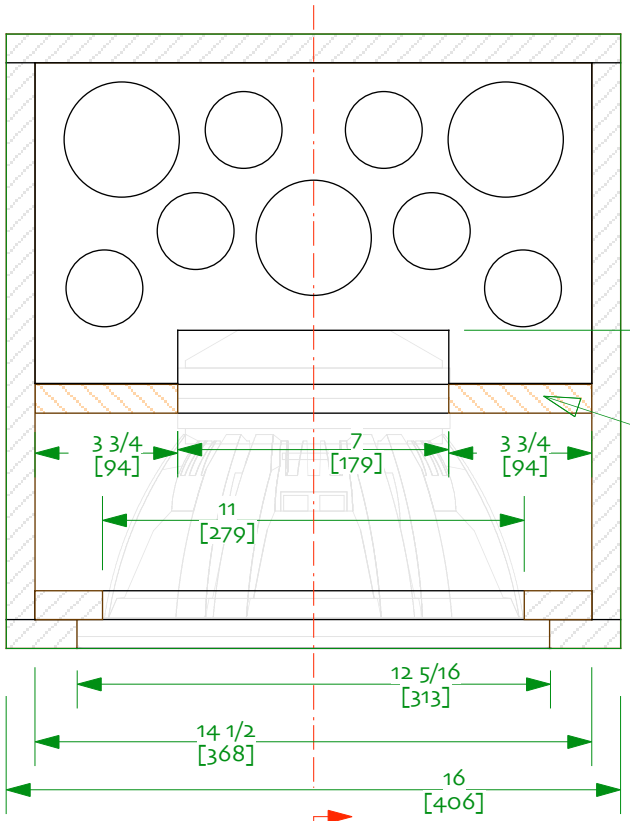
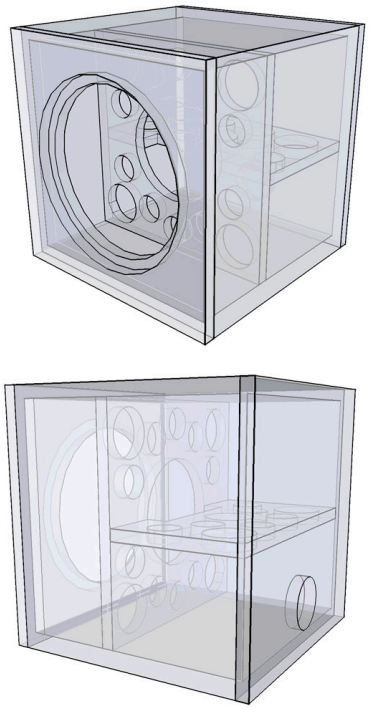
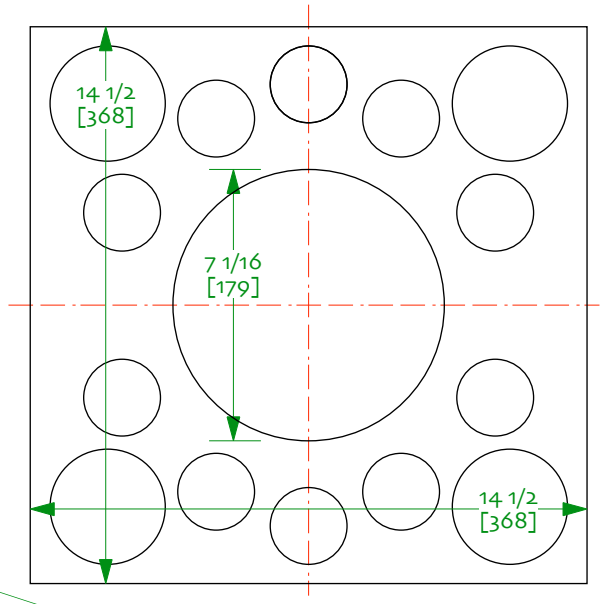
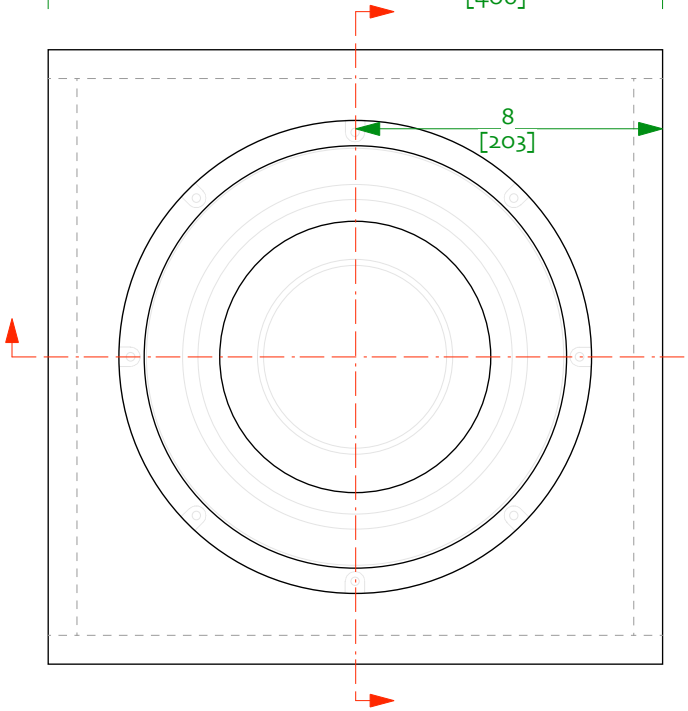
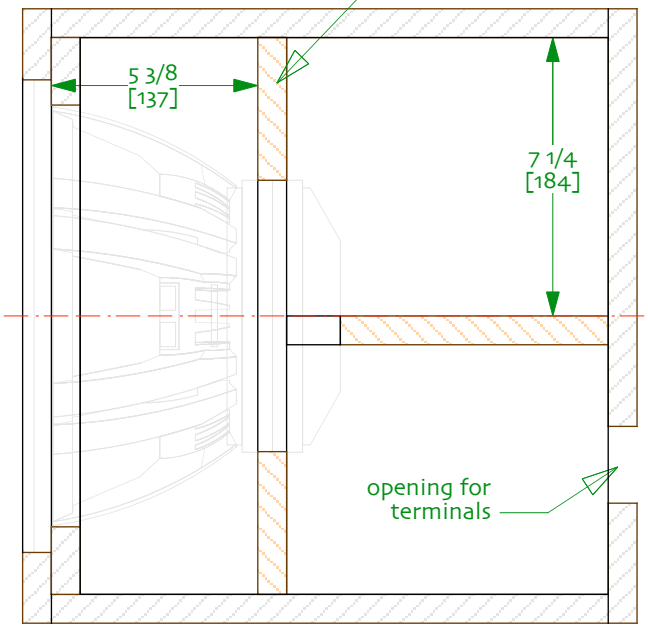






