



The VX.2 High Resolution Monitor



Design by Al Wooley - Crossover template by Meniscus Audio



Introduction

This speaker kit is the 3rd design using the new CSS Next Generation drivers and it was introduced at the 9th Annual Vancouver Island DiyFEST in late August. They were designed using the Parts Express cabinets and this provides an easier way for many people to do their own speaker builds.

The drivers are two of our VWR126X very wide range mid woofers and our low distortion LD25X tweeter. Both of these use the XBL™ motor topology under license and the VWR also uses the RevSurround™ under the same licence.

The crossovers included in the kits use good entry level components. Al believes in working with simple crossovers not dozens of crossover components plus protection networks to obtain a far superior sound...

The complete construction manual with numerous pictures will be included with the kit. If you would like a copy of the full manual please contact us. Given the relatively small driver opening, the crossover will be split into 2 parts and self adhesive templates for these are also included.

This design was done with the slot port which is preferred by many designers. Sealed the F3 would be 97Hz and using 2 1.5" round port at 2.5" the tuning would be 67Hz. Please contact CSS for further details.

Options

Please contact CSS before ordering if you require any of these. These will be included at a minimal shipping cost increase.

Parts Express Cabinets - 2 styles, 3 finishes - rectangular are \$90 each and curved \$116, including shipping if ordered with the kit

Bi wire binding posts (second set plus links) - \$4

Grill cloth and magnets (if you are building your own cabinets) - several colors

Finished Parts Express Grills and magnets

Extra uncut PE blank baffles in case of serious errors in cutting driver holes

Vibration damping sheets - \$5 and \$31

We believe that most of the typical cabinets benefit from adding a thin layer of self adhesive Sonic Barrier. Two sizes are stocked and we recommend putting this on all inside surfaces including under the crossover boards before mounting.

Acoustic absorption sheets (both 1/2" and 1" available) - \$10 and \$14

The acoustic absorption sheets are also beneficial on top of the Sonic Barrier. This is also self adhesive and should be attached everywhere except where the crossover boards are mounted. Even the brace in the pE cabinets benefits.

