SS Series High Power Subwoofers

SS8

8" (200mm) Single 4 Ω Voice Coil

SOUND STORM®
LABORATORIES

SS Series High Power Subwoofers

User Manual

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Product Specifications

Speaker Impedance	table	4ohms
Free Air Resonance	(Fs)	46
Total Q Driver @ FS including all resistance's	(Qts)	0.57
Q of the Driver @ FS including non electrical resistance only	(Qms)	7.77
Q of the Driver @ FS including electrical resistance only	(Qes)	0.61
The Driver's compliance expressed as an equivalent	(Vas)	0.71
Volume of all (cubic Ft.)		
The Driver's linear displacement (inches)	(Xmax)	0.157
The DC resistance of the driver's (ohms)	(Re)	3.2
Thermal Power rating of Driver (Peak)	(Pe)	400W
The Driver's sensitivity (dB)	(Sens)	86

Calculating Enclosures

It is difficult to give exact box dimensions that are universal for all cars and trucks. It is for this reason that you must be able to calculate the space in which you have available in order to achieve the proper air volume required.

It is recommended to build your enclosure from 3/4" thick MDF (medium density fiberboard). Make sure the enclosure is sealed air tight.

Calculating External Volume

1) To calculate box volume, measure the outside Width x Height x Depth of the enclosure. Example 12" x 14" x 9" = 1512"

2) Next you must convert cubic inches into cubic feet. To do this, You must divide the cubic inch total by 1728". Example 1512 ÷ 1728= .875 Cubic feet

Calculating Internal Volume

1) To calculate the internal (net) volume of the above box you must first multiply the thickness of the wood you are using by Two (2) Example; 3/4" x 2"=1.5"

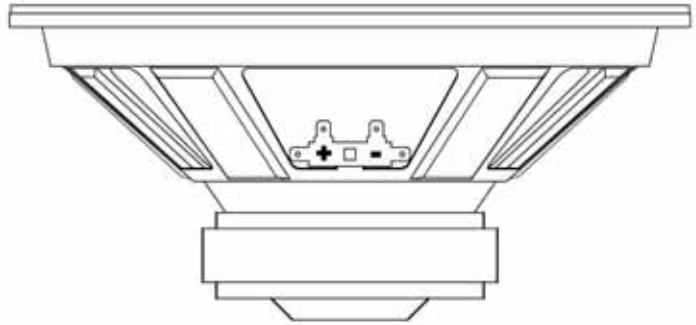
2) Next Subtract 1.5 from each of the outside measurements of the box. Width 12-1.5=10.5 Height 14-1.5=12.5 Depth 9-1.5=7.5

3) Multiply the new totals (H x W x D) Example : 10.5 x 12.5 x 7.5=984.375

4) Next you must convert cubic inches into cubic feet.To do this,you must divide the cubic inch total by 1728" Example 984.375÷1728=. 5696 Cubic feet

Wiring

Please take every precaution to wire your woofers for the correct impedance



4 ohms

8”(200mm) Subwoofer

(Sealed Enclosure)

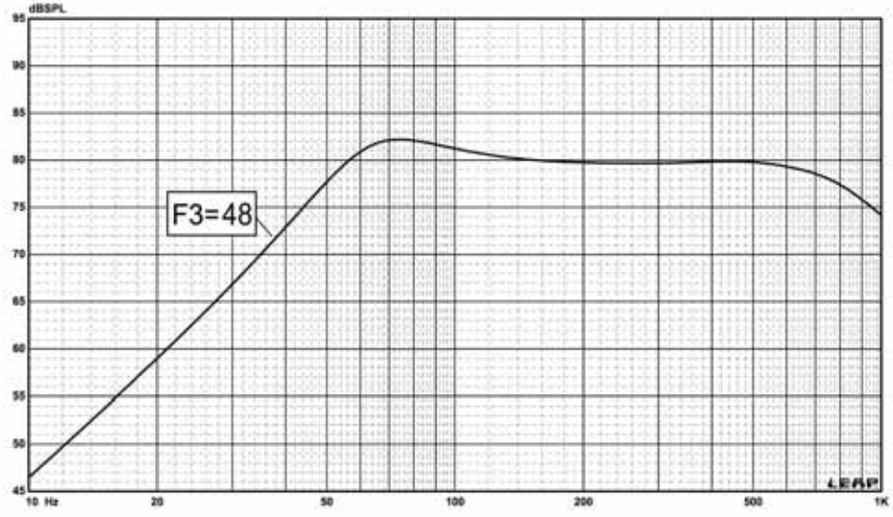
- 8”(200mm) BLACK POLY INJECTION CONE FOAM SURROUND
- SINGLE 1.2”(30mm)HIGH TEMPERATURE ALUMINIUM VOICE COIL
- 400 WATTS PEAK
- SENSITIVITY: 86dB (1 WATT/1 METER)
- IMPEDANCE: SINGLE 4 OHMS
- MOUNTING DEPTH: 3-1/3” (85mm)
- MOUNTING DIAMETER: 7-1/4” (184mm)

