



Water Intake Screens

Profile:
Custom Stainless Steel Beams

Material grade:
304/L Stainless Steel

Execution:
Laser Welded

Destination:
Albany, New York



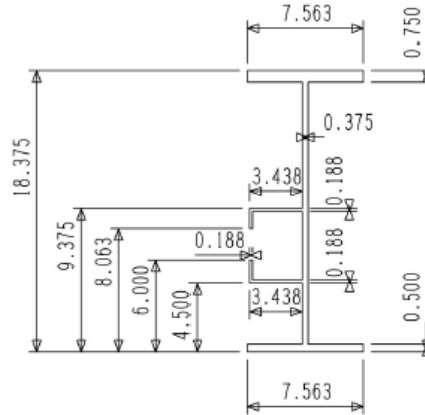
Water Intake Screens

Sustainable Solutions

Background



This project was for the New York State Office of General Services. Our customer, Intake Screens, Inc. out of Sacramento, California was awarded the project for a cooling water intake system in Albany, New York. The system provides water to both cool and heat buildings owned by the State of New York. These large cooling water systems have to meet government regulations involving the environmental impact. Section 316(b) of the Clean Water Act requires the regulation on the design and operation of intake structures to minimize adverse impacts.



Challenge

To meet both state and federal law, Intake Screens, Inc. had to design a system that would reduce both the entrainment and impingement in accordance with NYS Commissioner Policy #52. The screening system had to provide protection to fish species such as river herring, Atlantic sturgeon and other Hudson River fish species. Being that the system is submerged in water and in a harsh corrosive environment, Intake had to build a system using sustainable materials such as 304/L grade stainless steel.

Solution

Stainless Structurals specializes in the production of custom and sustainable stainless steel solutions. We have a history of producing stainless steel profiles used in water control applications. For this project we produced over 10 tons of 304/L stainless steel custom beams. These beams were used as part of the supports and side rails for the retractable screens and slide gates. The system keeps the fish in the river, keeps the screens free of debris, and allows for screen inspection without shutting down operations.

