

#### Exterior Wall Systems for Adhered Veneers

Air Barrier, Rain Screen and Continuous Insulation - OH MY!

AIA-32

Anita Hellickson Senior, National Hospitality Account Manager 203.231.9442 ajhellickson@laticrete.com

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1 Learning Unit – Health, Safety, and Welfare





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- What is does a thin veneer system look like
- Air Barrier, Rain Screen & Continuous Insulation
- Detailing
- The many types of system products
- Design options
- Approvals, Testing and Certifications





### The Traditional System (Older System)



## Thin Veneer Wall System

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#### The way it was done?



### Exterior Wall System

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#### How does moisture & air move through this system







## The Changes





In 2010 and the ASHREA 90.1 standard to increase the energy savings of buildings with the use of a continuous air barrier system.

In 2013 and the ASHREA 90.1 to include Continuous Ridged Insulation on buildings.



## The air barrier system







## Managing Air & Moisture

#### What is the #1 Cause of building issues







## Air Barriers



### Air Barriers Types

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"The air barrier system is the **primary air enclosure boundary that separates indoor (conditioned) air and outdoor (unconditioned) air**."



### Permeability

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Class I – Very low permeability vapor retarders – rated at 0.1 perms or less. Sheet polyethylene (visqueen) or unperforated aluminum foil (FSK) are Class I vapor retarders.
Class II – Low permeability vapor retarders – rated greater than 0.1 perms and less than or equal to 1.0 perms. The kraft facing on batts qualify as a Class II vapor retarder.
Class III – Medium permeability vapor retarders – rated greater than 1.0 perms and less than or equal to 10 perms. Latex or enamel paint qualify as Class III vapor retarders.









## Questions?



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#### Devil is in the Details!





#### The Details!

Doors







Parapets or Roofs







#### The Details!

Base of Wall & Floor to Floor





#### The Details!

#### Other areas to detail

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Penetrations fromElectrical, Plumbing,HVAC and Vents





### All the Parts of a System!









Drainage Plane Types









## Drainage Plane Types





![](_page_29_Figure_0.jpeg)

![](_page_30_Figure_0.jpeg)

### Drainage Plane

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#### Adding Bulk Water Management

![](_page_31_Figure_2.jpeg)

![](_page_32_Picture_0.jpeg)

# **Continuous Insulation**

**(CI)** 

![](_page_32_Picture_2.jpeg)

![](_page_33_Figure_0.jpeg)

![](_page_33_Figure_1.jpeg)

![](_page_33_Picture_2.jpeg)

![](_page_34_Picture_0.jpeg)

We are wrapping your building with a coat!

![](_page_34_Picture_2.jpeg)

![](_page_34_Picture_3.jpeg)

![](_page_35_Figure_0.jpeg)

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#### AGAIN! Details are Important!

![](_page_36_Figure_2.jpeg)

![](_page_36_Picture_3.jpeg)

![](_page_37_Figure_0.jpeg)

![](_page_38_Picture_0.jpeg)

✓ AC212
 ✓ ASTM E2357
 ✓ NFPA 285

✓ TAS 202 & 203
 ✓ ASTM E84
 ✓ ASTM E1354

✓ Systems

![](_page_38_Picture_4.jpeg)

![](_page_39_Picture_0.jpeg)

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Review

- The new codes are pushing that new systems that are more energy saving and provides long term value for owners.
- Being sure that your systems are providing the best protection as possible for the savings and life of the building.

![](_page_39_Picture_3.jpeg)

- Making sure that your designs preforms as designed, being detailed in instructions and in details.
- Using Systems that are tested to work together.

![](_page_39_Picture_6.jpeg)

![](_page_40_Picture_0.jpeg)

#### End of AIA/CES Presentation

## Thank You!

Anita Hellickson Senior, National Hospitality Account Manager 203.231.9442 ajhellickson@laticrete.com

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