



Precast Buildings – Agriculture

The superior choice for agricultural buildings

Superior Walls are an innovative, precast concrete wall that offers unsurpassed quality, cost efficiency and innovation for building envelopes within the agricultural industry.



Significant cost savings

Superior Wall panels cost 35-45% less than concrete sandwich panels*.



Environmentally sound

Concrete walls have a high insulation value (R-23), use up to two thirds less concrete than an ICF or traditional solid concrete wall and produce less waste.



Strong and durable

The concrete within the wall is strong (55-60 MPa), waterproof and sulfate resistant, so your structure will be built to last.



Rapid, all-year installations

Precast concrete reduces construction time and enables rapid installations – all year long and in all weather conditions.



Consistent, reliable quality

High quality engineered precast concrete is manufactured in a controlled environment so you can build better projects.

*On average, when compared to concrete sandwich panels, depending on geographic location.

Broad applications for agricultural buildings

- Maximum 20 feet clear span in height above grade.
- Walls can be inverted for power trowel, sealed concrete inside the building for easier cleaning and healthier livestock.
- Outer walls can be custom finished with cost-effective tin or customized finished concrete.
- Chicken barns – pullet, layer or broiler barns.
- Pig barns.
- Utility and workshop buildings.



Product Information

Superior Walls foundations feature patented, insulated, precast concrete wall panels that are formed in a factory-controlled setting and delivered to the job site, where the panels are lifted into position with a crane and carefully bolted together and sealed. The walls are custom-designed and built to virtually any architectural style, complete with window and door openings.

- R-23 (RSI 3.38) foam insulation will not sag or mold, unlike typical fiberglass. Additional insulation can be added to achieve higher performance.
- Concrete strength: 55-60 MPa versus typical pour-in-place concrete walls at 23-25 MPa.
- Load strength rated at 7,500 lbs. per linear foot.
- 10 1/4" thick with concrete studs two feet on centre.
- Rebar-reinforced top and bottom bond beam with 2 vertical rebar per stud.
- Airtight with a built-in vapor barrier. No issues with punctures or improper installations.
- Galvanized steel stud facing for easy installation of drywall finishing.
- Canadian Construction Materials Centre (CCMC) approved and ISO 9000 certified.
- Limited 10-year warranty.
- All structures are fully engineered and inspected.



Custom-engineered and manufactured

Consistent quality, expertly engineered to exact customer needs.



Rapidly installed, significant cost savings

Installs in days, not weeks, on a predictable schedule that speeds time to revenue, and reduces traditional construction costs by 35-45%*.



Proven performance

Strength, durability and insulation rating all meet highest industry standards.

*On average, when compared to concrete sandwich panels, depending on geographic location.



Western Canada's exclusive provider for the above grade Superior Walls system of precast concrete walls with over 600 projects completed.

Structural Precast serves Western Canadian residential and commercial builders by providing precast concrete products that are custom manufactured, installed rapidly, and proven to deliver more comfortable and sustainable buildings. Based in Calgary and Claresholm Alberta, Structural Precast is an expert-led manufacturing company with over 100 customers.

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Building Better Homes

Why build with concrete?

Concrete homes built with Superior Walls are more durable, sustainable and comfortable compared to houses built with traditional wood frame construction.



Improved durability

Our waterproof, engineered concrete is built to last, with fiberglass mesh and sulfate resistant cement powder. You don't have to worry about mold, mildew, rot or rust, which will extend the life of your home and reduce overall maintenance costs. Plus, everything is backed up by our limited 10-year warranty.



Reduced construction time

Our Superior Walls system takes only 15 to 20 days to reach lock-up stage vs. 45 to 60 days for typical homes. Plus, our walls have a built-in vapour barrier and insulated access holes for easy electrical and plumbing installation, which further reduces construction time.



Quiet and comfortable

Our homes block out external noise like traffic and wind, and buffer against extreme outdoor temperatures. Our continuous insulation (R-23) reduces cold spots, allows for better heat distribution within your home, and provides better air quality.



Comparable initial costs, long term savings

Superior Walls initially cost approximately 5%-7% more than traditional wood frame homes but save homeowners 20-25% in heating and cooling costs, and 20% in insurance costs over the long term. And the savings compared to ICF homes are even greater.



Sustainable and environmentally friendly

Homes made from Superior Walls contribute to net-zero ready structures, due to their high R-value (R-23), high thermal mass and high air "tightness," which keeps cold air out and warm air in. Our concrete homes also help reduce greenhouse gas emissions compared to typical wood structures.



Product Information

Superior Walls feature patented, insulated, precast concrete wall panels that are formed in a factory-controlled setting and delivered to the job site, where the panels are lifted into position with a crane and carefully bolted together and sealed. The walls are custom-designed and built to virtually any architectural style, complete with window and door openings.

- R-23 (RSI 3.38) foam insulation will not sag or mold, unlike typical fiberglass. Additional insulation can be added to achieve higher performance.
- Concrete strength: 55-60 MPa versus typical pour-in-place concrete at 23-25 MPa.
- 10¼" thick with concrete studs two feet on center.
- Rebar-reinforced top and bottom bond beam with 2 vertical rebar in each stud.
- Airtight with a built-in vapor barrier. No issues with punctures or improper installations.
- Galvanized steel stud facing for easy installation of drywall finishing.
- Custom finishings provide aesthetic appeal. Finishes available include broom, stucco and smooth and glossy power trowel.
- Canadian Construction Materials Centre (CCMC) approved and ISO 9000 certified.
- Limited 10-year warranty.
- Fully engineered so you don't have to worry.



Custom-engineered and manufactured

Consistent quality, expertly engineered to exact customer needs.



Rapidly installed, comparable cost

Installs in days, not weeks, on a predictable schedule that speeds time to revenue, and costs only marginally more than traditional construction.



Proven performance

Strength, durability and insulation rating all meet highest industry standards.



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