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METHOD STATEMENT FOR Dry Ceiling With Resilient Hanger

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1. SCOPE:

This Method Statement provides the control sequence of construction and methodology that will be used for the installation of dry ceiling with resilient material (Hangers) as an acoustic treatment for ceiling inside the area of treatment by M/s OPTIMA INTERNATIONAL.

2. REFERENCES:














- Submitted technical submittal for acoustic treatment.
- Approved drawings will be issued for acoustic treatment construction.

3. GENERAL:











Acoustic treatment for ceiling is to be applied in accordance with the drawings, project specifications and the product manufacturer's recommendations.




4. RESOURCES:

4.1. Material List:



-  Masonry expansion anchors :M8/M10 S, size 8mm
-  Threaded rods :GI, 8/10 mm
-  Ceiling hangers by OPTIMA.
-  Upper main runners :UA 50/40, custom slotted, 2.00 mm thk x 3000 long
-  Lower furring channels :CD 60/27, regular 0.60 mm thk x 3000 long, Intersection connectors : UA/CD
-  Nuts and washers : Size 8/10 mm
-  Beam clamps :Size 8 mm
-  Perimetric support profile: UD 28x27 mm Perimetric Isolation
-  Gypsum boards: 12 mm thk, regular.
-  Insulation overlay :fiberglass, 50mm thk x 48kg/m3 density
-  Joint compound :28 / 30 kg pails
-  Glass tissue tape rolls :50mm wide
-  Caulk: Elastomeric, non-hardening, 600 ml sausages or equivalent.

5 INSTALLATION PROCEDURE:

-  Ensure that all MEP services are installed. Identify any access requirements, such as valves; access doors etc etc. Sprinkler heads shall be flush or projecting below the finished ceiling level.
-  Based on the finished level of the face gypsum board. (Ceiling finish level, sought by the client), determine set-outs. Mark outline of isolation board material, 5mm above finished level.
-  Drill 14mm dia holes into slab soffit, 55 mm deep, and grid size @ 1200 x 1200 mm. (or equivalent based on loading nature) The UA50/40 runners are positioned not more than 400 mm from one end wall, terminated 25mm (clearance) from the perpendicular wall. The edge spacings between these runners are 1200mm maximum. The CD 60/27 furring channels are positioned no more than 100mm from one end wall; spacing between these is 600mm maximum.
-  Cut threaded rods into appropriate equal length as per set-outs, insert shield anchor into soffit holes. Assemble two nuts at the other end, screw rod/studding into anchor. Ensuring nuts are securely locked together, apply torque thru' top nut, the rod is fixed full depth, then carefully slacken and remove the two nuts.
-  Where suspension is from truss members, beam clamps shall be used. Client to facilitate suspension locations for 1200 x 1200 grid matrix of hangers
-  Suspend the used hanger with nut and washer assembly, at both ends. Hanger's grid spacing shall be 1200 x 1200 mm.
-  Secure UA 50/40 slotted runners with nut and washer assembly.
-  Secure CD 60/27 channels to UA 50/40, using custom intersection connectors. The CD 60/27 channels are embedded in the perimetric support profile at opposite ends.
-  Fix gypsum board layer with drywall screws. Terminate gypsum board edges at 5mm (clearance) from wall. (Install the second layer of gypsum staggered, if the system is for 2 layers).
-  As the gypsum board layer is being fixed, place insulation overlay progressively over CD 60/27 channels, between 1200mm edge spacings of UA 50/40 runners.

-  Joints are filled with joint compound, level good. At square edge butt joints, peel-off 30 mm wide paper backing on each side, adhere glass-tissue tape, apply joint compound, level good.
-  Place caulk at the perimeter in the 5mm wide recess resulting at the wall interface, level good.
-  Apply one primer coat of paint, (primer coat, Finish paint/ second / final coat by others).

6 SAFETY:

-  Proper scaffolding shall be used and safety harness to be used and secured, if required.
-  All personal protective equipment shall be used as appropriate according to the nature of the job.