

# SOVEREIGN 15-300TC

## FULL RANGE DRIVER



**15" / 381 mm**  
CHASSIS DIAMETER

**600 W**  
PROGRAM POWER

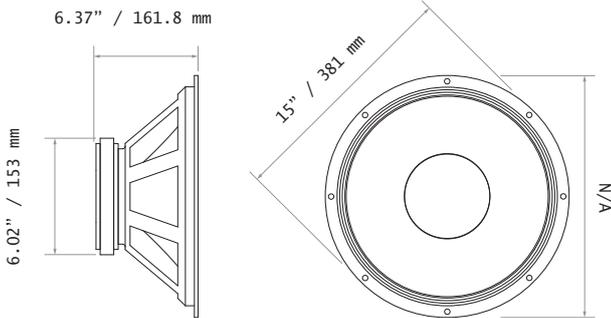
**50 Hz - 15 kHz**  
FREQUENCY RESPONSE

**2" / 50.8 mm**  
VOICE COIL DIAMETER

**99 dB**  
SENSITIVITY (1W/1m)

**3.5 mm Xmax**  
MAX. LINEAR EXCURSION

- + Triple cone configuration and geometry provides genuine, unrivalled extended frequency up to 17 kHz.
- + The finest option for full-range output in compact PA systems.
- + Superb when deployed for house of worship applications offering well defined vocal presence and clarity.
- + Optimised cone pulp offers increased strength, durability and performance.
- + 2-Inch Copper clad aluminium voice coil.



### GENERAL SPECIFICATIONS

|                                      |  |
|--------------------------------------|--|
| Nominal Chassis Diameter             | 15" / 381 mm                             |
| Nominal Impedance <sup>(1)</sup>     | 8 Ohm                                    |
| Minimum Impedance Zmin               | 7.2 Ω                                    |
| AES Power Handling <sup>(2)</sup>    | 300 W (A.E.S.)                           |
| Program Power                        | 600 W                                    |
| <b>Peak Power</b> (6dB Crest Factor) | <b>1200 W</b>                            |
| Frequency Range <sup>(6dB)</sup>     | 50 Hz - 15 kHz                           |
| <b>Sensitivity</b> (1W/1m)           | <b>99 dB</b>                             |
| <b>Magnet Material</b>               | <b>Ferrite</b>                           |
| Magnet Weight                        | 56 oz                                    |
| Magnetic Gap Depth                   | 0.32" / 8 mm                             |
| Flux Density                         | 1.1 Tesla                                |
| Former Material                      | Kapton                                   |
| Voice Coil Material                  | CCAW                                     |
| Coil Winding Height                  | 0.37" / 9.4 mm                           |
| <b>Voice Coil Diameter</b>           | <b>2" / 50.8 mm</b>                      |
| Cone/ Dust Dome Material             | Curvilinear Ribbed Paper / Paper         |
| Surround / Edge Termination          | Polyvinyl Damped Multi Roll. Poly Cotton |

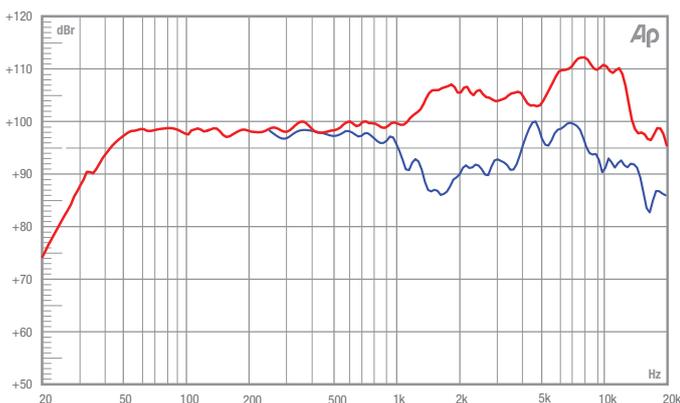
### TECHNICAL & THIELE SMALL PARAMETERS

|                           |  |
|---------------------------|--|
| Fs                        | 48 Hz  |
| Re                        | 5.2 Ω  |
| Qms                       | 9.892  |
| Qes                       | 0.753  |
| Qts                       | 0.7  |
| Vas                       | 203 Litres                                       |
| Vd                        | 0.29 Litres                                      |
| Cms                       | 0.196 mm/N                                       |
| Bl                        | 11 T/m   |
| Mms                       | 56 g   |
| Xmax                      | 3.5 mm   |
| Sd                        | 855 cm <sup>2</sup>                              |
| Efficiency                | 2.9 %  |
| Le (1k Hz)                | 0.165 mH   |
| EBP                       | 63.75 Hz   |
| Effective Piston Diameter | 15.03" / 381.76 mm                               |
|                           | 75 Ltr Closed box / 80 Ltr Vented tuned to 55 Hz |
| Rec. Enclosure Volume     |  |

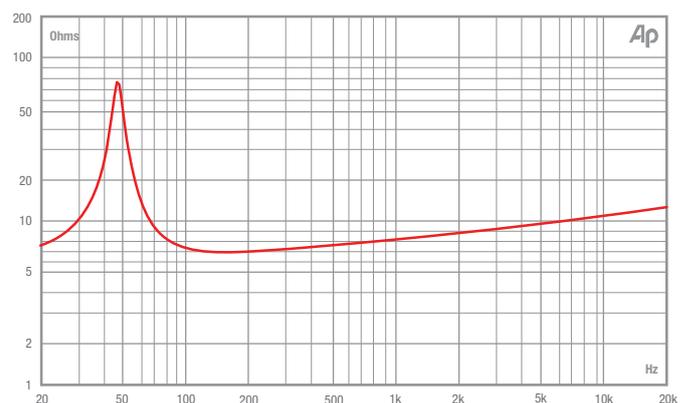
### MOUNTING / SHIPPING INFORMATION

|                                |                              |
|--------------------------------|------------------------------|
| Overall Diameter               | 15" / 381 mm                 |
| Width Across Flats             | N/A                          |
| Depth                          | 6.37" / 161.8 mm             |
| Flange Height                  | 0.35" / 8.89 mm              |
| Baffle Hole Diameter F/M       | 13.85" / 351.79 mm           |
| Baffle Hole Diameter R/M       | 13.85" / 351.79 mm           |
| <b>Chassis Material</b>        | <b>Pressed Steel</b>         |
| Gasket Supplied                | Front & Rear                 |
| Outer Fixing Holes             | 8x ø 6.35 mm on 369.2 mm PCD |
| Inner Fixing Holes             | N/A                          |
| Connectors <sup>(4)</sup>      | Solder Tag                   |
| <b>Weight</b>                  | <b>11.03 lb / 5 kg</b>       |
| Shipping Weight                | 13.6 lb / 6.17 kg            |
| Packing Carton Dimensions (mm) | (W) 420 (D) 420 (H) 220      |

### FREQUENCY RESPONSE DATA<sup>(3)</sup>



### IMPEDANCE



(1) Please enquire about alternative impedances.

(2) A.E.S. power handling test. Pink noise bandpass filtered at 12 dB per octave with cutoff frequencies of 55 Hz and 550 Hz. Driver mounted in free air, test signal applied at rated power for two hours.

(3) Half space response measured in a 975 Litre sealed box. Blue line = fundamental 45° off-axis. Please note that the frequency response measurements are supplied for comparison only and are not a measure of the low frequency performance which may be achieved in a fully optimised system.

(4) Positive voltage at red terminal causes forward motion of cone.