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Aluminum Formwork Used for Rapid Construction by Shantanu

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The construction business in India adopts the Technology of Aluminum Formwork.

The Aluminum Formwork System is a system for forming the cast-in-place concrete structure for a building. It is also a system for scheduling and controlling the work of other construction trades such as steel reinforcement, concrete placement, and mechanical and electrical trades.

The Formwork System of aluminum forms has been used in the construction of thousands of residential units in both low rise and high rise buildings. It has been proven to be very successful in the construction of mass housing projects in various parts of the world. It is fast, simple, adaptable and very cost effective.

This is a unique system because it forms all of the concrete in a building including Columns, Beams, Walls, Floor Slabs, Stair Case, Shafts, Window Hoods, Balconies, Lift Area and most of the decorative features in exact accordance with the architectâ€™s design. Unlike other construction systems, the aluminum forms can be erected by unskilled/semi-skilled labours and without the installation of hoisting cranes, as 99% of the equipments are made of hard aluminum, and only 1% comprises of steel. The weighs of each component are kept not more than 30 kilograms which can easily be handled by a single worker. The panels and other sections are secured and fixed by steel pins and wedges with spacer ties and can be assembled by a simple hammer. This eliminates the need for skilled workers.

Most engineering systems comprised of two distinct parts: the hardware and the software. The hardware consists of hundreds of standard pieces of formwork equipment, manufactured to fine tolerances. The majority of the equipment comprises panel sections while the rest includes vertical and horizontal corner sections, bulkheads and special floor slab beams that can be dismantled without disturbing the props supporting the floor slab concrete.

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In India, the major market is been captured by mivan system. Other than MIVAN, Mascon Systems is the nearest competitor for the Construction business in India.

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Shantanu - About Author:
Blogs on Construction Technology, Equipments.
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