Subject: Re: pi4 / pi12
Posted by Wayne Parham on Wed, 06 Nov 2013 20:59:26 GMT
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If you're going to use subs (as recommended) then there is no point in increasing the volume of the mains.

The problem with changing the dimensions is you have to check internal standing wave nodes, to make sure you don't introduce an anomaly in the lower midrange. Large cabinets have standing waves in the lower midrange, and those frequencies are not adequately attenuated by lining the walls with absorbent material. Large subwoofers don't have this problem because no midrange frequencies are presented to them. But full-range speakers with large cabinets take special care.

You can model the cabinet mathematically to find where the pressure nodes fall, and take care to ensure the midwoofer and port are not placed on one. And acoustic measurements should always be taken of the finished product to ensure the response is ripple-free. But if you are not prepared to do these things, I would suggest sticking with the plans, because they are already

twenty years.