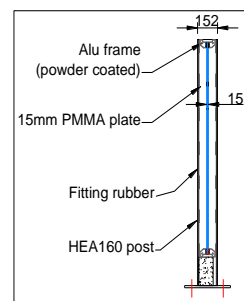


PMMA Transparent Noise barrier

Technical Specifications PMMA Transparent Noisebarrier-B3



Dimensions and pattern PMMA Transparent Noisebarrier-B3:

- 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 an transparent 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 $d=20\text{-}25\text{mm}$ with slots for bolts.
- *Style of upright:*
Taking into account the barrier's height, as from HEA160 up to IPE300 (or HEA240) are applicable – S235 hot-dip galvanised EN ISO 1461, DIN 17100 quality standard. Footplate $d=15\text{-}25\text{mm}$ with 90° slots for bolts.
- Optional powder coating in any desired standard RAL colour

Panels: PMMA Transparent Noisebarrier-B3:

- Framework made of Aluminium Extrusion Profile with rubber infills
- 15mm PMMA plate, extrusion quality, Poly(methyl methacrylate), acrylic glass.
- Plate optional with stripes or 'bird' images
- Frame powder coated in Standard RAL color.
- Sound insulation, single number descriptor reading - BS-EN-ISO-717-1: $R_w = 31\text{dB(a)}$ - EN 1793-2, Category B3 ($D_{\text{tra}} > 25\text{dB}$).
- Mass of panels: 20-24 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 gravelboard:

- Positioned under the panels for support and used for limited slopes. Enforced with 2 x concrete iron wire $\varnothing 8\text{mm}$
- 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: with rubber fitting
- 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:

- 15mm PMMA plate, extrusion quality, Poly(methyl methacrylate), acrylic glass
- Compriband 15mm self-adhesive cellular rubber, between stacked panels.