

MEP WORKS IN ESPAC MATERIALS - METHOD OF STATEMENT

1. MEP WORKS

1.1. GENERAL INFORMATION

- 1.1.1. All the MEP works are done in the same manner of executing in the conventional concrete building with taking in attention the following points;
 - 1.1.1.1. hammering is not allowed in ESPAC;
 - 1.1.1.2. All the chipping works should be done using the recommended tools;
 - 1.1.1.3. In the case of load-bearing panels with standard size 60 cm, the maximum width of the vertical groove is 30% from the width of the panel is the case of standard panels the max groove will be 20cm;
 - 1.1.1.4. The maximum core diameter in the standard AAC slabs is 15 cm;
 - 1.1.1.5. Please mention the electric panel place and any other wide duct in your tender drawings to take care of those openings on ESPAC design;

1.2. EXECUTION STEPS

- 1.2.1. Assign and mark all the conduits and ducts places on the walls;
- 1.2.2. Start the cutting process using the normal grinder, or using our recommended machine (Macrozza);
- 1.2.3. Place all the conduits and ducts and use the cement glue materials for close the opening (Cement Glue Data Sheet is attached **Attachment # 1**);
- 1.2.4. Repair all the surfaces filled by the cement glue using the sandpaper and make it ready for the finishing works;

1.2.5. Cutting Depth is detailed as below;

1.2.5.1. Non-load Bearing walls;

- 1.2.5.1.1. Vertical cutting can be done with any required depth;
- 1.2.5.1.2. Horizontal cutting should be as follows
 - 1.2.5.1.2.1. 10 cm walls max depth is 5 cm
 - 1.2.5.1.2.2. 15 cm walls max depth is 7.5 cm
 - 1.2.5.1.2.3. 20 cm walls max depth is 10 cm



1.2.5.2. Load Bearing walls

- 1.2.5.2.1. Vertical cutting can be done with any required depth with considering that the cutting will not affect the slab bearing distance
 - 1.2.5.2.1.1. Slabs should be rested on 75% of its width as a minimum bearing distance.
- 1.2.5.2.2. Horizontal cutting shouldn't exceed 5 cm depth & shouldn't exceed 25 % of the panel width in case of required big opening, please mention in the drawings to consider in the design.

2. WALLS FINISHING WORKS

2.1.1. EXECUTION STEPS

- 2.1.1.1. Repair and clean the joints between the panels to get a soft leveled surface;
- 2.1.1.2. Spray the joints with enough water then place the fiber mesh (10 cm width at least) using Gesol;
 - 2.1.1.2.1. In case of mini panels system fiber mesh should be used in all the joints between AAC and concrete elements before applying the coat:
 - 2.1.1.2.2. In case of wide opening such as the electric panel board fiber mesh has to be applied to close the opening on the right way and to cover the joint between the opening and the wall before applying the coat;
- 2.1.1.3. Spray all the walls with enough quantity of water before applying the cement coat (Execution steps as per the cement coat data sheet);
- 2.1.1.4. Apply the cement coat with minimum thickness 3 mm to cover all the variations between the panels, Thickness of the fiber mesh as well.
- 2.1.1.5. (Thickness of the applied cement coat should be increased if needed to get a leveled surface);
- 2.1.1.6. In the case of Block full system & Mini-panels full system, you have to repair and level the surface using (AAC mortar to fill any
- 2.1.1.7. damage) & (Manual sanding or using sanding machines for leveling) and you will be interested on the item no. 2.1.1.4 only;

(ESPAC MEP VIDEO)