

CASE STUDY

# Hybrid Retaining Wall Delivers Prime Performance for Distribution Warehouse

Mid Hudson Concrete Products' RediRock Revolution



## About Mid Hudson Concrete Products:

Mid-Hudson Concrete Products was founded in 1980 by the Giachinta family and we've proudly remained a family-owned business ever since. We're committed to developing long-lasting relationships with our customers by providing quality precast concrete products and exceptional customer service for general contractors, developers, civil engineers, landscape architects, and other construction and design professionals.

## Project Details:

- **Owner:** Unnamed Online Retailer
- **Installer:** Petillo New York LLC
- **Engineer:** SRG Engineering, Inc.
- **Manufacturer:** Mid Hudson Concrete Products
- **Location:** Hopewell Junction, NY
- **Year Built:** 2022



# Introduction:

In the competitive landscape of online retail distribution, efficient logistics operations are paramount. One critical aspect often overlooked is the infrastructure that supports these facilities. This case study delves into the implementation of a hybrid retaining wall solution at an online retail distribution warehouse, showcasing how innovative engineering can optimize space utilization, streamline operations, and ensure long-term stability.

## The Challenge

Construction of a sprawling 660,000 sq ft (61316 sq m) online retail logistics center and supporting infrastructure in East Fishkill, New York, demanded the utilization of nearly every inch of the parcel hosting the facility.

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## The Solution

A hybrid mechanically stabilized earth (MSE) and gravity wall allowed the project to navigate a difficult property line, maximize the site's available space, and keep the construction of the vital regional economic development effort on schedule.

## Key Benefits



### High-Quality Concrete Products

Mid Hudson's Redi-Rock blocks are renowned for their exceptional quality and durability, making them an excellent choice for the project.



### Efficient Execution

With the right product in hand and no major challenges encountered, the project was completed within the set timeline.



### Affordability

Euro Stone Plus LLC's partnership with Mid Hudson Concrete Products provided seamless access to the required product.



### Long-Standing Relationship

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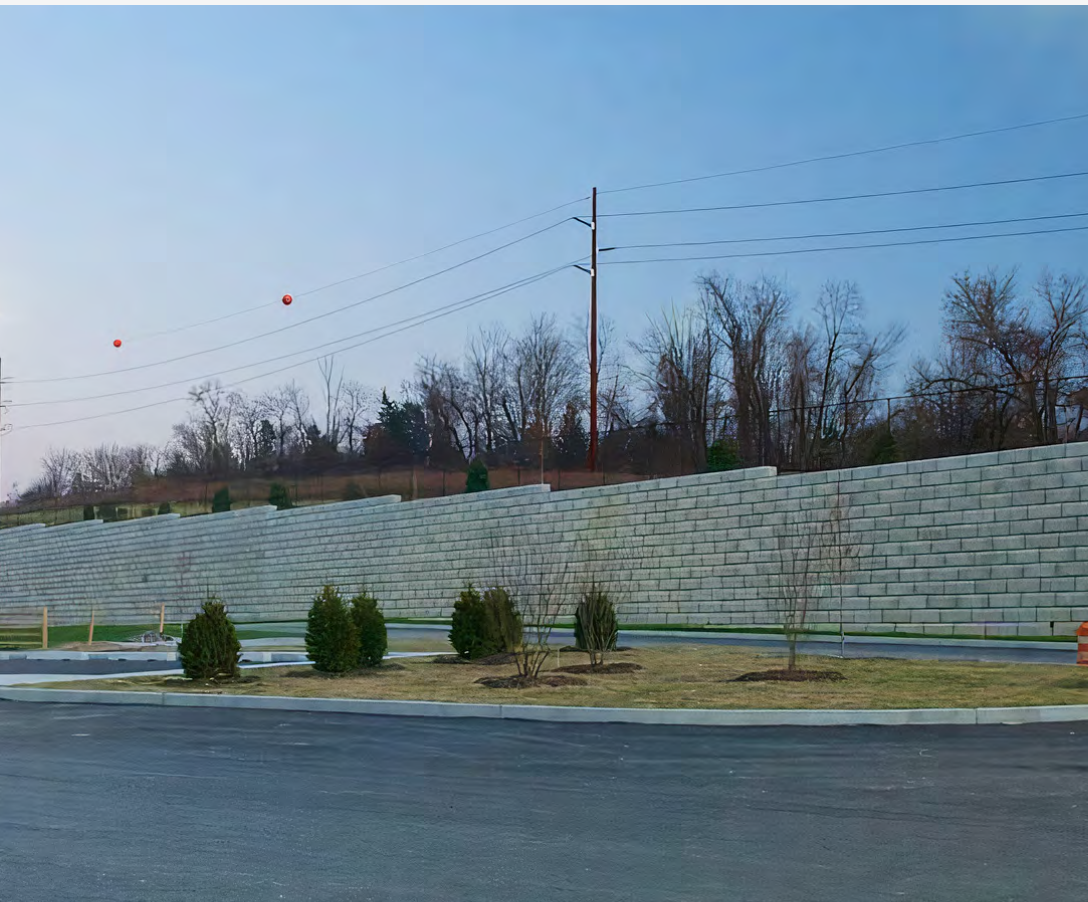
### Reliability

The partnership ensured that Euro Stone Plus LLC could trust Mid Hudson Concrete Products for their concrete product needs.



## The Outcome:

The final result is a 1,770 ft (539.5 m) long and 33 ft (10 m) tall retaining wall, making it the most extensive single-wall system Petillo Construction has installed to date. The Limestone texture of the Project Redtail wall was carefully chosen to match existing structures onsite, ensuring a cohesive and aesthetically pleasing look.



## Project Impact:

Upon completion, the distribution center is expected to create more than 500 full-time jobs, 700 part-time positions, and generate significant tax revenues for regional schools, libraries, and infrastructure. We anticipate the construction process alone will require more than 300 temporary positions, contributing to vital economic development in the region.

## Contact Information

### Mid Hudson Concrete Products

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