

INTEGRASPEC®

"The User Friendly ICF"

FEATURE PROJECT



Project: Dobaj residence

Ottawa, Ontario

ICF Professional: Stéphane Lortie, Brian Breton

Ottawa, Ontario

ICF Distributor: EMM Group

Ottawa, Ontario

Features: 4500 ft² home, IntegraSpec® walls to the roof, concrete first floor, concrete overlay on second floor, and radiant heat installed on all floors. An interior brick ledge was used as additional support for the second floor open web joists. The exterior of the home is stucco which is well suited for IntegraSpec® ICF construction as it is simply applied directly to the IntegraSpec® system. Construction was especially complicated due to poor soil conditions. The footings were sized at 4.5 feet, and construction was started at the beginning of October. EMM Group still managed to complete all concrete work by December. IntegraSpec® advantage - the insulation also helps to protect the concrete from freezing when placement is done in below zero temperatures.

Benefits: Insulated thermal mass has the benefit of moderating the effect of extreme weather. Even when it is -35 degrees C outdoors with wind, indoors it feels no different than another (warmer) day. Thermal mass tempers the fluctuation between inside temperatures and outside temperatures; it is a gradual change. Insulated thermal mass, combined with radiant heat and geexchange systems are a futuristic solution to energy efficiency demands.

"Now that the house is occupied it is amazing how comfortable the house feels. As it is not yet common, many people don't realize how much more comfortable radiant heat and insulated thermal mass (exterior walls, and all of the floors) can have upon a home. It has happened that there was no heat in the building in the winter, and in 24 hours the house only lost 1-2 degrees Celsius. A regular typical wooden home would have lost a lot more heat in that same period of time!"

-Tom Dobaj, Owner

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