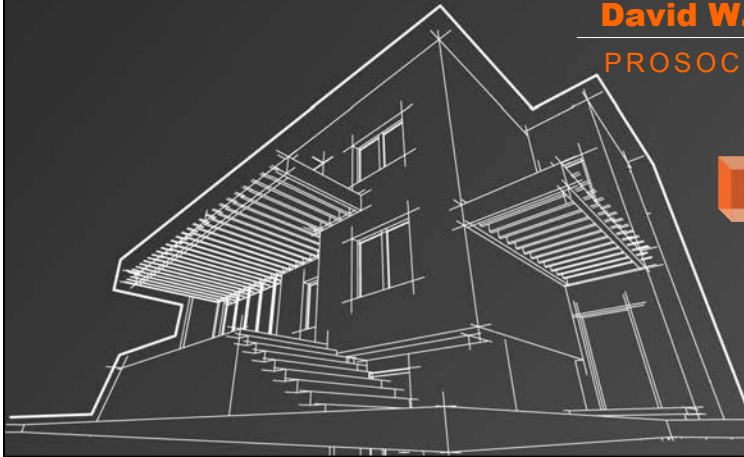


The Air Leakiness of OSB

Measuring air and moisture flow through building materials and assemblies

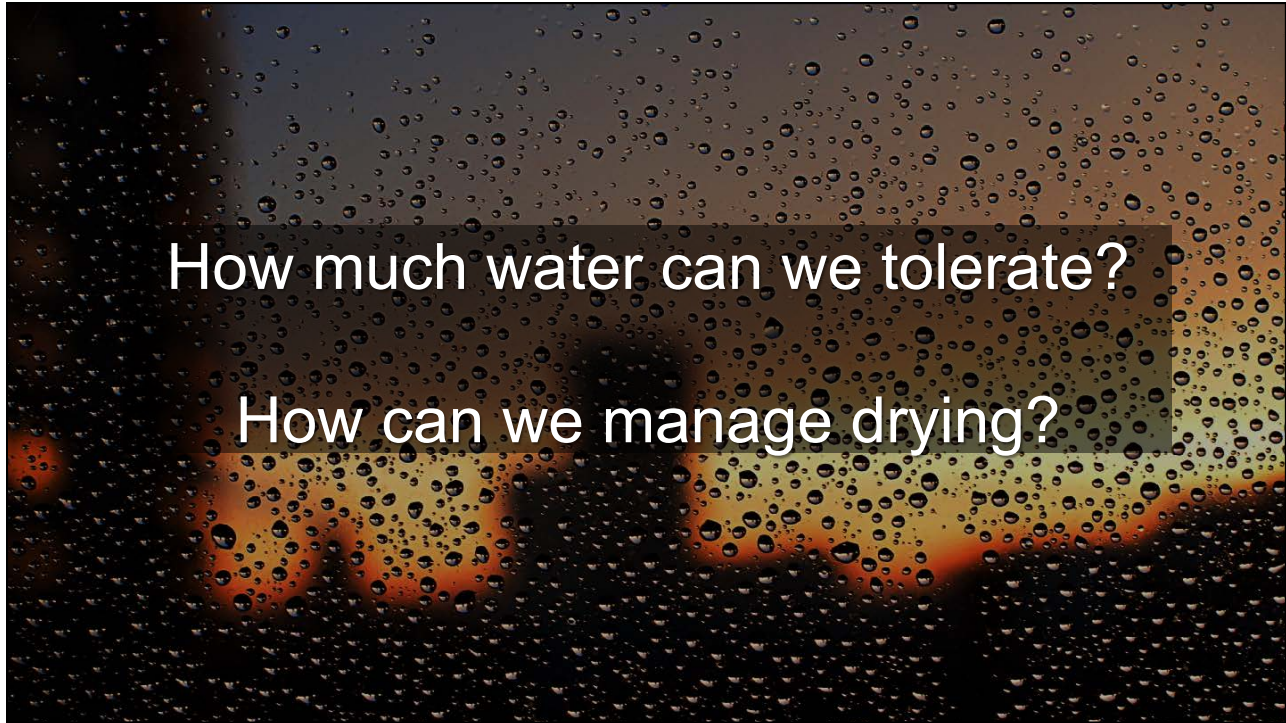
David W. Boyer & Tom Schneider

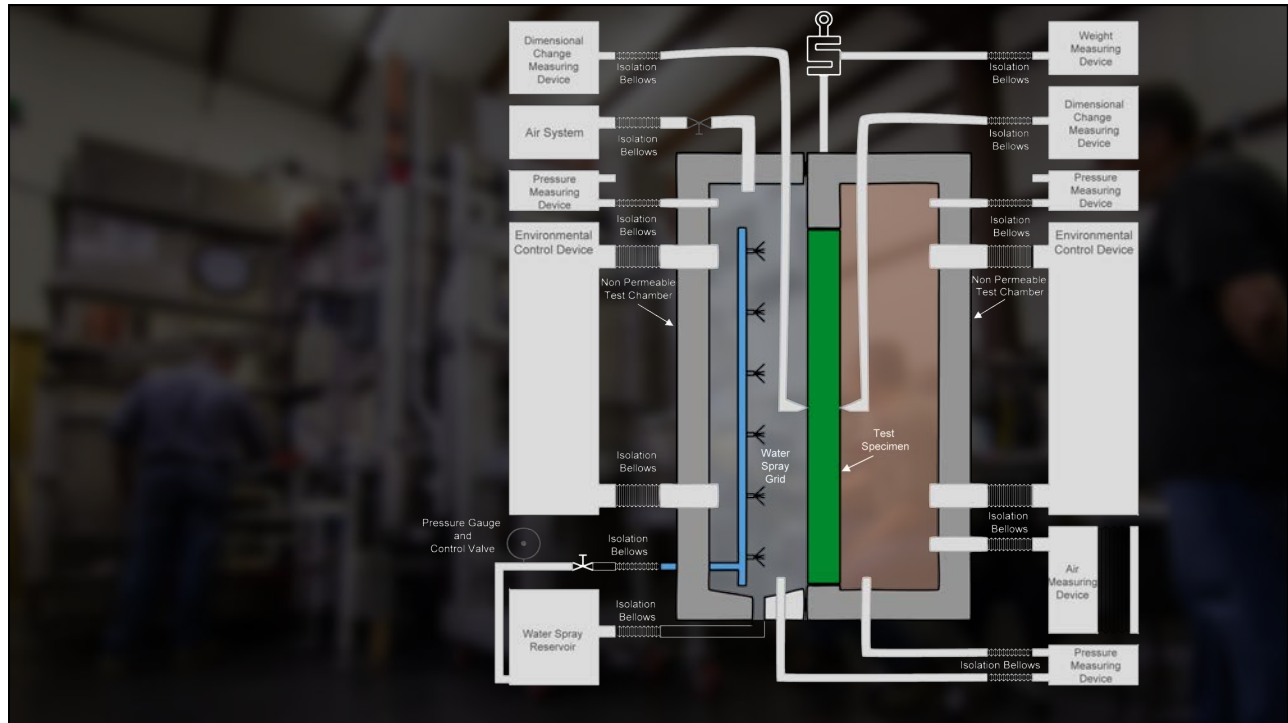
