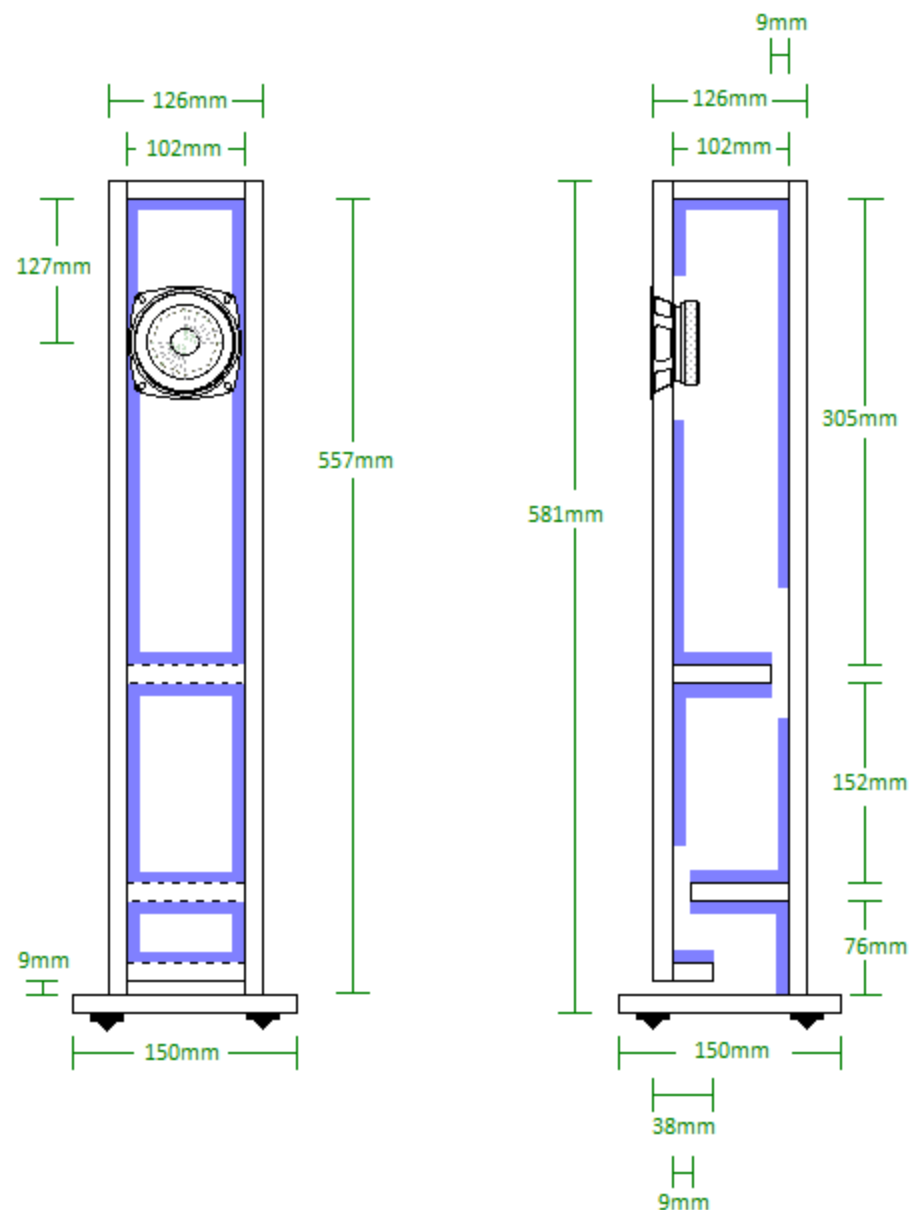


Compact series chamber tuned floorstander for Markaudio Alpha 5.3 3in full-range drive unit



