Diamond Development Group StrucTech Technology Systems Synopsis





StrucTech System of Rapid Constrution Technology



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In 1991, there was a global demand for the construction of 28 million low to medium income residential housing units. Today, that demand has increased to more than 55 million units. With the exception of healthcare and food, the need for shelter is the largest single commodity that exists in the World today. Why then, has this need not been addressed? The simple answer is that the conventional construction of large scale residential communities is a complex undertaking that requires financing, resources and skilled labor that is not economically feasible at the low end buying level. If this is true, then how will society provide meaningful shelter for this growing population? After many years of research, which included personal interviews with government and banking industry officials in the major underdeveloped areas of the World, we began the process of reengineering residential community development so that a system could be established that would meet this need. Our goal was to develop a uniform system for the global construction of residential communities which would result in the completion of one residential unit per day per crew while using local materials and labor.

The conclusion of this effort is a program that is designed to improve the quality of living for limited income families, and results in a master planned community developed to respond to the cultural and environmental elements specific to a location. The methods employed are a unique blend of conventional construction techniques, production engineering and proprietary technological advancements. All of the skilled tasks normally associated with construction were reverse engineered and new technologies introduced so that they could be consistently produced assembly-line techniques with local non-skilled labor. The usina program is designed to employ the efficiency of module fabrication in a plant environment, and the quality which is inherent with on site conventional construction. The final product is a monolithic, sustainable, reinforced concrete residence which is stronger, more energy efficient, more durable and more "green" than the typical American home built today, at approximately forty-five percent of the construction cost.

We named the system StrucTech 2010 ... a snap together technology utilizing concrete fabrics, BIM Engineering and a whole new way to think about solving one of the world's greatest issues.