

Florida

SMACNA Inc.

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TECH/SPEC

NEWS

**FRONT ENTRANCE CLADDING OF HIGH RISE CONDOMINIUM
BONITA SPRINGS, FL**



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

FRONT ENTRANCE CLADDING OF HIGH RISE CONDOMINIUM BONITA SPRINGS, FL



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

The challenge in this project was to change the appearance of a painted aluminum entrance to that of a highly polished stainless steel entry way.

Although the high rise condominium building is new, the owner was not satisfied with the painted aluminum entrance.

MetalFab, Inc. clad the existing aluminum front entrance with stainless steel and then applied laser cut decorative PCS to the window areas.

The owner was impressed with the upscale, high end look provided by the folks at MetalFab, Inc.

18 ga stainless steel was used for the cladding and addition of decorative details to the windows in this \$45,000 project completed in November 2007.



PALISADES AT LAKE AUSTIN GRANDE RESORT WINTER GARDEN, FL



Photo shows one of the wings built to the sixth level with the tower crane shown in the back of the picture.

Architect: Humphreys & Partners Architects, L.P., Maitland, FL
General Contractor: Synergy Group, Orlando, FL
Mechanical Contractor: Del-Air Heating & Air Conditioning, Sanford, FL
Sheet Metal Contractor: McDonald Air & Sheet Metal, Inc., Orlando, FL

The scope of this more than \$750,000 project required McDonald Air & Sheet Metal, Inc., of Orlando, Florida to fabricate and install sheet metal ductwork for the make-up air both in the corridors and in the first floor retail space of the Palisades at Lake Austin Grande Resort in Winter Garden, Florida.

Over 30,000 lbs of metal was used on the project. Galvanized sheet metal was used

for all of the ductwork. In addition, the project required over 23,000 linear feet of galvanized spiral ductwork.

This project is unique because of the extraordinary large job site and the significant number of residential units that it contains.

The 890 residential living units are spread over seven floors in sixteen towers with

common interior corridors. There are three separate parking garages for each wing.

Del-Air Heating and Air Conditioning, the mechanical contractor on the project, is performing the work on all the residential living units.

Each unit contains ceiling mounted bathroom exhaust fans and a split system air

PALISADES AT LAKE AUSTIN GRANDE RESORT WINTER GARDEN, FL



Photo shows make-up air ductwork serving each corridor at each floor, a total of 112 corridors.

conditioning unit with electric heat controlled by a programmable digital thermostat with night setback capability.

A major portion of the project consists of the air conditioning equipment and systems providing the pre-conditioned ventilation/make-up air for the common egress corridors, vending areas, ground floor public restrooms, elevator lobbies, fire alarm panel room, luggage cart storage, Bell Captain storage, service corridor and other minor storage areas.

The pre-conditioned air is provided through sixteen MUA Units of 100% outside air packaged air conditioning units, one for each building tower segment.

Each unit has an integral safety and operating controls with a remote temperature and humidity sensor located on the fourth floor of each tower segment.



Photo shows an exhaust fan shown in a opening of the air shaft. Six at level one and a total of 40 at the other levels.

PALISADES AT LAKE AUSTIN GRANDE RESORT WINTER GARDEN, FL



Ductwork in the corridor without the end ductwork installed.

A significant portion of the HVAC work includes the garage ventilation system, equipment or storage spaces requiring ventilation of cooling, and the ground floor lobby, common area, retail space and amenities area that require air conditioning or ventilation.

The garage ventilation systems are designed with ventilation shafts that rise from the ground floor and terminate above the seventh floor roof level.

