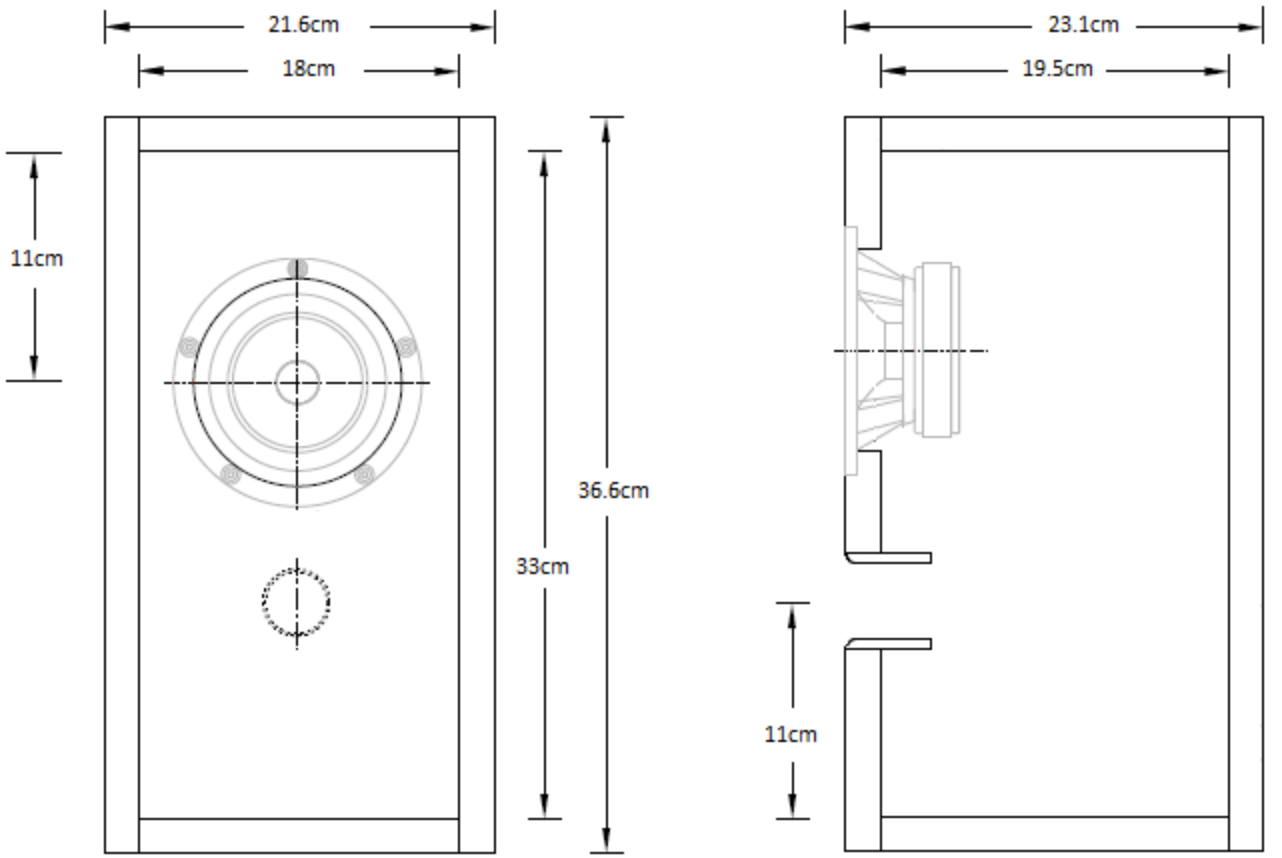
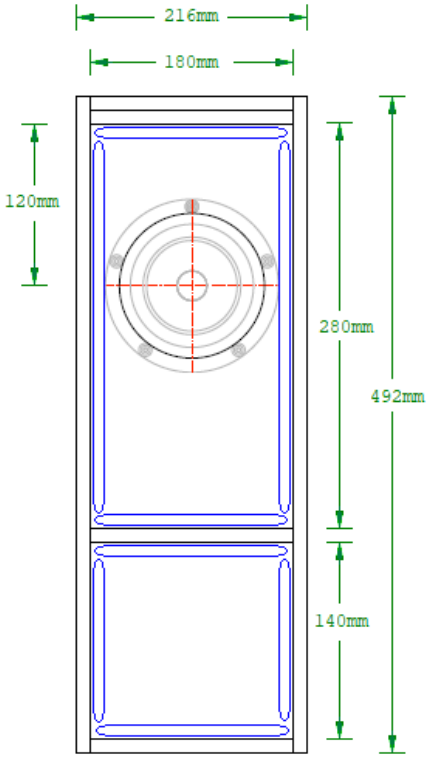
Fenlon 10

