



PROUDLY CANADIAN

# GENYK

Polyurethane



**AGRICULTURAL STORAGE**  
**METAL DOME AND 'ICF' STRUCTURE**

DURAFLEX.

BOREAL NATURE  
ELITE

## Optimize Potato Storage with Durable Insulation and Protection Solutions

Spray Polyurethane Foam + Polyurea Coating: The Winning Combination for Your Agricultural Buildings



*interior metal dome storage*

In the agri-food sector, and particularly in the potato industry, storage quality is a key factor in preserving the value of a harvest. Temperature fluctuations, excessive humidity, and air infiltration can shorten the storage life of potatoes, accelerate product deterioration, and result in significant losses.

That's why **Genyk** offers an integrated solution combining the thermal efficiency of spray polyurethane foam with the exceptional durability of a polyurea coating. Together, these two technologies transform your storage facilities into airtight, hygienic, and energy-efficient environments.

**Engineered for bulk potato storage**

Maintains a consistent, cool-humid climate that preserves quality.

**Airtight, vapour-tight seal**

Foam and membrane merge into a monolith that stops air leaks and condensation.

**Fast spray install, lasting savings**

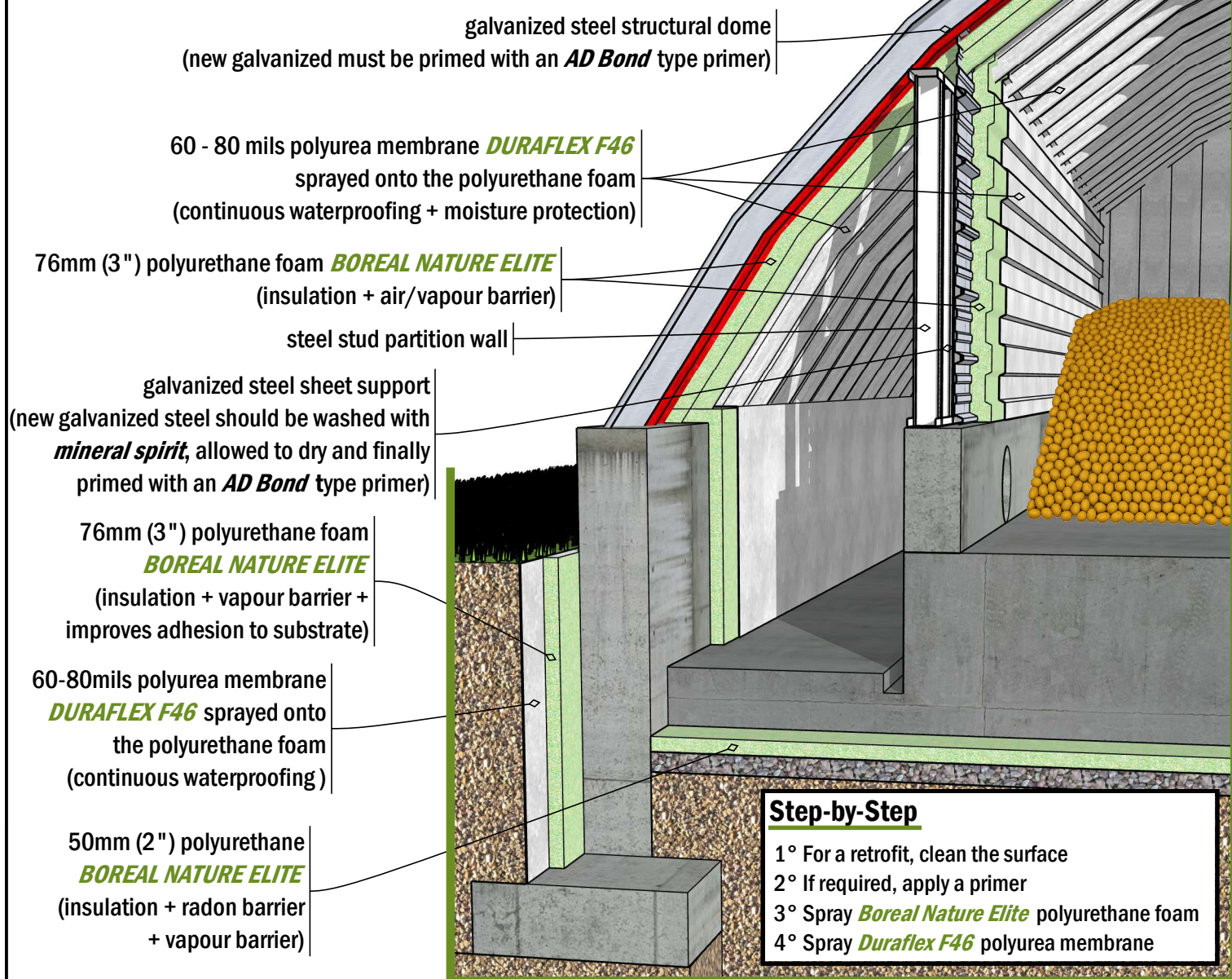
Rapid application cuts construction time, while the system keeps energy and upkeep costs low.

