

EVC-VI EN54 A&E

The loudspeaker shall be a two-way passive system with Euro block input connectors that accept wire sizes up to AWG 10. The two Euro block connectors on the input panel should be configured for a speakerlevel, two-conductor input that is connected in parallel to terminals on a second Euro block connector so that additional loudspeakers can be connected in parallel. The remaining pair of terminals on each of the two connectors should be configured for a pass-through audio connection. The input panel should also be able to accept NL4-type connectors or be adapted for weather-proof single or dual gland nuts when fitted with an accessory input adapter plate.

The input panel should include a landing pad and appropriate electrical connections on the inside of the loudspeaker cabinet so that the installer can mount and connect a high-quality audio transformer in series with the direct low-impedance connection to the loudspeaker dividing network. When the transformer is installed, the input circuit network shall be augmented with a high-pass filter with a current-dependent corner frequency in order to preserve the full bass response of the loudspeaker while protecting system amplifiers from the drop in load impedance that commonly occurs when audio transformers are driven into saturation. The passive dividing network shall employ an enhanced 4th-order filter topology with responseshaping equalization and high frequency protection, resulting in acoustical crossover slopes of 24 dB per octave or steeper. The system shall have a 12-inch low frequency transducer with a nominal impedance of 8 ohms, a 2-inch diameter voice coil. System continuous average power rating shall be 300 watts (per ANSI/EIA RS-426 A). The high-frequency section shall employ a compression driver with a 1.25-inch voice coil and 1.25-inch titanium diaphragm, mounted on a compound waveguide that has been optimized to evenly cover a rectangular listening area, the dimensions of which are determined by the mounting height and aiming angle of the loudspeaker. The loudspeaker enclosure shall be constructed of 15-mm plywood. The speaker is designed to be oriented with the compound horn on the underside of the cabinet and the woofer set at an angle on the front face of the cabinet. The enclosure shall be finished with a polyurea coating. The grille shall be constructed from 18 GA powder-coated cold-rolled steel backed with acoustically transparent fabric [PI: 18 GA stainless steel backed with acoustically transparent hydrophobic cloth]. The system shall be capable of high-level operation with a bandwidth of 70 Hz to 20 kHz (-3 dB down point). The system dimensions shall be 411.0 mm (16.18 in) wide by 527.8 mm (20.78 in) high by 647.6 mm (25.50 in) deep. The system shall employ facilities for mounting with a U-bracket or pan/tilt wall bracket, as well as facilities for suspension from M10 mounting points. Net weight shall be 21.8 kg (48.1 lb). The loudspeaker shall be the EVC-1122-VIB or C-1122-VIW from Electro-Voice.