

2ND QUARTER NEWSLETTER

2023

air barrier
abaa
association of
america

FEATURE ARTICLE

MOCK-UPS: CONSTRUCTION'S CRASH TEST DUMMY PART 2 - TYPES OF MOCK-UPS

by Brian Stroik, CABS

Past ABAA Chair, Performance Excellence & Quality Consultant, American Contractors Insurance Group



The first part of this series reviewed WHY mock-ups are critical for properly constructing our building enclosures. So, what exactly is a mock-up? Mock-ups, to some, means a massive structure built in a lab that undergoes numerous tests. To others, it is a visual comparison of materials, or perhaps it is the first run study of in-place material. All these beliefs are correct. The building enclosure contains a myriad of exponential possibilities from size, types of materials used, installer's experience (some trained, some?), the geographical location of the building, and budgets (including over-budget concerns). How can anyone possibly account for all these situations and ensure their building will perform as intended – performance mock-ups are a good start. Let's look at the four most common types of mock-ups used in construction today:

- Visual inspection
- First-run study of the actual install
- Independent site built
- Large-scale laboratory

Each of these mock-up types has its own sets of benefits and drawbacks. Would you rather drive a car that had been through all the safety testing versus having one built in your backyard and you being the crash test dummy?



Photo 1 – Visual Mock-up - Cost = low

Visual Inspection (Photo 1): This is the least expensive mock-up and provides the least knowledge regarding **system performance**. It is still better (only slightly) than reading a spec datasheet, crossing your fingers, and hoping the product(s) will work. A visual mock-up is where the construction team builds a wall using the materials to be installed on-site. The owner/architect mainly uses it to validate color selection and appearance. These mock-ups do not run any tests on the primary barrier or connections of different materials (**what a waste of money if you go this far – test it already!**).



READ FULL ARTICLE: <https://bit.ly/3NfxBDY>

GREETINGS

from the Chairs

SARAH K. FLOCK, NCARB, BECxP, CxA+BE

Co-Chair – ABAA

Co-Chair – ABAA Research Committee

Principal – Raths, Raths & Johnson, Inc.



MR. ANDREW DUNLAP, AIA, CDT, LEED AP, NCARB

Co-Chair – ABAA

Co-Chair – ABAA Research Committee

Principal – SmithGroup



Thank you again to all those that attended, presented, sponsored and/or organized the recent ABAA conference! Not only were the presentations informative and thought-provoking, but we saw great interactions around the tradeshow tabletops and during our networking events. In turn, we have received multiple compliments and considerable amounts of positive feedback regarding the proceedings, and it was truly wonderful to see so many first-time and repeat participants!

We also want to congratulate the 2023 award winners for their hard work and continued dedication to our industry! More details on the award winners and their efforts are highlighted in this newsletter.

Following the conference, several in-person committee meetings were held and were also well attended and active. The Research Committee briefly discussed the recent completion of the NIST video tutorial introducing air infiltration correlations and the online availability of the Energy/Moisture calculator expansion for two commercial and one residential building. Also, the ORNL report to document the findings of the fastener moisture penetration testing is in progress, as well as the refinement of a test method for air leakage at fastener penetrations. Other discussions included future research opportunities to partner

with ORNL and New Mexico Institute of Mining and Technology on the development of a new method to detect and quantify air leakage.

The Technical Committee also covered a lot of ground during their meeting. A high-level review of the Division 1 and 7 reference specifications was provided to the group, as well as updates on the revisions for ASTM E1677, E1827 and E779. Discussion was held regarding implementing a process for gathering input from the industry on documents to be published, including the roof-to-wall details developed by the Transitions, Terminations and Flashings Ad Hoc group. The Transitions Terminations and Flashings group also met to continue the development of the Roof to Wall details and to begin discussions on an Interfacing Guideline for the transition between Storefront glazing assemblies and adjacent wall assemblies.

The Contractor Committee discussed the status of their various publications in process and the potential release of a new feature, ABAA Toolbox Talk! There was also an exploratory discussion to evaluate construction management software, which will be tested on a preliminary basis by the committee members. The Education Committee also met to discuss various initiatives, including CABS study group options and the exciting work around Whole Building Airtightness training.

