Habitat: Exciting Concept, Flawed Execution: Landmark at Expo Breaks All Rules of Construction

By ADA LOUISE HUXTABLE Special to The New York Times

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# Landmark at Expo Breaks All Rules of Construction

### By ADA. LOUISE HUXTABLE

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MONTREAL, April 29-One of the first things a visitor may see at Habitat, the dramatic housing demonstration that is the permanent symbol and landmark of Expo 67, is a mailman walking along the street. But there is a difference from the ordinary street.

The street is a skystreet and it is 10 stories in the air. That is just one small sign of the fact that everything is different about the handsome and controversial architectural experiment sponsored and paid for by the Canadian Government and built by a 28-year-old Israeli archi-

tect, Moshe Safdie.
It took a lot of negotiation with the city to get that mail-man up in the air instead of on the ground. Negotiation is go-ing on to have the utility streets under the skystreets—
also up the air—treated as municipal utilities, as they are in ordinary underground installations of suburban develop-

#### Every Rule Is Broken

Just about every housing and building rule, precedent, practice, custom and convention is broken by Habitat. This includes design, engineering, construction, trade union operation and the way people live. There have been two results. One snowballing costs and technical problems. The other is a significant and stunning exercise in experimental housing that is also the most important construction at Expo, where architectural excellence abounds.

What Habitat is, to the eye, is a Mediterranean cluster of pyramided and jutting boxes that form one-story and two-story houses so that the roof of one box makes the garden terrace of another. As the Montreal weather warms (they say there are two seasons—winter and July), the irregular, geometric mass will be softened by planting on all roof levels, centrally irrigated, and by masses of flowering shrubs on the ground.

into place.

The design is based on the



#### Habitat was designed and built by Moshe Safdie of Israel for the Canadian Government

idea that, in an age of perfected be standardized and inexpen- basis of an assumed unit weight

looks pictur- implies. actually the As it What merely looks esque here is prefabricated, system. The importance of the project of 1,000 units. concept for housing design and

production cannot be overstated. At Habitat, the staggered elements insure maximum privacy. Instead of a filing-case slab of apartments, each dwellslab of apartments, each dwell— With the balance, only 158 ing is a one-story or two-story units could be built. What was house of two or more boxes, meant to be mass produced is with three to four exposures. Each has its outdoor area.

Three stacked cores are around three elevated towers to a height of 12 floors. Plastic-

#### \$11.5-Million Budgeted

For \$700 a month for the duration of Expo, with rents reduced after that, 158 tenants ity. Habitate, should, of course,

industrial techniques and critical sive. That is the whole idea proved inadequate for the final housing shortages, there should The design is meant for assemsize of the boxes and they had be a housing product based on bly-line production on a large industrial, rather than hand-scale, with all of the skill, efficiency and economy that this ings. A preassembly process

variety that can stem from the sixth of its originally projected sion was unrealizable because combinations possible with a size and enormously expensive. of snags in tight schedules. industrialized It was planned as a \$42-million The budget was subsequently cut to

machinery.

virtually handcrafted sample, and costs have soared to more than \$100,000 a unit.

Once the Federal and provincial governments gave the gocovered pedestrian streets are ahead and the site production on the 6th and 10th floor levels. was set up. Expo and Mr. Saf-In addition to aerial streets, die's firm and the contractors there are aerial playgrounds.

\$11.5-Million Budgeted

\$12 days from the first box to the last.

## Result Is an Experiment

But Habitat is much more (many are concerns rather than on a project that should have. Whatever happens, Habitat than meets the eye. Each of families, since units have been had at least two years of pre- Whatever happens, Habitat these boxes is a prefabricated rented as corporate hospitality liminary analysis and experi-will go down in history as a 80-ton, box-like concrete unit suites during the fair) can en- ment, the job was done without flawed, but extremely important and is cast senarately— joy striking, water-surrounded proven production methods, ant, 20th-century exercise in the surrounded proven production methods, and with- housing design. Montreal has a surrounded proven production methods are surrounded by the surrounded proven production methods. Working on Expo's schedule market by the manufacturer for —the roof is cast separately—joy striking, water-surrounded proven production methods, ant, 20th-century exercise in manufactured and assembled on views of Expo and Montreal, in without test drawing and with-housing design. Montreal has the site. Some elements, such as one of the most attractive liv-out previously developed tech-an international landmark and Fiberglas bathrooms, are facing experiences of our time. The niques. The on-site prefabrica- eventually 158 urban families tory-made and assembled in the structural system creates into was purely trial-and-error, will live just a little bit better boxes before they are hoisted terior spaces of unusual amenas was the whole construction than some of the rest of us. process.

A crane bought early on the of the future is in this housing.

that should have been estab-As it stands, Habitat is one-lished with computerized preci-Full assembly on the ground became impossible.

budget was subsequently cut to came impossible.

\$11.5-million.

"Fifty per cent of this could have been foreseen with enough time," says Mr. Safdie. "Fifty and machinery.

"Fifty per cent of this could have been could not have been per cent could not have been time." foreseen even if Leonardo da

Vinci were doing it."

The result is an experiment, not a final demonstration. The costs and errors are those of a prototype model. It is pointless to apply market values or conventional price tags.

The pertinent questions are what has been learned and what has been achieved. Habitat is striking architecture, but it is just as important that the prefabricated bathrooms, which cost \$1,400 a unit to develop, are already being placed on the

Both the puzzle and the promise

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