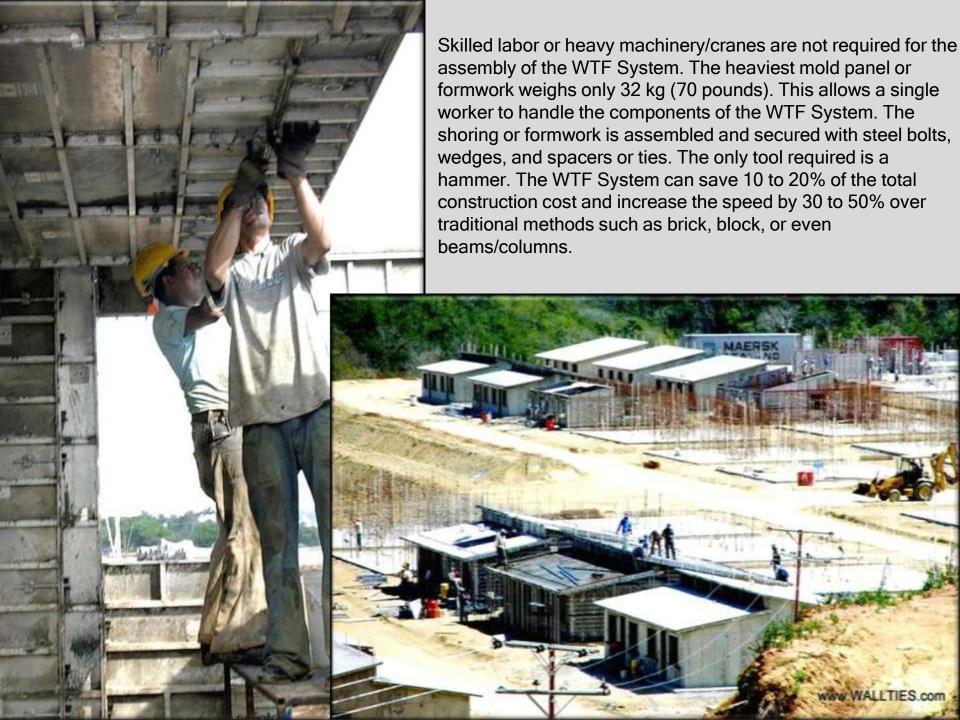
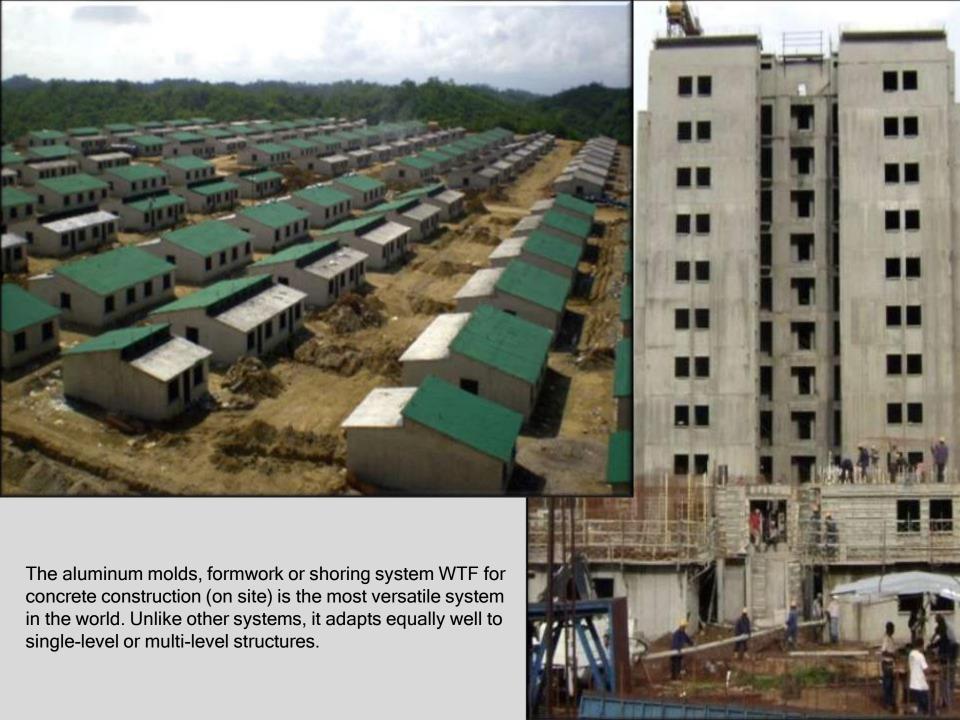
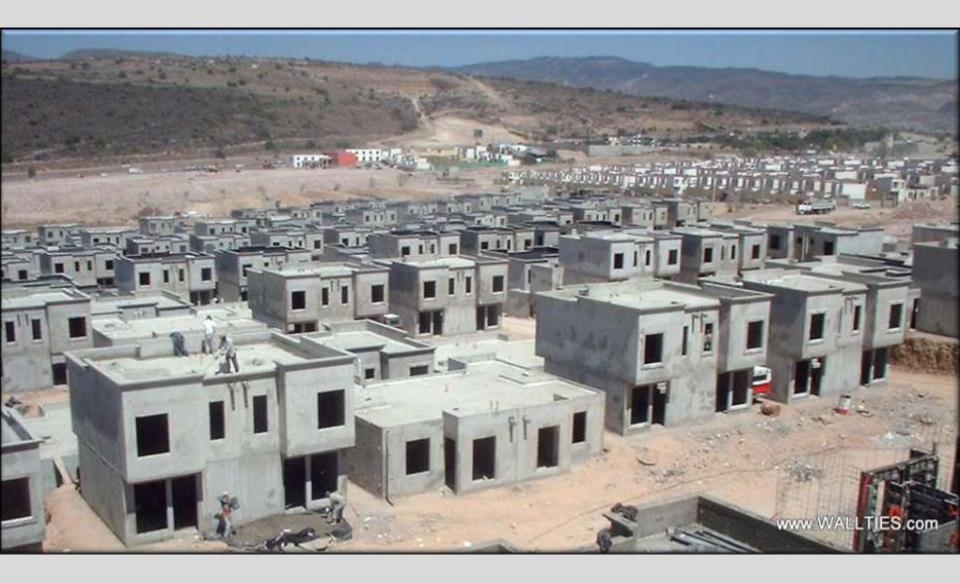


