

---

Subject: Re: Beta 12LT in PiAlign'ed cabinet  
Posted by [Observator](#) on Wed, 26 Sep 2001 14:10:37 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Hi Wayne,> PiAlign recommends a bass reflex cabinet of 2.4 cubic feet tuned to > 33.75Hz and having Q of 1.5. It recommends doing this using a 2.5" > diameter port that's 2.75" long, which is very close to a perfect > match - corresponding to Frd of 34.0Hz and Q of 1.56. I just verified this calculs and unfortunately this doesn't workfor me. In your whitepaper for the port calculation I read:
$$F_{re} = 1/(2*\pi)*(A_p/(V_e*L_c))^{1/2}$$
If  $D_p=2.5$  and  $L_p=2.75$ , then  $L_c= 4.87$ , if  $D_p=2.5$  then  $A_p=\pi*(D_p/2)^2 = 4.91$ ,and then for  $V_e=2.4$  i have  $F_{re} = 0.10312$ and not 33.75 Hz as you said.( $Q_e = 1.54$  with no problem)What's wrong ?Thanks in advance,O'Tor

---