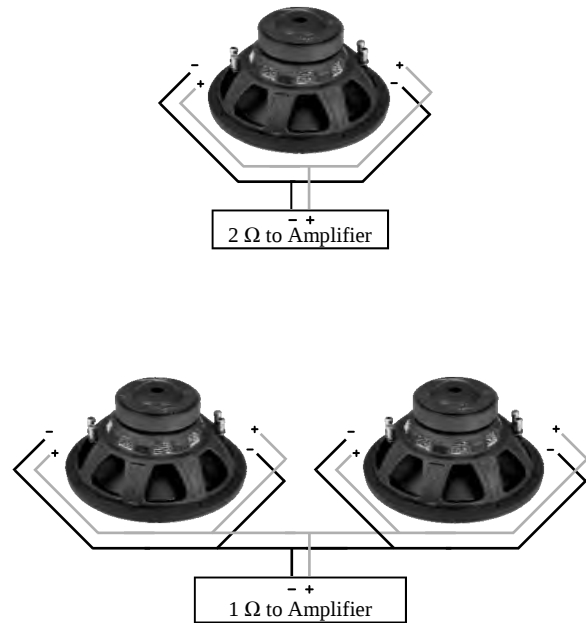
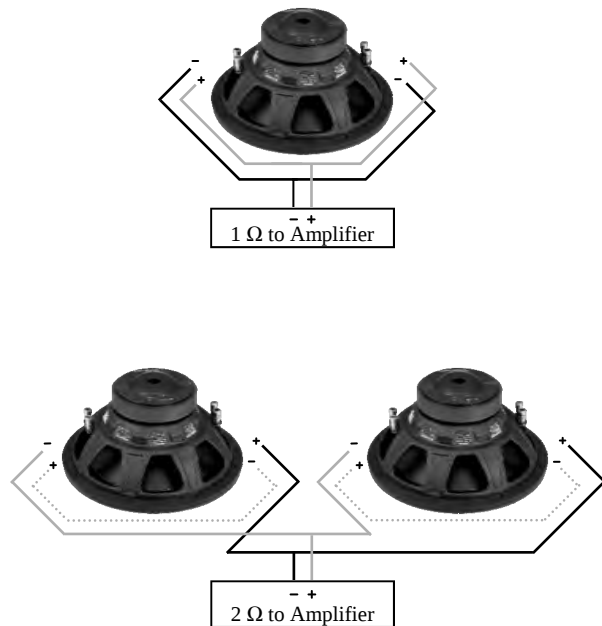




4 Ohm

2 Ohm



SOUNDSTREAM

Picasso

Specifications &  
Enclosure  
Recommendations



Every once in a while, you run across something that is fairly simple, yet it does its job perfectly. Performance does not have to be expensive or extravagant. The Picasso subwoofers are engineered to perform, without breaking the bank.

Congratulations on your new Soundstream sub-woofer purchase. We greatly appreciate your business. This may look like a run-of-the-mill cardboard box, but it's actually a protective barrier over one of the finest engineered and assembled sub-woofers available.

*Harmonic Indulgence... Listen and Feel*

## Features, Parameters, & Dimensions

Polypropylene Injection Cone  
NBR Rubber Surround  
8ga. Compression Wire Terminals  
2" 430° Voice Coil on Aluminum Former

Pressed Steel basket w/ Textured Finish  
Polyester-Cotton Composite Suspension  
Vented Back-plate & T-Yoke Extension  
Voice Coil Chamber Venting

| series wired             | P.102  | P.104  | P.122   | P.124   | P.152   | P.154   |
|--------------------------|--------|--------|---------|---------|---------|---------|
| Fs (Hz)                  | 29.9   | 31.61  | 30.08   | 30.67   | 27.79   | 27      |
| Qms                      | 3.19   | 2.89   | 2.71    | 2.87    | 2.64    | 2.83    |
| Vas (ft³)                | 1.641  | 1.425  | 2.654   | 2.801   | 4.58    | 4.536   |
| Cms (mm/N)               | 0.3    | 0.261  | 0.203   | 0.214   | 0.141   | 0.139   |
| Mms (g)                  | 95.53  | 98.27  | 138.53  | 126.45  | 234.37  | 35.49   |
| Xmax (mm)                | 9      | 9      | 9       | 9       | 9       | 9       |
| Xmech (mm)               | 13.5   | 13.5   | 13.5    | 13.5    | 13.5    | 13.5    |
| Piston Diameter (in)     | 8.07   | 8.071  | 10.04   | 10.04   | 12.6    | 12.6    |
| Sd (in²)                 | 51.15  | 51.16  | 79.15   | 79.15   | 124.6   | 124.6   |
| Qes                      | 0.55   | 0.6    | 0.7     | 0.81    | 0.95    | 1.02    |
| Re (Ω)                   | 3.82   | 7.61   | 3.82    | 7.63    | 3.81    | 7.56    |
| Z (Ω)                    | 4      | 8      | 4       | 8       | 4       | 8       |
| BL (Tm)                  | 11.15  | 15.75  | 11.98   | 15.15   | 12.8    | 16.9    |
| Rms Power (watts)        | 350    | 350    | 400     | 400     | 450     | 450     |
| Qts                      | 0.47   | 0.5    | 0.56    | 0.63    | 0.7     | 0.74    |
| NO (%)                   | 0.218  | 0.205  | 0.282   | 0.272   | 0.282   | 0.239   |
| 1w/1m SPL (dB)           | 85.4   | 85.14  | 86.53   | 86.4    | 86.53   | 85.9    |
| Voice Coil Diameter (in) | 2.00"  | 2.00"  | 2.00"   | 2.00"   | 2.00"   | 2.00"   |
| Impedance (Ω)            | DVC 2  | DVC 4  | DVC 2   | DVC 4   | DVC 2   | DVC 4   |
| M-vd (ft.³)              | 0.0842 | 0.084  | 0.132   | 0.132   | 0.211   | 0.211   |
| Overall Diameter (in)    | 10.25" | 10.25" | 12.375" | 12.375" | 15.50"  | 15.50"  |
| Overall Height (in)      | 5.625" | 5.625" | 6.375"  | 6.375"  | 7.25"   | 7.25"   |
| Mounting Depth (in)      | 5.125" | 5.125" | 5.75"   | 5.75"   | 6.625"  | 6.625"  |
| Cutout Diameter (in)     | 9.00"  | 9.00"  | 11.25"  | 11.25"  | 14.125" | 14.125" |
| Flange Width (in)        | 0.625" | 0.625" | 0.50"   | 0.50"   | 0.75"   | 0.75"   |
| Flange Height (in)       | 0.50"  | 0.50"  | 0.625"  | 0.625"  | 0.625"  | 0.625"  |

