

# Shantz Residence

Saskatoon, Saskatchewan, Canada



## Homeowner combines Advantage ICF System® and Elemix® concrete additive in environmentally friendly home

When designing his new home, Troy Shantz looked at materials that would minimize the home's environmental impact and save money on utility bills for years to come. To reduce heating and cooling loads, he chose the Advantage ICF System® for the below grade walls of the home.

"We wanted to build a home with more sustainable materials and a higher insulation value," he said. "With ICFs, you get good insulation value and the opportunity to finish the interior much quicker than building interior 2x4 walls and adding insulation."

Shantz went with a high efficiency hydronic heating system on both the first and second floor of the home. With the second floor trusses not designed to withstand the significant weight of a conventional concrete floor, Shantz opted for concrete with Elemix® concrete additive. Elemix concrete additive is a unique polymeric sphere that results in lighter weight concrete that resists cracking and reduces construction costs.

Working with Plasti-Fab and Inland Concrete, Shantz was able to get the lightweight Elemix additive mixture poured for the second floor of his home. Concrete designed with the Elemix additive contains less aggregate than conventional concrete, meaning homeowners like Shantz can construct their homes using fewer natural resources. Elemix additive also improves the thermal performance of concrete for greater energy efficiency.



"The Elemix additive was easy to work with and has great finishing qualities," said Harry Janzen at Inland Concrete.



*Elemix additive (white polymeric spheres) distributes uniformly in concrete to reduce weight*

"Elemix concrete additive has the potential to save homeowners and builders a lot of money by reducing the amount of structure needed to support the concrete," said Wade McClelland, the Plasti-Fab Representative that worked with Shantz on the project. "I'm glad we were able to help Troy get a floor that met his needs and will be more durable for the life of his home."