboard:

- Positioned under the panels for support and used for limited slopes. Enforced with 4 x concrete iron wire ∅8mm
- Standard Gravelboard 2.960 or 3.960 x 190 x 90mm (can easily be cut with a grinder to desirable size)

Joint materials:

- Attachment panels, per item: 8 x self-tapping hexagon shoulder pin ST.6,3 x 38 mm - DIN 7405K
- Attachment uprights, per item:
  4 x Bolt / Washer and Nut M16-M30 x 90 hexagon head hot dip galvanised, DIN 933 Quality 8.8

Synthetic material:

- Recycled fire-retardant ABS, pipes diameter ø32 mm, wrapped in coconut fibres with UV- stabilised multifilament PP threads.
- Compriband 15mm self-adhesive cellular rubber, between stacked panels.

Coconut:

- Only the longest and durable mattress fibres are applied. The applied coconut fibres are checked continuously in order to guarantee an EC (saline) content of < 0,5mS/cm.
- Coconut fibres serve as a bonding substrate for several climbers' aerial roots.
- Treated with Sepulchre Firestop. Fireproofed according to NEN6065 Flame Spread Category 2.

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