



Industry Updates

Ryan Dalglish

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.

This program is registered with the AIA/CES for continuing professional education. As such, it does not include content that may be deemed or construed to be an approval or endorsement by the AIA of any material of construction or any method or manner of handling, using, distributing, or dealing in any material or product.



Ryan Dalglish

Air Barrier Association of America

Email: rdalglish@airbarrier.org

Phone: 866-956-5888



Thank You!



SECUROCK® EXOAIR® 430



Architect's
Newspaper

SPECIFICATIONS

STRATEGIC LIAISON

RESEARCH

COMMUNICATION

OUTREACH

TRAINING

STANDARDS

QUALITY ASSURANCE

CERTIFICATION

BUILDING CODES

GUIDELINES

TECHNICAL

MATERIAL EVALUATIONS

EDUCATION

THE VOICE

PUBLICATIONS

INDUSTRY UPDATES

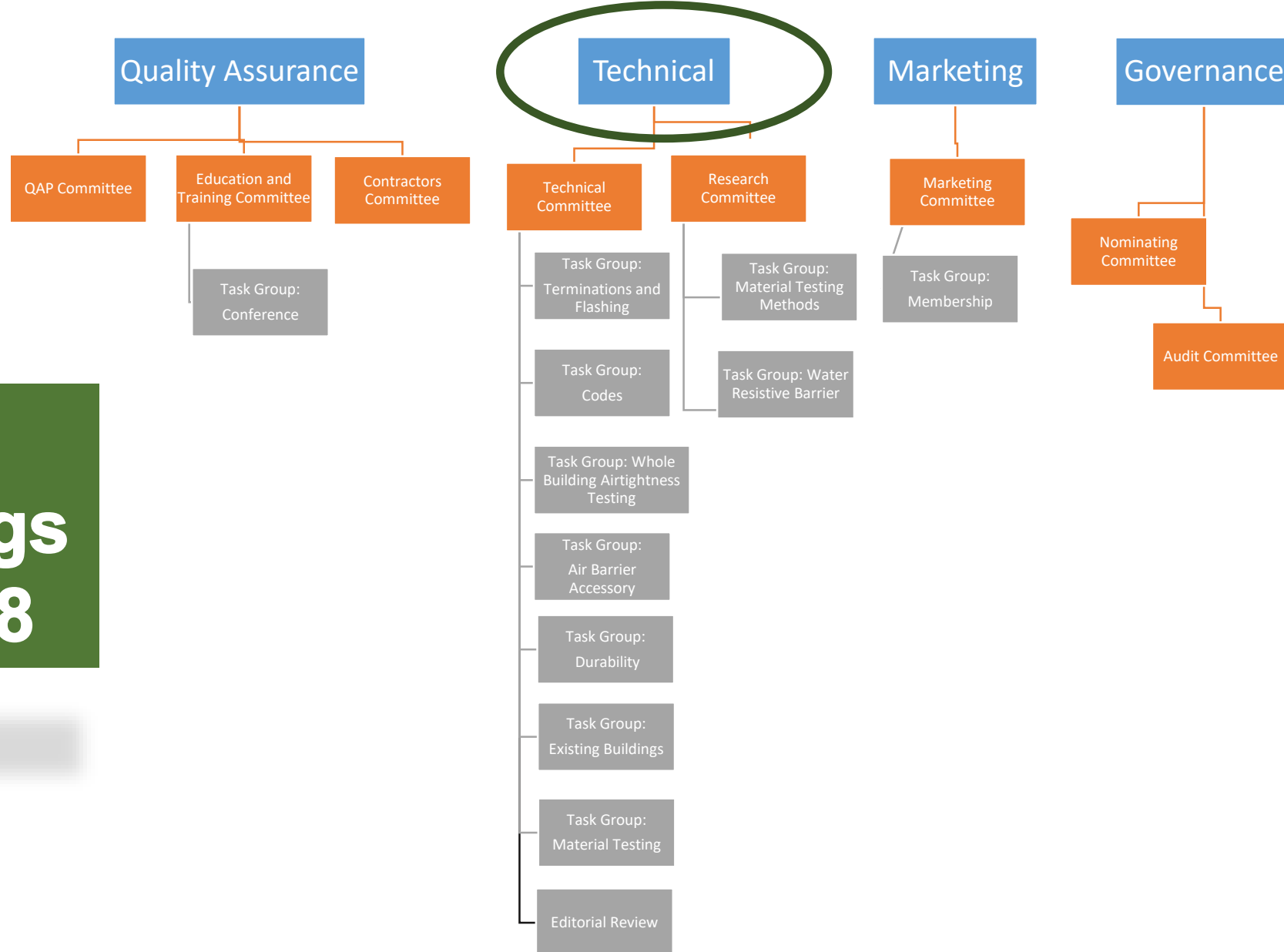