**Seamless waterproof & pest barrier**

Duraflex polyurea bonds tight, repelling moisture, corrosion, insects, and rodents.

**Robust thermal envelope**

Three inches of closed-cell foam minimize heat loss and hold temperatures steady year-round.



+ The drawings are for reference only, refer to Genyk before application.

**LEGEND**

- BOREAL NATURE ELITE
- DURAFLEX F46

**PIERRE-LUC ST-LOUIS - Building Science Technician**

DATE

June 16<sup>th</sup>, 2025

REV #

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### Easy to Clean and Sanitize

Smooth, non-porous surface allows quick and effortless cleaning.

### Mold and Mildew Resistant

Moisture-resistant material prevents fungal growth, keeping your environment healthy and compliant.

### Durable Surface Protection

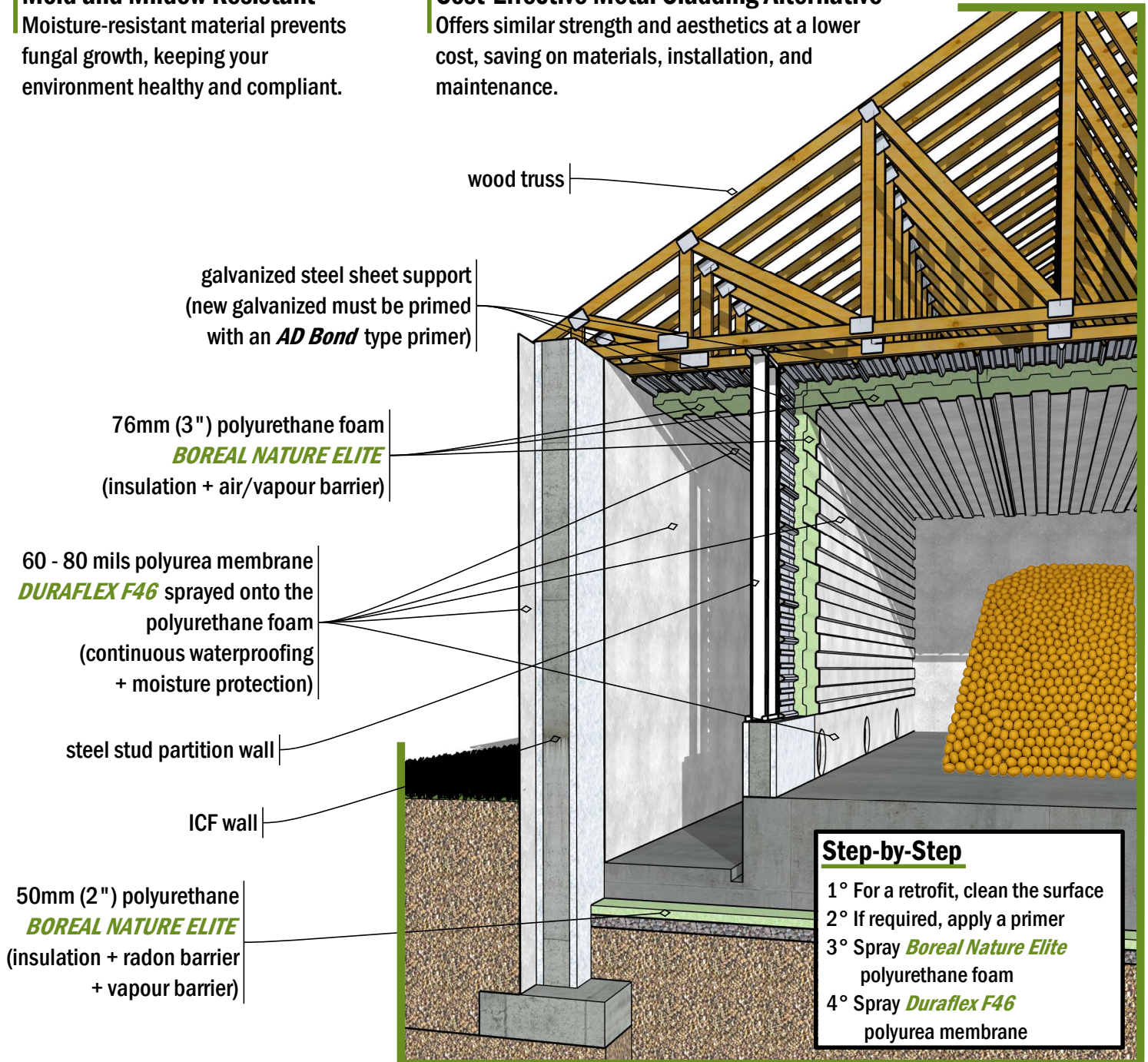
Long-lasting shield against impact, scratches, and chemicals, built for high-traffic, demanding spaces.