internal magnet brace





Notes:

0/ drawn with 3/4" (19mm) material

1/ magnet brace should fit tightly. The centre hole is critical, the smaller holes don't need to follow any pattern -- you just want to have lots of holes (irregular is probably better than regular). The back brace extends to meet the magnet brace & the magnet

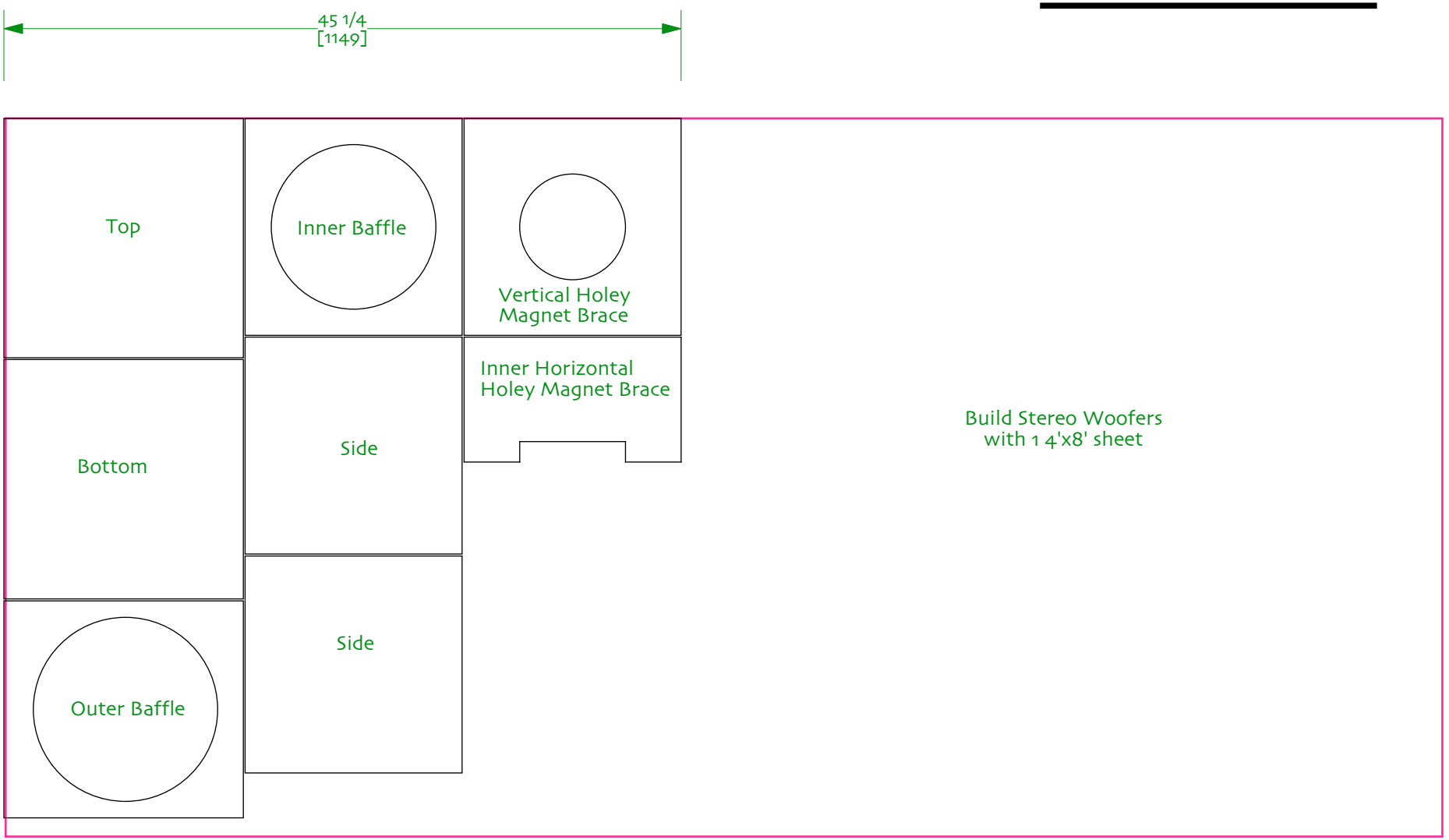
2/ designed for external amplifier. If internal amplifier used increase the volume to accomodate volume of amplifier

