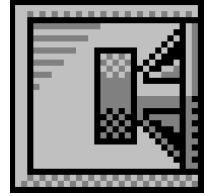


# Custom Vented Box Design

By karsten, cad



## Box Properties

### --Description--

Name: 1x15 sub comparison

Type: Vented Box

Shape: Prism, square

Finish: black warnex

Veneer: 15mm birch ply

### --Box Parameters--

Vb = 102,5 liters

V(total) = 114,9 liters

Fb = 42, Hz

F3 = 42,33 Hz

Fill = minimal

### --Vents--

No. of Vents = 1

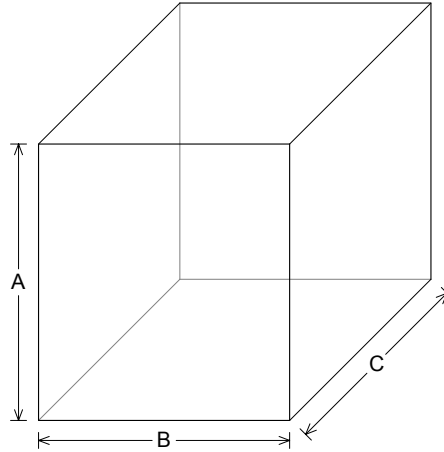
Vent shape = rectangle

Vent ends = one flush

Hv = 60, mm

Wv = 425, mm

Lv = 330,1 mm



### --External Dimensions--

A = 550, mm

B = 500, mm

C = 530, mm

### --Internal Dimensions--

A = 520, mm

B = 470, mm

C = 470, mm

### --Wall Thickness--

Front = 45, mm

Side = 15, mm

## Driver Properties

### --Description--

Name: 15 NW 100

Type: Standard one-way driver

Company: B&C Speakers

Suspension: Double silicone spider.

Voice Coil: 100 mm (4 inch) copper coil. Fiberglass former.

Magnet: Neodymium magnet.

### --Configuration--

**No. of Drivers = 1**

### --Driver Parameters--

Fs = 33, Hz

Qms = 4,3

Vas = 139, liters

Xmax = 9, mm

Sd = 855, sq.cm

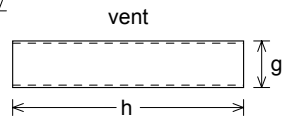
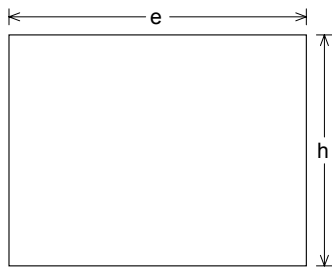
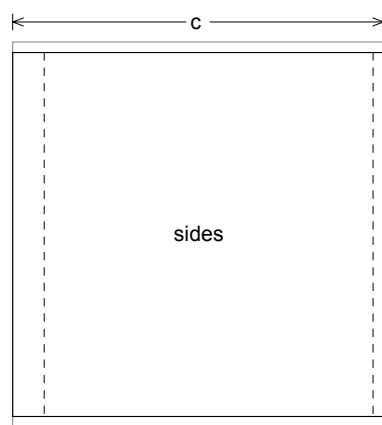
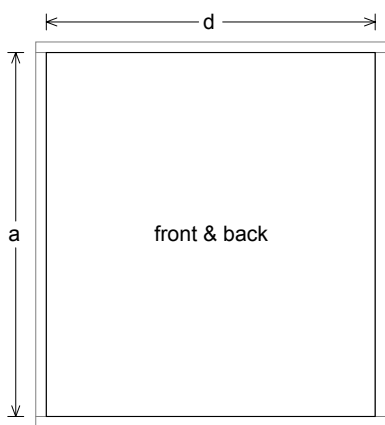
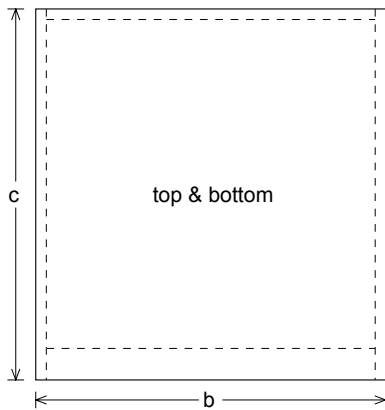
Qes = 0,23

Re = 5,1 ohms

Le = 1,9 mH

Z = 8, ohms

Pe = 800, watts



**Box Parts**

Box Shape: Square Prism

1 Top, 1 Bottom: depth (c) = 530, mm  
width (b) = 500,, thickness = 15, mm

1 Front: height (a) = 520, mm

width (d) = 470,, thickness = 45, mm

1 Back: height (a) = 520, mm

width (d) = 470,, thickness = 15, mm

2 Sides: height (a) = 520, mm

depth (c) = 530,, thickness = 15, mm

--Driver Mounting--

Mounting: Flush

--Vent Parts--

1 Top, 1 Bottom:

width (e) = 425,, length (h) = 330,1 mm

thickness = 3,175 mm

2 Sides:

height (g) = 66,35, length (h) = 330,1 mm

thickness = 3,175 mm

