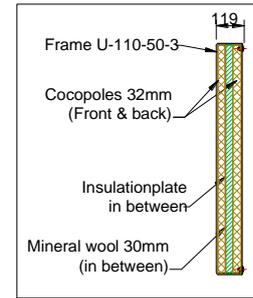


Technical Specifications KOKOWALL DOUBLE ABSORPTION –A3 NOISE BARRIER

Dimensions and pattern Kokowall DOUBLE ABSORPTION –A3 NOISE BARRIER

- Standard pattern (HEA upright): $w_{\text{pattern, standard HEA}} = \text{panelwidth: } 3.960\text{mm (hoh. } 4.000\text{mm)}$.
- Any other size smaller than 3,96 can be supplied
- Maximum height: $h_{\text{max}} = 6$ 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 min. HEA160 up to IPE300 (or HEA240) are applicable – S235 hot-dip galvanised EN ISO 1461, DIN 17100 quality standard. Headplate $d=20\text{-}25\text{mm}$ with slots for bolts.
- *Style of upright:* Taking into account the barrier's height, as from min. HEA160 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 $d=15\text{-}25\text{mm}$ with 90° slots for bolts.
- Optional: Uprights coated with double layer powdercoating in standard RAL colour.

Panels: Kokowall DA –A3 NOISE BARRIER

- Framework made of cold-rolled U-110-50-3, profile S235, hot-dip galvanised EN ISO 1461 quality standard DIN 17100. Optional frame coated with double layer powdercoating in standard RAL colour.
- Sound insulation, single number descriptor reading - NEN-EN-ISO-717-1: $R_w = 30\text{dB(a)}$ - NEN 1793-2, Category B3 ($D_{\text{ra}}=27\text{dB}$). Please see attachment TNO Sound Insulation reading.
- Sound Absorption, single number descriptor reading - NEN-EN-ISO-717-1: $D_{\text{ra}}=10\text{dB(a)}$ - NEN 1793-1, Category A3. Please see attachment TNO Sound Absorption reading.
- At front and backside a row of Kokowall cocopoles: Kokowall: $\varnothing 32\text{mm cocopoles } \pm 23 \text{ psc. / m}^1 / \text{side}$
- In between a layer of 40mm mineral wool and a plastisol steelplate 0,75mm,
- Mass of panels: 23–30 kg/m^2 depending on size
- *Dimensions panels: Standard HEA*

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

Concrete gravel boards:

- Positioned under the panels for support and used for limited slopes. Enforced with 4 x concrete iron wire $\varnothing 8\text{mm FeB500}$
- Dimensions 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 $\varnothing 32$ mm, wrapped in coconut fibres with UV- stabilised multifilament PP threads.
- Compriband cellular rubber, 15mm between stacked panels.

Coconut:

- Coconut fibres serve as a bonding substrate for several climbers' aerial roots.
- Treated with Sepulchre Firestop. Fireproofed according to NEN6065 Flame Spread Category 2.