

Florida

SMACNA

Inc.

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TECH/SPEC

NEWS

**WIAND GUERRA KING P.L.
LAW OFFICE, TAMPA, FL**



SHEET METAL CONTRACTOR: METALFAB, INC., SAN ANTONIO, FL

**WIAND GUERRA KING P.L.
LAW OFFICE, TAMPA, FL**



The scope of the project undertaken by MetalFab, Inc. for the law office of Wiand Guerra King in Tampa, Florida included: the fabrication and installation of a stainless steel ramp and stair rails on the building facade; supplying a glass stair rail and installing a stainless steel grab rail in the lobby; and the fabrication and application of copper panels both on the facade and in the lobby.



**WIAND GUERRA KING, P.L.
LAW OFFICE, TAMPA, FL**



The craftsmen at MetalFab, Inc. Fabricated and installed a fifty foot Stainless steel ramp and stair rails on the building front. In addition, the company supplied and installed a thirty foot glass stair rail with a stainless steel grab rail in the lobby.

The highlight and the challenge of the project was the fabrication, application of patina to the copper panels and the installation of 3500 square feet of copper panels on the entrance to the building and in the lobby.



The customer required a weathered green patina on the copper panels in a specific pattern and color. The folks at MetalFab applied patina acid to each panel. The process was very time consuming to achieve the pattern and color desired by the customer. Many samples were supplied before a finish was agreed upon. The acid had to be applied in a splash pattern in the flat and after a four hour wait, the panels were washed down and set to dry in the flat. The panels had to dry before they could be worked with.

The fabrication was very trying as the acid would be affected by various conditions: humidity, night time, day time, cold and heat. All of these conditions would affect the end appearance of the panels and every panel has a distinctive appearance. The application of the acid process often ran well into the night and early morning hours in order to keep up with installation in the field.

All panels were standing seam and installed interlocking for a waterproof installation. The customer wanted the outside panels to have a living finish in

which the panels will keep weathering as the years pass. The patina keeps changing and getting better over time.

The interior panels in the lobby had a clear coat applied so oxidation could not be rubbed off.

Wiand Guerra King Law was very pleased with the artistry of the work performed by MetalFab, Inc.

MAGIC KINGDOM BAKERY AND STARBUCKS, DISNEY WORLD, LAKE BUENA VISTA, FL

Engineer: C & S Engineer's, Inc., Orlando, FL

Mechanical Contractor: Adler Mechanical, Inc., Orlando, FL

Sheet Metal Contractor: McDonald Air & Sheet Metal, Inc., Orlando, FL



Shows congestion above the ceiling



Shows the backside of the linear planum

The scope of the project at the Magic Kingdom Bakery and Starbucks at Disney World that Adler Mechanical, Inc. contracted to McDonald Air and Sheet Metal, Inc. was to furnish and install ductwork, air distribution, linear slot diffusers and install five air curtains and two heat extracting hoods.

McDonald Air & Sheet Metal, Inc. of Orlando, Florida furnished and installed 2,300 lbs. of galvanized ductwork for a new supply and return air duct system at the Magic Kingdom Bakery and Starbucks. Also part of the installation was 27 pieces of air distribution, linear slot diffusers and the installation of five air curtains and two 66" by 48" heat extracting canopy hoods. The air curtain installation was coordinated with the carpenter who boxed in the

units with the handsome finished wood work.

This is the first Bakery and Starbucks on Disney property. The project is located just inside the Park.

Due to the location of this building and the hours the Park is open, much of the time worked installing the project had to be worked on third shift. Another challenge was the working conditions. There were many trades working in a small space which required close coordination between all trades.



Shows the linear diffuser installed in the beautiful woodwork

Florida SMACNA, Inc. is a trade association made up of qualified sheet metal and air conditioning contracting firms dedicated to improving the quality of the construction business in Florida. The Association is part of a nationwide network of chapters that represent the leading voice in the industry, the Sheet Metal and Air Conditioning Contractors' National Association (SMACNA) located in Chantilly, Virginia.



