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MBSI hosted an educational day of seminars focusing on the "Design and Construction of Today's Building Envelope" on April 3, 2008 at the Center for Architecture, NYC.

PRESIDENT'S MESSAGE

I would like to take this opportunity to thank everyone that was involved in making our 2nd Building Envelope Conference at the Center for Architecture a great success. It was truly a dedicated team effort and the entire event seemed to go off without a hitch. There were approximately 120 industry professionals in attendance consisting of Architects, Engineers, Consultants, Gen-

eral & Sub Contractors, Owners, and Specification Writers. The feedback was overwhelmingly positive which makes all of the time and preparation put into it well worthwhile. There is also a very good chance that this will become an annual event. If anyone has any suggestions or comments on ways to make it better,

please don't hesitate to pass them along. Our industry continues to change for a variety of reasons and our goal as a Manufacturer's Rep Agency is to keep the Design & Construction community up-to-date, well informed, and ahead of the curve. Thanks again for your support, enjoy the summer and be safe!!



Dennis Italia (MBSI)

BENEFITS OF BUILDING PAPERLESS G - P GYPSUM

Warren Barber, manager of Dens™ Brand paperless, moisture-resistant gypsum panels for Georgia-Pacific Gypsum, recently highlighted the benefits of building paperless during the "Design & Construction of Today's Building Envelope" program held at the Center for Architecture in New York City.

The presentation delivered by Barber addressed the issue of moisture and mold in commercial buildings. Stressing the importance of using moisture- and mold-resistant gypsum panels with fiberglass mats instead of paper facings, the Medical University of South Carolina's (MUSC) Hospital Replacement project in Charleston was spotlighted as a major construction project that benefited from the use of Dens Brand gypsum products,

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Warren Barber, G-P Gypsum

ADVANCED MOISTURE MANAGEMENT - DOW BUILDING SOLUTIONS

On behalf of the Dow Chemical Company Building Solutions Group, we want to send our sincere appreciation for participating in the Design and Construction of Today's Building Envelope. The following will highlight key points of the Advanced Moisture Management seminar.

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Jim Perling, Dow Building Solutions

CONSTRUCTING EXTERIOR WALLS TO AVOID MOISTURE INFILTRATION - HENRY CO.

On behalf of the Building Science Group at Henry Company, in partnership with Metro Building Solutions we wish to thank all of our invited guests and attendees for another great Technical Seminar. It was our pleasure to present **Constructing Exterior Walls to Avoid Moisture Infiltration**, the following summarizes the presentation.

Codes set the performance standard for the design of the effective Building Envelope systems by regulating issues related to energy conservation, thermal performance, measures to prevent air leakage and retard diffusion. While the benefits of increased insulation levels are realized,

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Gary Osmond, Henry Co.

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AN INTRODUCTION TO METAL ROOFING – ATAS INTERNATIONAL

Bob Crane, Territory Manager for ATAS International recently participated in the "Design and Construction of Today's Building Envelope," held at the Center for Architecture in New York City.

Bob's topic was "An Introduction to Metal Roofing" which also included exterior metal wall systems, ceilings and accessories. A brief history of metal roofing traced metal roofing from 1506 to present.

Included in the program was hydro-

static and hydrokinetic low slope and steep slope standing seam roofing applications, in addition to curved panel systems. ATAS presented their "Energy Rated" roofing systems and highlighted the "Kynar" 30 year warranty finish system.

A program highlight "Creative Designs Using Metal Roofing and Wall Panels" was very informative. If you would like more information regarding ATAS products or scheduling an in house ATAS seminar, call Bob Crane at 484-225-6720 or rcrane@atas.com.



Bob Crane, ATAS International

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Henry Company-

it becomes critical to understand the importance of that uncontrolled air leakage of warm moisture interior air passing through the wall causes the major problems to the building envelope.

Uncontrolled Air Leakage:

Uncontrolled air leakage through the Building Envelope translates into:

- High energy consumption
- Premature deterioration of building elements,
- Condensation and Mold.

Although there are a number of products that may exhibit resistance to air leakage, it should be understood air barriers are more than a line on the drawing, they need to be designed as a "system", in other words continuity through the five exposed sides of a box that represents a building.

A well designed and detailed air barrier system will perform a number of functions essential to lowering operating costs over the life span of the building.

First Principles of Exterior Wall Design

- Design for the Worst Conditions
- Design a continuous plane of air tightness
- Design a continuous plane for rain control
- Design a complete load transfer path

- Provide a continuous plane of insulation
- Use appropriate levels of vapor control
- Accommodate movement and tolerances

Well Written Specifications

The selection process to specify the right air barrier membrane system will depend on a number of factors, the best time for this to take place is during the design development phase.

Well written, technically correct air barrier Specifications are as crucial to the construction documents as understanding the details. Air barriers are "systems" assembled of many materials and components, not just a product with a low air leakage rate.

The information provided by the presentation mentioned above, as well as other relevant technical information about Henry Building Envelope Systems® may also be found on our web site. Please visit us at www.Henry.com.

Along with our comprehensive Technical Data Sheets, our web site includes a full line of Guide Specifications and Details for both non permeable air/vapor barrier systems and vapor permeable air barrier systems.

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Our Focused Audience



New Product Announcement:

The Henry Company has introduced a new Sealant to compliment their Air Barrier Family of products. Henry **HE925- BES SEALANT** is a premium, environmentally friendly, moisture cure, medium modulus sealant for construction joints subject to dynamic movement. This one-part, low odor product provides excellent weathering resistance, flexibility and very low VOC through the use of an STPe modified polymer. It is capable of permanently sealing construction joints up to 1" in width and is great for sealing wall and window penetrations. It can also be used as a termination sealant and is fully compatible with Henry's self-adhered mod bit membranes such as Blueskin SA and TWF. For more info, please contact MBSI.

