Ambiance channel for

2x Markaudio CHR70.3 4in wideband drive units

436mm

400mm

171mm

135mm

135mm   135mm

225mm

261mm

Notes:

0/ Sealed box enclosure designed for use as ambiance or rear-channel
1/ Drivers wired in series or parallel as desired
2/ 18mm sheet material assumed
2/ All internal faces lagged 20mm - 25mm BAF wadding or equivalent

1/2ohm series R assumed for typical wire loop, connection resistance

Nominal Qtc = 0.79
Nominal Fb = 88Hz
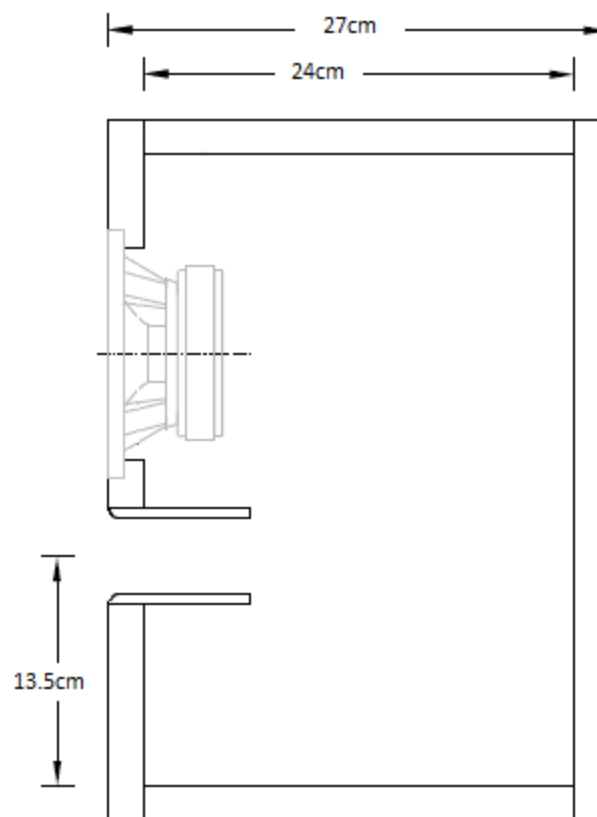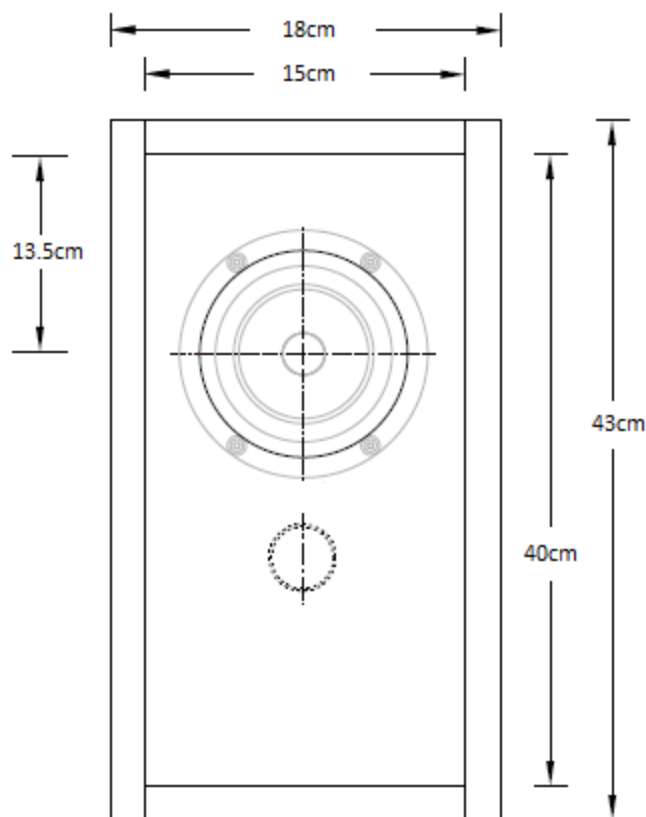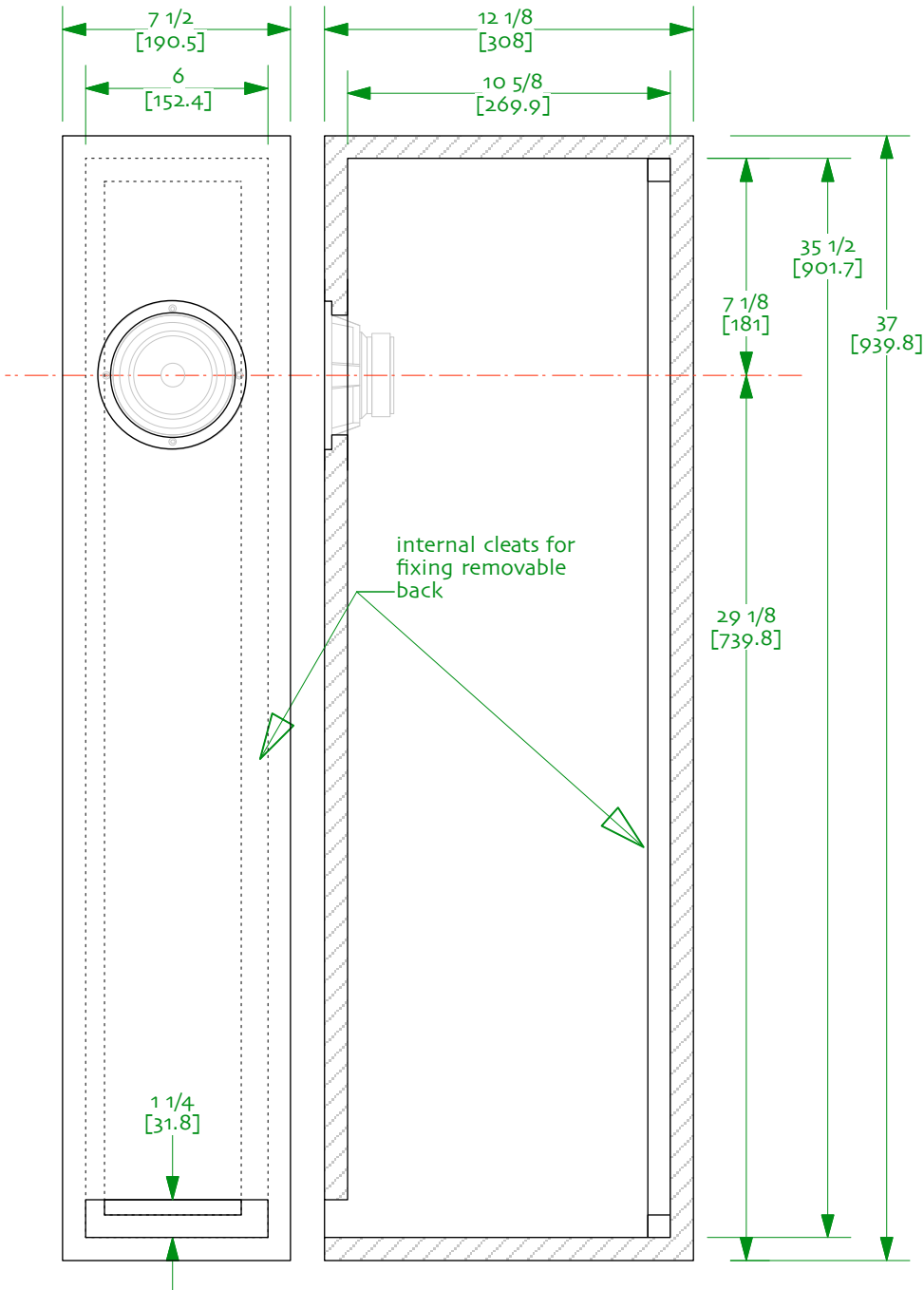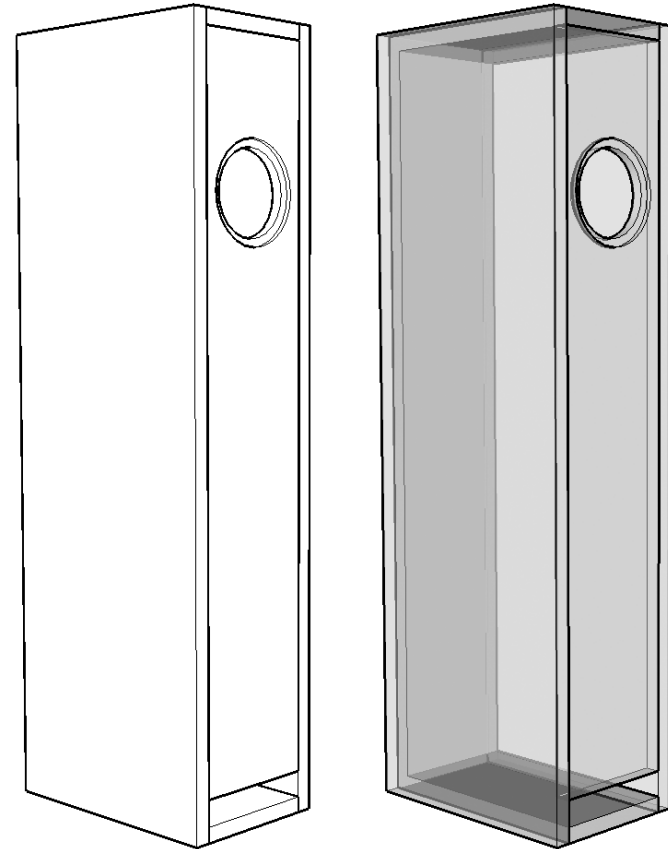Nominal F6 = 62Hz [anechoic]