The QAP Committee also focused on their top two projects, integrating off-site construction and prefabrication considerations into the QAP program, as well as building enclosure commissioning / consulting service options. The QAP program continues to be an ongoing dialogue among the contractor community and industry colleagues, and ABAA is always interested in options for additional outreach / promotion through our Marketing Committee and other industry resources.

Speaking of the Marketing Committee, this group is always busy and in-demand with the big task of advertising, communicating, and publicizing all the varied efforts of the many committees! They have worked hard to creatively present and market all things ABAA and spent some time providing a historical recap of all their accomplishments that have occurred over the past few years and provided a look ahead for the items they will be focused on in the future.

As you can see, our committees and members have been very busy! As always, we can't thank our volunteers enough, especially the Chairs of our various Committees and Leaders of Ad Hoc groups, for donating their time and making a difference. We look forward to continuing the positive momentum that was set forth at the Conference and wish everyone a great summer!

ABAA Re-elected Board Members



ANDRE DESJARLAIS

Director – ABAA
Oak Ridge National Laboratory



JULIE SZABO, CABS

Director – ABAA
Wiss, Janney, Elstner Assoc., Inc.



BRIAN STROIK, FABAA, CABS

Past Chair – ABAA
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Chair – ABAA Contractors
Committee
Project Manager & Estimator,
Spray Foam and Air Barrier
Specialist – OCP Contractors, Inc.



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Building Envelope Group Manager –
PROSOCO



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AWARD WINNERS

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QAP Excellence Award



Leadership Award



Denali Jones



Benjamin Meyer

Staff Recognition Award



Tamara Honza Foncerrada

Industry Partner Award



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LAUNCH WEBINAR
by Roy Schaufele, FCSI,
CCPR, FABAA, CABS
(no learning units)

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MAIN COURSE

1.0 LU/HSW/GBCI

Oh No! What Did I Miss? How to Properly Specify an Air Barrier
by: Roy Schaufele, FCSI, CCPR, FABAA, CABS

The Big Disconnect: The Importance of Wall to Roof Connections for Your Air Barrier
by: Roy Schaufele, FCSI, CCPR, FABAA, CABS

Please Proceed with Caution: Ensure Your Building Enclosure is Sustainable and Performs
by: Brian Strick, American Contractors Insurance Group, Performance Excellence & Quality Consultant, Chair of the ABAA, Past Chair - BEC National

Trust, but Verify - Quality Control for your Air Barriers
by: Ryan Dalgleish, CSI, CAE

New Tools to Help Drive Decisions in your Air Barrier Specifications
by: Laverne Dalgleish, ABAA Executive Director

Air Barrier Material Testing - Why Peanut Butter is Good for a Sandwich, but NOT for your Air Barrier
by: Laverne Dalgleish, ABAA Executive Director

Live Presentations can be scheduled 8am-8pm EST

TAKE-OUT

1.0 LU/HSW/IIBEC

On-demand presentations available to stream 24/7

Specifying Air Barriers to Achieve Airtightness
by: Laverne Dalgleish, ABAA Executive Director

Game Plan to Getting Air Barriers Right
by: Brian Strick, American Contractors Insurance Group, Performance Excellence & Quality Consultant, Chair of the ABAA, Past Chair - BEC National

"By Others" - The Elusive Subcontractor Responsible for Transitions + GBCI
by: Andrew Dunlap, AIA, CDT, LEED AP, NCARB, Principal, SmithGroup, Inc.

WWW.AIRBARRIER.ORG

What has ABAA Been Doing For Members in 2023?

JANUARY
THROUGH MAY

ATTENDEES
7466

EVENTS
51

CONTINUING EDUCATION UNITS
8427

WE WANT YOUR FEEDBACK!

Do you have some feedback for us? We Would love to hear it!

Email it to us at: hhowell@airbarrier.org

Is Your Organization Getting All the Education Benefits ABAA Has to Offer?

Free 2nd Quarter Continuing Education Provided to Industry and Membership



15

HOSTED 11 ABAA WEBINARS AND 4 ABAA CONTRACTOR WEBINARS

Topics ranging from continuous insulation, roof-to-wall connections, mass timber, curtain walls, sprayfoam in commercial applications, to LEED v4, and much more.

1

PRESENTED AT 1 MAJOR CONFERENCE

Building Communities Conference & Tradeshow.

