

SLIM-10D4

Congratulations on choosing a SUONO subwoofer. For best results, we recommend using one of the acoustic enclosures described below. You can build your enclosure exactly as described or simply use the net volumes and ports specified, adapting them to your available external dimensions and/or shapes. The **Sealed Box**, being the smallest in size, is usually the first choice for this type of subwoofer when the goal is to use the least amount of space without sacrificing excellent low-frequency performance. However, if more space is available, the **Ported Box** is capable of delivering outstanding performance.

Characteristics

Slim 10" subwoofer with dual 4-ohm voice coils, heavy-duty die-cast aluminum basket, woven fiberglass sandwich cone, butyl rubber surround, 2.5" high-temperature 4-layer Kapton voice coil, dual poly-cotton spider, and a 60-ounce strontium magnet.

Building an Acoustic Enclosure

As construction material, we suggest MDF or high-density chipboard at least 3/4 inches thick. Cuts should be made with a table-mounted circular saw or better. It is also convenient to include internal reinforcements to give the box greater solidity. Acoustic enclosures should also always include some fiberglass or dacron inside as an acoustic absorber, taking care that it does not come into contact with the loudspeaker or port. All enclosures should be securely bolted to the car so they don't become a projectile during a collision.

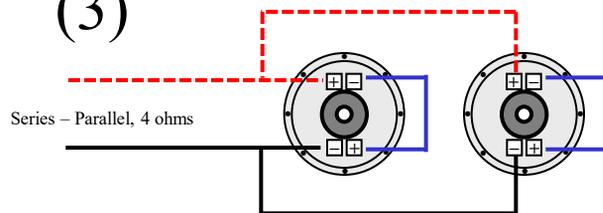
Voice Coil connection

Even though this woofer has two 4-ohm terminals, both terminals form a single winding. Therefore, both coils must ALWAYS be connected. If they are connected in series, the impedance goes up to 8 ohms (1), and if they are connected in parallel, it goes down to 2 ohms (2). For two subwoofers, it is possible to make a series-parallel configuration to get a final impedance of 4 ohms (3), or you can connect all coils in parallel to go down to 1 ohm (4). **Note:** In any parallel connection, the length of each wire for each coil must be exactly the same.

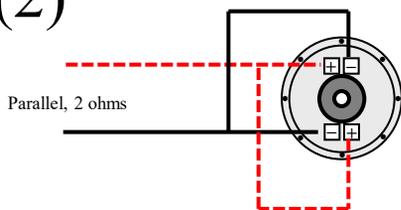
(1)



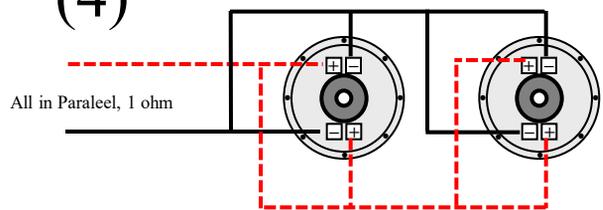
(3)



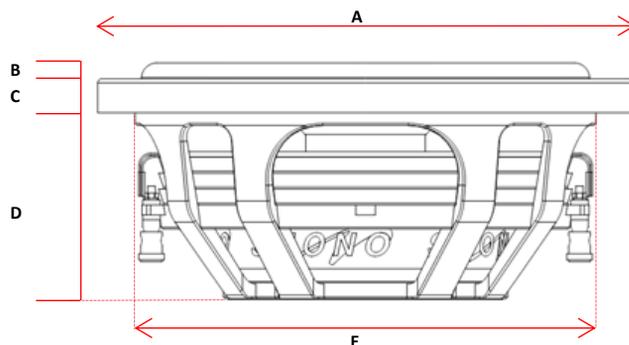
(2)



(4)



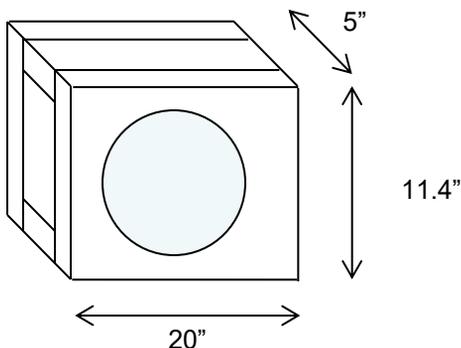
Thiele-Small Parameters:		Dimensions	
Fs:	28.5 Hertz	A	275 mm
Qes:	0.47	B	6 mm
Qms:	8.1	C	19 mm
Qts:	0.44	D	91
Vas:	0.93 ft ³	E	235 mm
Z nom:	4 + 4 ohms		
X max:	11.5 mm		
BL:	23 Tm		
P:	500 Watts RMS		
Re:	7.29 ohms		
Sensibilidad	83 dB SPL @ 1W/1m		
Desplazamiento	0.07 ft ³		



RECOMMENDED SPEAKER BOXES. The designs below, the thickness of the wood is 3/4". Always use some type of internal reinforcement. Add some fiberglass or Dacron inside. The reinforcement can be the dividing wood of the double boxes, or the one indicated in the individual ones.

