

Florida

# SMACNA Inc.

Quarterly Edition - July 2011

Volume 42

## TECH/SPEC NEWS

**CUSTOM STAINLESS WORK FOR WEST CENTRAL FLORIDA WATERFRONT HOME**



Sheet Metal Contractor: MetalFab, Inc., San Antonio, FL

**CUSTOM STAINLESS WORK FOR WEST CENTRAL FLORIDA  
WATERFRONT HOME**



**Sheet Metal Contractor: MetalFab, Inc., San Antonio, FL**

MetalFab, Inc., of San Antonio, Florida fabricated and installed various custom stainless work for this waterfront home in West Central Florida.

The work included brushed stainless steel window sills, hand rails,

miscellaneous trim, in addition to significant work in the kitchen.

In the kitchen, MetalFab fabricated the stove hood of 18 ga stainless steel with radius sides brush finished. The bar is raised and supported by striking custom stainless brackets.

Then the bar itself has radius edges of brushed stainless steel. Inserted within the stainless edge is a glass

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## CUSTOM STAINLESS WORK FOR WEST CENTRAL FLORIDA WATERFRONT HOME



insert which has bubbles designed in the glass, to reflect bubbles on the water.

Metalfab, Inc. is a custom fabricator of metal products for architectural applications, as well as ornamental and standard fabricated items including railing systems, canopies, door and wall cladding, elevator interiors and cladding, countertops, column covers, stainless steel cabinets and decorative exhaust hood covers, in stainless steel, aluminum, brass, copper and steel.

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**UPCOMING SESSION AT THE SMACNA CONVENTION SEPTEMBER 25 - 28, 2011,  
THE BROADMOOR HOTEL, COLORADO SPRINGS, COLORADO**

**SMACNA TECHNICAL STANDARDS & SUSTAINABILITY - THE WHAT, WHY & HOW**

This session will be presented by Eli Howard III, SMACNA Executive Director, Technical Resources and by Mark Terzigni, Project Manager, Technical Resources

It will address: How can energy use be reduced through the proper design, construction, installation use and application of HVAC air distribution systems? When testing must be done in HVAC air distribution systems? How can energy audits and retrofits enhance facility energy efficiency? What new types of air distribution systems are being developed?

The SMACNA Technical Standards presentation covering the new HVAC Air Duct Leakage Manual will address duct system testing (pros/cons). The SMACNA HVAC Duct Test Construction Standards - Metal and Flexible provides construction guidance to create the most resource-efficient air distribution system. SMACNA's newly revised Building Systems Analysis and Retrofit Manual shows the proper approaches and methods to evaluating cost-effective energy efficient retrofits. This collection of industry standards, developed by SMACNA can assist anyone involved in the HVAC industry to bring the highest levels of expertise to projects for the maximum benefit of the building owners and operators.



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## UPDATE ON THE STATUS/SCHEDULE OF SMACNA TECHNICAL PROJECTS

- **HVAC Air Duct Leakage Test Standard**  
The 2nd Edition will be available Summer 2011  
Emphasis on educating the design community  
Duct leakage rates were reduced  
It is currently under final ANSI review
- **Guide for Steel Stack Construction**  
3rd Edition available Summer 2011  
Separated into two manuals one for Guyed Stacks (Published January 2011) and one for Free-Standing Stacks  
Key changes will include:  
Stacks with critical wind speed >60 mph will not be designed for resonant vibration  
Limited stack diameter and material thickness for stacks with test platforms and access ladders  
Selection tables expanded include larger diameter stacks (max=120 in.)  
New requirements for anchoring stacks to concrete per ACI 318 (Appendix D) resulted in larger bases and anchor bolts than previous editions were excluded from the standardized tables
- **HVAC Systems-Applications**  
Published December 2010  
Updated to include advancements in tech. such as VFDs  
Chilled Beams (Active-Air & Passive)  
Heat Pumps - air and ground source  
Radiant Systems (Heating & Cooling)  
Benefit to design build/retrofit firms  
Existing outdated technology retained for reference purposes
- **Building Systems Analysis and Retrofit Manual**  
Release June 2011  
Focuses on HVAC, lighting and other existing building's opportunities  
Energy Management controls retrofit  
TAB, CX, IAQ  
CFC/HCFC Retrofit - huge business opportunity
- **HVAC Commissioning Manual**  
Out for public review this summer  
Processed as an ANSI approved document published at end of 2011  
LEED requirements are referenced in manual  
Remove "retro" and "re" - Cx  
Still maintains three levels of Cx  
ASHRAE agreed to reference SMACNA's 'HVAC Systems Commissioning Manual'  
in their proposed ASHRAE Commissioning Standard
- **Residential Comfort Systems**  
Revising in recognition of all the new building code requirements  
Installation standards for residential heating and cooling systems
- **Energy Systems Analysis and Management**  
Public Review by fall 2011  
General update from the 1997 1st Edition  
New technologies  
Replacement of references-camera-film & flash with electronic media and digital cameras  
Update drive systems  
Provide History Section so have a place to reference older systems

## 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.

### **All Southern Fabricators, Inc.**

5010 126th Avenue N.  
Clearwater, FL 33760  
727-573-4846  
Manuel Santana, Jr.