2018 AND 1ST QUARTER 2019

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



123
Meetings
in 2018



RESEARCH

REPORTS AND IDENTIFIED PRIORITIES

RESEARCH PROJECTS

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

RESEARCH PROJECTS

EXPANSION OF ENERGY / MOISTURE CALCULATOR

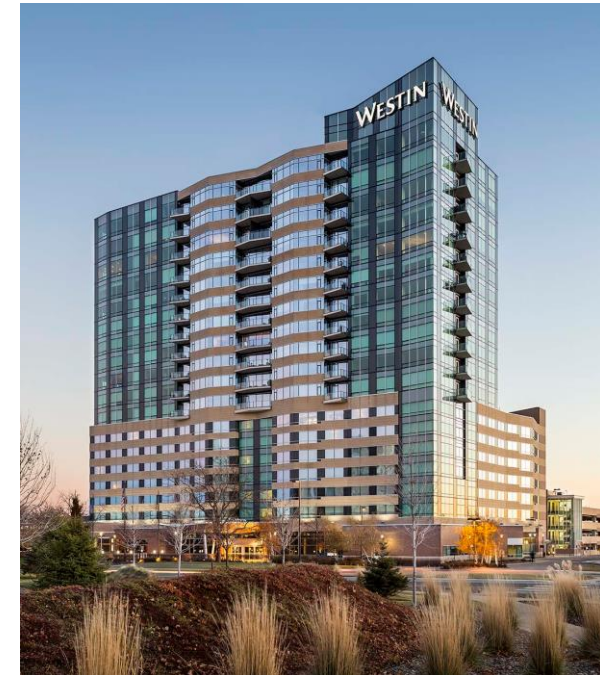
High Rise Apartment



Hospital



Large Hotel



Secondary School

RESEARCH PROJECTS

EXPANSION OF ENERGY / MOISTURE CALCULATOR

1600 Boston-Providence Hwy Walpole, MA 02081 +1 866-956-5888 +1 866-956-5819 abaa@airbarrier.org

Twitter Facebook LinkedIn YouTube Instagram Login

air barrier
abaa
association of
america

Home QAP About Join ABAA Events Education Technical Information Search Members More Contact Conference

ABAA CONFERENCE 2019

March 26-27, 2019

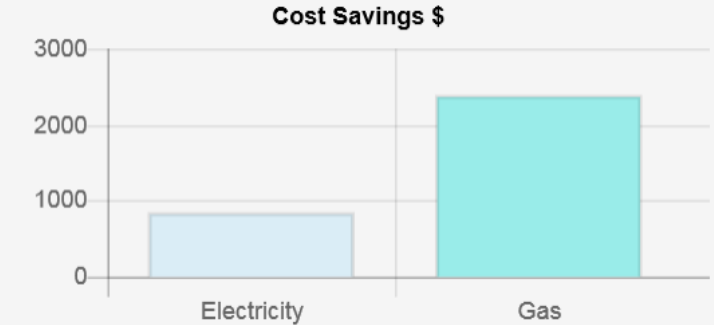
Sheraton Norfolk Waterside Hotel | Norfolk, VA

