



Website: <http://www.ihintl.com> or



▲ **Hi-Tech's** Show Home #1 - Luxembourg
Exterior View

flexible in its ability to accommodate design innovation and style preferences. The **Hi-Tech** System easily allows features like vaulted ceilings, cantilevered structures and cutouts.

Whether for single or multiple residential units, industrial or commercial structures, **Hi-Tech's** approach provides architectural diversity as boundless as the designer's imagination. The computerized **Hi-Tech** System substantially increases access to affordable housing.

We invite you to visit our 15+ acre Tilbury Island Industrial Area site in Delta, British Columbia, where the first fully-automated **Hi-Tech** factory has been built. The site is strategically located for easy access to raw material, supplies and all forms of transportation (rail, road, highway, airport, truck ferries and ocean port shipping).

Hi-Tech's construction system is beyond the state of the art. Supplying customization, strength, flexibility, accuracy and economy, **Hi-Tech** is positioned to revolutionize and computerize the industry in the 21st Century. With the ability to produce homes at a cost savings of approximately 20% compared to conventional wood-framed housing, **Hi-Tech** is on the verge of producing a quantum leap in economies of scale attractive to the world market.

Expansion! Growth! Modernization! As we approach a new century, developers worldwide are under constant pressure to respond to growing marketplace demands for new construction. There is an expectation that structures should be affordable, safe, and functional. There is a recognition that this demand places a strain on the world's natural resources, contributing to global warming and increasing environmental forces. Through the strength of a supply chain combined with the innovation of technology, **Hi-Tech** is meeting the challenges of tomorrow's world.

Most prefabricated structures are restricted to a limited set of physical layouts and aesthetic options. **Hi-Tech's** customized modular System



▲ **Hi-Tech's** Show Home #1 - Luxembourg
Interior View of Living Area

program developed by **Hi-Tech's** founders. The result is a structurally superior, environmentally more sensitive and less costly product than traditional site or pre-fabricated construction systems.

Hi-Tech's steel framed panels are composed of steel reinforced concrete and rigid foam insulation, providing frame strength, built-in form work and mechanical interlocks.

Steel reinforcing cables within the panels are connected to the steel frame and tensioned to provide diagonal stiffness. A combination of special flanges and steel pins connect the panels at corner points in a highly ductile manner. Even without the pins, the structure is statically stable and the pins are present only for dynamic stability.

The rigid foam for each panel is machined using laser-based computer equipment directed by the above-mentioned sophisticated design software. The foam is used as the form for each panel during construction and becomes the insulation in the completed panel. Foam density and thickness can be adjusted to conform to local needs for insulation.

The laser-machined insulating foam panel insert allows for precision placement of the steel frame elements such as windows, doors and service runs.

The inside layer of the wall panel, and each side of the floor and interior wall panels, are finished with concrete. The concrete bonds to the other panel elements to integrate the materials, add to the strength of the panel, and provide mass and durability to the completed building. A wide range of finishes can be used on the panels, including brick, aluminum or wood siding and acrylic finishes.

Hi-Tech's primary objective is to develop insulated panelized concrete buildings that are effective, but are flexible enough to be configured to utilize a wide variety of architectural designs. Hi-Tech has gone one step further to create a product that is wind, earthquake and fire resistant, outstanding thermal and sound insulation.

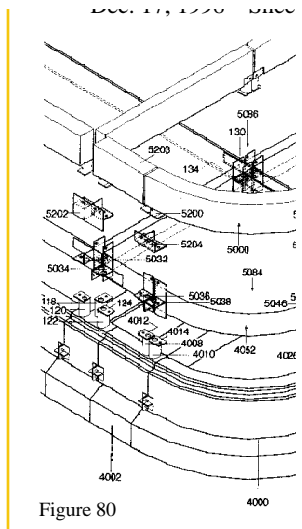
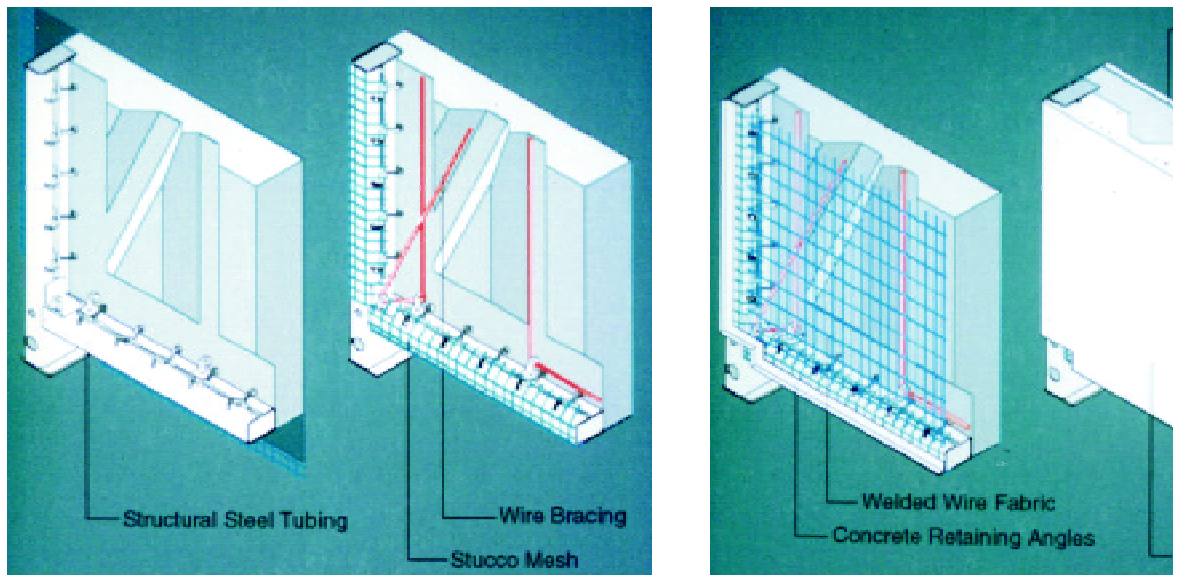


