Subject: Open baffle array wings
Posted by G.L. Tirebiter on Fri, 18 Mar 2005 16:53:55 GMT
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I've finished cutting the holes at long last for my OB array -- each side will have 32 Dayton 3/4 inch tweets and 12 NSBs open baffle above a sealed 10" Peerless woofer. Everything will be actively equalized. My question is about wings: exactly what are they and why do I need them?

Subject: Active equalization = no wings needed?
Posted by G.L. Tirebiter on Fri, 18 Mar 2005 17:42:31 GMT
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Okay, I've done a little more research and think I may have a slight grasp on wing theory. It seems that if I actively equalize the array, I don't really need the wings. Is that correct? I really like the idea of the thin-as-possible-baffle for WAF, so if I don't need the wings I'd be a happier camper.The array is tri-amped using gainclone amps I built fed by Behringer 3-way x-over and 31-channel/side equalizer.

Subject: Re: Open baffle array wings
Posted by Zene Gillette on Wed, 23 Mar 2005 06:57:09 GMT
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Spend a little time with the Edge program. http://www.tolvan.com/edge/ Look at the response curve of your design and see how much eq (that is BOOST ... read, phase shifting, distortion) you need to get the lower cutoff frequency you want. Hint: Try a tapered design, wide at bottom and very narrow at top. Still has "small" look. BTW, eq is not the answer to audio reproduction. Some cut and damn little boost should be the limit. Zene