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Subject: Horn Design

Posted by [Mike.e](#) on Sat, 21 Aug 2004 06:09:55 GMT

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Hi Adam To design a horn background info is needed. Issues 1. You don't require stereo horns unless you enjoy 2 monsters instead of one. 2. <http://www.melhuish.org/audio/horn.html> horn general info 3. <http://www.geocities.com/sc00byd0159/TD.rtf> Tom on the labhorn (lab12 basshorn) to get a few ideas. 4. <http://homepages.paradise.net.nz/quadroph/30hzexpo.htm> my original plans (note that this is old, and the woofer dimensions are actually much more deeper and wider - i need to remove this site) 5. One needs to get intimate with HORNRESP6. Large horn means bracing, and HDF/25mm MDF. 7. [http://vincent.brient.free.fr/bass\\_horn.htm](http://vincent.brient.free.fr/bass_horn.htm) Read the wiki links Note that the excursion minimum, is not located at the F3 point like on a max flat ported box alignment! - because my horn design was extremely small mouthed. In the 30hz expo case, the low excursion point was ~38hz. With a long excursion driver like the B12/lab12 it's less of a problem at sane SPL levels We are talking 500 litres for corner horn of 30hz F3. You could easily make it extend lower and trade a few db in efficiency, say 101db/1watt at 24hz. Note that a large mouth is more technically pleasing even if i don't think it sounds 'better' Cheers! Mike.e  
Basshorn wiki