Subject: effect of 'glass on box volume
Posted by Sam P. on Thu, 04 Apr 2002 11:49:14 GMT
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is very hard, maybe not even possible to predict. I do know that my 4 Pi Pro's are very close to a net internal Vb of 2.5cu.ft., and when verifying Fb with specific port tube configurations...the only answer explaining the resultant Fb's is that THE BOX THINKS IT'S ABOUT 3.3cu.ft.. At 40 and the final 48Hz. Fb, boxplot agrees with my Fb/port tube measurement results only when the box is specified to be around 3.3cu.ft. So in this ONE SPECIFIC case, a 2.5cu.ft. volume, PLUS 1.2cu.ft. of R13, resulted in an effective Vb of around 3.3cu.ft. Verified twice by careful zplots at 40 and 48Hz. (using 3in. and 1.5in. port tube lengths). A conservative estimate is the "apparent" volume WAS INCREASED by at least half the amount of 'glass added. The major implication of the added volume is that if not accounted for, your Vb will be too large, causing system tuning to be lower than desired...maybe causing low end extension of the bass to suffer. 5 or 10Hz. of box tuning can be significant...if you can trust the sim data. JBL2035 was used in the situation above.
Sam