PROSOCO Building Envelope Innovations



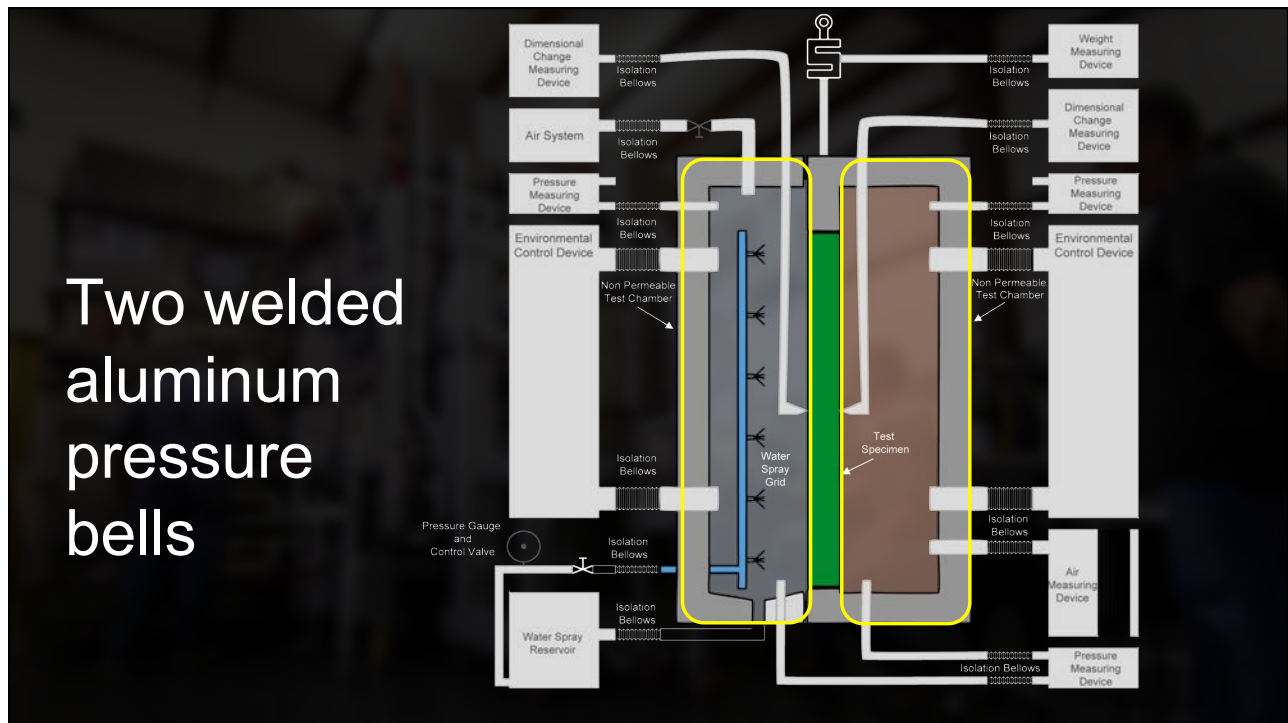




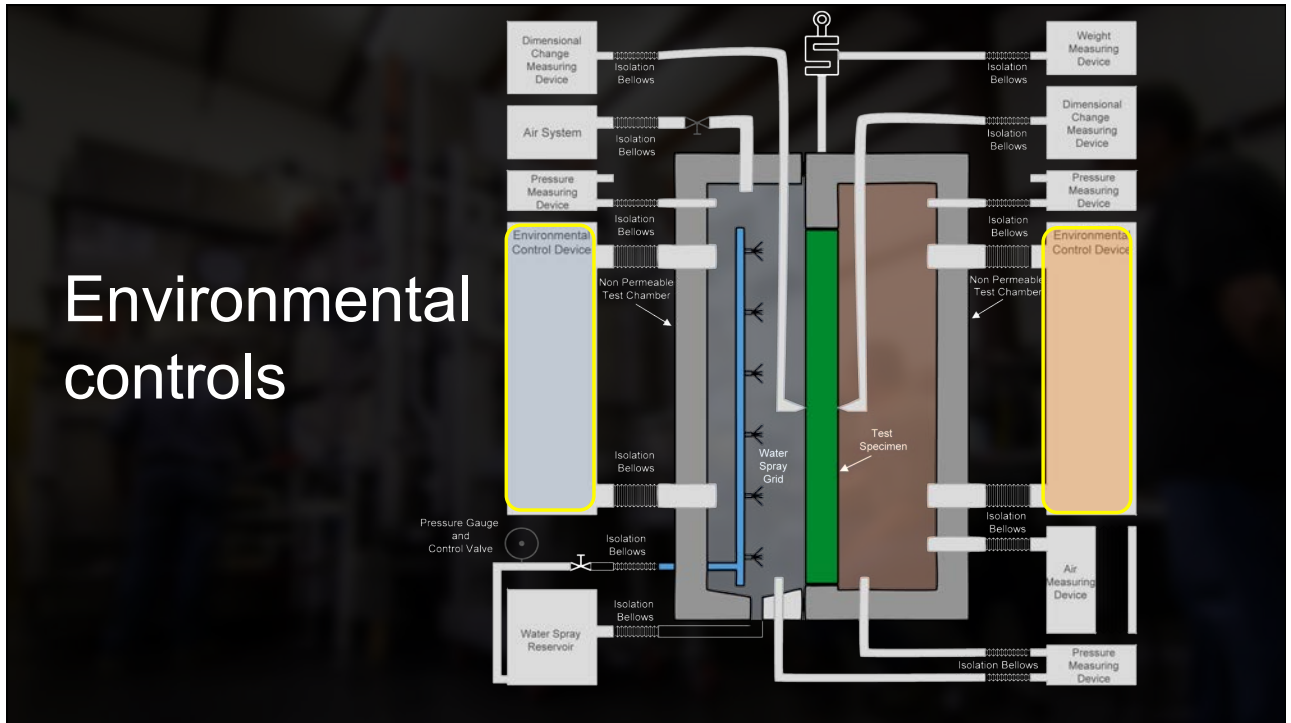




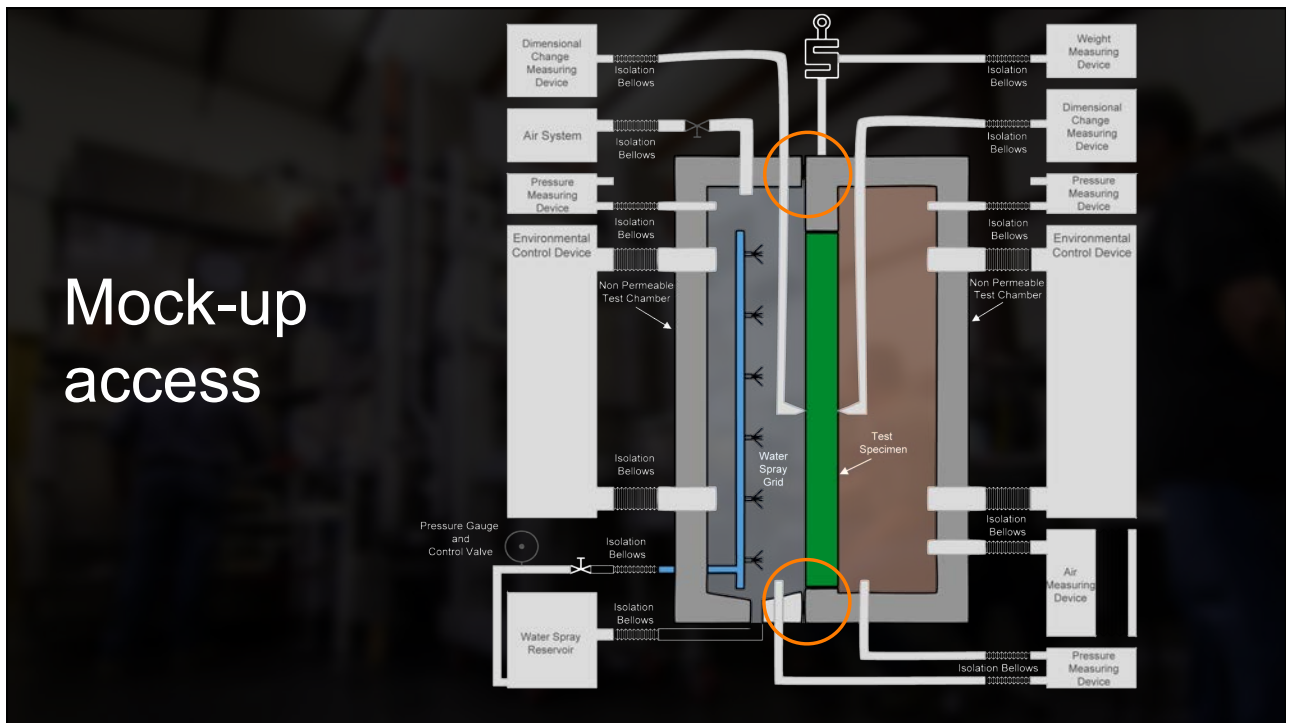
Two welded aluminum pressure bells

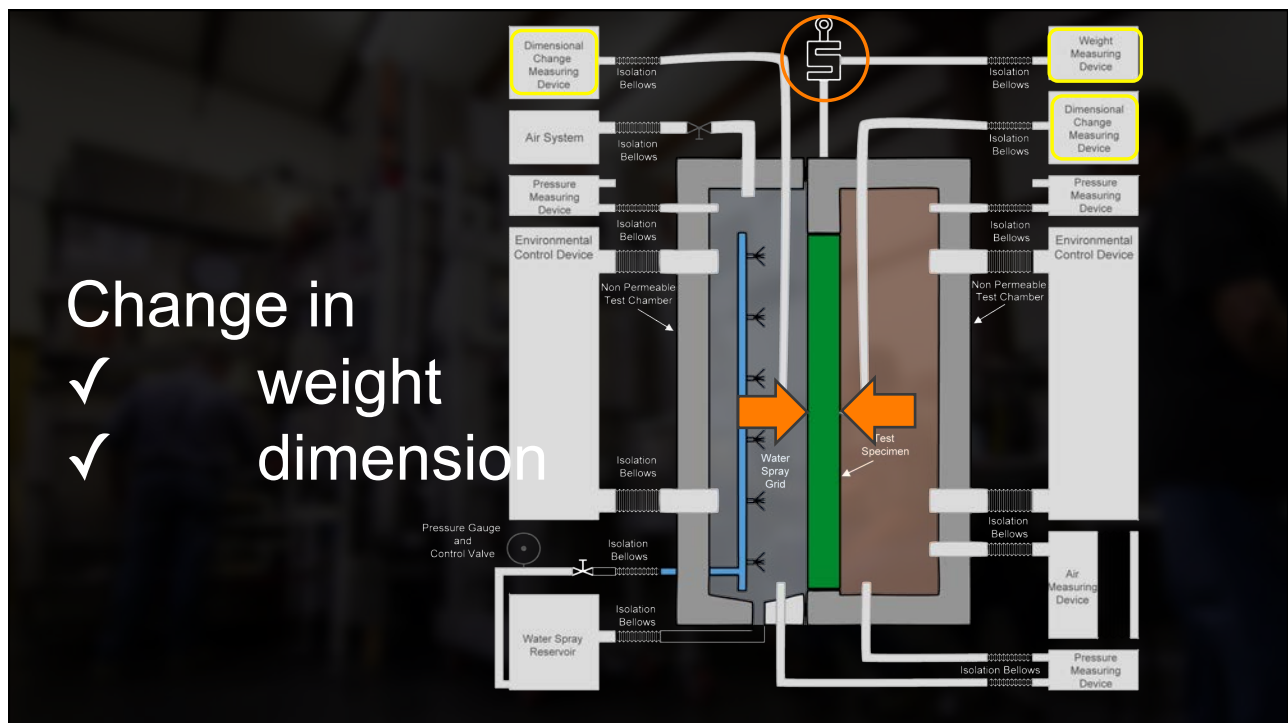
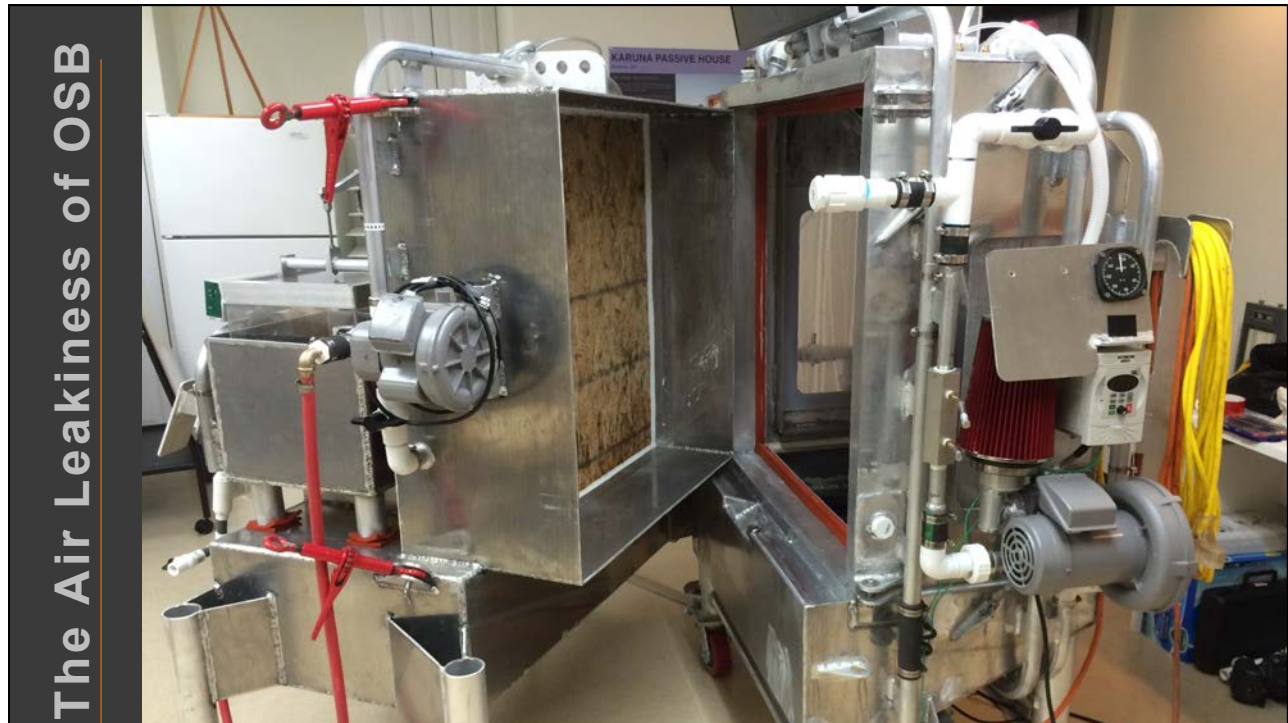


