
Subject: Re: Pi Fours- Low Frequencies

Posted by [Wayne Parham](#) on Wed, 29 Jun 2005 17:24:22 GMT

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The Omega 15 is like so many other high-output 15" speakers, in that it has been designed with electro-mechanical specs that make it work very well in cabinets from 2.0ft³ to 6.0ft³, tuned to 40Hz. The Omega 15 will actually work well in cabinets up to 8.0ft³. Larger than that and the cabinet is best tuned to an EBS alignment. It makes a good subwoofer in a 10.0ft³ cabinet tuned to 30Hz, a la JBL 2235 or 2245. So this speaker is very versatile. This is what you can expect from various alignments of the Omega 15:

Cabinet size	Box tuning	-3dB
2.0ft ³		
3.0ft ³	40Hz	43Hz
4.0ft ³	40Hz	45Hz
5.0ft ³	40Hz	40Hz
6.0ft ³	40Hz	40Hz
7.0ft ³	38Hz	38Hz
8.0ft ³	38Hz	30Hz
9.0ft ³	35Hz	35Hz
10.0ft ³	32Hz	28Hz

As bandwidth goes up, intermodulation does too, so the lower you push the midwoofer in a two-way

and is a good compromise between bass extension and midrange clarity. It is a good all-around speaker that sounds good in large areas with limited boundary reinforcement. It sounds balanced in half-space and quarter-space is good but eighth-space is usually a bit too much. The Stage

from boundary reinforcement. It is also good for use in situations where extra midrange presence is required. Having a larger box provides deeper useable response, but at a reduced level. So the Stage four actually sounds like it has more bass, if both are compared in a large room. If placed in corners or floorstanding against the wall in a small or medium sized room, the Stage four may even sound bass-heavy where the Theater four sounds just right.