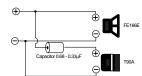


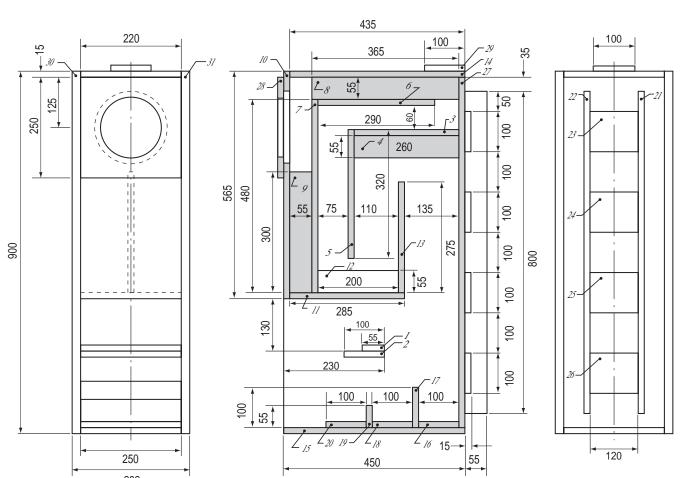
FE166E

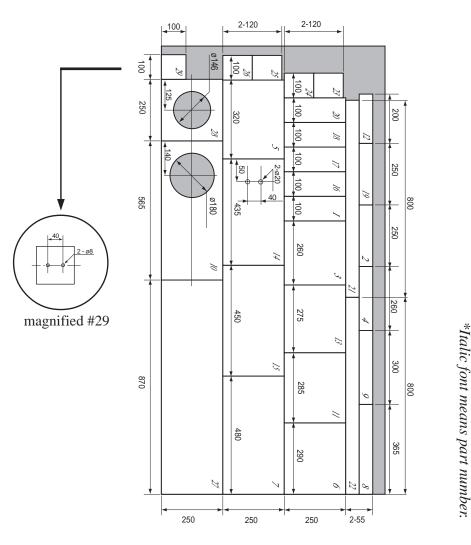
Recommended Back Loaded Horn Type Enclosure

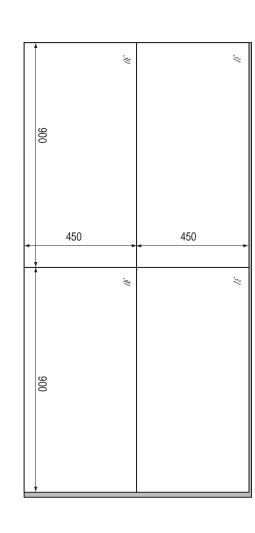


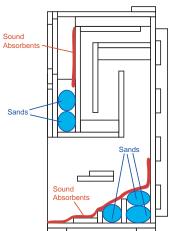
- This example shows a 'back loaded horn' type enclosure for FE166E.
- FE166E's magnetic circuit with ø110mm large ferrite magnet provides sharper resonance and makes the unit suitable for a back loaded horn.
- 110 90 80 70 (dB) 20Hz 50 100 200 500 1000 2k 5k 10k 20k
- 15mm thick plywood panels are used for the main section and 21mm thick plywood for the side panels to ensure a strong enclosure.
- Two way system using super tweeter T90A is also recommended.











- This example has sufficient internal volume. However, if you prefer 'tighter' sound reproduction, you can reduce airspace using sands or other fill material.
- Placing thin sound absorbent material as shown enables reduction of peaks & dips around 150 to 400Hz band width. However, it may reduce transient response. You should adjust it to your taste.
- In order to avoid unwanted mid/high frequency dispersion of the horn, we recommend damping the enclosure with filler and sound absorption material.
- FE166E is designed for a back loaded horn type enclosure. It is generally unsuitable for bass reflex type enclosure use because of its over damping sound characteristics. However it is possible to use the FE166E in a bass reflex type enclosure as shown.
- This example is a narrow and tall style bass reflex type enclosure. Internal volume is 15 liters tuned to approximately 65Hz (Fb).
- Low frequency response from around 150Hz is gently damped with a controlled peak at 60 to 80 Hz.

