# NOVASHIELD™

# CASE STUDY

NOVASHIELD TRANSFORMED SALT STORAGE WITH FASTER INSTALLATION, BRIGHTER INTERIORS, AND LONG-TERM DURABILITY. IT'S NOT JUST A FABRIC—IT'S A SMARTER WAY TO BUILD.

## Customer Overview

A transportation and logistics company required a large-scale, durable, and efficient storage solution for road salt. The facility needed to support high-volume storage while accommodating heavy vehicle traffic and year-round operations in a cost-effective and operationally efficient manner.

***Fast installation***

## The Challenge

The primary challenge was to design and construct a structure capable of storing over 100,000 tons of road salt while maintaining low operational costs and ensuring ease of use. The customer needed a building that could facilitate the movement of large vehicles, withstand the corrosive nature of salt, and be installed quickly to meet seasonal demand. Additionally, the interior environment had to be safe and well-lit to support continuous operations regardless of weather conditions.

## Proposed Solutions

To meet the customer's operational and structural needs, a leading fabric building provider designed a 160' x 500' structure using NovaShield. The clear-span interior eliminated internal columns, allowing large vehicles to maneuver easily and improving workflow efficiency. NovaShield's lightweight composition enabled a faster, more cost-effective installation process, while its translucency provided ample natural light, reducing the need for artificial lighting. Additionally, the fabric's non-corrosive properties made it ideal for salt storage, ensuring long-term durability and reduced maintenance.

The structure was also optimized for cubic storage, allowing the customer to maximize the volume of salt stored per square foot. This design efficiency played a crucial role in managing the cost per ton stored, contributing to the overall cost-effectiveness of the solution.

## Results

The completed facility successfully met and exceeded the customer's expectations. With a capacity to store over 100,000 tons of road salt, the building provided ample space for both storage and vehicle movement. The clear-span design enabled seamless logistics operations, allowing trucks to maneuver easily within the structure and reducing loading and unloading times.

Installation was completed more quickly than traditional construction methods, minimizing disruption and allowing the facility to become operational sooner. The natural lighting provided by NovaShield significantly improved working conditions inside the building, reducing the need for artificial lighting and enhancing safety. The fabric's resistance to corrosion ensured the structure remained in excellent condition despite constant exposure to salt, reducing maintenance needs and extending the building's lifespan.

***Corrosion resistance***

***Natural lighting***

***Cubic storage efficiency***

*"The building has completely streamlined our operations—fast to install, easy to navigate, and built to last."*

## Conclusion

This case study demonstrates how NovaShield, combined with engineering expertise, delivered a high-performance, cost-effective solution for large-scale salt storage. The project highlights the importance of innovative materials and thoughtful design in meeting the complex needs of industrial storage applications. With its clear-span interior, quick installation, and durable, light-filled environment, the NovaShield solution proved to be an ideal choice for this demanding use case.

To learn more about Britespan Building Systems, visit https://britespanbuildings.com/