2ND QUARTER 2021 NEWSLETTER

air barrier abaa association of america

GREETINGS FROM THE CHAIR | BRIAN STROIK

Welcome and thank you for taking the time to read our ABAA quarterly newsletter.

I would like to start by thanking our members for their time and participation in the re-election of our nominated existing Board of Directors during our Annual General Meeting in May. Our re-elected Board members are Sarah Flock with Raths, Raths & Johnson, Andrea Wagner Watts with DuPont, Adam Ugliuzza, P.E. with Intertek, Andrew Dunlap with SmithGroup, Russell Snow with W.R. Meadows, and Rob Aird with Robert A. Aird, Inc.

I would also like to congratulate Mr. Matt Nelson with ECO Commissions on being elected to the ABAA Board of Directors – welcome aboard, Matt!

ABAA continues to be **the leader** in building enclosure education. We have provided over 3,889 hours of Continuing Education Units (CEU) in 2021 and have numerous events scheduled for the rest of the year. Our Traveling "Roadshow" is also excited to get back to **in-person** education as the year moves on.

The ABAA has decided to move our Annual Conference to May 10 and 11, 2022 (in Reston, VA) to ensure another terrific event for the attendees and sponsors. We look forward to seeing everyone there!

A FEW BRIEF NOTES ON A FEW OF OUR COMMITTEES:

- A big Thank You to Steve Shanks and the Technical committee for hiring Ms. Theresa Weston to represent ABAA in Codes hearings.
- Mr. Matt Nelson and Craig Wetmore (Co-Chairs Marketing Committee) for the promotion of our Contractor Members on social media along with the Quality Assurance Marketing blitz.
- The Whole Building Airtightness Testing task group for all the work with the State of Washington and upcoming Whole Building Airtightness Certification.
- Mr. Peter Barrett (Chair Audit Committee) and team with finalizing the reviews of the 2020 ABAA financial audit for the association.
- Mr. Andre Desjarlais and Mr. Craig Wetmore (Co-Chairs Nominating Committee) for bringing forth the recommended slate of Board of Directors and the slate of Executive Committee Members, which were approved during the recent Board of Directors Meeting.

I am truly amazed by the efforts and success of all the ABAA Committees and Task Groups – I cannot thank all of you enough for the volunteer time you commit to move this industry forward, and continue to promote the ABAA.

Thank You.

Stay safe,

Brian Stroik
Chair: Air Barrier Association of America
American Contractors Insurance Group
Performance Excellence & Quality Consultant

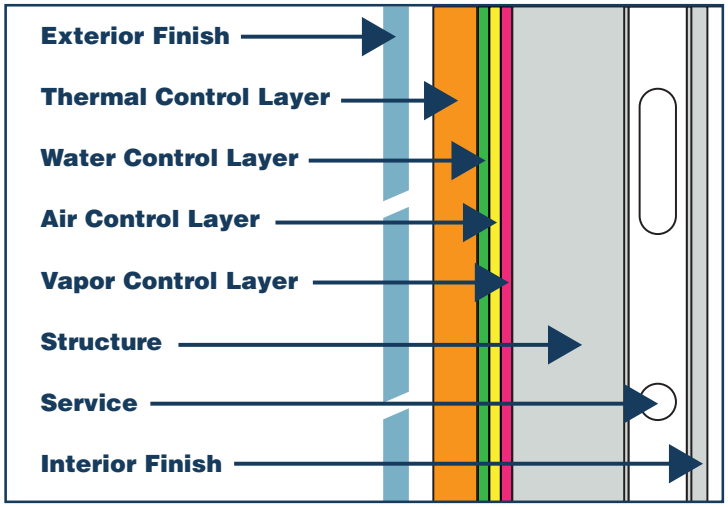
Who should become CABS certified?
Anyone who advises architects, owners, installers, inspectors/auditors, and other building stakeholders in the use, design, and installation of air barriers. Typically these individuals would be:

- Building Envelope Consultants
- Manufacturer Representatives
- Technical Field Representatives
- Architects
- Sales Professionals
- Technical Directors

Learn More: https://bit.ly/2RfhZ6y

TECHNICAL ARTICLE: WEATHER BARRIERS, WATER-RESISTIVE BARRIERS, AIR BARRIERS, AND VAPOR RETARDERS – ARE THEY NOT ALL THE SAME?

