## Custom Vented Box Design

By John, Microsoft

## Box Properties

--Description--
Name:
Type: Vented Box
Shape: Prism, square
--Box Parameters--
$\mathrm{Vb}=\quad 1.354 \mathrm{cu} . \mathrm{ft}$
V (total) $=1.976 \mathrm{cu}$.ft
$\mathrm{Fb}=\quad \quad 33.07 \mathrm{~Hz}$
F3 $=\quad 91.94 \mathrm{~Hz}$
Fill $=\quad$ none
--Vents--
No. of Vents = 1
Vent shape $=$ rectangle
Vent ends = one flush

| $\mathrm{Hv}=$ | 10.5 in |
| :--- | :--- |
| $\mathrm{Wv}=$ | 1.875 in |
| $\mathrm{Lv}=$ | 35.5 in |

$L v=\quad 35.5$ in

Driver Properties

Front baffle will be doubled up 3/4 11-ply birch plywood. Do not use MDF as it is heavy and not as rigid as 11ply plywood!
--External Dimensions--
$\mathrm{A}=12 \mathrm{in}$
$B=27$ in
$C=15$ in
--Internal Dimensions--
$A=10.5$ in
$B=25.5$ in
$C=12.75$ in
--Wall Thickness--
Front $=1.5$ in
Side $=0.75$ in


Wiring Diagram



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 2000 watts






Please note this is the highest I have ever seen group delay in a model and I'm not sure why other than it must be the power level?