3/ double front flush mounts driver

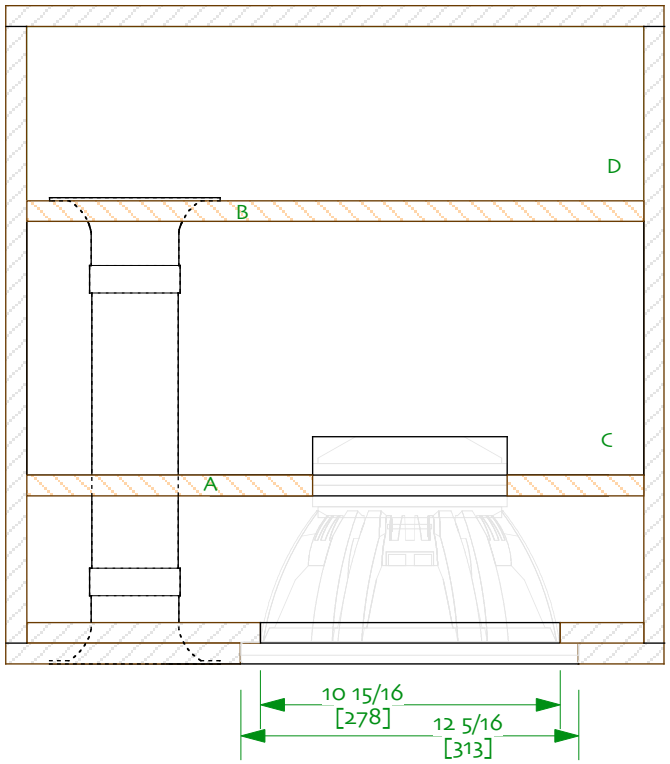
4/ damping material is optional, but recommended. Walls lined with fiberglass or a light fill of polyfluff

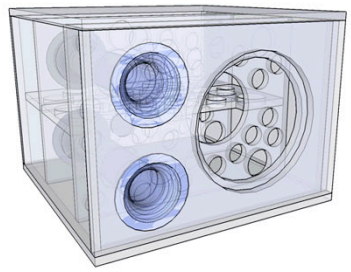
SD12 SubDuction 16" Sealed Cube
29-march-06
drawn by dld

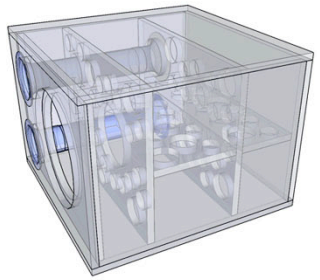
SD12 SubDuction Sealed
Reference design
sheet 2 – suggested cut plan
29-march-07
drawn by dld

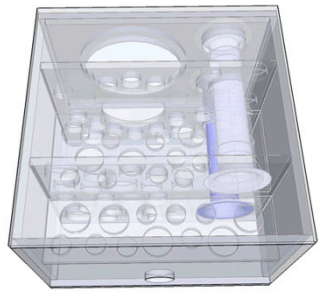


SD12 SubDuction Bass Reflex
4 cubic feet reference design
sheet 1
25-march-07
drawn by dld









Notes:

0/ drawn with 3/4" (19mm) material. Units to the closest 1/16" or 1 mm

1/ some tolerances (ie magnet brace, port mounting) are quite small, dry fit before assembly.

2/ Ports must be assembled in the box after the front panels & braces are installed and before the last piece (top or bottom)

