Acoustical Wall Paneling System

The G.I. frame of thickness 0.50 consists of a GI metal stud frame of size 50mm having one flange of 41mm and another of 44mm placed @ every 600 mm c/c in the vertical direction. These studs are placed at floor and ceiling channels of 76 mm in width and 0.50 mm thick and have equal flanges of 32 mm. The floor and ceiling channels are fixed to floor and soffit using fasteners at every 600mm c/c. A horizontal frame section is placed at every 600 or 1200mm c/c. The Polyester Wadding of thickness 50mm and density 48Kg/m3 is fixed in between the studs enacted with the chicken mess. One layer of 9mm perforated waterproof composite flour board is screwed on the outer side. These boards are joined using “type S” Self tapping SS W 25 / 3.5 x 25mm corrosion-resistant drywall steel screws spaced at 200mm centers on all joints and 300mm centers in the field of boards. Screw fixing is done mechanically. These boards are perforated on-site or CNC ensuring min. 50% area is perforated.

Finally 9mm thick Polyester fiber acoustic panels are pasted on top of MDF board (using any acrylic adhesive such as fevicol SR998 or hot melt adhesive) of the board as per the architect’s design. The entire system should be eco-friendly, 100% recyclable & toxic-free.

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