

Custom Laser Welded Profiles for Via 57 West in NYC

Profile:

*Custom Laser Welded Beams w/ Slots,
Holes and Tapers*

Material grade:

316/L Stainless Steel

Execution:

Laser Welded

Destination:

New York, NY



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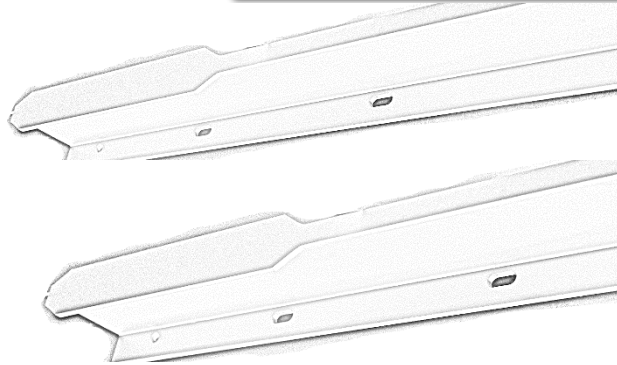
Innovative Design

Background



In early 2016, an innovative design emerged on the west side of Manhattan. The name of the building was Via 57 West and it was designed by the world-renowned architectural firm Bjarke Ingels Group. This 467 feet tall structure was a first of its kind in the United States. The design was a hybrid form combining the European perimeter block with the traditional Manhattan style high-rise.

Challenge



The pyramid design was one of a kind in New York but it was the function that made this design work. The sloped façade on the south side of the building allowed for more rooms to have a view of the Hudson River. But the sloped façade created a major challenge as the windows could not be cleaned with a regular system. A custom window washing apparatus was designed to clean the 8,400 total windows of the building. This 30-foot long, 20-ton machine needed some way to move along the sloped façade. We worked with our customer, Enclos, to produce the track for the window washing system.

Solution



A material had to be chosen to meet the design requirements and specifications for corrosion resistance and aesthetics for the window washer tracks. It was determined that 316/L stainless steel was the best material choice. The only production method able to produce this custom profile in 316/L stainless steel was laser welding. This proprietary technology allowed for complete customization of these profiles including custom lengths, tapered flanges, holes, slots, coping and more.

