

# FRAZIER

## F2510 Woofer - Product Information Sheet

### Introduction

The Frazier F2510 woofer is designed to extend the low frequency bandwidth of CAT 50 family loudspeakers as low as 30 Hz and to increase headroom at low frequencies. Housed in the same enclosure as the CAT 56/59, the F2510 is visually and acoustically compatible with the CAT 50 family loudspeakers.

### Maximum Utility

The F2510 is designed to be used in arrays with CAT 56/59 devices. An available internal lowpass crossover filter provides a 180 Hz cutoff, or the unit may be actively crossed over. A complementary highpass filter is available factory-installed in CAT 50 family loudspeakers..

### Acoustic Design

The F2510 consists of a heavy duty 18" cone transducer in a sealed enclosure. Equalization may be used to extend the lower cutoff frequency to 30 Hz. The F2510 is available with factory-installed suspension systems comprising load-rated threaded rod and Kinedyne pan fittings, for installation as part of an array.

**Power Considerations** - The power rating used for the F2510 is derived as specified by the AES (AES2-1984). A pink noise signal is clipped to a 2:1 (6dB) peak/RMS ratio and filtered with low and high pass filters matched to the device bandwidth. This signal is applied to the loudspeaker for a 2 hour period. All appropriate parameters are checked after this exercise to ensure proper performance. The power rating is set as the upper limit of safe operation and is determined by evaluating the RMS voltage applied during the test and the nominal impedance of the loudspeaker. Thus, the power rating =  $V^2_{rms}/Z_{nom}$ . This test is run on several production units as a final validation of the rating.

Specifications		Finishes	Black, White, Carpeted
<b>Bandwidth</b>	60Hz-500Hz +/- 3 dB (30Hz with equalization)	<b>Model Numbers</b>	
<b>Power Handling</b>	400 Watts (See Above)	Black Textured Finish	F2510
<b>Sensitivity</b> (2.83vrms/1m)	96 dB SPL	White Textured Finish	F2512
<b>Impedance</b> (Nominal)	8Ω	Scuff-Resistant Finish	F2515
<b>Transducers</b>	1 ea. 18"(457mm) LF		
<b>Crossover Frequency</b>	180 Hz (w/optional passive LP installed)		
<b>Input Connection</b>	Barrier Strip (Neutrik Speakon optional)		
<b>Weight</b>	75lb (34.1 kg)		
<b>Dimensions</b>	21-3/4"H x 21-3/4"W x 20-3/8"D (552mm x 552mm x 518mm)	Call for .dxf CAD files and mechanical drawings. Specifications are subject to change without notice.	
<b>Construction</b>	MDF		

**F2510**

Form 2510R599

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