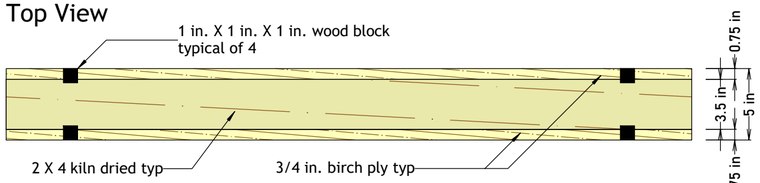
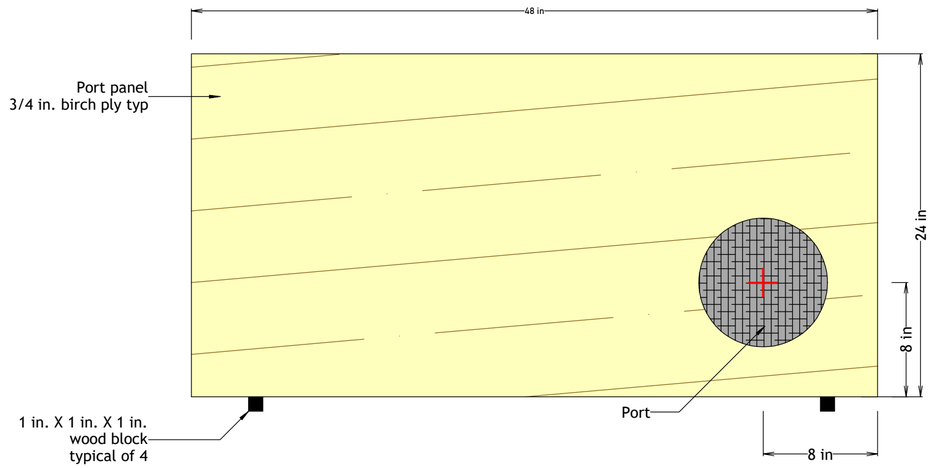
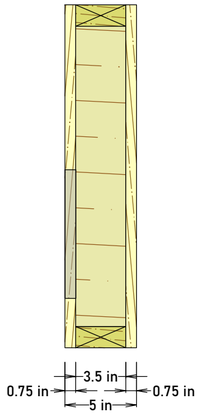
Top View



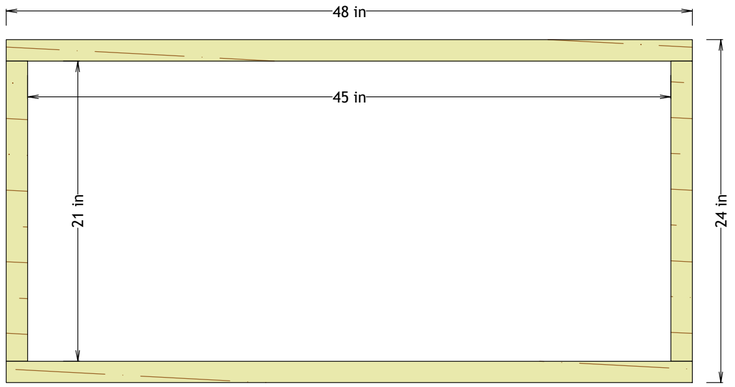
Face View



Side View



Frame View



Notes -

Assemble with baltic birch 3/4 plywood and kiln dried 2 X 4s
Project allows using 4 ft. X 2 ft. "project board" 3/4 plywood
    without cutting or a standard 8 ft.X 4 ft. plywood sheet cut
    into 4 eqaul pieces with no waste
Port sizes -
    30 Hz. - 1-3/8 in.
    40 Hz. - 1-7/8 in.
    60 Hz. - 3-1/2 in.
    70 Hz. - 4-1/2 in.
    80 Hz. - 5-7/8 in.
    90 Hz. - 7 in.
    100 Hz. - 8-1/2 in.
Center all port sizes on red cross
Port illustrated is 9 in. (maximum) size
Cut port with hole saw or jig saw
Cover port with 1/2 in. hardware cloth to keep pets out
DO NOT put any absorptive material inside
Install 3M 130C Linerless Rubber Splicing Tape on frame edge
    that mates with port panel to serve as gasket
Caulk all other internal seams with acoustic caulk
Screw port panel to frame - do not glue
Glue and screw the rest of the assembly
Install screws every 4 in.
Use of glue blocks suggested
Mount on rubber feet or 1 X 1 X 1 wood blocks for stability
Finish as desired with paint, fabric, or whatever, but
    DO NOT COVER THE PORT
Install with port facing a wall, with 1 to 2 in. clearance to
    allow the free airflow to the port
Leave 1 to 2 in. around sides, top, and bottom to allow port
    to breathe properly
Face into bicorner or tricorner for better performance
    (bicorner = 2 room surfaces meet)
    (tricorner = 3 room surfaces meet)
Resonator may be mounted horizontally or vertically; move
    1 X 1 X 1 blocks to appropriate location

BE SURE TO READ ALL NOTES FOR PROPER CONSTRUCTION AND INSTALLATION!

MEDIAROOMS TECHNOLOGY LLC

P.O. Box 106 • Ventura, CA 93002
admin@MediaRoomsTech.com • 805-653-5557
www.MediaRoomsTech.com

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TITLE: Helmhotz Resonator Using Project Boards

SIZE	CAGE CODE	DWG NO	REV
C			1.0

SCALE		SHEET
1 : 8	Bruce Black	1 of 1