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



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> MARCH 26-27 2019 NORFOLK





TREMCO

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

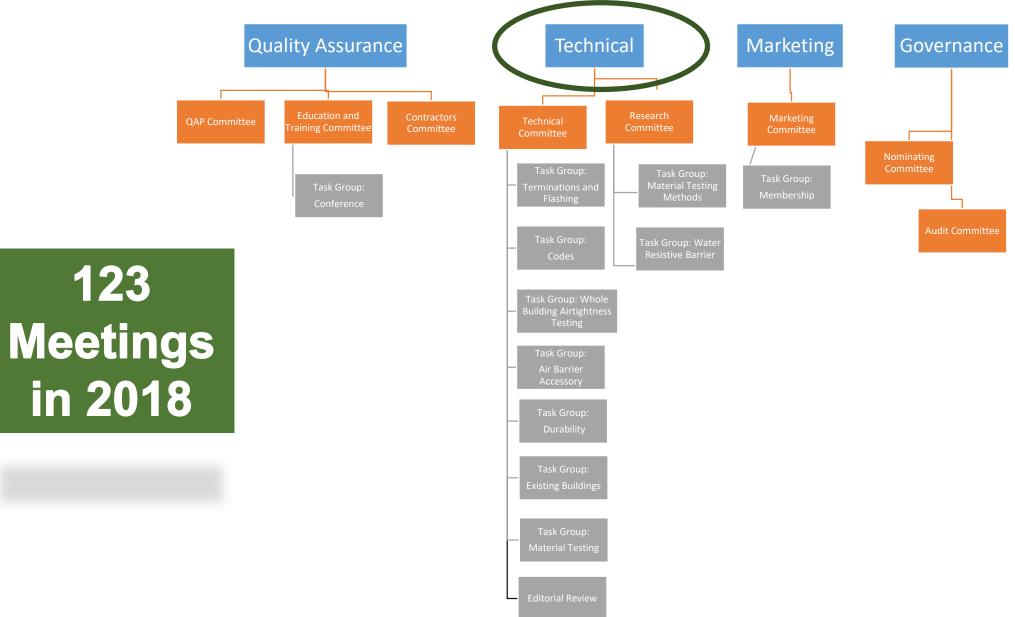
2018 AND 1ST QUARTER 2019

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

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air barrier abaa association of america	Home	QAP	About	Join ABAA	Events	Education	Technical Information	Search Members	More	Contact	Conference	2

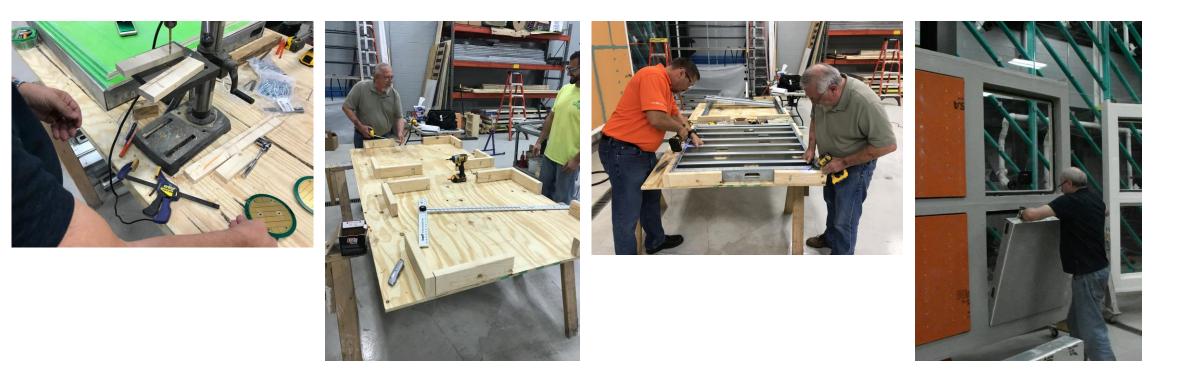


Air leakage calculator results page

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

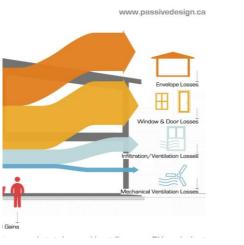
Energy Modelling Education Peel Test Comparisons

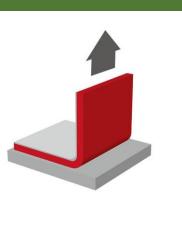
Site Air and Water Testing Methods

Durability of Air Barriers Over Time

Rain Criteria

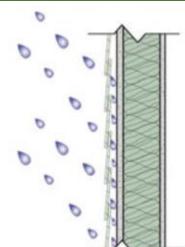
Air Leakage Impact on Permeable and Non-Permeable Materials