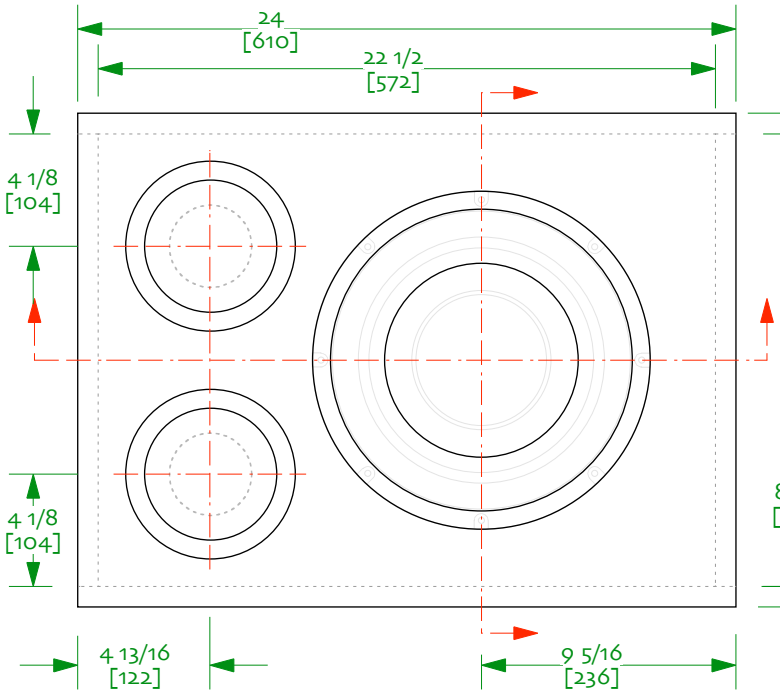
3/ see sheet 2 for brace & port details

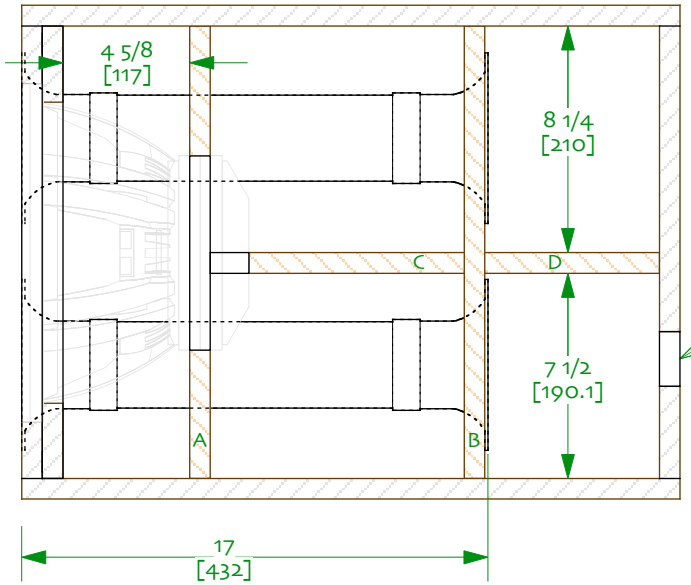
4/ designed for external amplifier. If internal amplifier used increase the volume to accomodate volume of amplifier (see other versions for guidance)

5/ double thickness front baffle flush mounts driver

6/ damping material is optional, but recommended. Walls lined with fiberglass, wool felt or poly batting

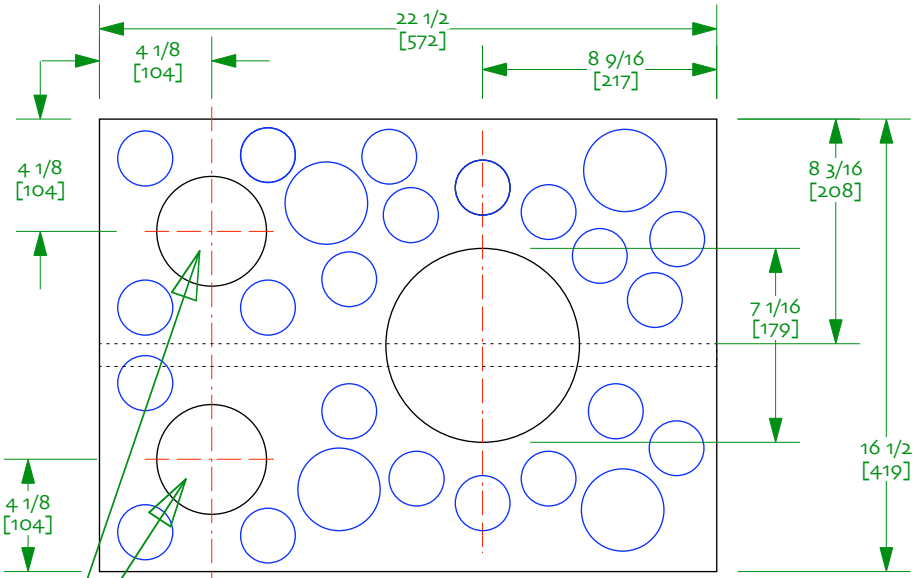
4/ woofer cabinet can be oriented as shown, or with any side as the bottom





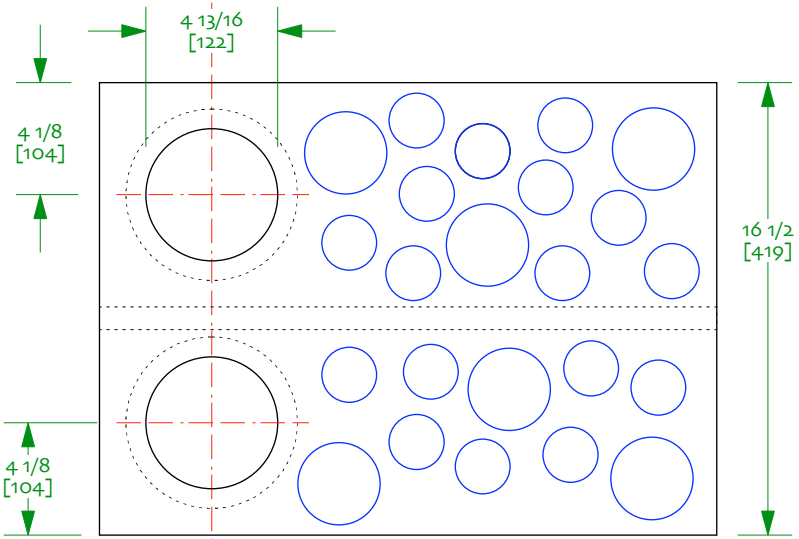
opening for terminals can be placed anywhere on the back panel

SD12 SubDuction Bass Reflex
4 cubic feet reference design
sheet 2 – details
29-march-07
drawn by dld