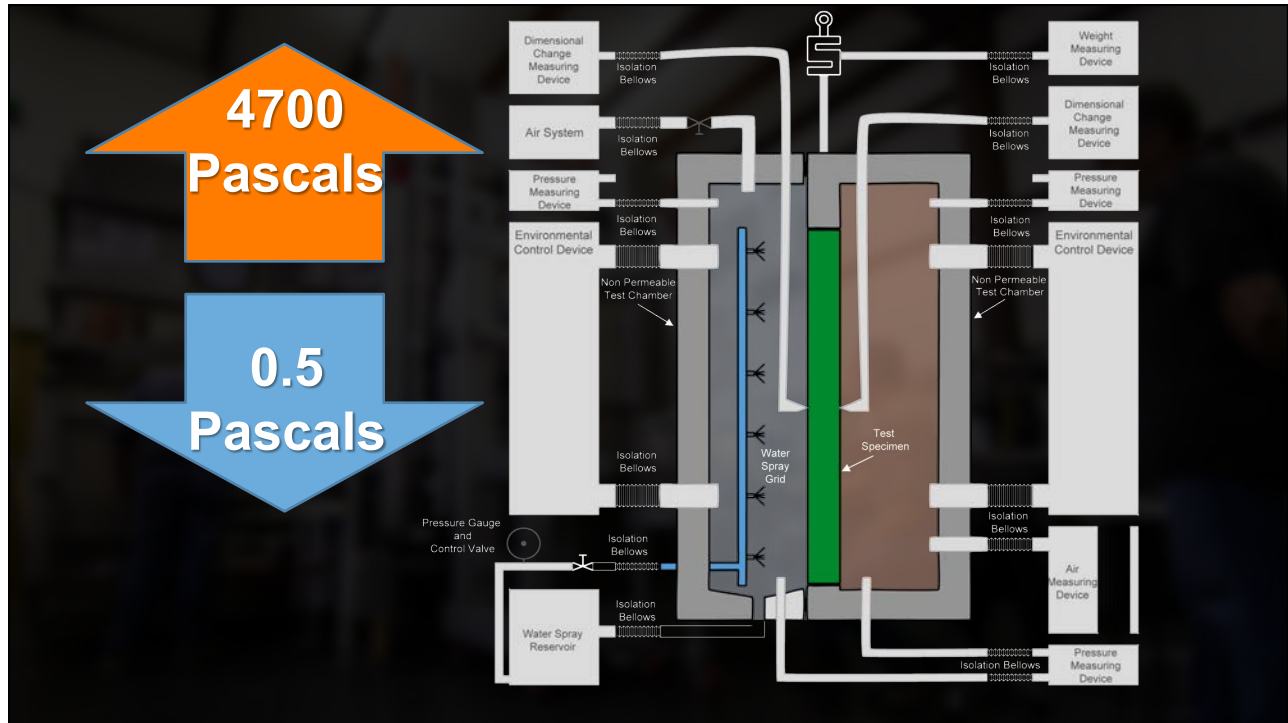
Environmental controls



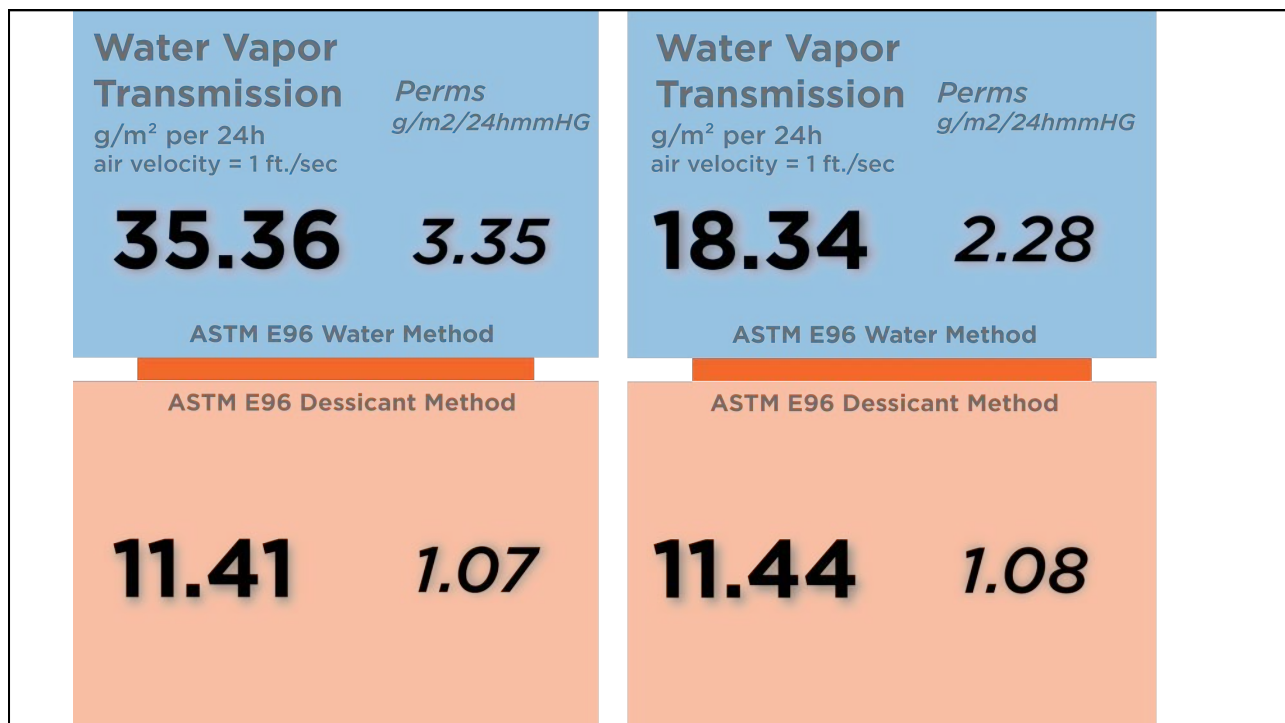
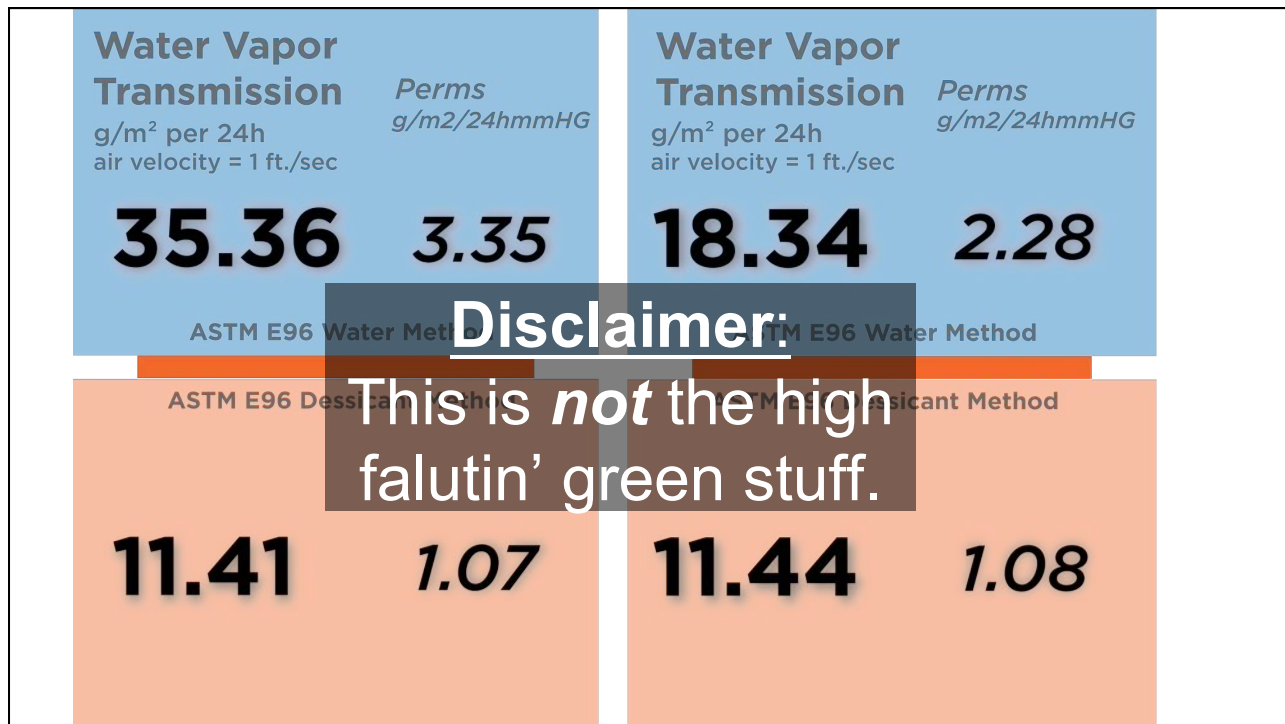
Mock-up access

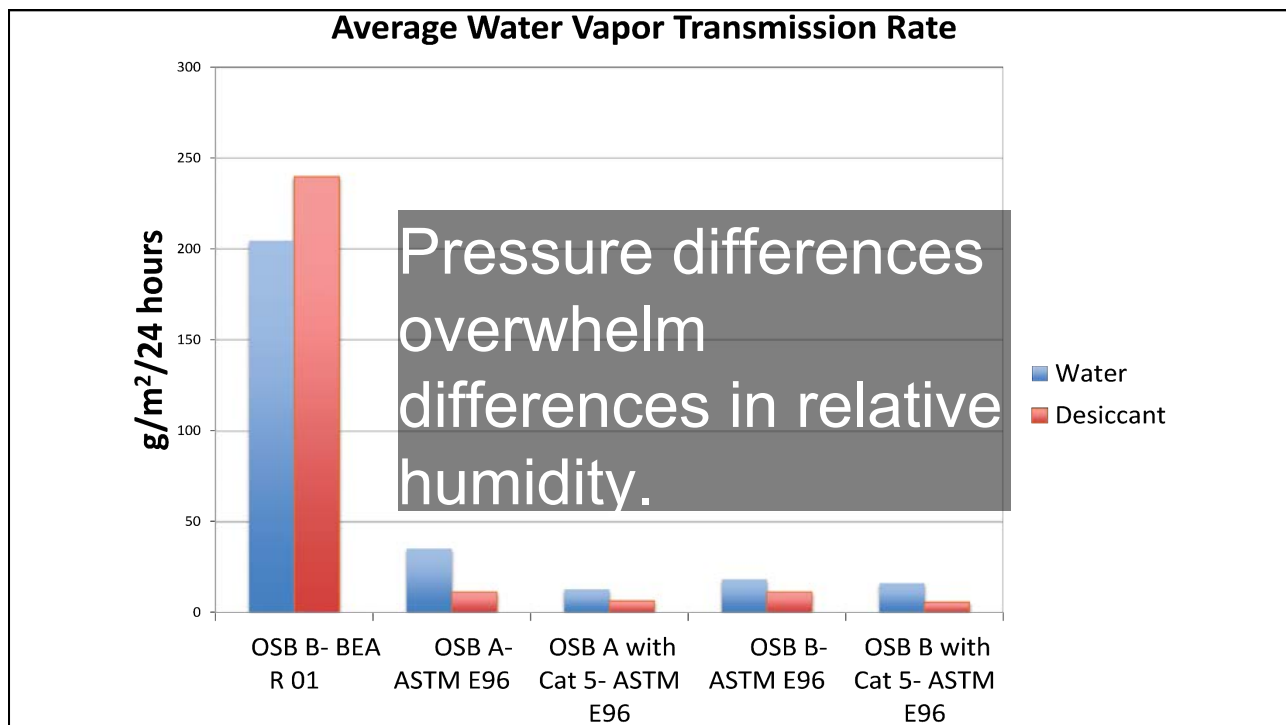
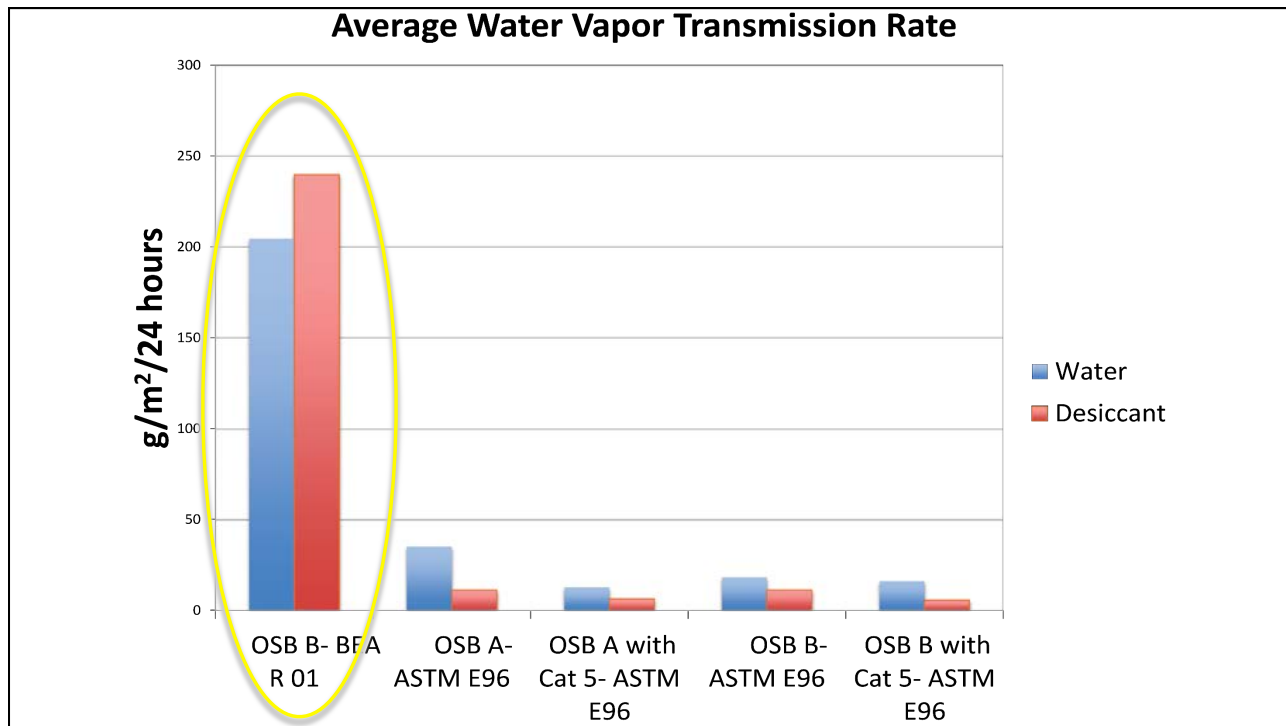


