Subject: Re: Eminence Beta12LTa -- best cabinet?
Posted by Wayne Parham on Fri, 09 Sep 2005 07:20:24 GMT
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You could do sealed, sure. The Beta 12LT works very well in a sealed box. But it provides deeper bass extension in a vented box of the same size. Compared with sealed cabinets, vented boxes reduce excursion between fb and fh, which is a large portion of the bass range. Excursion only increases below fl. See the posts called "Port vs Sealed" and "Resonance".Sealed alignmentsCabinet size f3 f10 peaking (100Hz - 200Hz)==========1.5ft3 70Hz 50Hz +2dB2.0ft3 70Hz 45Hz +1dB3.0ft3 65Hz 40Hz4.5ft3 65Hz 37Hz6.5ft3 65Hz 35Hz9.5ft3 65Hz 33HzVented alignments (Helmholtz frequency = 35Hz)Cabinet size f3 f10 peaking (100Hz - 200Hz)==========1.5ft3 70Hz 47Hz +2dB2.0ft3 63Hz 40Hz +2dB3.0ft3 55Hz 35Hz +1.5dB4.5ft3 45Hz 28Hz +1dB6.5ft3 38Hz 27Hz9.5ft3 33Hz 27Hz