



Project Spotlight

Hudson Yards Observation Deck - New York, NY



Owner: Related Companies
Installer: A-Deck, Inc.

Architect: Kohn Pederson Fox Associates, PC
General Contractor: Tishman Construction

Background Information

Hudson Yards, the largest private real estate development in the United States, consists of multiple structures and public spaces that will serve as a major landmark on the West Side of Manhattan. Its most recent phase of construction was completed in April 2019, and it is expected to be fully complete by 2024.

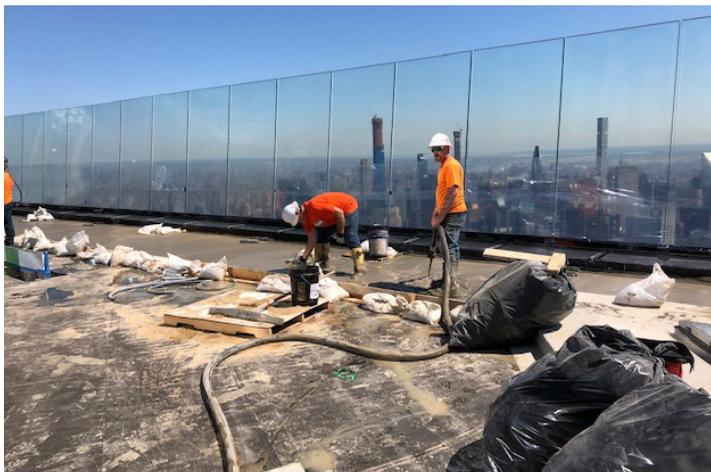
The recently completed phase, 10 Hudson Yards, consists of outdoor space along with eight structures that contain office buildings, residences, a hotel, an arts and performance space, and a mall. The second phase, on which construction has not started yet, will include more residential space, an additional office building, and a school.

Current tenants of 10 Hudson Yards include Coach, Inc., Boston Consulting Group, and tech company Sidewalk Labs. Among the tenants of 30 Hudson Yards, on which A-Deck, Inc. with the help of Aerix Industries performed work on the installation on an observation deck, are Time Warner, Inc., DNB Bank, and Wells Fargo Securities.



Project Details

To complete the observation deck on 30 Hudson Yards, which will be the Western Hemisphere's highest, the project team decided to use AQUAERIX™ Permeable Low-Density Cellular Concrete (PLDCC). A permeable, lightweight surface was required to support the window washing rig that will ultimately be moved around the Observation Deck. The permeable material needed to be light enough to protect the deck's granite pavers.





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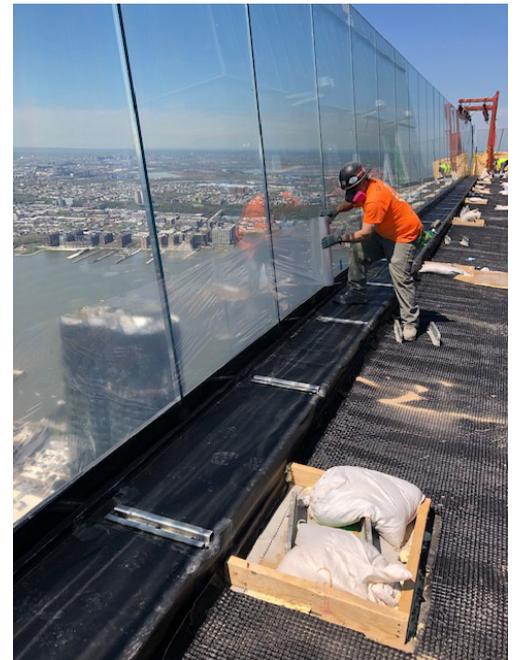
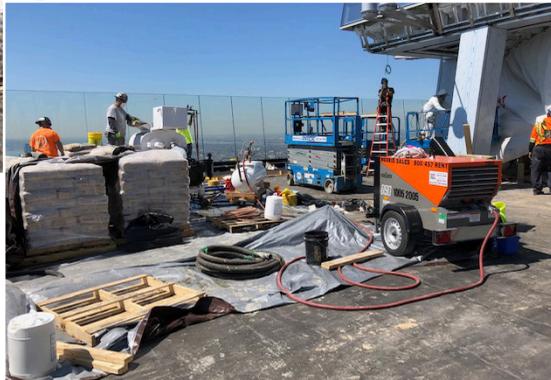
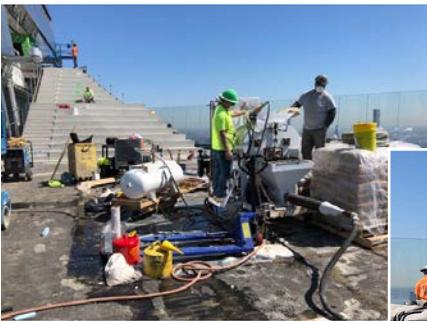


Project Details, continued

A-Deck, Inc. paved a 6' strip around the entire perimeter of the deck, from a four inch to a seven inch depth. The material was mixed onsite, 1,100 feet in the air. The installation itself was incredibly efficient, only taking two days from start to finish.

The 1,100 foot height was one of the challenges that the project presented, and the contractors dealt with high winds during installation. All materials and equipment had to be loaded onto an exterior hoist in order to reach the deck.

On top of the PLDCC, the installers placed a mortar bed with granite pavers, wire mesh and a drainage mat.



Aerix Added Value

The installers considered other solutions such as a structural topping slab, but ultimately decided upon the AQUAERIX permeable low-density cellular concrete due to its lightweight quality and concurrent ability to support heavy loads.

The existing concrete structure was not level, and using a rigid structural slab would have created further issues with the surface. The PLDCC surface allows moisture to permeate through to the appropriate drains. The design and specification phase of the project, along with the actual installation, were performed on time and on schedule. Also, Aerix representatives provided essential product data for A-Deck to put together the proper mix designs. According to the installer, Aerix Industries reassured the engineer that they chose the right product for the conditions of the job and for the site.