

Design notes:

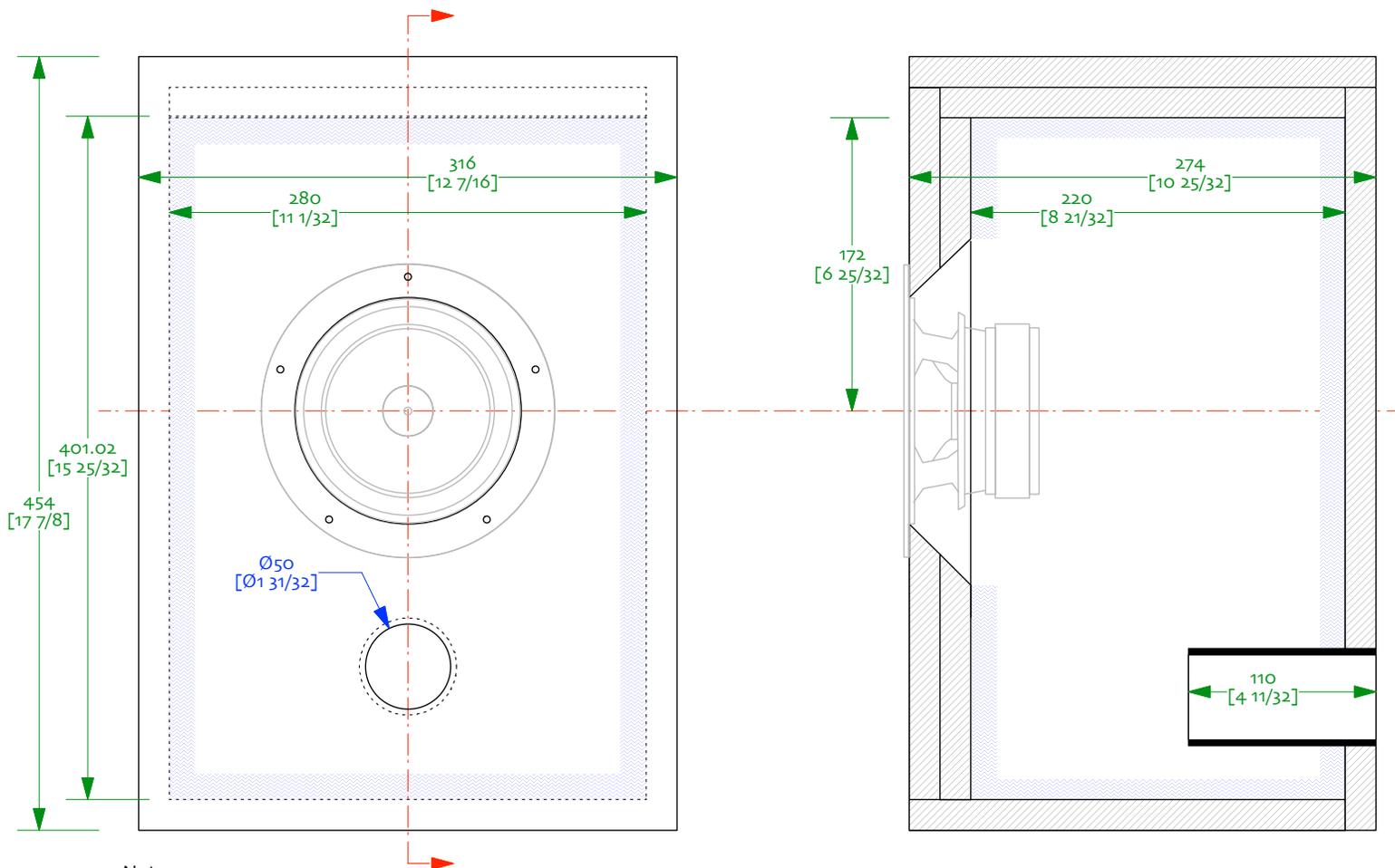
- a/ 18 litre vented box standmount enclosure with a damped alignment to 45Hz. Voltage-source / high damping factor amplifier assumed.
- b/alignment incorporates 0.25 - 0.5 ohm series resistance for wire, connections
- c/ rear vent location employed for reduced noise
- d/ suitable for use relatively near boundaries & in small spaces due to well-damped acoustic alignment and broad tuning.
- e/ Fb = 45Hz / F3 = 46/F6 39Hz (nominal anechoic)

