**FreeSpace FS2SE surface-mounted loudspeaker**

ARCHITECTS’ & ENGINEERS’ SPECIFICATIONS

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The full-range loudspeaker shall contain a single 2.25-inch full-range transducer.

The full-range loudspeaker shall meet the following performance specifications: On-axis system frequency range shall be 83 Hz to 19 kHz (-10 dB) with the use of recommended active equalization. The loudspeaker sensitivity shall be 87 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 20 W (AES test methodology using IEC system noise, 2-hour duration). Maximum continuous output shall be 100 dB SPL and the maximum peak output shall be 106 dB SPL. The nominal coverage pattern shall be 145° H × 140° V at 1-4 kHz.

The loudspeaker shall be constructed of an engineered-plastics, UV fade resistant enclosure. The loudspeaker shall consist of PC-PBT plastic materials that are resilient to cooking oil exposure. The loudspeaker shall be in compliance with the following safety standards; UL1480 for Fire Alarm and Signaling Systems. The transducers shall be located behind a perforated steel grille with a powder-coated finish that is attached with a tamper-resistant design. The loudspeaker shall contain a u-bracket mounting system with preset mounting angles that attaches, adjusts and locks with the use of tools. The loudspeaker shall be available in black or white. Input connectors shall be a Euroblock 6-pin connector with loop-through, mounted on the rear, 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 16 ohms and shall be wired in parallel with a line voltage matching (stepdown) transformer with a level selector appropriate for output taps of 1, 2, 4, 8, 16 W and bypass (16 ohms). The loudspeaker input connections shall allow for direct connection to 70-volt, 100-volt or low-impedance amplifiers. Loudspeaker dimensions shall be 182 × 113 × 114 mm (7.1 × 4.4 × 4.5 in) and net weight shall be 1.43 kg (3.15 lb).

Warranty shall be 5 years. The loudspeaker shall be the FreeSpace FS2SE surface-mounted loudspeaker.