

# CASE STUDY

## PROJECT NAME:

Gavilon Fertilizer Plant

## LOCATION:

Minnesota, USA

## ENDURO PRODUCTS:

Tuff Span™ Roofing Panels

Tuff Span™ FRP Siding Panels

FRP Flashing

Accessories



## PROBLEM

Long-term exposure to phosphate, potash, or nitrogen based fertilizers in bulk storage can result in short service life for metal panel roofing and siding. The challenging storage conditions can be compounded by moist conditions found at port facilities. These conditions can result in expensive maintenance and replacement costs.

## APPLICATION SUMMARY

The port authority's long-term tenant, Gavilon Fertilizer, needed roofing and siding panels that would: 1) deliver long-term, maintenance-free service for its challenging conditions; 2) be able to handle building loads over its service life; 3) have UV protection for long service and satisfactory appearance; and 4) have translucent panels to improve work conditions.

## SOLUTION

Installed at the Red Rock port terminal for over 20 years, the Tuff Span™ panels are still providing good service and have not required any maintenance. Offering superior combination of corrosion resistance, structural performance, and UV protection, Tuff Span™ FRP building panels are ideally suited for the challenging conditions involved with bulk fertilizer storage and port facilities. The material's premium grade, isophthalic polyester resin system is resistant to chemical attack and continuous wet conditions and ensures long-term retention of structural properties. Formulated with high content of glass fiber reinforcements, Tuff Span™ roof and siding panels offer structural performance superior to other non-metallic options. Its UV stabilized resin and protective coating ensures extended color retention and service life.

## TESTIMONIAL

"Building and panels still look good."

– Gavilon Terminal Superintendent

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