
Subject: wayne, adam, sam or anyone else who can run pialign

Posted by [replay](#) on Wed, 19 Jun 2002 14:59:24 GMT

[View Forum Message](#) <> [Reply to Message](#)

i want to put my pair of jbl 4655's to good use. as we all know these lack response below 80hz. i have a pair of omega pro-18 which i'd like to build cabinets for. i would place each jbl on top of each omega box. what is the smallest volume box i can build and still maintain good deep bass response. the speakers will be x-overed actively so i can play around a bit. also what is the recommended x-over point between the omega and the jbl woofer in the 4655? thanks in advance!cheers,george

Subject: PiAlign says...

Posted by [Wayne Parham](#) on Wed, 19 Jun 2002 20:54:40 GMT

[View Forum Message](#) <> [Reply to Message](#)

Using your numbers, Fts=28, Vas=12.49 and Qts=0.24, PiAlign values are Frd=28, Vad=12.49 and Qd=4.17. PiAlign suggests making a 3 cubic foot box tuned to 44Hz. For a bass-reflex cabinet, actual dimensions are 26" x 18" x 12" and with a rectangular port having inside dimensions of 3 1/2" x 6 3/8" x 5 5/8" long.

Subject: Re: PiAlign says...

Posted by [replay](#) on Wed, 19 Jun 2002 23:24:55 GMT

[View Forum Message](#) <> [Reply to Message](#)

thanks wayne! a couple more questions. can i shape the box to resemble a cube as long as i stay close to 3 cu ft? also what is the -3db point for that box and at what frequency should i x-over to the jbl 4655's for best performance?cheers,george

Subject: Re: PiAlign says...

Posted by [Wayne Parham](#) on Thu, 20 Jun 2002 02:00:32 GMT

[View Forum Message](#) <> [Reply to Message](#)

You can build the box cube shaped as long as you crossover low. Above 300Hz, a box this size made as a cube will have standing wave resonance problems. But if you crossover a couple octaves below that with a steep slope, it won't be a problem. I'd also suggest you crossover at or

below the frequency where the distance between your sub and main speakers equalled 1/4 wavelength. So, for example, if you plan to crossover at 100Hz, be sure the sub and the mains are within 3 feet of each other.

Posted by [Wayne Parham](#) on Thu, 20 Jun 2002 02:17:37 GMT
[View Forum Message](#) <> [Reply to Message](#)

Subject: You have mail!
Posted by [Wayne Parham](#) on Thu, 20 Jun 2002 02:22:16 GMT
[View Forum Message](#) <> [Reply to Message](#)

talking about.

Subject: Re: You have mail!
Posted by [demanddeepbass](#) on Thu, 20 Jun 2002 04:51:41 GMT
[View Forum Message](#) <> [Reply to Message](#)

Hi Wayne, could you copy a set of those plans to me as well? Thanks.Olly

Subject: Re: You have mail!
Posted by [demanddeepbass](#) on Thu, 20 Jun 2002 04:54:24 GMT
[View Forum Message](#) <> [Reply to Message](#)

Oh yeah, my adress is: spurlash@rya-online.netcheersOlly

Subject: You've got mail too!

Posted by [Wayne Parham](#) on Thu, 20 Jun 2002 06:16:21 GMT

[View Forum Message](#) <> [Reply to Message](#)