Notes

- o/ 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 15mm - 20mm [3/4in] wool felt or similar [blue on drawing]. Avoid foam.
- 4/ If 2in vent used it should be 5in
- 5/ open up back-side of driver cutout (45° bevel shown)



Pactolus OV93
 Mark Audio CHN-110
 Sheet 0 - 18mm plan
 designed by Scott Lindgren
 drawn by dld / 14-november-2019
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Notes

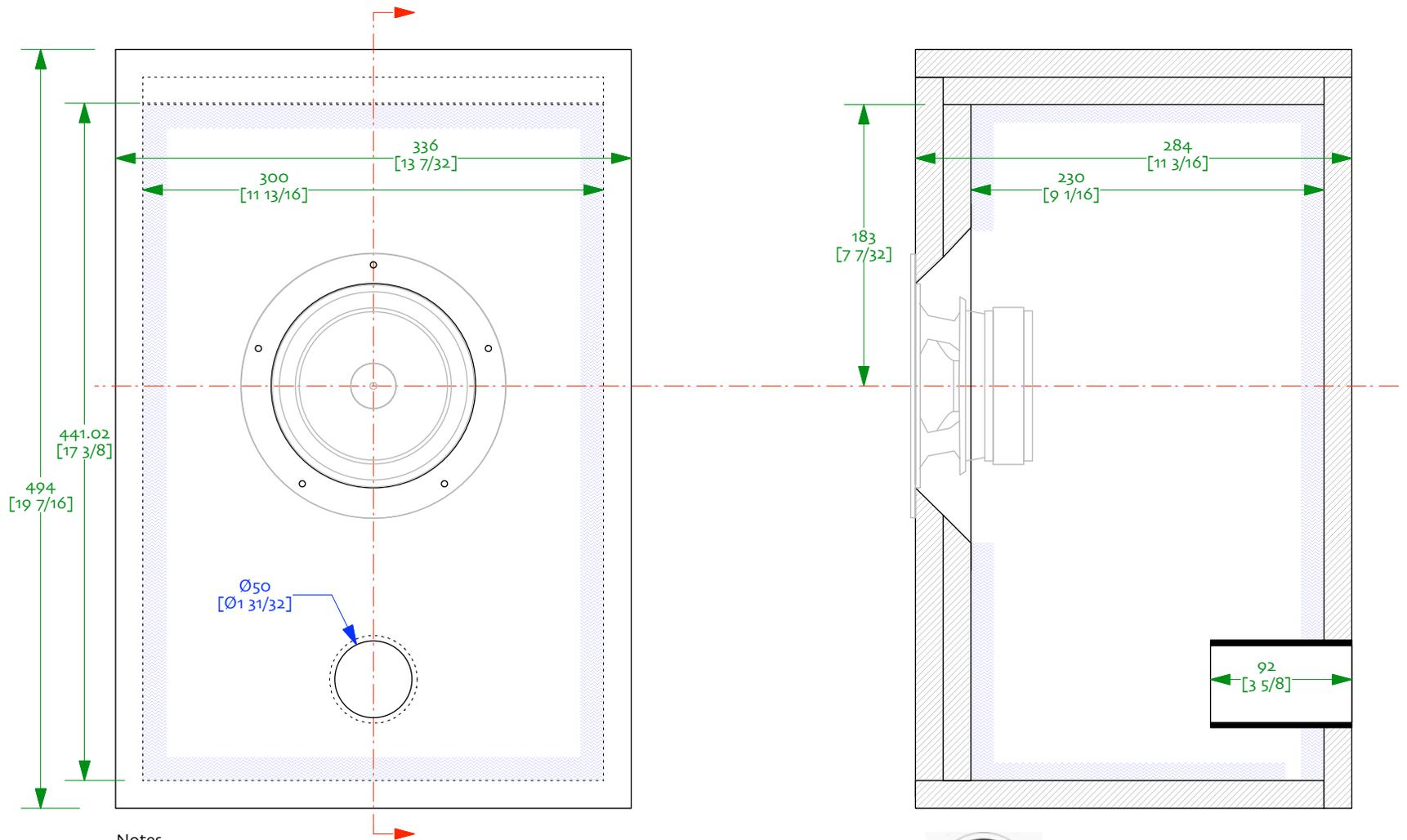
- 0/ drawn with 18 mm material
- 1/ good multi-ply recommended
- 2/ optional bracing not shown (necessary if MDF used).
Orient braces vertically
- 3/ line all internal faces with damping 15mm - 20mm [3/4in] wool felt or similar [blue on drawing]. Avoid foam.
- 4/ If 2in vent used it should be 4.375in
- 5/ open up back-side of driver cutout (45° bevel shown)

