

## Instruction for loudspeaker kit

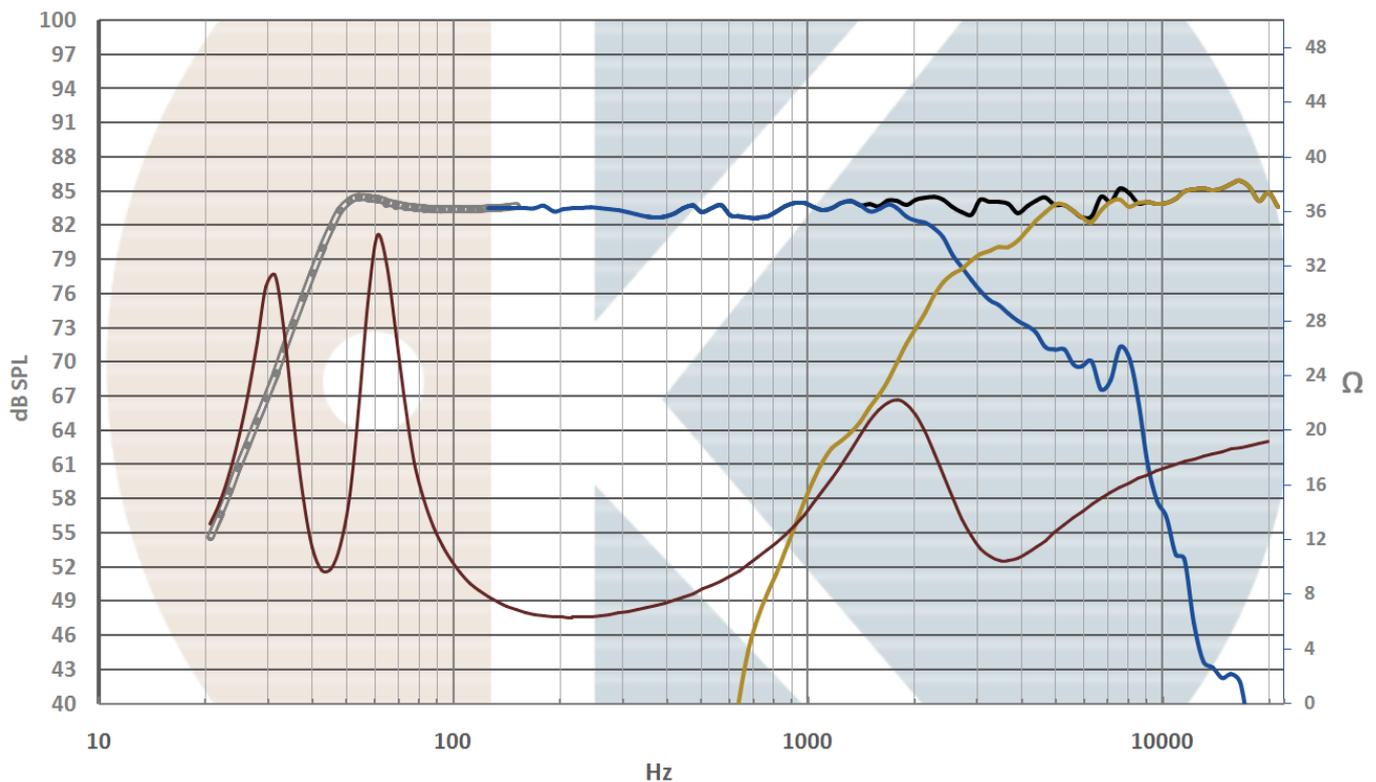
Kourtisane 4.2 is a loudspeaker kit dedicated to audio systems passionate, DIYers, music lovers. It can be used as compact Hi-Fi stereo system, Home theater speaker, or studio monitoring speaker.



