



DESCRIPTION

Engineering design of the Altec Lansing 817 Low-Frequency Enclosure enables maximum performance of the housed loudspeakers. Size and shape of this combination front-loaded horn/bass reflex enclosure have been carefully designed with regard to overall system performance, making the 817 ideal for use in arrays. The system offers *high efficiency*, *low distortion* and *higher directivity* than standard bass reflex boxes.

Design of the front-loading enclosure loads the bass driver down to 150 Hz; the bass reflex porting extends useful response to 50 Hz and

lower when multiple units are used. With low-frequency loudspeakers mounted in the enclosure, the 817 may be used in two-way sound systems that include a separate high-frequency horn/driver mounted externally on each cabinet.

Compact and extremely durable, the 817A is constructed of dense $\frac{3}{4}$ " particle board, while the 817B utilizes 7-ply birch plywood for greater weather resistance in outdoor installations. Each enclosure is extensively braced and is lined with absorbent damping material. Both are finished in a texture gray enamel.

SPECIFICATIONS

Type: Combination front-loaded horn and bass reflex enclosure

Components:	416-8C	515-8G	515-16G	515-8GHP
Power Rating—				
Continuous Program ¹ :	300W	300W	300W	800W
AES Rating ² :	150W (25V)	150W (25V)	150W (35V)	400W (40V)
Frequency Response³:	45-1000 Hz	55-4000 Hz	60-4000 Hz	65-4000 Hz
Sensitivity (dB SPL)⁴—				
4 feet:	102.0	104.5	105.5	106
1 meter:	104.0	106.5	107.5	108.0
Maximum Output (dB SPL)—				
4 feet:	123	125	125	126
1 meter:	125	127	127	128
Nominal Impedance:	4Ω	4Ω	8Ω	4Ω
Distribution Pattern:	90° horizontal x 40° vertical			
Dimensions—				
Height:	33¾" (85.73 cm)			
Width:	37½" (95.25 cm)			
Depth:	26¾" (67.95 cm)			
Weight—				
Net:	180 lbs. (81.6 kg) without speakers			
Shipping:	210 lbs. (95.2 kg) without speakers			
Finish:	Theater gray enamel			
Accessories (must be ordered separately):	Altec Lansing 416-8C, 515-8G, 515-16G, 515-8GHP			

¹Continuous power is 3 dB, or twice the AES power rating.

²Measured power = E^2/R , using pink noise with a crest factor of 6 dB and a band limit of 60-600 Hz)

³Low frequency limit is the system F_3 or 3 dB down point.

⁴Measured in the free-field at 1 meter on axis with one watt (power = E^2/R) of pink noise band-limited from 100 to 1000 Hz.

ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

The low-frequency loudspeaker enclosure shall be a combination front-loaded horn and bass reflex type providing for two 15" low-frequency loudspeakers. The enclosure shall meet the following performance criteria. Power rating with band-limited pink noise 60-600 Hz, _____ watts with Altec Lansing Model _____ LF speaker. Pressure sensitivity, _____ dB SPL with Altec Lansing Model _____ LF speaker when measured on axis 1 meter from front edge of enclosure with 1 watt input of band-limited pink

noise from 100-1000 Hz (Ref.: 0.0002 dyne/cm²). Nominal impedance, _____ ohms with Altec Lansing Model _____ LF speaker. The enclosure shall be constructed of heavy ¾" material and shall be heavily braced and lined with acoustic damping material. It shall be 33¾" H x 37½" W x 26¾" D, shall weigh 180 pounds.

The exterior shall be finished in theater gray enamel.

The low-frequency loudspeaker enclosure shall be the Altec Lansing Model 817.



1250 NORTH RED GUM STREET, ANAHEIM, CALIFORNIA 92806
ALTEC CORPORATION