Design notes:

- a/ 24 litre vented box standmount enclosure with a damped alignment to 45Hz. Voltage-source / high damping factor amplifier assumed.
- b/alignment incorporates 0.25 - 0.5 ohm series resistance for wire connections
- c/ rear vent location employed for reduced noise. d/ istance for wire connections
- Rear vent location employed for reduced noise. Speaker is suitable for use nearer boundaries than 30 litre FB-40-30 enclosure due to damped acoustic alignment and slightly broader tuning.
- e/ Fb = 41Hz / F3 = 40/F6 36Hz (nominal anechoic)



Pelorus ov92
 Mark Audio CHN-110
 Sheet 0 - 18mm plan
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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 15mm - 20mm [3/4in] wool felt or similar [blue on drawing]. Avoid foam.
- 4/ If 2in vent used it should be 3.625in
- 5/ open up back-side of driver cutout (45° bevel shown)

Design notes:

- a/ 30 litre vented box standmount enclosure with a damped alignment to 45Hz. Voltage-source / high damping factor amplifier assumed.
- b/ alignment incorporates 0.25 - 0.5 ohm series resistance for wire, connections
- c/ enclosure provides near maximally-flat alignment to 40Hz. Voltage-source / high damping factor amplifier assumed. Rear vent location employed for reduced noise. Avoid use near boundaries or bass gain may become excessive.
- e/ $F_b = 40\text{Hz}$ / $F_3 = 36/F_6$ 32Hz (nominal anechoic)