### **Bohnert Sheet Metal**

2225 NW 76th Street  
Miami, FL 33147  
305-696-6851  
William H. Marvel, Jr. (Skip)

### **BSA Sheet Metal**

2530 Ali Baba Avenue  
Opa Locka, FL 33054  
305-681-3771  
John Rudisill

### **CADVANTAGE Drafting Service, Inc.**

2220 1st Avenue S.  
St. Petersburg, FL 33712  
727-321-2072  
Dan Sinclair

### **Dodec Inc.**

3140 W. 84th Street, Bay #2  
Hialeah, FL 33018  
305-826-4022  
Trevor Pantry

### **Ferber Sheet Metal Works, Inc.**

4121 Evergreen Avenue  
Jacksonville, FL 32206  
904-356-3042  
George Ferber

### **Lapin Sheet Metal Company**

3825 Gardenia Avenue  
Orlando, FL 32839  
407-423-9897  
Ronald J. Lapin

### **Lee's Sheet Metal Works, Inc.**

P.O. Box 756  
East Palatka, FL 32131  
386-328-5563  
James Lee

### **McDonald Air and Sheet Metal, Inc.**

2730 Eunice Avenue  
Orlando, FL 32808  
407-295-0220  
Ralph Carver

### **Magnum Sheet Metal, Inc.**

7470 NW 68th Street  
Miami, FL 33166  
305-885-5656  
William H. Murphy, Sr.

### **MetalFab, Inc.**

P. O. Box 1184  
San Antonio, FL 33576-1184  
352-588-9901  
Wally Ruda

### **Moffitt Mechanical, LLC**

1351 13th Avenue South, Suite 130  
Jacksonville Beach, FL 32250  
904-241-9944  
John Moffitt

### **National Sheet Metal Co.**

8318 Atlantic Blvd.  
Jacksonville, FL 32211  
904-724-7476  
Lance Herlong

### **Omega Test and Balance**

126 Wisteria Avenue  
Fort Pierce, FL 34982  
772-216-7632  
Hugh Grimes

### **R. Neth & Son, Inc.**

360 E. Landstreet Road  
Orlando, FL 32824  
407-855-9096  
Brad Supples

### **Ray's Metal Works, Inc.**

P.O. Box 700  
Alachua, FL 32616  
386-462-1415  
Ray Burnsed, Sr.

### **Sheet Metal Experts, Inc.**

8986 N.W. 105th Way  
Medley, FL 33178  
305-805-2019  
William F. Medlin

### **South Florida Sheet Metal**

5264 NW 163rd St.  
Miami, FL 33014  
305-430-0075  
Harold Woods

### **United Sheet Metal Company/ Applegate**

1141 NW 31st Avenue  
Pompano Beach, FL 33069  
954-773-2910  
Rich Applegate

### **Vickers Metal Works, Inc.**

6701 Edgewater Commerce Pkwy.  
Orlando, FL 32810  
407-297-7546  
Tim Vickers

## OTHER CONTRIBUTORS TO THE FLORIDA SHEET METAL INDUSTRY

Advanced Metal Works

Apollo Construction & Engineering

Colbert Air Conditioning

Crown Corr Erection

D&J Sheet Metal

DKG & Associates

Digital Climate & Control

Florida Metal Art

FCR Mechanical Contractors

Hanen Mechanical

Industrial Steel

JV Installation

Lindab, Inc.

MFH Sheet Metal Fabricators, Corp.

Quality Metal Works, Inc.

SDB Engineers and Constructors, Inc.

Spratlin Sheet Metal

System Tech Services

Triple M Roofing Corp.

Veritab Environmental

[skarr@flsmacna.org](mailto:skarr@flsmacna.org)

*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.*



**Florida**

**SMACNA**

**Inc.**

**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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**Florida**

# **SMACNA** Inc.

6767 N. Wickham Road, Suite 400  
Melbourne, Florida 32940

RETURN SERVICE REQUESTED



**Florida SMACNA, Inc.**

**6767 N. Wickham Rd. #400**

**Melbourne, FL 32940**

**Tel: 321-242-8223 Fax: 321-242-8277**

**skarr@flsmacna.org**

**Susan E. Karr**

**Executive Vice President**

**<http://www.flsmacna.org>**