

Compact series chamber tuned floorstander for CHN-70 4in wideband drive unit

Notes:

0/ Compact design intended for small spaces & modest SPLs

1/ 12mm sheet material assumed. MDF acceptable, quality void-free multiply (Baltic birch, apple, marine, bamboo etc.) recommended

2/ Lag all internal faces as indicated 10mm acoustic fibreglass board, wool felt, jute, recycled denim or similar. Avoid acoustic foam. Ensure kept away from driver & vents

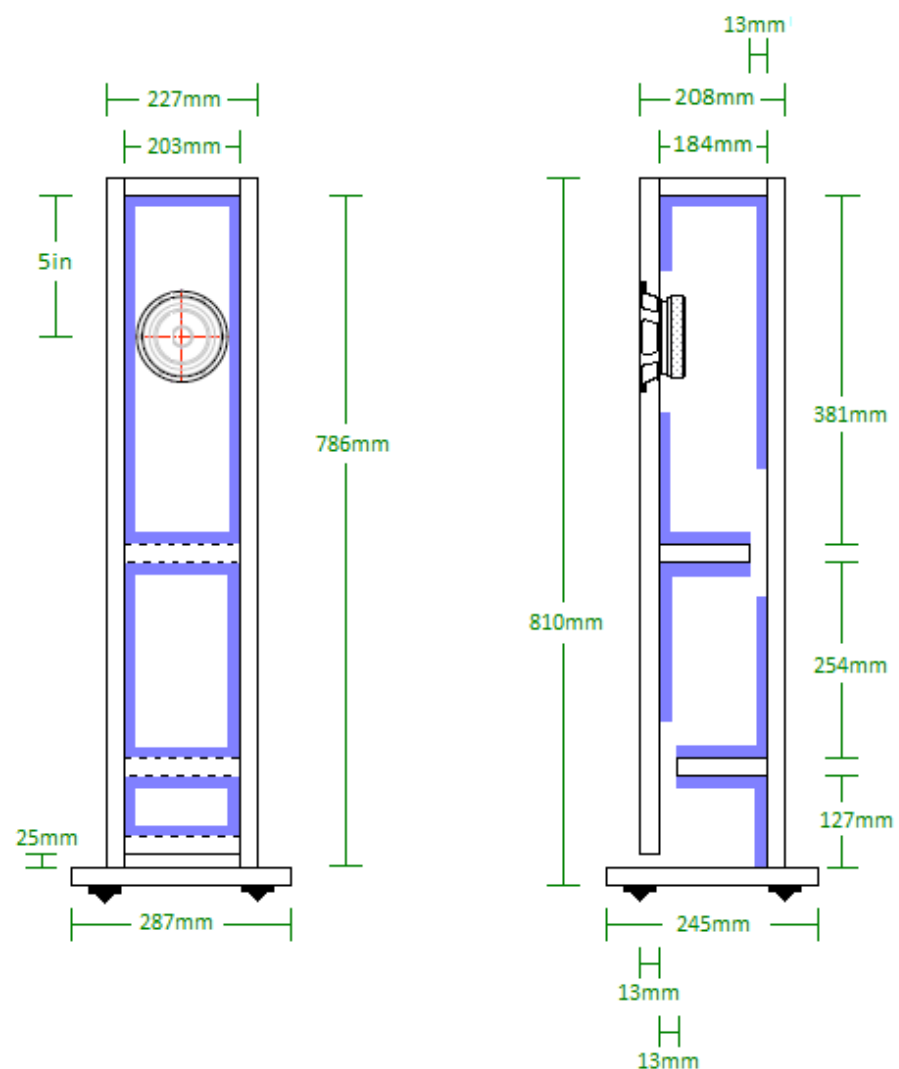
3/ Chamfer driver cutout to improve airflow & reduce reflections

High-gain alignment assumes voltage source amplifier & 1/2 ohm series resistance for typical wire, connection resistance

