
Subject: Anyone into guitar, 4X12 cab. plans needed.
Posted by [Erik from Holland](#) on Tue, 02 Nov 2004 08:47:23 GMT
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Hello Everyone, Wayne, I'm currently helping out my neighbour's son with a plan. He wants a bigger guitar-speaker for playing in his metal band. Since I have not much to do and find the idea of building a new project nice, I agreed in helping him out. I also have much left-over parts for the cabinet, so that is not the problem. The problem is that I'm not sure what to build. He likes the idea of a 4 x 12" cabinet with Marshall's Celestion speakers inside. Would such a Marshall-clone be easy to build? I think so, but would anyone have plans for me? Would anyone have better ideas? Would it be a good idea to add a bullet tweeter to the cabinet? Yesterday we hooked up his current amp, a Marshall 2x12 combo, to my stereo on the attic. These are hooked up to 2 small PA speakers with a 10" and a 1" horn, and a stereo sub. I noticed that the PA speakers projected the sound much brighter than the combo, but playing only the combo you noticed less irritation from sounds that accidentally were made by touching the strings while playing. So the sound from the tube-amp combo was cleaner. But the sound from the PA speakers was more live-like. But killing my ears. Greetings, Erik

Subject: Re: Anyone into guitar, 4X12 cab. plans needed.
Posted by [Wayne Parham](#) on Tue, 02 Nov 2004 14:33:22 GMT
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I don't have 4 x 12 plans, but PiAlign will calculate box volume and porting for you. Just enter the driver specs and use a quantity of (4). You might also check at the GuitarAmp or ProSpeakers forums.

Subject: Re: Anyone into guitar, 4X12 cab. plans needed.
Posted by [Matts](#) on Tue, 02 Nov 2004 16:35:49 GMT
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IMHO, it's best to stay away from audio concepts like tweeters, etc. for guitar amps. String noise sucks. Mr. Fender and Mr. Marshall knew what they were doing! Best compromise that many use is their fav amp, close-miked (try Shure 57), and run this through a board and the PA system. This gets you the best of both worlds.

Subject: Re: Anyone into guitar, 4X12 cab. plans needed.
Posted by [Chris R](#) on Wed, 03 Nov 2004 03:45:27 GMT

In my opinion, there's a lot more vanity to guitar speaker design than actual design. If you want to build a 4x12 cabinet, stop by a music store and take the measurements. You do have to be aware of the cabinet impedance and what the amp is set for. If it's a tube amp, you have to match the total load to the output impedance of the amp. SS is OK down to whatever minimum it states. You can get Celestions in 8ohm and 16ohm versions. Figure out what you want the total load to be, before buying any drivers. Explain to the kid how he can or can't connect the two cabinets and how to set amp output impedance if it's settable. Chris