FIND OUT MORE

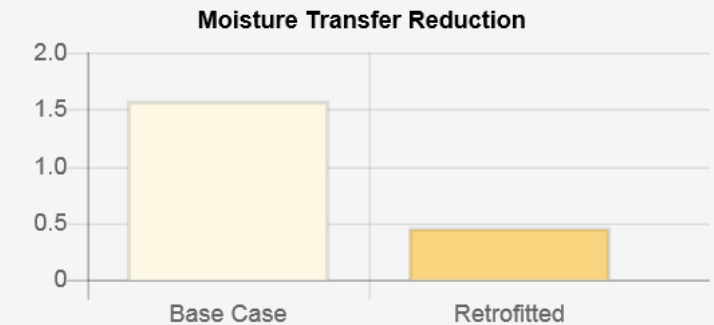
Air leakage calculator results page

Leakage Rate		Equivalent Leakage Area	
Base Case	Retrofitted Building	Base Case	Retrofitted Building
5.40 L/s/m ² at 75 Pa	2.00 L/s/m ² at 75 Pa	19.34 ft ²	7.16 ft ²

Predicted Savings	Electricity	Natural Gas
Energy	9,502 kWh	329,947 ft ³
Cost	\$ 855.21	\$ 2,397.77
Total Cost Savings	\$ 3,252.98	



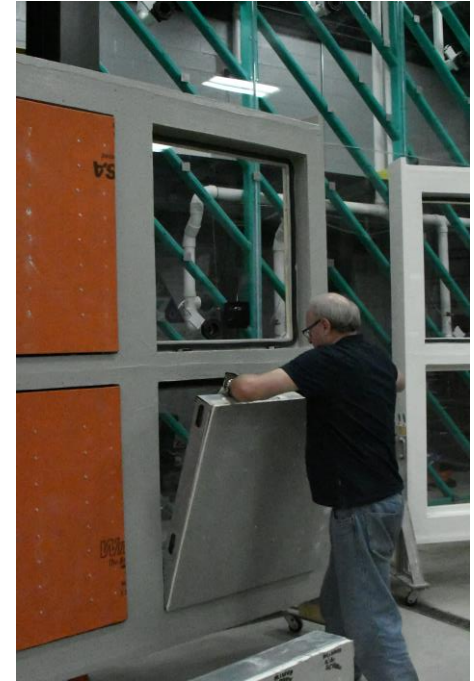
Moisture Transfer Into the space Due to the Air Leakage	
Base Case	Retrofitted Building
1.57 gal/ft ² /year	0.46 gal/ft ² /year



RESEARCH PROJECTS

AIR/MOISTURE LEAKAGE AT FASTENERS AND PENETRATIONS

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



RESEARCH PROJECTS

2019 Research Goals

Energy
Modelling
Education

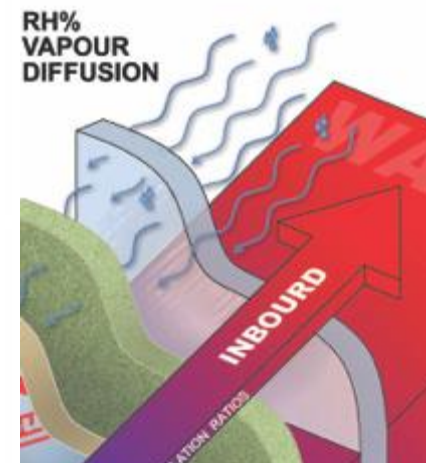
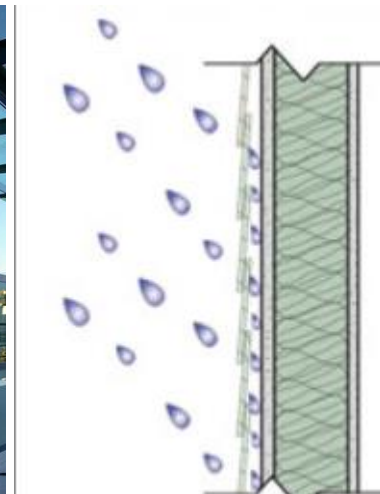
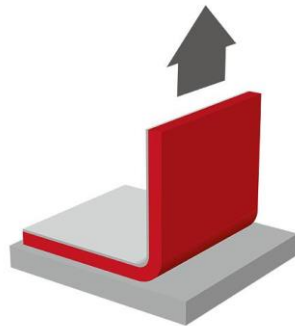
Peel Test
Comparisons