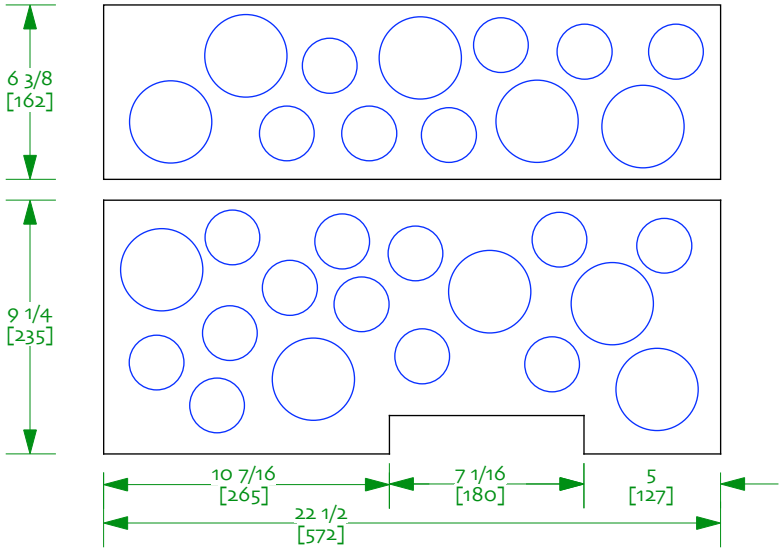
A/ internal magnet brace. Cutouts (black) for ports & magnets need to line up, holes for air passage (blue) are random

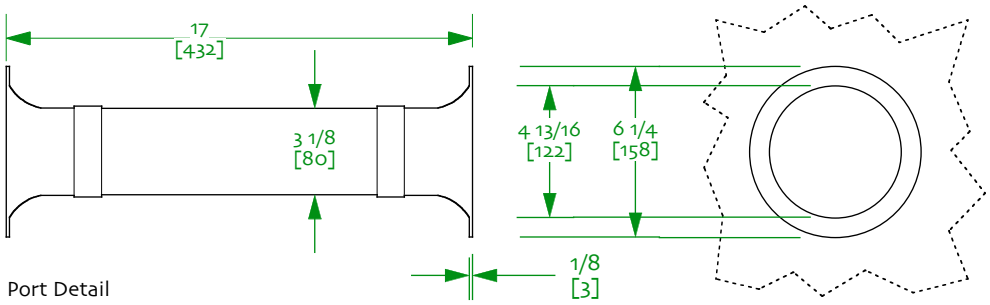
these holes need to be sufficiently large to allow the port tube to be passed through it. (port tube needs to be assembled in the box)



B/ 2nd vertical internal brace. Cutouts (black) need to alighn with the pot cutouts on the front of the box. The inside ends of the port attaches to the rear side of this brace (rebate not required), holes for air passage (blue) are random

C (bottom) & D (top) These brace the magnet to the back of the enclosure, holes for air passage (blue) are random. Speaker magnet needs to fit snuggly into the cut-out