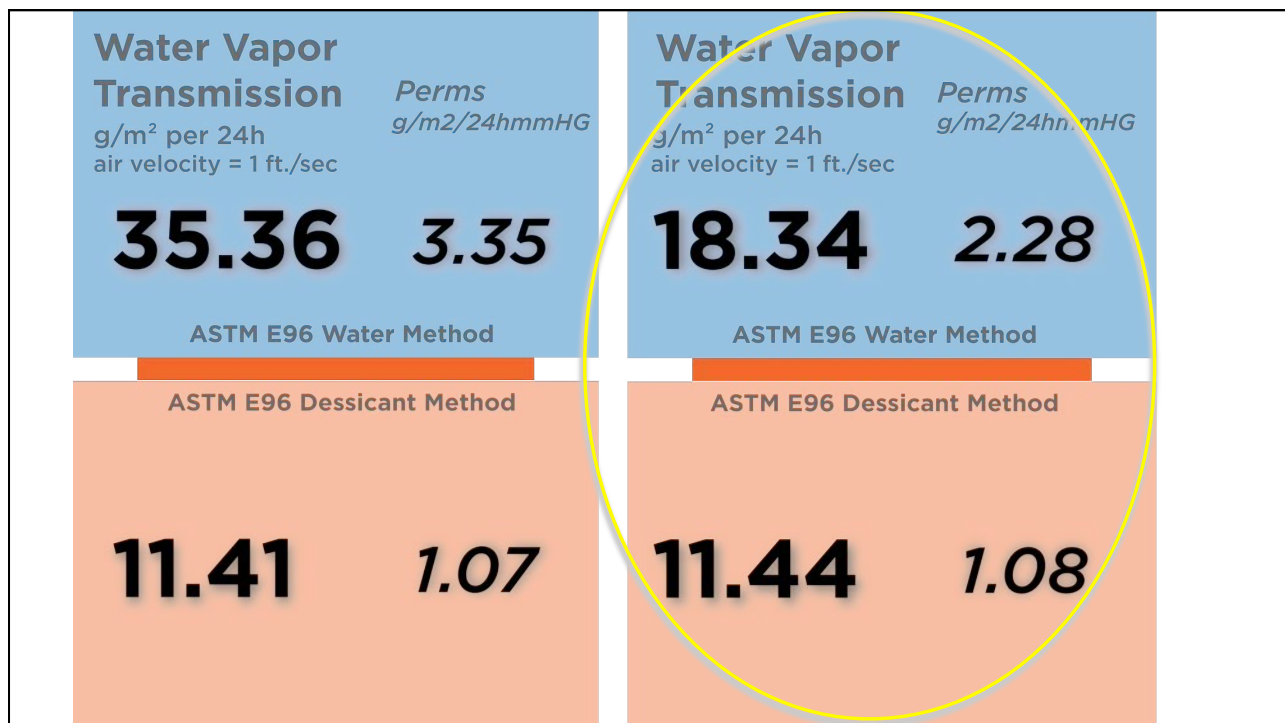
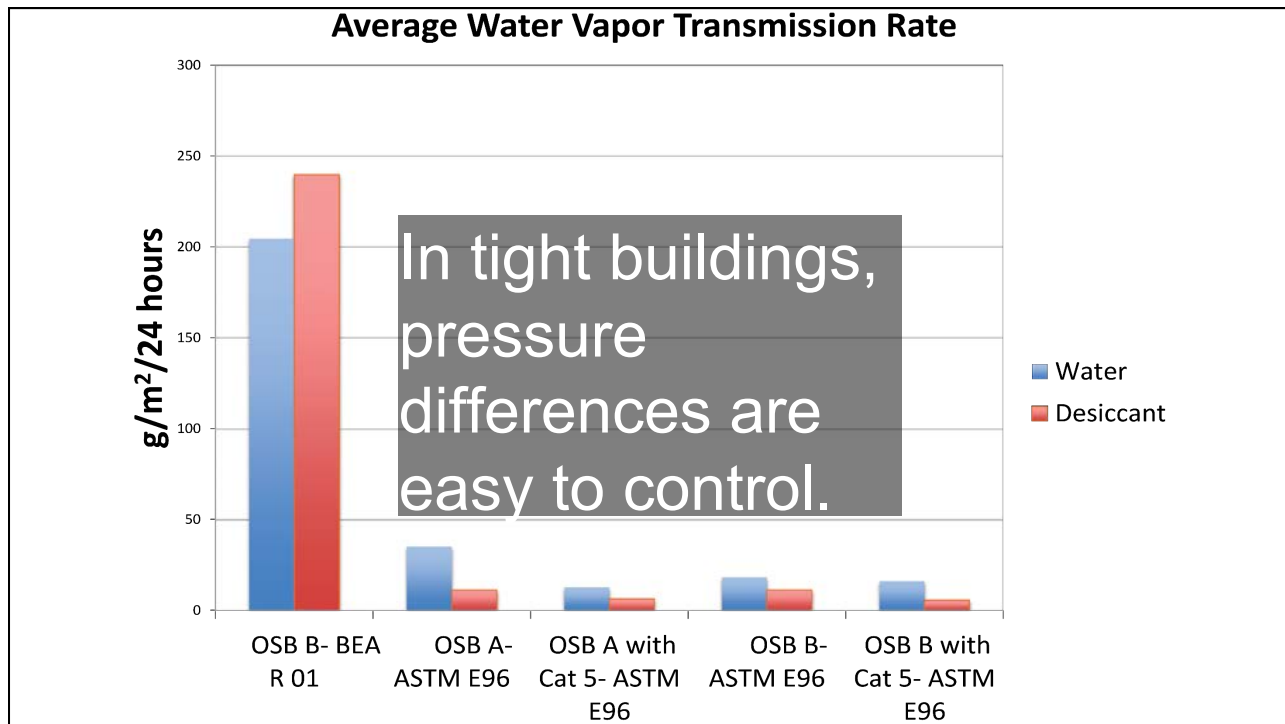


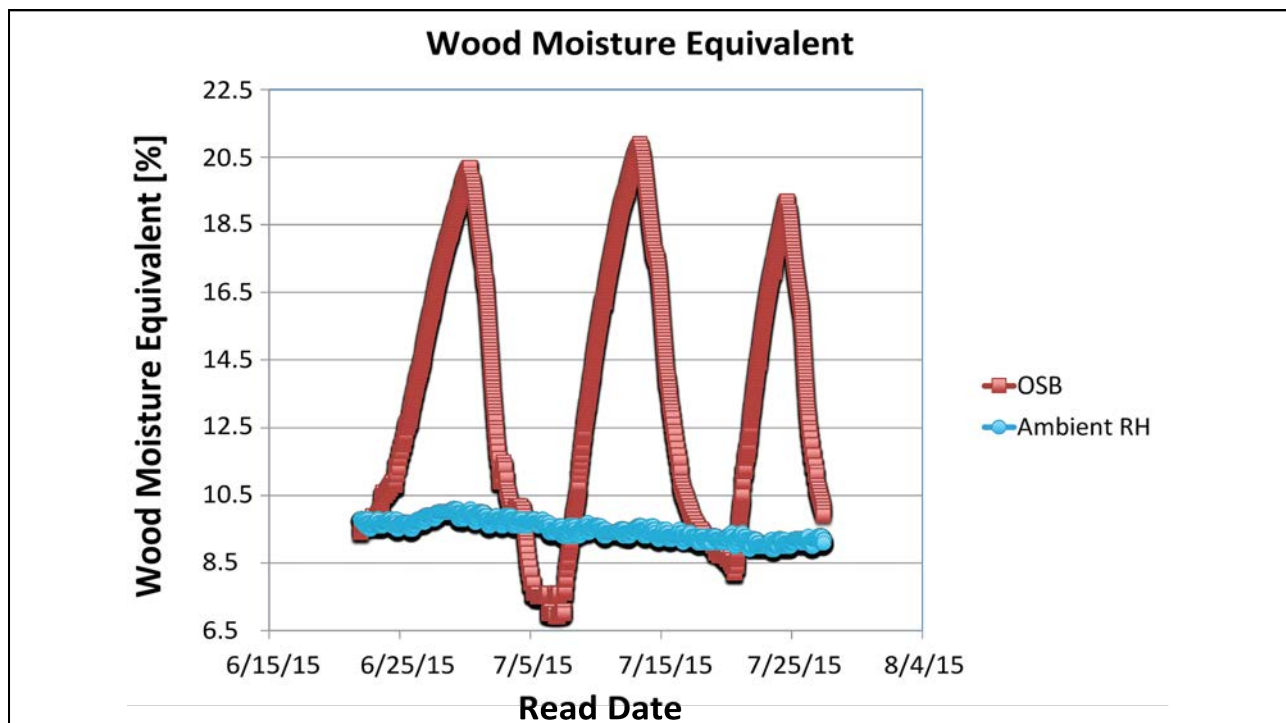
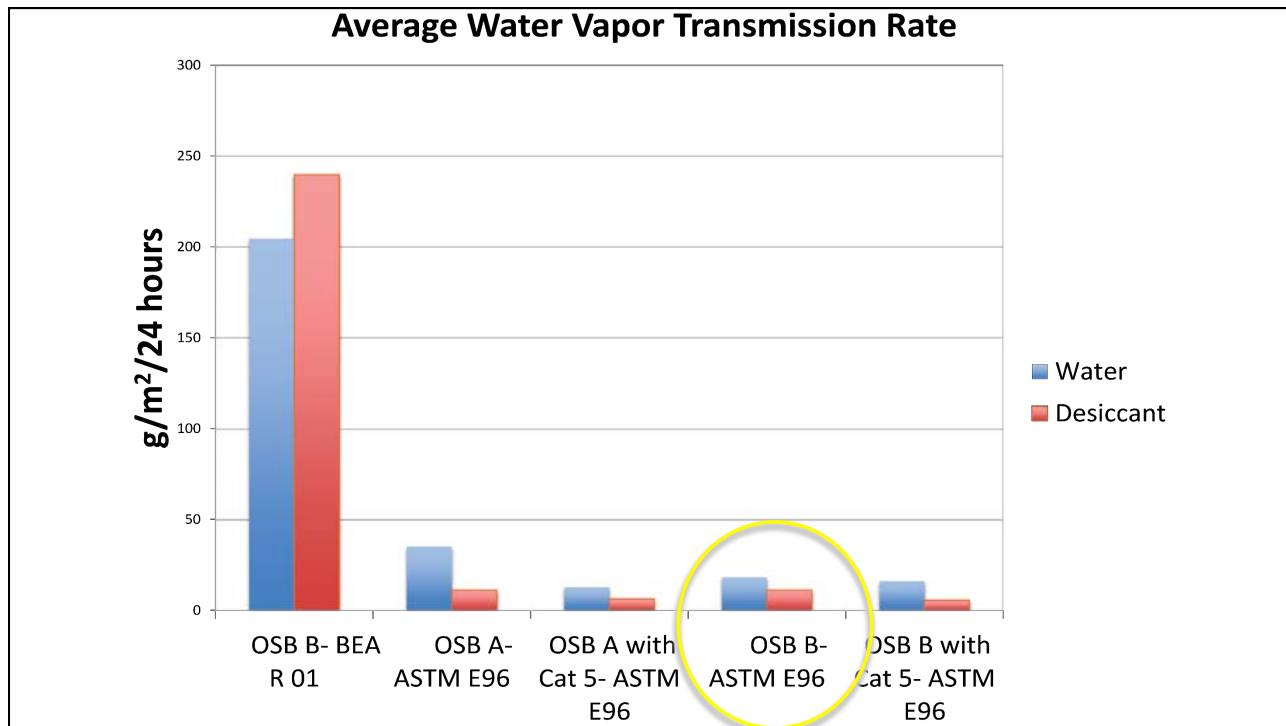