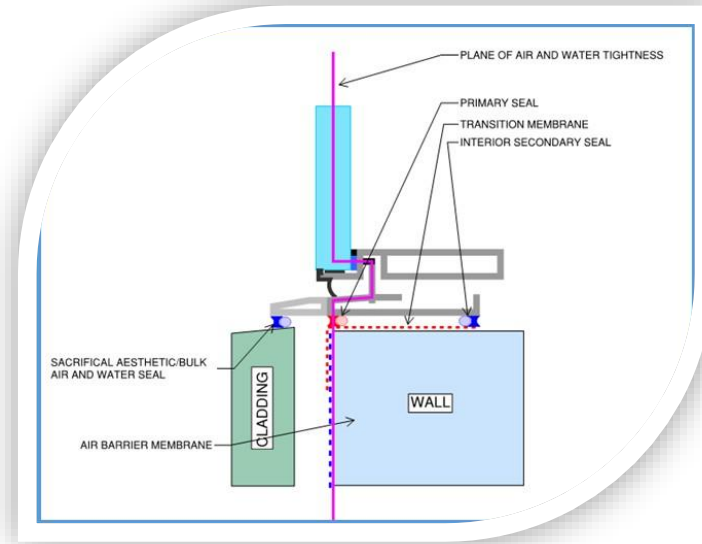
Site Air and
Water Testing
Methods

Durability of
Air Barriers
Over Time

Rain Criteria

Air Leakage
Impact on
Permeable
and Non-
Permeable
Materials





TECHNICAL COMMITTEE

UPDATES

TECHNICAL COMMITTEE

KEY ITEMS FOR REVIEW

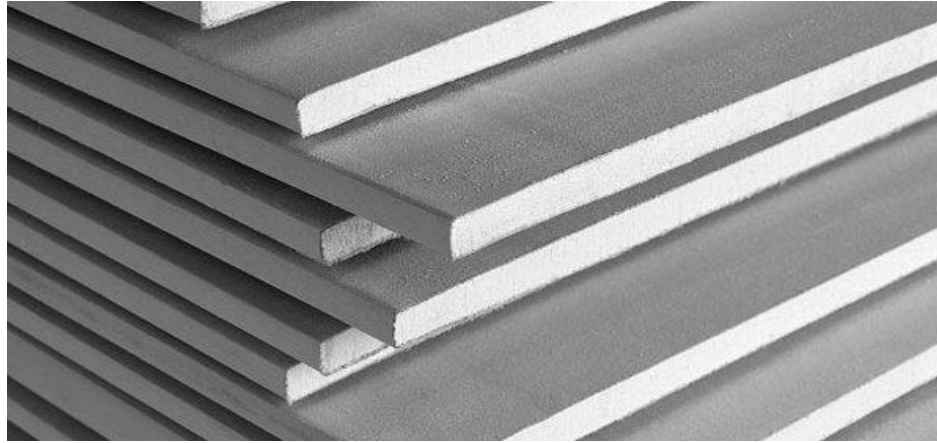
- Updating / New Material Performance Criteria for Air Barriers
- Air Barrier Accessories Evaluation Process
- Transitions and Terminations Guidance
- Technical Committee Goals for 2019

