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Subject: Re: Surround voicing and matching the mains  
Posted by [Wayne Parham](#) on Sun, 03 Feb 2013 00:10:38 GMT  
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I agree with Steve on all points. The Delta 10 is a great midrange but doesn't dig deep enough for use as a midwoofer. Even when running subs, you still want mains that will at least provide some bass, and the Delta's just can't do it. They're midrange speakers, not midwoofers.

Beyond that, I personally prefer speakers with wide dispersion for surrounds, so 90° waveguides are out. Love 'em for mains, obviously, but for surrounds, I want a much wider pattern.

match with our larger waveguide speakers. Each of our loudspeakers provides basically flat power response, which means the sound radiated in all directions is flat, not just the sound radiated straight ahead, on-axis. The difference is our waveguide speakers radiate a 90° pattern

surrounds.

1pi or 2pi for surroundsIn fact, I point my surrounds at the wall and them diffuse energy all over the place. It's exactly the opposite approach I use for the mains, but it makes just the right ambience for surrounds, in my opinion. Make the sidewall angle of reflection direct the sound towards the listening area, and it makes very natural sounding surround ambience.