Perseus ov91
 Mark Audio CHN-110
 Sheet 0 - 18mm plan
 designed by Scott Lindgren
 drawn by dld / 13-november-2019
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Imbolc ML-V 0v91
CHN-110 | plan (18mm)
designed by Scott Lindgren | drawn by dld
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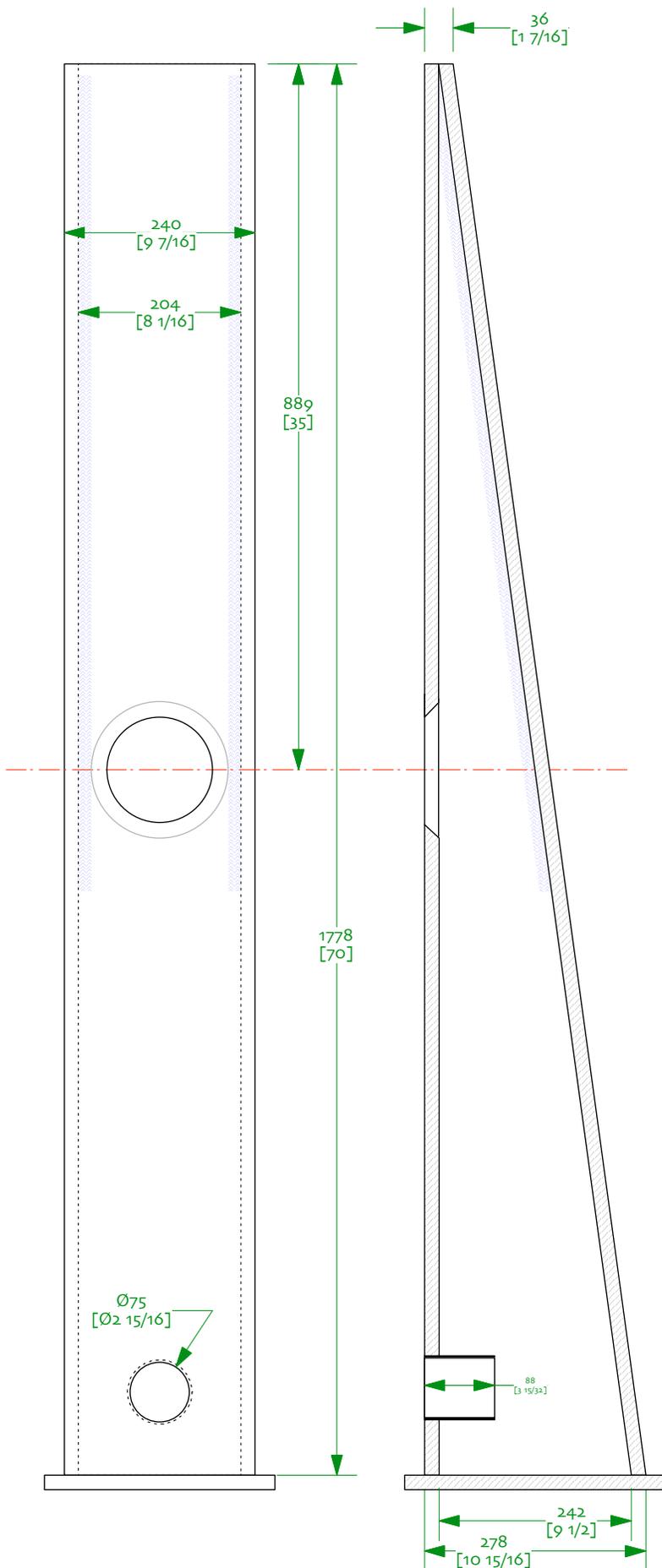
Notes

- 0/ drawn with 18 mm material
- 1/ good multi-ply recommended
- 2/ optional bracing not shown (necessary if MDF used). Orient braces vertically
- 3/ damping applied back and side walls to 152mm [6in] below driver. 15mm - 20mm [3/4in] wool felt or similar [blue on drawing] recommended. Avoid acoustic foam
- 4/ If 3in vent used it should be 3.5in
- 5/ open up back-side of driver cutout (45° bevel shown)

Design notes:

- a/ mass-loaded Voigt horn provides relatively flat alignment to 41Hz. Voltage-source / high damping factor amplifier assumed.
- b/ alignment incorporates 0.25 - 0.5 ohm series resistance for wire, connections
- c/ driver and vent may be positioned on the vertical or sloping baffle
- e/ $F_b = 41\text{Hz}$ / $F_3 = 37/F_6$ 32Hz (nominal anechoic)

