

Florida

SMACNA Inc.

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Volume 44

TECH/SPEC NEWS

ARMANI EXCHANGE STORE
PALM BEACH GARDENS MALL: PALM BEACH GARDENS, FL



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

**ARMANI EXCHANGE STORE
PALM BEACH GARDENS MALL: PALM BEACH GARDENS, FL**



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

This project, in the Palm Beach Gardens Mall, in Palm Beach Gardens, Florida consisted of cladding the entire Armani Exchange storefront with 1/8 inch high polished mirror finish stainless steel.

Metalfab, Inc. was contacted by Armani, after they had difficulties finding a contractor competent to perform the job.

Metalfab, Inc. had to devise methods of making the bends that the Armani store called for in their specs. The brake work on this project was challenging. The folks at Metalfab came up with their own methods and special dies to complete the job.

Metalfab and the glass company had to work closely with each other

**ARMANI EXCHANGE STORE
PALM BEACH GARDENS MALL: PALM BEACH GARDENS, FL**

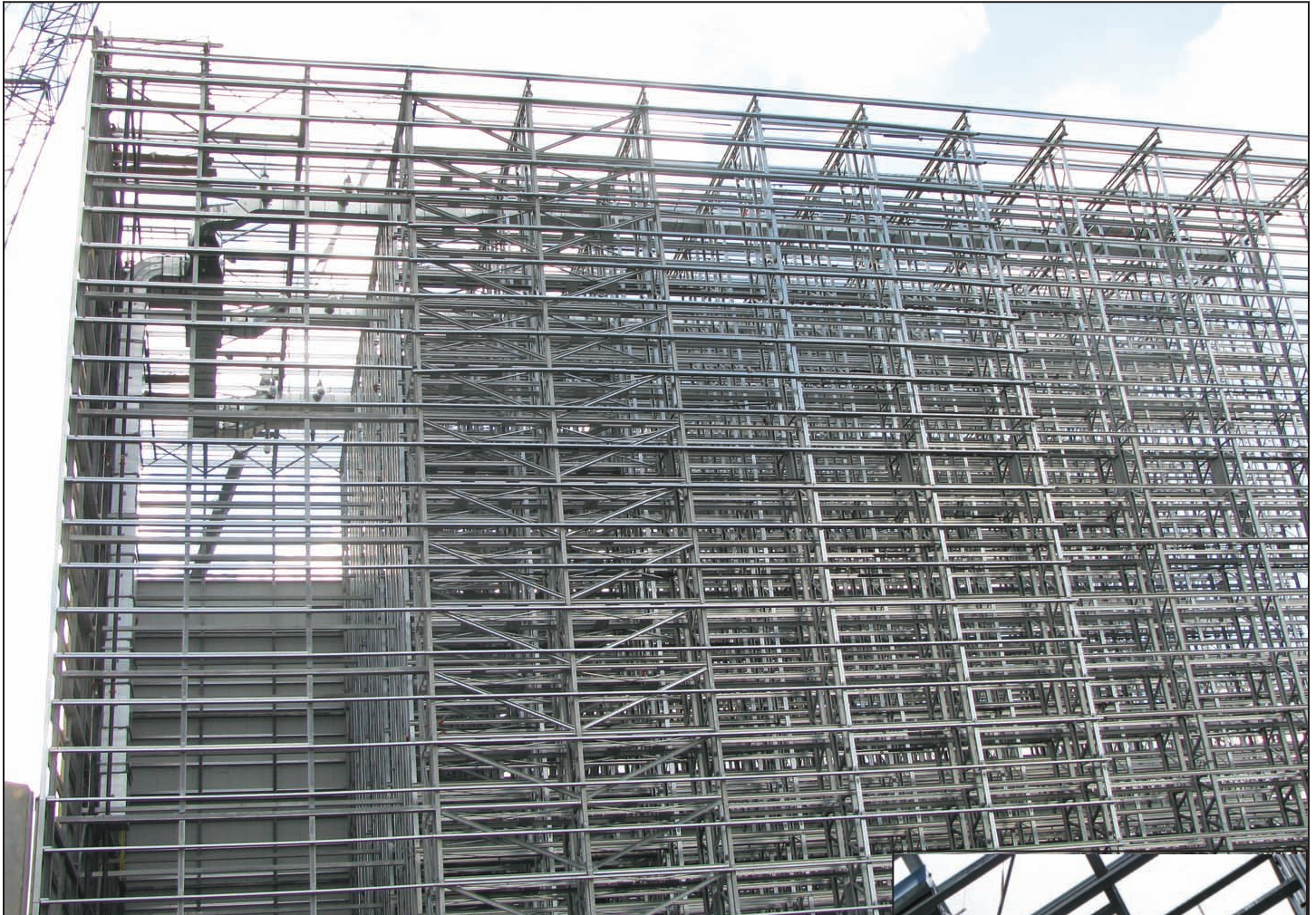


because the stainless worked into their aluminum glass framing as the installation proceeded.