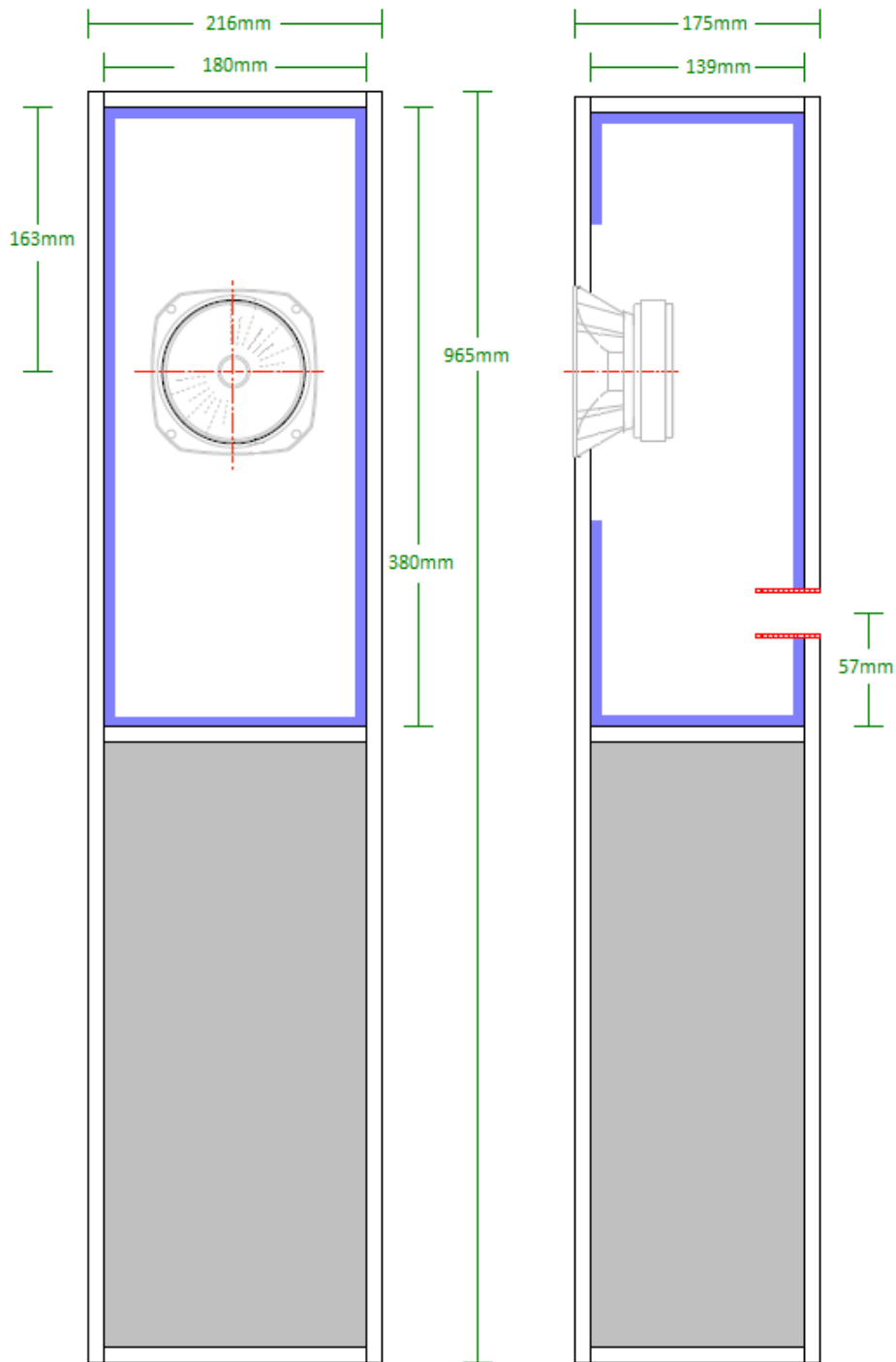
Fb = 60Hz

F3 = 54Hz [nominal anechoic]

F6 = 48Hz [nominal anechoic]



Compact floorstander / standmount for Markaudio CHN-70 Paper cone wideband drive unit



Notes

- 0/ 18mm construction material assumed. MDF acceptable, quality void-free
- 1/ multiply (Baltic birch, apple, marine, bamboo) recommended
- 2/ Bracing not shown but recommended. See SuperPencil 12P for example of preferred longitudinal bracing scheme
- 3/ All internal faces lagged 10mm - 15mm natural-fibre felt
- 4/ Lower partion should be filled with desired material

Design assumes voltage source amplifier & 1/2ohm series resistance for typical wire, connections

