

Hotel Complex



ADVANTAGE WALLSYSTEMS
Insulating Concrete Forming (ICF) System

90,000
SQUARE FT.
HOTEL COMPLEX

11.25" R-23.2
ADVANTAGE WALLSYSTEMS EFFECTIVE INSULATION VALUE

55
WALL SOUND TRANSMISSION CLASS

“This flagship hotel complex is about one kilometre from the south runway of Calgary’s international airport. It had to be built during the winter months. It had to have a high sound transmission rating, energy efficiency, and be everlasting and durable to preserve asset values and reduce long-term maintenance costs.”

ICF CHOSEN OVER 2X6 WALLS

Intense analysis went into the design and selection of the building components for this four-storey Marriott Residence Inn which consists of 120 high-quality suites, conference rooms, indoor pool, fitness centre, sport courts, kitchen and dining facilities.

After reviewing Plasti-Fab’s product specifications for the Advantage ICF system, the owners, Durango Trails Inns Hotel, chose to build with Advantage’s single-step, 11.25 inch ICF system, instead of traditional 2x6 inch wall construction.

Although the ICF budget proved to be 1.4 per cent more than the comparative budget for 2x6 construction, the Advantage ICF was chosen as the building system, primarily because it yields much higher sound ratings and energy efficiencies.

“The proximity to the airport and the sense that the ICF construction would add to the sound attenuation was certainly a factor in helping make the decision to go with ICF,” the owner says.

“Structurally the ICF construction makes a lot of sense,” the owner adds. “The building has a very solid feel to it.”

During construction, temporary heating costs were lower than with conventional construction. In addition, there were reductions in the cost of the heating ventilation and air conditioning components.

CRUCIAL GUIDANCE PROVIDED

The contractors, PCL Maxam, A Joint Venture, were especially appreciative of the support provided by Advantage. When the hotel was completed, PCL wrote: “Because the ICF block was a new product for us, your guidance was crucial to the crews learning to install the product properly. You were there when we needed information and training, and your cooperation with the consultants was appreciated.”

Subsequent to the completion of the project, PCL initiated an in-house presentation on the Advantage ICF construction experience for their “Excellence in Construction” program. The presentation will be given by a superintendent and a project engineer. As one superintendent has commented, “I would build my own house with this ICF system.”