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

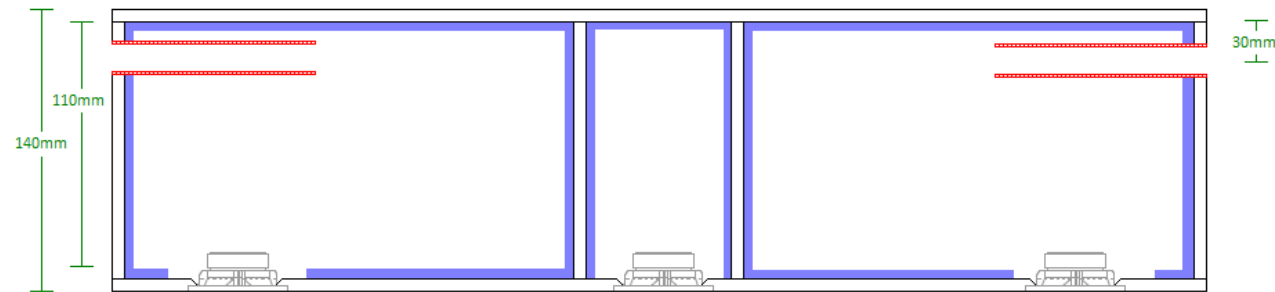
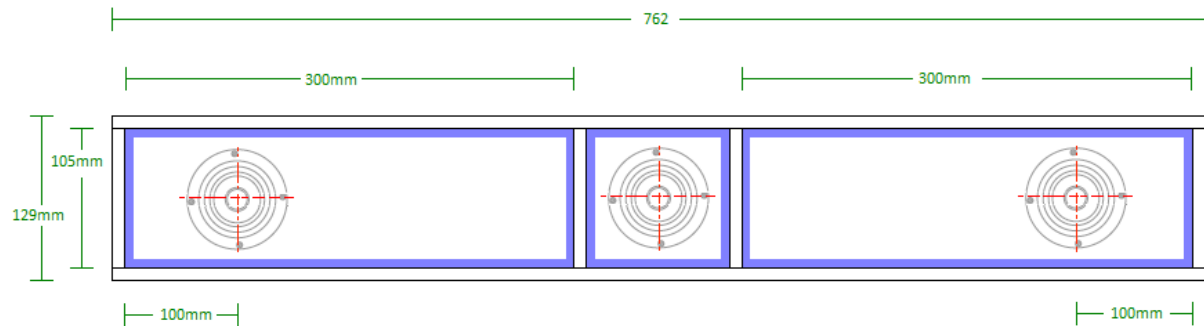
3/ Chamfer driver cutout to improve airflow & reduce reflections

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

Fb = 69Hz

F3 = 65Hz [nominal anechoic]

F6 = 59Hz [nominal anechoic]



Simple 3-driver soundbar for Markaudio Alpha 5.3 3 1/2in wideband drive unit

Notes:

- 0/ Sealed and vented alignment options. For former, delete ducts
- 1/ 12mm sheet build material assumed with 18mm front baffle for increased rigidity
- 2/ Central void should be filled (expanding foam or equivalent) to avoid cavity resonance
- 3/ All internal faces lagged 15mm - 20mm BAF, SAE-F10, jute or equivalent
- 4/ Vent 30mm diameter x 96mm long
- 5/ Design assumes HT receiver with dedicated central channel. Matrix center may be used if amplifier not internally bridged type

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

Fb = 74Hz

F6 = 58Hz [nominal anechoic]

