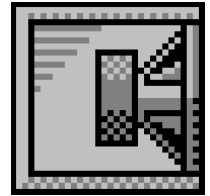


# Custom Vented Box Design

By karsten, cad



## Box Properties

### --Description--

Name: 1x18 sub comparison

Type: Vented Box

Shape: Prism, square

### --Box Parameters--

Vb = 166,7 liters

V(total) = 173,8 liters

Fb = 26,7 Hz

F3 = 37,08 Hz

Fill = minimal

### --Vents--

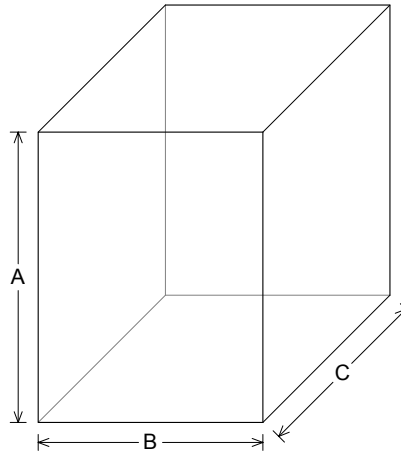
No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 100, mm

Lv = 106,6 mm



### --External Dimensions--

A = 706, mm

B = 546, mm

C = 583, mm

### --Internal Dimensions--

A = 670, mm

B = 510, mm

C = 510, mm

### --Wall Thickness--

Front = 55, mm

Side = 18, mm

## Driver Properties

### --Description--

Name: 6174 (8 ohm)

Type: Standard one-way driver

Company: McCauley Sound Inc.

Frame: Cast frame.

Voice Coil: 100 mm copper clad aluminum voice coil.

### --Configuration--

**No. of Drivers = 1**

### --Driver Parameters--

Fs = 20, Hz

Qms = 2,9

Vas = 733,4 liters

Xmax = 15,24 mm

Sd = 1284 sq.cm

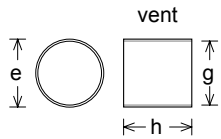
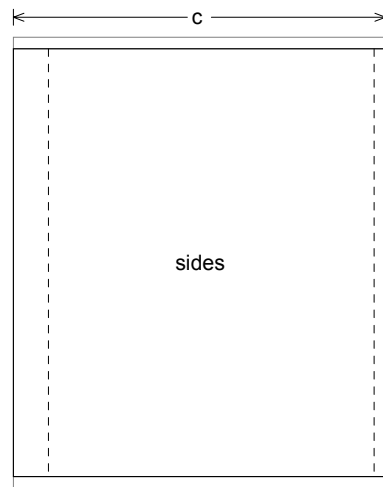
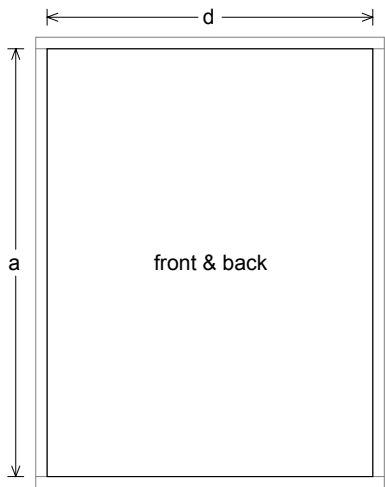
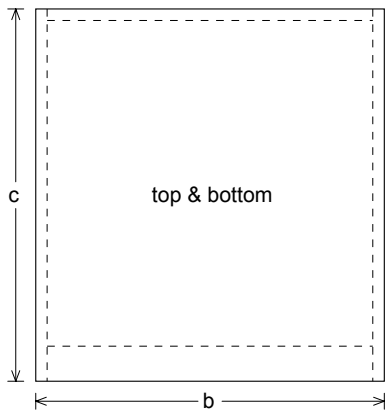
Qes = 0,38

Re = 5,6 ohms

Le = 1,1 mH

Z = 8, ohms

Pe = 800, watts



**Box Parts**

Box Shape: Square Prism

1 Top, 1 Bottom: depth (c) = 583, mm  
width (b) = 546,, thickness = 18, mm

1 Front: height (a) = 670, mm  
width (d) = 510,, thickness = 55, mm

1 Back: height (a) = 670, mm  
width (d) = 510,, thickness = 18, mm

2 Sides: height (a) = 670, mm  
depth (c) = 583,, thickness = 18, mm

--Driver Mounting--  
Mounting: Flush

--Vent Parts--

1 Duct: outside diameter (e) = 106,4 mm  
inside diameter (g) = 100, mm  
length (h) = 106,6 mm

