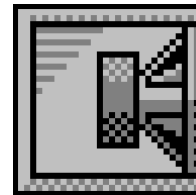


Custom Vented Box Design

By Mircea Bartic, nexo sa



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Pyramid, truncated

--Box Parameters--

Vb = 12.07 liters

Fb = 72.31 Hz

QL = 6.977

F3 = 108.1 Hz

Fill = minimal

--Vents--

No. of Vents = 1

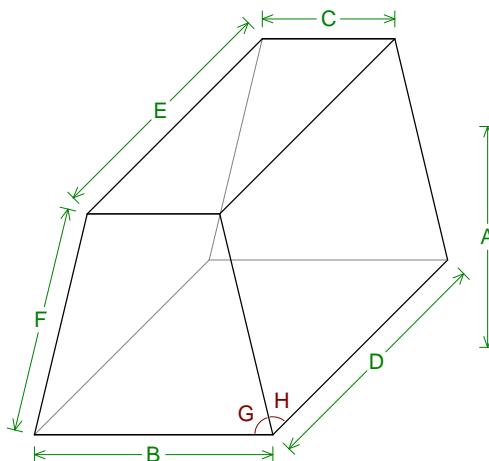
Vent shape = rectangle

Vent ends = one flush

Hv = 150 mm

Wv = 20 mm

Lv = 120 mm



--External Dimensions--

A = 250 mm

B = 270 mm

C = 150 mm

D = 400 mm

E = 400 mm

F = 251.5 mm

--Internal Dimensions--

A = 214 mm

B = 224.3 mm

C = 121.6 mm

D = 334 mm

E = 334 mm

F = 215.3 mm

--Wall Thickness--

Front = 48 mm

Side = 18 mm

--Corner Angles--

G = 76.2°

H = 90°

Driver Properties

--Description--

Name:

Type: Standard one-way driver

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 69 Hz

Qms = 10.68

Vas = 32 liters

Xmax = 2.35 mm

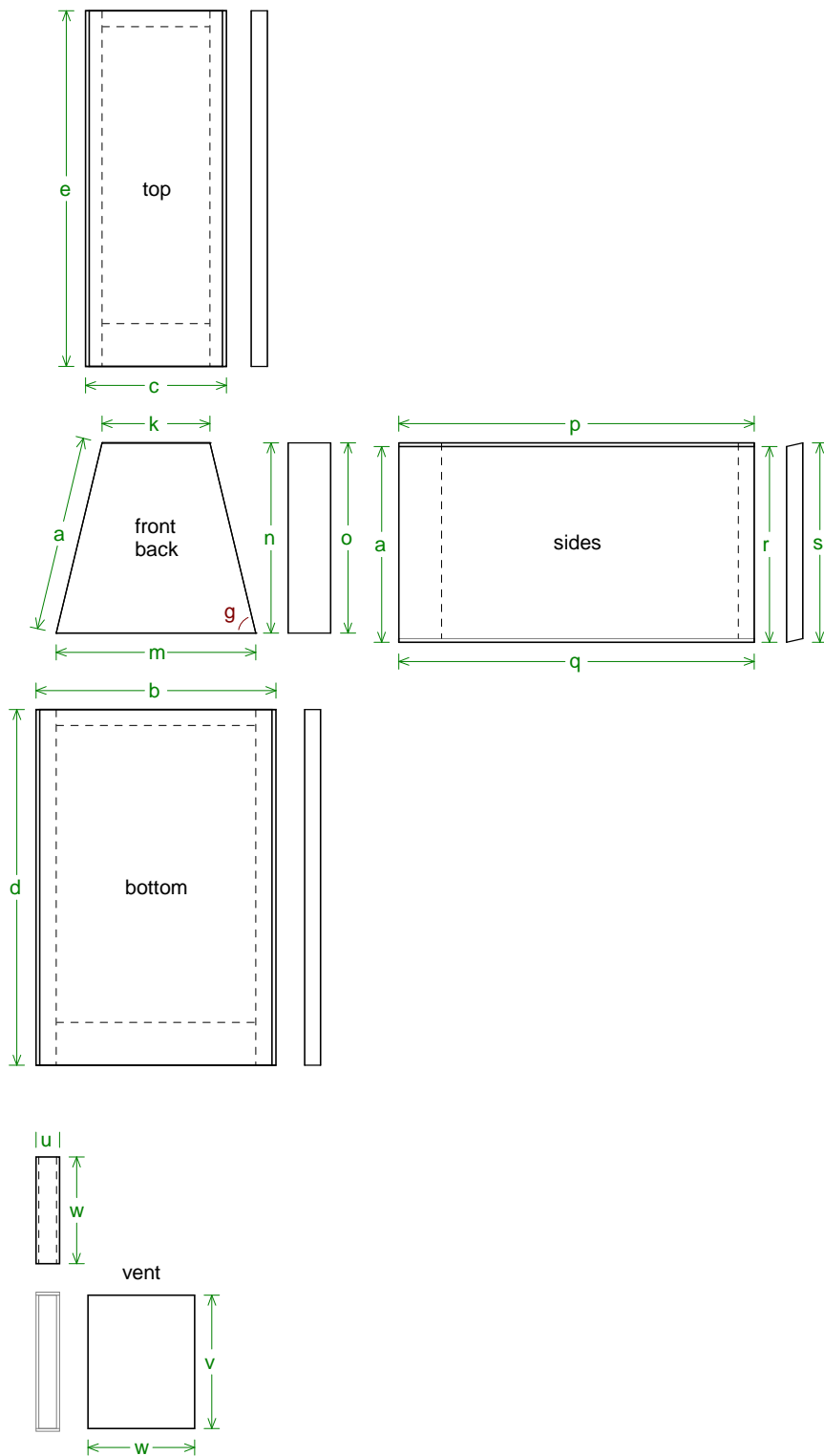
Sd = 250 sq.cm

Qes = 0.71

Re = 6.1 ohms

Z = 8 ohms

Pe = 125 watts



Box Parts

--Truncated Pyramid Box Parts--

- 1 Top: height (e) = 400 mm
width (c) = 158.6 mm
thickness = 18 mm
front/back cut angle = 0°
left/right edge cut angle = 13.5°
- 1 Front: side length (a) = 215.3 mm
top width (k) = 121.6 mm
bottom width (m) = 224.3 mm
surface height (n) = 214 mm
total height (o) = 214 mm
thickness = 48 mm
corner angle (g) = 76.2°
top/bottom cut angle = $\pm 0^\circ$
- 1 Back: side length (a) = 215.3 mm
top width (k) = 121.6 mm
bottom width (m) = 224.3 mm
surface height (n) = 214 mm
total height (o) = 214 mm
thickness = 18 mm
corner angle (g) = 76.2°
top/bottom cut angle = $\pm 0^\circ$
- 2 Sides: side length (a) = 215.3 mm
top width (p) = 400 mm
bottom width (q) = 400 mm
surface height (r) = 220.1 mm
total height (s) = 224.4 mm
thickness = 18 mm
corner angle (h) = 90°
top/bottom cut angle = $\pm 13.5^\circ$
- 1 Bottom: height (d) = 400 mm
width (b) = 270 mm
thickness = 18 mm
front/back cut angle = 0°
left/right cut angle = 13.5°

--Vent Parts--

- 1 Top, 1 Bottom:
width (u) = 26.35, length (w) = 120 mm
thickness = 3.175 mm
- 2 Sides:
height (v) = 150, length (w) = 120 mm
thickness = 3.175 mm

--Driver Mounting-- Mounting:



Wiring Diagram