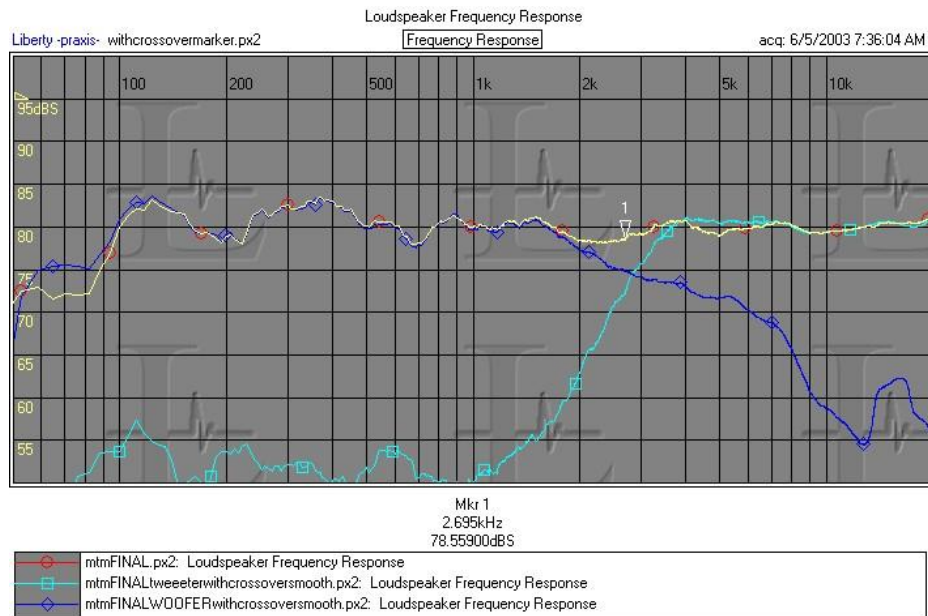
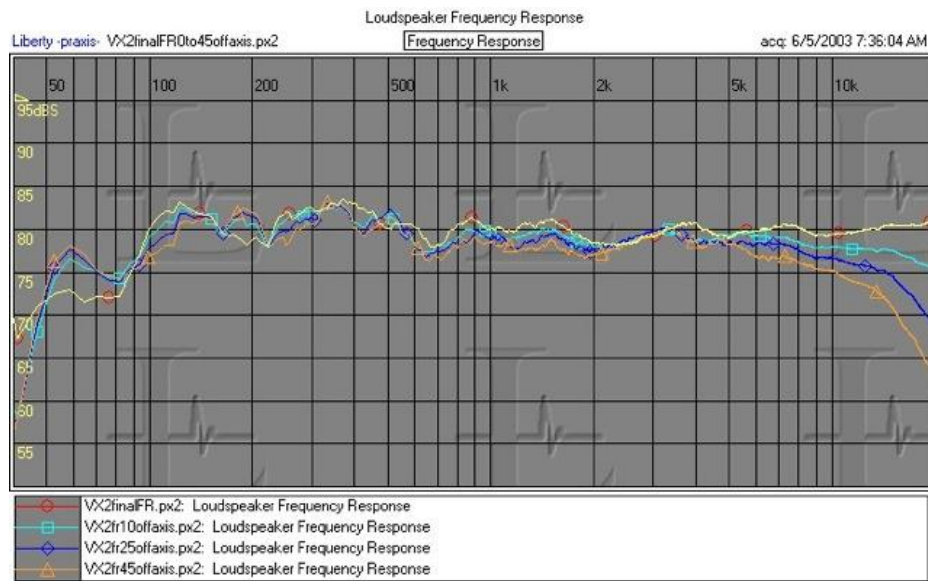