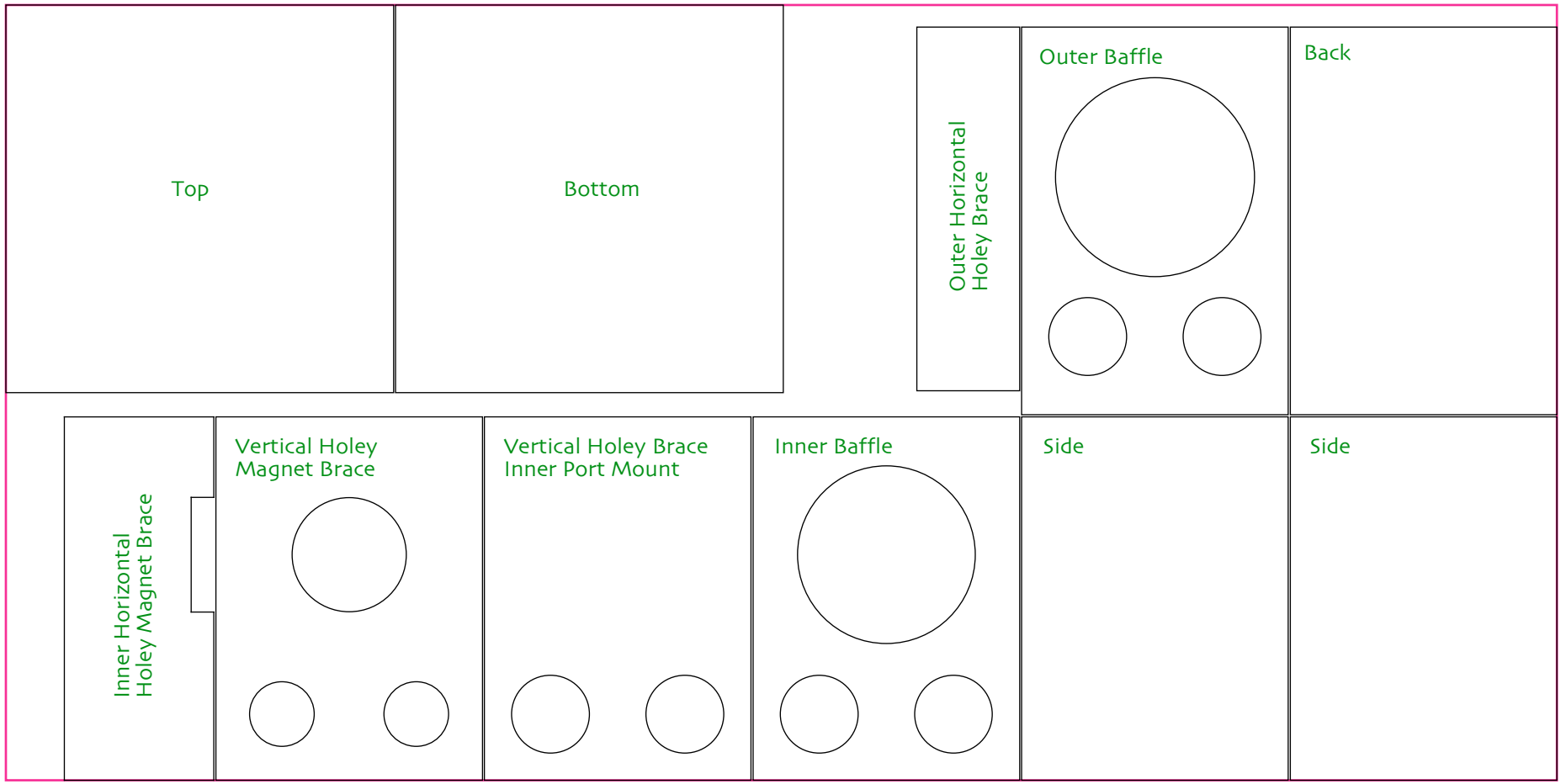


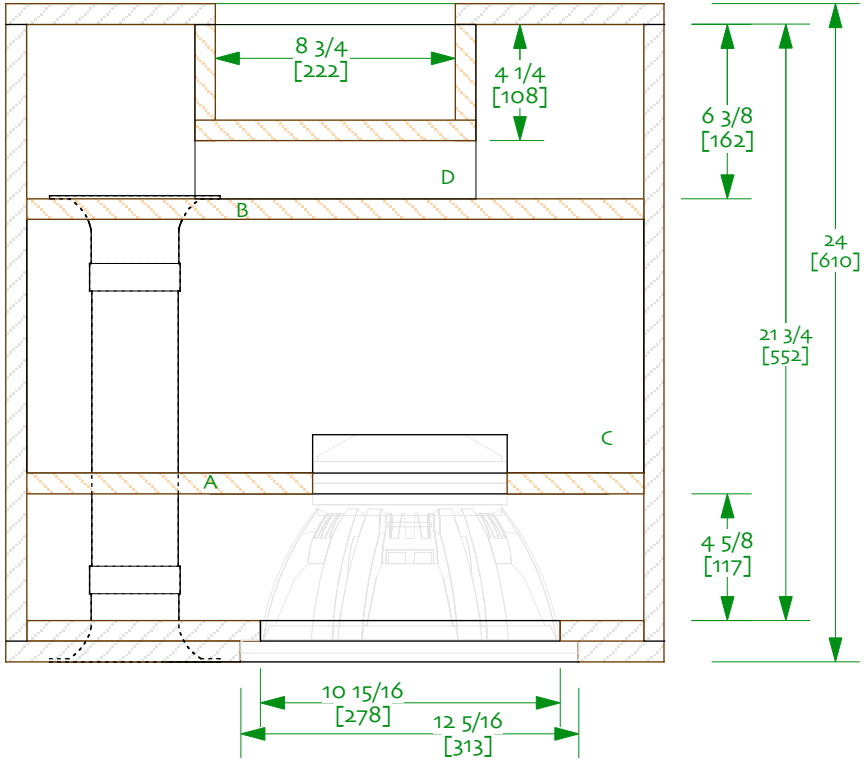


Port Detail

The port should be rebated into the front panel. The rebate should be 1/8" (3mm) plus an allowance for a gasket. The rear flange of the port mounts to the rear-most vertical brace to give symetrical air load to the port.

SD12 SubDuction Bass Reflex
4 cubic feet reference design
sheet 3 – suggested cut plan
26-march-07
drawn by dld





SD12 SubDuction Bass Reflex
4 cubic feet reference design
with LT550 plate amp
sheet 1
28-march-07 / drawn by dld

3D Visualization goes here

Notes:

0/ drawn with 3/4" (19mm) material. Units to the closest 1/16" or 1 mm

1/ some tolerances (ie magnet brace, port mounting) are quite small, dry fit before assembly.

2/ Ports must be assembled in the box after the front panels & braces are installed and before the last piece (top or bottom)

