

Custom Laser Welded Profiles for Cornell Dairy Plant

Profile:

Standard Tees and Custom Laser-Welded Beams

Material grade:

304 / 304L Stainless Steel

Execution:

Laser Welding & Polishing

Destination:

Cornell University: Ithaca, NY, USA



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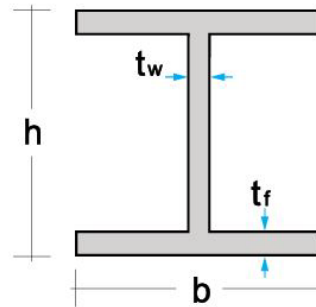
Innovative Design

Background



In 2010, Cornell University's College of Agriculture and Life Sciences broke ground on a renovation project of the Food Science Building, Stocking Hall. The parameters of this project included a \$105 million renovation of the state-of-the-art research facility. This facility is home to their famous on campus Dairy Plant and landmark Cornell Dairy Bar.

Challenge



The Cornell Dairy Plant is a centerpiece for undergraduate and graduate instruction in food science, and it is utilized in dairy foods research and production. According to the University, The Dairy produces roughly 530'000lt. of milk, 75'000lt. of ice cream, and 15'000lt. of yogurt and pudding a year. With this amount of food research and production taking place in the Dairy Plant, it was important to choose a material that would be sustainable, sanitary, and easy to clean. Stainless steel was chosen for the curtain wall to meet the environmental demands.

Solution



The project features over 13 tons of custom laser welded stainless steel beams produced with custom flange widths and thicknesses. The stainless structural sections support a glass facade and are polished with a grit 240 finish as required by the building specification. The structure consists of 42 beams at 30 feet long. The team of consultants worked together to ensure that the custom stainless beams were produced, polished and delivered to Cornell in the allotted 10-week production schedule required to meet the project deadline.