SMACNA BOARD OF DIRECTORS ACTS ON PUBLICATIONS

At the SMACNA Board of Directors Meeting in January, the board approved both revisions of current manuals and the development of a new manual. The following manuals will be revised:

"Round Industrial Duct Construction Standard" - 3rd edition. The primary revision in this book is the incorporation of temperature reduction factors for carbon steel in the design tables to achieve total consistency in the treatment of temperature for both the SMACNA Round and Rectangular Industrial Duct Construction Standards. Updates to the Round Industrial Software will also be included.

"Residential Comfort System Manual" Continue on a comprehensive revision of SMACNA's "Residential Comfort Installation Manual" for ANSI accreditation.

"HVAC Duct Construction Standard" - 4th edition. This publication is required to be reaffirmed or revised per the American National Standards Institute (ANSI). It will be revised into the fourth edition based on input from the SMACNA task force and from public input through public reviews.

New Manual: "Phenolic Duct Construction Standard" Development of a SMACNA Phenolic Duct Construction Standard will enable SMACNA members to more easily secure work opportunities with this air distribution system material.

FLORIDA SMACNA, INC. MEMBER FIRMS

In the sheet metal and air conditioning business, nobody knows excellence quite the way SMACNA Contractors do. After all, they wrote the book on it. Why take a chance on doing business with anyone who offers less.

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OTHER CONTRIBUTORS TO THE FLORIDA SHEET METAL INDUSTRY

Colbert Air Conditioning
Crown Corr Erection
D&J Sheet Metal
FCR Mechanical Contractors

Irvine Mechanical
MFH Sheet Metal Fabricators, Corp.
SDB Engineers and Constructors, Inc.
Quality Metal Works, Inc.

System Tech Services
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SMACNA'S CONSTRUCTION STANDARDS

- Accepted Industry Practices for Sheet Metal Lagging.
- Architectural Sheet Metal Inspection Guide.
- Architectural Sheet Metal Manual, 6th edition 2003
- Fire Smoke and Radiation Damper Installation Guide for HVAC Systems.
- Guide for Steel Stack Construction.
- Guidelines for Roof Mounted Outdoor Air-Conditioner Installations.
- HVAC Duct Systems Inspection Guide.
- Kitchen Ventilation Systems & Food Service Equipment Fabrication & Installation Guidelines.
- Residential Sheet Metal Guidelines.
- Seismic Restraint Manual: Guidelines for Mechanical Systems.
- Sheet Metal Welding Guide.
- Standard Practice in Sheet Metal Work.

SMACNA'S DESIGN GUIDES

- Duct System Calculator - Imperial + Metric
- Ducted Electric Heat Guide for Air Handling Systems.
- Guidelines for Change Orders
- HVAC Systems - Duct Designs.

SMACNA'S DUCT STANDARDS

- Accepted Industry Practice for Industrial Duct Construction.
- Fibrous Glass Duct Construction Standards.
- HVAC Air Duct Leakage Test Manual.
- HVAC Duct Construction Standards - Metal and Flexible.
- Rectangular Industrial Duct Construction Standards.
- Residential Comfort System Installation Standards Manual.
- Round Industrial Duct Construction Standards.
- Round Industrial Duct Construction Standards (RIDCS) Software Version 2.0.

- Thermoplastic Duct (PVC) Construction Manual.
- Thermoset FRP Duct Construction Manual.

SMACNA'S ENVIRONMENTAL PUBLICATIONS

- Building Systems Analysis and Retrofit Manual.
- Energy Systems Analysis and Management.
- HVAC Sound & Vibration Manual
- HVAC Systems - Applications.
- HVAC Systems - Commissioning Manual.
- HVAC Systems - Testing, Adjusting & Balancing.
- IAQ Guidelines for Occupied Buildings Under Construction.
- Indoor Air Quality - A Systems Approach.
- TAB Procedural Guide.

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