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MAY 8-9 2018 SALT LAKE CITY

AIR BARRIER EDUCATION TRACKS FOR THE CONSTRUCTION INDUSTRY

Industry Updates

Ryan Dalgleish

Air Barrier Association of America



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air barrier association of america INFERENCE & TRADE SHOW

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ThankYou!





















SPECIFICATIONS

STRATEGIC LIAISON

RESEARCH

COMMUNICATION

OUTREACH

STANDARDS

TRAINING

CERTIFICATION

QUALITY ASSURANCE

BUILDING CODES

GUIDELINES

TECHNICAL

MATERIAL EVALUATIONS

THE VOICE

EDUCATION



PUBLICATIONS

INDUSTRY UPDATES

2017 AND 1ST QUARTER 2018



INDUSTRY UPDATES

KEY ITEMS FOR REVIEW

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







RESEARCH

REPORTS AND IDENTIFIED PRIORITIES



KEY ITEMS FOR REVIEW

- Adhesion of Air Barrier materials to the substrate field results over 15 years
- Update to Energy/Moisture Calculator
- Sub-Assembly test for air/water leakage of fasteners and small penetrations
- Other identified Research



ADHESION OF AIR BARRIERS TO SUBSTRATE

- Determine the adhesion values needed for a material when installed on a substrate
- Current material evaluation requirements for lab testing for manufacturers is a minimum of 16 psi
- What is a realistic performance requirements and how well does it actually have to adhere?





ADHESION OF AIR BARRIERS TO SUBSTRATE

- Lab Tests vs. Field Testing
- Many field related low adhesion values are related to a variety of factors:
 - Poor substrate preparation
 - Installation outside parameters of proper installation
 - > The type of substrate







Update test
method to make
it specific to air
barriers

Review 15 years
of audit reports
and daily job site
records

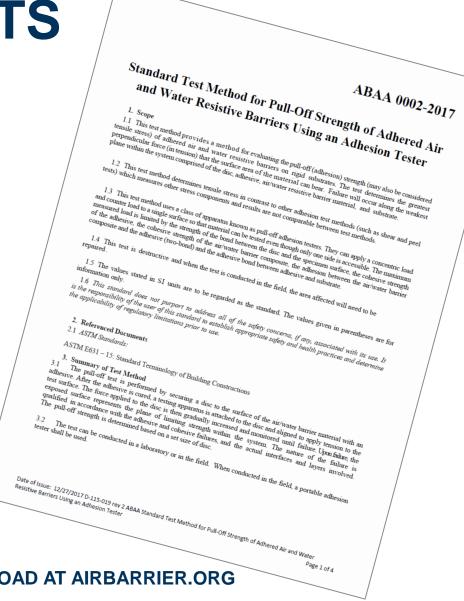
Conduct
Research to
determine what
values should be



Update test method to make it specific to air barriers

COMPLETE





AVAILABLE FOR DOWNLOAD AT AIRBARRIER.ORG

WWW.AIRBARRIER.ORG/TECHNICAL-INFORMATION/ABAA-ARTICLES-STANDARDS

Review 15
years of
audit reports
and daily job
site records
and analyze
data

COMPLETE



SOME RESULTS

- ➤ 3656 records reviewed. Each record could have up to 3 values
- 2393 lines of analysis by material type, manufacturer, substrate.
- A snap shot summary
 - > Average PSI: 23.32 Median: 20.10
 - The material type is fairly close in regards to adhesion performance
 - Substrate type makes a difference

EXPANSION OF ENERGY / MOISTURE CALCULATOR

- Addition of 4 architypes
 - ➤ High Rise Apartment
 - > Hospital
 - Large Hotel
 - Secondary School
- ▶ 60 locations
- 4 levels of airtightness



See how much you could be saving with an airtight building



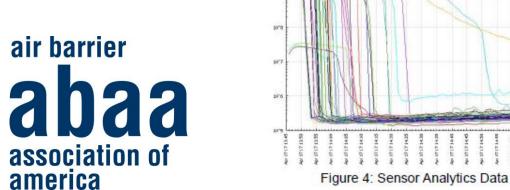
ABAA Energy Savings Calculator

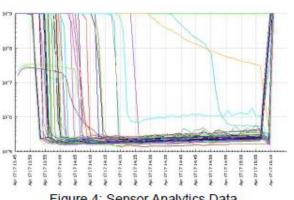
The Air Barrier Association of America, in conjunction with Oak Ridge National Laboratories (ORNL) and the National Institute of Standards and Technology (NIST) have completed the creation of a web based energy saving calculator for building airtightness.

