

ALPAIR 10



Simple Ported Reflex Box Plan



Markaudio's Alpair 10 simple box plan is designed for easy construction, suitable for audio builders with limited construction experience, but also those enthusiasts who enjoy creating high performance speaker system. Briefly, this plan will make a box with 13.46 litres internal volume suitable for use with our Alpair 10 full range drivers units. We recommend the following:

Construction

Make the panels using 20mm MDF or Marine Ply board. Thicker material can be used if desired. Jointing methods and joint positions are down to personal choice but we do recommend using a strong PVA glue and jigs or straps to tightly pull the joints together to prevent air leaks.

Ports

We've given a variety of sizes to help in the search for suitable material. PVC drain and waste pipes often work

well or pre-made ports can be bought from various audio accessory outlets. The port tuning frequency is 40Hz. You can vary the length and diameter to create alternate frequencies.

Sound Proofing

We recommend lining the internal walls of the box with 25mm (1") of sound proofing foam. This material is available from many audio accessory outlets or sound proofing merchants. We don't recommend using a loose material which could impact of the rear of the driver cone, or block the free air between the driver and the port.

Fitting Out

Carefully install the driver. **DON'T TOUCH THE CONE.** It's thin material is easily damaged if pressed. Use some sealant or buy our custom rubber seal to fit behind the driver frame. Use good binding posts (Markaudio makes sets of gold plated posts – see web store page) and decent wiring. Soldering the electrical connections is strongly recommended (see Markaudio's [soldering page](#)).

Finishes

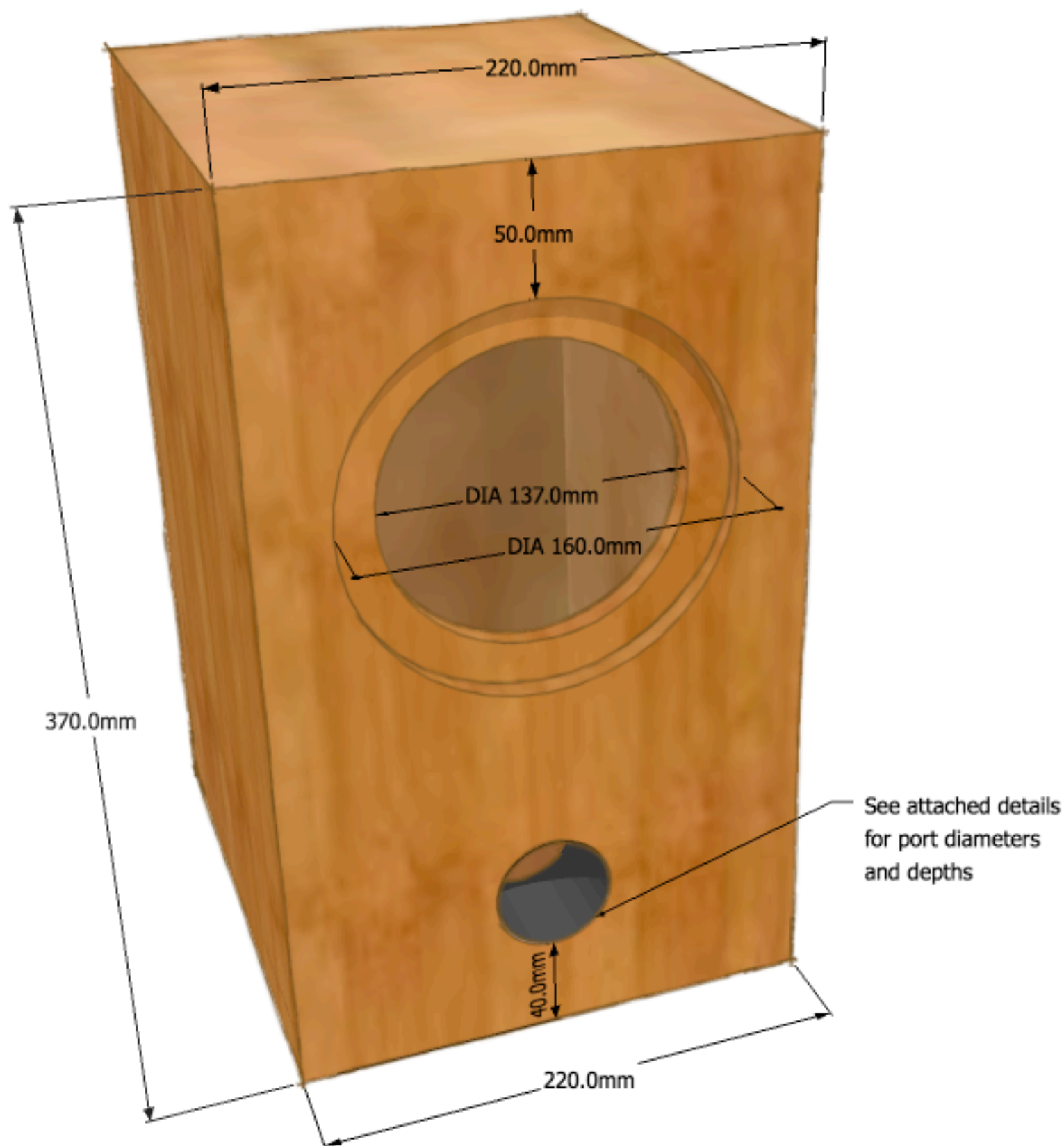
MDF or Marine Ply is great for painting, applying PVC or wood veneers, just about anything you like.

Have fun and enjoy the music:

ALPAIR 10



Simple Ported Reflex Box Plan



ALPAIR 10



Simple Ported Reflex Box Plan

