

Eikona TL3 Transmission Line Loudspeaker

The Eikona TL3 is a floor-standing enclosure designed to provide low bass and good power handling from a relatively small cabinet. The TL3 uses two Eikona full-range drivers in a tapered transmission line, carefully optimised to offer extension to 30 Hz. The absence of a crossover gives unparalleled stereo imagery and musical coherence.

This cabinet is straightforward to build with only one partition dividing the line. No reflectors should be fitted at the bend in the line as this will have no effect on the bass and only serve to reflect midrange sound up towards the line exit, situated at the top of the cabinet. Fit vertical braces between front and back panels and the partition (braced shown in yellow). These should run down the vertical centre line of the cabinet.

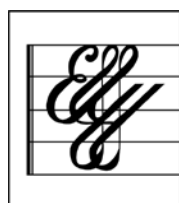
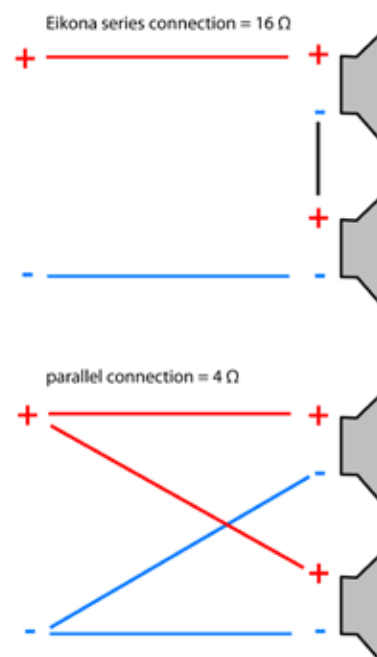
The recommended damping material should be well teased out and spread evenly throughout the two line sections. Work the damping around the braces; Angel Hair expands after placement and will hold its position without further support.

We recommend fitting grilles over the Eikonas to protect them from inquiring fingers. The line exit should also be fitted with a cover to deter ingress of adventurous wildlife. An optional plinth can be fitted to the base of the enclosure to increase height.

The Eikonas can be wired in parallel if your amplifier is designed to drive a 4 ohm load (the minimum impedance of the system is 3 ohm at 300-500 Hz). Alternatively, wire them in series for an easy 16 ohm load which is ideal for many tube amplifiers. The best performance is gained from fitting two sets of binding posts or sockets and using a separate power amplifier for each Eikona.

