air barrier **abaa abaa association of america CONFERENCE & TRADE SHOW** 

MARCH 26-27 2019 NORFOLK

AIR BARRIER EDUCATION TRACKS FOR THE CONSTRUCTION INDUSTRY

## **Industry Updates**

### Ryan Dalgleish

Air Barrier Association of America



Air Barrier Association of America (ABAA) is a Registered Provider with The American Institute of Architects Continuing Education Systems. Credit earned on completion of this program will be reported to CES Records for AIA members. Certificates of Completion for non-AIA members are available on request.

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### Ryan Dalgleish Air Barrier Association of America

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Phone: 866-956-5888

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**Commercial Sealants & Waterproofing** 

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### SECUROCK® EXOAIR® 430













SPECIFICATIONS STRATEGIC LIAISON RESEARCH COMMUNICATION OUTREACH **STANDARDS** TRAINING CERTIFICATION **QUALITY ASSURANCE GUIDELINES BUILDING CODES MATERIAL EVALUATIONS TECHNICAL** EDUCATION THE VOICE PUBLICATIONS

# INDUSTRY UPDATES

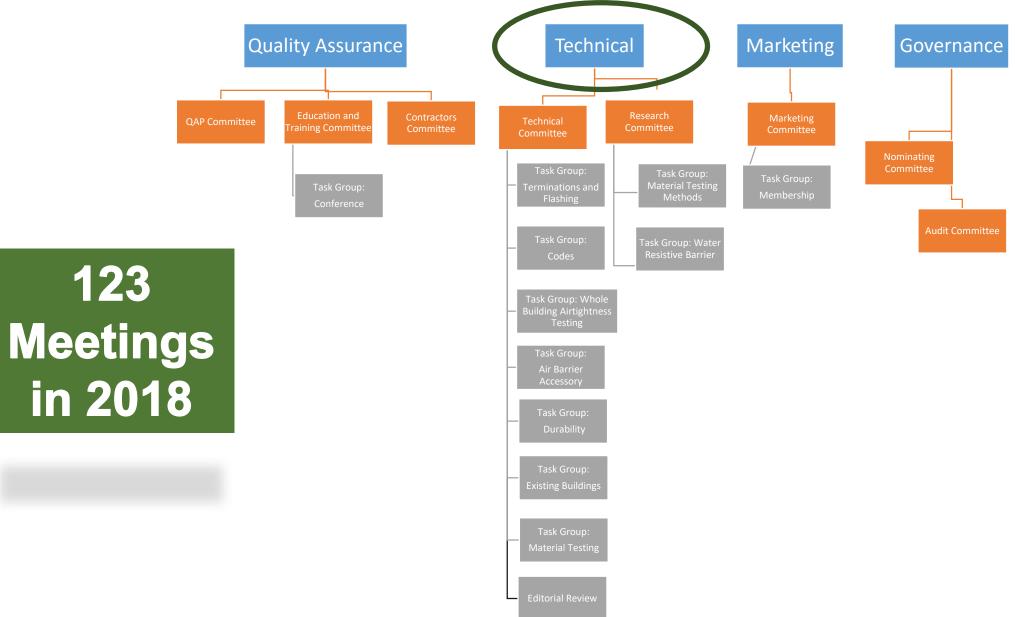
2018 AND 1<sup>ST</sup> QUARTER 2019

### **INDUSTRY UPDATES**

#### **KEY ITEMS FOR REVIEW**

- Research and Identified Research Projects
- Technical Committee Updates
- Education Design Professionals and Industry Stakeholders
- Quality Assurance Program

### OUR COMMITTEES







## RESEARCH

**REPORTS AND IDENTIFIED PRIORITIES** 

#### **KEY ITEMS FOR REVIEW**

- Update to Energy/Moisture Calculator
- Sub-Assembly test for air/water leakage of fasteners and small penetrations
- Upcoming Identified Research Goals for 2019

