SUSTAINABLE HOUSING

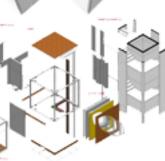


GREEN HOUSING

New Orleans, Louisiana 2007

Frederic Schwartz architects, NYMaximum density is achieved with a 12-unit shotgunLOFT typology. The building is lifted four feet off the ground for ventilation and positive airflow. In contrast to the riverfront elevation, the northeast garden-facing elevation is a vertical stacking of porches with shared stairways covered by lush vines that utilize storm water runoff. The porches are outfitted with a dual-protection shuttering system for the hurricane season and southern shading. http://www.schwartzarch.com/projects/global_green_housing.html





T-TREE: A TOWERING COMMUNITY OF SUSTAIN-**ABLE RESIDENCES** Designed By: Adil Azhiyev, Ivan Kudryavtsev



The basis of the apartment is a cubic shaped living module with 3m sides.

Learning Activity: Reflections on Housing, Task: Identifying critical concepts, Student: Annelore Meynen, School: Arquitectura La Salle

MARKETABILITY ARKETABILITY ENERGY EFFICIENCY	
HEALTH AT LONG HEALTH	COMFORT Open loft living space and efficient floor plans. Multiple outdoor spaces (private & semi-private) as well as a communal areas. HEALTH Regional, renewable and recycled materials. Green environment, community garden.
The shotgunLOFT studios and 1, 2 and 3 bedroom units combine open loft living space with pre-fabricated bathroom and kitchen cores. They use regional, renewable and recycled materials (telephone poles, southern pine, bamboo screens and floors, recycled wood wall panels) and passive design (through-unit and chimney-effect cooling, deep porch shading, PV-panel shaded roofs) to reduce energy demand for heating and cooling (which helps preserve natural resources and reduce greenhouse gas emissions).	ENERGY EFFICIENCY Passive design (through-unit and chimney-effect cooling, deep porch shading, PV-panel shaded roofs) to reduce energy demand for heating and cooling. Efficient building envelope in order to achieve a low-energy consumption construction.
Windows, waterproofing, insulation, air barriers and finishes are prefabricated off-site to insure a tight, efficient building envelope. Green-roof water collection feeds a community garden that includes a bio-retention pond for treatment of grey water.	Ventilation and positive airflow.
NYMaximum density is achieved with a 12-unit shotgunLOFT typology. The building is lifted four feet off the ground for ventilation and positive airflow. In contrast to the riverfront elevation, the northeast garden-facing elevation is a vertical stacking of porches with shared stairways covered by lush vines that utilize storm water runoff. The porches are outfitted with a dual-protection shuttering system for the hurricane season and southern shading.	DURABILITY Dual-protection shuttering system for the hurricane season and southern shading.
	AFFORDABILITY Low construction costs COMFORT For people with disabilities, entrance in each floor will be aligned with elevator entrance and the size of the modules remains unchanged.
The whole visual image of this building is constructed with two interwoven design principles. The first is supporting a core – the central block that contains the elevator and the stairs. The second is the communication module. As the trunk of the tree.	Living modules with 3 m sides could be too small for people to live in.
The basis of the apartment is a cubic shaped living module with 3m sides. At the request of the opportunities and possible variations of easy assembling, replacing, or adding extra module depending of a family needs, made in recycled materials (wood, plastic, glass, aluminium), each prefabricated module consist in build-in facilities, furniture, toilets, shower, kitchen etc. depending on function of each cell, also wind mills are additional modules on the top, produce energy which cover 25% of required energy.	HEALTH Green environment. They use recycled materials.
The module remains unchanged, which makes assembling easier. For people with disabilities, entrance in each floor will be aligned with elevator entrance. http://www.re-burbia.com/2009/08/05/t-trees-social-housing/	ENERGY EFFICIENCY Wind mills on the top of the building who produce 25% of the required energy.
"The construction, design, location and mix of tenure and type of housing can all be critical to the long term quality of life for the communities who will live there, includ- ing energy use and environmental impact" Sustainable housing: principles & practice, Brian Edwards,D. Turrent	DURABILITY Adding extra modules is possible. the modules are prefabri- cated out of recycled materials such as wood, plastic, glass and aluminium.