

Florida

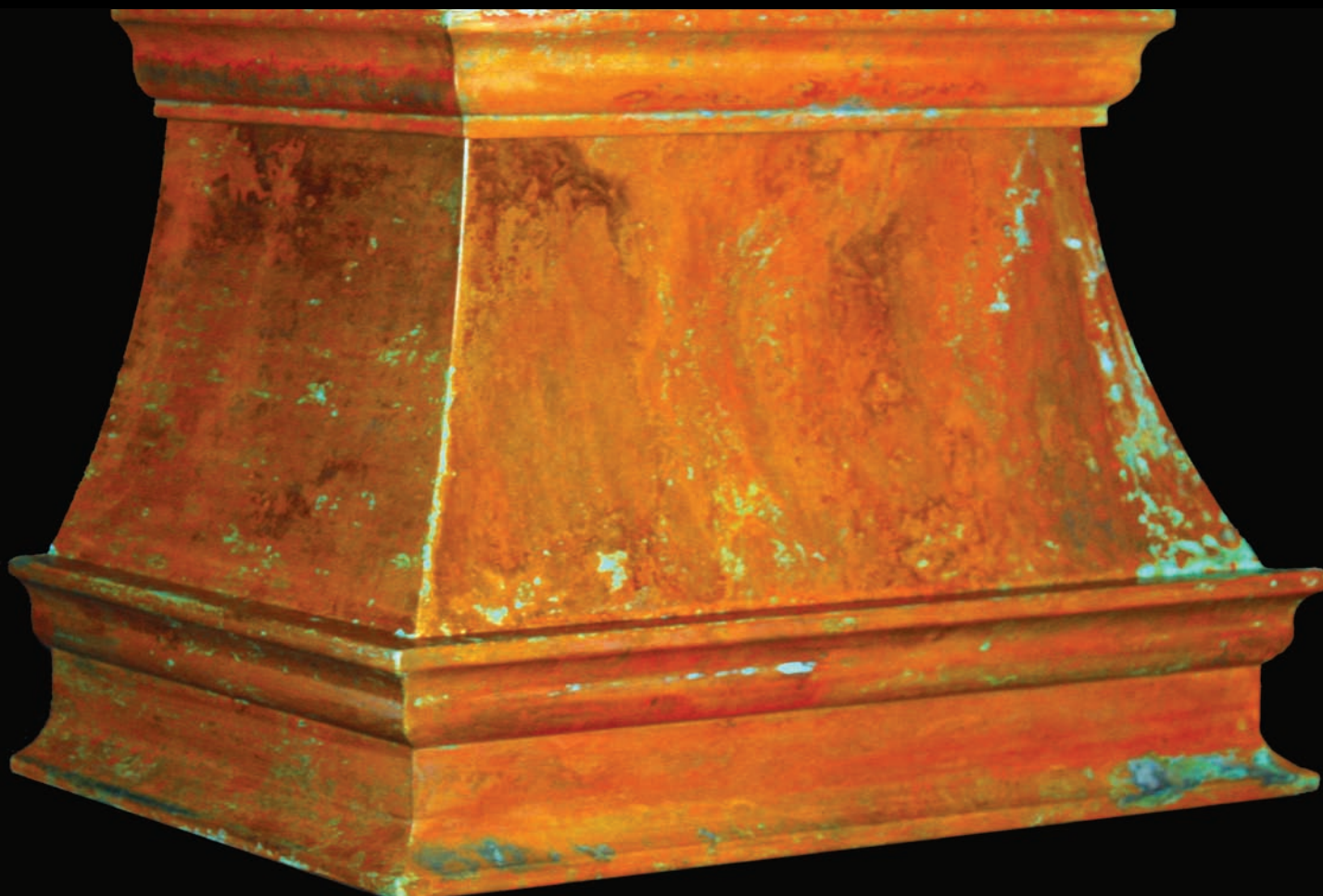
SMACNA Inc.

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Volume 41

TECH/SPEC NEWS

**CUSTOM COPPER KITCHEN HOOD FOR RACHIELE, LLC
NORTH GEORGIA**



Sheet Metal Contractor: Vickers Metal Works, Inc., Orlando, FL

**CUSTOM COPPER KITCHEN HOOD FOR RACHIELE, LLC
NORTH GEORGIA**



rustic copper hood installed in a log cabin in the mountains of North Georgia



building the copper hood



copper hood prior to finishing

Sheet Metal Contractor: Vickers Metal Works, Inc.,
Orlando, FL

Vickers Metal Works, Inc. in Orlando, Florida recently designed and fabricated this 48 oz Copper Kitchen Hood in accordance with the customer's request.

hood has a curved panel design with custom hand-formed ogee trim. It has a separate ogee crown molding.