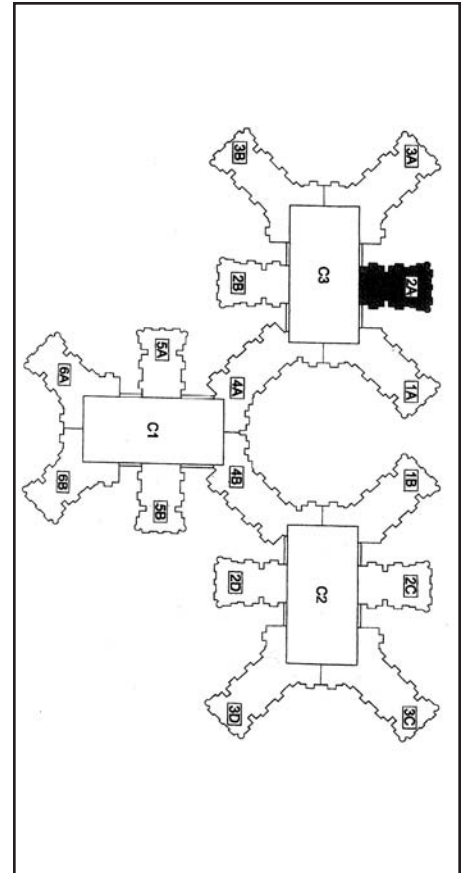
The shafts are provided for supply and exhaust air and include fans and fixed blade louvers at levels one through four.

The C -1 parking structure includes three guest elevators and one service elevator.

The elevator machinery rooms are cooled and heated by through-the-wall package terminal heat pump units (PTAC-A).

The mail lobby area, the main lobby, mens and ladies restrooms, club house lounge, small kitchen and the offices #1 through #4 are all heated, cooled and ventilated by a suspended air handling unit with electric, coupled to an air cooled conditioning unit.

One-third of this project is scheduled to be finished and turned over to the owners around April, 2009. The remaining portion of the project will be completed while that one- third is being occupied.



FUTURE SMACNA TECHNICAL PUBLICATIONS AND STANDARDS

SMACNA has several new technical publications and standards now in production.

HVAC Systems Applications is currently being reviewed and will be published in early 2009.

The Residential Comfort System Installation Standard second draft has

been reviewed except for Chapter 13 "Hydronic Heating". It should achieve ANSI 60 day review by the end of 2008 for publication in 2009. It has been updated to meet current "state of the art."

HVAC Systems Commissioning is being updated. The changes include: Retro Commissioning (Existing Buildings).

Language will be added on Sustainability, Environmentally Friendly and LEED.

The manual will be published in 2009.



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

Air Duct, Inc.

Apollo Construction & Engineering
D&J Sheet Metal
DKG & Associates
Digital Climate & Control
EK Installations

Florida Metal Art

FCR Mechanical Contractors
Industrial Steel
JP Sheet Metal
JV Installation
MFH Sheet Metal Fabricators, Corp.

Precision Mechanical, Inc.

Quality Metal Works, Inc.
SDB Engineers and Constructors, Inc.
Triple M Roofing Corp.
Universal Fabrication Services

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GUIDELINES FOR OCCUPIED BUILDINGS UNDER CONSTRUCTION, 2ND EDITION ANSI/SMACNA 008-2008

This Guideline is intended as an authoritative source for providing project management guidance in maintaining satisfactory indoor air quality (IAQ) of occupied buildings undergoing renovation or construction.

The Guideline covers how to manage the source of air pollutants, control measures, quality control and documentation, and communication with occupants.

It includes example projects, tables, references, resources, and checklists. Methods to identify and remediate lead, asbestos, or other materials that are classified as hazardous materials are not intended to be within the scope of this standards.

The new edition includes an extensive set of informative appendices than the previous edition that provided more references, resources planning and inspection checklists, model specifications, HVAC

equipment early start up guidance, and the DUCT CLEANLINESS FOR NEW CONSTRUCTION- all with a single document for user convenience.

List price: \$130.00; discount price: \$90.00 To order go to www.smacna.org.

Florida **SMACNA** Inc.

• **SMACNA'S CONSTRUCTION STANDARDS**

- Accepted Industry Standards for Sheet Metal Lagging.
- Architectural Sheet Metal Manual.
- Architectural Sheet Metal Manual, CADD Version 2.0
- 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 Guidelines.
- Managers' Guide for Welding.
- Residential Sheet Metal Guidelines.
- Seismic Restraint Manual: Guidelines for Mechanical Systems.
- SMACNA/ASHRAE Seismic Restraint Applications CD-ROM.

- Standard Practice in Sheet Metal Work.

• **SMACNA'S DUCT STANDARDS**

- Duct Research Destroys Design Myths (Bubble Video).
- Duct System Calculator - Imperial.
- Ducted Electric Heat Guide for Air Handling Systems.
- HVAC Duct Design Home Study
- HVAC Systems - Duct Design.

• **SMACNA'S DESIGN GUIDELINES**

- 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 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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