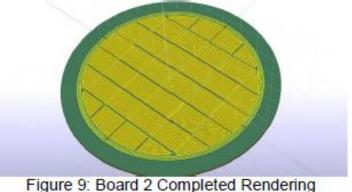
This new tool is available to everyone and is free!

UPDATE TO MOISTURE SENSOR FOR RESISTENCE TO WATER PENETRATION

- Round robin testing of sensor on a number of commercial available air barriers - 6 different organizations
- Creation of New Test Method to replace existing AATCC 127
- Intent is to have a much more objective test without subjectivity.









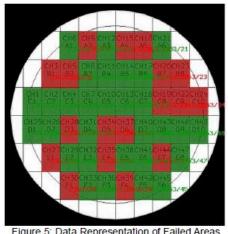


Figure 5: Data Representation of Failed Areas

AIR/MOISTURE LEAKAGE AT FASTENERS AND PENETRATIONS

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

Creation of a comprehensive list of screws, cladding attachments, insulation anchors and brick ties.







Penetration Type	Manufacturer	Description
3 units to be tested		
Screws		
#6 self taping		Set flush
#8 self taping		Set flush
#10 self taping		Set flush
#12 self taping		Set flush
#6 self taping w/ sealant		Set flush
#8 self taping w/ sealant		Set flush
#10 self taping w/ sealant		Set flush
#12 self taping w/ sealant		Set flush
#6 self taping w/ gasket		Set flush
#8 self taping w/ gasket		Set flush
#10 self taping w/ gasket		Set flush
#12 self taping w/ gasket		Set flush
Cladding Attachement Device		
Cascadia Clip	Cascadia	Fiberglass Standoff
Cascadia Clip (w/ membrane)		
MFI System	Knight Wall System	Galvanized Metal Standoff with Plastic Shim
MFI System (w/ bed sealant)		
MFI System (w/ bed and head sealant)		
Green Girt Smartci	Advanced Architectural Products	Fiberglass Z-girt
Green Girt Smartci (w/ bed sealant)		
Green Girt Smartoi (w/ bed and head sealant)		
Stand-off MPV Bracket	Exo-Tec Manufacturing, Inc.	Adjustable threaded metal stand-off
Stand-off MPV Bracket (w/ bed sealant)		
Stand-off MPV Bracket (w/ bed and head sealant)		
Generic cladding bracket Generic cladding bracket (w/ bed sealant)		
Generic cladding bracket (w/ bed sealant) Generic cladding bracket (w/ bed and head sealant)		
Studeo lathe		
Studdo latrie		
Insulation Anchors		
Metal Stick Pins (untreated)	Various	perforated metal base plate with metal pin and retaining washer
Metal Stick Pins (w/ bed sealant)	Various	perforated metal base plate with metal pin and retaining washer
Metal Stick Pins (w/ bed and head sealant)	Various	perforated metal base plate with metal pin and retaining washer
Brick Tie		
Model 2401 Adjustable veneer anchor	Wire Bond (and others)	surface mount two piece galvanized brick tie
Model 2401 Adjustable veneer anchor (w/ bed sealant)	Wire Bond (and others)	surface mount two piece galvanized brick tie
Model 2401 Adjustable veneer anchor (w/ bed and head sealar		surface mount two piece galvanized brick tie
Thermal 2 seal wing nut anchor (w/ extruded)	Hohmann and Barnard (and others)	Self tapping brick tie that is installed through the insulation
Thermal 2 seal wing nut anchor (w/ mineral wool)	Hohmann and Barnard (and others)	Self tapping brick tie that is installed through the insulation
Slotted Stud Tie Type I	Fero	Galvanized plate that penetrates throught the AWB and GWB, anchored to side of studs
Rain Screen Accessories		
Sheet metal flashing	Various manufacturers/fabricators	
Terminations bars		





UPDATES



KEY ITEMS FOR REVIEW

- Updating Material Performance Criteria and adding accessories
- Development of Material Specifications
- New Material evaluation published



UPDATING MATERIAL PERFORMANCE CRITERIA

- > Review, updates and propose improve material evaluation criteria for 9 materials for:
 - ➤ Air residence (fastener sealability, air leakage)
 - ➤ Water resistance (absorption, resistance, vapor transmission)
 - Adhesion (peel, lap, pull)
 - Mechanical properties (tensile, compressive, resistance to tearing, puncture)
 - Physical properties (crack bridging, dimensional stability, density)
- ➤ Begin to create performance criteria for accessories such as tapes, sealants, transition membranes and other related materials that are part of air barrier assembly









NEW MATERIAL SPECIFICATIONS

- More comprehensive outline for material evaluation process
 - Sampling procedures, sample panels, conditioning, preparation of test specimens,
- > Transition all material evaluation criteria into separate standards for each product type



