



Tindall

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INDUSTRIAL PROJECTS

IBM FISHKILL

FISHKILL, NY | VIRGINIA DIVISION



The potential for winter weather issues and a demanding build schedule of 14 months were major factors in IBM's partnering with Tindall for its Upstate New York facility. Through creative site management and solid systems process, the 158,368-square-foot facility was erected in just three months and contained more than 1,700 precast concrete pieces.

To alleviate congestion in the tight work zone, all products were delivered ahead of schedule and stored in a temporary yard. This included over 1,300 truckloads of product. Once ready, they were sent to the staging lot before finally being delivered to the build site. With three cranes running simultaneously, and a fourth at the staging lot, the erection kept within schedule without logistical delays.

The industry expertise of the Tindall team, combined with support from the general contractor, transformed a significant challenge into just another day at the office.



EASTOVER PAPER MILL

RICHLAND , SC | SOUTH CAROLINA DIVISION



For International Paper, Tindall created a special seismic frame that featured a clear, no-shear-wall upper structure. This project also saw all the usual benefits of precast construction, including high universal load capacities, a redundant design that offers flexibility for future expansions, and inherent fire, mold, moisture, and corrosion resistance.

Structural elements of industrial mills like this must accommodate lateral movement and resist translational movement of the track frame. Tindall created two independent frame systems that treated columns as cantilevers to the second floor, providing the necessary rigidity to prevent interference with machine performance.



EASTMAN STAIR TOWERS

KINGSPORT, TN | UTILITY DIVISION

The original design for Eastman Chemical Company's plant in Kingsport, TN featured steel stair towers. Upon review between the owner and project team, this was identified as a significant problem for the budget, construction schedule, and operation of the facility.



EASTMAN STAIR TOWERS (CONT.)

KINGSPORT, TN | UTILITY DIVISION



First, all steel components within the tower needed to be coated with fireproofing material, which is expensive. Additionally, that fireproofing would have to follow the bracing down through the rest of the process structure frame. Second, by code, there is a four foot per day limit to the height that concrete block can be installed. Given the three towers were between 80 and 110 feet tall, each would require between five and seven weeks to complete. And third, the owner made it clear they wanted to decrease the amount and duration of on-site labor in order to reduce initial background and drug testing, as well as daily security clearance and oversight risk at their 900-acre operational chemical plant.



EASTMAN STAIR TOWERS (CONT.)

KINGSPORT, TN | UTILITY DIVISION



Tindall created a free standing and self-supporting tower design, negating the need for bracing through the main structure. On top of that, thanks to precast's inherent fire resistance, the need for additional fireproofing was also avoided. The new design made it possible to erect and grout each tower in just one week. It was also made simple enough to be installed by the steel erection crew with Tindall providing an advisory role. Through thoughtful and innovative design, Tindall addressed each of the client's challenges and solved them.



