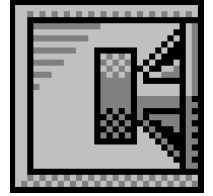


# Custom Vented Box Design

By karsten, cad



## Box Properties

### --Description--

Name: 1x18 sub comparison

Type: Vented Box

Shape: Prism, square

### --Box Parameters--

Vb = 166,7 liters

V(total) = 168,4 liters

Fb = 37,6 Hz

F3 = 45,81 Hz

Fill = minimal

### --Vents--

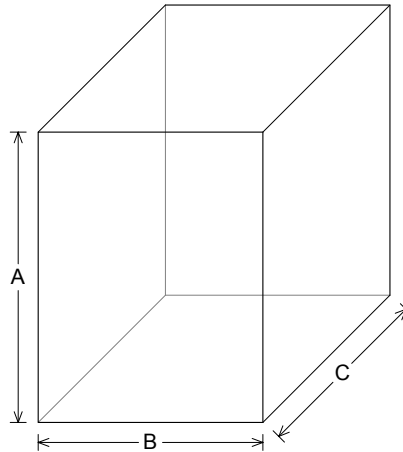
No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 100, mm

Lv = 4,183 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: 2241H

Type: Standard one-way driver

Company: JBL Professional Division

Piston: Ribbed paper cone.

Suspension: Cloth surround.

Frame: Die-cast frame.

Voice Coil: 100 mm edge-wound aluminum ribbon voice coil.

Magnet: SFG magnet with Vented Gap Cooling.

### --Configuration--

**No. of Drivers = 1**

### --Driver Parameters--

Fs = 35, Hz

Qms = 5,7

Vas = 311,5 liters

Xmax = 7,62 mm

Sd = 1241 sq.cm

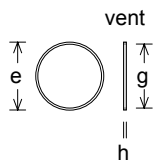
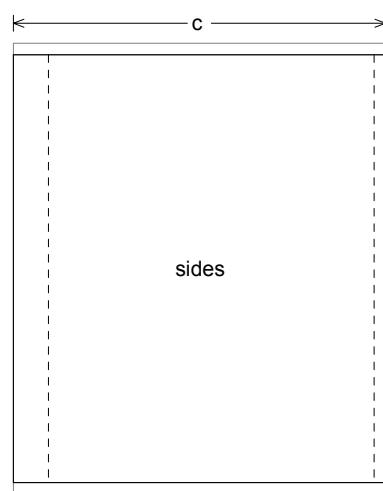
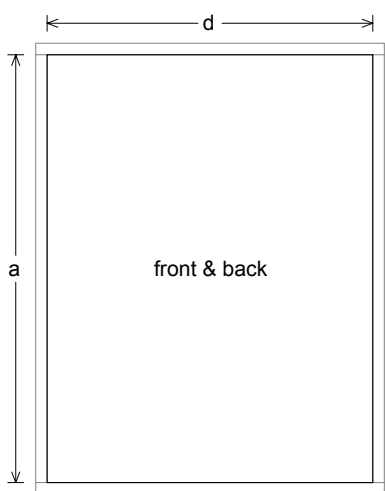
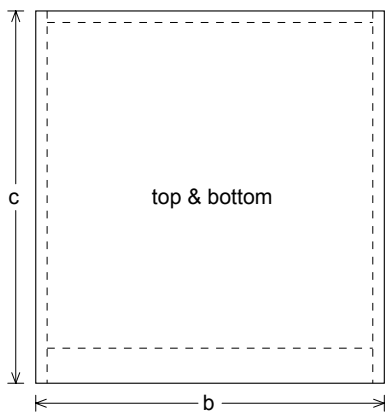
Qes = 0,43

Re = 5, ohms

Le = 1,75 mH

Z = 8, ohms

Pe = 600, 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) = 4,183 mm

