

Project Profile

Portage La Prairie, MB

Roquette Pea Plant



The Roquette Pea Protein Plant in Portage La Prairie Mb is an \$800M greenfield food processing plant that converts locally sourced peas into plant based protein. This protein is used for plant based food products such as Beyond Meat burgers. Wescan in partnership with Graham Construction were contracted for the design-build of the packaging and end product loading facility of the plant. This was a 60k sf processing warehouse that received finished food product (pea protein and starch powder) into the interior silos and then produced 10lb and 1000lb bags for distribution. The process is was fully automated until the end of the line where forklift operators could load auto-palletized protein bags into the loading bay and onto semi-trailers for final transport. Key design elements included cascading pressure hygiene zones to satisfy food safe practices, explosion proof devices and design to accommodate the characteristics of protein dust and detailed integration of multiple supplier packaging and pneumatic conveying equipment.

Type of Service

Mechanical & Electrical & Structural Steel

Sector

Industrial

Delivery Method

Design Build

Project Manager

James Marsh

Superintendent

Ben Poole (M)
Brent Reid (E)

Wescan Consultants

Alliance Engineering (M)
Apollo Engineering (E)

Completed

April 2021

Value

\$16,867,000

Owner

Roquette Canada
Fabien Pallot
fabien.pallot
@roquette.com

Consultant

Hatch
Marc Parent
(289) 326-3170
marc.parent
@hatch.com

Contractor

Graham Construction
Justin Leclair
(204) 805-1067
justin.leclair
@graham.ca

Project Profile

Wescan's Scope of Work Included:

- 120ft indoor silo tower and service area
- Pneumatic conveying of finished product and 4 packaging lines.
- Building is complete with offices, locker rooms, labs, loading dock and quality inspections room.
- Multi zone building pressurization for varying hygienic zone control.
- Various Hazardous zone and explosion ratings
- Installation of packaging equipment
- Design and implementation of PLC control system for pneumatic conveying system
- Assisting owner and general contractor with approval bodies and field certifications of non-CSA compliant owner supplied equipment.
- Tower access stairs c/w guard/handrails
- Explosion ducts support framing and door frames
- Hopper frames, catwalk floor plates, roof access ladders
- Service access stairs and other misc. metals on the project

Roquette Pea Plant

