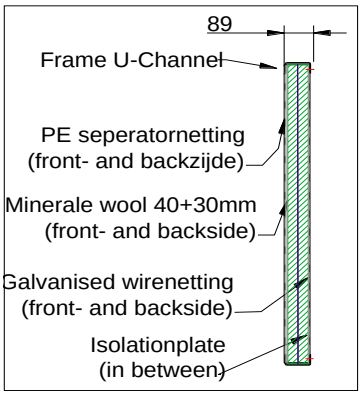
Technical Specifications NOISEREDUCER DOUBLE ABSORPTION DA-80_A3



Dimensions and pattern NOISEREDUCER® DA-80 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} = 7,7 metres starting from ground level (5 stacked panels)
- Maximum panel Height: $h_{panel,\ max,}$ = 1,50m

Steel Construction, HEA or IPE uprights:

Style of Foundation column:

- Taking into account the barrier's height, windload and soil conditions 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.
- Optionally two layer powder coated in any desired standard RAL colour (additional cost)

Panels: *NOISEREDUCER® DA-80 Noisebarrier*

- Framework made of cold-rolled U-80-50-3, profile S235, hot-dip galvanised EN ISO 1461, quality standard DIN 17100.
- Frame and/or wirenetting optionally powder coated in any desired standard RAL colour (additional cost)
- Sound insulation, single number descriptor reading - NEN-EN-ISO-717-1: **Rw= 30dB(a)** - EN 1793-2, Category B3 ($D_{lr\alpha}$>25dB). 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 TNO Sound Absorption reading. Against additional cost higher absorption >11dB cat. A4.
- Front (noise-)- and backside: a layer of 40 and 30mm mineral wool, covered with a layer of PE seperator mesh 5mm, colour dark green RAL6007 or anthracite grey RAL7016.
- In between a coated steel plate 0,75mm
- HDPE windsheet 180gr/m2 in matching colour between PE separator netting and wirenetting (standard)
- Front- and backside: a 6mm galvanised wire netting mesh 15 x 15cm
- Mass of panels: 25–34kg/m^2 depending on size
- *Dimensions panels: Standard HEA*

Standard width panel :	$w_{panel,\ stand}$	= 2.960 or 3.960
Allowable placement tolerance:	$T_{pl.panel}$	= 40 mm (in relation to $w_{pattern}$)
Maximum height panel:	$h_{panel,\ max}$	= 1.500 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:

- PE separator netting 2mm, perforation 5mm, UV stabilized, color darkgreen RAL6007 or antracitgrey RAL7016.
- HDPE windsheet 180gr/m2 in matching colour between PE separator netting and wirenetting, color darkgreen RAL6007 or antracitgrey RAL7016
- Compriband 15mm self-adhesive cellular rubber, between stacked panels.

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