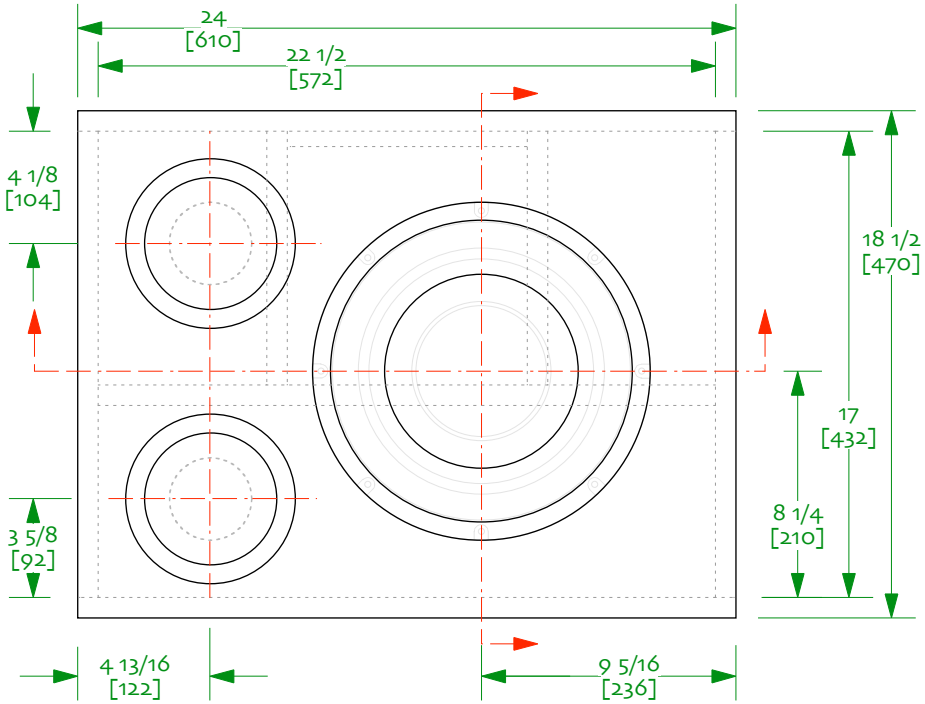
3/ see sheet 2 for brace details

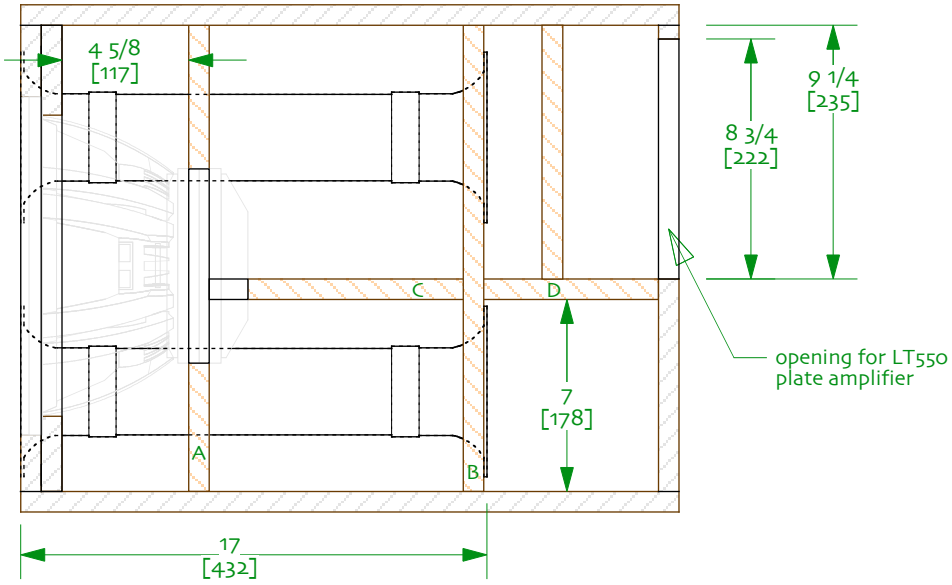
4/ designed for external amplifier. If internal amplifier used increase the volume to accomodate volume of amplifier (see other versions for guidance)

5/ double thickness front baffle flush mounts driver

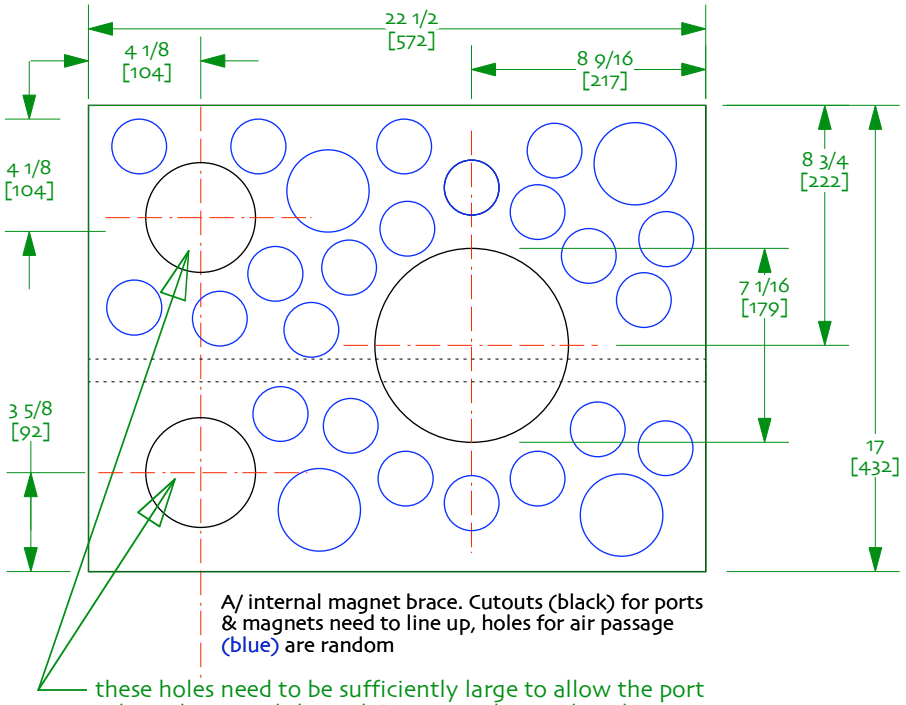
6/ damping material is optional, but recommended. Walls lined with fiberglass, wool felt or poly batting