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Dow Building Solutions - Energy

Over the next 25 years, the US will increase energy consumption from 100 to 134 Quads of energy and the world's increase will grow from 400 to 676 quads. This represents an increase of the equivalent of 20,000 coal fired plants to over 50,000 coal plants by 2025. Right Now CO2 levels are already at 20 Mission tons annually. The earth can only absorb at 10 million tons of CO2. The other 10 million tons goes into the atmosphere warming the planet. A 2C rise in the earth's temperature impacts weather, health, sea levels, hurricanes, coral reefs, etc.

Buildings use 48% of the energy and 76% of all electricity in the US significantly contributing to increased energy demand, CO2 levels and global warming. The good news: Currently there are 300 billion ft2 of buildings in the US. By 2035 nearly 75% of the buildings will either be renovated or built new. Due to these facts, architects and builders hold a key to our planet's future!

Of all energy efficient technologies currently available (wind, solar, geothermal, etc.) the most economical solution to the energy use in buildings is proper building insulation (-\$150/ton of CO2). To build platinum LEED costs ~6-8% more. Payback averages a premium of 7.5% over a comparable non-LEED building with an increase of 6.6% ROI. It is possible to conclude that building green may not be less expensive but may offer a better payback while helping to reduce energy consumption and GHCI

Insulation Message

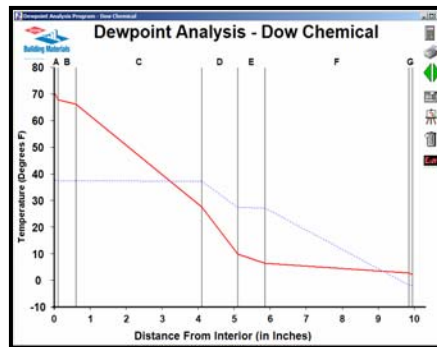
Styrofoam is extruded polystyrene. Styrofoam's chemical structure is made up of interlocking cell walls that prevent moisture from entering the board. For every 1% increase in moisture there is a 5% reduction in R-value. Styrofoam has an R-value of 5 per inch, moisture absorption of 0.3 and compressive strengths of 25, 40, 60 and 100 psi. Polyisocyanurate (Thermax) is made

from TDI and Polyol. It has aluminum facers on both sides of the board, one as thick as 26 gauge steel! Thermax has an R-Value of 6.5 per inch, moisture absorption of 1.1 and compressive strengths of 25 psi. In many cases, Thermax does not need to be covered and is designed to be left exposed on wall and ceiling applications.

To verify that you have the right R-value and are above the dew point, Dow offers an on-line program available through our web site <http://www.dowstyrofoam.com/styrofoam/na/pro-us/index.htm>. Look under "Resources and Tools", "Design Tools" for the link to the Condensation Analyses tool. You may also call 1-866-583-2583 for live technical assistance.

To host an AIA Luncheon session please contact:

James W. Perling
 Sr. Account Mgr, Dow Building Solutions
 STYROFOAM Brand Insulation Products
 973/543-1506 – Phone
jwperling@dow.com



Through Dow Building Solutions, we offer a building envelope dew point analysis as a free service. Please contact Dennis Italia or Jim Perling for more info.

PRICE INCREASE ANNOUNCEMENT
 Dow Building Solutions has announced a 6% price increase effective May 7, 2008 on their complete line of XSP and ISO products.

The Registration Crew



(L-R) Jennifer Gass (MBSI), Lee Ann Slattery (ATAS), Mary Hosley (PPG)



Nestor Torres, PPG Industries

The "After Party"



(L-R) Warren Barber, Ron Muschello (G-P Gypsum), Eric Muller (G-P Gypsum), Dennis Italia, Matt Roberts (Adamson Associates), Gary Osmond



"The Jeff's"—21st Century Group

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G - P Gypsum -

including DensArmor Plus® interior drywall, DensGlass Ultra® Shaftliner and DensGlass Gold® exterior sheathing.

Barber noted that hanging traditional paper-faced gypsum board before dry-in invites moisture damage and mold growth. Construction projects invariably have to replace paper-faced drywall when it's hung early in a project and has been exposed to the elements. Replacing the drywall after other trades have done their work is costly, and the out-of-sequence work causes access problems with other tasks. With the installation of DensArmor Plus interior drywall, crews were able to work simultaneously, which compressed schedules and eventually allowed general contractors and building owners to achieve

savings, both in time and money.

Similarly, paperless DensGlass Ultra Shaftliner helped the builder close in stairwells and shafts well before dry-in. DensGlass Ultra Shaftliner provides superior mold- and moisture-resistance when compared to regular paper-faced gypsum shaftliners in the marketplace. In elevator shafts, stairwells, horizontal ceiling membranes and as area separation walls, moisture- and mold-resistant DensGlass Ultra Shaftliner is warranted against delamination with a 12-month weather exposure limited warranty.

DensGlass Gold exterior sheathing was also selected because it is moisture-resistant, and because Georgia-Pacific Gypsum provides a 12-month weather exposure limited warranty against in-place exposure damage during construction, which allowed the builder

more flexibility in completing exterior work. Additional features of DensGlass Gold exterior sheathing include better wind uplift resistance, greater ease of use while handling, and reduction of the amount of primer needed for self-adhered membranes.

For more information on how you can incorporate paperless, moisture-resistant gypsum products in your buildings, visit www.buildpaperless.com.

Warren Barber
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THANK YOU TO OUR EVENT SPONSORS

