Aluminum formwork installation process

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I. Pre-construction preparation

1.Tool preparation: make sure all necessary tools such as mold remover, dismantling hammer, adjusting hook, building stool, pin pin piece, high strength screw nut, pull piece, square through buckle, etc. have been prepared.

2.Material awareness: Be familiar with the composition of architectural aluminum formwork, including aluminum profiles or plates, support system, fastening system, accessory system and so on.

II. Measuring and Laying Lines

1. Measuring and positioning: the surveyor will measure all the side lines and 200mm (or 250mm) control lines of the wall and column according to the axes.

3.Positioning steel welding: welders in the root of the wall column about 50mm from the ground, spacing not more than 700mm position welding positioning steel, to ensure that the diameter of the steel bar is not less than 12mm, and leave the corresponding protective layer.

III. Reinforcement for wall columns and pre-embedded of water and electricity

1. Wall and column reinforcement binding: according to the requirements of the construction drawings, carry out the binding of wall and column reinforcement.

2. Pre-embedding of water and electricity: after the completion of wall and column reinforcement binding, pre-embedding of water and electricity pipelines.

IV. Aluminum formwork installation

1.Install the aluminum formwork on one side of the wall and column, according to the drawing of the board, start installing from the corner formwork first, and connect the formwork with standard pins.

2.Place precast cement inside the formwork and install sleeves and bolts.

3.Continue to install the other side of the wall column and the two ends of the aluminum formwork, to ensure that the connection between the formwork is tight.

4.Bolt the beam bottom support formwork to both sides of the formwork on the ground first, then erect the top support and install the aluminum formwork at the bottom of the beam.

5.Align the edges of the aluminum formwork of the wall columns and the bottom of the beam to ensure that the edges of all the formwork are aligned to ensure that the dimensions of the structure after pouring are accurate.

6.Install the aluminum formwork on the side of the beam, and connect the corner keel of the slab.

7.Set up the top bracket and install the flat keel.

8.Install the aluminum plate of the floor panel to ensure the flat surface of the plate.

9.Install aluminum molds of balcony, floating board and public parts according to the requirements of construction drawings.

V. Reinforcement and adjustment

1.Install various of reinforcement pieces to reinforce the aluminum panels of the wall columns.

2.Adjust the elevation of the bottom of the beam and the flat plate using adjustable supports to ensure compliance with the design requirements.

3. Install diagonal braces and adjust the verticality of the wall columns to ensure structural stability.

VI. Acceptance and pouring

1. After the template installation is completed, carry out the acceptance work of aluminum mold, steel reinforcement, water and electricity to ensure that it meets the design requirements.

2. After the acceptance, pour the concrete on the floor. In the process of pouring, it is necessary to send a person to check and review the verticality and horizontality.

VII. Demolding and cleaning

1. Demolding: After the concrete reaches the design strength, demold the formwork in the order of non-load-bearing part first and then load-bearing part.

2. Formwork cleaning: after dismantling the formwork, clean up the residual concrete on the surface of the formwork in time for the next use.