

**Location:**

Orlando, FL, United States

**Date of Completion:**

April 2014

**Market:**

Commercial/Architectural

**Substrate:**

Ferrous Metal (Carbon Steel)

**Surface Preparation:**

SSPC-SP3 Power Tool Cleaning on Bare Metal Areas;  
SSPC-SP1 on primed steel areas with sound surfaces.

**Exposure:**

Exterior Weathering - Mild  
(Urban / Rural)

**Job Size:**

70,000 Square Feet

**Owner:**

SunRail

**Engineer:**

Helman Hurley Charvat Peacock  
Architects, Inc.

## SunRail Commuter Rail Stations - Central Florida

**Area Coated: Structural Steel Columns**

- First Coat: Carbomastic 90 (Spot Primer)
- Second Coat: Carboguard 893 SG
- Third Coat: Carbothane 133 LH

**Project Description:**

SunRail is a commuter rail system in the Greater Orlando, Florida area. Service began on May 1, 2014 after completion of Phase 1. The initial stretch comprises 31 miles with 12 stations along the former CSX Transportation "A" Line connecting Volusia County and Orange County through Downtown Orlando.

Champion Painting was awarded the painting contract on 5 stations during phase 1 construction including: Longwood Station, Church Street Station, Sand Lake Station, Maitland Station, and Winter Park Station.

SunRail opened with over 10,000 passengers on opening day. Ridership is expected to average about 4,300 passengers/day by the end of the first operating year. The owners were looking to obtain a high performance coating system that would provide long-term durability with maintenance friendly touch-up and repairs.

**Coating Selection Explanation:**

Carbomastic 90 was chosen as a surface tolerant, aluminum filled spot primer for the bare metal areas and the heat affected zone (HAZ) where welds were made. Prior to application of the spot primer, the bare metal and rusted areas were addressed in accordance with SSPC-SP3 Power Tool Cleaning.

Carboguard 893 was chosen as the intermediate coat based on its approval on the Florida Department of Transportation Qualified Products List (FDOT QPL).

Carbothane 133LH was chosen as the finish coat based on its approval on the Florida Department of Transportation Qualified Products List (FDOT QPL).

# SunRail Commuter Rail Stations - Central Florida

---