*Simple quad-unit soundbar for
Markaudio Alpha 5.3 3 1/2in wideband drive unit*

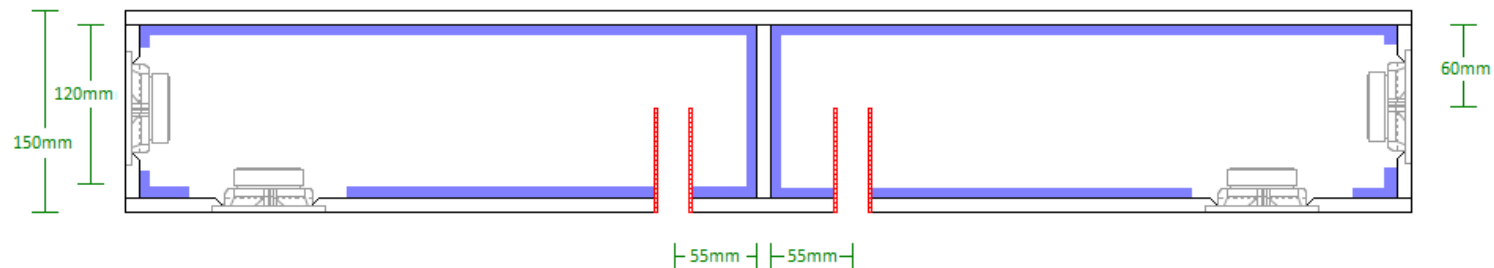
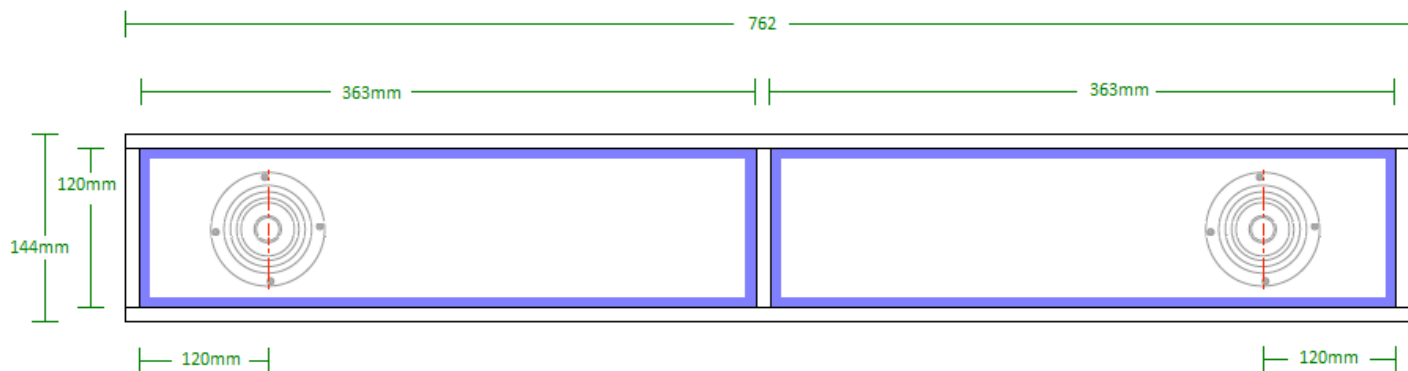
Notes:

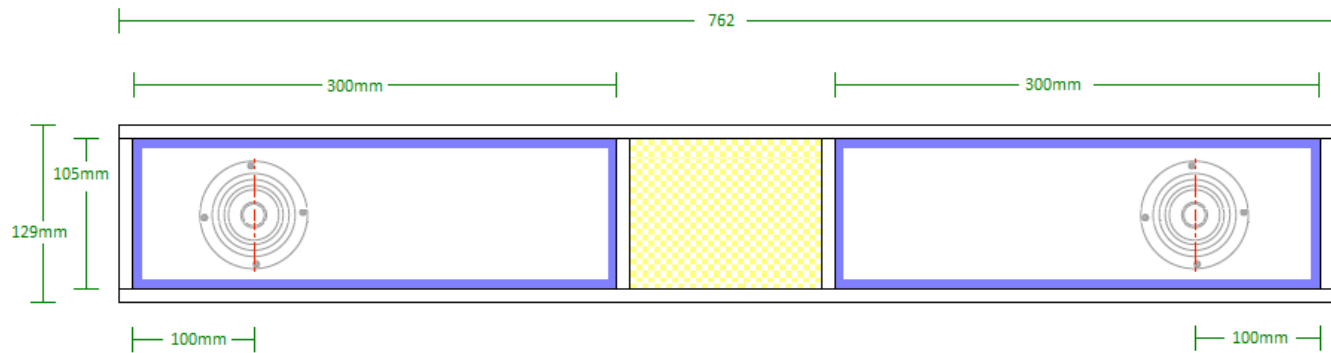
- 1/ 12mm sheet build material assumed with 18mm front baffle for increased rigidity
- 2/ All internal faces lagged 15mm - 20mm BAF, SAE-F10, jute or equivalent
- 3/ Vent 30mm diameter x 50mm long