9

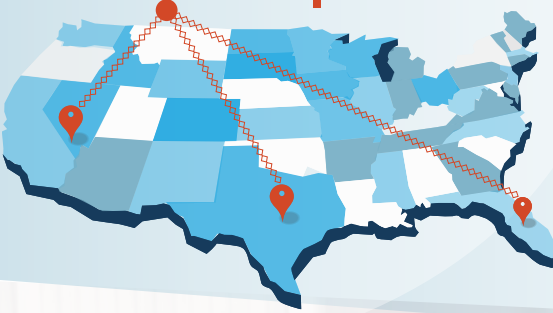
PARTNERED WITH 9 BEC/CSI/AIA CHAPTERS

Including AIA Spokane, CSI Nebraska, CSI Grand Rapid, BEC Cleveland, BEC Wisconsin, BEC St. Louis and joint programs with Advocate Health Systems & Boldt Construction, Berglund Construction, Lawrence Technological University and many more.

ABAA in Action

Look for ABAA at these Live Events

Enjoy our presentations and visit the ABAA booth.



- 27-Jul – **PENTA Building Group Full Day Symposium - Las Vegas, NV**
ABAA is presenting!
- 26-Sept – **Advancing Construction Quality Conference - Austin, TX**
ABAA is sponsoring and exhibiting!
- 29-Sept – **IIBEC Building Enclosure Symposium - Orlando, FL**
ABAA is exhibiting!
- 18-Oct – **MetalCon Conference - Las Vegas, NV**
ABAA is presenting and exhibiting!

Upcoming Webinars

- 06-Jul – Revolutionizing Building Envelopes: The Evolving Impacts of Willis Carrier's Invention
- 13-Jul – Tales from the Clipboard
- 20-Jul – Building Air Leakage and Effects on the Building Envelope
- 27-Jul – The Building Science Advisor: A Web-Based Tool to Assess the Energy Efficiency & Durability of Building Envelope Components According to the U.S. Department of Energy



Register Now!

Upcoming Certification Training

Self-Adhered & Fluid Applied	Whole Building Airtightness	Polyurethane Foam Installer	Field Auditor
Jul 25-27 - Virtual Sept 19-21 - Virtual Nov 7-9 - IL Dec 5-7 - Virtual	Sept 11-15 - WA Dec 11-15 - WA	Aug 22-24 - Virtual Oct 17-19 - Virtual	Stay Tuned!
Certify yourself or your team! <u>Register Now!</u>			

SEATTLE, WASHINGTON - SEPTEMBER 11-15



GEORGETOWN CAMPUS - Seattle, WA
Puget Sound Industrial Excellence Center
Apprenticeship & Education Center

BLOWER DOOR TECHNICIAN TRAINING COURSE

The ABAA Blower Door Technician Training program is a five-day course led by whole-building airtightness experts. The program is divided into classroom learning and hands-on, with the opportunity for trainees to plan and carry out simulated airtightness tests on mock-ups.

REGISTER NOW



CHKD HEALTH & URGENT CARE

ARCHITECT: HDR Architecture

GENERAL CONTRACTOR: WM Jordan

LOCATION: Virginia Beach, VA **TYPE:** Medical Office Building

BUILDING AREA (sq. ft.): 67,267

TOTAL AIR BARRIER AREA (sq. ft.): 30,000

ACCREDITED CONTRACTOR: The Drying Company

AIR BARRIER INSTALLERS: Willie Boettcher, Barrett Worley, Chris Wood, and Ryan Hogge

This project was the first Leeds v 4.0 in the state of VA. It was very difficult considering most manufacturers had not even started the process of getting Environmental Product Declarations, or Corporate Sustainability Reports which both were required. We used spray foam as the primary air barrier, but used silicone around the curved roof edge making all of the connections very complex.

>> More Details



Quickly Calculate Cost

We have a simple QAP calculator, try it out!
www.airbarrier.org/qap/qap-calculator

Showcase Your Project

Your QAP project could be featured here!
Contact Louise at: lhardman@airbarrier.org



ABAA QAP [QUALITY ASSURANCE PROGRAM]

Check out details on the QAP program that outlines the benefits, what the QAP entails, and how much it costs for a variety of building sizes and types.

>> Brochure

>> Landing Page