TECHNICAL COMMITTEE

UPDATING / NEW MATERIAL PERFORMANCE CRITERIA



Fluid Applied



Non-Insulating Board Stock



Interior Polymer Film

TECHNICAL COMMITTEE

AIR BARRIER ACCESSORIES EVALUATION CRITERIA



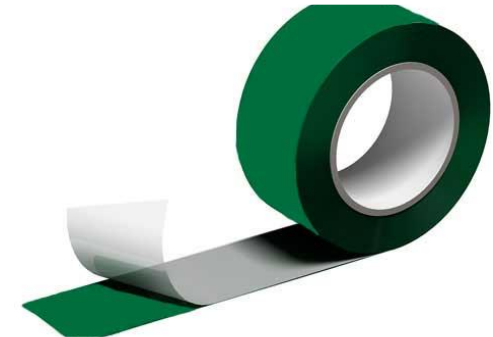
Transition
Membranes



Sealants



Fluid Applied
Flashings



Tapes

TEMINATION'S AND FLASHINGS

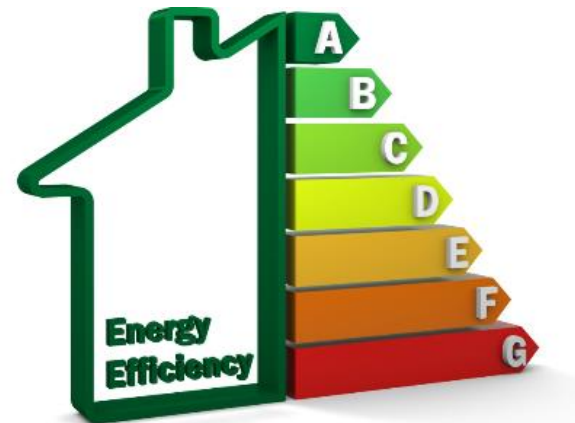


2019 Technical Goals

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

HOW ARE WE DOING ?

9.25

Importance of Topics

9.1

Speaker Abilities

9.05

Quality of Presentations

96%

Would Recommend to Others

95%

Would Attend Another Event



EDUCATION

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



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.

”

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

”

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	POINTS	
					Installer	Contractor
Section 1 - Air Barrier Assembly Materials						
Fluid-Applied Air Barrier Material:						
Manufacturer name:	Henry					
Primary air barrier material trade name:	Air-Bloc 32					
Lot/batch number:	Not available - number not on material					
Is the material being installed one of the materials in the project specifications or has it been approved by the specifier?		X				
Are manufacturers installation instructions on site and in installers possession?		X				
Installed material expiry date within limits?		X				
MSDS sheets on-site and in installers possession?		X				
Transition Material:						
Manufacturer name:	Henry					
Transition material trade name & type (FA or SA):	Blue skin SA / Fiber Mesh Repair Fabric 183					
Transition material lot/batch number:	BH200SA332					
Primer manufacturer:	Henry					
Primer trade name:	Henry 454 Aquatrac P					
Primer lot/batch number:	Material not on site to confirm					
Are manufacturers installation 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:	C56135					
Are manufacturers installation instructions on site and in installers possession?		X				
Installed material expiry date within limits?		X				
MSDS sheets on-site and in installers possession?		X				
Are all materials being stored on-site at time of audit as per manufacturers specifications?		X				
Section 1 - Air Barrier Assembly Notes						
Observations:						
Specifications call for Air Bloc 215, manufactured by Henry. The Air Bloc 32 was reportedly (by the installer) approved as an alternate.						
Corrections:						
Provide documentation that the installed material is approved by the architect.						
		YES	NO	N/A	POINTS	
					Installer	Contractor
Section 2 - Audit Preparation						
Certified Installer(s):						
On site at time of audit?		X				
Applying air barrier?		X				
Registered Installer(s):						
On site at time of audit?		X				
Applying air barrier?		X				
Are the installer(s) certified by ABAA to install self-adhered and fluid-applied air barrier materials? (see back of installer card for certification(s))		X				
Are daily job site reports on site and in installers possession?		X				
Are daily job site reports complete and accurate?		X				
Do <u>all</u> installers have ABAA photo identification card(s) on site and in installers possession?		X				
Are <u>all</u> installer photo identification card(s) current?		X				
Are the air barrier accessories (ie. transition materials, mastic, primers) used listed by the manufacturer in their master specification?		X				
If no, have they been approved by the manufacturer in writing?				X		
What is <u>project specifications</u> for thickness of the fluid-applied air barrier material (in wet mils)?		90 - 120				
What is <u>manufacturer master specifications</u> for application thickness of the fluid-applied air barrier material (in wet mils)?		75				
What is the percentage of ABAA QAP-specified air barrier assembly installed at time of audit?		80%				
What is the percentage of ABAA QAP-specified <u>installed</u> air barrier assembly available for visual inspection?		100% of installed				
Section 2 - Audit Preparation Observations and Mandatory Corrections						
Observations:						
There was no installation on site on this date. The Level-3 Certified Installer was on site for the audit. The project specifications indicate wet thickness to be 2.25 - 3.0 mm, which translates to 90 - 120 mils.						
Corrections:						
There are no recommendations for this section.						