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

Fb = 74Hz

F6 = 62Hz [nominal anechoic]





*Simple vented box soundbar for
Markaudio Afpair 5.3 3 1/2in wideband drive unit*

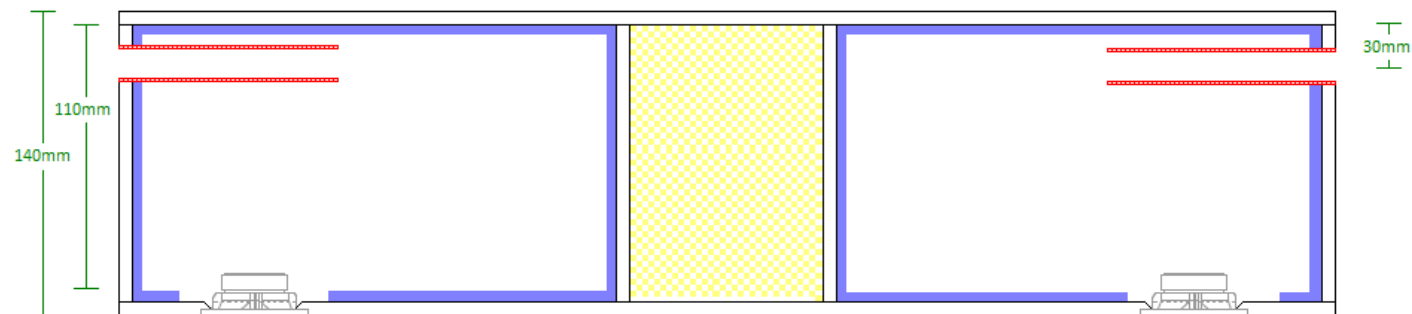
Notes:

- 0/ Sealed and vented alignment options. For former, delete ducts
- 1/ 12mm sheet build material assumed with 18mm front baffle for increased rigidity
- 2/ Central void should be filled (expanding foam or equivalent) to avoid cavity resonance
- 3/ All internal faces lagged 15mm - 20mm BAF, SAE-F10, jute or equivalent
- 4/ Vent 30mm diameter x 96mm long