Fenlon 70CHR

-Simple vented box designed by Mark Fenlon for CHR70 Gen.3 driver!
-Industry norm front port!
-Projects bass forwards for interesting and captivating sound charactertisic!
-Simple construction!
-Port 3cm wide and 4.4cm long for powerful bass performance!
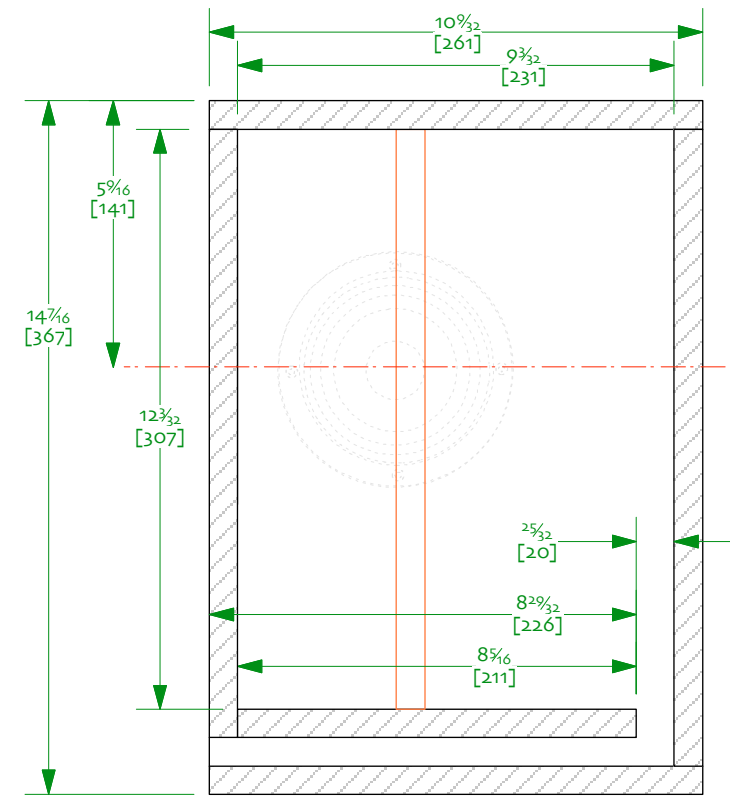-Line box apart from front panel with 2cm - 3cm thick polyester damping material

