**FreeSpace FS4CE in-ceiling loudspeaker**

ARCHITECTS’ & ENGINEERS’ SPECIFICATIONS

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The full-range loudspeaker shall contain a single 4.5-inch full-range transducer.

The full-range loudspeaker shall meet the following performance specifications: On-axis system frequency range shall be 70 Hz to 17 kHz (-10 dB) with the use of recommended active equalization. The loudspeaker sensitivity shall be 88 dB SPL in half-space environment with recommended high-pass protection with 1 W input at 1 meter. The long-term power handling rating shall be 50 W (AES test methodology using IEC system noise, 2-hour duration). Maximum continuous output shall be 105 dB SPL and the maximum peak output shall be 111 dB SPL. The nominal coverage pattern shall be 145° conical at 1–4 kHz.

The loudspeaker shall be constructed of an engineered-plastics front baffle with an integrated steel formed enclosure. The loudspeaker shall consist of PC-PBT plastic materials that are resilient to cooking oil exposure. The loudspeaker shall be plenum rated for use in air handling spaces and in compliance with the following safety standards; UL1480 for Fire Alarm and Signaling Systems, UL2043. The transducers shall be located behind a perforated steel grille with a powder-coated finish. The loudspeaker shall contain standard mounting arms. The loudspeaker shall be available in black or white. Input connectors shall be a Euroblock 6-pin connector with loop-through, located on the front baffle, with a weather resistant input cover. The loudspeaker shall be intended for use outdoors in wet locations. The loudspeaker shall have a nominal rated impedance of 8 ohms and shall be wired in parallel with a line voltage matching (stepdown) transformer with a level selector appropriate for output taps of 2.5, 5, 10, 20, 40 W and Bypass (8 ohms). The loudspeaker input connections shall allow for direct connection to 70-volt, 100-volt or low-impedance amplifiers. Loudspeaker backcan dimensions shall be 220 × 163 mm (8.7 × 6.4 in) and net weight shall 3.47 kg (7.65 lb) with grille. Outward front baffle dimensions shall be 272 mm (10.7 in).

Warranty shall be 5 years. The loudspeaker shall be the FreeSpace FS4CE in-ceiling loudspeaker.