BY LAVERNE DALGLEISH & BRIAN STROIK - **PART 1:** "THE BASICS"



In the Codes, the terms weather barriers, water-resistive barriers, air barriers, vapor retarders (formerly called vapor barriers) are terms used to identify different control layers within the building enclosure. An additional control layer is thermal insulation, but that term is not used in the Code but uses the terms thermal isolation, thermal resistance-R value and thermal transmittance, U-Factor.

Control layers are not materials. Each control layer provides a different function in a building enclosure assembly and are not specific to materials. The Codes has performance requirements for a material to be used to provide that control function.

For a material to be used to provide a control layer function, the material must meet the material performance requirement, be designed in the building enclosure to provide the control function and then be installed in a manner that the material will work as the control layer.

Confused? Many people are and there is no easy answer to the question Is a material a water resistive barrier or air barrier or a vapor retarder? Building science will tell you "It depends". Let's start with using the correct terminology.

TERMS AND DEFINITIONS

- *WEATHER BARRIER*
  designated set of assemblies designed to resist the loads imposed by all elements of the weather, including solar, wind, air borne debris, heat, flooding, liquid water, and water vapor - commonly referred to as the building enclosure
- *WATER RESISTIVE BARRIER*
  designed material behind an exterior wall covering that is intended to resist liquid water that has penetrated behind the exterior covering from further intruding into the exterior wall assembly
- *AIR BARRIER*
  designated plane of material(s) to reduce airflow between different environments
- *HEAT BARRIER (THERMAL INSULATION)*
  material of relatively low heat conductivity used to shield against loss or entrance of heat by radiation, convection, or conduction
- *VAPOR RETARDER*
  material or assembly designated to reduce the water vapor transmission rate through the material or building assembly

A material may be able to provide more than one function. For a single material to provide multiple control layer functions in a building enclosure assembly, it must meet the performance requirements for each control layer function it is acting as.

KEEP IN MIND A MATERIAL MAY BE ABLE TO PROVIDE THE FUNCTION OF MORE THAN ONE CONTROL LAYER.

The table below is to simply show how a single material can provide different control layer functions. This table is overly simplified as each material needs to meet the material performance requirement to function as a control layer. There are materials that will not provide all the functions or only provide the function under specific circumstances.

	FLUID APPLIED	SELF-ADHERED	GYPSUM BASED	MECHANICALLY FASTENED	INSULATING BOARD STOCK
WATER RESISTIVE BARRIER	✓	✓		✓	✓
AIR BARRIER	✓	✓	✓	✓	✓
VAPOR RETARDER	✓	✓	✓	✓	✓
THERMAL INSULATION					✓

In the Codes, some of the performance requirements for a material are straight forward, others – not so straightforward. This concludes **Part 1**. **Part 2** will cover the Code requirements for these control layers.

COMING SOON!

Part 2: Codes **Part 3:** Design **Part 4:** Installation

BE SURE TO SUBSCRIBE TO OUR NEWSLETTER FOR PARTS 2-4

SUBSCRIBE HERE
https://bit.ly/3ggufjr

FEATURE ARTICLE: AT THE ROOF EDGE - WATER, AIR, THERMAL, AND VAPOR CONTROL

BY BENJAMIN MEYER OF GAF

The parapet is so much more than the intersection of roof and wall. It's also the junction where building aesthetics meets structural performance, air and moisture management, energy efficiency, construction trade sequencing, and operational maintenance. Each of these perspectives is critical for the long-term performance of the building, but they are often at odds with one another. At such a critical interface, proper parapet detailing, installation coordination, and execution are paramount. Continuity of water, air, thermal, and vapor control layers are necessary for long-term performance...