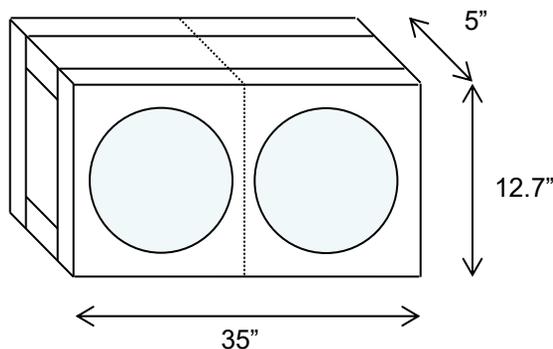
Single Woofer, Sealed Box. Net Internal Volume: 0.3 ft³
F3 = 48 Hertz, Qtc = 0.9

To cut: 2 pieces 20" x 11.4"
 2 pieces 20" x 3.5"
 2 pieces 9.9" x 3.5"
 1 piece 3" x 3.5" as reinforcement



Two Woofers, Sealed Box. Net Internal Volume: 0.6 ft³ total

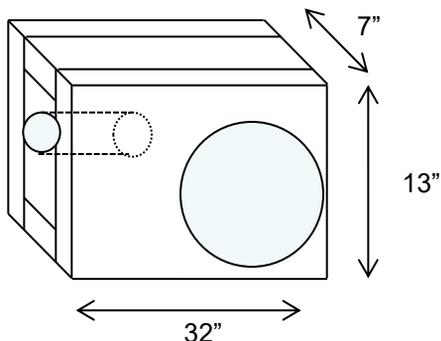
To cut: 2 pieces 35" x 12.7"
 2 pieces 35" x 3.5"
 3 pieces 11.2" x 3.5" (one is the division)



Single Woofer, Ported Box. Net Int. Volume: 1 ft³, **F3: 29 Hz, Fb 36 Hz**

To cut: 2 pieces 32" x 13"
 2 pieces 32" x 5.5"
 2 pieces 11.5" x 5.5"
 1 piece 4" x 5.5" as reinforcement

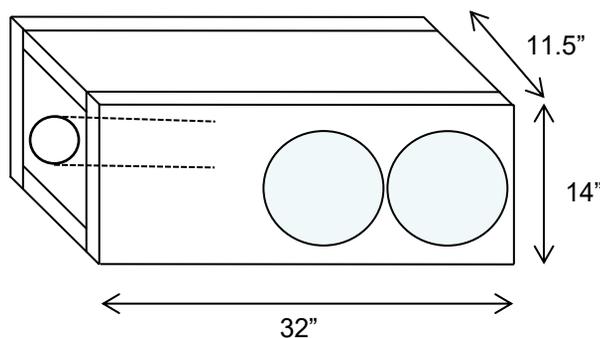
Tuned with a single **3" diameter port, 12" long**



Two Woofers, Ported Box. Net Internal Total Volume: 2 ft³

To cut: 2 pieces 32" x 14"
 2 pieces 32" x 10"
 2 pieces 12.5" x 10"
 1 or 2 pieces 4" x 10" as reinforcements

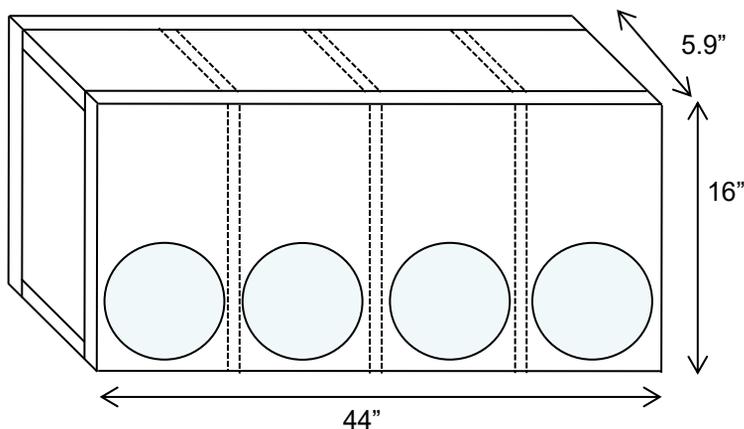
Tuned with a single **4" diameter port, 10" long.**



Sealed Box, 4 Woofers, 4 chambers.

Net Internal Volume: 1.2 ft³ total. **F3: 48 Hz, Qtc: 0.9**

To cut: 2 pieces 44" x 16"
 2 pieces 44" x 4.4"
 3 pieces 14.5 x 4.4" (one is the division).



WARRANTY:

SUONO products are guaranteed for one year for the original retail purchaser against defects in material and workmanship. Products found to be defective will be repaired or replaced (at SUONO's discretion) at no charge. Damage caused by misuse, abuse, product modification, accidents, improper installation, water, and unauthorized repair attempts is not covered. Cosmetic or finish damages are not covered. Products not purchased in the United States from an authorized dealer are not covered. Incidental or subsequent damages to other products are not covered. Any costs or expenses for removing and/or reinstalling the product are not covered. SUONO's total liability will not exceed the purchase price of the product. Some states do not allow limitations on implied warranties, so this may not apply to you. You are responsible for the shipment of your product to SUONO. Please contact SUONO first to get a Return Authorization Number.

SUONO CAR AUDIO LLC

7511 Coral Lake Dr., Cypress, Texas 77433. USA

Phone : (832) 853 71 85 juan.castillo@suonocaraudio.com www.suonocaraudio.com