#### **EXPANSION OF ENERGY / MOISTURE CALCULATOR**

Hospital High Rise Apartment Large Hotel

Secondary School

#### **EXPANSION OF ENERGY / MOISTURE CALCULATOR**

9 1600 Boston-Providence	e Hwy Walpo	ole, MA 020	81 📞 +:	1 866-956-5888	+1 866-95	56-5819 🛛 🖉 a	baa@airbarrier.org	⊻ f	in	•	Login▼	
air barrier <b>abaa</b> association of america	Home	QAP	About	Join ABAA	Events	Education	Technical Information	Search Members	More	Contact	Conference	2

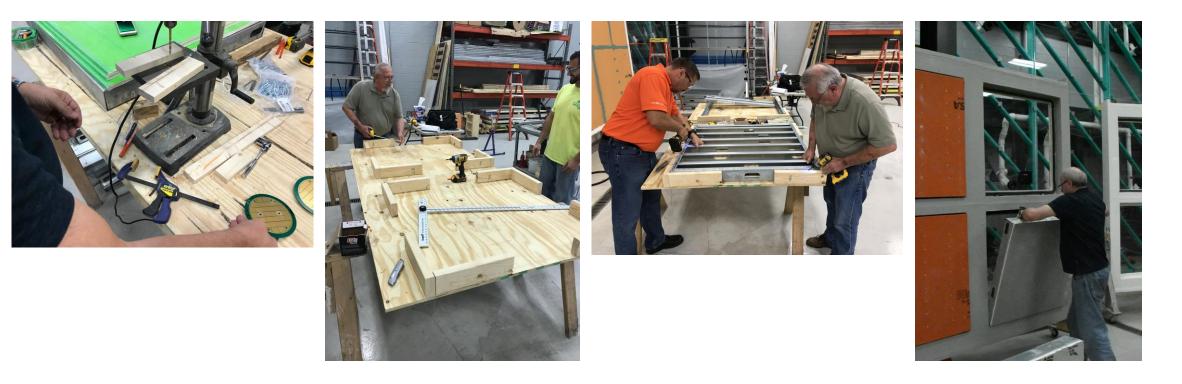


### Air leakage calculator results page

Leaka	ge Rate			Equ	iivalent Leakage Area	
Base Case	Retrofitted Buildin	g	Base 0	ase	Retrofit	ed Building
5.40 L/s/m² at 75 Pa	2.00 L/s/m² at 75 Pa	a	19.34	ft²	7	.16 ft²
					Cost Savin	gs \$
Predicted Savings	Electricity	Natu	ral Gas	3000		
Energy	9,502 kWh	329	,947 ft³	2000		
Cost	\$ 855.21	\$ 2,	397.77	1000		
Total Cost Savings	\$ 3	,252.98		0—	Electricity	Gas
					Moisture Transfe	Reduction
Moisture Transfer	Into the space Due to the Air Le	akage		2.0 1.5		
Base Case	Retrofitt	ed Building		1.0	_	
1.57 gal/ft²/year	0.46 g	al/ft²/year		0.5		
				0	Base Case	Retrofitted

#### **AIR/MOISTURE LEAKAGE AT FASTENERS AND PENETRATIONS**

Phase 1 - Research Plan put in place in regards to how testing will be conducted.



## **2019 Research Goals**

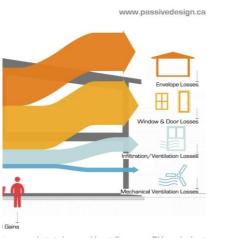
Energy Modelling Education Peel Test Comparisons

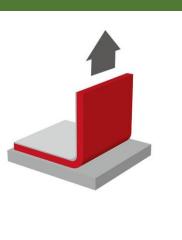
Site Air and Water Testing Methods

Durability of Air Barriers Over Time

Rain Criteria

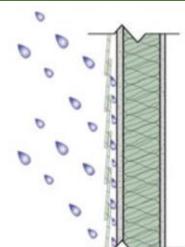
Air Leakage Impact on Permeable and Non-Permeable Materials