This is a free example of a member of the Woden Festival Series

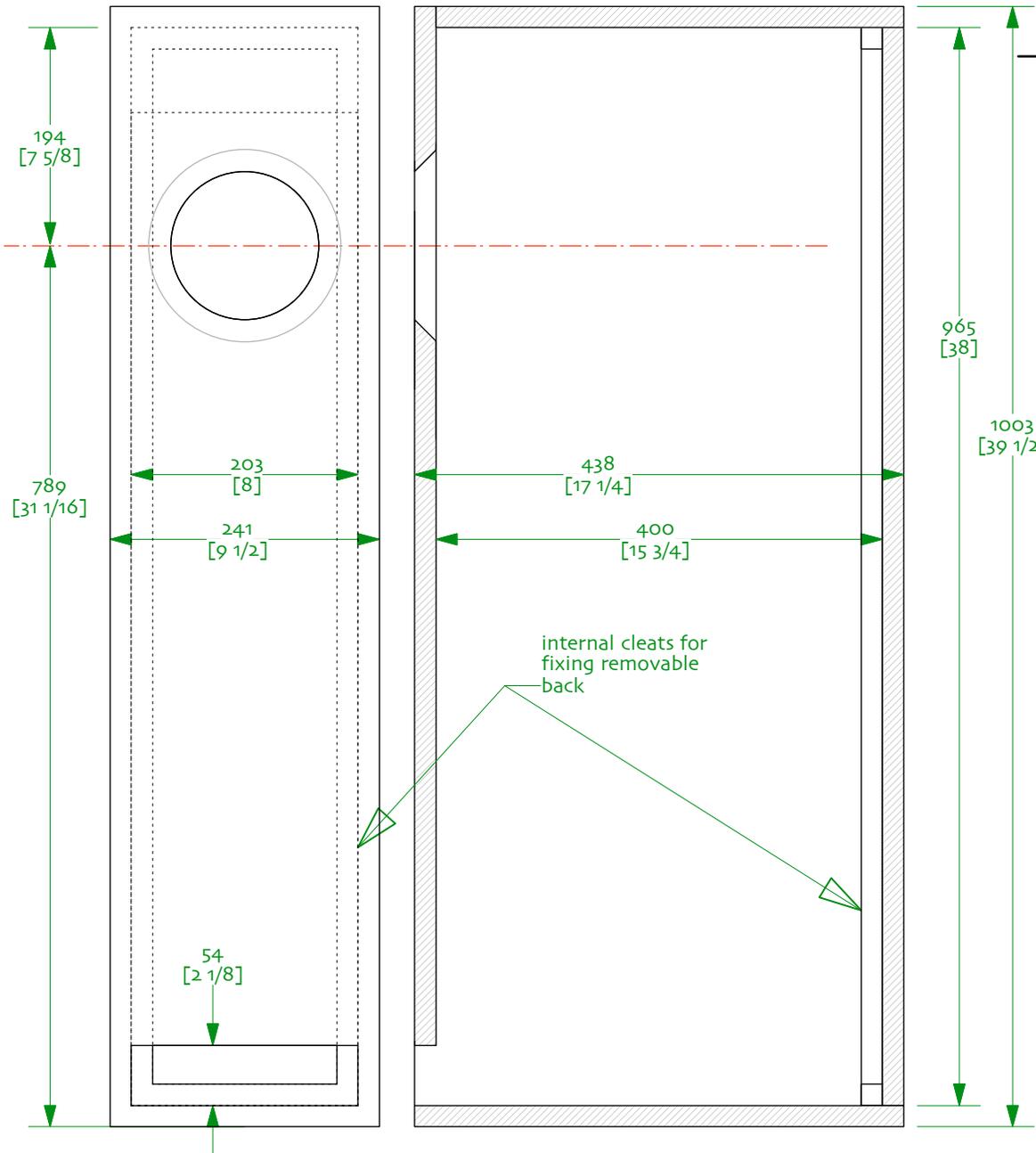




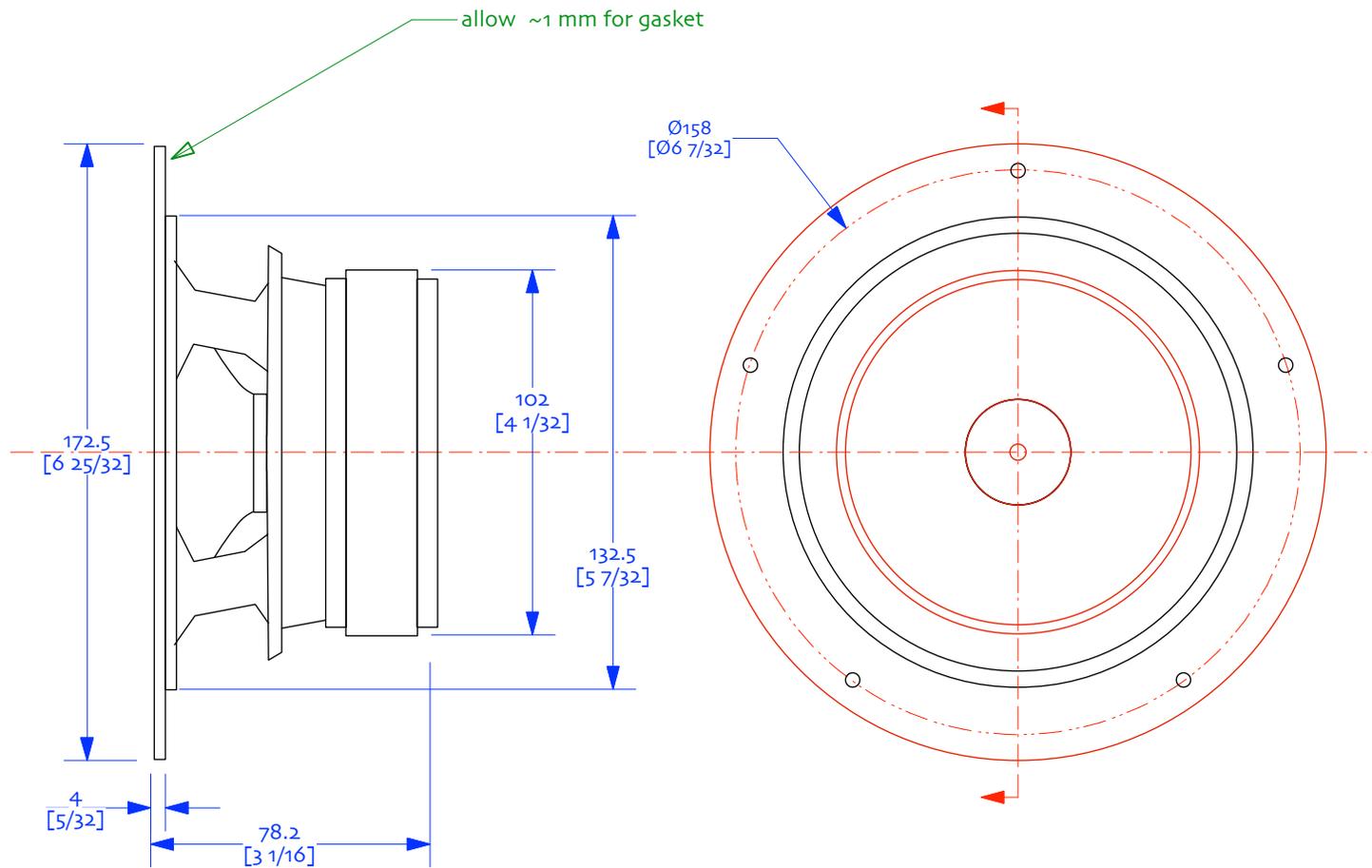
Pensil CHN-110

designed by S Lindgren drawn by dld
14-november-2019
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Notes:
0/ drawing uses 3/4" (19.05mm) material. 18-20mm OK. Quality multi-ply recommended
1/ stuff with 1 lbs / ft³ (44 ounces = 1.256 kg) of polyfill
2/cleats on back to allow for removable back, useful for adjusting the stuffing
3/ bracing is optional but recommended. For bracing ideas please see the bracing sheet in the superPensil12 plans



CHN 110

driver dimensions
drawn by dld | 14-december-2019