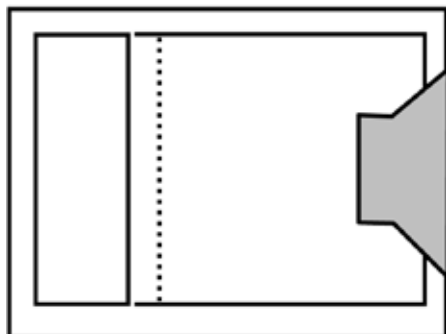
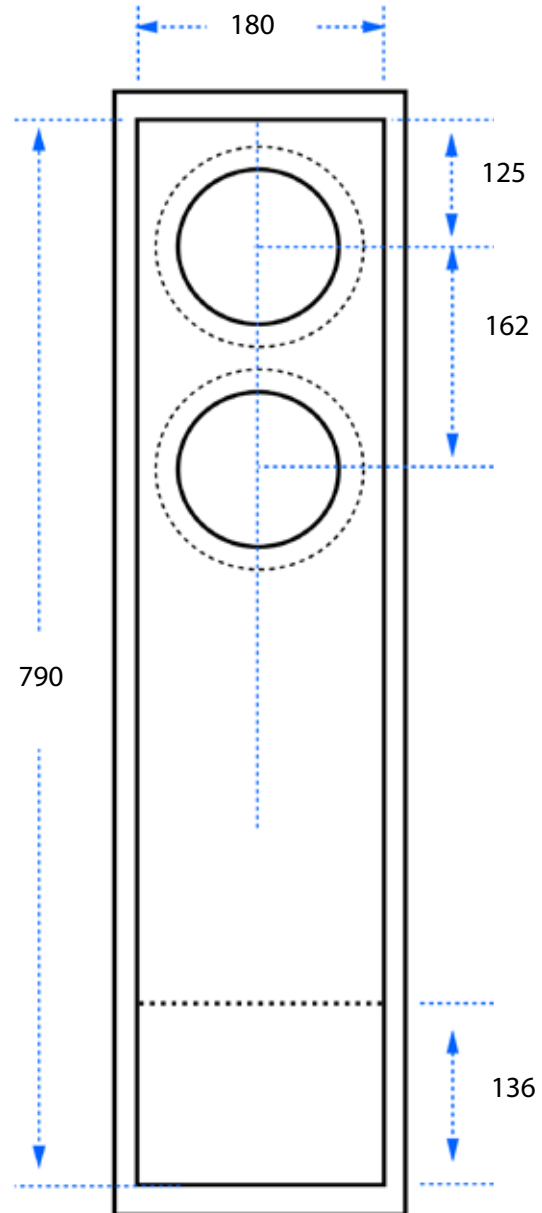
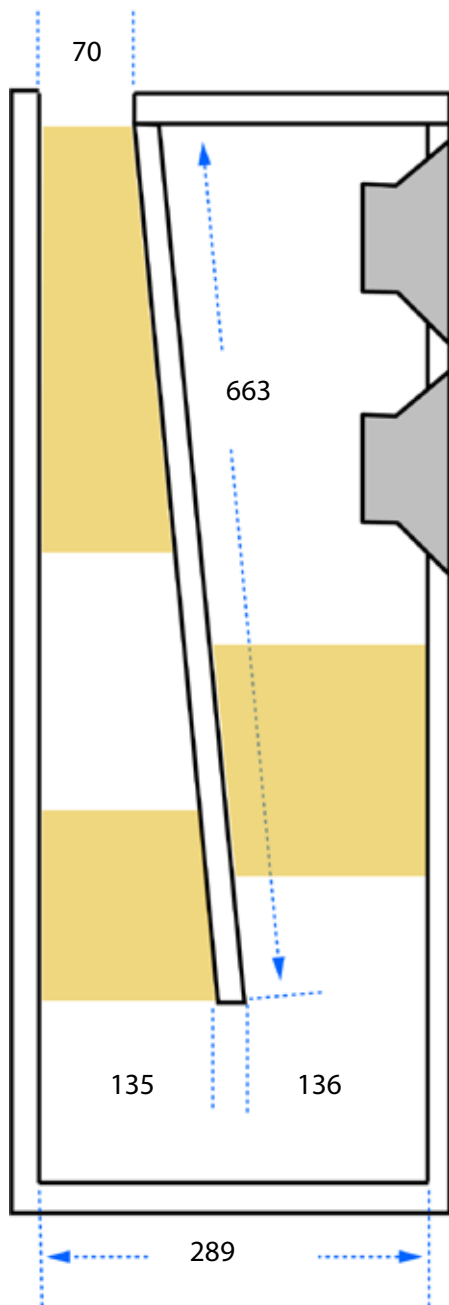
Specifications:

<i>Drivers</i>	2 x Jordan Eikona full-range drive units 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, 70-100 gm per enclosure
<i>External size</i>	826 mm (h) x 216 mm (w) x 325 mm (d)
<i>Sensitivity</i>	89 dB/watt
<i>Power</i>	10 - 100 watts (200 watts peak)
<i>Impedance</i>	4 or 16 ohms (nominal) depending on wiring



EJ Jordan Designs

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All measurements are internal and in millimeters. 18 mm material is recommended throughout. Butt joints can be used but all joints must be airtight.

The Eikonas should be centred (left-right) on the front panel with their respective centres as shown in the drawing above.



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