



Megalith Horn Family

Rear Firing Olson-style Double Path Manifold Horn for Mark Audio

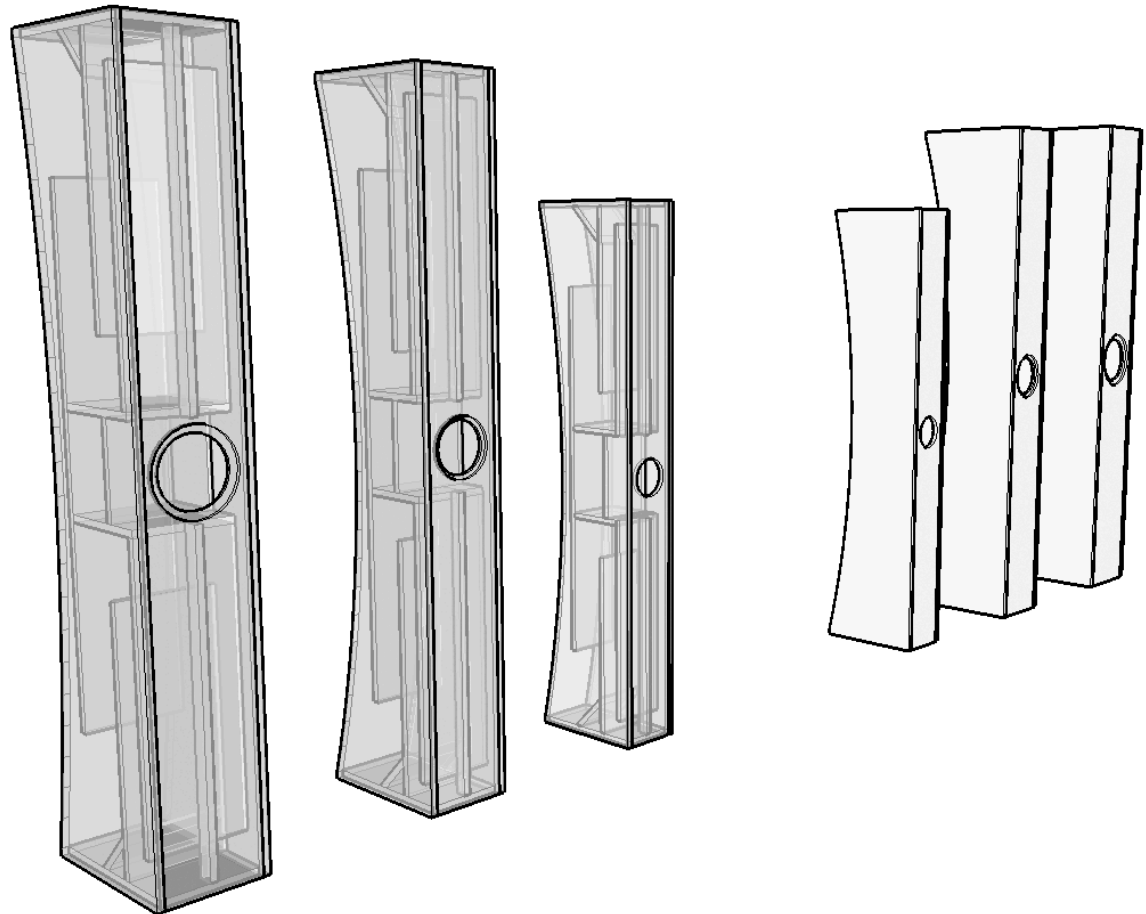
A series of quasi-hyperbolic rear-mouth Olson style manifold horns named after neolithic British megaliths.