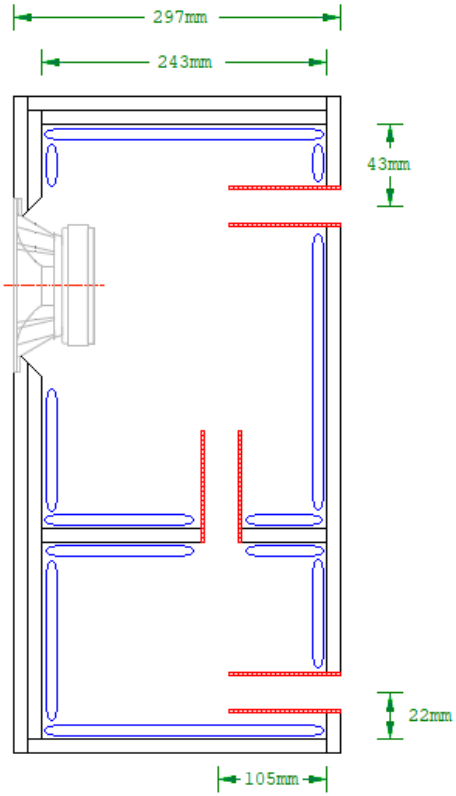
markaudio
New Audio Fidelity

-Simple vented box designed by Mark Fenlon for Alpair 10M and 10P drivers!
-Can be used with either driver! No changes needed!
-Industry norm front port!
-Projects bass forwards for interesting and captivating sound charactertisic!
-Simple construction!
-Port 3cm wide and 5cm long for powerful bass performance!
-Line cabinet apart from front panel with 2cm - 3cm thick polyester damping material



Design consultant: Dr. S. Lindgren





Oberon

Traditional Double Chamber Reflex for Markaudio Alpair 10.3

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Notes:

0/ 18mm sheet build material assumed. MDF acceptable, quality void-free multiply recommended
1/ Front & top baffles doubled for increased rigidity
2/ Bracing not shown but recommended. See Pensil 12 drawing for example of optimal longitudinal bracing
3/ Chamfer / relieve driver cutout to reduce reflections & enhance airflow
4/ All internal faces lagged 19mm OC-703 bonded acoustic fibreglass board, SAE-F10, jute or equivalent. Avoid acoustic foam
5/ Vents untapered cylindrical ducts 30mm diameter x 124mm long

Design assumes voltage source amplifier with 1/2ohm series R for typical wire loop, connection losses

Fb = 38.5Hz
F6 = 35Hz [nominal anechoic]
F10 = 31Hz [nominal anechoic]