Armani Exchange was very pleased with the work done by Metalfab. Since the installation of the project in Palm Beach Gardens, Armani engaged Metalfab, Inc. to do another store for them at the International Mall in Tampa, Florida.



**NEPHRON PHARMACEUTICALS CORPORATION,
ORLANDO, FL**



Mechanical Engineer: Affiliated Engineers, Orlando, FL
General Contractor: J. Raymond Construction, Orlando, FL
Steel Erector: Schaefer Systems International, Inc., Charlotte, NC
Mechanical Contractor: W. W. Gay, Orlando, FL
Sheet Metal Contractor: Lapin Sheet Metal Company, Inc., Orlando, FL

The scope of the project, performed by Lapin Sheet Metal Company, Orlando, Florida consisted of fabrication and installation of 2289 lineal feet of HVAC galvanized sheet metal ductwork into the Nephron Pharmaceuticals Corporation building in Orlando.

The Nephron building is a large warehouse used for the storage of medical respiratory medications

which are shipped throughout the country to hospitals and pharmacies.

The most unusual challenge presented by the construction of the building was sequencing of the work. The structure was erected from the inside out. The steel for palletizing racks was installed first along with their automated cranes.

Lapin had to devise a method to simultaneously hoist its ductwork 100 feet to the top of the racks while steel erection was going on. The ductwork was installed in both low bay and high bay areas of the building.

**NEPHRON PHARMACEUTICALS CORPORATION,
ORLANDO, FL**



With close coordination and working together with J. Raymond, the General Contractor, and Schaefer Systems International, Inc., the steel erectors, Lapin flew its ductwork up with the steel.

After racks and cranes had been installed, the outside enclosure could be placed on the building for drying in.

Another challenge of the project was a three month start to finish

schedule. The motto of the project became “do whatever it takes to get your work done” in order to meet schedule.

Due to the height of the work and stacking of the trades to meet schedule, safety played a major role in the project which experienced no major accidents.

The building was completed on December 31, 2011.

Lapin Sheet Metal thanks J. Raymond, the General Contractor, W. W. Gay Mechanical, Orlando and all contractors involved for making it a safe and successful project.

The company also recognized its key personnel: Ron Irby, Superintendent, Jaime Soto, Foreman, and those employees responsible for fabricating and installing the ductwork to bring the project to fruition.

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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Brad Supples

Bohnert Sheet Metal

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305-696-6851
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McDonald Air and Sheet Metal, Inc.

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BSA Sheet Metal

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Sheet Metal Experts, Inc.

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Omega Test and Balance

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Hugh Grimes

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Tim Vickers

OTHER CONTRIBUTORS TO THE FLORIDA SHEET METAL INDUSTRY

Colbert Air Conditioning
Crown Corr Erection
D&J Sheet Metal
Hanan Mechanical
FCR Mechanical Contractors

Irvine Mechanical
MFH Sheet Metal Fabricators, Corp.
SDB Engineers and Constructors, Inc.
Southeast Duct Specialists
Quality Metal Works, Inc.

System Tech Services
Tabco, LLC
TankServe, Inc.
Triple M Roofing Corp.
Veritab Environmental

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SMACNA TECHNICAL RESOURCES BULLETIN: TECHNICAL PAPER ON HVAC AIR DUCT LEAKAGE

SMACNA published the HVAC Air Duct Leakage Test Manual in conjunction with the SMACNA HVAC Duct Construction Standards.

Research proved that duct leakage could be well defined as a function of the static pressure and the surface area of the duct. This allowed for the introduction of leakage classes that could be used to calculate and accurately represent the leakage of air from ducts of various sizes and

configurations.

For over three decades SMACNA has provided both a method of test and pass/fail criteria for air duct leakage.

All of the following industry standards and codes follow the SMACNA method of duct air leakage testing in the same basic fashion, varying only slightly with respect to the pass/fail criteria, and

other minor variances for these tests.

ASHRAE 90.1 2010
The International Energy Conservation Code 2012
The International Green Construction Code V2
IAPMO's Green Plumbing and Mechanical Code Supplement (2010)

To see the entire Bulletin of December 13, 2011, go to www.smacna.org and click on Technical Resources.

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.

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