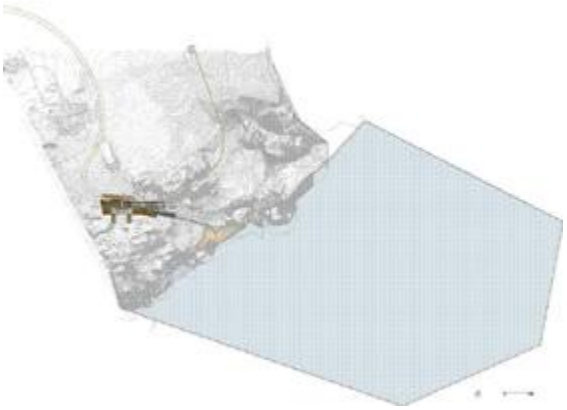
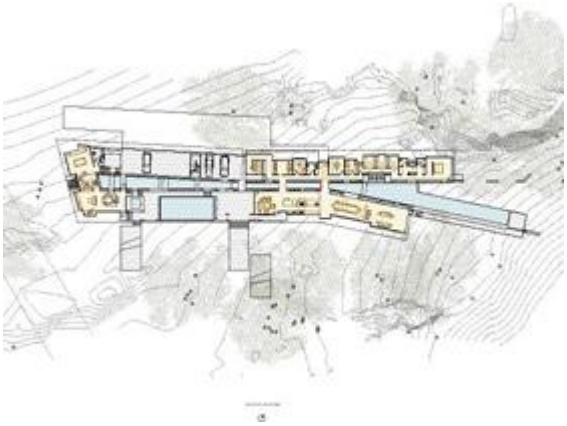
AWARD WINNING HOUSE ON VANCOUVER ISLAND

May - July 2005

SUPERTHERM ® Multi~Ceramic insulation coating as a thermal barrier over radiant heated walls





Water is drawn from the ocean, through a boiler \ demineralization plant, into the swimming pool, through the "canyon" running through the middle of the house and then back out to the ocean.



There is radiant heat running through the 10" concrete walls of the "canyon".


Working in conjunction with the architect, mechanical engineer and building envelope consultant, the desired insulation was achieved using a hybrid system of 10 mils DFT of SUPERTHERM ® (against CONDUCTION only without the effects of RADIATION and CONVECTION) coated directly onto the concrete plus 2" of rigid insulation over top.

The fact that SUPERTHERM ® is impervious to moisture once cured is an added benefit in this particular application, especially in reducing efflorescence. The rigid insulation is to be protected with a membrane and then the final finish will be a mirrored effect.

This oceanfront property took four years to design and construct, and was finally completed in 2006, earning a National Canadian Architect Award. The home spans 8,300 square feet and includes six bedrooms and six full baths, though the soaring glass walls that separate the living and sleeping areas, called the "Canyon River," remain its most notable feature

PROJECT CREDITS :
IDA ARCHITECTURE \ Marko Simcic Architect
EARTH TECH INC. - Mechanical Consulting Engineers
Bill Hustler Construction Ltd. - General Contractor
Pro-tect Painting \ Victor Reid - Certified Applicator \ Contractor