READ COMPLETE ARTICLE:
https://bit.ly/3inhdTX

FEATURE MEMBER ARTICLE: EVOLUTION OF RAINSCREENS – MANAGING MOISTURE IN CLADDING ASSEMBLIES

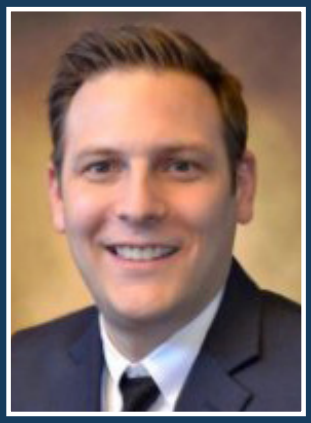
BY PETER BARRETT OF DöRKEN SYSTEMS

One of the most reliable ways of keeping the exterior walls dry or allowing them to dry out when they do get wet is to construct an assembly with an outer protective shell, also known as a rainscreen. The assembly comprises, at a minimum, an outer layer, a protected inner layer, and a cavity between them sufficient for the passive removal of liquid and water vapor...

READ COMPLETE ARTICLE:
https://bit.ly/3w8soUv

ABAA ELECTED BOARD MEMBERS

Re-elected Board Members



Adam Ugliuzza
Intertek

Andrea Wagner Watts
DuPont

Andrew Dunlap
SmithGroup

Robert Aird
Robert A. Aird, Inc.

Russell Snow
W.R. Meadows

Sarah Flock
Raths, Raths & Johnson, Inc.

Newly-Elected Board Member

Matt Nelson
ECO Commissions

THE EXECUTIVE SLATE WAS APPROVED BY THE BOARD OF DIRECTORS

Immediate Past Chair
Russell Snow
W.R. Meadows

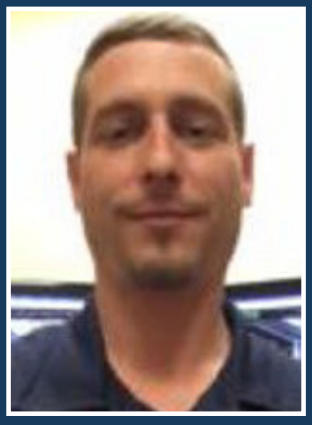
Chair
Brian Stroik
American Contractors Insurance Group

First Vice-chair
Andrew Dunlap
SmithGroup

Second Vice-chair
Sarah Flock
Raths, Raths & Johnson, Inc.

Treasurer
Robert Aird
Robert A. Aird, Inc.

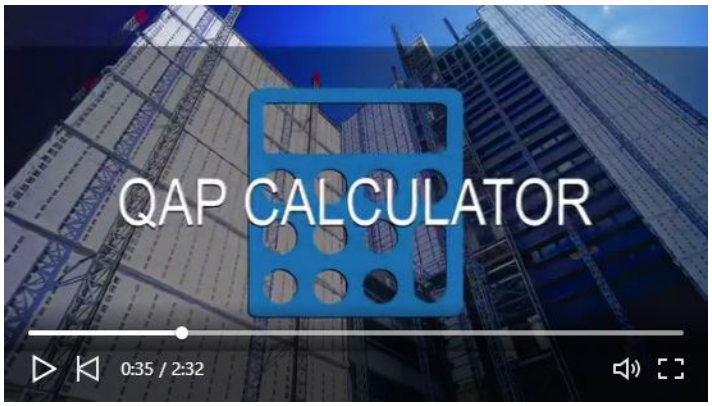
Secretary
Craig Wetmore
York Manufacturing, Inc.



Director at Large
Matt Giambrone
OCP Contractors, Inc.

air barrier
abaa
association of america

ABAA QAP CALCULATOR



Take advantage of our online tool, the QAP Calculator, to help you better understand the REAL cost associated with the ABAA Quality Assurance Program – learn why it's only a fraction of the construction cost. The ABAA QAP was carefully designed to limit the repair expenses associated with an air barrier that has already been buried in construction.

Save time, save money, and build a sustainable building in the process.

WHAT HAS ABAA BEEN DOING FOR OUR INDUSTRY?

