

Planet10-hifi miniOnken-style enclosures for the Fostex FF105wk 4" (100mm) drivers. 3 levels of build difficulty. Prime designation is mFonken105P (prefix m = milli). Trapezoid variations have the postfix T. The small variant has the prefix m = milli. CGR = Classic Golden Ratio are rectangular variations of approximately 0.681:1:1.618 aspect ratio

An appendix shows vent changes to use these boxes with FE103-SOL limited edition driver.

miniOnkens feature

- 1/ high resistance slot ports for low sensitivity to dynamic changes in speaker parameters,
- 2/ rigid enclosures with low resonance characteristics
- 3/ narrow baffles with large chamfers for excellent imaging
- 4/ single driver, no crossovers, no filters required (Twins excepted)

\* miniOnken nomenclature is explained here: <http://www.diyaudio.com/forums/planet-10-hifi/160747-minionken-nomenclature-what-those-names.html>

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## Drawings/Contents (provisional)

io/ Intro  
i1 / List of drawings (black are present in the current doc, grey are planned\*)  
i1/ Pictures  
i2/ Notes  
i3/ box comparison

**Trapezoidal miniOnken** (5 litre)  
mFonken105T visualization  
mFonken105T plan 15mm / 9  
mFonken105T detail 15mm / 9  
mFonken105T 4x8' cut 15mm / 9

**Rectangular miniOnken** (5 litre)  
mFonken105R visualization  
mFonken105R plan 15mm / 9  
mFonken105R 4x8' cut 15mm / 9

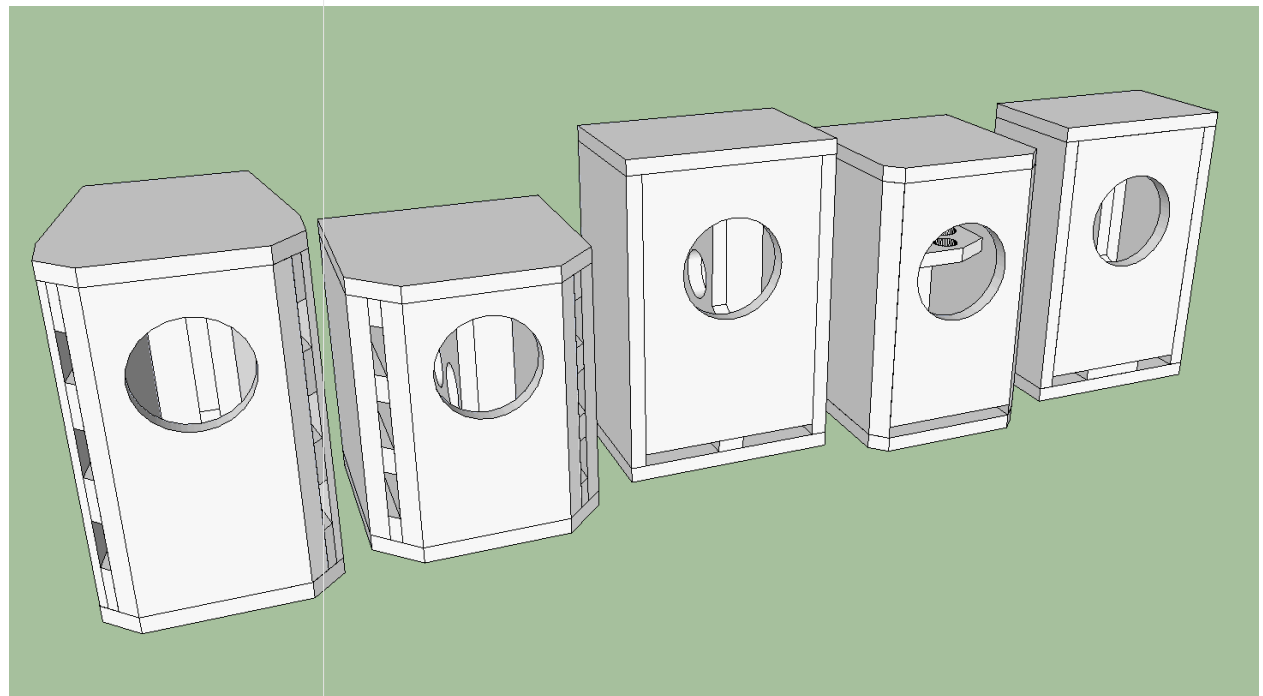
**Classic Golden Ratio miniOnken** (5 litre)  
CGR mFonken105 visualization  
CGR mFonken105 plan 15mm  
CGR mFonken105 4x8' cut 15mm

**millSize miniOnken** (4.7 litre)  
mFonken105 visualization  
mFonken105 plan 15mm  
mFonken105 4x8' cut 15mm  
mFonken105 damping plan  
mFonken105 damping cut

**smaller Classic Golden Ratio miniOnken** (3.6 litre)  
CGR dmFonken105 visualization  
CGR dmFonken105 plan 15mm  
CGR dmFonken105 4x8' cut 15mm