### Seamless, Uniform Finish

Joint-free design ensures a clean, modern look while eliminating dirt and bacteria traps.

### Cost-Effective Metal Cladding Alternative

Offers similar strength and aesthetics at a lower cost, saving on materials, installation, and maintenance.



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### Superior Thermal Insulation with Spray Polyurethane Foam

Spray polyurethane foam is known for its outstanding insulating properties. Applied directly to the interior structure, it forms a continuous thermal barrier that eliminates thermal bridging and air leaks. In metal dome warehouses or ICF (Insulated Concrete Form) structures, a rigid foam layer of about 2 inches ensures stable temperatures, even in extreme weather conditions.

Thanks to this consistent thermal regulation, producers can store bulk potatoes for extended periods without compromising quality, while significantly lowering energy costs.



*continuous insulation*

### Long-Lasting Protection with a Seamless, Resilient Coating

The polyurea coating, sprayed over the polyurethane or directly onto ICF walls, provides a smooth, continuous, highly durable finish. This coating creates a seamless waterproof surface that blocks water infiltration, prevents mold growth, and resists chemicals, impacts, and abrasion.

In agricultural environments where walls are constantly exposed to harsh conditions, humidity, dirt, and frequent washdowns, polyurea offers a far more durable and cost-effective solution over time than traditional metal cladding.

Its monolithic surface also allows for easy cleaning, helping meet strict hygiene standards. Being rot-proof, it prevents the development of mold and bacteria, an essential advantage in agri-food facilities.

## Two Practical Applications for the Potato Industry

### 1. Metal Domes for Bulk Storage

In this type of structure, spray foam is applied directly to the inside of the metal sheeting, then covered with a polyurea coating to protect the insulation from moisture and physical damage. This system creates a sealed thermal envelope, ideal for storing large volumes of potatoes.

### 2. ICF Structures with Interior Polyurea Coating

Instead of covering ICF walls with metal panels, a polyurea coating can now be applied directly onto the insulating concrete. This approach simplifies construction, reduces costs, and provides a hygienic, durable, low-maintenance finish.

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## A Strong Partnership with Agricultural and Construction Professionals

At **Genyk**, we understand the unique demands of the agricultural sector. That's why we work closely with architects, contractors, and producers to develop customized solutions that combine performance, durability, and return on investment. Our products are made in Canada and tested to withstand the harshest climates. We support you from technical evaluation to installation, with certified products and expert technical assistance.



*polyurea on 'ICF' application*



**Genyk** insulation solutions help potato producers reduce losses, improve energy efficiency, and maintain product quality, season after season.



*potato field*

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