Figure 80

▲ IHI curved insulated floor panels and walls (for clarity and thermal breaks are



▲ One of **Hi-Tech's** Exterior Panels showing various structural, architectural, thermal and acoustical components.

A system, the computer reproduces a structural three-dimensional representation of optimize and customize the shape and sizes of **Hi-Tech** panels, taking into consideration transportation and budget constraints. The computer then directs robotic arms and laser cutters and fit steel frames exact to the drawings. The pre-formed rigid insulation and fabricated steel to form individual panel molds, eliminating all design constraints. This superior patented process the high costs associated with disposable molds. The steel-frame walls and floors are fire-proofed with insulated lightweight concrete. Together, the **Hi-Tech** elements become exceptional and capable of withstanding all forces of nature. The walls, floors and roof are fitted together with joints that allow for quick assembly and add dynamic strength unmatched by any wood-frame

The international market favors investment in concrete housing over wood-frame, due to its superior structural life. The **Hi-Tech** System will deliver this superior product at a projected 30 percent cost savings over conventional wood-frame housing. Cost savings are predicted to be realized through the elimination of redundant raw materials, construction waste, and significant reductions in construction costs. The **Hi-Tech** home is fast to manufacture and assemble: only 120 man-hours are required to manufacture a 3,000 square foot unit in the factory and 100 man-hours are required to erect it. A rapid assembly process was demonstrated in October, 1994 in Luxembourg where a 2,200 square foot **Hi-Tech** home was constructed. This impressive structure remains at its European site for partner or investor to visit.

The above rapid assembly process was re-demonstrated in March, April and August, 1998 at a 10,000 square foot manufacturing and office facility in Delta, British Columbia which was completed in 1998. This site and **Hi-Tech's** Research and Development facility in Surrey, British Columbia are available for viewing by appointment (for further details, please visit our website at <http://www.ihitech.com>).



▲ IHI Factory/Office #1, Delta, B.C. Canada

- Up to 50% increased size for the same budget.
- Shorter building times can reduce financing overheads.
- Superior structural design and finishing.
- All building components - floors, walls, and roof are panelized.
- Optional factory-manufactured foundations are easily connected together with flanges and then interlocked with the main structure.
- Both internal and external panel surfaces are factory-finished and pre-serviced with electrical, plumbing and mechanical systems.
- Interiors can be painted, covered fabric or leather, clad with stone, w
- Panels utilize materials readily available in developed areas of the world.
- On-site erection is independent of site conditions.
- No structural wood employed, save for roof trusses and forests.
- **Hi-Tech** panels are impervious to rodents, termites and other insects
- Floor panels are designed to form a tight seal with the other panels for compact and easy transportation.

RECENT DEVELOPMENTS

Hi-Tech's 77,000 square foot manufacturing and office facility in Delta, British Columbia was completed in mid-August and will be ready for commercial production this year. In 1999, this facility was fully automated and roboticized so that the patented technology can be implemented to its full capacity, three production lines will be operational. The factory will dedicate one third of its capacity to domestic orders, one third to international contracts, and one third to the production of **Hi-Tech** for joint venture factories overseas.

JOINT VENTURES

Hi-Tech is targeting markets on five continents where strength, cost and immediacy are the primary factors. To successfully penetrate these markets, **Hi-Tech** has entered into multiple joint venture agreements. Under the fixed terms of these agreements, **Hi-Tech's** partners will operate **Hi-Tech** manufacturing facilities, and will market the **Hi-Tech** System within their territory. **Hi-Tech** provides the patented technology to manufacture these buildings in a controlled environment. **Hi-Tech** retains full responsibility for quality control, in accordance with **Hi-Tech's** specifications.

Currently, **Hi-Tech** has the following joint venture agreements in place:

Territory	Joint Venture Partner
Philippines	Pohangco Inc.
Luxembourg and Surrounding Region	Veda Consult S.A.
U.A.E., Oman, Qatar and Bahrain	Trade Circle Sarl
Egypt	Trade Circle Sarl
Costa Rica, Panama and Nicaragua	Edificaciones del Futuro
Florida/The Bahamas/Georgia/Texas/California	Hi-Tech America Development Corp.
Ontario, Canada	Hi-Tech Canada Development Corp.

Eight additional joint venture agreements are pending including Germany, France and the U.S. announced soon. We invite you to visit our website at <http://www.ihintl.com> or watch for our current announcements.