



SOW FARROW TO FINISH FACILITY RUSSIA

DESIGN AND CONSTRUCTION
TEAM

OWNER:
Mortadel Company

CONTRACTOR:
FGC Limited

6,600 Sow Farrow to Finish Project



This sow farrow to finish facility is the 2010 winner of the Canadian Farm Builders Association award for swine facility projects.

Project consists of 11 facilities of 600 sows farrow to finish producing 15,000 pigs each per year for a total production of 165,000 pigs per year.

Each facility is 73,515 sq. ft. with a total production space of 808,665 sq. ft. or approximately 18.5 acres. Construction of the first unit started in the fall of 2005 and by the fall of 2010, eight units were completed. The last three units will be completed during the summer of 2011. Construction was staged to match the production and supply of breeding stock with the initial breeding stock supplied by Canada.

All the manure produced is stored under the facilities with each facility having 2,900,000 gallons of storage capacity for a total storage of 31,900,000 gallons, enough to fertilize approximately 8,000 acres every year. The manure system is designed such that all manure can be removed without agitating or disturbing the interior environment, with little risk of producing any manure gases.

The site will also include a slaughter plant which is currently under construction and a feed mill to be constructed in the summer of 2011.

It will take approximately 45,122 cubic meters of concrete to complete the construction of the 11 facilities. Each facility incorporates a fully automated computer controlled ventilation system interlocked with heating and alarm monitoring. Through the floor pit ventilation is included with the system for all production areas to provide superior air quality.

Energy conservation was an important factor in the design and includes such items as all energy efficient motors, weather hoods on all exhaust fans, hot water floor heating, under floor insulation, under roof insulation to keep incoming air cool, R20 wall insulation, R32 ceiling insulation, and a ventilation system interlocked with the heating.

All production equipment such as ventilation, heating, watering and feeding systems along with flooring and penning was supplied from Canada. A supply of replacement parts to address repairs was also included. It will take approximately 144 containers to ship all the equipment.