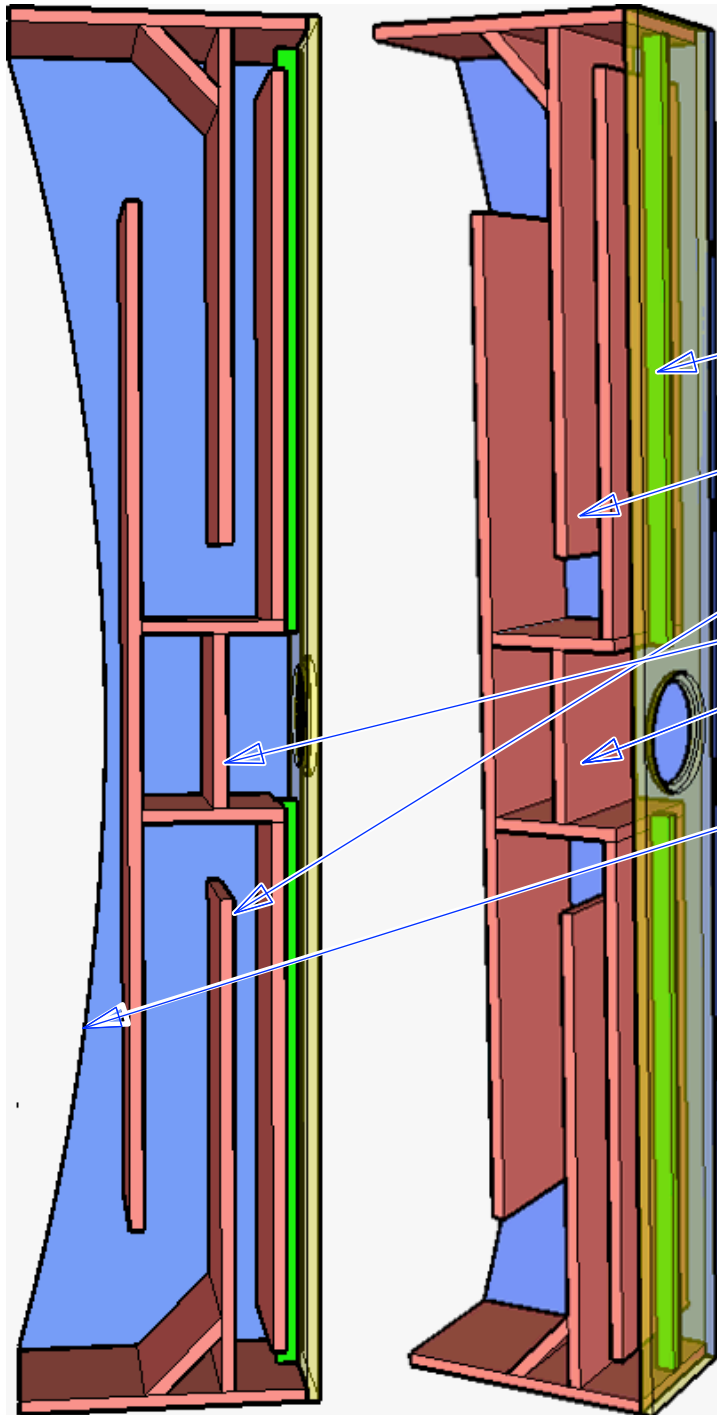
They are tall and elegant with a small footprint. For use near a rear-boundary wall or corner.

Engineered for the Mark Audio drivers. Massive scale for modest drivers, with a neutral tonal balance.

Avebury (Alpair 12/12p), Silbury (Alpair 10/10.2/10.3/10p), and Maeshow (Alpair 7/7.3 and the CHx-70/EL70)

Each planset comes with plans in various material thicknesses – and we will happily add more if your build material thickness is not yet covered – suggested cut plans, and more.