Date of Issue: 09/11/2012 F-115-090 Rev 0 ABAA Job Site Audit Form FL Page 2 of 6

SITE QUALITY ASSURANCE PROGRAM

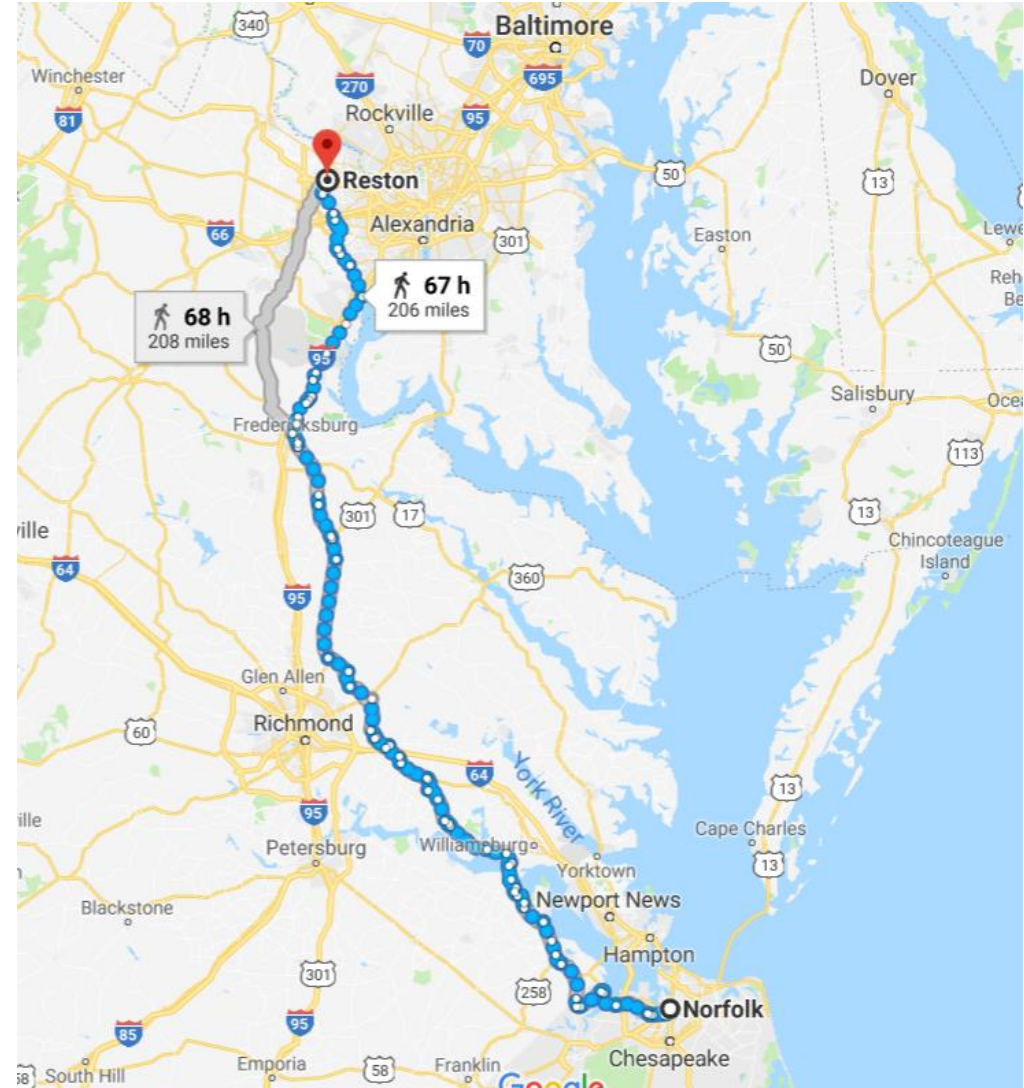
GOING DIGITAL

- 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

TRAINING

STANDARDS

RESEARCH

QUALITY ASSURANCE

GUIDELINES

BUILDING CODES

TECHNICAL

MATERIAL EVALUATIONS

EDUCATION

THE VOICE

PUBLICATIONS