CUSTOM STAINLESS WORK FOR WEST CENTRAL FLORIDA WATERFRONT HOME

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

### FLORIDA SMACNA, INC. MEMBER FIRMS

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<thead>
<tr>
<th>Firm Name</th>
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**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**
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’S CONSTRUCTION STANDARDS
• Accepted Industry Practices for Sheet Metal Lagging.
• Architectural Sheet Metal Inspection Guide.
• 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.
• Sheet Metal Welding Guide.
• Standard Practice in Sheet Metal Work.

SMACNA’S DESIGN GUIDES
• Duct System Calculator - Imperial + Metric
• 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
• 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.
Florida

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