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Subject: Re: 3 PI build

Posted by [BFP](#) on Sun, 16 Feb 2014 21:03:17 GMT

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Got the grills done and have continued to experiment with placement. The grills are simply a frame of 1/2" MDF 2" wide on the top and sides and 3" wide on the bottom. They are simply butt joint glued together and painted flat black. The fabric and magnets/ friction discs were added and they do the job just fine.

I have abandoned trying to get decent sound on the long wall. Even with the speakers moved in to 11ft. apart I still could not get a decent centre image unless I sat right in the middle. Moving a foot to the side would pull the sound to the speaker. I also had my chair against the wall which never seems to work well IME.

I put them in the corners firing up the long dimension of the room where I could sit further back. This seemed to create the stable image that they are supposed to produce. I placed my subs in the opposite corners behind the listening seat. This provides excellent deep bass and integration with the PI 3.

I got a chance to check the port tuning and it was lower than spec at 26.5 hz. I cut the ports down to just under 2" and got a tuning of 29.8hz which is right where it should be. I do wonder if I have too much insulation in the boxes. I used rock wool batts that are 3" thick and are designed for acoustic duty. At 2.5lb/cu.ft. they are slightly denser than regular fibreglass or rock wool which I believe are around 2lb.

I may have to talk to Wayne about measuring the impedance values to determine if I have too much insulation in the box.

## File Attachments

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- 1) [DSCF9694.jpg](#), downloaded 6020 times
  - 2) [DSCF9700.jpg](#), downloaded 6040 times
  - 3) [DSCF9701.jpg](#), downloaded 6068 times
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