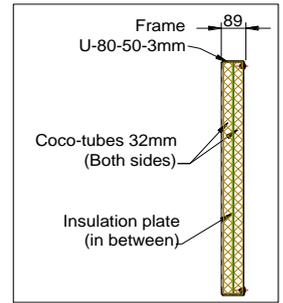


Technical Specifications KOKOWALL NOISE BARRIER –A2 with IPE upright



Dimensions and pattern Kokowall Standard Noise Barrier A2:

- Standard pattern (IPE upright): $W_{\text{pattern,standard IPE}} = \text{panelwidth: } 2,490\text{mm (hoh. } 2.500\text{mm)}$.
- Maximum pattern (IPE upright): $W_{\text{pattern,max IPE}} = 2,990\text{mm (hoh. } 3.000\text{mm)}$.
- Any other size smaller than 3,96 can be supplied
- Maximum panel height: $h_{\text{max}} = 2,2\text{m}$ starting from ground level
- For a Kokowall Noise Barrier measuring higher than 2,20m (starting from the ground level) the height is divided into 2 or more stacked panels.
- Maximum construction Height (IPE upright): $H_{\text{constr.,max, IPE}} = 2,5\text{m}$

Steel Construction, IPE uprights:

- **Style of Foundation column:**
Taking into account the barrier's height, as from IPE120 are applicable – S235 hot-dip galvanised NEN 1275 (EN ISO 1461) with pre drilled mounting holes, diameter 8 mm, DIN 17100 quality standard. Optional powder coating in any desired colour.
- **Foundation method**
The IPE upright is placed into a drilled hole of app. $\varnothing 20\text{cm}$, at a depth of 1 - 1,25m below ground level. After levelling the upright into straight and correct position pre mixed concrete (80kg) with water is used to stabilize the post.

Panels: Kokowall Standard Noise Barrier A2:

- Framework made of cold-rolled U-80-50-3, profile S235, hot-dip galvanised NEN 1275 (EN ISO 1461) , quality standard DIN 17100.
- Sound insulation, single number descriptor reading - NEN-EN-ISO-717-1: $R_w = 29\text{dB(a)}$ - NEN 1793-2, Category B3 (top category for sound insulation). Please see attachment TNO Sound Insulation reading.
- Sound Absorption, single number descriptor reading - NEN-EN-ISO-717-1: $D_{\text{a}} = 7\text{dB(a)}$ - NEN 1793-1, Category A2 . Please see attachment TNO Sound Insulation reading.
- At both Kokowall sides: $\varnothing 32\text{mm}$ cocopoles $\pm 23 \text{psc. / m}^2$ / side
- Between the to rows of cocopoles: a plastisol steelplate 0,75mm
- Mass of panels: 22–28 kg/m² depending on size
- **Dimensions panels: Standard IPE**

Standard width panel :	$W_{\text{panel, stand}}$	= 2,490
Allowable placement tolerance:	$T_{\text{pl.panel}}$	= 5-10 mm (in relation to w_{pattern})
Maximum height panel:	$h_{\text{panel, max}}$	= 2.200 mm

Joint materials:

- Attachment panels, per item:
6 x self-drilling hexagon shoulder pin ST.6,3 x 38 mm - DIN 7405K

Synthetic material:

- Recycled fire-retardant ABS, pipes diameter $\varnothing 32 \text{mm}$, wrapped in coconut fibres with UV- stabilised multifilament PP threads.
- Compriband self-adhesive cellular rubber, 15 mm 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 $< 0,5\text{mS/cm}$.
- Coconut fibres serve as a bonding substrate for several climbers' aerial roots.
- Treated with Sepulchre Firestop. Fireproofed according to NEN6065 Flame Spread Category 2.