



CITY OF
FORT LAUDERDALE

FORT LAUDERDALE AQUATIC CENTER 27-METER DIVE TOWER

Fort Lauderdale is renowned as a long standing leader among aquatic destinations. Since opening the first Olympic size swimming pool in the State of Florida in 1928, then the swimming Hall of Fame in 1965, Fort Lauderdale is the proud home of the first precast concrete dive tower in the world that combines springboard, platform and high diving.

The inspiration for the tower's design reflects Fort Lauderdale's rich history as the Venice of America and the Bahia Mar Yacht Basin with its flared platforms that resembles a ship's hull. This spectacular 27-meter dive tower includes nine platform levels and is designed to accommodate up to twelve springboard.

- | | |
|-------------------------------|--|
| • High Diving Platforms | 15M, 20M, 24M, 27M |
| • Diving Platforms | 1M, 3M, 5M, 7.5M, 10M |
| • Springboards | 1M (6 max); 3M (6 max) |
| • Pool Gallons of Water | 926,578 |
| • Pool Depth | 6.096-meters |
| • Pool Size | 25-meters x 25-yards |
| • Steps of the Top | 162 |
| • Platform Surface Material | Rough-Tex |
| • Air Sparger | Pulsair – 3M, 5M, 7.5M |
| • Banner Anchors | 8 |
| • Electrical Outlets | 5 |
| • Hose Bibb Connections | 8 |
| • Lightning Prediction System | Bonded Lighting Protection Systems |
| • Pool Chemical Disinfection | Chlorine Generator; Calcium Hypochlorite |
| • Pool Filtration | Regenerative Media Filters |
| • Pool Heating/Cooling | Geothermal |
| • Sports Lighting | Musco |
| • Timing/Scoring System | Omega Swiss Timing |
| • Wind Gauge | |



CONSTRUCTION

A team of specialists with air traffic control tower experience was assembled by Hensel Phelps Construction Company to design the tower that includes 360 cubic yards of concrete, 160,000 lbs of reinforcing steel and weighing in at 1.7 million pounds. The foundation is 5-feet deep and 53-feet wide. 35 auger cast piles support the dive tower foundation, each at a depth of 60-feet. 70 auger-cast piles support the dive pool. Each section traveled by ground from the Gate Precast manufacturing plant in Kissimmee to Fort Lauderdale.

• Cubic Yards of Concrete	360 CY
• Reinforcing Steel	160,000 lbs
• Concrete	1,440,000 lbs
• Other Materials:	160,000 lbs
• Total Estimated Weight	1,760,000 lbs
• Pre-Cast Concrete Sections	96
• Lighting Protection Air Terminals	3
• Fall Protection Tie Off Anchors	13
• Railings	Clear Anodized Aluminum
• LED lighting	10 LDI Fixtures
• Construction	Concrete w/ Steel Reinforcement
• Reinforcing Steel	Grade 60, Nucor Steel Birmingham Inc., Birmingham, AL
• #78 Arrowood (Diorite)	Charleston, NC
• 3/8" Limestone	Miami, FL
• Jahna Sand	E. R. Jahna Industries, Greenbay Sand Mine, Davenport, FL
• Black Grit	River Valley, Ontario
• Aggregate Rock	3/8"

Owner/Operator	City of Fort Lauderdale
Lead Design-BUILDER	Hensel Phelps
Aquatics Designer	Counsilman-Husaker
Aquatic Sub-Contractor	Weller Pools
Architect	Cartaya & Associates
Civil & Landscape Designer	Keith & Associates
Electrical	HyPower Inc.
Geotechnical Engineer	Langan
M.E.P.S.	WSP
Precast Construction	Gate Precast
Structural Precast EOR	Econstruct
Precast Erector	Southeast Precast Erectors
Plumbing	Right Way Plumbing Company