Subject: when designing horns,remember to..
Posted by toxicport.e on Mon, 10 Nov 2003 08:30:37 GMT
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....make enough space for the woofer to be used ;-Pis 9mm enough clearance from woofer magnet to the horn baffle? hopefully in real life there will be that much,i think il route it otherwise.-or perhaps i should optimise it further to use up that last few mm :-)i think il have to redo this one with 25mm MDF where possiblenot long now left with CAD work for this 40hz beastie!!

Subject: Re: when designing horns,remember to..
Posted by Adrian Mack on Mon, 10 Nov 2003 08:51:28 GMT
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Hey Mike,I've seen stuff done before where there is little clearance between the magnet and the wall behind it. If the driver does not have a vented magnet, then it could probably be used OK. But if it has got a vented magnet then I'd suggest keeping more room because that air really can come out pretty quick from that hole, and if its restricted then it could cause the motor to heat more quickly. Also the air can 'bounce' off the wall behind it and back through the air vent and cause interferance with its operation if the clearance is very little and if the driver is used at high diaphram travel. Try putting your hand over the vent on your 2226's magnet, then turn it up high and you will see what I mean, you'll hear it actually. Adrian

Subject: ...reinforce your foundation!
Posted by Wayne Parham on Mon, 10 Nov 2003 13:11:34 GMT
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After you build these, you'll have more trouble than woofer clearance or magnet venting. You'll have trouble with the structural integrity of your home!!!

Seriously.

space) in Hornresp, yes?

Adrian makes a great point, similar to the cooling vent comments from Adam last week. My gut feeling is that the distance combined with the deflection angle of the boundary will probably encourage venting. One thing is for sure - Your response curve looks great and I expect these to sound great too.

Subject: Re: ...reinforce your foundation!
Posted by Mike.e on Mon, 10 Nov 2003 19:46:40 GMT
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yeah the 2226 is supposed to have 3inches radius airspace around it..i can optimise it further im sure!40hz response attached.(my corner horn)the 25hz one will be impressive but i dont want any part in construction!hahai can optimise my one further,using 4 conicals to flatten response,but i may not bother.its already more flatter than my main speakers ...only 34cm depth internal!i think i maybe in heaven when its finally built :-)Cheers!