### The required Cartesian components are:

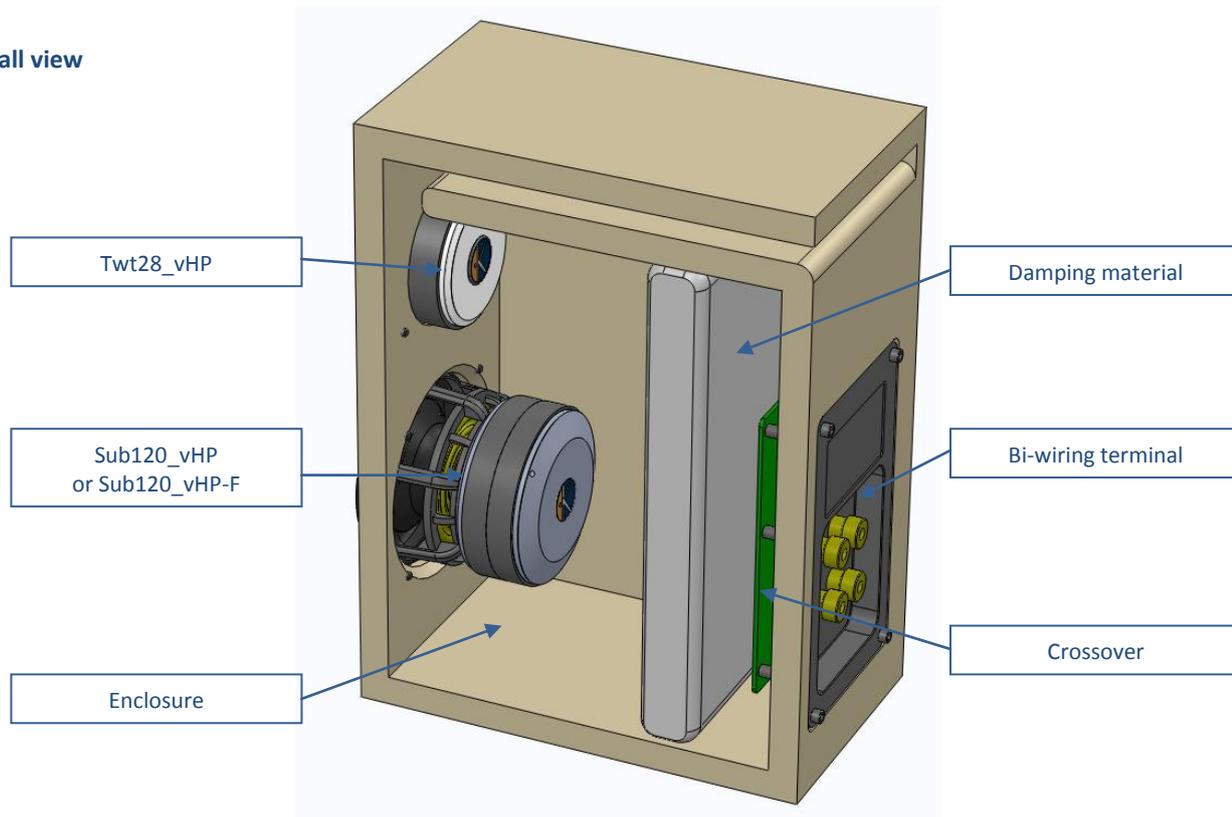
- Sub120\_vHP (or Sub120\_vHP-F)
- Twt28\_vHP
- Crossover Kourtisane 4.2
- Terminal Bi-wiring terminal

Enclosure must be built according to following drawing.



*Kourtisane 4.2 / Distance: 1m / Signal input: 2,83V / On axis  
Impedance measured in Kourtisane 4.2 / Smoothing: 1/6 Octave  
Curve below 150Hz is simulated in 5.5L vented enclosure, Fc = 48Hz  
(Kourtisane 4.2)*

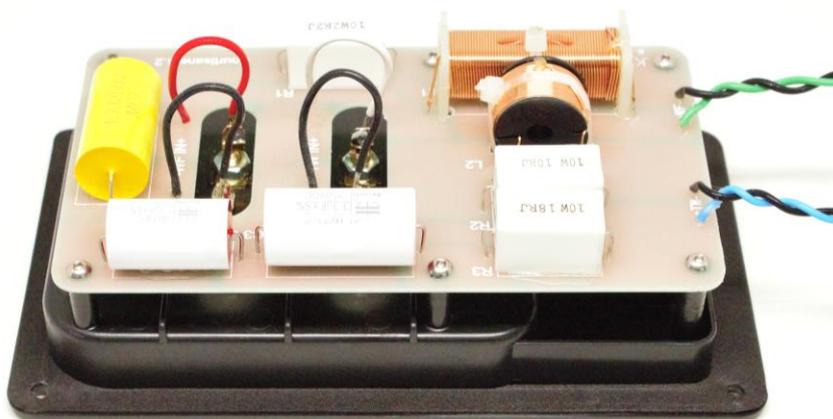
## Overall view



### Crossover kit.

Wires to connect loudspeakers and terminal are included on crossover (Silver plated cooper)  
 Low-pass filter is 1<sup>st</sup> order with impedance correction / High-pass filter is a 3<sup>rd</sup> order with L-Pad attenuation.  
 High quality capacitors are used for the high-pass filter.