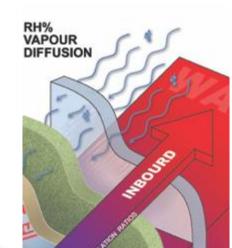




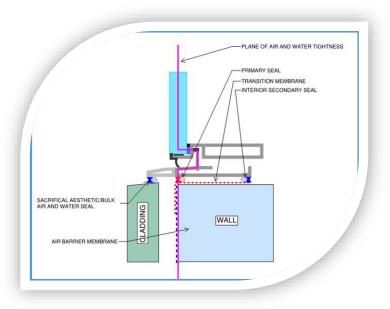












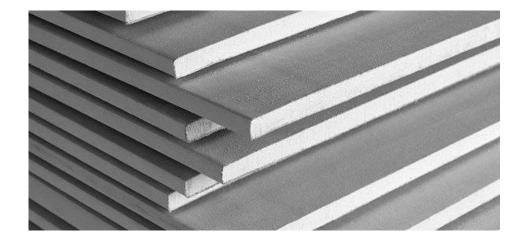
KEY ITEMS FOR REVIEW

- > 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

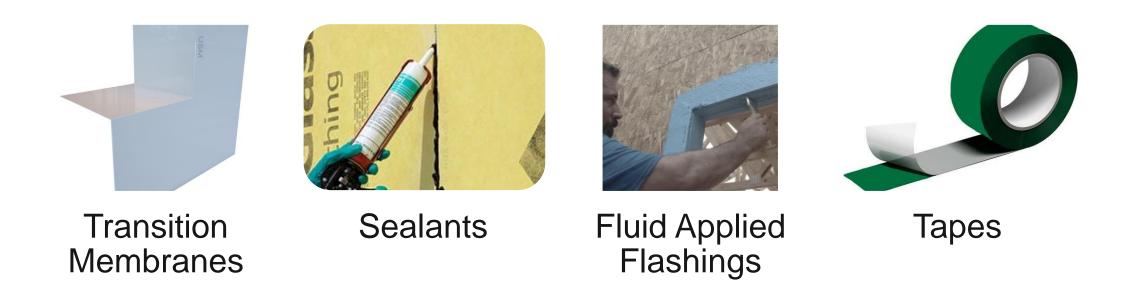




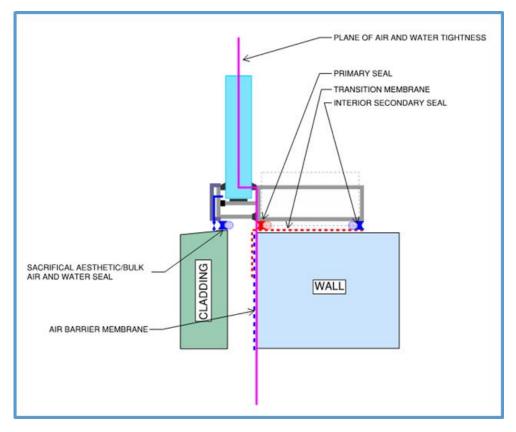
Non-Insulating Board Stock

Interior Polymer Film

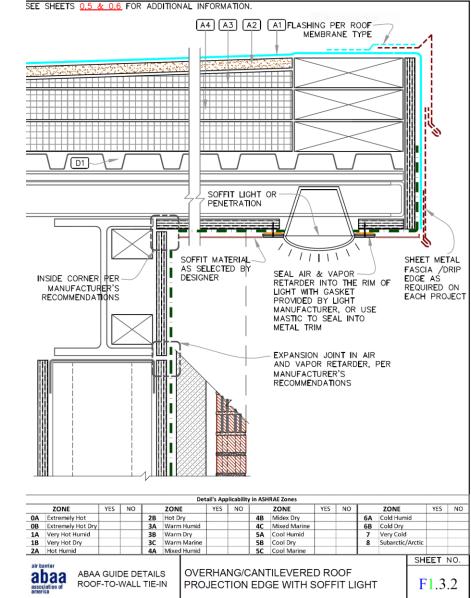
AIR BARRIER ACCESSORIES EVALUATION CRITERIA