NEW MATERIAL EVALUATION FOR OPEN CELL FOAM

- Published in November of 2017
- Material specification developed and now manufacturer can submit materials to be evaluated under this product type









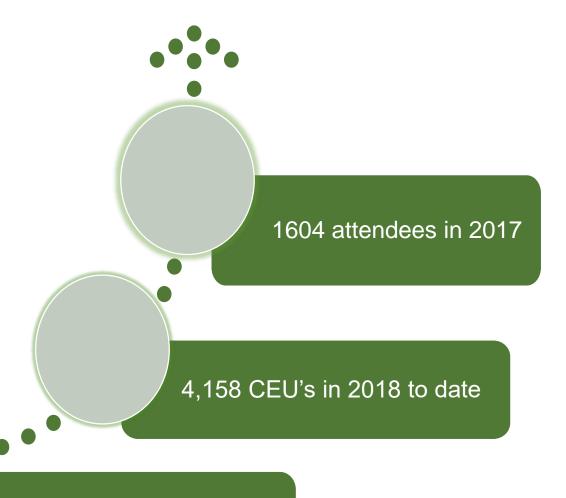




KEY ITEMS FOR REVIEW

- New Education for Design Professionals and Industry Stakeholders
 - ➤ Full Day Program available in conjunction with AIA, CSI, BEC, IMI and other identified partners

½ Day Program with mock-up's and lecture



2,580 CEU's in 2017





Cleveland, OH - BEC



Philadelphia – BEC/AIA



Tampa – BEC/AIA





Orlando, FL - AIA



San Francisco, CA -AIA



Detroit, MI - BEC

EDUCATION TESTIMONIALS

I think this might be the best CEU I personally have attended in last 30 years for Architecture and constructions license requirements and AIA CEU's; so I have been probable 350-400 CEU courses varying from 1 hour to 24 hours in 3 days. What a demonstration to ABAA for actually accomplishing and disseminating its educational objective; well done.

Larry Dickie, AIA, CPC St. Petersburg College Facilities Project Coordinator

We wanted to thank you and ABAA for hosting a great ABAA Symposium on Tuesday. You were truly awesome and better than we expected. We continue to receive complements from our attendees about your symposium. It is awesome for the BECs to have such great support from ABAA. You are a wonderful asset to the AEC community; we hope that all of the professional education that you provide will continue to help everyone to better understand building science so they can design and construct higher performing and better energy efficient buildings. Keep up the great work and thank you again for your generosity!

Cheryl Smith AIA, LEED-AP Principal Cope Linder Architects



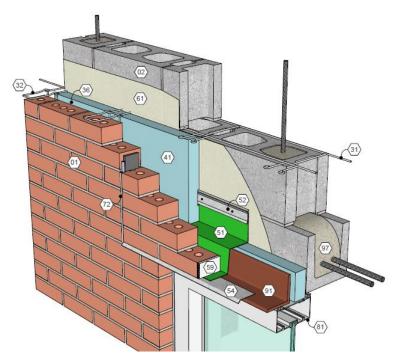
Thank you for an excellent program today. Architects need to get educated on air barriers and many other building science topics. I sometimes tell people I manage remedial education for architects, helping them to learn things they should have been taught in school but weren't!

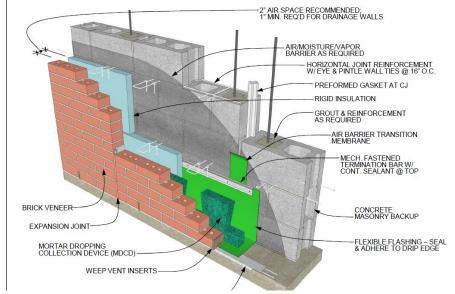
Most importantly, I would like to work with you, AIASF, and AIA California Council to get this information out to design teams in the state. I'm working with AIACC on how to get their members up to speed to meet California's

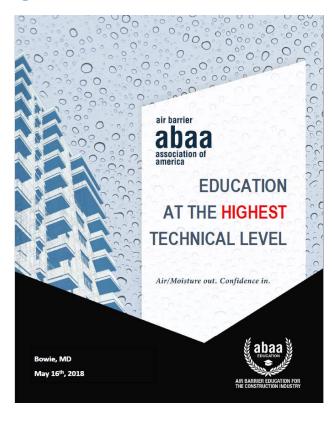
Thanks again for today's good work.

