



M55i

ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The subwoofer loudspeaker system shall incorporate two (2) McCauley 8141, long excursion, 4" (102 mm) voice coil, 15" (457 mm) diameter transducers, mounted in an optimally vented bass reflex enclosure. The enclosure shall be tuned for maximum low frequency response and have a vent area large enough such that distortion is minimized at the rated continuous power. 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 unprocessed system frequency response shall vary no more than ± 3 dB from 40 Hz to 250 Hz measured on axis. Each transducer shall produce a Sound Pressure Level (SPL) of 99 dB SPL at a distance of 1 meter with an electrical input of 2.83Vrms, and shall be capable of producing a maximum peak output of 134 dB SPL on axis at 1 meter.

Each low frequency transducer shall handle 800W of amplifier power for 2hr (per AES Standard AES2-2012) and shall have a nominal impedance of 8.0 Ohms.

The loudspeaker enclosure shall have a maximum weight of 140lbs (63.6 kg) and shall measure 42.0" (1067 mm) wide, 17.0" (432 mm) in height, and 26.0" (661 mm) in depth. The structure of the enclosure shall be constructed of 13-ply void-free birch hardwood plywood and shall have a weather and wear resistant ProCoat(tm) polyurea hybrid finish.

The input connection shall be, one (1) 4-Position, 20A rated, Phoenix PC_4-4-ST-7.62 which accepts single bare wires up to 10AWG or dual 12AWG wires with a ferule. Optionally the input connector shall be two (2) Neutrik Speakon NL4 locking connectors wired in parallel. The loudspeakers shall be wired so that LF1 is on pins 1+/1- and LF2 is on 2+/2-.

The enclosure shall include twenty-four (24) 3/8"-16 UNC threaded mounting/suspension points. Components in the front of the enclosure are to be protected by a flat grill made from perforated steel that is coated with heat cured epoxy powder, and lined with acoustically transparent foam.

The high performance subwoofer loudspeaker system shall be the McCauley Sound model M55i.