AIR BARRIER EDUCATION FOR THE CONSTRUCTION INDUSTRY

JANUARY THRU MARCH

ATTENDEES	CONTINUING EDUCATION UNITS	EVENTS
3818	3889	53

36+ **WOW! WHAT DID YOU MISS?**
SOME OF THE FREE PRESENTATIONS & WEBINARS ON BUILDING ENCLOSURE COMPLETED THIS YEAR

SOME OF THIS YEAR'S COMPLETED FREE ABAA WEBINARS

- Air Barrier System Design; War Stories from the Front by John Arcidiacono
- Are You (and Your Building) Covered? by Pam Jergenson
- Air, Moisture Advancements & Coming Industry Change by Laverne Dalgleish
- How to Specify an Air Barrier by Roy Schauffele
- What is the Certified Air Barrier Specialist (CABS) Program? by Roy Schauffele
- Conveying Construction Drawing Clarity by Melissa Payne
- Detailing for Better Air Barriers in Wood Framed Buildings by James Higgins
- BNP Media Webinar; New Tools, Research and Site Quality by Ryan Dalgleish
- Building Science 101 by Ryan Dalgleish
- Spray Foam in Commercial Design by Grant Ostvig
- Big Building Air Barrier Testing by Torrance Kramer
- Wet and Wild – How Wet CMU Can Screw Up your Air Barrier Project and How to Minimize this Problem by Roy Schauffele
- Four Barriers for Four Wetting Potentials: Design Effective Exterior Wall Systems by Len Anastasi
- Masonry Flashing & Moisture Control by Jeff Diqui
- Stuff it or Wrap It: Understanding Advanced Wall Systems with Continuous Insulation by Todd Kimmel
- Observing Building Enclosures Leaking; Heat, Air & Water Using Infrared Thermography by Scott Wood
- A Sticky Subject – Adhesion of Air and Water Resistive Barrier Materials by Laverne Dalgleish

NEW

WHOLE BUILDING AIRTIGHTNESS TRAINING AND CERTIFICATION PROGRAM IS COMING!

SIGN UP TO BE NOTIFIED

HAVE AN INDUSTRY RELATED ARTICLE YOU WOULD LIKE TO SEE FEATURED IN OUR NEWSLETTER?

Submit it to us for review and you could see your work published in the next newsletter! Also, we would love to hear your feedback on our newsletters and any content you want to see more or less of?

Email it to us at: abaa@airbarrier.org

PARTNER WITH US! SOME OF THIS YEAR'S CO-SPONSORED EVENTS

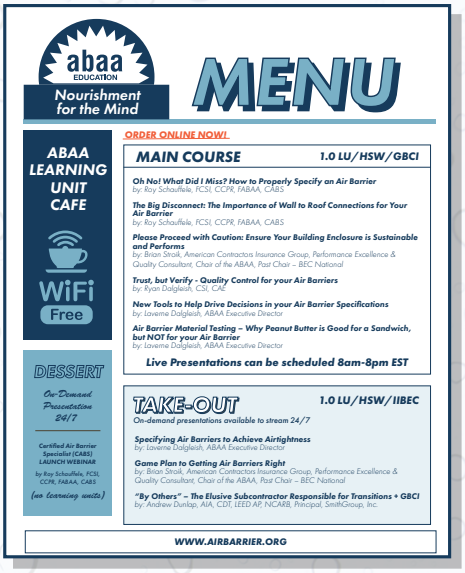
- CSI Northern Illinois; Through Wall Flashing Compatibility, Sustainability & Performance by Craig Wetmore
- BEC/AIA Tampa Bay; Applied Physics to Hot Climates, How to Specify an Air Barrier by Laverne Dalgleish, Roy Schauffele
- CSI Northern Illinois; New Tools to Drive Specification Decisions by Laverne Dalgleish
- CSI Webreach; How to Specify an Air Barrier by Ryan Dalgleish
- CSI San Antonio; Roof to Wall Connections by Roy Schauffele
- BNP Media; Achieving a High Performance Air Barrier by Ryan Dalgleish
- CSI Northern Illinois; The Elusive Subcontractor Responsible for Transitions by Andrew Dunlap
- AIA Eastern Kentucky Roof to Wall Connections by Roy Schauffele
- And others!