Recommended Enclosures

Please note : Our recommended box volumes are given for internal air requirements.

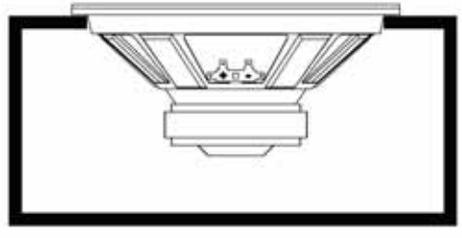
SS8 Amplitude Response(dB/Hz)

Sealed Enclosure



Frequency

SEALED ENCLOSURE RECOMMENDED

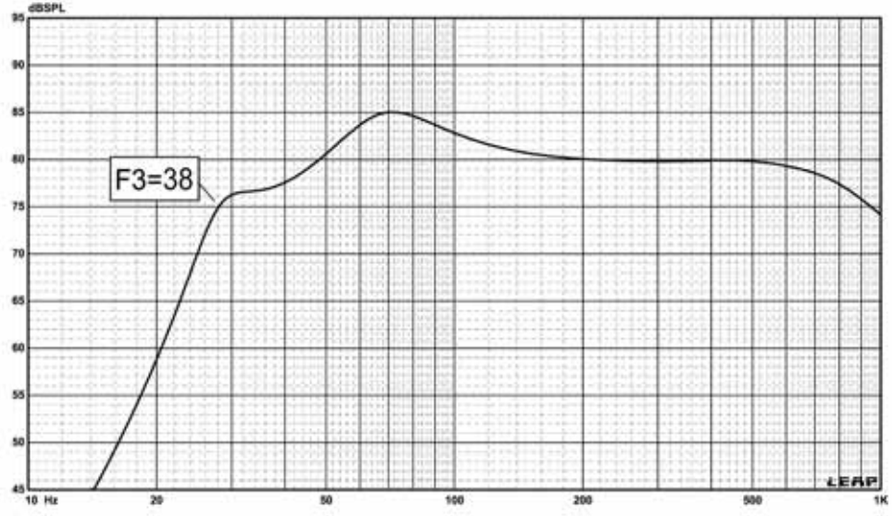


Box Volume :
0.805 to FREE AIR

Box is given as internal air volume including driver displacement

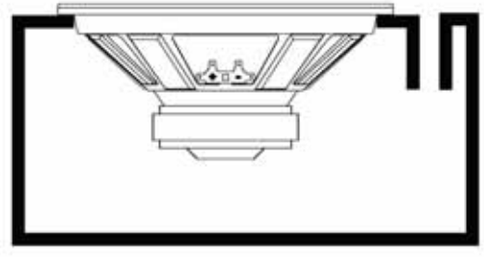
SS8 Amplitude Response(dB/Hz)

Ported Enclosure



Frequency

Ported Enclosure



Box Volume : 0.805 CuFt

Box is given as internal air volume including driver displacement

Port Frequency	**:**	**38**	**Hz**
Port Diameter	**:**	**3.15**	**Inches**
Port Length	**:**	**11.8**	**Inches**