18cm

15cm

13.5cm

43cm

40cm

27cm

24cm

13.5cm
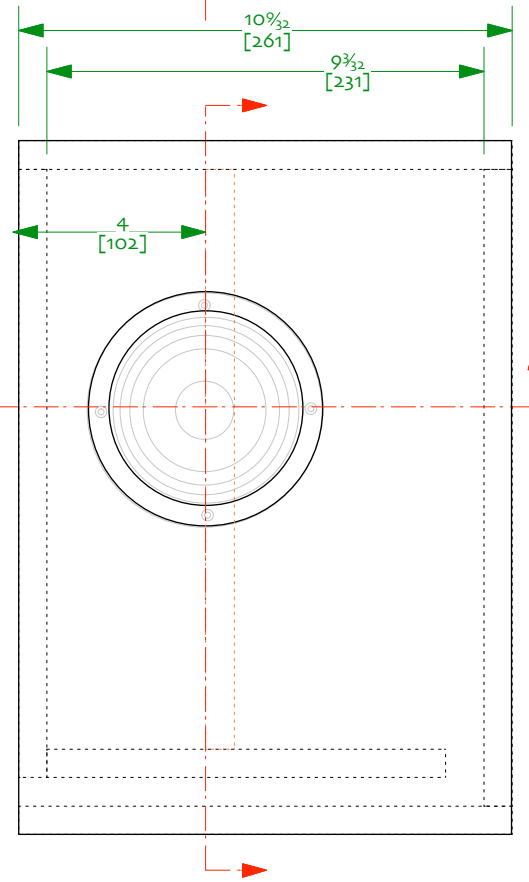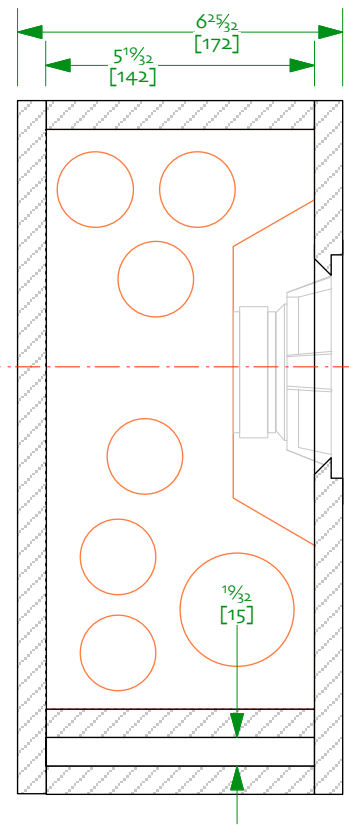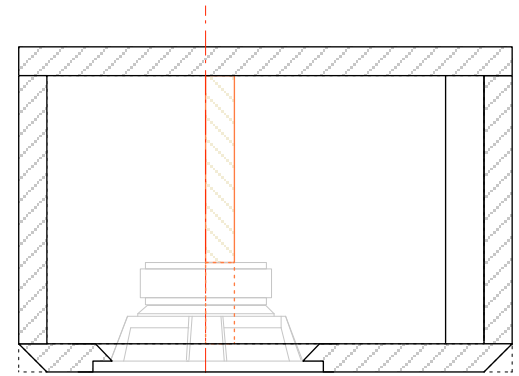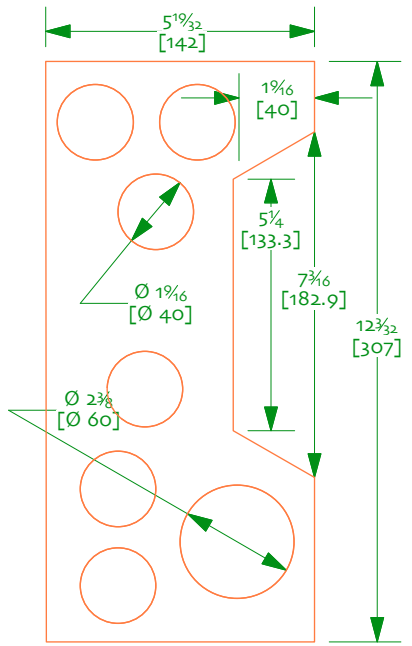
Design consultant: Dr. S. Lindgren

Pensil R70.3 | CHR-70.3

designed by S Lindgren drawn by dld
20-june-2011
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markaudio
New Audio Fidelity

7 1/2 [190.5]

6 [152.4]

12 1/8 [308]

10 5/8 [269.9]

35 1/2 [901.7]

7 1/8 [181]

37 [939.8]

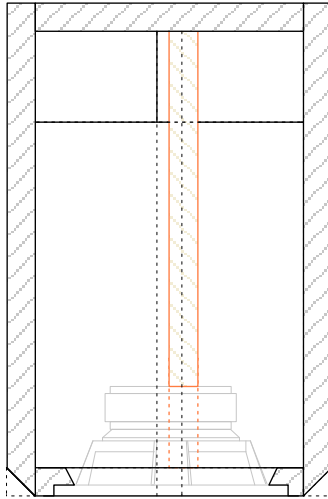29 1/8 [739.8]

internal cleats for fixing removable back

1 1/4 [31.8]

Notes:
0/ drawing uses 3/4" (19.1mm) material. 18-20mm OK. Quality multi-ply recommended
1/ stuff with 0.7 lbs / ft^3 (14.7 ounces = 410 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/ A classic Golden Ratio based derivative of the dCHR-Ken70 designed for modified Mark Audio CHR70 (any series) will work well with stock driver
1/ All panels 15mm
2/ 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 intentionally just off centre.
3/ Don't forget to angle cut the back of the driver cut-out to give it breathing room
4/ All internal panels lined with ~1/2" (12mm) wool felt (preferred), 1" (25mm) poly-fluff batting, or 3/4" (19mm) fiberglass Note that it is hard to get into the box after it is sealed up

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