If you are involved in a local organization and would like ABAA to present a future half or full-day symposium, please reach out to Tamara Foncerrada at the ABAA office via email: tamara@airbarrier.org or by phone: (339) 206-1142.

ABAA continues to offer weekly webinars to the industry, every Thursday from 1:00-2:00pm EST. This webinar series includes a variety of industry leaders speaking on a range of air barrier topics and gives attendees the chance to ask questions in real time. All of the topics have been carefully selected and chosen to offset the lack of information or misinformation received out there and to address how we keep our building envelopes from failing.

Currently, our schedule is planned well into September. All webinars are available for registration on the ABAA website Events Tab.

https://airbarrier.org/events/category/webinars/


abaa EDUCATION
Nourishment for the Mind

MENU

ABAA LEARNING UNIT CAFE

WiFi Free

ORDER ONLINE NOW!

MAIN COURSE — 1.0 LU/HSW/GBCI

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

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

Please Proceed with Caution: Ensure Your Building Enclosure is Sustainable and Performs
by: Brian Strolk, 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

DESSERT
On Demand Presentations 24/7

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

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 Strolk, 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

HUNGRY FOR EDUCATION?

New to ABAA is 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.

For more information, please visit our website:

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

2021 INSTALLER TRAINING

SPRAYED POLYURETHANE FOAM INSTALLER TRAINING

Jul 13-15, 2021	Virtual
Sept 14-16, 2021	Virtual
Dec 7-9, 2021	Virtual

FIELD AUDITOR TRAINING

Oct 26-28, 2021	Virtual

SELF-ADHERED & FLUID APPLIED TRAINING

Jun 22-24, 2021	Virtual
Jul 27-29, 2021	Virtual
Aug 17-19, 2021	Virtual
Oct 5-7, 2021	Virtual
Nov 16-18, 2021	Virtual

REGISTER & GET CERTIFIED!

www.airbarrier.org/education/installer-courses/

MORE INSTALLER TRAINING THAN EVEN BEFORE!

ABAA continues to offer virtual installer training and will offer only virtual training for the first half of 2021. ABAA plans to re-evaluate the current situation come summer and the possibility of once again offering live on location training courses.

Current training programs are live sessions with expert instructors to answer questions, review the modules and provide support. This resource will be available for individuals to take refresher courses in the future. The certification exam will be done online, and the installer training manual will be sent to the installer for study prior to the course, which will enable them to take notes and study ahead of the program.

Watch your emails and social media for further details and release dates.

For information on programs and registration details, please visit the ABAA website here:

http://www.airbarrier.org/education/installer-courses/

2021 UPCOMING WEBINARS

June 24: Understanding Difficult Critical Transitions
July 8: Interfacing of Glazing Assemblies
July 15: Multizonal Infiltration Modeling of an Existing Building Guided by Empirical Tracer Gas Decay Test Data
July 22: ABAA T0002 Pull Adhesion Test Method – A Sticky Subject
July 29: Through Wall Flashings Compatibility, Sustainability and Performance
Aug 5: Preconstruction Meetings and Construction Quality
Aug 12: Waterproofing Used as Air Barrier
Aug 19: Detailing Exterior Walls for Performance and Constructibility
Aug 26: Moisture Durability

