

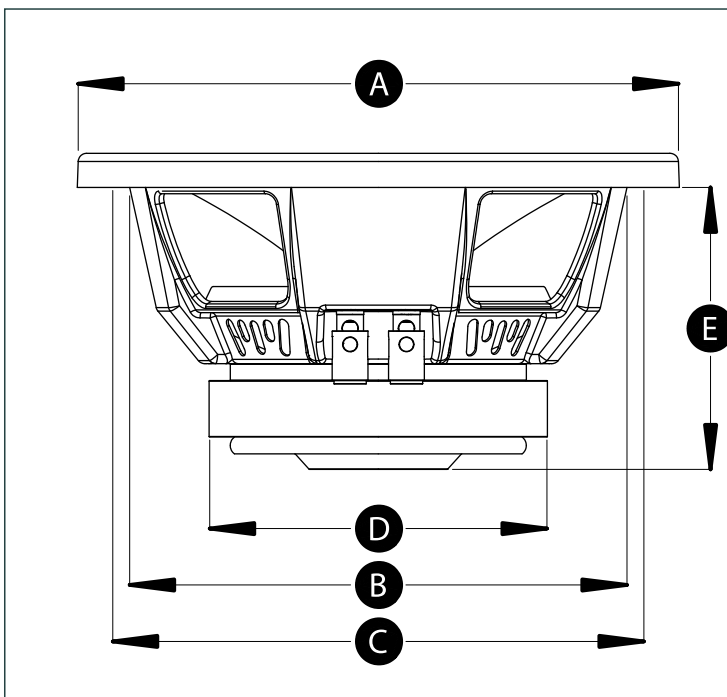
- 4-layers single voice coil
- Kapton® voice coil support
- High grade Y30 magnet
- Motor made of very low carbon steel
- Optimized motor design
- Long travel rubber surround
- Steel basket
- Internal stiffening ring
- Treated cellulose pulp cone
- Conex® spider
- CNC plates processing



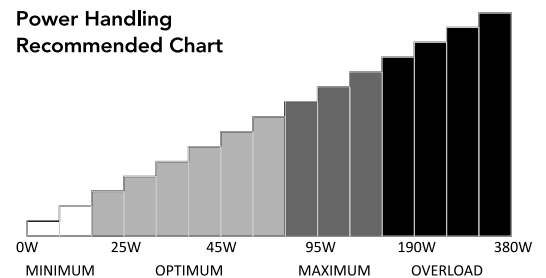
Your ESB subwoofer is a precision loudspeaker which has been designed to produce very high-quality sub-bass frequency performance in your car. For maximize the performance of your speaker we highly recommend to use a dedicated enclosure. Inside this manual you will find specifications and two recommended enclosures for your speaker: one is a sealed enclosure, the other is a ported design. Both types of enclosures will give you excellent sound quality and low-frequency extension. The sealed enclosure is a better choice if space is extremely tight, but the ported enclosure will produce 3dB more output at the same power if you have the extra space to work with.

**T&S parameters specification**

Free air resonance (Fs):	53.7 Hz
Electrical "Q" (Qes):	0.64
Mechanical "Q" (Qms):	5.51
Total speaker "Q" (Qts):	0.57
Equivalent Compliance (Vas):	0.443 ft <sup>3</sup> / 12.55 lit.
Linear Excursion (Xmax):	0.147" / 3.75 mm
Efficiency (1W/1m):	86.7 dB SPL
Effective piston area (Sd):	0.331 in <sup>3</sup> / 213,82 mm <sup>2</sup>
DC resistance (Re):	3.6 Ohm
Nominal impedance:	4 Ohm
Power handling (continuous):	190 W
Power handling (peak):	380 W



**Power Handling Recommended Chart**



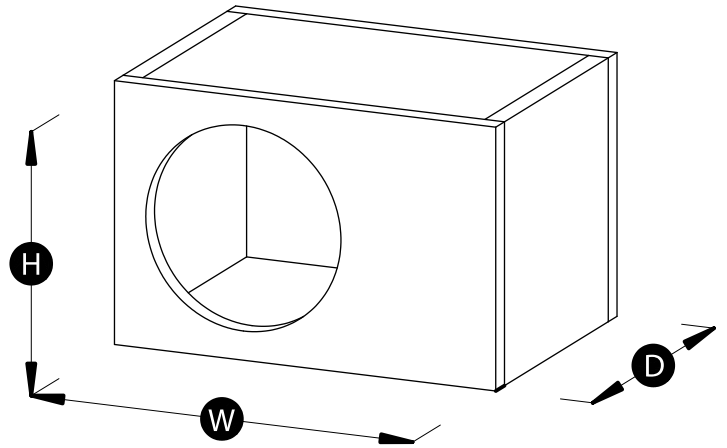
**Physical specification**

Nominal diameter:	8" / 200 mm
Overall diameter (A)	8.38" / 213 mm
Mounting hole diam. (B)	6.96" / 177 mm
Bolt hole circle (C)	7.73" / 196.5 mm
Magnet diameter (D)	4.72" / 120 mm
Mounting Depth (E)	3.93" / 100 mm
Driver displacement	0.028 ft <sup>3</sup> / 0.8 lit.

