



Alpha Thermal Home in Beeton, Ontario is a compact, energy-efficient and economical rural house. Heating bills average \$130 a year.

ning procedures, improve construction techniques and enhance quality in housing design.

Over the past 25 years, a broad range of activities has been undertaken by the council, including the annual awards for residential design, exhibits, publications, workshops, seminars, lectures, tours, films and educational programs. The council also sponsors research and competition among architectural students.

Following are some of this year's award-winning houses:

— **The Sixth Estate**, Vancouver, British Columbia. Architect: Roger Hughes.

Derelict warehouse buildings have been restored to make 48 high-quality housing units and commercial office

space. Townhouse units are of various sizes on two or four levels with two or more bedrooms, maximum sun penetration and two covered parking spaces *per* unit. Plans also incorporate circular metal stairways and atriums.

— **Alpha Thermal Home**, Beeton, Ontario. Architect: John Hix, Toronto.

This energy-efficient and economical farm house is situated within a protected micro-climate on a southern slope shielded to the west and north by screens of pine and thicket. The two-storey greenhouse glazing provides commanding views and maximum solar exposure for plants, warmth, and recreation.

The house is compact, well-insulated, and has shuttered side windows. Sun-

warmed greenhouse air is fanned to and absorbed by the masonry-earth below. Rising by natural convection, it keeps the greenhouse temperature above freezing with no extra heat. Operating costs are low: heating bills over two winters showed an average of \$130 a year.

— **Streethouse Duplex**, Calgary, Alberta. Architect: Kenneth V. Nasedkin.

This project is the first design response to a new zoning category which allows the development of two units on a 7.5 metre lot. The intent is to maintain the narrow frontages of inner city neighbourhoods. The most common design for such a narrow frontage is an up/down or back/front duplex but this project demon-



Streethouse Duplex in Calgary, Alberta.



Le Fort de la Montagne, Montreal.



Squirrel Corner, Banff, Alberta.