Design S. Lindgren
June 2021

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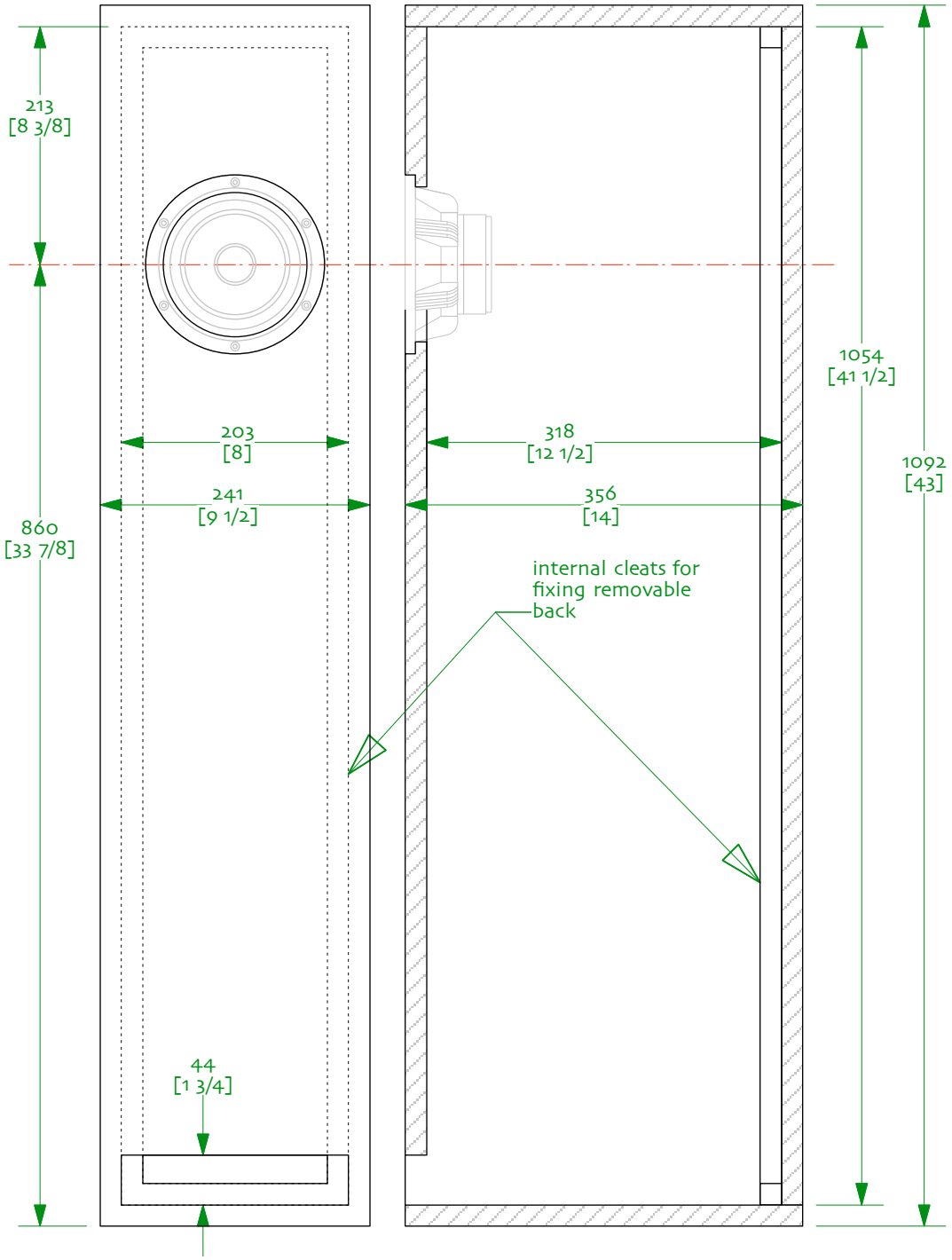
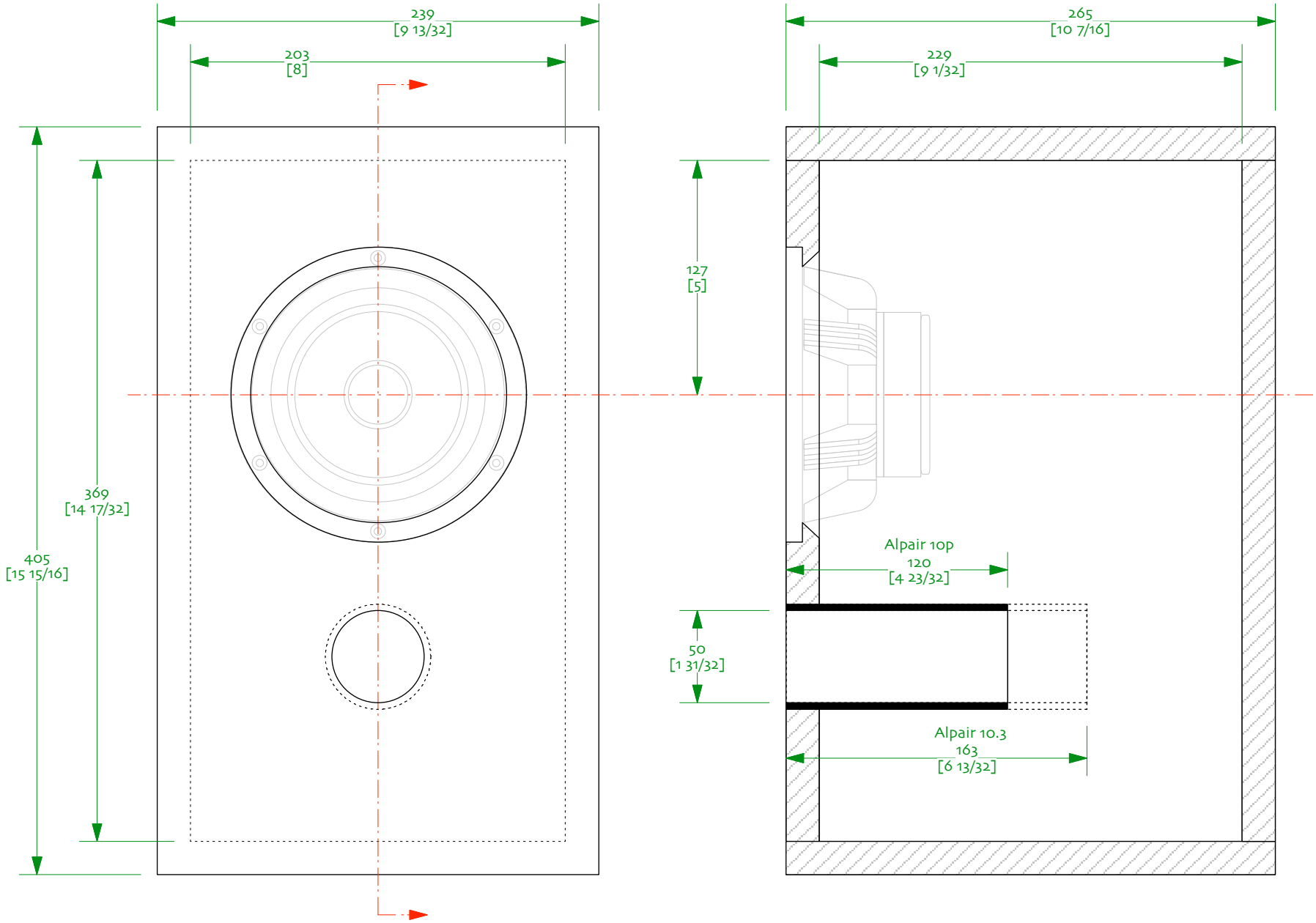
Pensil 10.3 | Alpair 10.3