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



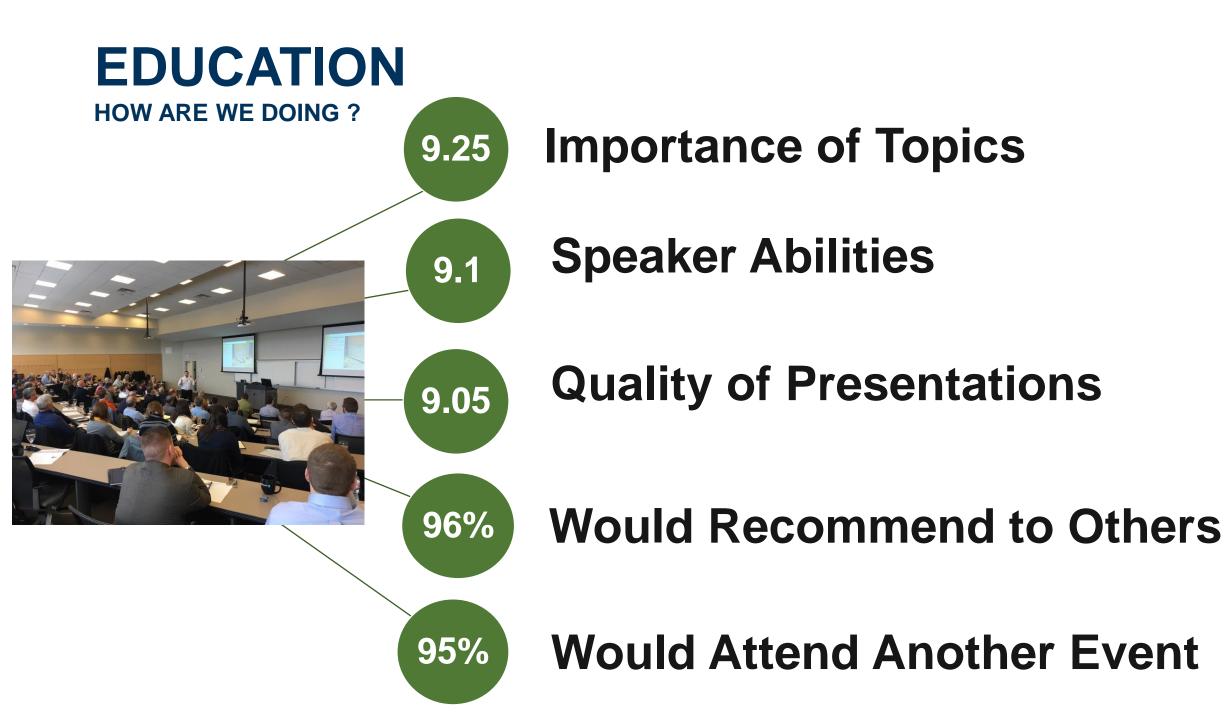




Detroit - BEC

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

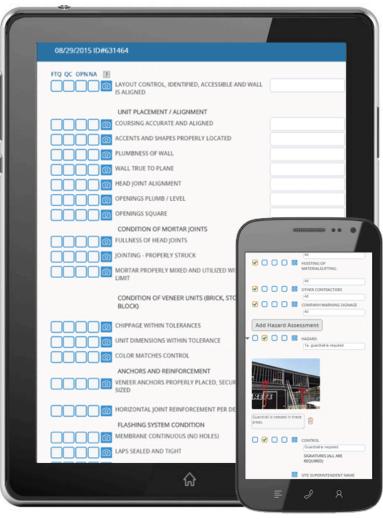
- Review of Demerit point systems for contractor and installers
- Updating of standardized audit reports
- Updating standards for corrective action based on installation errors and defects

			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

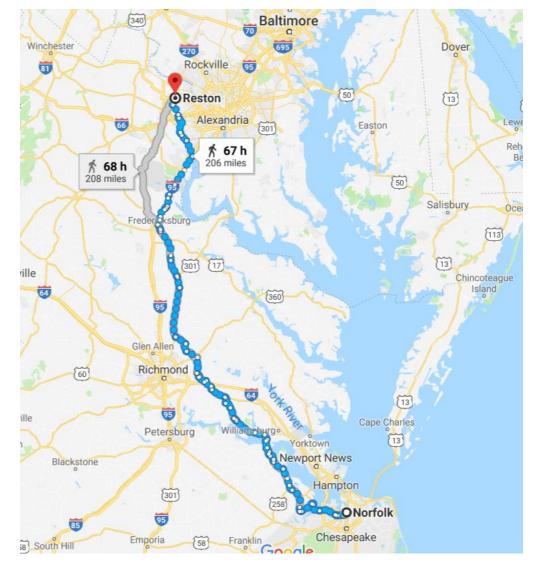




2020 ANNUAL CONFERENCE

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