The PCB is designed to be screwed on Kartesian terminal as shown below (separately sold).



### Damping material

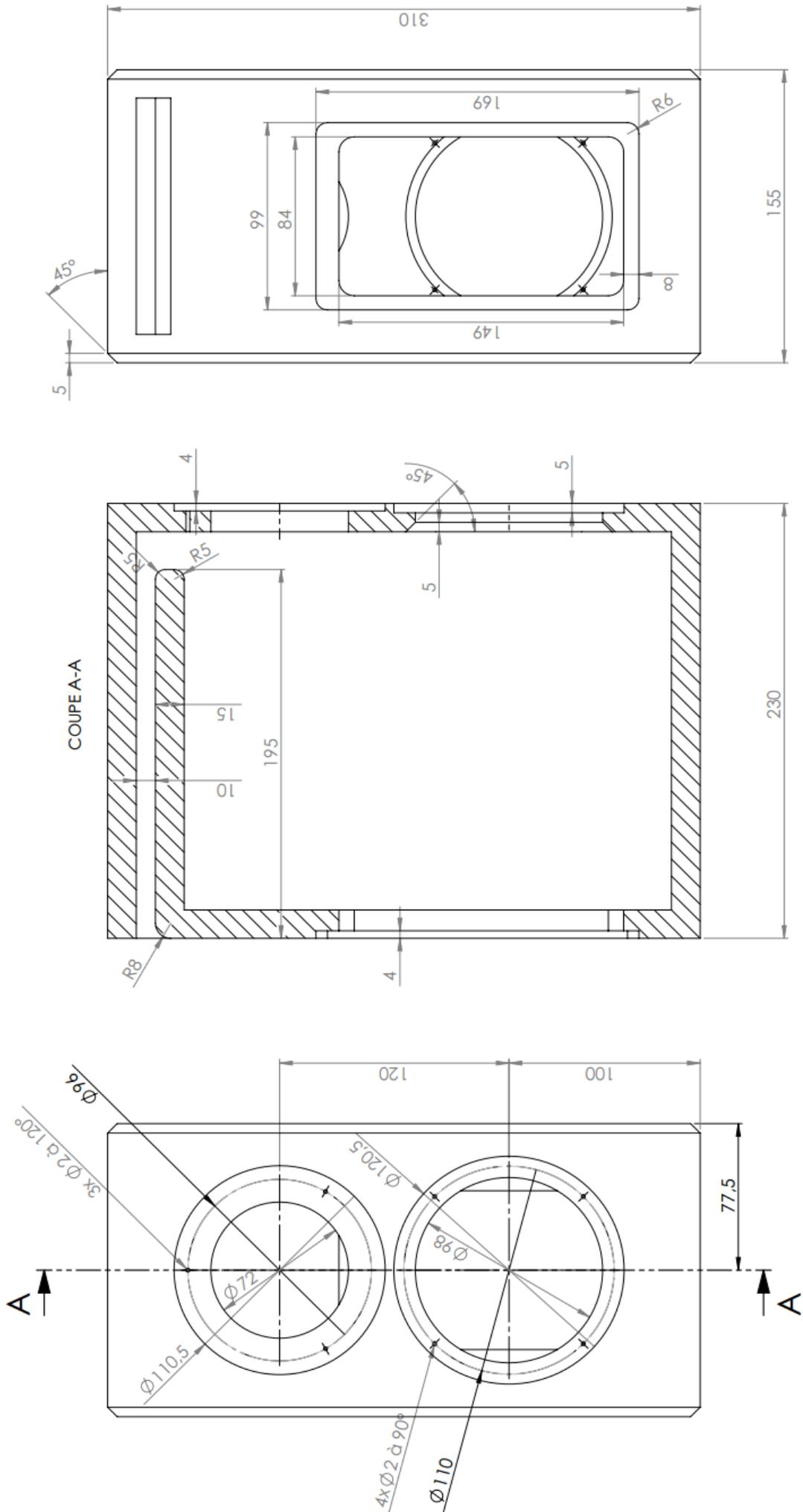
We recommend to used synthetic acoustic damping  
 2 sheets of 130mm x 280mm, thickness 30mm provide good compromise for bass extension and control.  
 Additional damping will slow down the air velocity and decrease the energy in low frequency.



# Drawing

Material : MDF, thickness : 15mm

Unit : mm



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