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Subject: braces for enclosures?

Posted by [jazzbo](#) on Thu, 19 Apr 2001 17:03:00 GMT

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Hi Wayne-Thank you for the answers to my many questions via email. I thought I would switch venues so perhaps others could also benefit. I have been surfing many websites relating to building speaker cabinets. A common feature of cabinets the size that i am proposing to build (pro four pi) have substantial bracing, and in some cases 1" mdf of two layers of 3/4" mdf are employed. Are such measures necessary for the cabinets that you have designed? Thanks again for all of your help. Tom

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Subject: Re: braces for enclosures?

Posted by [Wayne Parham](#) on Thu, 19 Apr 2001 20:49:28 GMT

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You certainly can't overbrace. I install bracing at least every 18" on large panels, and that's what I recommend to others too.

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Subject: Speaking of bracing

Posted by [Randy Bey](#) on Fri, 20 Apr 2001 12:12:54 GMT

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on mikelkelly's 10 Pis he wanted to know how to brace the large, diagonal flare of the bass horn. I said either a 2x4 along it's middle in the back or even a 4x4. Is this sound thinking? In other words, less and larger v. more and smaller?

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Subject: ten Pi injection foam - VERY IMPORTANT

Posted by [Wayne Parham](#) on Fri, 20 Apr 2001 12:40:43 GMT

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Cross-braces are very good in cabinets that need the airspace as part of a back chamber or something. But where chambers are formed that are just dead space, I suggest using injection foam instead. This does two things - It braces the panels AND it fills the dead air space. The trick is to drill holes to use for filling. Be very careful with this - overfilling will split the panels with ease. I have found that the "quick curing" foam available at local hardware stores does not cure in a

homogenous mass, so it will grow in "stalagmites" within the cabinet and can split the cabinet long before it is full. So be careful with this stuff.

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Subject: ...and fill holes with hardwood plugs.

Posted by [Wayne\\_Parham](#) on Fri, 20 Apr 2001 23:24:36 GMT

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I forgot to add that we drill the holes in the back and bottom of the cabinet. After filling the "dead chambers" with expansion foam, we install hardwood plugs in the holes. This makes an attractive solution. Hardwood plugs are available at most hardware stores. They're usually available in many sizes, and I prefer to use the 1/2" diameter plugs. They're essentially 1/2" dowel rods that have been cut into 3/8" length sections. That's another way to create plugs for exotic woods - if premade plugs can't be found.

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Subject: Window foam..

Posted by [Jack Gilvey](#) on Sat, 21 Apr 2001 15:03:07 GMT

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I saw a new (?) type of injectable foam at Home Depot yesterday, made for sealing gaps around windows, from the same company that puts out the other ones. It claimed that it wouldn't bow them, so it seems to expand with less pressure. Might be less risky/easier to use, but I don't know how its affectiveness is, well, affected.

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