**Forum FC112 full-range coaxial point-source loudspeaker**

ARCHITECTS’ & ENGINEERS’ SPECIFICATIONS

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The loudspeaker shall be full-range and contain a coaxial 2-way driver comprised of a 12-inch (305-millimeter) woofer and a 3-inch (76-millimeter) high-frequency compression driver mounted on a Beamwidth Matching Waveguide. The waveguide shall match the coverage of the woofer and high-frequency device at crossover. The waveguide shall function as the enclosure baffle and seal the acoustic volume of the woofer while providing energy vents to allow the propagation of low-frequency energy according to the rated coverage of the loudspeaker. The loudspeaker shall include a fully tuned passive crossover.

The loudspeaker shall meet or exceed the following performance specifications: On-axis system frequency range shall be 48 Hz to 20 kHz (-10 dB) with the use of recommended active equalization. The loudspeaker sensitivity shall be 96 dB SPL in an anechoic environment with recommended processing with 1 watt input at 1 meter. The long-term power handling rating shall be 300 W (extended-lifecycle test using pink noise filtered to meet IEC 268-5, 6 dB crest factor, 500-hour duration). Maximum peak output shall be 132 dB SPL. The nominal coverage pattern shall be 110° horizontal × 60° vertical. The nominal rated impedance shall be 8 ohms.

The inputs of the loudspeaker shall be one Neutrik® speakON® NL4 connector and one barrier strip. The loudspeaker shall include a 2-position switch for operating the loudspeaker in passive mode or bi-amplified mode.

The loudspeaker shall be suited for permanent indoor use or protected outdoor use with an IP43 rating. The loudspeaker shall be constructed of birch plywood with a two-part polyurethane coating in black. The transducers and waveguide shall be located behind a perforated steel grille with a powder-coated finish. The loudspeaker shall have six sealed M10 threaded inserts, three sealed M8 threaded inserts, and four sealed M6 threaded inserts. The loudspeaker shall be compatible with optional mounting accessories supplied separately by the manufacturer: a U-bracket that can be installed vertically or horizontally, an optional suspension bracket that provides incremented tilt angles when suspended from a single point, and an external pole adapter for mounting on a loudspeaker stand or pole. The loudspeaker dimensions, height × width × depth, shall be 18.0 × 18.0 × 14.1 inches (457 × 457 × 357 millimeters) and its weight shall be 44.3 pounds (20.1 kilograms).

The loudspeaker shall be the Forum FC112 full-range coaxial point-source loudspeaker.