FE103-SOL Appendix

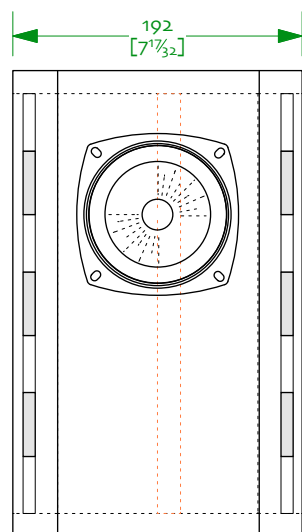
Fostex FF105wk dimensions



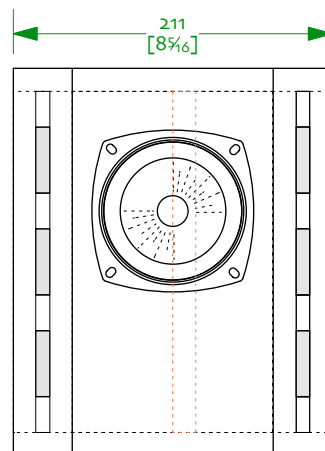
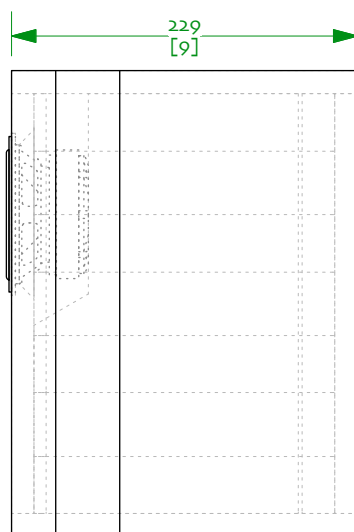
*\* as a subscriber please ask if you need any of the uncompleted drawings or even one that i didn't think of*

please email me <david@planet10-hifi.com> with corrections & suggestions to make this document more useful

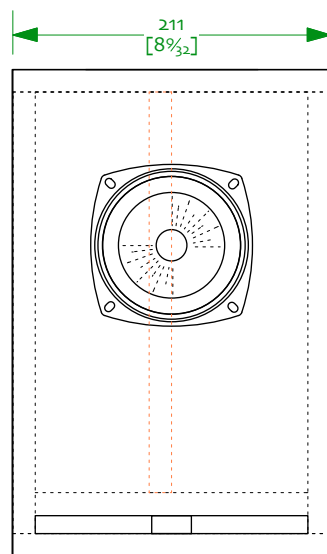
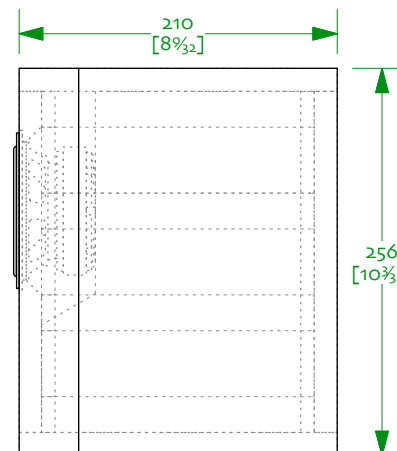
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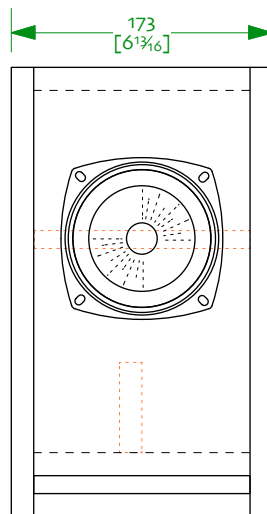
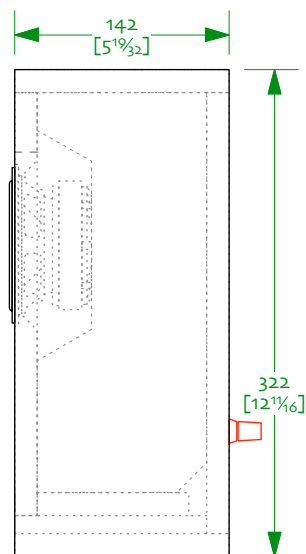
mFonken105T



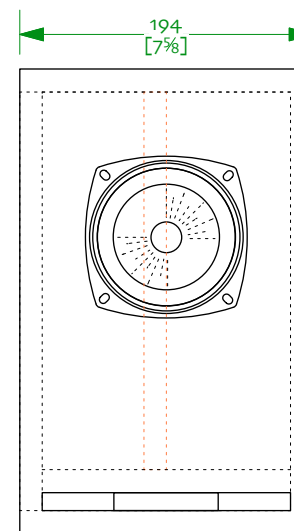
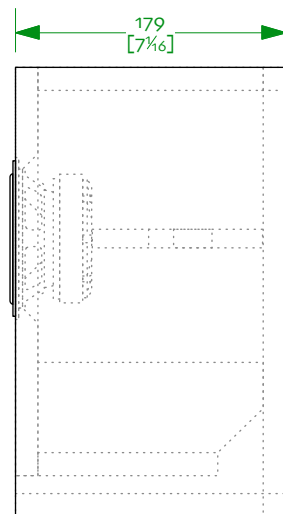
mFonken105R



Classic Golden Ratio mFonken105T



mFonken105



Classic Golden Ratio dmFonken105