The WTF System of molds, shoring, and formwork (manufactured by Wall-Ties & Forms, Inc.) is unique and stands out because all of the components in the structure, such as walls, foundations, columns, beams, stairs, window moldings, balconies, and decorative details are molded and built monolithically, precisely meeting the architectural design. No other system can match the flexibility of the WTF Formwork System in handling all design conditions.



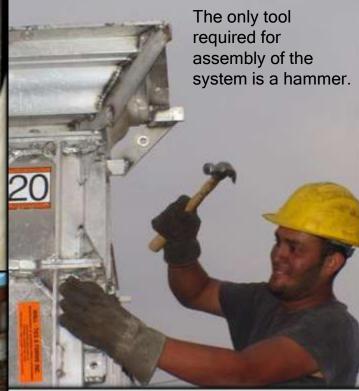


The WTF system is specifically designed to allow for the fast construction of multi-unit projects. The WTF system is on a daily cycle and allows for maximum productivity of one housing unit per mold per day.



Example: 8,500 duplex or paired unit project, with one and two levels, in Mexico.







This aluminum molds, formwork or shoring system WTF is ideal for unskilled labor, achieving the highest production rates. Each component is light enough for a worker to maneuver without the need for heavy equipment for load handling.



The WTF formwork or shoring system allows the builder to monolithically and simultaneously construct most of the structural components of the building. This includes structural and non-structural elements, as well as architectural and decorative details.



The forms for this structure include all structural, non-structural, and architectural elements. Architectural details include arches and curved elements, decorative columns, sloping concrete roofs, and rain gutters poured directly into ornamental moldings.





