



New World Center Soundscape

Miami Beach, Florida



When most people think of a night at the symphony, they may not think of 7-story tall musicians, blankets, and picnic baskets, but that is just what you will find at the home of the New World Symphony (NWS) in Miami Beach, Florida. Designed by West 8, the 2.5 acre park brings a symphonic experience to the outdoors by projecting images onto a 7,000 square foot projection wall, while dozens of surround sound speakers simulcast the audio of the performance from inside the hall.

The project was designed to expand the audience of classical music and build a sense of community around the center. With this open air venue, free to the public, their hope is to introduce classical music to those who otherwise may never have that experience.



Within the park, patrons will find "ballet bars" spanning the length of the park. These bars are filled with speaker systems intended to give listeners the same sound experience as if they were in the concert hall. Microphones are placed strategically around the hall to pick up each unique sound from the subtle to most pronounced. Nine high-definition cameras record the performance. It is edited live and run through fiber optic cables to four large projectors at the rear of the park.



So close to the ocean, this hostile, tropical environment wreaks havoc on steel structures. Careful consideration had to be given to how these structures would be protected from corrosion in such an environment, and in turn protect the sensitive cabling and speaker system held inside. A duplex coating system of paint over hot-dip galvanizing was

chosen. Hot-dip galvanizing provides the necessary corrosion resistance and a top-coat painted finish provides the aesthetic required to incorporate the large structures into the park.

The pipe structures were designed containing several layers of internal plates to hold the speakers, essentially creating multiple baffles inside the pipe. The galvanizer worked with the fabricator on determining where holes would be needed to facilitate proper draining of the zinc and venting of the entrapped air. Many of the pieces were fabricated in lengths too long for a single dip in the galvanizing kettle. Progressively dipping the structures added to the complexity of hole placement and the quantity of holes needed.

Working in tandem, the hot-dip galvanizing will protect the beautiful painted finish from the inside out, and the paint will provide an extra layer of barrier protection. This duplex coating system will provide decades of maintenance-free protection to these structures so integral in the mission of the NWS. As these "ballet bars" perform a role in the cultural progression of this community and worldwide, decades from now, parents who sit in the park with their children will recall the inspiring awe they felt when they heard their first symphony from these same "bars." 🐞

Galvanizer

Valmont Coatings - IGA - Tampa

Fabricator

Pro-Fab Tech, Inc.

duplex system



American Galvanizers Association