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Subject: Re: The Movement of Waves and Particles  
Posted by [Wayne Parham](#) on Mon, 05 Mar 2007 21:29:02 GMT  
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Good catch. Thanks for the link to [volvotreter.de](http://volvotreter.de)! That's a very useful collection of articles. I've listed direct links to the Edgar article below, for easy access.

Seems to me, if a folded horn is expected to pass frequencies higher than one wavelength across its cross-section, then diagonal reflectors should be used. Rounded ducts can be used too, but then the wavefront will bounce from side to side. Rounded ducts work better if the cross-section is less than one wavelength. Far below one wavelength, the radius doesn't matter as much, and the curvature of the flare can be approximated with straight sections. Illustrations of reflections in ducts Edgar's article tends to agree with this, as shown in his Monolith horn article: Monolith horn article, page 1

Monolith horn article, page 2

Monolith horn article, page 3

Monolith horn article, page 4

Monolith horn article, page 5

Monolith horn article, page 6

Monolith horn article, page 7

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