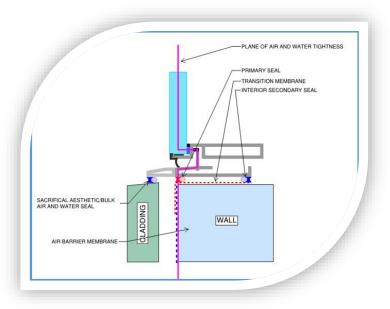












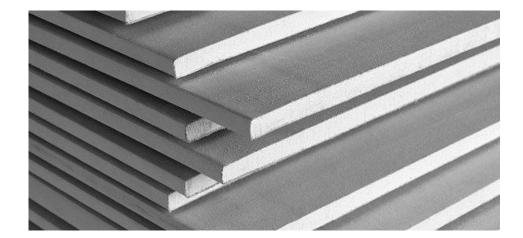
#### **KEY ITEMS FOR REVIEW**

- > Updating / New Material Performance Criteria for Air Barriers
- Air Barrier Accessories Evaluation Process
- Transitions and Terminations Guidance
- Technical Committee Goals for 2019

#### **UPDATING / NEW MATERIAL PERFORMANCE CRITERIA**



Fluid Applied

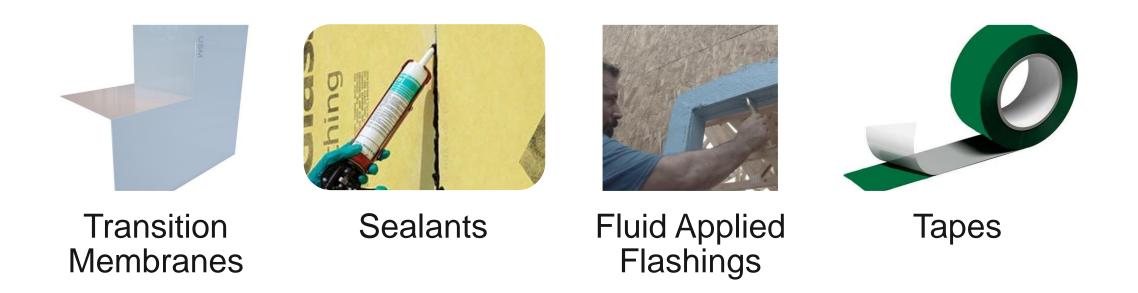




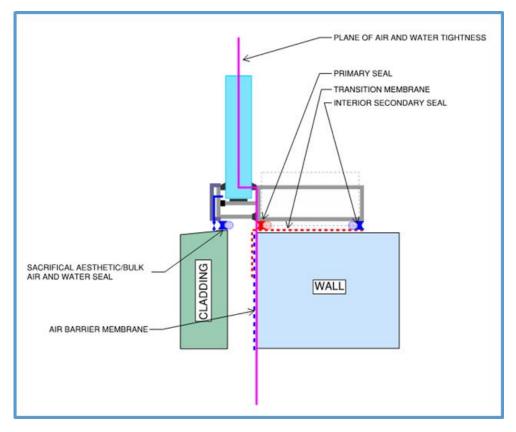
Non-Insulating Board Stock

Interior Polymer Film

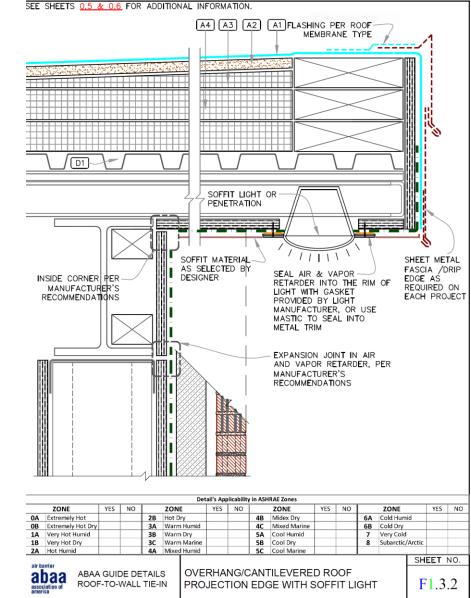
#### **AIR BARRIER ACCESSORIES EVALUATION CRITERIA**



#### **TEMINATION'S AND FLASHINGS**



#### Wall to Curtain Wall



Roof to Wall

### **2019 Technical Goals**

### New and Updated Material Evaluation Criteria

Case Studies on Performance and Energy Savings New and Updating 3-part Specifications by material type







