

Audiobahn Box Specifications

All ports listed are circle ports unless otherwise stated. Surface area of a circle port = (3.14) X (radius) (squared)

Remember to build your box to the total volume, not just air space, as total volume includes all displacement.

Model #		ALUM10N	ALUM12N	ALUM15N
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Space Saver Bass Design

Ported				
Air Space (Cu. Ft.)		0.6	1.3	1.6
Port Size (Inches)		2 x 6.75	3 x 7.25	4 x 10
Port Vel. (%)		38.34	27.49	28.02
-3dB (Hz)		35	35	37
Tune Freq. (Hz)		40	39	40
Sub Disp. (Cu. Ft.)		0.15	0.18	0.25
Port Disp.(Cu. Ft.)		0.011	0.026	0.06
Total Vol. (Cu. Ft.)		0.75	1.5	2

Everyday Bass Performer

Ported				
Air Space (Cu. Ft.)		1.35	2.3	2.65
Port Size (Inches)		3 x 7.5	4 x 7.75	(2) 3 x 7.25
Port Vel. (%)		18.72	15.53	23.25
-3dB (Hz)		31.5	31	32
Tune Freq. (Hz)		38	37	37
Sub Disp. (Cu. Ft.)		0.15	0.18	0.25
Port Disp.(Cu. Ft.)		0.027	0.051	0.053
Total Vol. (Cu. Ft.)		1.5	2.5	3

Ultimate SPL Bass Box (Not Designed for Competition)

Ported				
Air Space (Cu. Ft.)		2.35	3.25	3.5
Port Size (Inches)		4 x 7.25	(2) 4 x 11.25	(2) 4 x 10.5
Port Vel. (%)		11.14	8.06	13.11
-3dB (Hz)		30	30	30
Tune Freq. (Hz)		38	37	36
Sub Disp. (Cu. Ft.)		0.15	0.18	0.25
Port Disp.(Cu. Ft.)		0.045	0.152	0.14
Total Vol. (Cu. Ft.)		2.5	3.5	4

A port velocity of 20% or under is good for everyday use and 5% or under for SPL competition . Port velocity translates to port noise, so the lower the number, the less port noise you will incur.

An EBP of less then 45 is SUGGESTED for only a sealed box and greater then 65 for a ported box.

EBP		56	47	39
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The larger a sealed box is, the lower the sub will play, but the less power it will handle. The smaller a sealed box is, the higher the frequency the sub will play, and the more power it will handle.

Model #		ALUM10N	ALUM12N	ALUM15N
Sealed				
Minimum (Cu. Ft.)		0.5	0.5	1.5
Maximum (Cu. Ft.)		1.25	2	3
SPL (dB)		82.5	85.2	86.8

All sealed boxes already include the displacement for the subwoofer. NR = (Not Recommended)