The project was completed on March 31, 2011. Working closely with Rachiele, Vickers detailed this hood to fit between existing cabinets. A detail was submitted to the customer for approval prior to fabrication.

The crown molding is designed with approximately a 1/4" gap to allow for fan ventilation. The fan housing was supplied by the customer. All seams were welded and finished to give a seamless appearance.

The 30" tall x 30" wide x 21" deep

The custom finish was applied by Rachiele, LLC. The finish of the

kitchen hood is very rustic to harmonize with its surroundings in a log cabin in the mountains of North Georgia.

Fabrication of this hood required 65 man hours.

**DISNEY ART OF ANIMATION RESORT,
LAKE BUENA VISTA, FL**



ongoing concrete pours

Architect: KBJ Architects, Inc., Orlando, FL
Engineer: Walt Disney Imagineering
General Contractor: Hardin Construction Company, LLC,
Orlando, FL
Mechanical Contractor: MCC Mechanical, Orlando, FL
Project Manager: Rick Montz
Sheet Metal Contractor: McDonald Air & Sheet Metal, Inc.,
Orlando, FL
Project Manager: Dick Lauber
Job Site General Foreman: Mike Rausch



fiberglass room duct system, 1120 required

**DISNEY ART OF ANIMATION RESORT,
LAKE BUENA VISTA, FL**



all trades coordinated above the bathroom ceiling



one corner of the dried in



(2) metal exhaust risers with room stub-outs

Disney's latest resort project is the Art of Animation Resort which is scheduled to open at the end of 2012.

McDonald Air & Sheet Metal, Inc. along with Colbert Air contracted to MCC Mechanical to work together to provide the air distribution system needed for the ten new buildings.

Each 114,000 square foot building will have a specific theme such as The Lion King, Cars, Finding Nemo and The Little Mermaid among others. Each building consists of a core area with three wings. Each wing has four floors and the total project has just under two-thousand rooms.



next building rising

**DISNEY ART OF ANIMATION RESORT,
LAKE BUENA VISTA, FL**



roof curb lay-outs and the next building rising in the background

KBJ Architect, Inc. Along with Disney's Imagineering contracted with Hardin Construction Group to build and complete the project in eighteen months. McDonald Air provided nearly fifty sheet metal workers to do the installation of over 110,000 square feet of fiberglass room duct

work, 160,000 pounds of metal riserexhaust duct, 3,500 fans and over 10,000 pieces of air distribution.

Typical of this type project, coordination of all trades was critical.

Because of restricted floor to floor

elevations, plumbing drains, electrical and ductwork, room mock-ups were required so everyone knew where each trade needed to be along with many, many hours of drawing coordination. After locations are established, the exact process is repeated ...2000 times.

Dick Lauber, McDonald's Project Manager said, "at this time we are only 30% complete with the building process and if all things go well we should have a successful project." Mike Rausch Jr. is the General Foreman, Mark Acevedo and Randy Tilford are the onsite Foremen who together keep the project moving forward. "The toughest part is keeping up with the quick pace and maintaining the quality control for each room layout. There are so many suites that must be duplicated and each crew must do their installation exactly the same," said General Foreman Rausch.

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. 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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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

SMACNA DEVELOPS NEW “HVAC TOTAL SYSTEM AIR LEAKAGE” STANDARD

SMACNA members have developed a new standard, “HVAC Total System Air Leakage.” With greater focus on commissioning and energy conservation, it is no longer sufficient to simply test individual components of each building’s systems and assume that if each component performs in an acceptable manner that the entire system will work as intended. Construction and codes have evolved to look at the bigger picture and this new standard is intended to take the same approach to air leakage in HVAC systems.

It is not uncommon for SMACNA’s HVAC Air Duct Leakage Test Standard to be misapplied in specifications by requiring duct leakage tests to include various pieces of equipment with the pass/fail criteria set impractically low. This technically unsound practice of attempting to extend a duct-only test to other portions of the HVAC system shows that the industry needs a standard that can address the entire system using pass/fail criteria determined by testing research.

Developing a standard intended to

evaluate the equipment and distribution system requires a wide range of expertise, and because of this the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) has decided to co-develop the SMACNA-initiated standard. SMACNA and ASHRAE have worked together for decades and have jointly developed standards. The “HVAC Total System Air Leakage” standard will be developed using SMACNA’s ANSI (American National Standards Institute) procedures with the task force comprised of both SMACNA and ASHRAE members.

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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