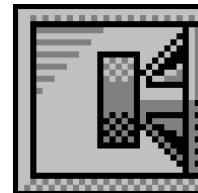


# Custom Vented Box Design

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 = 106,2 liters

V(total) = 114,9 liters

Fb = 40, Hz

F3 = 40,35 Hz

Fill = minimal

### --Vents--

No. of Vents = 1

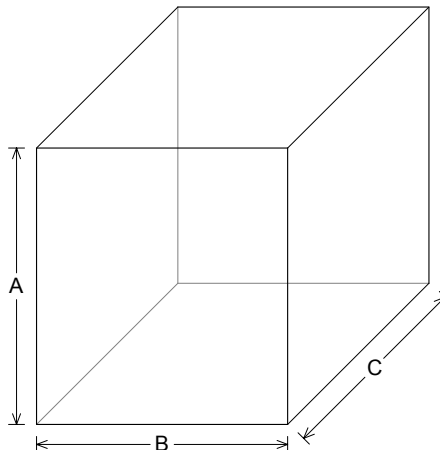
Vent shape = rectangle

Vent ends = one flush

Hv = 50, mm

Wv = 425, mm

Lv = 294,4 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: PD 157

Type: Standard one-way driver

Company: Precision Devices Ltd.

Piston: Curvilinear ribbed paper

Suspension: Rubber, dual suspension (spider) system

Dust Cap: Paper

Voice Coil: Copper, diameter- 115 mm

Terminals: Spring loaded push button

Magnet: Ceramic, 3.25 Kg

### --Configuration--

**No. of Drivers = 1**

### --Driver Parameters--

Fs = 33,7 Hz

Qms = 7,53

Vas = 150, liters

Xmax = 10, mm

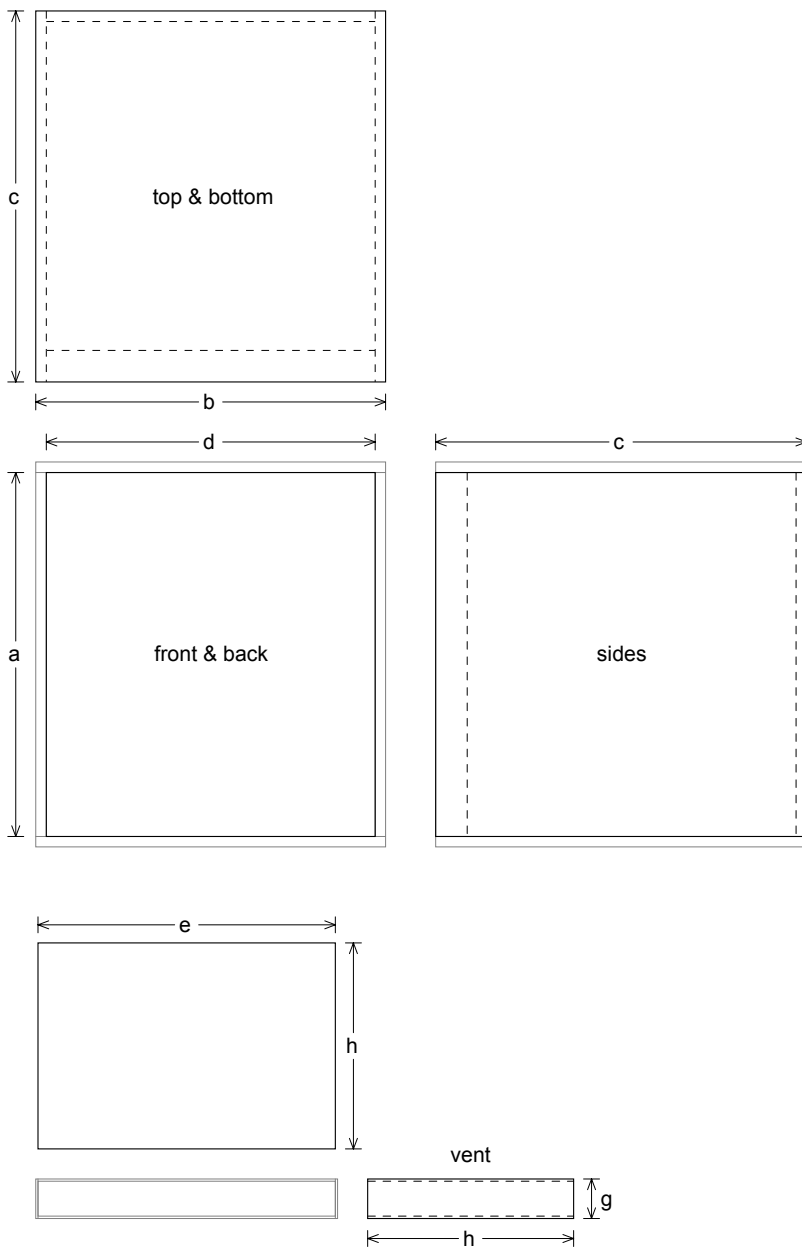
Sd = 800, sq.cm

Qes = 0,312

Re = 5,6 ohms

Z = 8, ohms

Pe = 600, 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 ( $h$ ) = 294,4 mm  
thickness = 3,175 mm

2 Sides:  
height ( $g$ ) = 56,35, length ( $h$ ) = 294,4 mm  
thickness = 3,175 mm