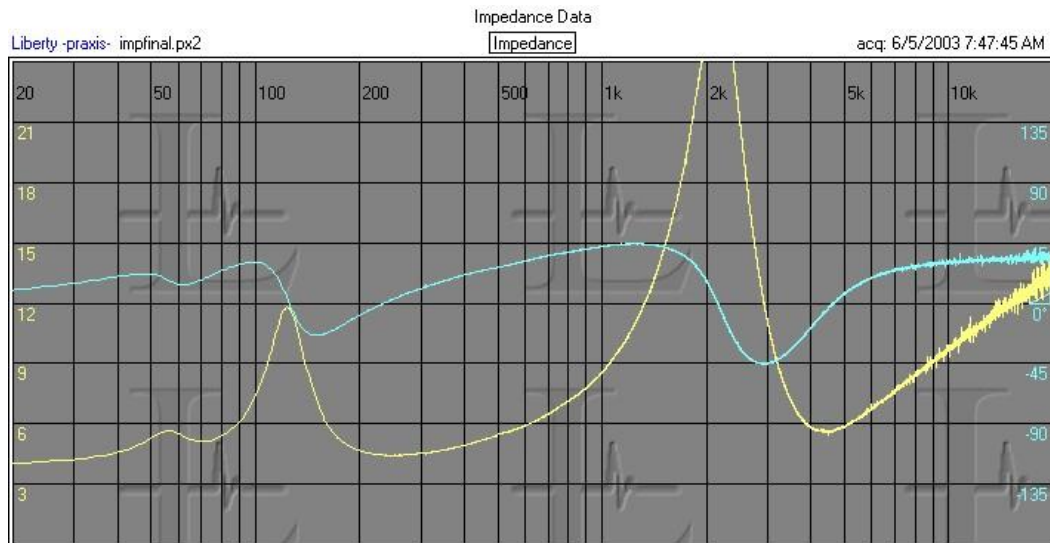
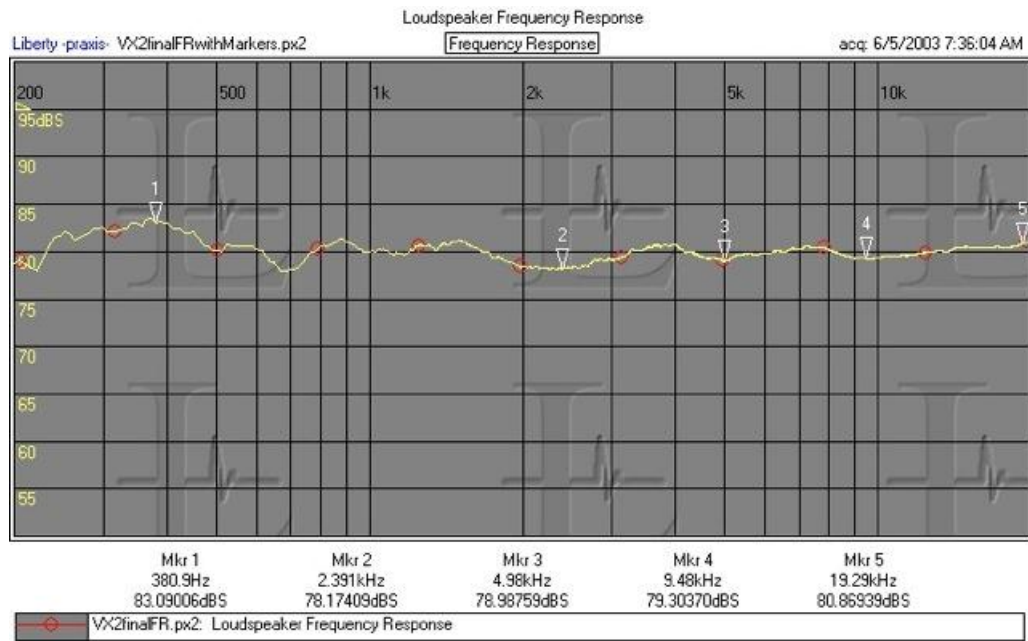
Assembled crossovers

Round ports



Measurements





Cabinets

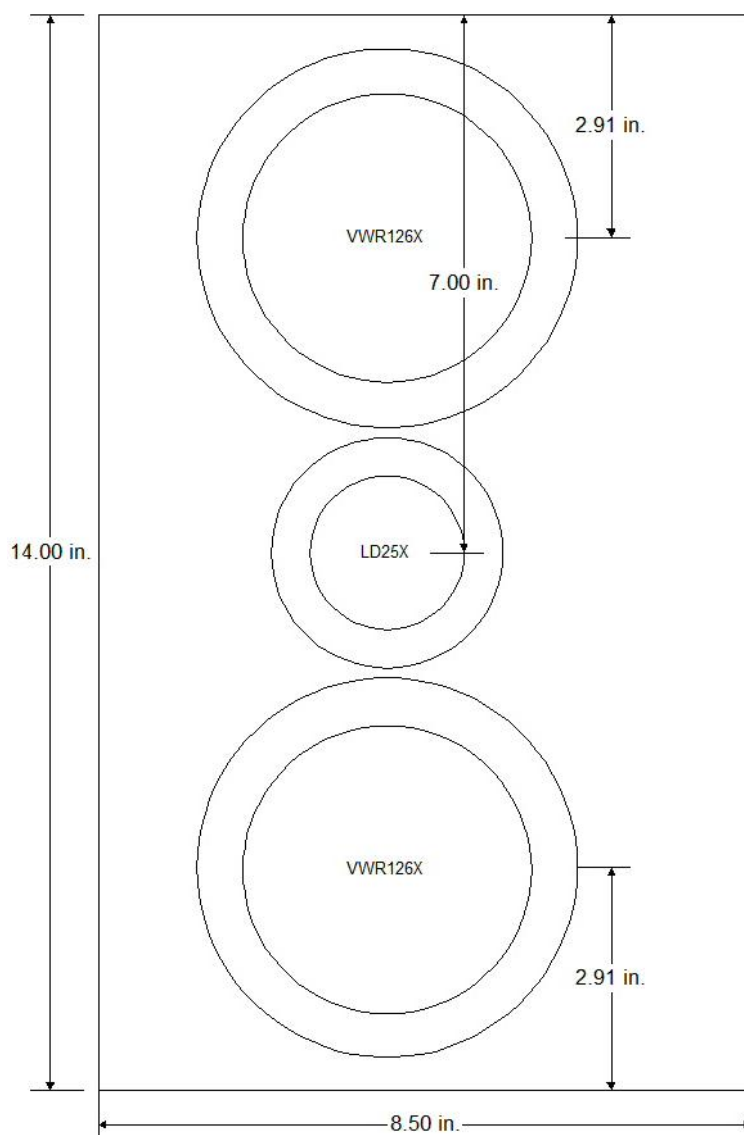
Any of the Parts Express .5 cu ft cabinets will work. The driver spacing shown below also applies to your own cabinet though you could make the cabinet taller. If you do, then you should adjust the depth.