Braces (green) brace baffle to closest manifold partition to stabilize baffle in high pressure zone

Series of increasing manifolds formed by partitions (red) along with baffle form a dual stepped (Olson-style) quasi-hyperbolic expansion horn. Folds at the transition of each step in the expansion act as low-pass filters helping to remove high frequencies from exiting the mouth

The simple rear panel of the air cavity can be shifted backward and the excess volume filled with a much more complex rear surface to diffuse reflections

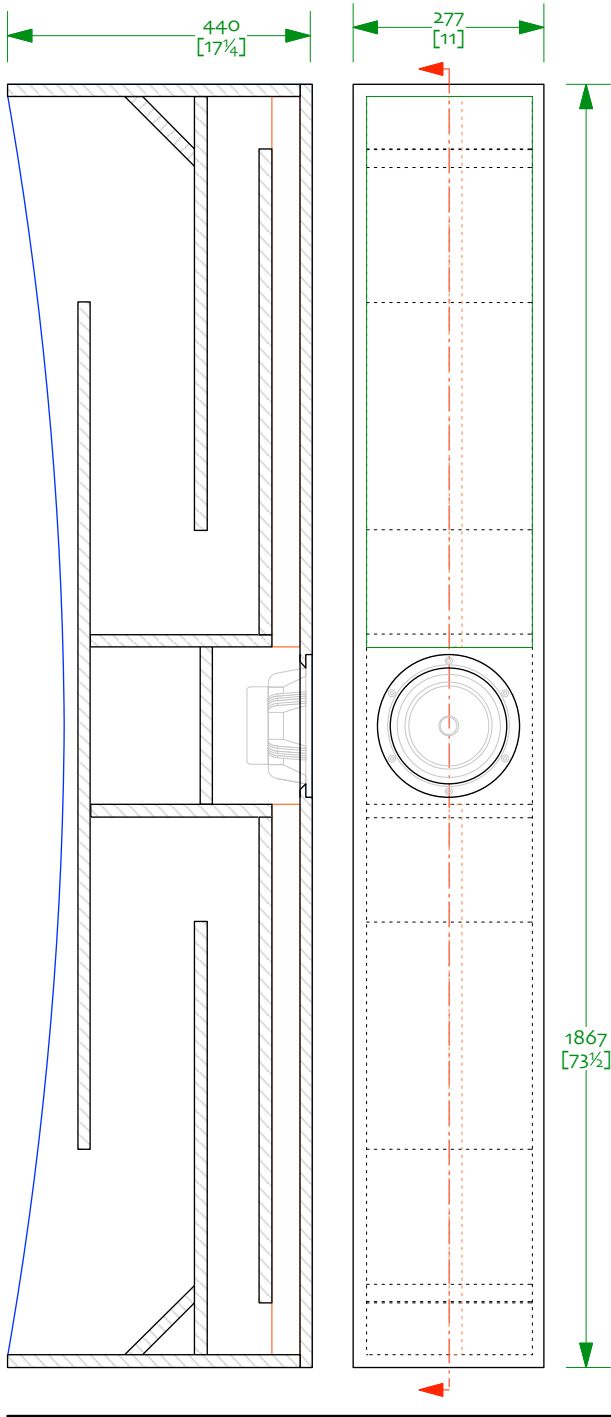
Rear mouth near floor-wall or corner boundary acts to increase the effective size of the mouth by 4x or 8x (theoretical) increase in the size allowing for many octaves of horn loaded frequency response. The curved rear mouth – 1st pioneered by Ron Clarke – makes the high aspect rectangular mouth act more like the ideal circular mouth

