Pluvia Seven P MICA

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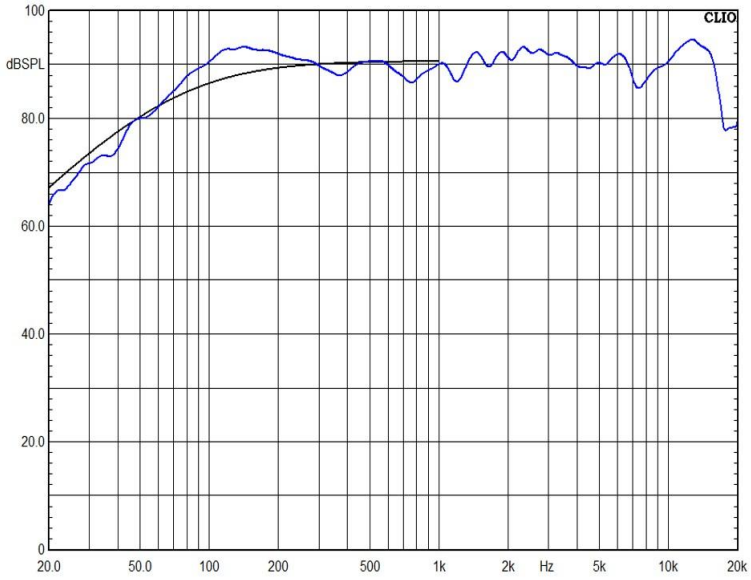
The Pluvia 7P MICA builds on the success of the 7PHD, offering a refined tonal balance tailored for broader international appeal. Developed with input from European and North American listeners, the MICA version features a custom paper cone infused with mica particles (visible in person and the photographs) to enhance stiffness and reduce breakup modes, resulting in improved clarity and transient response.
Its frequency balance is more linear across the midrange and treble, with a gently extended high-frequency output for greater detail and air.

The low-mass coil, precision suspension, and open-frame design remain consistent with the Pluvia series, ensuring excellent airflow and mechanical control.

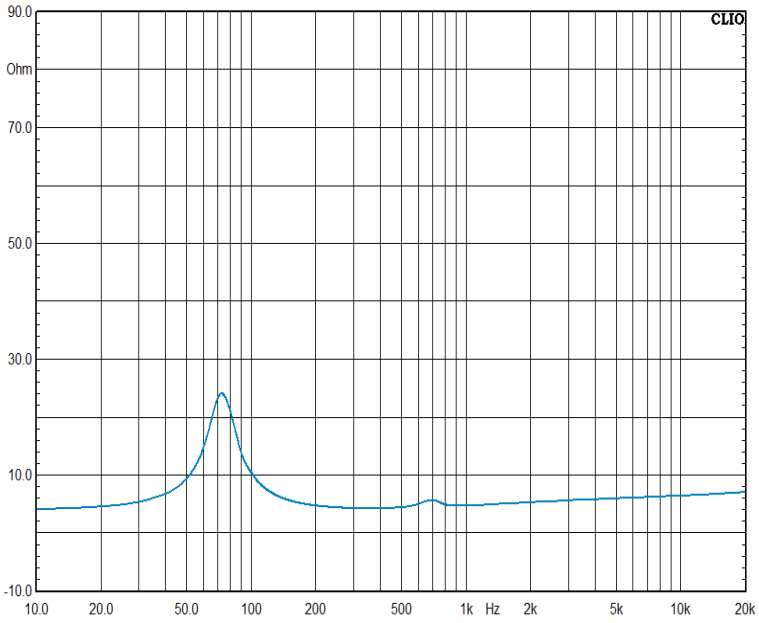
F Zero is 72Hz, VAS is +4.5 Liters, and SPL is 90.644dB. Depending on enclosure design, the system delivers broad, full-range, ensuring dynamic performance across a wide variety of applications. The frequency response curve is near flat, making the Pluvia 7P MICA ideal for purist applications.

The MICA cone's output is "analogue" in character, helping to provide some balance to contemporary digitized recordings that might include some level of compression.

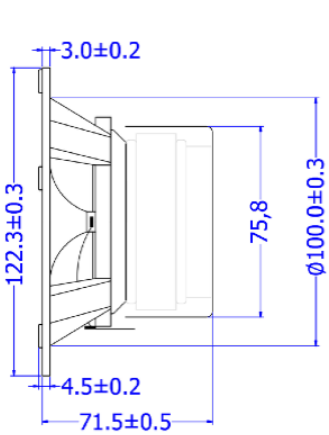
Enthusiasts seeking a natural tonal balance with articulate vocals and crisp imaging—especially those using solid-state or hybrid amplification—will find the Pluvia 7P MICA a compelling choice.

