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Subject: Port size for thicker baffles

Posted by [Wayne Parham](#) on Wed, 05 Nov 2003 03:39:00 GMT

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Sounds like those are going to be absolutely great. Just a word about baffle thickness - Since the port length is set by panel thickness, the Helmholtz frequency is a function of the thickness of the wood. I recommend changing the port diameter so that the Helmholtz frequency is maintained if a different baffle thickness is chosen. A 4 3/4" hole cut through a 1" baffle will tune this box to the same frequency as a 4 5/8" hole cut through a 3/4" baffle or a 4 1/2" hole cut through a 5/8" baffle. So if you haven't already cut the port hole, I'd suggest making it 4 3/4" diameter for panel thickness of 1". If you've already cut it, you may be able to enlarge it a little bit. Since the hole for a 1" baffle is slightly larger than for the thinner baffles, it probably shouldn't be too difficult to modify if a smaller hole has already been cut. It's better to have a hole too small than one too big, since enlargements can be done without patching.

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