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1ST QUARTER NEWSLETTER

**Time to Register
for Our Biggest
Event of the Year!**



BUILDING ENCLOSURE CONFERENCE

DENVER, COLORADO
MAY 1ST & 2ND

AIA
Continuing
Education
Provider

+



20
23

See last page for more details on the conference.

GREETINGS from the Chairs

This past March brings perspective to where we were in 2020 versus where we are in 2023. To think that we were just coming into our new COVID reality and the unknown impact that would have on the next few years. That said, ABAA was able to stay busy and productive during the historic years of 2020 and 2021 – in fact, many of those foundational activities advanced and informed the ongoing efforts of 2023.

For example, the CABS certification was initiated in 2020. Currently, the training manual is going through some final phases of editing in hopes of a formal release in the months to come. ABAA also worked hard to educate and promote the QAP program during a time when construction was considered an essential activity, and most currently, there is continued vigor and attention at the QAP Committee level to ascertain the

next steps and growth potential. Similarly, the Contractor's Committee stayed busy helping our installer community stay informed of construction issues experienced during the pandemic and now continues to identify needs and disseminate information to that same community. The Marketing Committee stayed highly active in promoting our online educational options and other various programs. They continue to manage these efforts in addition to taking on several other promotional initiatives. In 2020, both the Technical and Research Committees experienced a brief pause in some activities, but since that time, they have reinitiated standards development and research efforts that will continue to inform our work for years to come. And while the Conference Committee might have experienced a pause in 2020 and 2021, they were happy to return to in-person events last year and have been hard at work getting everything ready and organizing our upcoming Conference in May.

We are excited about the programming and tradeshow that is scheduled for May 1st and 2nd, and the Committee meetings that are booked for May 3rd. Check out the **[schedule](#)** on the ABAA website, and we hope to see everyone at the Board Meet & Greet at the Peaks Lounge on Monday night at the conference!

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

Co-Chair – ABAA
Co-Chair – ABAA Research Committee
Principal – SmithGroup



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

Co-Chair – ABAA
Co-Chair – ABAA Research Committee
Principal – Rath, Rath & Johnson, Inc.



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2022

ACCOMPLISHMENTS

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644

COMPANIES

Our Largest
Membership
Ever!

15,614

People Attending ABAA
Education (Increase of 5,224)

17,267

Continuing Education Units
(Increase of 7,070)

2,752 QAP SPEC'D PROJECTS

An Increase of 506 over 2021



IMPORTANCE OF PERFORMANCE MOCK-UPS

PART 1 - Why a Mock-up?

by Brian Stroik, Performance Excellence & Quality Consultant, American Contractors Insurance Group



Building enclosure failures resulting in construction defect claims are one of the building industry's largest litigation areas. One way to reduce these future claims and potential issues is to build and test an enclosure mock-up. This performance mock-up would include using as many of the actual project details, materials, intended installation methods (spray versus rolled air barrier, for example), construction sequence, and, if possible, the labor to be used on the actual construction project. The construction performance mock-up is similar to the automotive industry, which builds prototype cars and performs multiple crash tests to ensure its product is safe for the public to drive.

Also, consider this: building enclosures today potentially utilize hundreds of products from multiple manufacturers, if not thousands. These products contain an unknown number of different chemical compositions (some of which are not chemically or adhesively compatible), are being installed by an industry with a nationally recognized labor shortage, and are being managed and/or commissioned by companies and individuals with varying levels of building science knowledge. Add in the fact that very few architectural schools teach building physics/science to students to understand heat, air, and moisture transfer. It is no wonder insurance claims and litigation from moisture and water issues in construction is a billion-dollar industry annually.

Question: How many architectural firms have chemists, research and development labs, or full-scale testing facilities?

Answer: Very few, but the industry is asking the architects to provide product choices in specifications and to provide builders with accurate designs and details. All of this with the full knowledge that the construction industry and development of enclosure materials are continually changing.