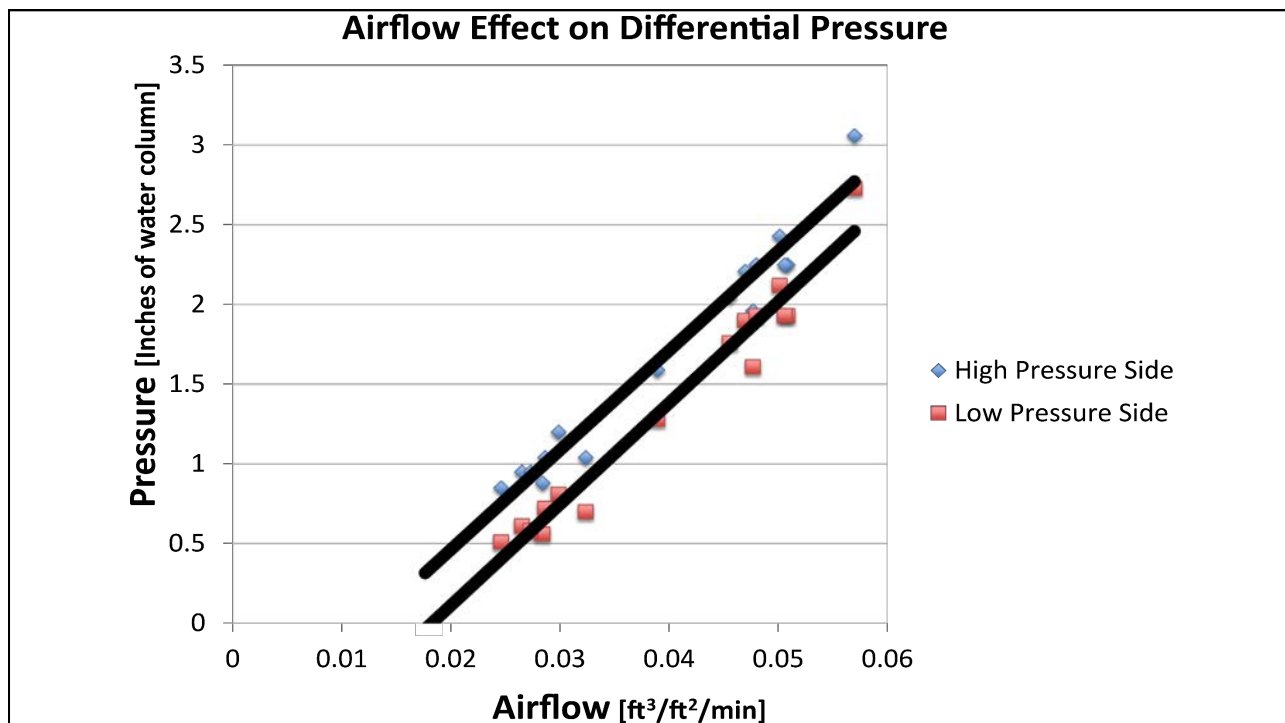
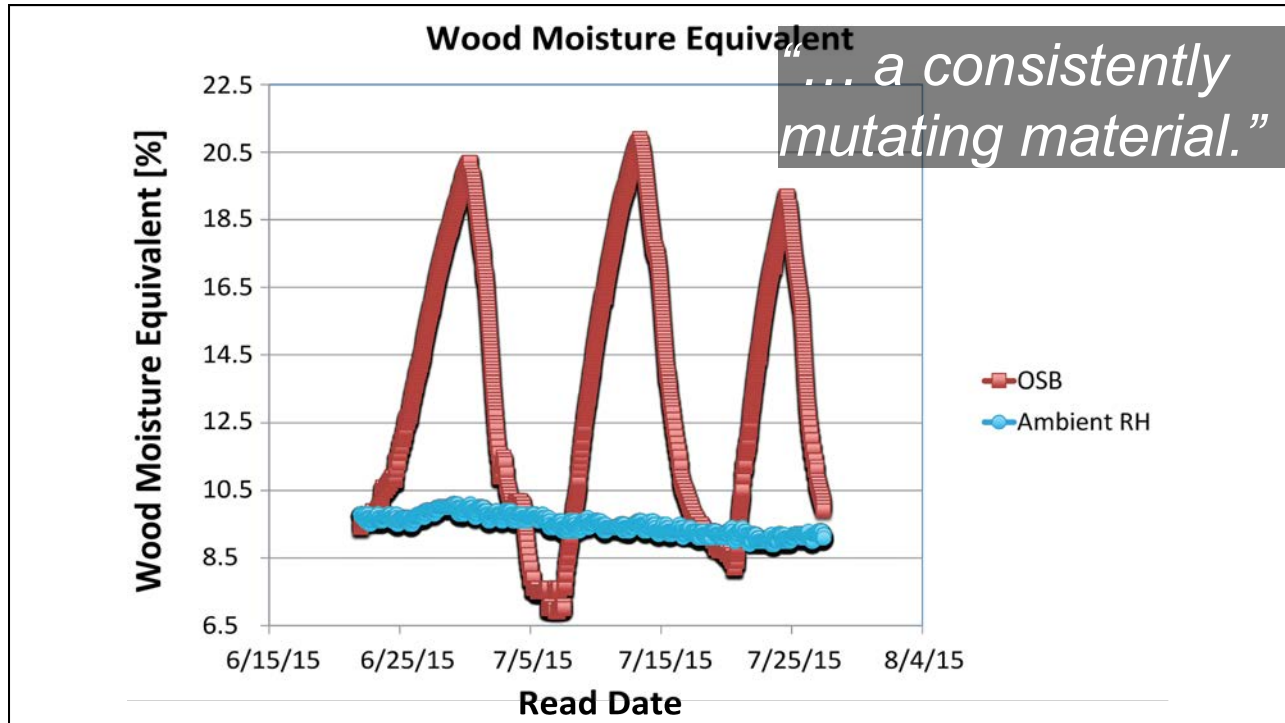
Water Vapor Transmission		Water Vapor Transmission	
g/m ² per 24h air velocity = 1 ft./sec		g/m ² per 24h air velocity = 1 ft./sec	
<i>Perms</i> g/m ² /24hmmHG		<i>Perms</i> g/m ² /24hmmHG	
35.36	3.35	18.34	2.28
ASTM E96 Water Method		ASTM E96 Water Method	
ASTM E96 Dessicant Method		ASTM E96 Dessicant Method	
11.41	1.07	11.44	1.08

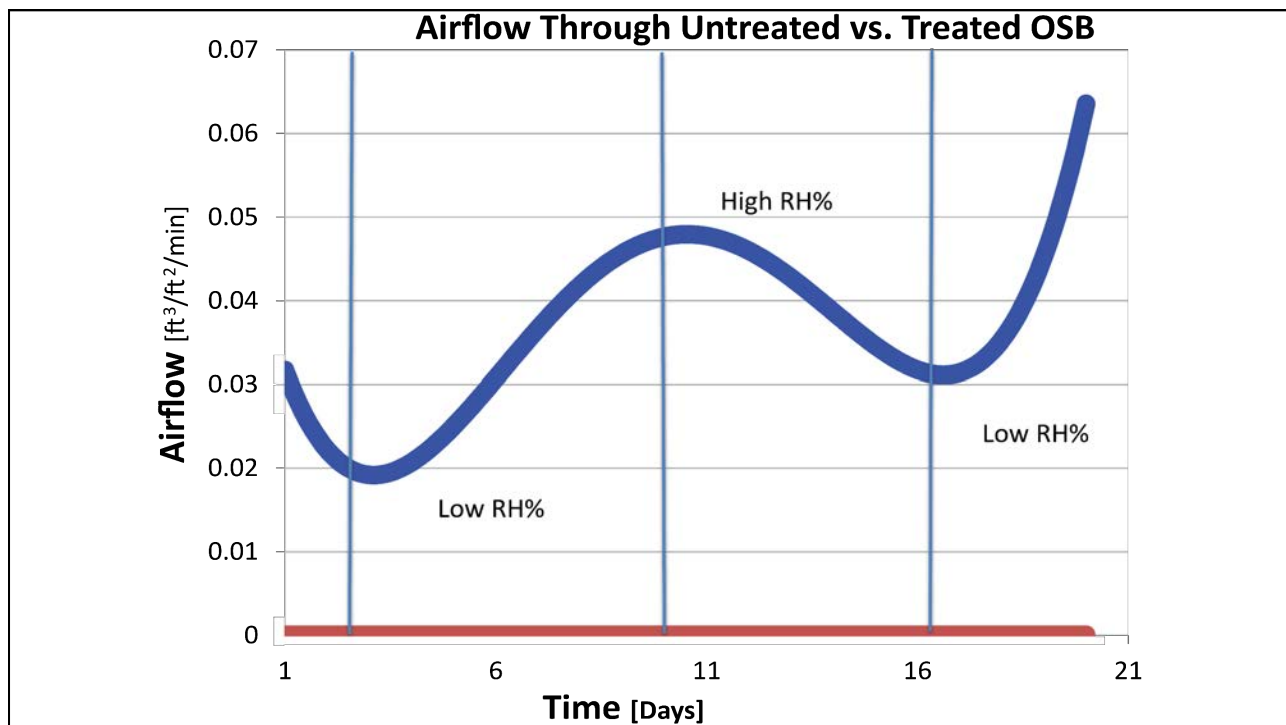
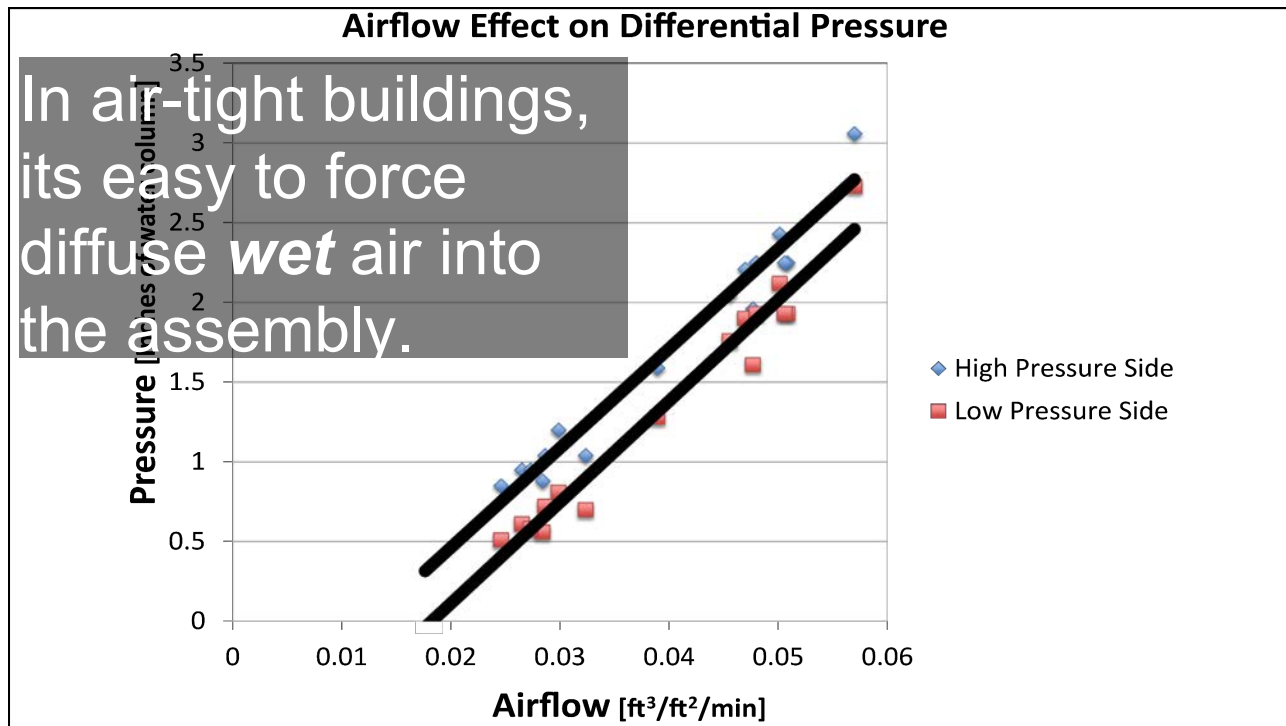


