Subject: Re: 3 Pi build Posted by Wayne Parham on Mon, 06 Jan 2025 15:07:58 GMT View Forum Message <> Reply to Message

The Helmholtz frequency is 30Hz. What is also important is the positions of the woofer and the port in the cabinet, as they determine how the standing waves line up inside the cabinet. It's not a transmission line - so it not tuned by quarter-wave resonance - but in a cabinet this size, they do exist in the upper midbass and lower midrange. That's why driver and port location are important - we don't want an antinode in either position. It's also why the damping material inside is important, especially the sheet that spans the cross-section.

The brace can be made using panel scrap. Just fit it snug so that the panels are slightly preloaded. And like I said, make sure a sheet of insulation lays on the brace. It should span the cross-section of the interior from side to side and front to back.