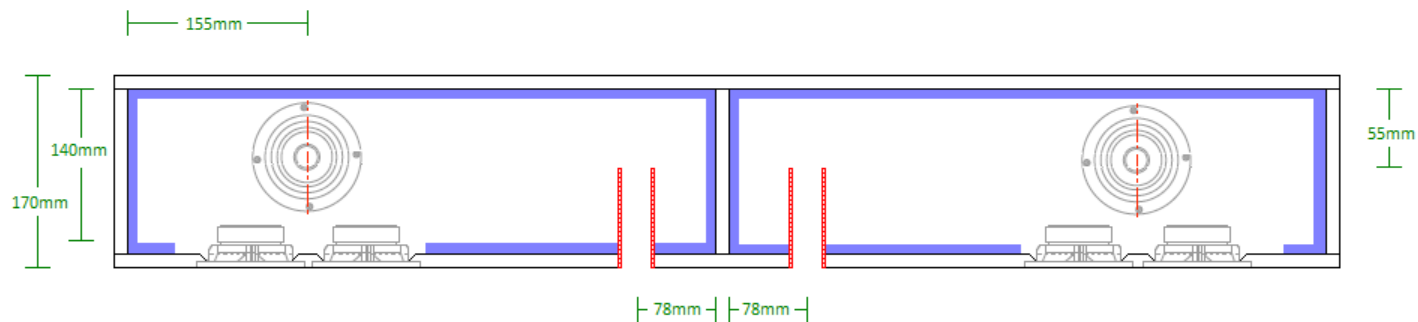
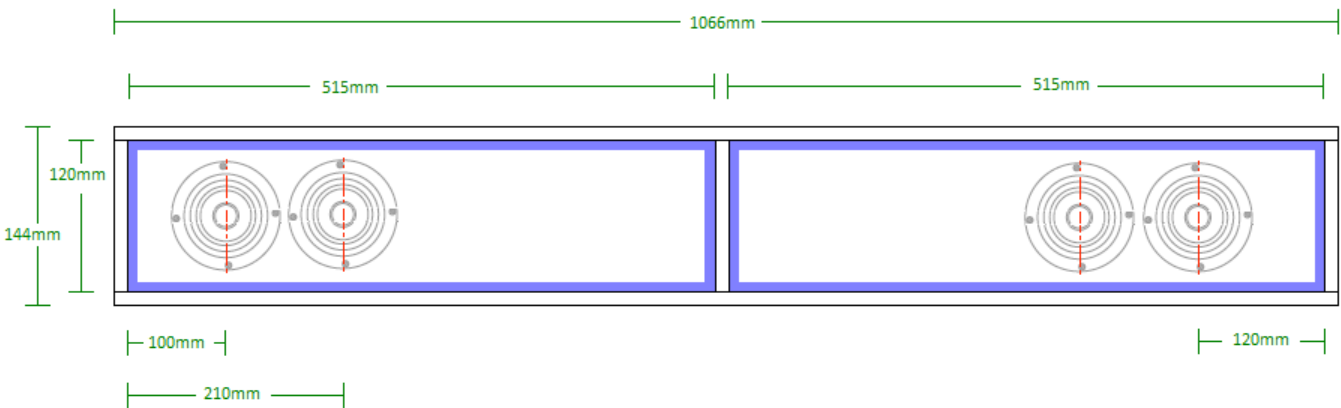
1/2ohm series R assumed for typical wire loop, connection resistance

Fb = 74Hz

F6 = 58Hz [nominal anechoic]



Six-unit soundbar for Markaudio Alpha 5.3 3 1/2 in wideband drive unit

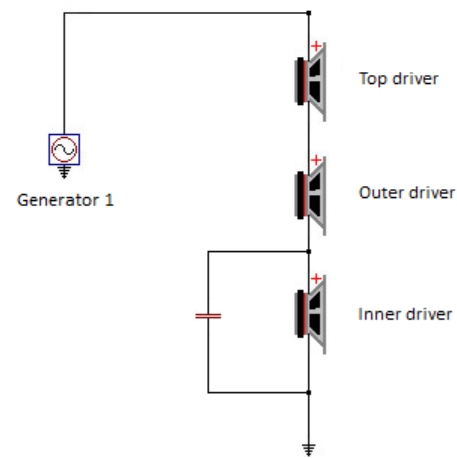


Vent options for target tuning / alignment:
 [Assumes untapered ducts]
 30mm diameter x 30mm long
 35mm diameter x 42mm long
 40mm diameter x 58mm long
 50mm diameter x 97mm long