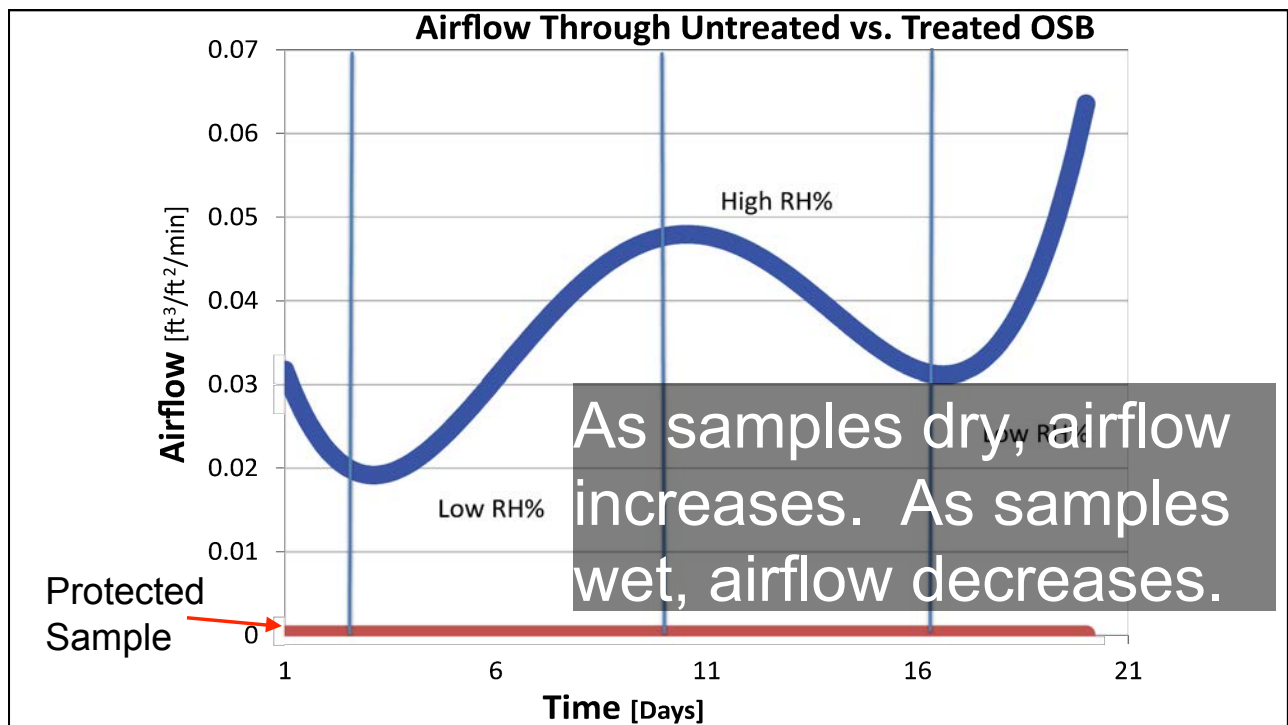
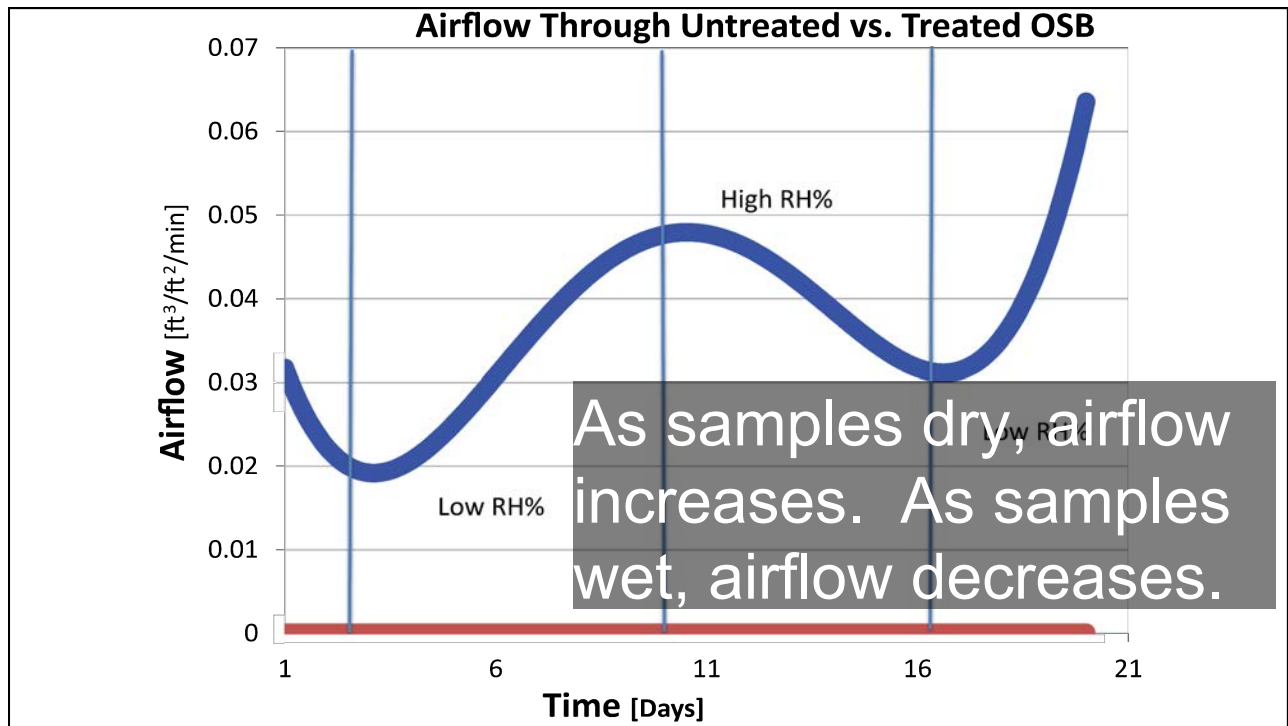


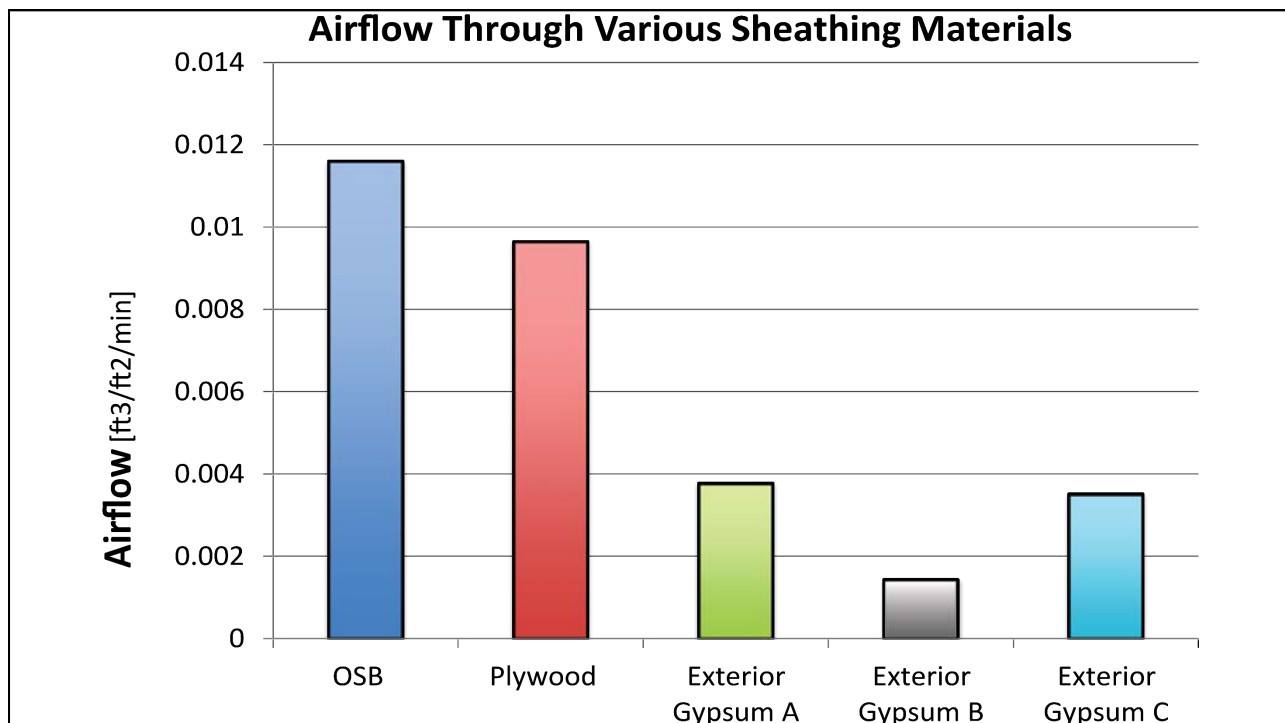
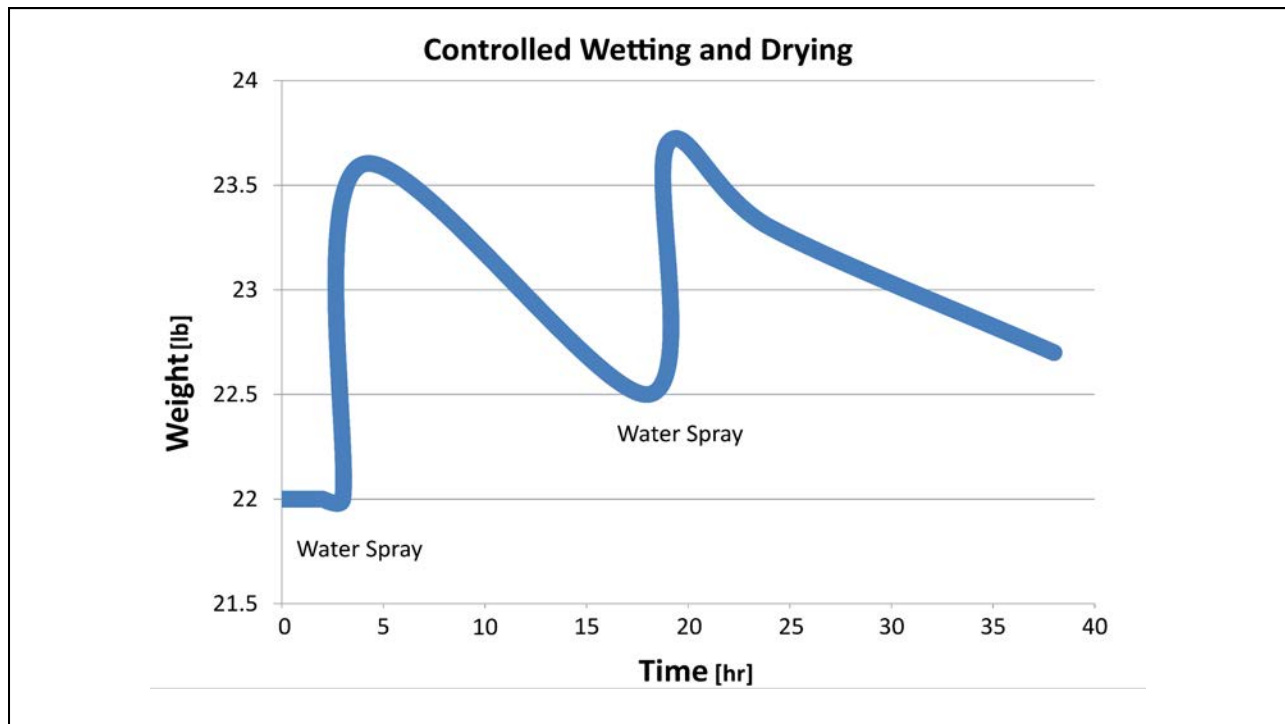