designed by S Lindgren drawn by dld
14-june-2013 / update 30-january-2014



Notes:
0/ drawing uses 3/4" (19.1mm) material. 18-20mm OK. Quality multi-ply recommended
1/ stuff with 1.56 lbs / ft^3 (25 ounces = 709 g) of polyfill
2/cleats on back to allow for removable back, useful for adjusting the stuffing
3/ bracing is optional. For bracing ideas plase see the bracing sheet in the superPensil12 plans



Notes

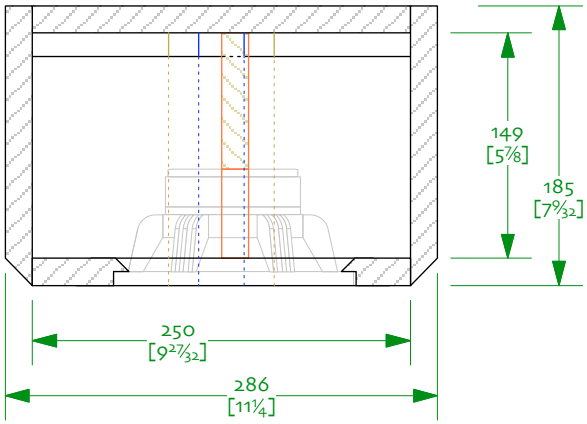
0/ drawn with 18 mm material
1/ good multi-ply recommended
2/ optional bracing not shown (necessary if MDF used). Orient braces vertically
3/ line all internal faces with damping (no egg-crate foam)
4/ open upback-side of driver cutout (45° bevel shown)