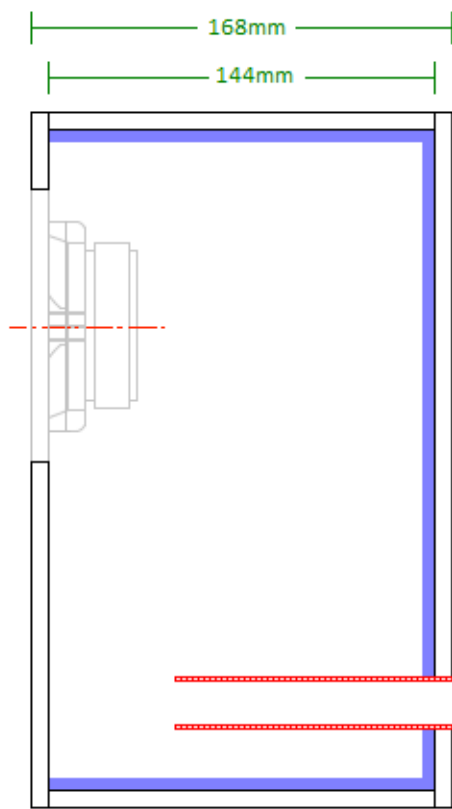
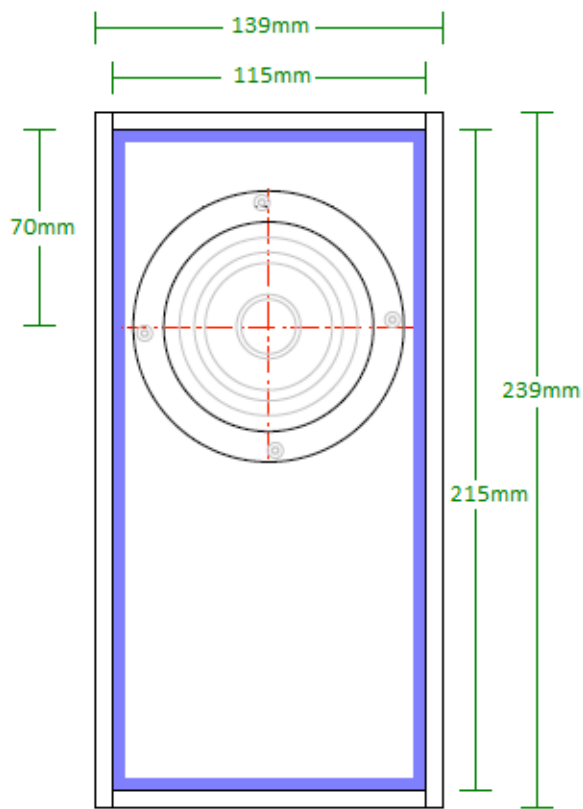
Notes:

- 0/ 12mm sheet build material assumed with 18mm front baffle for increased rigidity
- 1/ All internal faces lagged 15mm - 20mm BAF, SAE-F10, jute or equivalent wool felt. Avoid acoustic foam
- 2/ Vents 30mm diameter x 30mm long. See alternate vent dimensions in table below
- 3/ Drivers wired in series for each channel. Option (below) for low-pass filter for inner drivers on front baffle

Fb = 74Hz
 F6 = 60Hz [nominal anechoic]



Optional low pass for inner driver
 56uF bipolar electrolytic
 [adjust value as desired]



Sub-compact desktop vented box for Mark Audio Alpair 5 Gen.3

- Vent on rear panel
- 12mm construction material assumed. Void-free multiply highly recommended
- Lag all internal faces apart from front panel with 12mm acoustical fibreglass, wool felt, recycled denim or similar. Avoid acoustic foam

Fb = 74Hz

F3 = 63Hz [nominal anechoic]

F6 = 57Hz [nominal anechoic]

