

Basic data

product name	SYSTEM SUPERIOR
product description	The system is made of 6 layers, mounted on a frame, closed with a double layer of acoustic plasterboards. The greatest effectiveness in isolating high tones. Acoustic insulation of 54.2dB.
producer	Cicha Ściana sp. z o.o. ul. Poprzeczna 15A, 05-083 Wierzbina EU VAT Id: 1182282512

Product characteristics

thickness	100mm
number of layers	6
effectiveness	Rw(C ; C _{tr})=54 (-2 ; -8)dB /indicators according to PN-EN ISO 717-1/ system tested at the Vibroacoustic Test Laboratory of CTO S.A. commissioned by Cicha Ściana sp. z o. o.
weight	44kg/m ²

Active system components	thickness	density
closed-cell solid rubber	3mm+2mm	2000kg/m ³
Semi-open-cell rebound polyurethane foam	40mm	160kg/m ³
closed-cell rubber foam	30mm	60kg/m ³
acoustic plasterboard	2x12.5mm	1020kg/m ³

Materials used	Assembly method
solid rubber rebound polyurethane foam rubber foam acoustic plasterboard contact adhesive elastic adhesive EPDM tape fiberglass tape steel, galvanized CW profiles steel, galvanized UW profiles expansion anchors FixDens anti-corrosion screws spackling compound finishing paint	Solid rubber affixed with hybrid elastic adhesive allows for maneuvering the pre-attached panel, enabling precise alignment both between panels and with adjacent walls and ceilings. Polyurethane and rubber foams mounted with contact adhesive sprayed on both sides of the glued surfaces. The spaces between the boards are filled with technical sealant. Board joints sealed with EPDM tape to close any acoustic bridges. The supporting profiles are matched to the thickness of the combined foams, so we can be sure that their interiors are filled with foam, ensuring proper stiffness and acoustic tightness of the system. The 3mm EPDM rubber tape used for the system's peripheral profiles limits the transmission of vibrations from the floor, walls and ceiling to the insulating wall. The supporting structure is attached to the walls and ceiling with expansion plugs with an expanding PVC collar. The increased diameter of the screw head provides much better pressure on the mounted elements. Both layers of acoustic plasterboards are screwed to the frame with anti-corrosion FixDens screws with electrolytic galvanization for specialized boards. The innovative, unique structure of the individual screw sections allows for permanent installation to the supporting substructure. Acoustic plasterboard mounted with contact adhesive. The joints of the boards are filled with Siniat Nida Multitask, creating a solid and flexible joint, and reinforced with non-flammable glass fiber tape. Sliding joints of panels and walls in the "controlled crack" technique, preventing possible cracking of the structure, finished with acrylic. Initial and final sanding of the dried putty using specialized tools with dust extraction. This minimizes dusting of the processed plaster, preventing contamination of other surfaces or equipment elements in the room.