## **INDUSTRY EDUCATION**



### **INDUSTRY EDUCATION**

## 4,500 attendees in 2018

## 15,000 CEU's in 2018

## **38 LOCATIONS**

**BEING PLANNED FOR 2019/2020** 

**EDUCATION** 



Chicago – BEC / IMI



#### Kansas City – BEC/IMI



Seattle – BEC



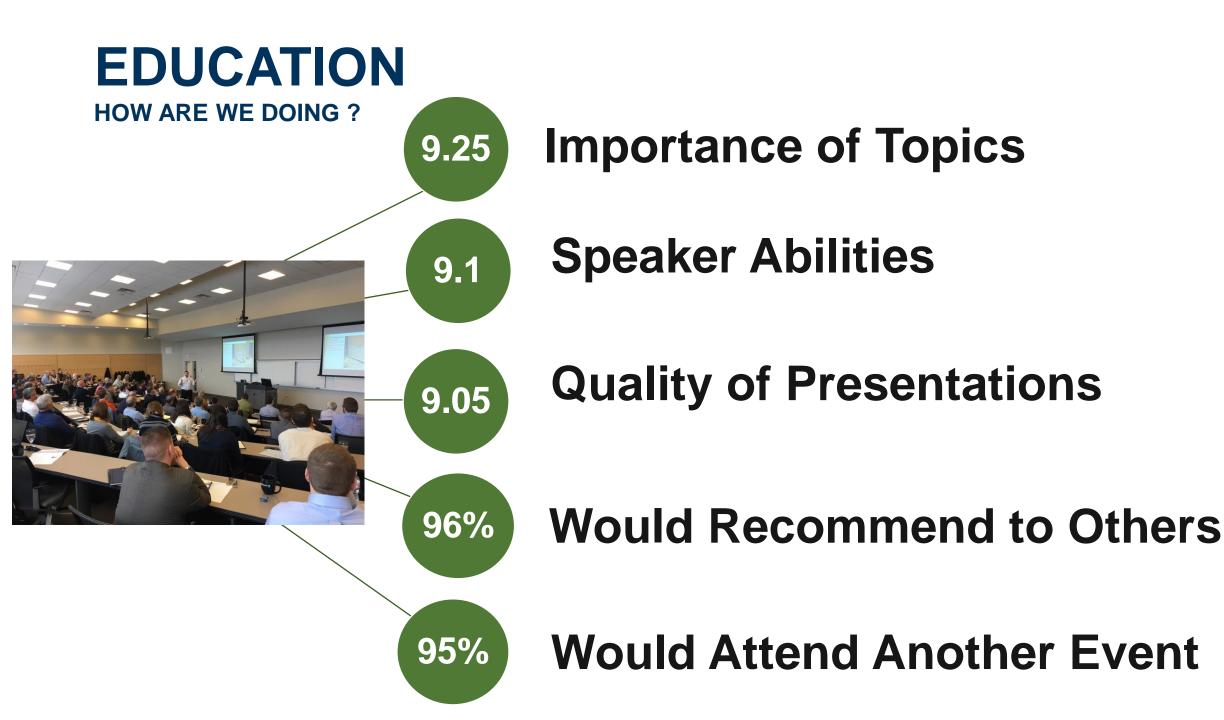




Detroit - BEC

Portland - BEC

Buffalo - AIA



### EDUCATION HALF DAY AND FULL DAY WORKSHOPS WITH HAND'S ON AND MOCK UPS



IF YOU CARE ABOUT FACADES AND THE BUILDING ENVELOPE YOU NEED TO BE HERE!

**IN A POST EVENT SURVEY, 100% OF PEOPLE** INDICATED THEY WOULD RECOMMEND THIS EVENT TO **OTHERS AND** 100% WOULD **COME TO ANOTHER EVENT** LIKE THIS.

From one of our attendees.