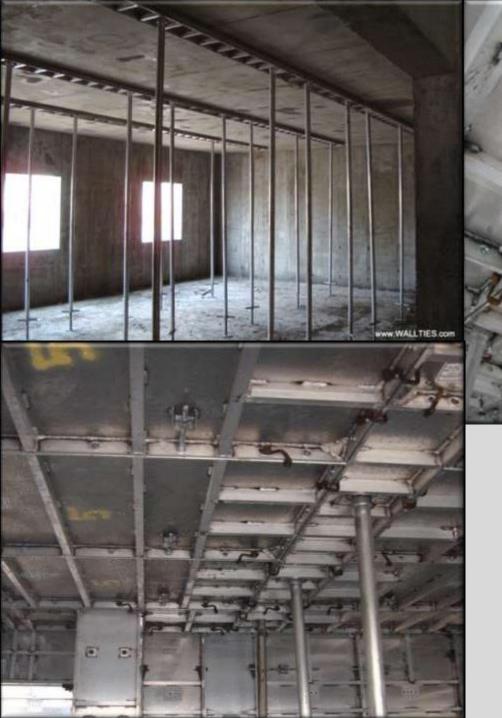


By pouring or casting all structural elements, a savings of 10 to 20% can be achieved over traditional methods.



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elements, construction speed can be increased by 30 to 50% over traditional methods. These benefits are achieved thanks to the Formwork or Shoring System which already incorporates and facilitates finishes on the structure and on concrete surfaces.





One of the most important technical features of the system that allows for high construction speed is the special central support system for slab shoring. This allows for the removal of the roof formwork panels while leaving in place the props and central support beam of the fresh slab. The area of the demolded slab can be reshored and the removed roof panels can be immediately reused.

The precision of the WTF Formwork System allows door and window frames to be ordered in quantities of the same size and installed on site without much variation in dimensions or sizes.







The concrete surface produced with the WTF Formwork System allows for high-quality wall finishes without the need for excessive plastering.







A set of pre-assembled molds for quality control inspection at the factory.

The WTF System of Molds, Formwork, and Shoring is manufactured with high-quality, hard-alloy aluminum raw materials and the best robotic manufacturing and welding technology. This allows for a lifespan of over 2000 uses.



Typically, the lifespan of the WTF Formwork System exceeds the construction time of the initial project and can be used on a new project. The modular design of the system allows for 70-90% of the components of the Formwork and Shoring system to be easily adapted to new projects.



From foundations to multi-level structures, they can be observed in the following illustrations that chronologically describe the accelerated construction process of the WTF Mold, Formwork, or Shuttering System.









The steel reinforcement of the walls is placed according to local building codes.







Once the wall forms are in place, the slab formwork can begin. The slab formwork, like the mold walls, is manually assembled and preferably started in a corner.









After finishing the slab formwork, the steel and electrical work are installed in preparation for pouring the concrete.



When all the preparations are complete, the concrete is poured monolithically into the walls and slab. Concrete pouring is usually done with a concrete pump, but the method can vary depending on what is available in the market. This can be stationary pumps, crane tanks, or even manual containers.







The WTF formwork system is removed the following day to start a new cycle.



In multi-level structures, attached scaffolding is used. The scaffolding not only supports the weight of the workers, but the "TEE" are also designed as scaffold support measures and as a base support for the exterior panels of the upper floor wall.









For projects developed in regions with extreme climates, the WTF formwork system works exactly the same but with the direct incorporation of thermal insulation, which is placed simultaneously with the concrete on the exterior walls and roof.

The insulation foam is installed between the formwork spacers before placing the external formwork.





After the concrete is poured and cured, the formwork is removed, leaving the insulation foam permanently adhered to the concrete.













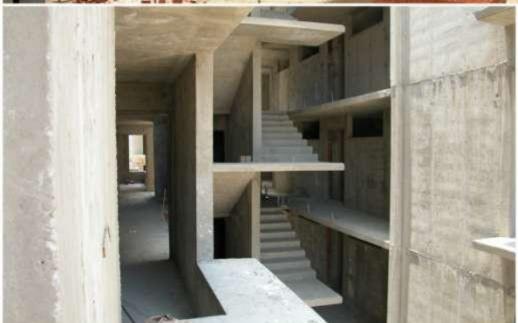


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