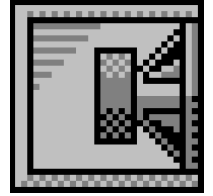


Custom Vented Box Design

By karsten, cad



Box Properties

--Description--

Name: 1x18 comparison

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 161,7 liters

V(total) = 174,3 liters

Fb = 35, Hz

F3 = 44,29 Hz

Fill = minimal

--Vents--

No. of Vents = 1

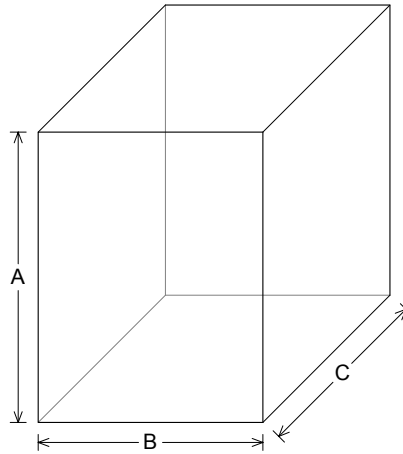
Vent shape = rectangle

Vent ends = one flush

Hv = 140, mm

Wv = 430, mm

Lv = 740,5 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: 18-1655

Type: Standard one-way driver

Company: Eminence Speaker Corp.

Piston: Paper

Suspension: Treated cloth accordion surround

Dust Cap: Paper

Frame: Die cast aluminum

Voice Coil: 4 in, diameter

Terminals: Gold plated spring

Magnet: Vented pole piece, 109 oz

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 24, Hz

Qms = 9,63

Vas = 625,8 liters

Xmax = 5,512 mm

Sd = 1140 sq.cm

Qes = 0,288

Re = 6,2 ohms

Le = 2, mH

Z = 8, ohms



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 Top, 1 Bottom:
width (e) = 430,, length (h) = 740,5 mm
thickness = 3,175 mm

2 Sides:
height (g) = 146,4, length (h) = 740,5 mm
thickness = 3,175 mm