THE WIDTH SHOULD REMAIN THE SAME

Also, if your are building your own then please put the bracing **front to back** rather than the way it is in the PE cabinet. This will allow for easier slot integration and possible lower tuning. It also affects the crossover boards placement.

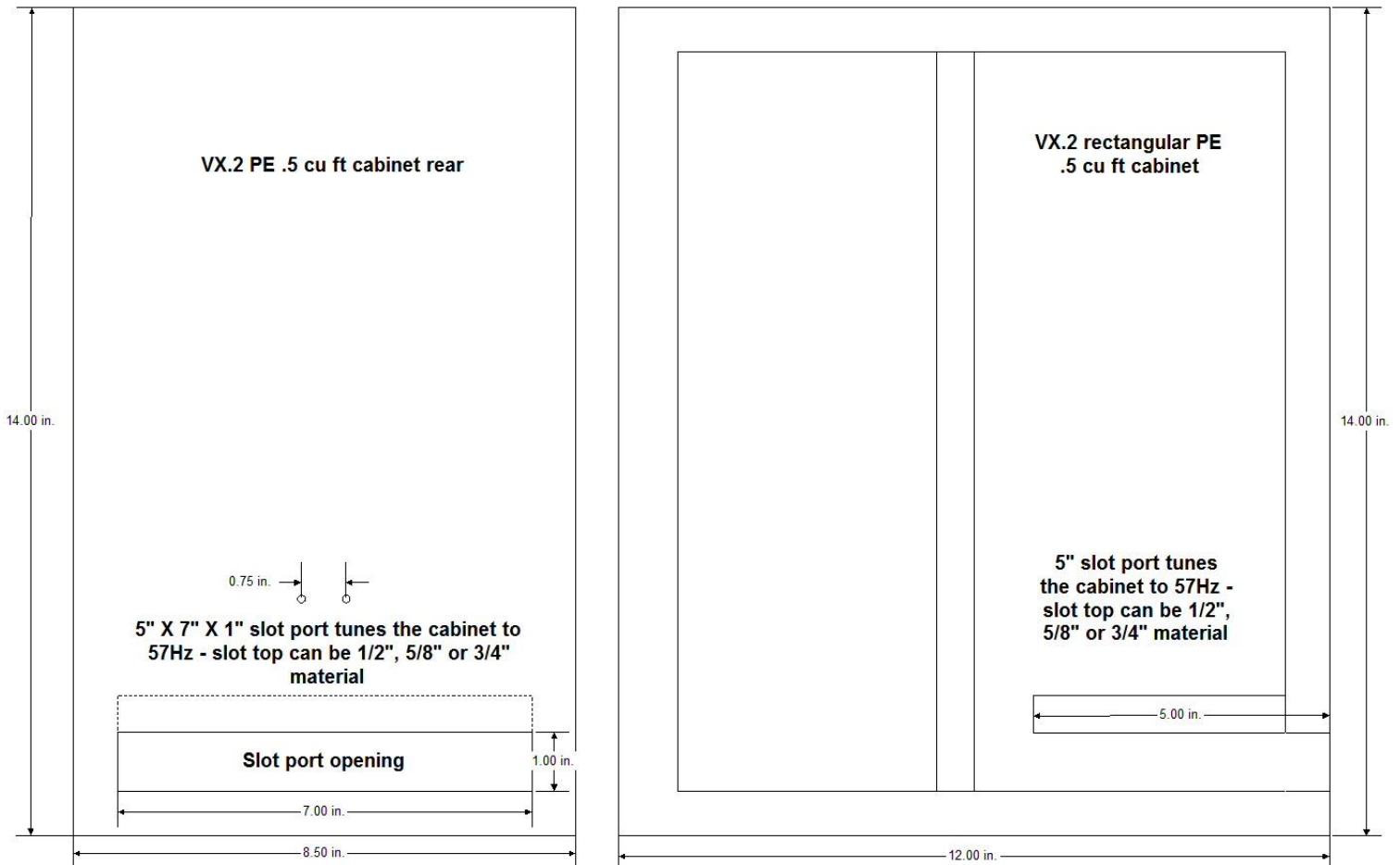
Porting to the front is also possible but the drivers would have to be mounted higher in a custom enclosure.