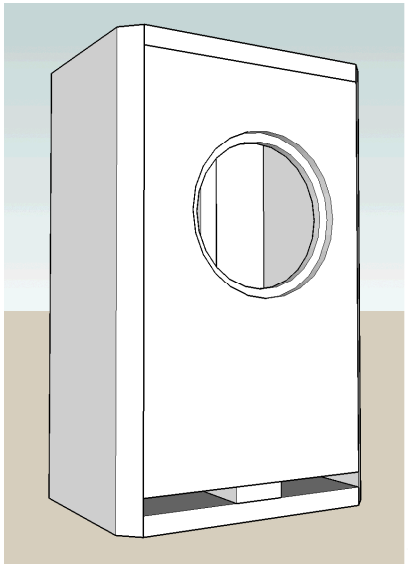
WODEN DESIGN

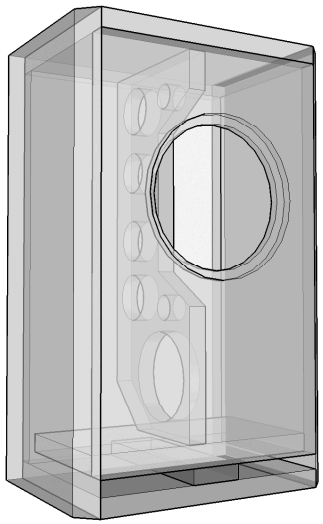
Simple Reflex 0v9

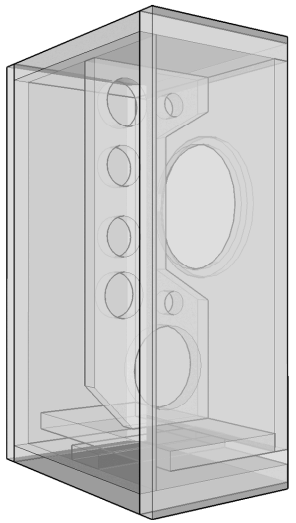
Mark Audio Alpair 10p/10.3

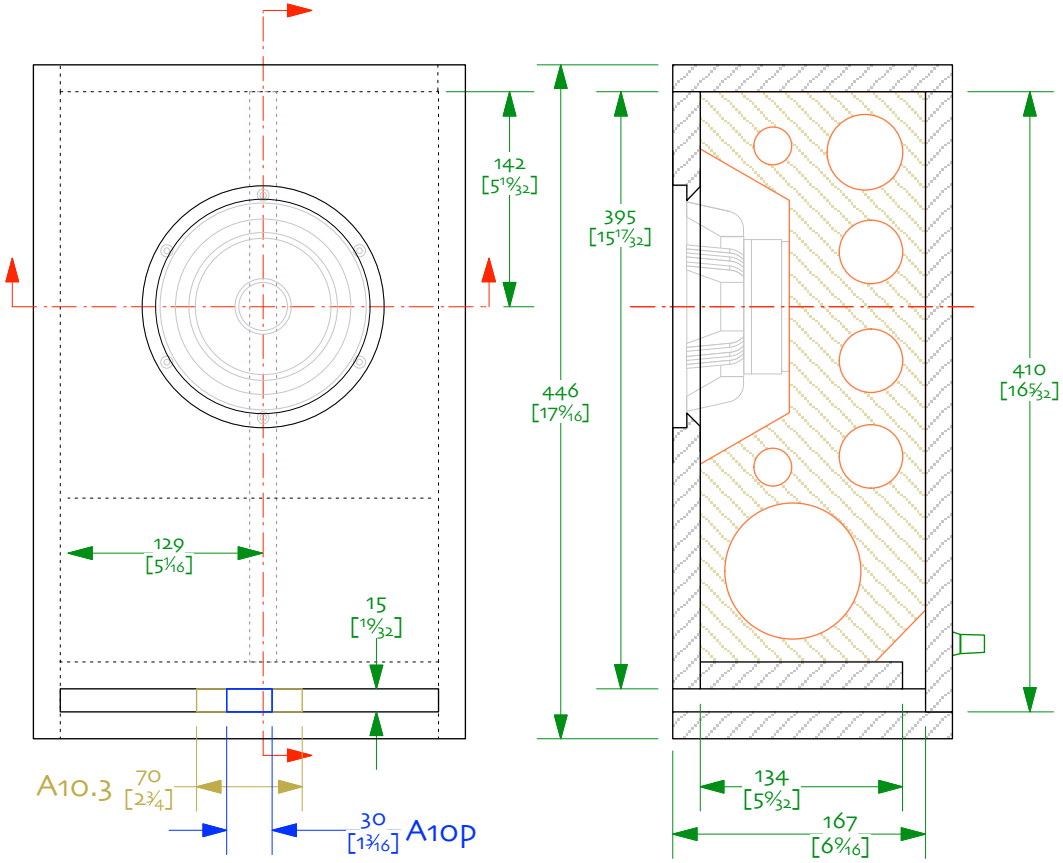
Sheet 0 – 18mm plan
designed by Scott Lindgren
drawn by dld / 10-february-2014

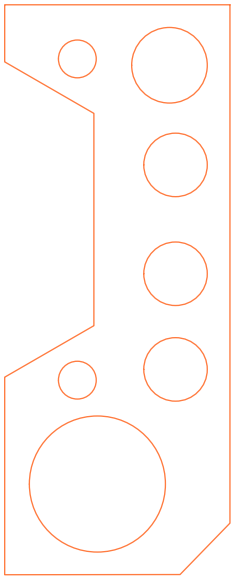












Notes:

0/ A classic Golden Ratio based derivative of the Mar-Ken10.3/10p designed for Mark Audio Alpair 10.3 or Alpair 10p (only change is width of vent spacer_
1/ to be built as mirror imaged pairs – drivers are mounted off-centre
2/ All panels 18mm
3/ Vents are 15mm high, vent spacer is 70mm A10.3 or 30mm A10p wide and centrally located
4/ brace shape is only suggestive – prime purpose is to brace driver, it needs to be about 35-40% holes. (ie if you have to mount a terminal cup in the middle, you'll want to make sure the brace allows clearance), It is centrally mounted on the driver magnet
5/ Don't forget to angle cut the back of the driver cut-out to give it breathing room
6/ All internal panels lined with ~1/2" (12mm) cotton or wool felt (preferred), 3/4" (19mm) poly-fluff batting, or 1" (25mm) fiberglass Note that it is hard to get into the box after it is sealed up (means terminals need to be solderable from outside the box as well)

planet_10 hi-fi

Classic Golden Ratio
Mar-Ken10.3 / 10p ov8

Mark Audio Alpair 10.3/Alpair 10p

04-march-2014 | designed & drawn by dld