4/ woofer cabinet can be oriented as shown, or with any side as the bottom



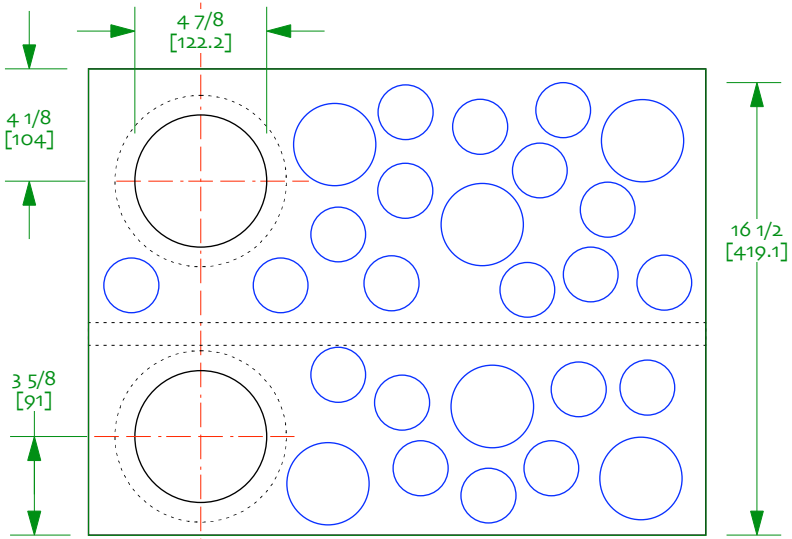


SD12 SubDuction Bass Reflex
4 cubic feet reference design
with LT550 plate amp
sheet 2 – details
28-march-07 / drawn by dld



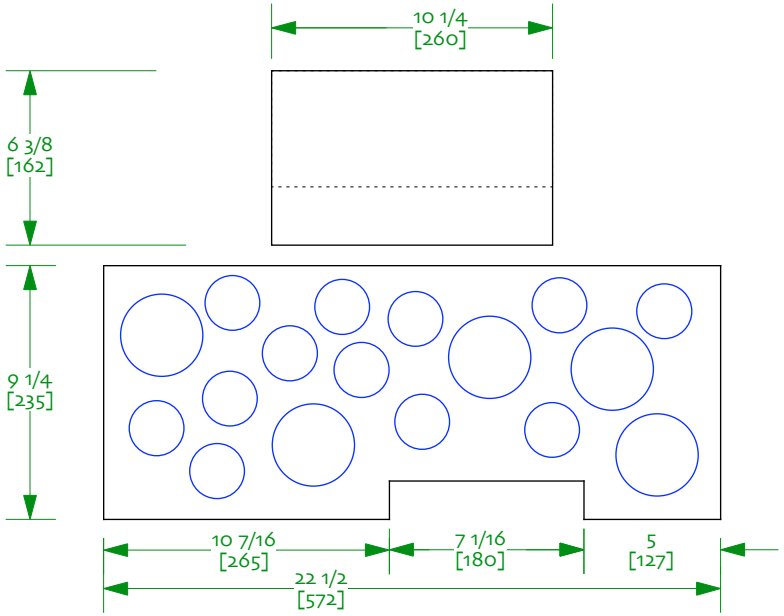
A/ internal magnet brace. Cutouts (black) for ports & magnets need to line up, holes for air passage (blue) are random

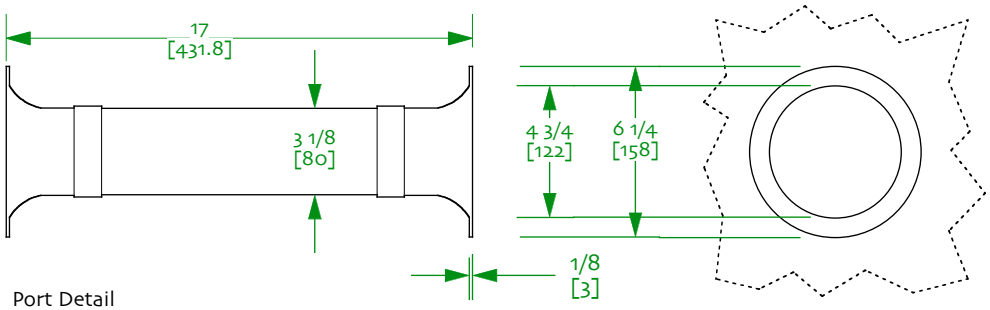
these holes need to be sufficiently large to allow the port tube to be passed through it. (port tube needs to be assembled in the box)



B/ 2nd vertical internal brace. Cutouts (black) need to alighn with the pot cutouts on the front of the box. The inside ends of the port attaches to the rear side of this brace (rebate not required), holes for air passage (blue) are random

C (bottom) & D (top) These brace the magnet to the back of the enclosure, holes for air passage (blue) are random. Speaker magnet needs to fit snuggly into the cut-out





Port Detail

The port should be rebated into the front panel. The rebate should be 1/8" (3mm) plus an allowance for a gasket. The rear flange of the port mounts to the rear-most vertical brace to give symetrical air load to the port.

SD12 SubDuction Bass Reflex
4 cubic feet reference design
sheet 3 – suggested cut plan
with LT550 plate amp
28-march-07 / drawn by dld