Fb = 52Hz

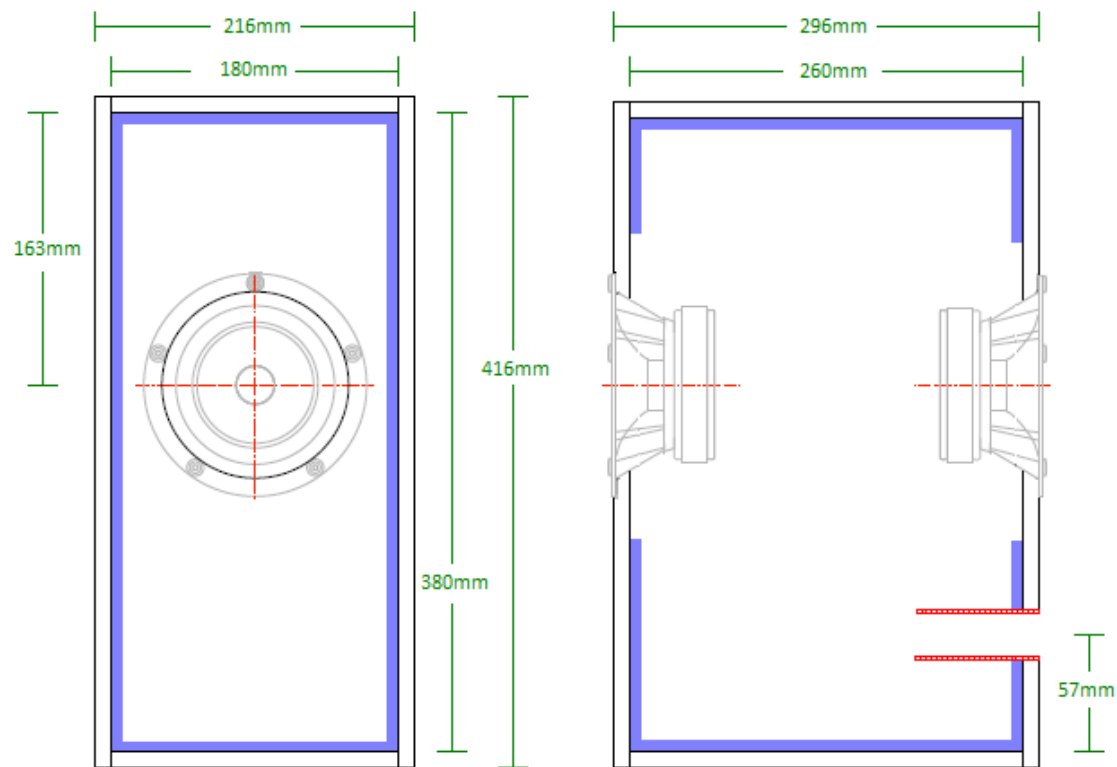
F3 = 48Hz [nominal anechoic]

F6 = 44Hz [nominal anechoic]

Duct positioned on rear baffle. [non-flared] dimensions:

30mm diameter x 67mm long

35mm diameter x 94mm long



*Bipole standmount for
Markaudio CHN-70
Paper cone wideband drive unit*

Notes

- 0/ Drivers wired in series for nominal 10ohm impedance
- 1/ 18mm construction material assumed. MDF acceptable, quality void-free multiply (Baltic birch, apple, marine, bamboo) recommended
- 2/ Bracing not shown but recommended. See SuperPencil 12P for example of preferred longitudinal bracing scheme
- 3/ All internal faces lagged 10mm - 15mm natural-fibre felt
- 4/ Rear driver may be low-passed via large value shunt capacitor. Ensure HF impedance does not drop excessively low for amplifier

Design assumes voltage source amplifier & 1/2ohm series resistance for typical wire, connections

Fb = 52Hz

F3 = 50Hz [nominal anechoic]

F6 = 44Hz [nominal anechoic]

Duct positioned on rear baffle. [non-flared] dimensions:

30mm diameter x 28mm long

35mm diameter x 41mm long

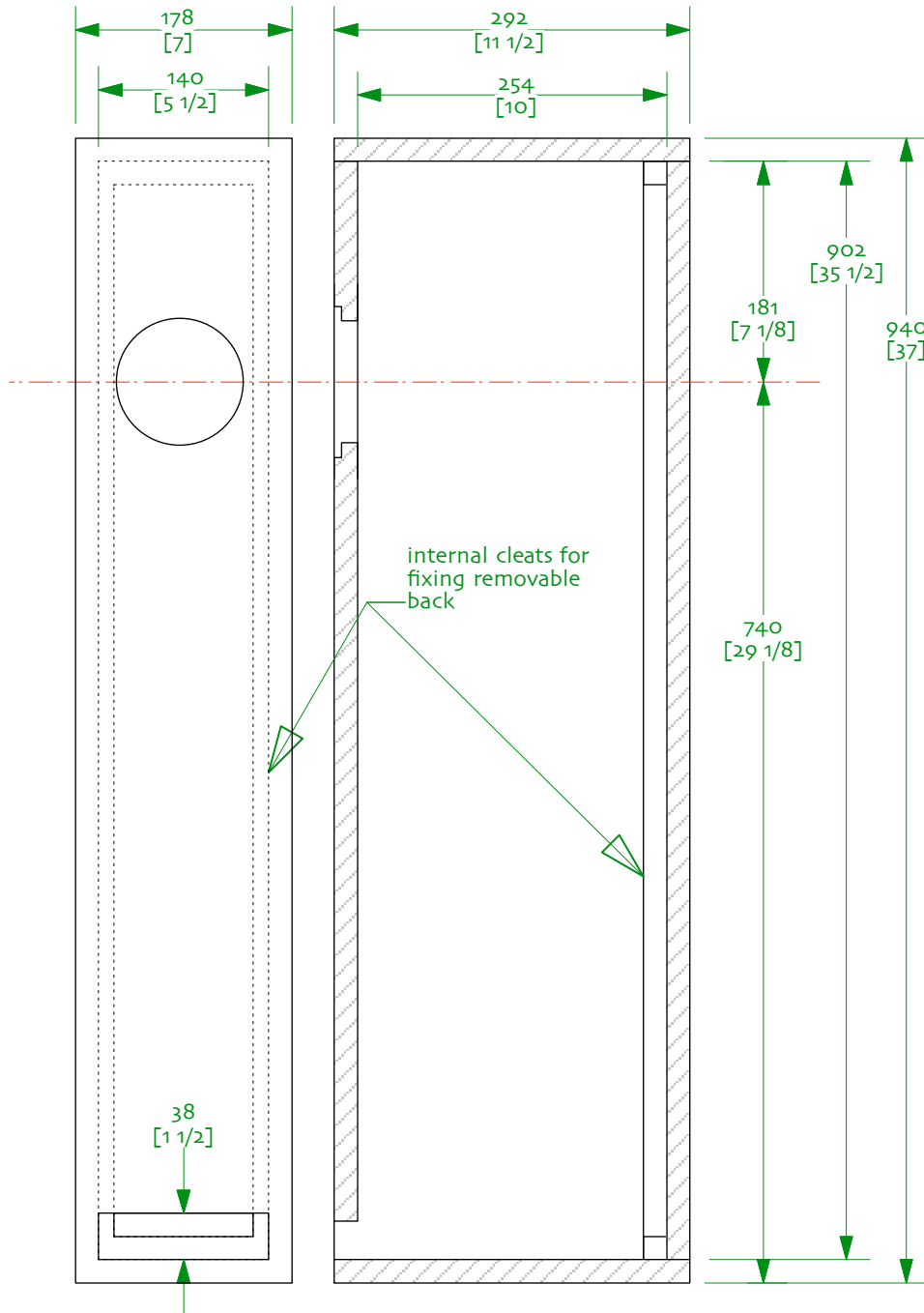
40mm diameter x 57mm long

50mm diameter x 96mm long



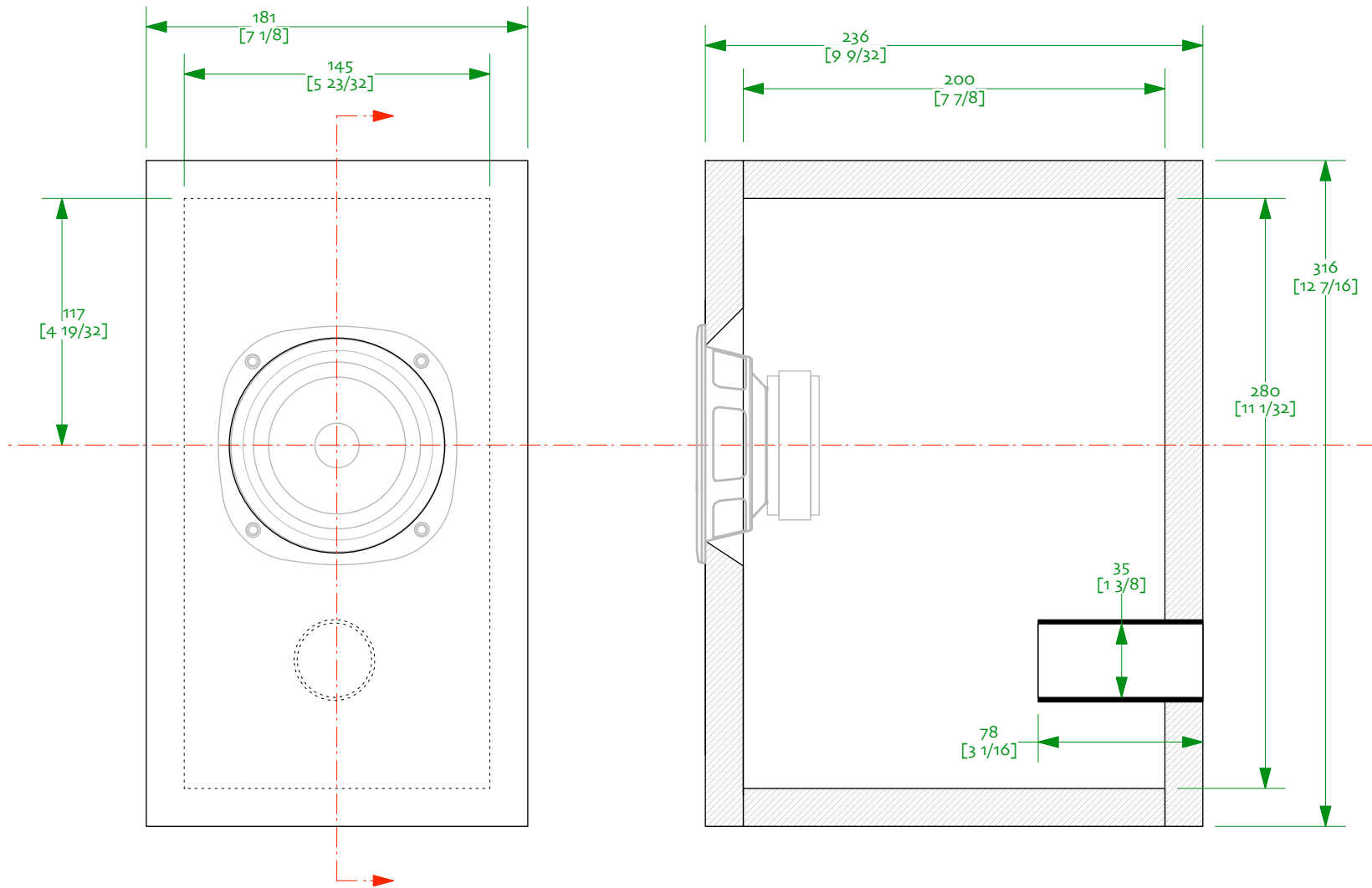
Pensil N70 | CHN-70

designed by S Lindgren drawn by dld
10-september-2014
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Notes:

- 0/ drawing uses 3/4" (19.1mm) material. 18-20mm OK. Quality multi-ply recommended
- 1/ stuff with 0.65 lbs / ft³ (12 ounces = 340 g) of polyfill
- 2/ cleats on back to allow for removable back, useful for adjusting the stuffing
- 3/ bracing is optional. For bracing ideas please see the bracing sheet in the superPensil12 plans



Notes:

- 0/ designed for the Mark Audio CHN 70
- 1/ drawn with 18mm material. Quality multi-ply recommended
- 2/ lag top, back, and one sidewall with 12-18mm cotton or wool felt or similar. Avoid acoustic foam
- 3/ bracing is optional but recommended
- 4/ don't forget to open up the back of the driver cut-out



CHN Standmount Reflex ov8

Mark Audio CHN 70
 Plan 18mm | 21-july-2018
 designed by Scott Lindgren | drawn by dld
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