## Enclosure Construction

Soundstream does not provide enclosure dimensions as there are infinite variables when designing a box, i.e. vehicle, amplifier, music preferences, etc... Any enclosures should be made of .75" (3/4") material only. When possible, make the baffle 1.5" (1 1/2) thick and add .75" (3/4") to the depth of the enclosure to compensate. All volumes **INCLUDE** vent/port and subwoofer displacements. **DO NOT** change the volume unless you plan on adding a substantial amount of bracing. For added performance, applying a coat of fiberglass resin to the interior walls will greatly improve sealing the enclosure. Adding a thin layer of poly-fill will improve response by smoothing out reflections within the enclosure. For designs tailored to your specific needs, please contact us at [tech-support@soundstream.com](mailto:tech-support@soundstream.com), or 1-800-724-1377.

## Enclosure Recommendations

|              |      | Cubic Feet | Port Diameter  | FB (Hz) | F3 (Hz) |              |  | Cubic Feet | Port Diameter  | FB (Hz) | F3 (Hz) |
|--------------|------|------------|----------------|---------|---------|--------------|--|------------|----------------|---------|---------|
| P.102 Ported | Min. | 1          | 3" x 14"       | 38      | 38      | P.104 Ported |  | 1          | 3" x 14"       | 38      | 38      |
|              | Opt. | 1.25       | 3" x 14"       | 33      | 32      |              |  | 1.25       | 3" x 14"       | 33      | 32      |
|              | Max. | 1.5        | 3" x 14"       | 30      | 29      |              |  | 1.5        | 3" x 14"       | 30      | 29      |
| P.122 Ported | Min. | 2          | 4" x 12"       | 36      | 33      | P.124 Ported |  | 2          | 4" x 12"       | 36      | 34      |
|              | Opt. | 2.5        | 4" x 12"       | 32      | 29      |              |  | 2.5        | 4" x 12"       | 32      | 30      |
|              | Max. | 3          | 4" x 12"       | 29      | 26      |              |  | 3          | 4" x 12"       | 29      | 27      |
| P.152 Ported | Min. | 3          | (2) 4" x 17.5" | 36      | 35      | P.154 Ported |  | 2          | (2) 4" x 17.5" | 36      | 35      |
|              | Opt. | 2.5        | (2) 4" x 17.5" | 31      | 30      |              |  | 2.5        | (2) 4" x 17.5" | 31      | 29      |
|              | Max. | 3          | (2) 4" x 17.5" | 27      | 26      |              |  | 3          | (2) 4" x 17.5" | 27      | 26      |

|              |      | Cubic Feet | Q T C | Tuning (Hz) |              |  | Cubic Feet | Q T C | Tuning (Hz) |
|--------------|------|------------|-------|-------------|--------------|--|------------|-------|-------------|
| P.102 Sealed | Min. | 0.5        | 0.975 | 52.1        | P.104 Sealed |  | 0.5        | 0.981 | 52.3        |
|              | Opt. | 0.75       | 0.827 | 48.2        |              |  | 0.75       | 0.837 | 48.5        |
|              | Max. | 1.25       | 0.747 | 47          |              |  | 1.25       | 0.76  | 47.4        |
| P.122 Sealed | Min. | 1          | 1.044 | 46.9        | P.124 Sealed |  | 1          | 1.185 | 46.5        |
|              | Opt. | 1.5        | 0.898 | 43          |              |  | 1.5        | 1.02  | 41.6        |
|              | Max. | 2          | 0.82  | 41.5        |              |  | 2          | 0.93  | 39.4        |
| P.152 Sealed | Min. | 1.5        | 1.137 | 44.1        | P.154 Sealed |  | 1.5        | 1.182 | 43.3        |
|              | Opt. | 2          | 1.034 | 40.5        |              |  | 2          | 1.077 | 39.4        |
|              | Max. | 2.5        | 0.966 | 38.4        |              |  | 2.5        | 1.007 | 37.1        |