Driver spacing

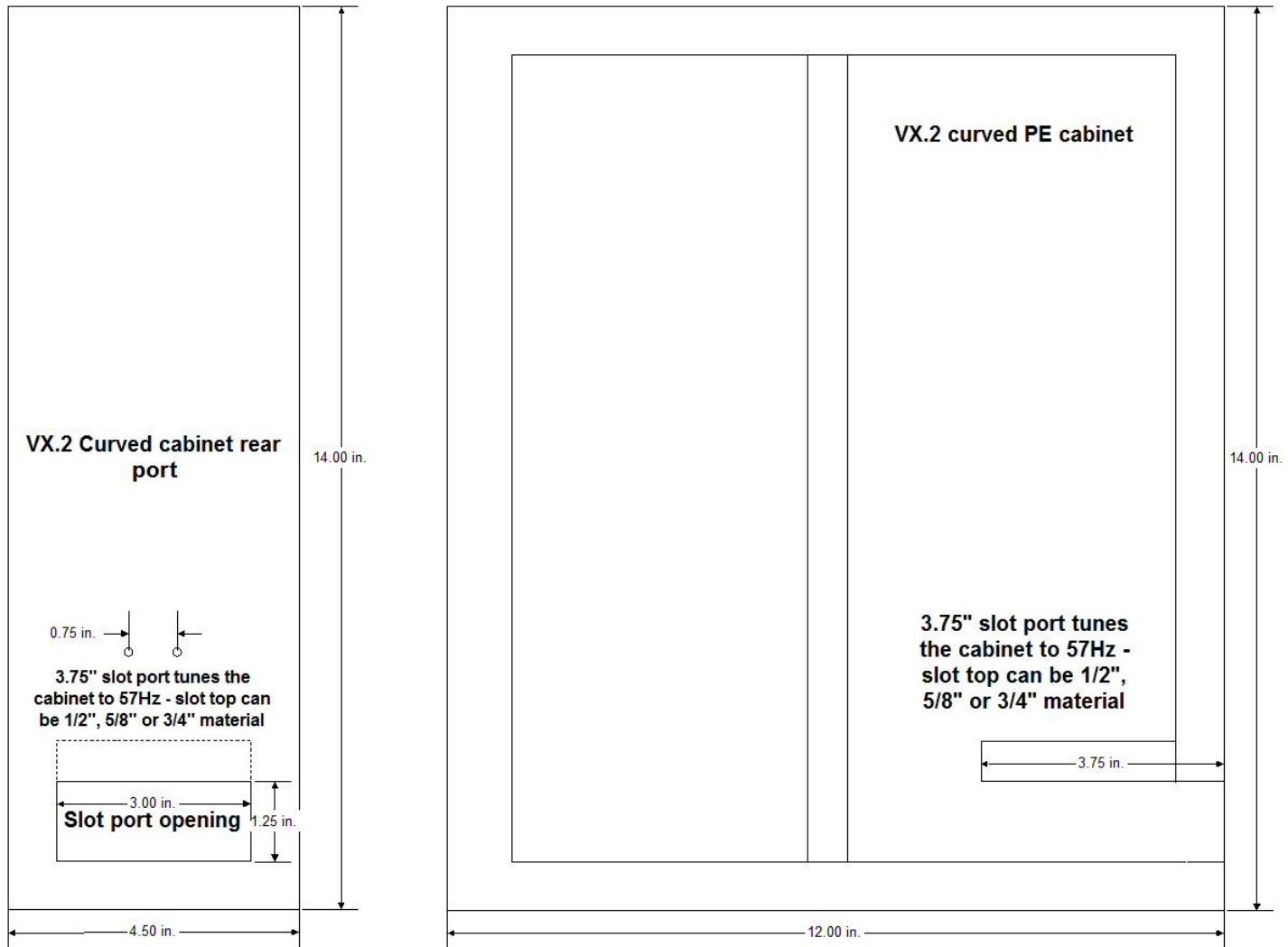


Porting

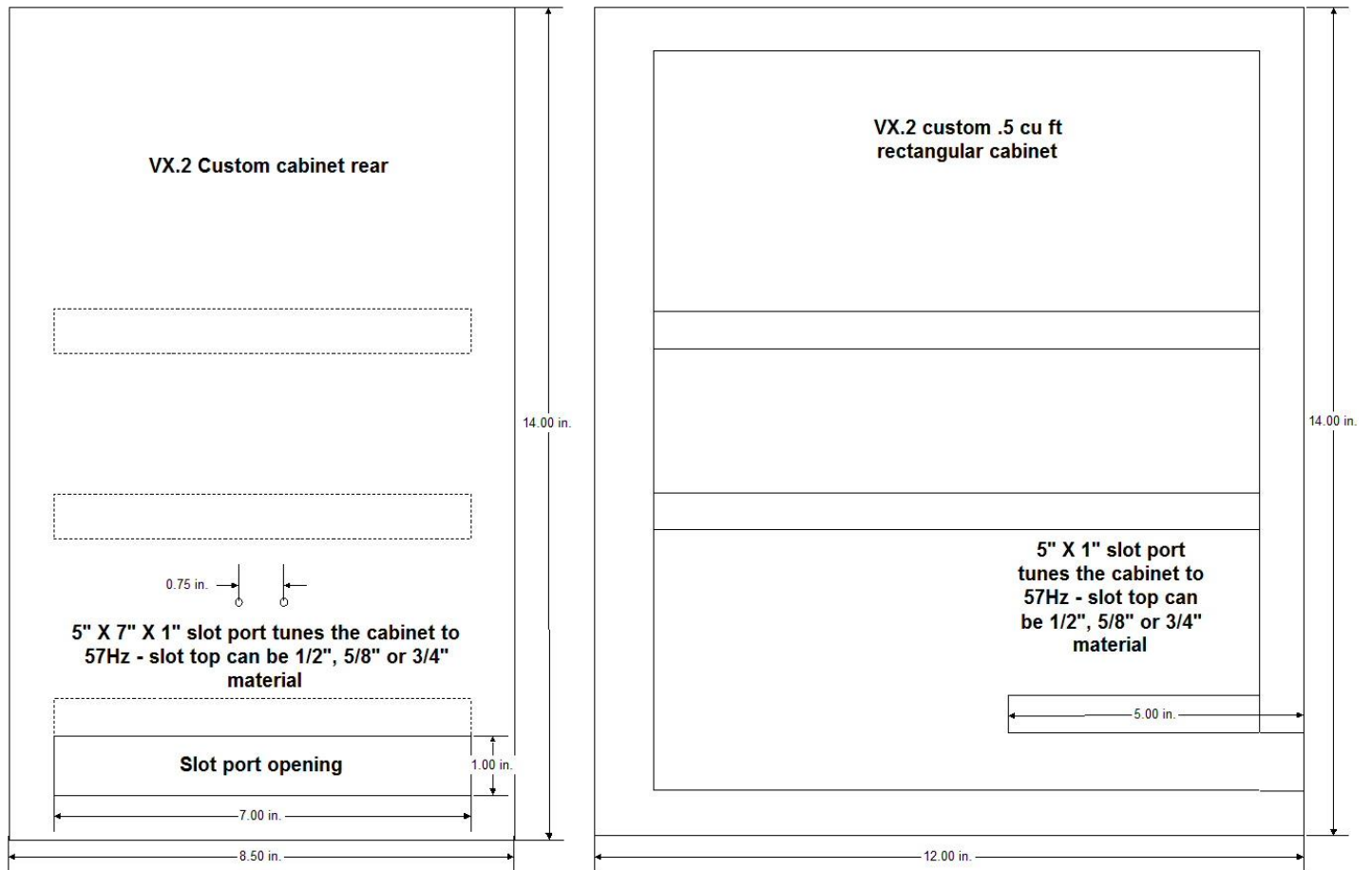
Rectangular PE Cabinet

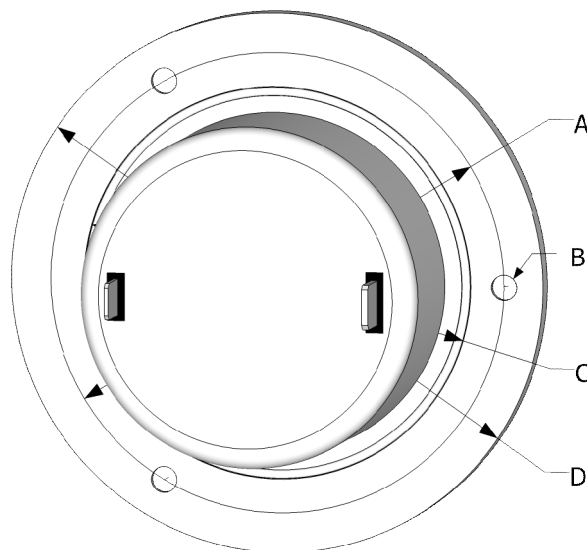
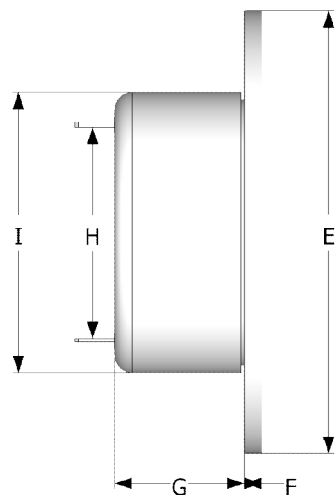


Curved Sided PE Cabinet



Custom Rectangular Cabinet



LD25X Dimensions**A** 64mm - 2.5"**B** 3.6mm - 0.140"**C** 56mm - 2.187"**D** 75mm - 3"**E** 75mm - 3"**F** 3mm - 0.118"**G** 22mm - 0.866"**H** 36.5mm - 1.437"**I** 47.5mm - 1.87"**VWR126X Dimensions**