

Florida

SMACNA Inc.

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Volume 37

TECH/SPEC NEWS

**RETURN AIR DUCT SYSTEM FOR AIR HANDLERS 17C AND 17D,
CORONADO SPRINGS RESORT, LAKE BUENA VISTA, FL**



replacement duct has a 2% slope built-in to the top to eliminate water puddling on top of the ductwork

SHEET METAL CONTRACTOR: MCDONALD AIR & SHEET METAL, INC., ORLANDO, FL

**RETURN AIR DUCT SYSTEM FOR AIR HANDLERS 17C AND 17D,
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unloading trailer preparing for crane lifts



Engineer: Millward Engineering, Inc., Orlando, FL

Mechanical Contractor: P & G Mechanical,
Winter Garden, FL

Sheet Metal Contractor: McDonald Air & Sheet Metal, Inc.,
Orlando, FL
Dick Lauber, Project Manager
Mike Rausch, Sr., Foreman

This was a retrofit project on an existing one-story building.

The project was different from most because the duct system was specified to be double wall, with a 2-inch closed cell insulation sandwiched between an outer skin of 20 ga. stainless steel and the inner skin of 20 ga. galvanized.



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old single wall lined duct before demolition

The tops of both the inner and outer skins of all the ducts had to have a 2% slope built in so water would not collect.

McDonald Air's Shop Manager, Les Jones, said this created a challenge keeping all the different pieces organized. Les Jones and Shop Foreman, Neal Coning worked out the glitches and the team produced the duct on time and within budget.

Project Manager, Dick Lauber, said further challenges were encountered by the field crew including the location of the work area, the weather, and working in an occupied building.



job foreman Mike Rausch Sr. and Nick Cimino cleaning and preparing for the unit tie-in

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The work area was on a low roof surrounded by a higher roof area.

All Sunshine Crane Rental supplied a 275 ton crane that provided enough reach to place the duct where it was needed for installation.

The weather also intervened. First, a two-week hold was placed on all lifts until the weather was clear. Then no lifts were allowed if wind conditions exceeded 10 mph.

Finally, all material handling was conducted at the onsite loading dock so all materials in and out were worked around Disney's personnel and their schedule.

The project took a total of 365 man hours in the shop and 425 man hours in the field.



FIRE, SMOKE AND RADIATION DAMPER INSTALLATION GUIDE FOR HVAC SYSTEMS

- SMACNA's Fire, Smoke and Radiation Damper Installation Guide for HVAC Systems, 2002 fifth editons was updated from the 1992 edition and includes updated code references, NFPA references, and expanded guideline notes as to the details of damper installation.
 - The appendices on smoke control and smoke detectors have been revised to reflect the current technology and requirements for those applications.
 - The purpose of the guide is to outline the considerations in specifying and installing fire dampers, smoke dampers, combination fire and smoke dampers and ceiling dampers in HVAC systems.
 - Provide contractors, system designers, and code officials with an understanding of their respective responsibilities as mandated by the model codes; and illustrate the use of specific respective responsibilities as mandated by the model codes; and illustrate the use of specific methods of application in HVAC systems.
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SMACNA RELEASES SIX MODEL SPECIFICATIONS ON HVAC RELATED WORK

SMACNA has issued six model specifications or guides on HVAC-related work to assist members and the specifying community in correctly specifying sheet metal components and their installation. The model specifications reference CSI's Masterformat Division 23 - HVAC and include the following sections:

- Metal Ducts - Section 23 31 13
- Dampers - Section 23 33 13
- Duct Silencers - Section 23 33 19
- Turning Vanes - Section 23 33 23
- Duct Mounting Access Doors - Section 23 33 33
- Flexible Connectors - Section 23 33 43

All sections reference relevant SMACNA standards. Members are encouraged to share these model guides with partners in the specifying communities for editing to fit the needs of specific projects.

These six model specifications can be found on the Business/Project Management section of the SMACNA Web site under " Contract Administration."

FLORIDA SMACNA, INC. MEMBER FIRMS

In the sheet metal and air conditioning business, nobody knows excellence quite the way SMACNA Contractors do.
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Tim Anderson

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BSA Sheet Metal

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Harold Woods

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Rich Applegate

Vickers Metal Works, Inc.

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Tim Vickers

OTHER CONTRIBUTORS TO THE FLORIDA SHEET METAL INDUSTRY

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Apollo Construction & Engineering
Colbert Air Conditioning
Crown Corr Erection
D&J Sheet Metal
DKG & Associates
Digital Climate & Control

Florida Metal Art
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Hanen Mechanical
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skarr@flsmacna.org

**WINNER OF THE MANUAL DRAWING FROM THE
JANUARY NEWSLETTER!**

The January SMACNA technical manual drawing winner was

Anthony Donadio

Donadio & Associates Architects

Enter today for the next drawing.



Florida

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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.

Florida

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