How can the Owner be assured his building is being properly built? Use the building industry's "Crash Test Dummy" – the Performance Mock-up.

The performance mock-up can validate the design, product selection, and proper installation of materials before the installation of final materials on the actual building. Would you build a car for your 16-year-old to drive on the expressway at 70 MPH in your backyard? If you answered no, why would you expect a unique combination of design, materials, and installers to successfully provide an Owner with a leak-free building on their first try? Remember, every building is **UNIQUE**. Even if you design and select the exact same materials for two identical buildings, there is no feasible way they could be built in the same weather conditions or with the same labor force. It is impossible!

The **performance mock-up** can be built and tested in various configurations and at different cost levels. The most crucial part is that they account for the high-risk areas of a building (foundation to wall, wall to window, wall to roof, expansion joints, penetrations, etc.) and are tested - **for water leakage, air leakage, thermal concerns, and durability**. Also, ensure the people installing the materials on the mock-up will be working on the actual building. What good does it do the project if the knowledge gained by the mock-up is not available for the actual construction of the project? Let's build it right on the building the first time and aim to get the lawyers, litigation, and enclosure failures out of construction.

The author, Brian Stroik, is currently a Performance Excellence & Quality Consultant for American Contractors Insurance Group, Past Chair & Fellow of the Air Barrier Association of America, Past Chair of the National Building Enclosure Council, voting member of ASTM E06 – Building Performance, a Union Trained Carpenter and former manager for a billion dollar construction management company.

This white paper is an overview of a four-part series on performance mock-ups. Part 2 will be released in the 2nd quarter newsletter.

- **Part 1** - Why a Mock-up?
- **Part 2** - Types of Mock-ups
- **Part 3** - Testing of Performance Mock-ups
- **Part 4** - Project Specific Education from Mock-up Lessons Learned



ST. MARTIN'S EPISCOPAL CHURCH

Founded in 1952, it is the largest parish of the Episcopal Church in North America.

➤ More Details

ARCHITECT: Jackson & Ryan Architects

GENERAL CONTRACTOR: Tellepsen

LOCATION: Houston, TX

TYPE: Religious or Church

BUILDING AREA (sq. ft.): 79,497

TOTAL AIR BARRIER AREA (sq. ft.): 96,722

ACCREDITED CONTRACTOR: Chamberlin Roofing & Waterproofing

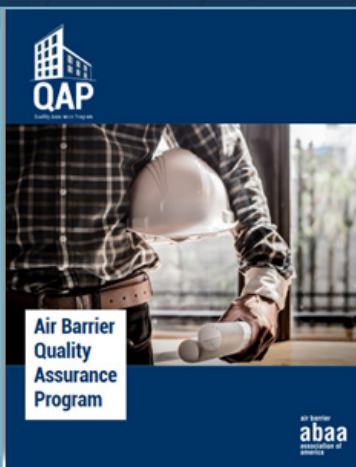


Quickly Calculate Cost

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]

QAP Overview and Brochure

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.

➤ QAP Overview ➤ Brochure

By The Numbers

Building Quality, Reducing Risk,
and Mitigating Moisture

84 Million

Sq. Ft. of QAP Audited Air Barrier Installation



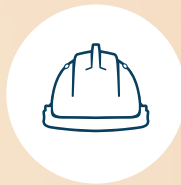
20,000+

Qap Specified
Projects



ZERO

Reported Air Barrier
Assembly Claims



2,200

Certified & Registered
Installers



5,600

Audits



107

Certified Products

ANNUAL GENERAL MEETING

wednesday

May 17, 2023 @11AM EST

virtual meeting

Details have been emailed to the membership,
contact lhardman@airbarrier.org if you need assistance.



**BUILDING
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CONFERENCE**



WHAT HAS ABAA BEEN DOING FOR MEMBERS IN 2023?



