

FOR IMMEDIATE RELEASE February 10, 2006

ARE BASEMENTS REALLY NECESSARY?

"Basements", says Otto Wyga, a Guelph, Ont. general contractor, "are nothing but trouble", which explains why eight years ago he built his own 1,800-square-foot bungalow on a slab-on-grade, radiant-heated floor system just six inches down on his property.

The tradeoff for sacrificing the basement, he says, is that, among other things, the Legalett system saves money on the cost of construction, is more energy efficient, free of mold, mildew, contaminants and odours, and maintains a comfortable temperature.

"It's a simple system, easy to work with, and cheaper than building a basement," he says of Legalett, which means "floating on the land" in Sweden, where it was developed about 30 years ago.

Scott Perry, president of Legalett Inc., based in Long Sault, Ont. and the North American distributor, says the cost saved by not building a basement in a 1,000-square-foot house can cover the cost of a 500-square-foot surface addition, creating "daylight storage" space and many of the other functions normally found in basements.

It is set on a bed of gravel covered by six inches of polystyrene insulation. The operative part is a five to eight-inch concrete slab embedded with two or four-inch hot air pipes and an electric or water coil which produce warm floors and even temperatures. No need for a furnace. All that's needed is space for a hot water heater which is required anyway, nor is there any wasted energy, says Wyga.

His house incorporates walls of insulated concrete forms, which he says creates a total insulation package and a "phenomenal" comfort level. While it is possible to add air conditioning he says he doesn't have it. "The concrete in the walls cools the house down late afternoon in the summer in about 20 minutes." Besides, his house has large windows to catch breezes.

Perry also notes that in the absence of a basement there are no expensive repairs for leaks in the basement, no risk of flooding from failed sump pumps and therefore no need for insurance for those risks, including for the contractors.

"How many people actually use their basements?" he asks. "People want the outdoors and sunlight."

And since there is no furnace to break down or replace the only repair would be a fan and heat exchanger, which are easy to access and inexpensive to replace.

Charlene Zandbelt, an architectural technologist with Tucker Design Company Ltd., Winchester (near Ottawa), says her firm has designed a few homes with Legalett systems for couples already retired or nearing retirement. They prefer not to climb stairs.

"You don't have to worry about footings or frost protection in the basement," she says. "Legalett footings are engineered to maintain a steady temperature. There is no need for a radiant-heated second floor because the main floor generates enough warmth, which of course rises.

Chuck Vrana, a retired airline pilot, built a 2,300-square-foot bungalow near Cornwall with the Legalett system and has lived in it since March 2004. In his case, it is a split level version, with a one-storey front elevation at grade and rear elevation down four feet. "Half the first floor is used for living space and half for storage, mechanical systems and a workshop," he says.

Perry says Legalett has become particularly popular in Sweden since 1990 and is selling well in other European countries and in Japan. In North America we have doubled our volume each for the past 3 years.

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