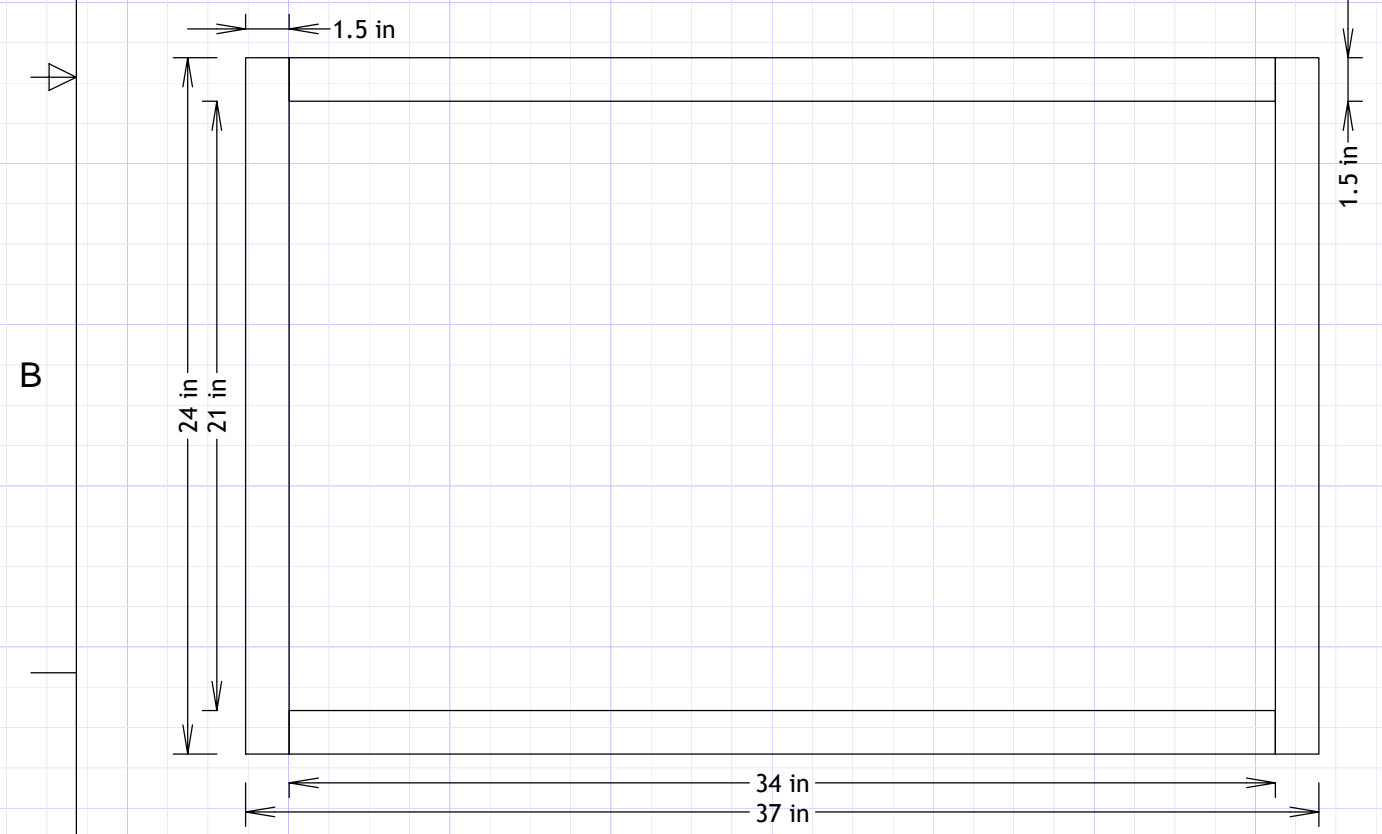


# 100 Hz. Helmholtz Resonator

## Notes -

- 6.75 in port shown is for 100 Hz.
- Frame is made from standard 2 X 4 lumber
- Front and back are made from 3/4 in. plywood, thin ply Baltic birch ply preferred
- All interior joints are caulked with acoustical caulk, such Henkel OSI SC175
- Port is covered with 1/4 in or greater hardware cloth (wire mesh) on the inside
- Panel with port is either caulked as above, or gasketed using 3M 130C splicing tape or eq. to allow removal
- Assemble with glue and woodscrews
- Finish as desired; do not cover port
- Use small feet or casters to lift off floor, as desired
- Install with port facing wall, near corner with 1 in. to 2 in. gap
- Do not fill interior with any absorbent material



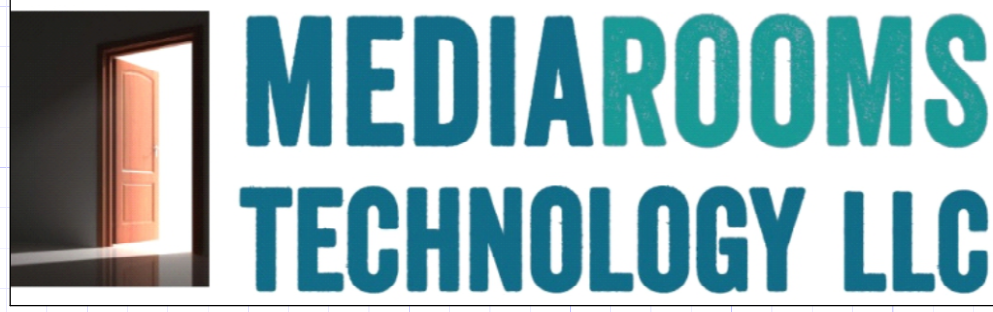
## Alternate Port Diameters

- 60 Hz. - 2.75 in.
- 70 Hz. - 3.5 in
- 80 Hz. - 4.5 in.
- 90 Hz. - 5.5 in.
- 120 Hz. - 9.5 in. circle

Note that for frequencies above 120 Hz. the resonator should be made smaller, rather than increasing the port diameter on this particular set of resonator dimensions.

Note that if the frequencies of the room resonances are unknown, the 90 Hz. or 100 Hz. ports will provide a good general purpose resonator.

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<b>MediaRooms Technology</b>			
TITLE			
<b>Resonator - 100 Hz.</b>			
SIZE	CAGE CODE	DWG NO	REV
B			1.0
SCALE		Bruce Black	SHEET 1 of 1