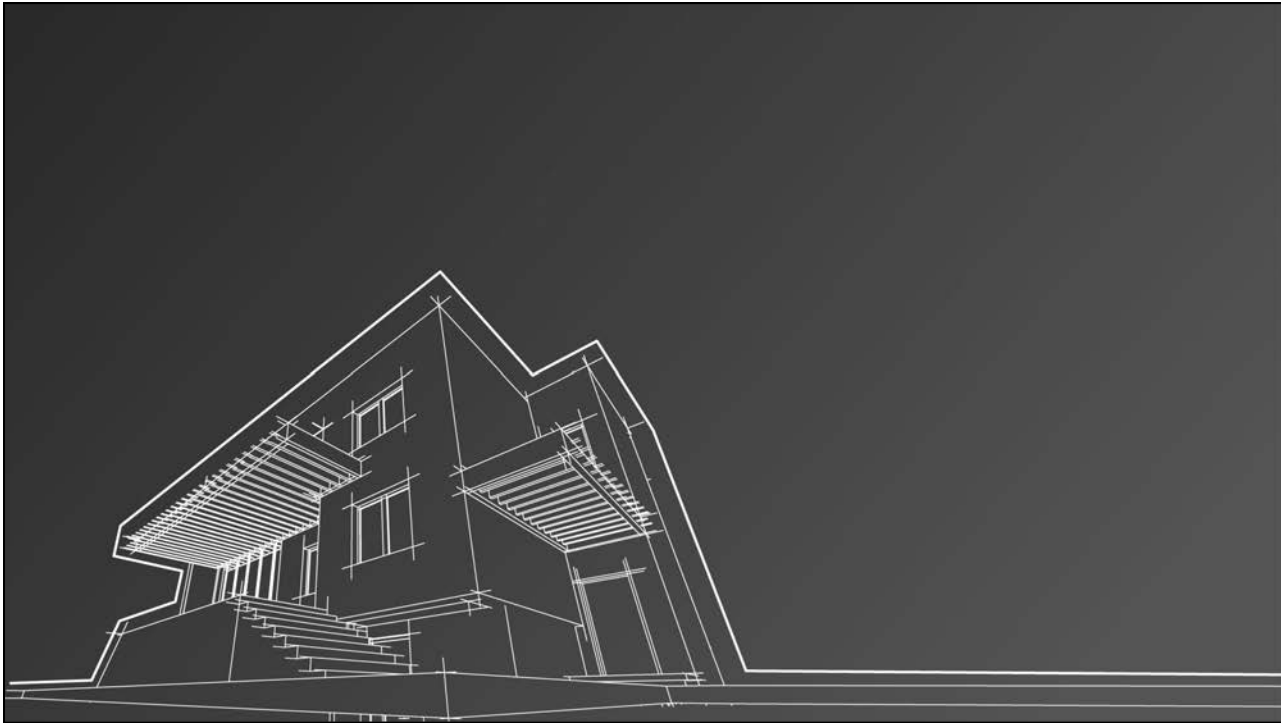


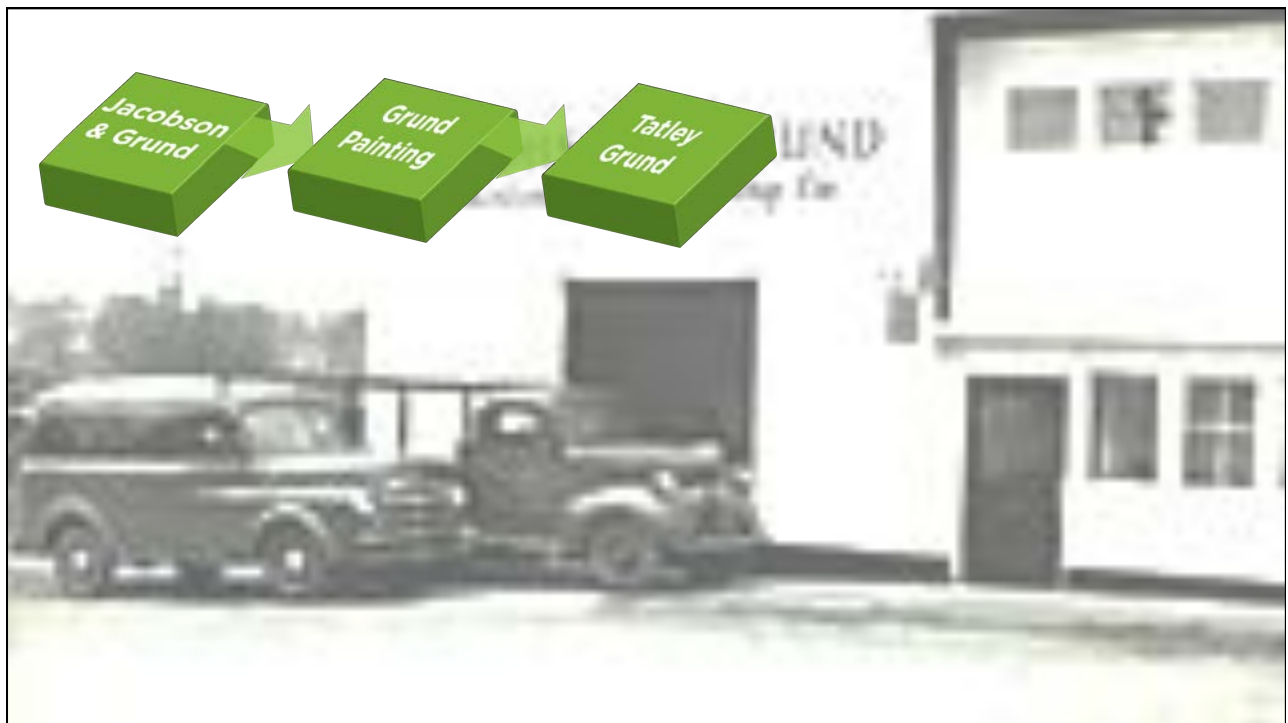


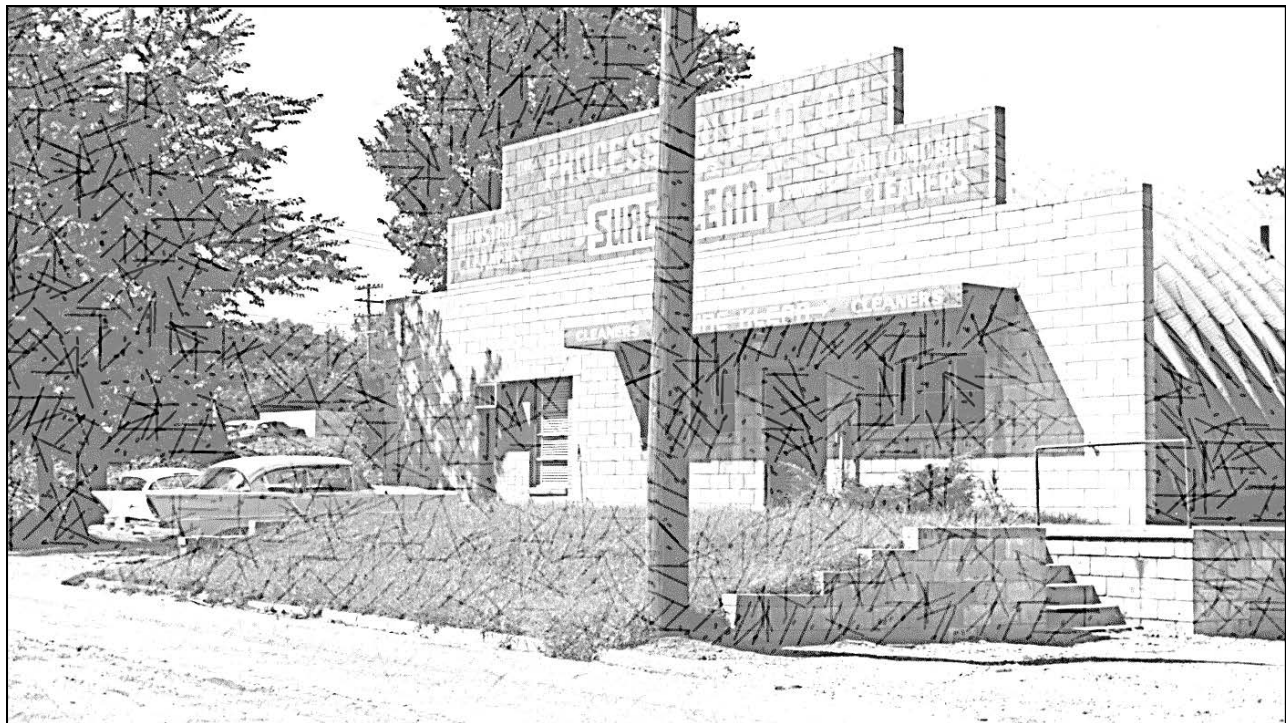
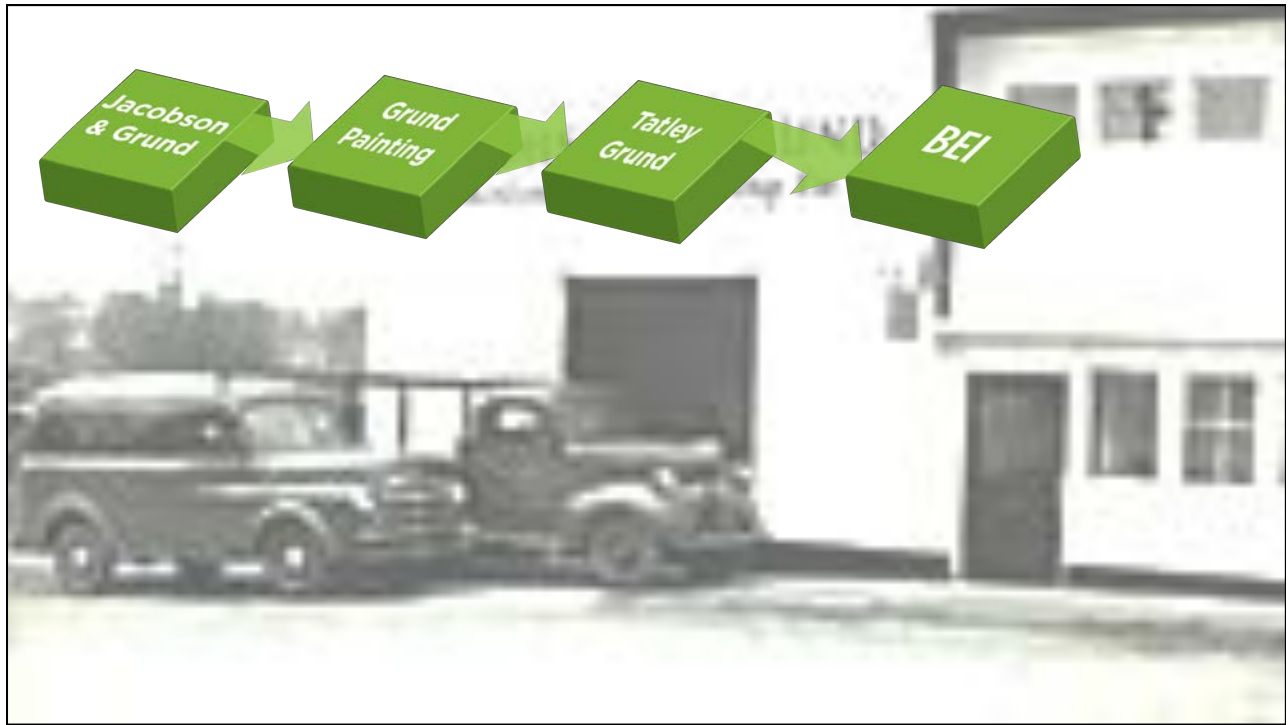