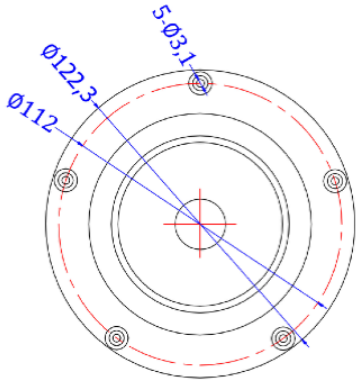


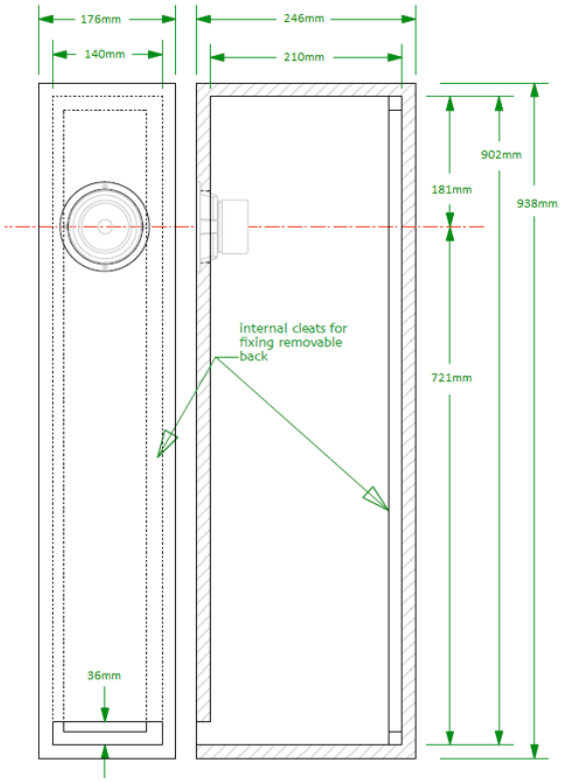
The frequency response above shows the measured anechoic axial sound pressure level using a standard IEC test baffle. Input 2.83v RMS, microphone distance 0.5m, SPL normalized to 1m value. The grey line is the calculated low-frequency infinite baffle response from the parameters given in this datasheet. Impedance is measured in free space with a 1v input signal.



FS	72.2524 Hz
VAS	4.4592 L
RE	3.3 ohms
QMS	3.3897
QES	0.5483
QTS	0.472
SPL	90.644dB 1m/2.83v
SD	0.0050 m2
CMS	1.2639 mm/N
MMS	3.8390 g
RMS	0.5142 WM
MMD	3.6373 g
BL	3.2386 Txm
L1kHz	0.0388 mH
L10kHz	0.0378 mH
X Max	4mm (1 way)
PWR	20 Watts (Nom)







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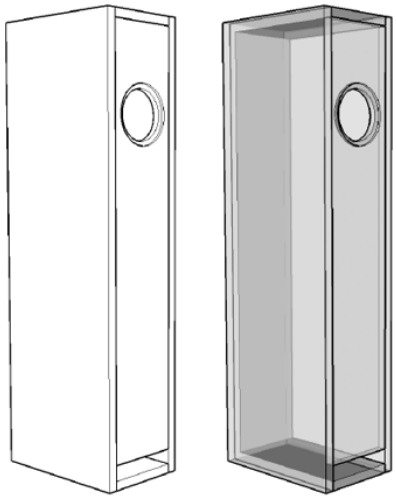
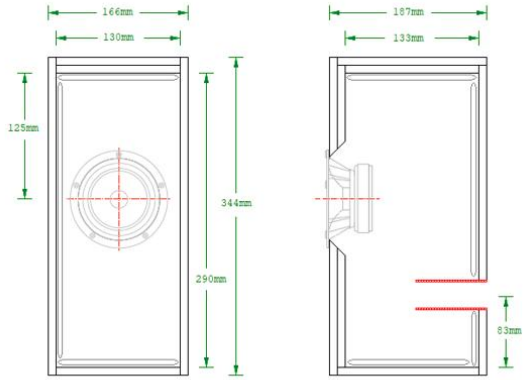
Pensil 7P-Mica | Pluvia 7P-Mica

designed by S Lindgren drawn by dld
05-October 2025



Notes:
0/ drawing uses 3/4" (19.1mm) material. 18-20mm OK. Quality multi-ply recommended
1/ stuff with 0.7 lbs / ft^3 (14.5 ounces = 406 g) of polyfill
2/cleats on back to allow for removable back, useful for adjusting the stuffing
3/ bracing is optional. For bracing ideas plase see the bracing sheet in the superPensil12 plans



Traditional Compact
Ducted-vent standmount
for
Markaudio Pluvia 7P-Mica

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Notes:
0/ 18mm sheet build material assumed. MDF acceptable, quality void-free multiply recommended
1/ Front & top baffles doubled for increased rigidity [optional]
2/ Bracing not shown but recommended.
3/ Chamfer / relieve driver cutout to reduce reflections & enhance airflow
4/ Top, base, rear & one side baffle lagged 12mm - 20mm rigid fibreglass board @ 3 lbs/ft^3 rating, soft wool felt, recycled denim, jute or 30mm BAF. Avoid acoustic foam

Design assumes voltage source amplifier with 1/20hm series R for typical wire loop, connection losses

Fb = 72Hz
F6 = 67Hz [nominal anechoic]
F10 = 59Hz [nominal anechoic]

Vent options [diameter x length, untapered ducts]

01/ 30mm x 72mm
02/ 35mm x 101mm

Note: to maintain correct tuning, do not mix vent diameter x length values

Vent may be placed on the front baffle at same distance from internal base.

Please note sketch indicative of configuration
& not shown to precise scale