Bill Burke, Architect, LEED BD&C | Energy Centers Building Enclosure Coordinator Pacific Gas and Electric Company

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









ABAA SITE QUALITY ASSURANCE PROGRAM





SITE QUALITY ASSURANCE PROGRAM

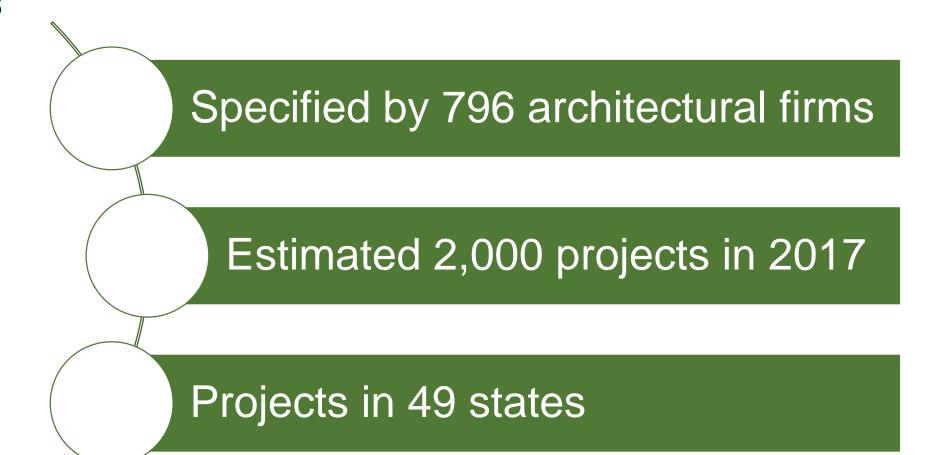
KEY ITEMS FOR REVIEW

- > Statistics for 2017
- Program Updating during 2017
- Updated specifications for Unified Facilities (Army, Navy, Airforce, etc)



SITE QUALITY ASSURANCE PROGRAM

STATISTICS





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	OINTS Contract
Section 1- Air Barrier	Assembly Materials						
Fluid-Applied Air Barrier Materi	lal:						
Manufacturer name: Primary air barrier material trade		Henry Air-Bloc 32					
Primary air barrier material trade : Lot/batch number:		Air-Bloc 32 railable - number not on material					
		aterials in the project specifications or has it been					
	Are manufacturare inetallation	approved by the specifier? instructions on site and in installers possession?		_			
		Installed material expiry date within limits?	X				
Transition Material:	M	ISDS sheets on-site and in installers possession?	X				
Transition Material: Manufacturer name:		Henry					
Transition material trade name &	type Blue skin	SA / Fiber Mesh Repair Fabric 183					
(FA or SA): Transition material lot/batch numl		BH200SA932					
Primer manufacturer:	ber:	Henry					
Primer trade name:		Henry 454 Aquatac P					
Primer lot/batch number:		laterial not on site to confirm instructions on site and in installers possession?	X				
		Installed material expiry date within limits?	X				t
	M	ISDS sheets on-site and in installers possession?	X				
Mastic/Sealant: Manufacture:		Henry					
Mastic/sealant name:		925 BES					
Lot/batch number:		C36135					
	Are manufacturers installation	instructions on site and in installers possession? Installed material expiry date within limits?	X	<u> </u>			F
	M	Installed material expiry date within limits? ISDS sheets on-site and in installers possession?		-	\vdash		_
Are all m	naterials being stored on-site at t	ime of audit as per manufacturers specifications?	X				-
Observations: Specifications call for Air Bloc 21: Corrections: Provide documentation that the in		Air Bloc 32 was reportedly (by the installer) appropriate architect.		s an a		Р	OINTS
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SITE QUALITY ASSURANCE PROGRAM UNIFIED FACILITIES SPECIFICATIONS

- Updated during the summer and fall of 2017 -USACE / NAVFAC/ AFCEC / NASA
- Recently releases and now include requirements for ABAA QAP, contractors, manufacturers, installers and audit program.



UNIFIED FACILITIES GUIDE SPECIFICATION

References are in agreement with UMRL dated January 2018

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SELF-ADHERING AIR BARRIERS

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- ...8 QUALITY ASSURANCE
- 1.8.1 Qualifications of Manufacturer

Submit documentation verifying that the manufacturer of the self-adhering air barrier is currently accredited by Air Barrier Association of America (ABAA Accreditation https://www.airbarrier.org/).

1.8.2 Qualifications of Installer

Submit documentation verifying that installers of the self-adhering air barrier are currently certified in accordance with the ABAA QAP Quality Assurance Program (https://www.airbarrier.org/qap/).



WHAT'S HAPPENING IN 2018?

- Continued Increase in Education to Industry Stakeholders
- More tools for designers and owners to assess energy savings and moisture impacts due to air leakage
- Continued Research and Technical work to create standards, provide information to improve design, construction and testing.



2019 ANNUAL CONFERENCE

MAY 14 – 16, 2019

NORFOLK, VIRGINIA





SPECIFICATIONS

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CERTIFICATION

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