**Recommended Sealed Enclosure**

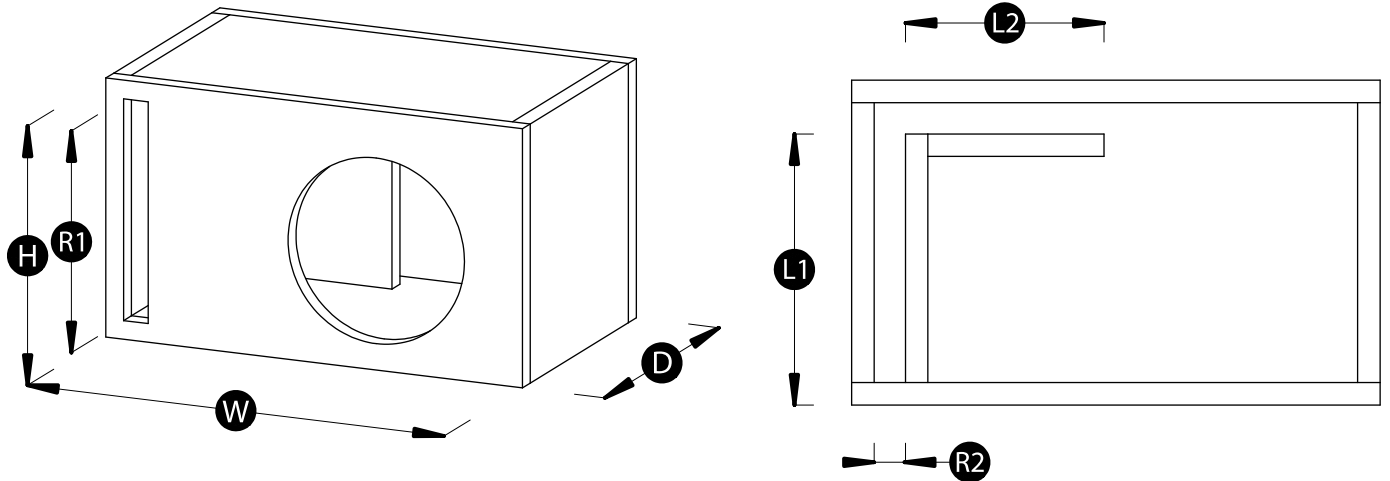
- Volume (include speaker displacement): 0.353 in<sup>3</sup> / 10 lit.
- External dimension (W,H,D): 11.8×9.9×9.5" / 300×250×240 mm

Note: Dimension are assume with 3/4" material (19mm). This is the suggested thickness. Less thickness may compromise box rigidity with leak bass response.



**Recommended Ported Enclosure (Reflex option A)**

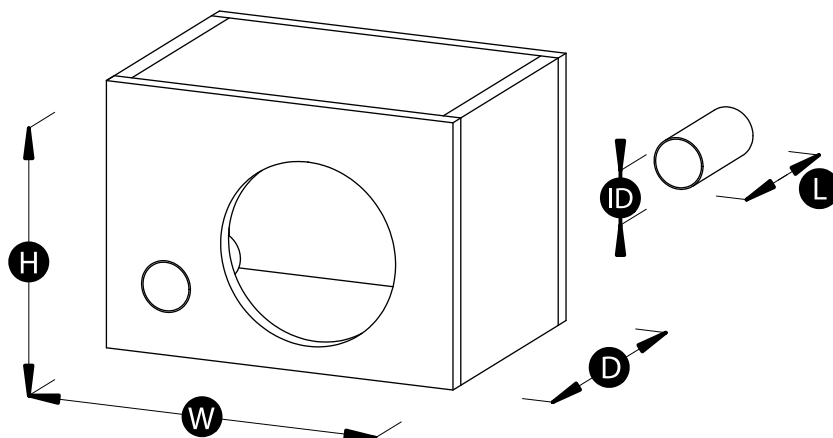
- Volume (include speaker displacement): 0.53 in<sup>3</sup> / 15 lit.
- External dimension (W,H,D): 16.65×10.23×10.23" / 423×260×260 mm
- Reflex port dimension (R1,R2): 8.81×1" / 224×25 mm • Reflex port length (L1,L2): 8.54+8.11" / 217+206 mm



Note: Dimension are assume with 3/4" material (19mm). This is the suggested thickness. Less thickness may compromise box rigidity with leak bass response.

**Recommended Ported Enclosure (Reflex option B)**

- Volume (include speaker displacement): 0.53 in<sup>3</sup> / 15 lit.
- External dimension (W,H,D): 14.96×10.23×10.23" / 380×260×260 mm
- Reflex tube internal diameter (ID): 1.85" / 47 mm • Reflex tube length (L): 4.57" / 116 mm



Note: Dimension are assume with 3/4" material (19mm). This is the suggested thickness. Less thickness may compromise box rigidity with leak bass response.