Subject: 6Pi Build Approaching
Posted by Skip Pack on Thu, 14 Oct 2021 02:04:36 GMT
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I've always wanted to build your corner horns, but, like most, needed a room with available corners. This is about to happen. The room is 15.5' X 23.5' and has a sloping ceiling across the 15.5' dimension. The short side is 9.3' and the tall side is 12.3'. The available corners dictate firing down the long axis. This sounds like it should work, but I do wonder if the assymetric ceiling will cause problems.

The 6Pis appeal to me a bit more than the 7Pis, and I have plans you sent to me perhaps 5-6 years ago. Are these still current? As is often the case, I would probably use 18mm/3/4" baltic birch, where the plans call for 5/8" stock. Should I treat all dimensions as interior dimensions to maintain the correct acoustic behavior, or should I calculate interior dimensions with a 5/8" allowance and add to the ourside dimension?

While I don't think I will build with the lovely joinery that @grimberg achieved, I look forward to the challenge and think I can reach a nice result.

I expect I would start work on them around the end of the year. The house is under heavy renewal, so April-May is likely the soonest they could go in. I hope to use the top-end tweeter and woofer. Are they fairly available?

Hope all's well,

Skip

Subject: Re: 6Pi Build Approaching
Posted by Wayne Parham on Thu, 14 Oct 2021 14:11:37 GMT
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Sounds like a great setup. Constant-directivity cornerhorns always seem to work best when used in a room facing the long dimension. Gives a more natural soundstage, in my opinion.

I'll send plans to make sure you have the most current. There haven't been any updates in a while, but I'll send you the plans anyway, just to be sure you have the latest copy.

On the angled ceiling, stand in the room and clap. Try it in the center of the room and various other places. Listen for flutter echo. You'll know it if you hear it.

I would have expected slanted ceilings to be less prone to anomalies like this than flat ceilings, but I have been in rooms where a slanted ceiling created problems. I might have expected that if the angle of reflection from the speakers was directed upon the listeners. That's kind of easy to see. But I've even encountered the flutter echo problem when that wasn't the case. So try the clap test.

As for component availability, I am seeing slight delay in all components. But for whatever reason, the cast basket drivers tend to come available more quickly than the drivers with stamped steel baskets, at least from Eminence. I haven't had too much delay getting B&C and JBL drivers and only slight delay in Vifa dome tweeters and cast-frame Eminence drivers. But Eminence compression drivers and stamped steel cone drivers are taking forever to get replenished. Circuit components like coils, caps and resistors are hit and miss, but even when out of stock, I usually see them replenished within a month or so.