NATIONAL GYPSUM WALL BOARD PLANT

MOUNT HOLLY, NC | SOUTH CAROLINA DIVISION

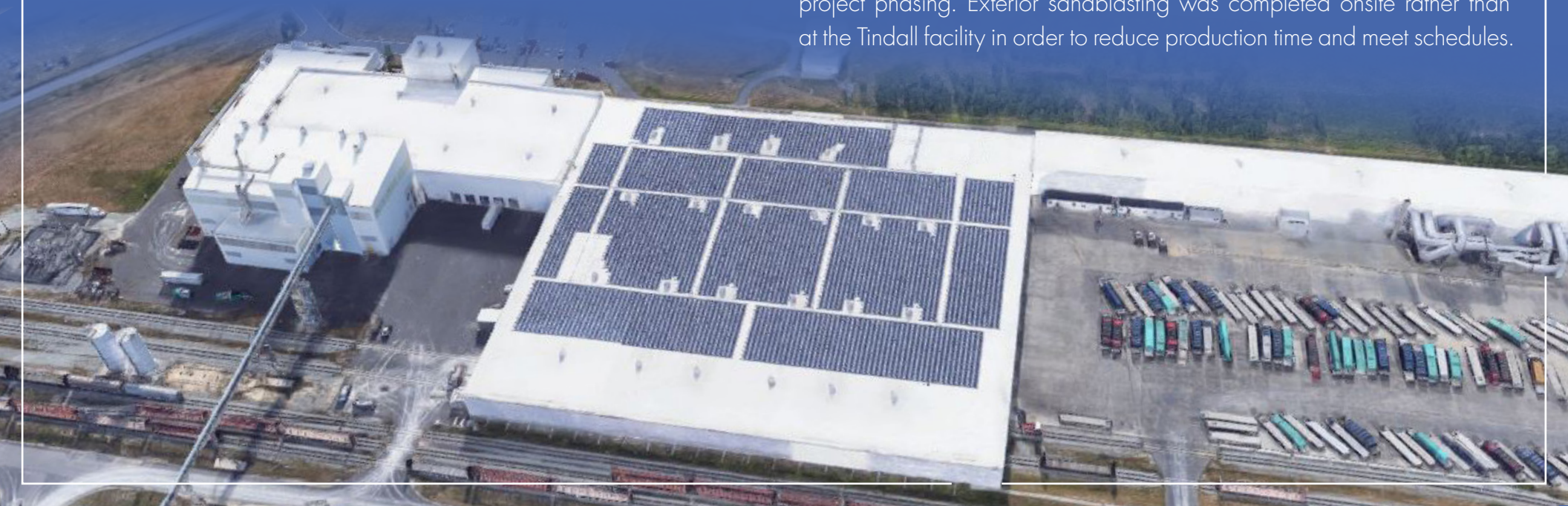


With a design footprint almost a half-mile long, and an aggressive schedule for completion, National Gypsum's new wall board plant facility was a huge order. Bovis Lend Lease knew exactly who to call to take on the challenge. Their strong past relationship and their confidence in Tindall's engineering, production, and erection abilities were contributing factors to awarding the project to Tindall's South Carolina team. The project called for both offices and wet and dry manufacturing areas. Project pieces were shipped by both truck and rail. The durability and attractive finishes of Tindall's precast fit the bill for National Gypsum.

This huge project required insulated wall panels with architectural finishes. The Tindall engineering team coordinated with the project's design team to arrive at an efficient precast design that was both functional and visually appealing.

A smooth interior finish was required to provide an easily cleaned surface in the manufacturing environment. The smooth steel trowel interior finish with white concrete mix also eliminated the need for painting. The exterior finish was an integrally colored white architectural concrete mix with two-tone sandblast finish.

Tindall completed production and erection to align with the contractor's project phasing. Exterior sandblasting was completed onsite rather than at the Tindall facility in order to reduce production time and meet schedules.



RADFORD ARSENAL — NAC/SAC FACILITY

RADFORD, VA | VIRGINIA DIVISION



An ammunitions plant in Radford, VA that produces nitric and sulfuric acid concentrations (NAC/SAC), chemicals that fortify weak concentrates for use in propellants, needed a new facility. Due to its inherent corrosion resistance, precast was the obvious choice for the construction material. That's why they called Tindall.

The request was for a 119-foot tall, nine-story total precast building, one capable of withstanding the harsh plant environment for years to come. Not only that, but the building was required to meet high seismic requirements and needed to accommodate sensitive equipment. Tindall's precast was more than capable of meeting these demands. To accommodate process piping and vessels, more than 1,600 slab openings were needed. These ranged in size from 6"x4" to 18'x6". Utilizing architectural precast wall panels, beams, columns, and slabs, Tindall was able to complete this challenging project on time and within budget.



MORE INDUSTRIAL PROJECTS



WHITE OAK SEMICONDUCTOR PLANT 1 & 2

SANDSTON, VA | VIRGINIA DIVISION

After creating a member to span over this project's 90,000-square-foot clean room, Tindall went on to set a record delivery of just over 11 months from the start of construction to the plant's first production.

[READ FULL PROFILE](#)

VORIDIAN CHEMICAL PLANT

COLUMBIA, SC | SOUTH CAROLINA DIVISION

To meet the challenging design requirements of this seven-level structure with average floor heights of 24 feet, and to minimize risk of schedule overrun, Tindall was called in at the onset of this project.

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