

Poultry Growing Facility



This state-of-the-art, high-tech, Poultry Growing Facility is the first of its kind in the Ontario region and the flagship for Kennydale Poultry. The temperature fluctuations in this area range from 44°C to -34°C [111°F to -29°F] and keeping the inhabitants warm, dry and comfortable was paramount to the profitability of the business.

The owner, Rick Kenny of Kennydale Poultry, was convinced that the Quad-Lock ICF system was the smart choice, *“My heating and cooling costs would be significantly lowered, the interior climate is consistently controlled, the maintenance on this building will be minimal which will save me in cost and labour going forward. This project had to be completed on time as I had stock arriving on a specific fixed date and with Quad-Lock’s ease and speed of installation, this was accomplished.”*



Why Quad-Lock was Chosen

Being the first ICF poultry facility in the industry, this project has generated a lot of interest and the agricultural community in particular is looking at all the benefits that ICF has to offer for future building standards, including:

- ▶ Reduced heating & cooling costs
- ▶ Consistent interior temperature
- ▶ Lower ongoing maintenance costs
- ▶ Mold and insect/rodent resistant
- ▶ Significantly longer building life span
- ▶ Faster build time
- ▶ Versatility of the wall configurations

Interesting Facts

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|--------------------------|------------------------|
| Location: | Beachburg, ON |
| Completion Date: | February 2010 |
| Building Size (Total): | 28,000 sqft |
| Quad-Lock Walls: | 8,500 sqft |
| ICF Installation Time: | 18 days |
| Total Construction Time: | 90 days |
| Time Saved using ICFs: | 10 days |
| Wall Bracing: | Reechcraft |
| Exterior: | Ideal Steel |
| Waterproofing: | Quad-Lock Peel & Stick |



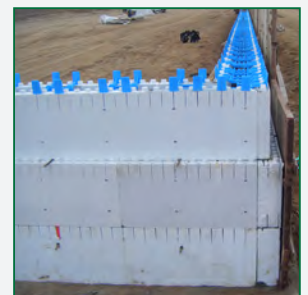
Quad-Lock Project Profile - Poultry Growing Facility

Project Complexities

Besides the expansiveness of the building, the complexity of the project made it more than just a big box. The facility required a 2' concrete interior base that would allow for a tractor & blade system to be used for regular cleaning of the facility. This was done using Quad-Lock's 4¼" panels on the outside of the building and formed within an 11" Duraform (see photo on right). This resulted in the 2' concrete base that they required for the cleaning apparatus (see photo below) but that still had 4¼" of insulation on the outside. The remainder of the building utilized Quad-Lock's R-22 configuration with a 6" concrete cavity.



The project was started in October and weather conditions in this region were primarily wet and cold but with the winter snows and freezing temperatures just around the corner, construction speed was paramount. With the Quad-Lock system being so easy to install and faster than traditional construction, the crew managed to finish the building shell early – 10 days early in fact! This helped out immeasurably with the rest of the construction as once the Quad-Lock ICF wall structure was completed, temporary heating was installed to allow the other trades to get on with their projects in comfort, despite the winter conditions. The ability to work in the comfort of an ICF structure aided in ramping up the time-line and getting this project completed ahead of schedule. With an accelerated completion date and a crew that was happy and comfortable, the budget was kept on track as well.



Challenges Addressed with Quad-Lock

- Using a panel system allowed for the required 2' interior concrete base but still provided 4¼" of insulation on the exterior.
- The tight schedule to complete construction before extreme winter conditions was easily met with the ease and speed of installation.
- Maintaining the building temperature at a consistent level (even in freezing temperatures) for optimum poultry growth rates was easily realized with Quad-Lock's R-22 configuration.

Project Partners

- Owner/Developer - Kennydale Poultry - Rick Kenny
- Architect/Engineer - Jon McIntryne
- GC/Quad-Lock Dealer - GreenR Construct - Robert Regier

