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Subject: Re: Folded horns - W verses equiangular spiral  
Posted by [Bill Wassilak](#) on Tue, 11 Jan 2005 15:38:15 GMT  
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>>I've noticed on several forums lately that a new popular opinion is forming. The "W" fold was probably the most popular basshorn shape since the early days of the Klipschorn in the 1940's. But lately, I see more and more references to them being worse than direct radiators. That's bull, a folded horn will always out perform a direct radiator as far as lower distortion and more SPL's go. They just won't go as low in freq as a direct radiator can with out becoming massive. And there's tests out there that will prove it.>>can you see any reason why a spiral fold basshorn would outperform a "W" fold?Possibly depends on what the x-over freq is. A "W" fold it seems to me can throw out more mb gack if you want to call it that, than what a spiral horn would because of the harmonics and the way the horn path is laid out. A spiral horn has more turns to go through so some of that gack gets attenuated going around more corners.>>If the path length is the same and the area expansion is the same, it seems to me that performance would be the same at low frequencies.It should be.>>I would think the main deal is packaging and layout if all other things are equal.That's true.>>Could the preference be a new misconception? Sounds like somebody's trying to yank-yer-chain.Just my thoughts on the subject.Bill W.

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