

Eikona MiniLine Loudspeaker

The Eikona MiniLine is a compact, transmission line loudspeaker designed to be stand-mounted. It provides surprisingly deep bass for the size of enclosure and yet is compact enough to be accommodated in any domestic listening room or small monitoring studio.

The MiniLine uses a Jordan Eikona full-range driver in a coupled cavity transmission line, carefully optimised to offer extension to below 50 Hz. The Eikona handles all frequencies from bass to treble, without the phase-distorting presence of crossovers. This gives the MiniLine unparalleled stereo imagery and musical coherence.

This cabinet is straightforward to build but to make it easy to adjust the internal damping, we recommend fitting a removable back panel, as shown in the plans. The battens should go along both sides as well as top and bottom panels, and should be made of 18 mm square section beech, oak or birch ply offcuts. Only use hard wood - softwood is not suitable. The panel should be sealed with foam draught excluder and screwed in place. If you prefer to permanently fix the back panel in place, you can omit the battens and reduce the depth of the final line section to 45 mm instead of 50 mm.

We highly recommend you use Mundorf Angel Hair for the line damping material. It should be well teased out and spread evenly throughout the cavity and line sections. Angel Hair expands after placement and will hold its position without further support.

Internal wiring should be taped in place and fixed with glue or silicon sealant (not pins). The aim is to prevent it from buzzing; once the cabinet is sealed, opening it to fix down a cable will be difficult.

We recommend fitting grilles over the Eikonas to protect them from enquiring fingers. The line exit should be fitted with an acoustically-transparent cover to deter wildlife from entering or the Angel Hair from escaping.

If the MiniLine is to be stand-mounted, we suggest a stand height of 600 mm.

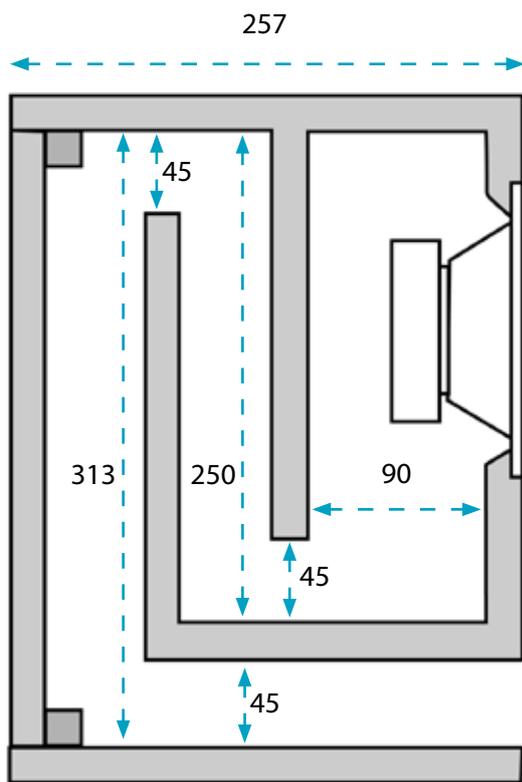
Specifications:

<i>Driver</i>	1 x Jordan Eikona full-range drive unit per cabinet
<i>Mounting</i>	cutout 115 mm diameter, rebate 150 mm diameter, 4.8 mm deep
<i>Fixing</i>	4 x 5 mm screws or Allen bolts into captive t-nuts Eikonas are supplied fitted with foam gaskets
<i>Material</i>	18 mm MDF or Baltic birch ply (recommended)
<i>Damping</i>	Mundorf Angel Hair, 20-25 gm per enclosure
<i>External size</i>	347 mm (h) x 186 mm (w) x 257 mm (d)
<i>Sensitivity</i>	86 dB/watt
<i>Power</i>	10 - 50 watts (100 watts peak)
<i>Impedance</i>	8 ohms nominal (minimum 6 ohms)

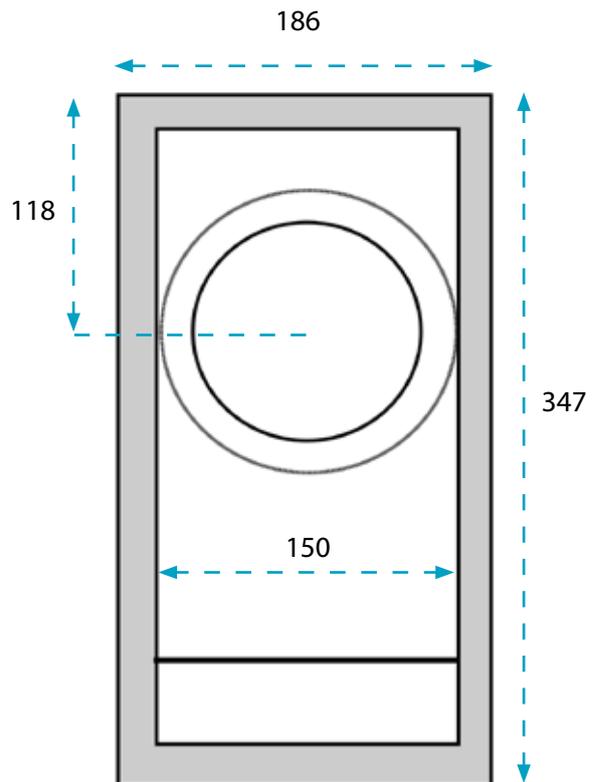


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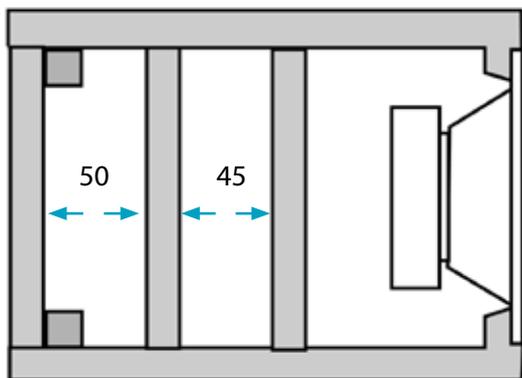
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SIDE



FRONT



PLAN

All measurements are in millimeters.

18 mm Birch Ply is recommended. Butt joints can be used but all joints must be airtight.

Corner battens are 18 mm square and run along sides, top and bottom of the rear panel to make the rear panel removable.

If a removable rear panel is not required, omit the battens and reduce the depth of the 50 mm line section to 45 mm and adjust the external depth to match.



EJ Jordan Designs

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