internal layout

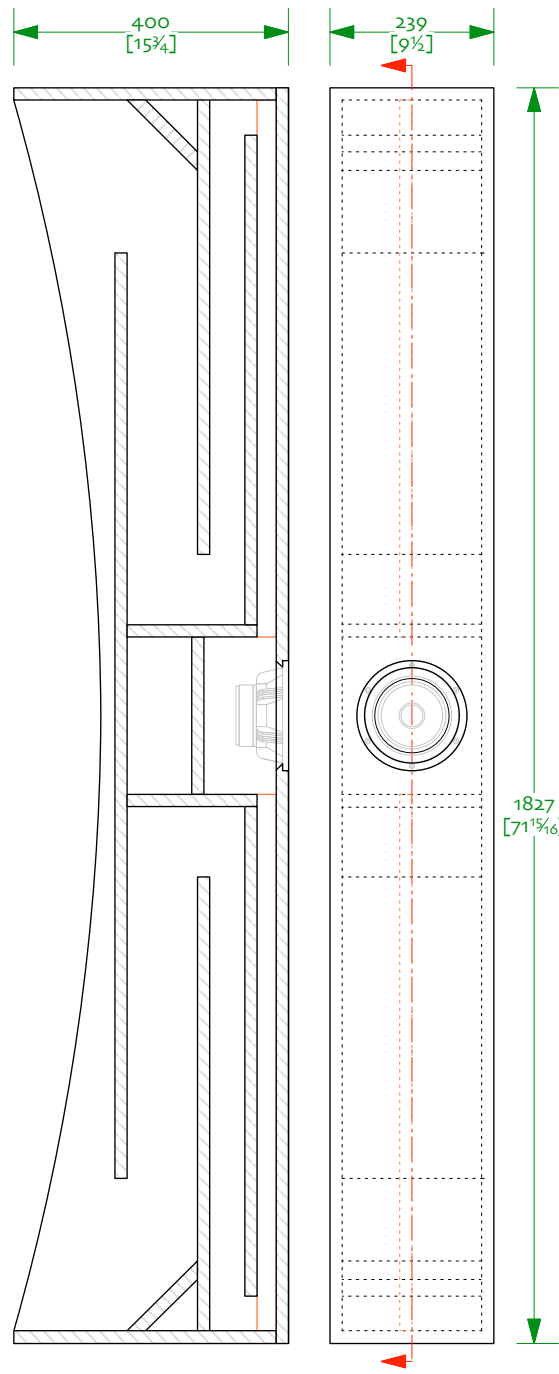
Driver is loaded into an initial air cavity with 2 exists to 2 mirror image sets of manifolds that create an Olson-style quasi-hyperbolic stepped horn.

Mouth is on the rear to take advantage of near-boundary loading and multiplication of mouth area.

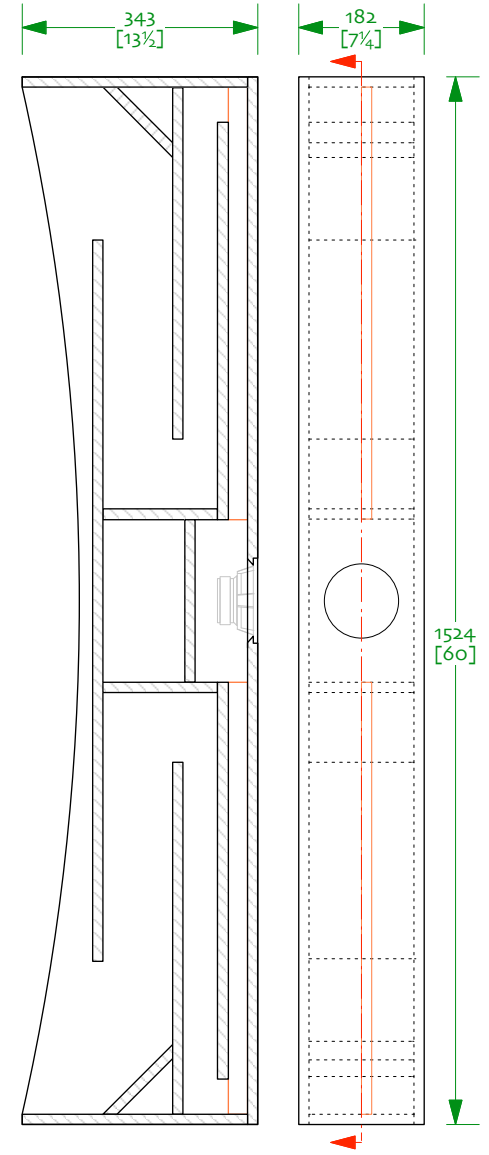
Manifold partitions form braces that make for a very stiff structure. Additional braces in the initial high-pressure manifold section reduce baffle resonances.



Avebury



Silbury



Maeshowe



Megalith Extents 2v1
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designed by Scott Lindgren | drawn by dld
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