



## iDesign Model iD2.112-SB

### ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The low frequency loudspeaker system shall incorporate a single 4" (102 mm) voice coil, 12" (303 mm) diameter transducer, mounted in an optimally vented enclosure, and tuned for maximum low frequency response. The horizontal and vertical beam width for a single unit shall be 360°. Directional characteristics can be achieved with an array of multiple cabinets.

The system frequency response shall vary no more than  $\pm 3$  dB from 45 Hz to 180 Hz measured on axis. The transducer shall produce a Sound Pressure Level (SPL) of 95 dB SPL at a distance of 1 meter with an electrical power input of 1 Watt, and shall be capable of producing a maximum peak output of 130 dB SPL on axis at 1 meter.

The low frequency transducer shall handle 800 Watts of amplifier power (per AES ref Standard AES2-1984-r2003) and shall have a nominal impedance of 8 Ohms.

The loudspeaker enclosure shall have a maximum weight of 65 lbs.(29.5 kg) and shall measure 15.13" (385 mm) wide at front, 5.16" (203 mm) in width at rear, 27.5" (699 mm) in height, and 19.94" (507 mm) in depth. The enclosure sides shall taper at 15° from a maximum frontal width, narrowing to the rear. The structure of the enclosure shall be constructed of 12-ply void-free birch hardwood plywood and shall have a weather and wear resistant ProCoat(tm) polyurea hybrid finish.

Input connectors shall be two, two-terminal barrier strips, each connector wired in parallel.

A total of fourteen 3/8"-18 UNC threaded mounting/suspension points (four on top, three on bottom, two per side and one back) shall be provided. Four additional mounting points shall be provided on the top, bottom, and each side configured to accept an OmniMount brand, Series 60 bracket.

Components in the front of the enclosure are to be protected by a curved grill made from perforated steel that is coated with heat cured epoxy powder, and lined with acoustically transparent foam.

The low frequency loudspeaker system shall be the McCauley Sound model iD2.112-SB.