Florida SMACNA Inc.
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TECH/SPEC NEWS

DISNEY TEXTILE SERVICES TUNNEL WASHER #8
DISNEY WORLD, LAKE BUENA VISTA, FL

SHEET METAL CONTRACTOR: LAPIN SHEET METAL COMPANY, INC., ORLANDO, FL
This project, done by Lapin Sheet Metal Company, Inc. of Orlando, Florida, consisted of adding a new washer and dryer #8 at Disney’s Textile Services at Disney World.

Included in the project was ductwork for seven intakes, seven exhaust stacks and two lint collector stacks.
DISNEY TEXTILE SERVICES TUNNEL WASHER #8
DISNEY WORLD, LAKE BUENA VISTA, FL

A challenge to the folks at Lapin Sheet Metal was working in an operational facility where they had to closely coordinate ductwork to miss the laundry bags and rails so they did not hinder the Textile Services peak operation time.

Lapin had to closely coordinate with W.W. Gay and the new dryer equipment.

Layout was crucial so duct fabrication and installation could be installed prior to the equipment being set.

Underneath the roof showing duct drops prior to the equipment being set

Showing duct drops with equipment set illustrating close coordination

Lint collector ducts
This project, to fabricate a custom 16ga textured stainless steel triple bowl sink for a local residence.

The customer designed the sink with a center bowl for the disposal.

The left and right bowls of the sink measure 13” x 18” x 10” deep while the center bowl measures 6” x 15 1/2” x 6” deep. The apron front is 6 3/4” high.

Drains are located in the rear center of each bowl. Each bowl was fabricated, then welded and finished to give a near seamless appearance.

Fabrication required approximately 40 man hours.

After welding, a leak test was performed to assure the quality that the customer expects when purchasing a hand crafted sink.

The sink was completed in April, 2012.

**Sheet Metal Contractor:** Vickers Metal Works, Inc., Orlando, FL
SMACNA recently has seen a surge in specifiers misapplying the requirements of the International Building Code (IBC) regarding metal edge treatments and copings on roofing systems.

The IBC states in section 1504: “Edge securement for low-slope roofs. Low-slope membrane roof system metal edge securement, except gutters, shall be designed and installed for wind loads in accordance with Chapter 16 and tested for resistance in accordance with ANSI/SPRI ES-1, except the basic wind speed shall be determined from Figure 1609.”

The recently released 7th edition of SMACNA’s “Architectural Sheet Metal Manual” (ASMM) includes code (IBC Section 1504.5) compliant fabrication and installation specifications for wind-tested coping and fascia designs in the appendix— see Appendix L. This information is also available in a free download from the SMACNA website in the Technical Papers section, Architectural Fascia and Coping Wind Tests Report.

The current and previous editions of the ASMM also include a report for the testing of ridge, eave, and rake installations for custom, standing-seam metal roofs. These reports include tests for static water penetration, dynamic water penetration, uniform structural load, and deflection tests, and uplift tests per UL 90.

This same report is also available from SMACNA’s website, www.smacna.org, and again is located in the Technical Papers section Custom Fabricated Sheet Metal Test Report. It may be useful to share both of these reports with architects and specifiers.

Only architectural elements that have been tested and installed according to approved, tested specifications can be considered as rated for wind uplift. There is no requirement in the wind uplift standard on which the IBC code language is based or the IBC code to stamp or otherwise mark products that have been manufactured a compliant with wind tests.

There is no certification required to install elements that are constructed to meet a code-mandated wind test. Without proper installation there is no assurance that an architectural element will be correctly installed so that it can resist its tested and advertised wind-uplift rating.
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• 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.
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• IAQ Guidelines for Occupied Buildings Under Construction.
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