Subject: Folded horns with curves, about 60 – 500 Hz
Posted by Richard on Sun, 20 Nov 2005 09:23:18 GMT
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Hil'm going to build my first horn system, about 60 – at least 6000 Hz. (Under that sealed active subs, above that maybe Aurum Cantus ribbons).Most desired qualities: transient response, dynamics & detail. Budget: lowish with good quality. Plan A is look for a horn to put my 12" JBL 2202H's in, covering 60 - 400 Hz. A bit more would be better, as my mids would be happier from 500 Hz up. A straight hypex 68" (172 cm) should give close to 60 Hz, but is a tad long. When I saw 15" JBLs in a U horn the other day http://hem.passagen.se/sajberrapid/50hz.html, I thought the smaller size and ability to stick them where the back wall meets the side-walls should make integration easier. I tried to contact Mattias for design info, without success so far. Option B is just run the JBLs up to about 150-250 Hz, then use some 10" PHL 3451s that I have, up to about 800 Hz, then a 1.5-2" driver in a horn all the way to 20 kHz. If I go Plan A, it'd be more flexible with either a U horn (how to design it?) or a folded horn. To get extension to 500 Hz, I'd need one with either very well deigned reflectors, or curves. Bill Fitzmaurice's DR horns have curved bends, eg www.billfitzmaurice.com/plans/product_info.php/products_id/3 but are a double curve, and intended to hold arrays as well, so degree of difficulty to build is more than I need. Is there a single curve folded design around? Any comments are welcome. Thanks!