## ABAA SITE QUALITY ASSURANCE PROGRAM



### SITE QUALITY ASSURANCE PROGRAM PROGRAM UPDATING

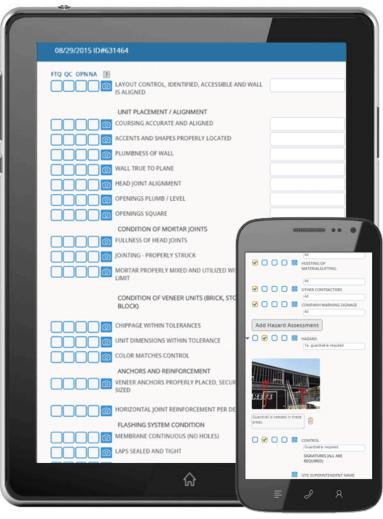
- Review of Demerit point systems for contractor and installers
- Updating of standardized audit reports
- Updating standards for corrective action based on installation errors and defects

			YES	NO	N/A	Installer	Contracto
Section 1- Air B	arrier Assembly Mater	ials					Contractor
Fluid-Applied Air Barr							
Manufacturer name:		Henry					
Primary air barrier mate	sial trade name:	Air-Bloc 32					
Lot/batch number:		Not available - number not on material					_
ls	the material being installed one	of the materials in the project specifications or has it been	x				
		approved by the specifier?					
	Are manufacturers in	stallation instructions on site and in installers possession? Installed material expiry date within limits?	X	<u> </u>			
		MSDS sheets on-site and in installers possession?		-			
Transition Material :							
Manufacturer name:		Henry					
Transition material trade	e name & type	Blue skin SA / Fiber Mesh Repair Fabric 183					
(FA or SA):							
Transition material lot/b	atch number:	BH200SA932					
Primer manufacturer: Primer trade name:		Henry					
Primer trade name: Primer lot/batch numbe		Henry 454 Aquatac P Material not on site to confirm					
Priner location number		stallation instructions on site and in installers possession?	X				
		Installed material expiry date within limits?	x				
		MSDS sheets on-site and in installers possession?	X				
Mastic/Sealant:							
Manufacturer:		Henry					
Mastic/sealant name:		925 BES					
Lot/batch number:		C36135					
	Are manufacturers in	stallation instructions on site and in installers possession?	X				
		Installed material expiry date within limits?					
		MSDS sheets on-site and in installers possession? n-site at time of audit as per manufacturers specifications?	X				
Corrections:	ir Bloc 21S, manufactured by Her that the installed material is appr	ny. The Air Bloc 32 was reportedly (by the installer) appro oved by the architect.				P	OINTS
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Specifications call for Ai Corractions Provide documentation	that the installed material is appr	oved by the architect.	YES			P	
Specifications call for Ai Corrections: Provide documentation Section 2 - Audi	that the installed material is appr	oved by the architect. On-site at time of audit?	YES			P	
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### SITE QUALITY ASSURANCE PROGRAM GOING DIGITAL

- Cloud Based Audit Reporting System
- Digital and App Based Daily Job Site Reports
- Centralized Database System for Analysis of Trends

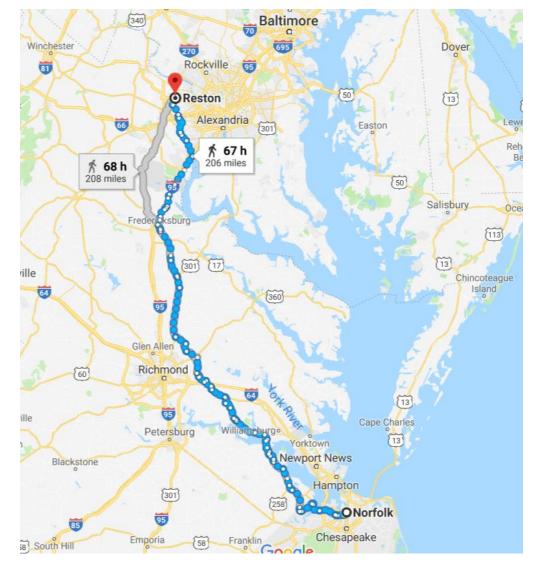




### **2020 ANNUAL CONFERENCE**

### **APRIL 7 & 8, 2020 RESTON, VIRGINIA**





#### SPECIFICATIONS STRATEGIC LIAISON CERTIFICATION COMMUNICATION OUTREACH **STANDARDS** TRAINING RESEARCH **QUALITY ASSURANCE GUIDELINES BUILDING CODES MATERIAL EVALUATIONS TECHNICAL** EDUCATION THE VOICE PUBLICATIONS