**AIR BARRIER
EDUCATION
FOR THE
CONSTRUCTION
INDUSTRY**

JANUARY
THRU FEBRUARY

ATTENDEES

2767

CONTINUING EDUCATION UNITS

2983

EVENTS

18

RECENT EDUCATION

- 05-Jan It Takes a Village to Build a High-Performance Building
- 12-Jan Building Enclosure Pre-Construction Meeting
- 19-Jan Oh No! What Did I Miss? How to Properly Specify an Air Barrier
- 23-Jan Milwaukee School of Engineering; Enclosures & Importance of Air Barriers
- 25-Jan Air Barrier Flashing Details
- 26-Jan Tips for Detailing Masonry Assemblies based in Recurring Drawing Observations
- 31-Jan U of TX; San Antonio; The Big Disconnect: Roof to Wall Connections
- 02-Feb CSI/BEC Dallas; Building Science, Through Wall Flashings, New Tools to Help Drive Decisions, "By Others" - That Elusive Subcontractor
- 03-Feb BEC Austin; 02-Feb-23 - CSI/BEC Dallas; Building Science, Through Wall Flashings, New Tools to Help Drive Decisions, "By Others" - That Elusive Subcontractor
- 08-Feb The Big Disconnect: Roof to Wall Connections
- 09-Feb Polyiso: Next Generation
- 14-Feb Why Does my Roof Leak When It's Not Raining; Building Enclosures
- 14-Feb The Big Disconnect: Roof to Wall Connections
- 16-Feb Designing Walls for Control of Air, Water, Thermal, and Vapor
- 22-Feb Don't Cheese It! Continuity to Waterproofing and Penetrations
- 23-Feb High-Performance Building Envelope

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REGISTER & LEARN

www.airbarrier.org/events/category/webinars

HUNGRY FOR MORE EDUCATION?

Sample our Learning Unit Café, an online menu of our most requested air barrier courses that any architectural firm, BEC, CSI, or AIA chapter can schedule at their convenience.

The menu consists of both Live and On-Demand presentations and all are 1 LU/HSW, and many are GBCI.

Order From the Menu

www.airbarrier.org/abaa-learning-unit-cafe/

**WE WANT YOUR FEEDBACK!
WE WANT YOUR FEEDBACK!**

Do you have some feedback for us? We Would love to hear it!
Email it to us at: lharden@airbarrier.org



**Nourishment
for the Mind**

MENU

ORDER ONLINE NOW!

**ABAA
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UNIT
CAFÉ**



**WiFi
Free**

DESSERT

*On-Demand
Presentation
24/7*

Certified Air Barrier
Specialist (CABS)
LAUNCH WEBINAR
by Roy Schuffele, FCSI,
CCPR, FABAA, CABS
(no learning units)

MAIN COURSE

1.0 LU/HSW/GBCI

Oh No! What Did I Miss? How to Properly Specify an Air Barrier

by: Roy Schuffele, FCSI, CCPR, FABAA, CABS

The Big Disconnect: The Importance of Wall to Roof Connections for Your Air Barrier

by: Roy Schuffele, 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: Laverne 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, IIBEC AP, NCARB, Principal, SmithGroup, Inc.

WWW.AIRBARRIER.ORG

Upcoming Webinars

- 04-Apr By Others – The Elusive Sub-Contractor Responsible for Transitions
- 06-Apr Air/Moisture Barrier Advancements and Coming Industry Change
- 06-Apr Updates in Whole Building Airtightness Testing
- 13-Apr Using Background Oriented Schlieren (BOS) Photography to Visualize and Measure Building Air Leakage
- 26-Apr Estimating of Waterproofing both for Below Grade and Elevated Decks

[Register Now](#) 

BUILDING ENCLOSURE CONFERENCE

 **See arrows for on-site conference training**

DENVER, COLORADO
MAY 1ST & 2ND

Upcoming Certification Training

Whole Building Airtightness	Self-Adhered & Fluid Applied	Sprayed Polyurethane Foam Installer	Field Auditor
May 8-12 - WA July 10-14 - WA October 9-13 - WA	April 18-20 - IL  May 1-3 - CO	 May 1-3 - CO	 May 1-3 - CO
Certify yourself, or your team! Register Now! 			

