Providing and Fixing of Envirotech Systems Ltd GW SLATS® Grooved Wooden Slats Wall Panelling. (GW Slats) G-21 Grooved Wooden Slats Panel size: 197x2440x16mm. Supply of approved G-21 Grooved and Helmholtz fluted perforated panels of width 197mm, thickness of 16mm ± and length 2440 mm or as required by the Architect/ approving engineer, made of Prelaminated High Quality E1 Grade, Fire Resistant, High Moisture Resistance, Borer, Termite & Fungus Resistant, High Density Premium Board of 850kg/m3 density substrate with a laminated facing as per the approved shade & finish and a melamine balancing layer on the reverse side. The boards shall have a special perforation pattern where the visible surface has a Helmholtz fluted perforation of 3mm Groove and 21mm of visible Pitch C/C. The edges of the panels shall be tongue-and-grooved to receive special clips for installation. The back of the perforated panel shall have sound absorbing non-woven acoustical fleece having NRC of 0.90. As per confirming by NPL IS: 8225-1987, ISO:354-2003, ASTM 423-90, TRN-20060160/D1.07/T-020. Acoustic Panels are Green Building Certified by GRIHA V.2019 criterion: 11, GRIHA V.2015 criterion: 11 & GRIHA V. 3.1 criterion: 29. Cavity area in between GI Channel filled with compressed 50mm thick Acowool for best NRC value directed by the Engineer-in-Charge. The panel shall be mounted on special channels using clips as approved by the Engineer -in-charge. Install G.I stud of section 48X34X36 mm or as approved by the Engineer -in- Charge on the solid wall horizontally using screws and plugs at spacing of 600mm centre to-centre. Screw the aluminium channel (keel) vertically on channeled G.I stud 600mm centre to centre. Install the first set of wooden panels by inserting the clips. For border channel insert the groove of the panel in to the projecting flange of the aluminium clip. Continue installing rows of panels by inserting the tongue into the groove of the earlier inserted panel and progressively installing clips for inside channel into the next aluminium channel (keel) and simultaneously fill the gap between wall & panel by Acowool 30mm thick 1000GSM, 20kg/m3 Density, IS:8225-1987, ISO 11654:1997, ISO:354-2003, ASTM C423-09a, ASTM 423-17 and AS 1045 - 0.87. Continue the process till the actual height is achieved. Use clips for border channel to finish off the installation, finish the edges using wood moulding of matching colour as approved by Engineer-in- Charge. The installed panels should give an NRC minimum of 0.9. Approved Makes: Envirotech Systems Limited to all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.