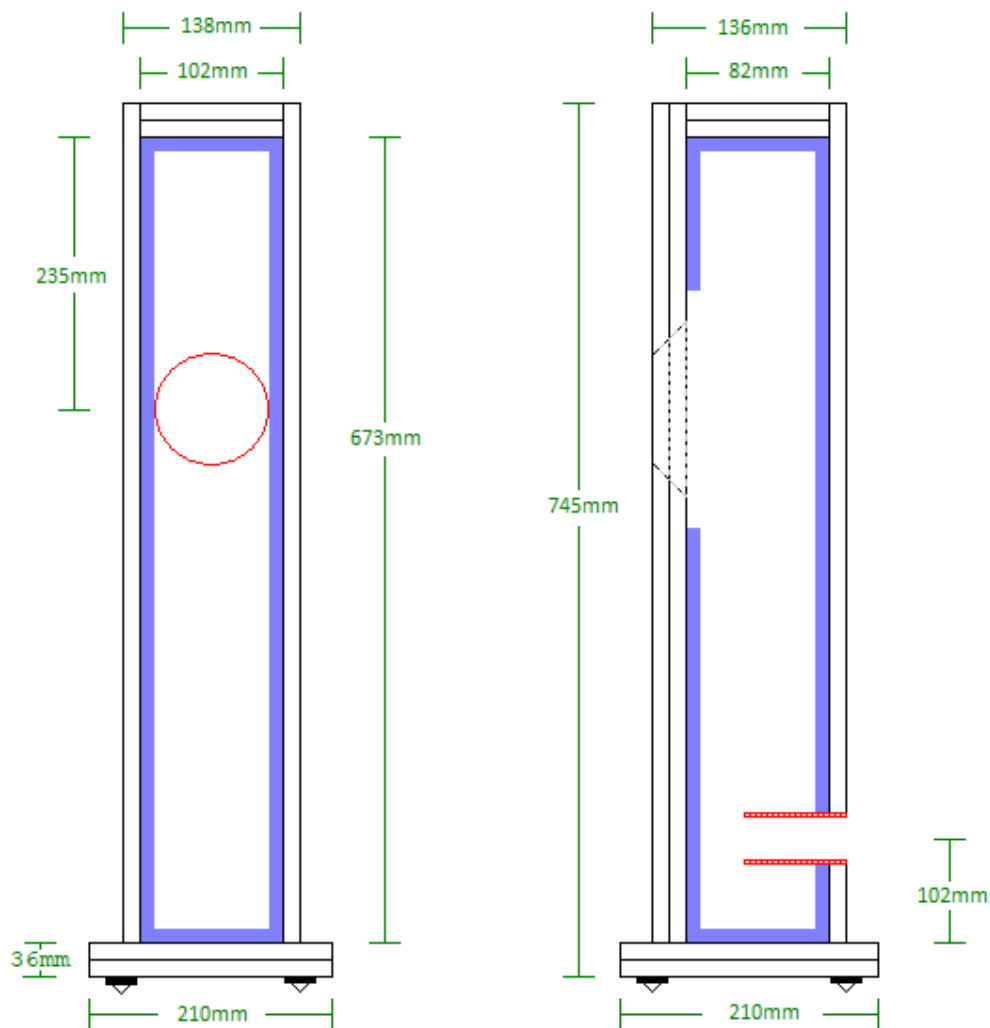
Vent options (untapered cylindrical ducts)

30mm diameter x 89mm long

35mm diameter x 124mm long

Pudu

Compact Mass-loaded Quarter-Wave for Markaudio Alpha 5.3 3in wideband drive unit



Notes:

0/ Internal dimensions given (diagram not to scale)

1/ 18mm build material assumed. MDF acceptable, quality void-free multiply (Baltic birch, apple, marine, bamboo) recommended

2/ Front & top baffles doubled for maximum rigidity

3/ All internal panels lagged 12mm - 15mm acoustic fibreglass board, wool / jute felt or similar. Avoid acoustic foam

4/ Chamfer driver cutout to ensure good air-flow

5/ Vent on rear baffle

Alignment assumes voltage source amplifier with 1/2ohm series resistance for typical wire, connection resistance

Vent dimension options (untapered cylindrical ducts):

30mm diameter x 29mm long

35mm diameter x 41mm long

40mm diameter x 60mm long

45mm diameter x 76mm long

50mm diameter x 102mm long

Fb = 72Hz

F3 = 68Hz [nominal anechoic]

F6 = 62Hz [nominal anechoic]