For details on upcoming free webinars, visit the ABAA website:

http://www.airbarrier.org/events/category/webinars/

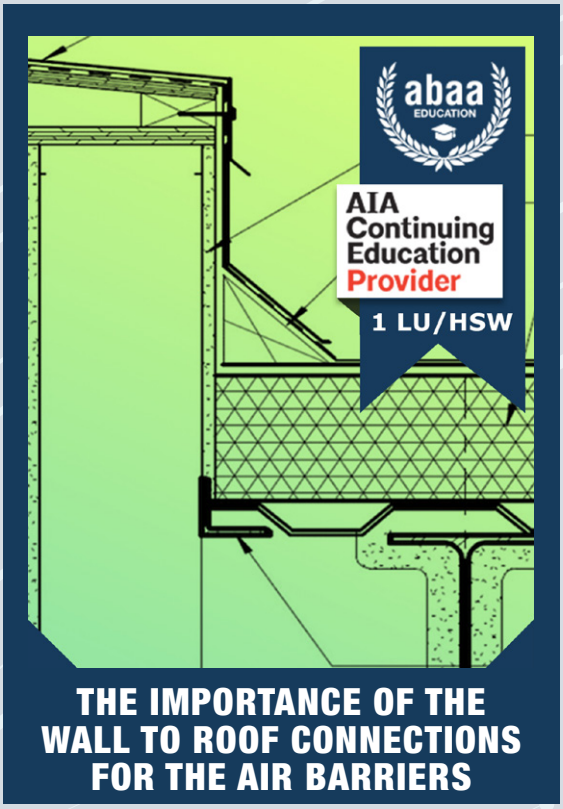
UPCOMING SYMPOSIUMS AND PRESENTATIONS

DATE	ORGANIZATIONS	LOCATION
15-Sep-21	IIBEC 2021 International. Conv. & Trade Show	Phoenix, AZ
23-Sep-21	Wagdy Anis Virtual Symposium on Building Science	Virtual

FREE ON-DEMAND AIR BARRIER TRAINING YOU CAN DO RIGHT NOW!

NEW TOOLS, RESEARCH AND SITE QUALITY IN THE AIR BARRIER INDUSTRY

https://bit.ly/3qYHSXT



THE IMPORTANCE OF THE WALL TO ROOF CONNECTIONS FOR THE AIR BARRIERS

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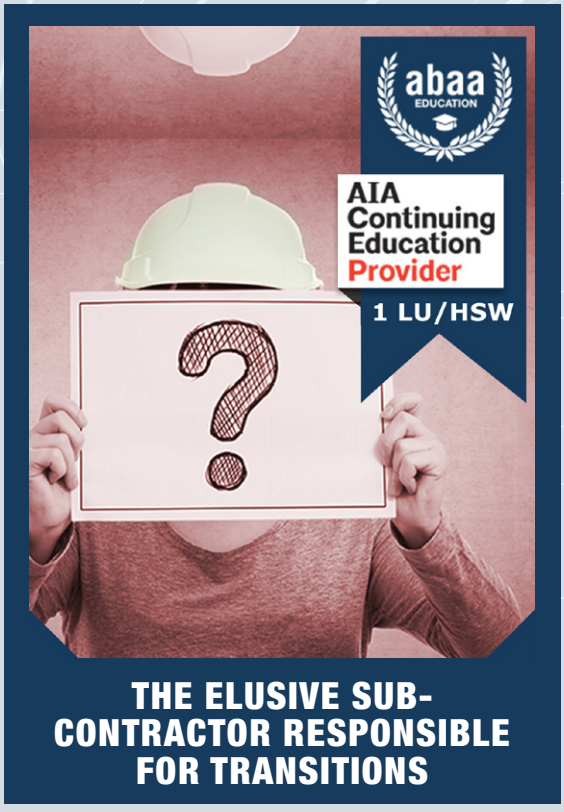