MAY 8-12

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** 

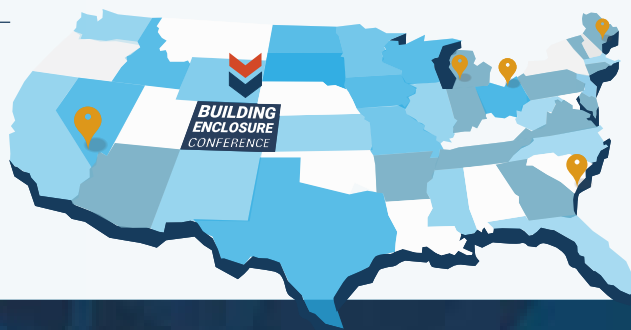
GEORGETOWN CAMPUS
Puget Sound Industrial Excellence Center
Apprenticeship & Education Center
6737 Corson Avenue South - Seattle, WA 98108



ABAA in Action

We Will Be Present at These Events

- 19-Apr CSI/IIBEC Michigan Air Barrier Rodeo - Grand Rapids, MI
- 20-Apr BEC Cleveland Full Day Symposium - Cleveland, OH
- 01-May ABAA Building Enclosure Conference - Denver, CO
- 25-Jun SpecME - Portland, ME
- 15-Jun BEC Charleston Full Day Symposium - Charleston, SC
- 18-Oct MetalCon Conference - Las Vegas, NV



Going to Our Conference? Come Meet the Board.

The Peaks Lounge
On the 27th floor

6:00 PM - 8:00 PM

Monday

May 1ST

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**BUILDING
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CONFERENCE
BOARD MEMBER
MEET & GREET**

On-Demand Webinars

- Specifying Air Barriers to Achieve Air Tightness
<https://bit.ly/3MY5jNe>
- The Importance of Wall-to-roof Connections for the Air Barrier
<https://bit.ly/3qEQiFU>
- Game Plan to Getting Air Barriers Right
<https://bit.ly/3E2NuHe>
- The Elusive Sub-Contractor Responsible for Transitions
<https://bit.ly/33x3lf5>
- Navigating the Real, Imperfect Air Barrier Details
<https://bit.ly/3dTIRoc>
- New Standards and Tools to Update Your Air Barrier Specifications
<https://bit.ly/3hl67LI>
- New Tools, Research & Site Quality in the Air Barrier Industry
<https://bit.ly/3EWuew1>
- Recurring Field Installation Issues with Air Barriers
<https://bit.ly/3HNYOE5>
- Trust, but Verify – Quality Control for your Air Barrier
<https://bit.ly/3TLrw50>
- Air Barrier Continuity Strategies for Storefront & Curtain Wall Systems
<https://bit.ly/3ytbodF>
- QA or QC: What to Specify for High Performance Building Enclosures
<https://bit.ly/3ePxpOc>

It's Back!

BUILDING ENCLOSURE CONFERENCE

DENVER, COLORADO
MAY 1ST & 2ND

20 23

REGISTER NOW

Hotel Group Rate Expires April 7th.



Reach a Captive Audience!

Don't miss the opportunity to showcase your solutions to hundreds of trade professionals. As an exhibitor, you'll be located in and around the main ballroom, where our keynote speakers, lunches, opening reception, and training rooms will take place.



Sponsorship

Sponsoring is the perfect way to enhance your visibility among influential business leaders, design professionals, building owners, general contractors, and air barrier contractors. Be recognized prominently in marketing materials, before, during, and after the conference. Availability is limited.

Media Partners



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