



PROJECT PROFILE:

FinishWorks Plant Facility
Berlin, Ohio

Challenge

Building a quiet office space adjacent to a noisy manufacturing plant was one challenge for the new FinishWorks facility. Located in Berlin, Ohio, FinishWorks is one of the leading manufacturers and distributors of industrial wood and metal coatings. When planning began for the construction of a new manufacturing plant, the goal was a durable structure that could withstand the extreme weather conditions of the upper Midwest and could accommodate the space requirements of the factory equipment while also allowing for sound deadening on the office portion of the building.

The manufacturing plant is located in a tornado prone area that is also exposed to both hot and cold temperature extremes. For a resilient structure solution, Nudura Insulated Concrete Forms (ICF) was proposed. NewBrick® was a perfect cladding option because of its high impact resistance. However, NewBrick was a technology that ICF installer, Mose Mullet and his team at Hiland Masonry LLC, were not experienced with.

Completion Date	December 2020
Project Type	New Construction
Project Size	3,000 sq ft of NewBrick
Products Used	Nudura Insulated Concrete Forms (ICF) NewBrick



Application of NewBrick is 30% faster than brick due to the exclusion of fasteners or ties.



Nudura ICF ships flat which reduces space needed for freight and minimizes jobsite clutter.



Using products from Tremco CPG companies means a one-stop-shop for the customer covered under one warranty.





Nudura ICF produces an even concrete pour that leaves the wall flat and smooth.



NewBrick's horizontal alignment guide makes installation easier and faster.

Solution

For the Hiland Masonry Team, which had never before installed a NewBrick system, Dryvit representatives came on-site to give training to the team using a wall mock-up. The mock-up allowed for the team to first see the application of NewBrick and then try it themselves to familiarize them with the feel of the product. "There was an ease of using a product we were familiar with (ICF) and learning about NewBrick was seamless," Mullet noted.

In looking at a solution that could withstand the local climate, Nudura ICF had all the ideal qualifications. "Energy savings, speed of construction and structural value were the main benefits that the design team focused on when considering Nudura Insulated Concrete Forms (ICF)," says Greg Benedict, Regional Sales Manager for Nudura. "Nudura ICF and NewBrick provide peace of mind that the structure will hold up against the toughest of conditions."

The Nudura ICF system consists of 2 expanded polystyrene (EPS) panels held together by an engineered web or connector. The forms are stacked, reinforced with steel and filled with concrete, completing the wall in one step. ICF combines several building elements into one solution and is designed to provide greater impact resistance and withstand winds up to 250 mph. And the double-foam insulated forms serve as effective sound barriers with three times more sound resistance than a typical wood-framed wall.

Complementing the ICF in its additional R value, NewBrick acts as another line of defense against inclement weather. "I was impressed with the surface of the brick, how strong it is. Their acrylic finish is extremely tough and would be difficult to scratch, dent or break," Mullet states. The combination of energy efficiency and durability in one product made NewBrick an ideal choice for the project.

Both products proved to be the perfect fit for the FinishWorks manufacturing building. While ICF is a foundational solution and NewBrick is an exterior cladding solution, the combination results in superior stability, higher R value, and double sound deadening capabilities. "And having access to both products from one source made for better coordination of the job and easy access to training and troubleshooting," states Brian Martucci, Technical Sales Representative for Dryvit.

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