THE ELUSIVE SUB-CONTRACTOR RESPONSIBLE FOR TRANSITIONS

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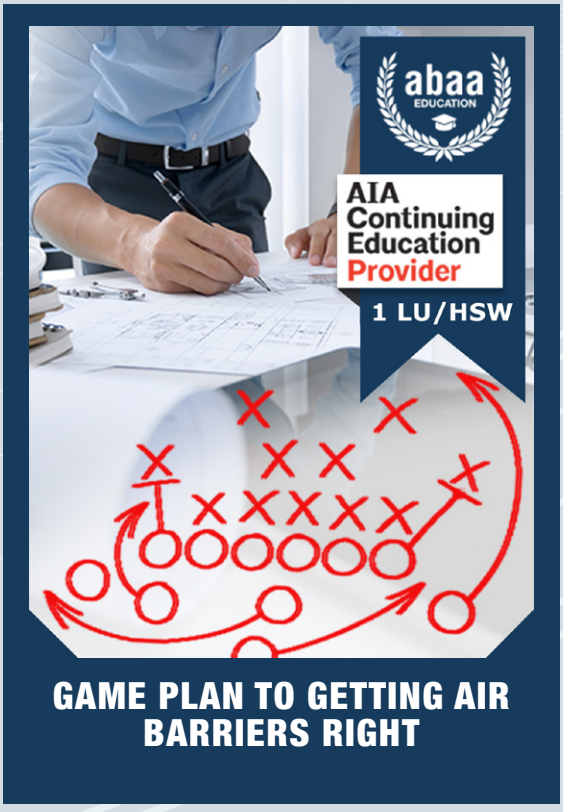


GAME PLAN TO GETTING AIR BARRIERS RIGHT

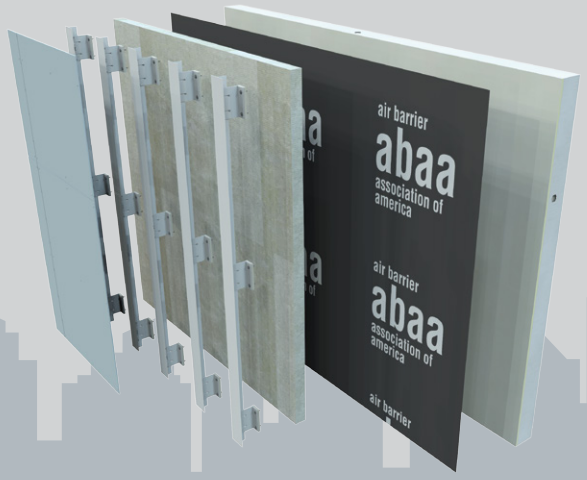
https://bit.ly/3bLk9pG

QAP BY THE NUMBERS

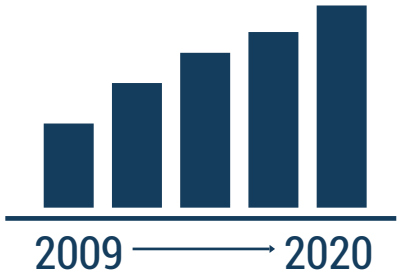
Building Confidence in the Air Barrier Assembly

70 Million

Sq. Ft. of QAP Audited Air Barrier Installations



5,000
Audits



ZERO
Reported Air Barrier Assembly Claims

107
Certified Products

2,200
Certified and Registered Installers

15,000
QAP Specified Projects

air barrier abaa association of america

The **Q**uality **A**ssurance **P**rogram designed for **architects, contractors and building owners** who want to **minimize risk** and **liability** within the building envelope.

Join the 15,000+ Projects that have Specified the QAP Program to Ensure a Quality Air Barrier Installation

View our Specs at airbarrier.org/QAP

FEATURE QAP PROJECT

ARCHITECT: TCA Architects
GENERAL CONTRACTOR: Oak Contracting/Wayne Temple
LOCATION: Columbia, MD
TYPE: New Middle School
VALUE: $32,000,000
BUILDING AREA (sq. ft.): 110,000
TOTAL AIR BARRIER AREA (sq. ft.): 39,670
ACCREDITED CONTRACTOR: Bel Air Foam & Roofing Inc.

This is the first Net Zero School in Maryland. We had to perform a whole building air leakage test to confirm the building's airtightness levels. When the testing was completed, the expected air leakage was less than half what the expected result was. The agency that performed the testing indicated that the testing results achieved was the best that they have ever observed. **> MORE**

QAP
Quality Assurance Program

ABAA is always looking for ways to promote the QAP with projects such as these. If you have a QAP project to showcase, email Louise at:

lhardman@airbarrier.org

Projects will be reviewed and upon acceptance, will be showcased on our weekly email and social media outlets.