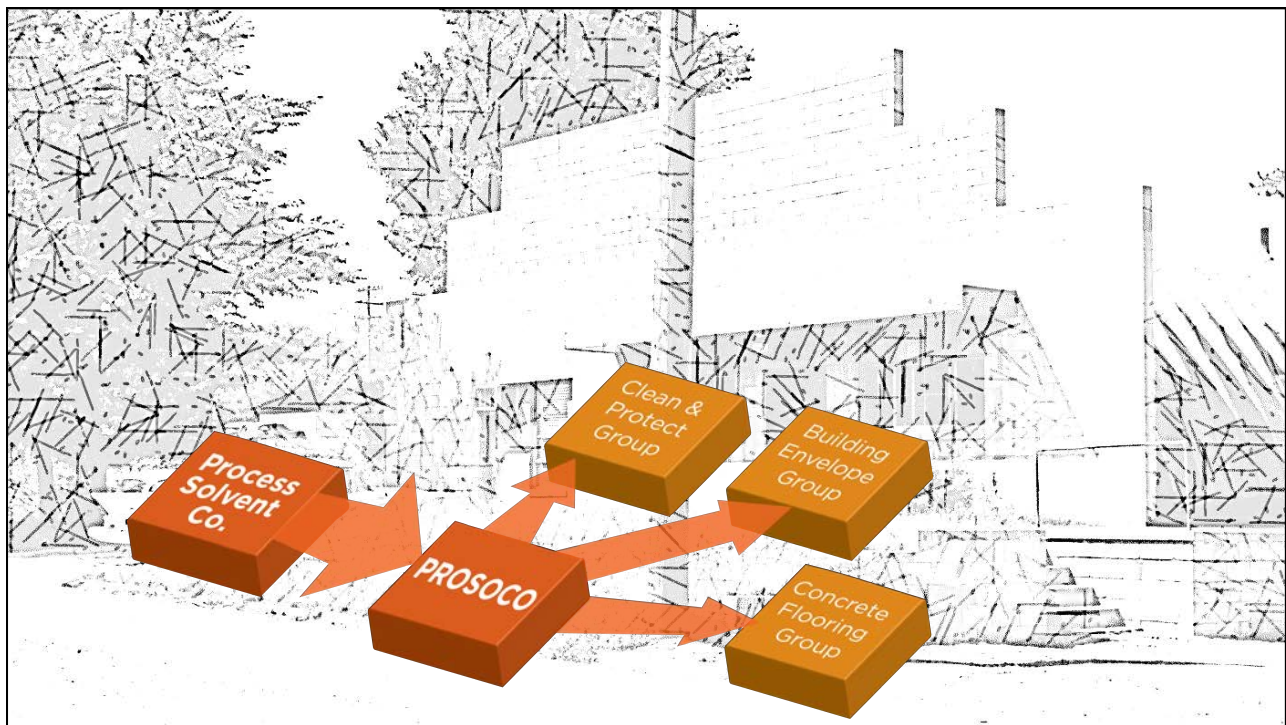
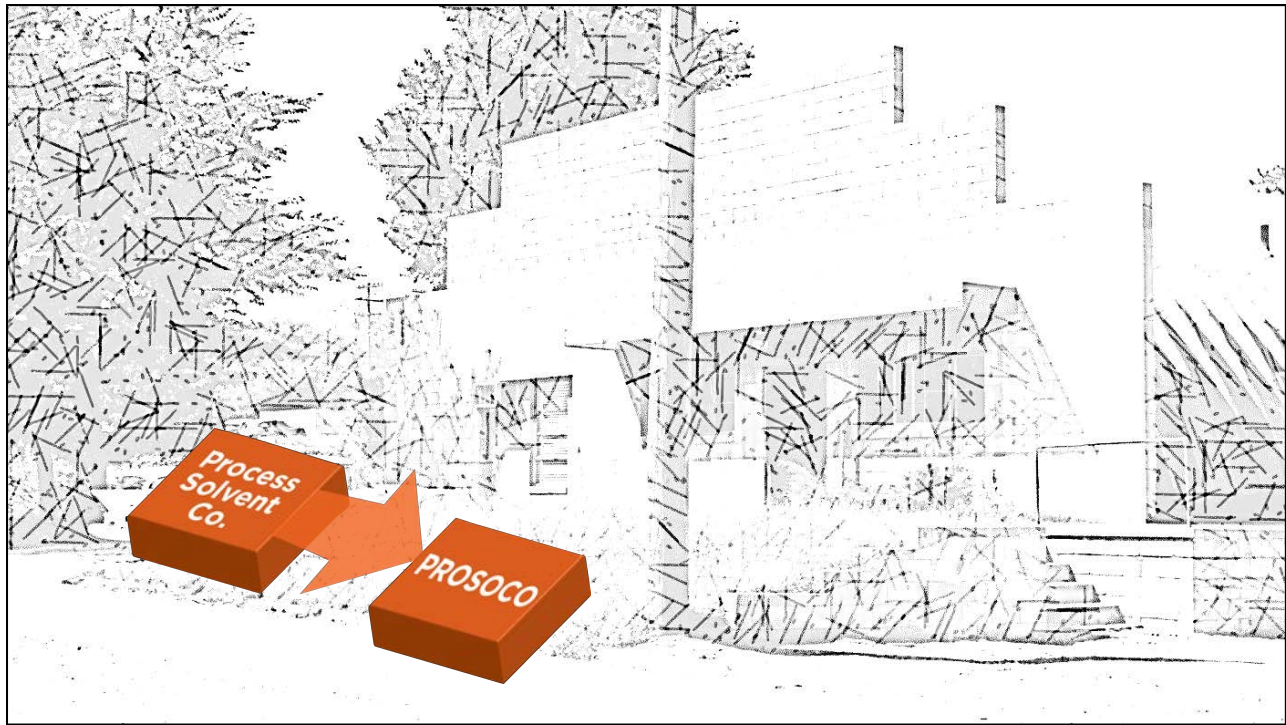


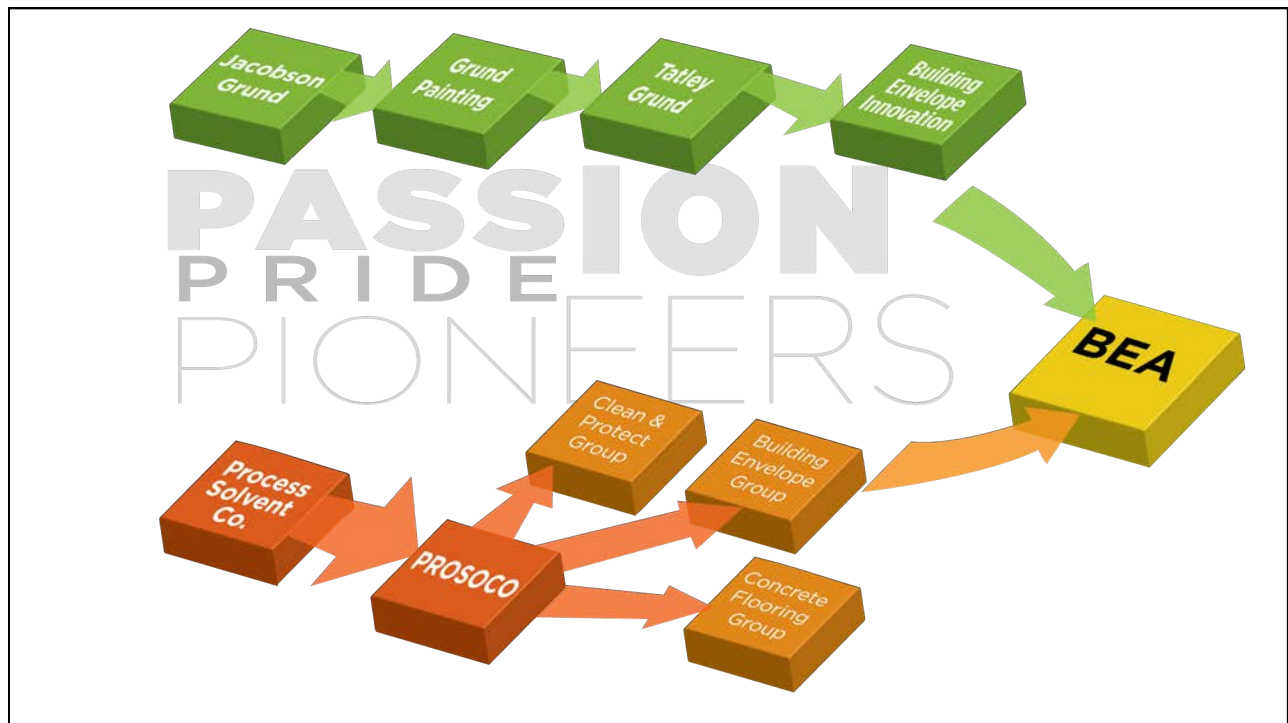
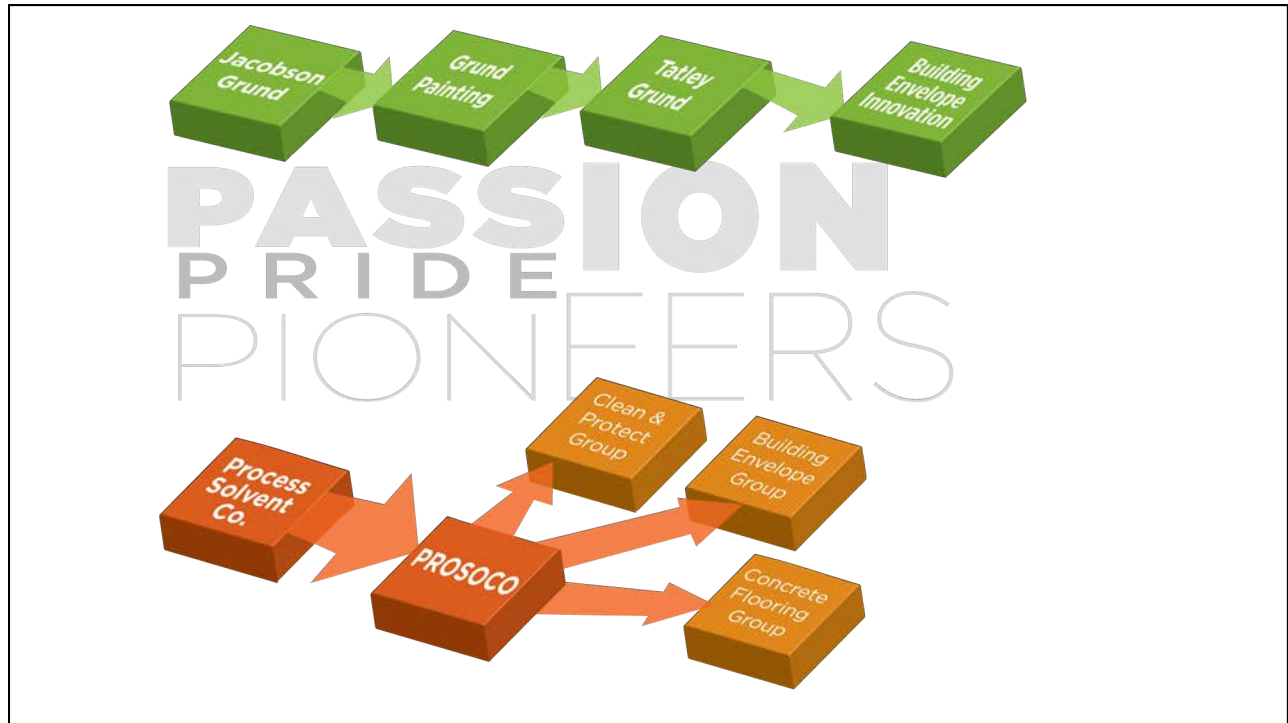














Designation: E96/E96M - 13

**Standard Test Methods for
Water Vapor Transmission of Materials¹**



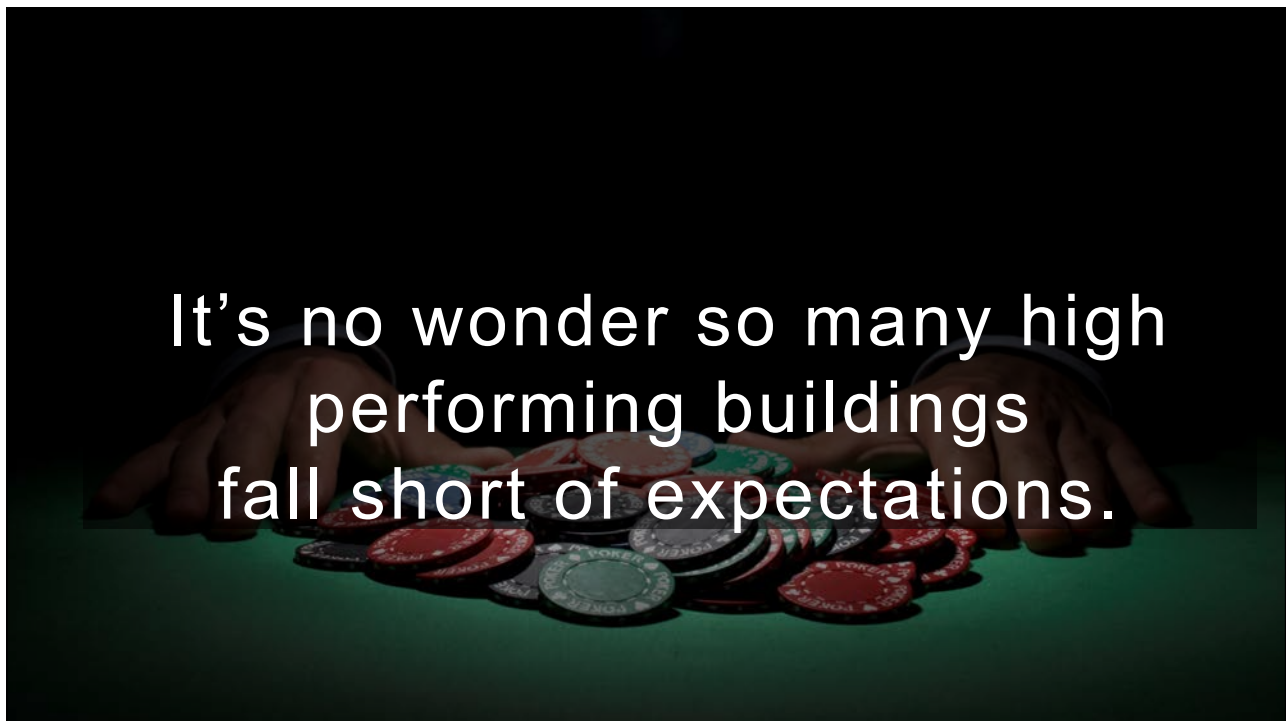
Designation: D1970/D1970M - 13a

**Standard Specification for
Self-Adhering Polymer Modified Bituminous Sheet Materials
Used as Steep Roofing Underlayment for Ice Dam
Protection¹**



Designation: C1305 - 08

**Standard Test Method for
Crack Bridging Ability of Liquid-Applied Waterproofing
Membrane¹**

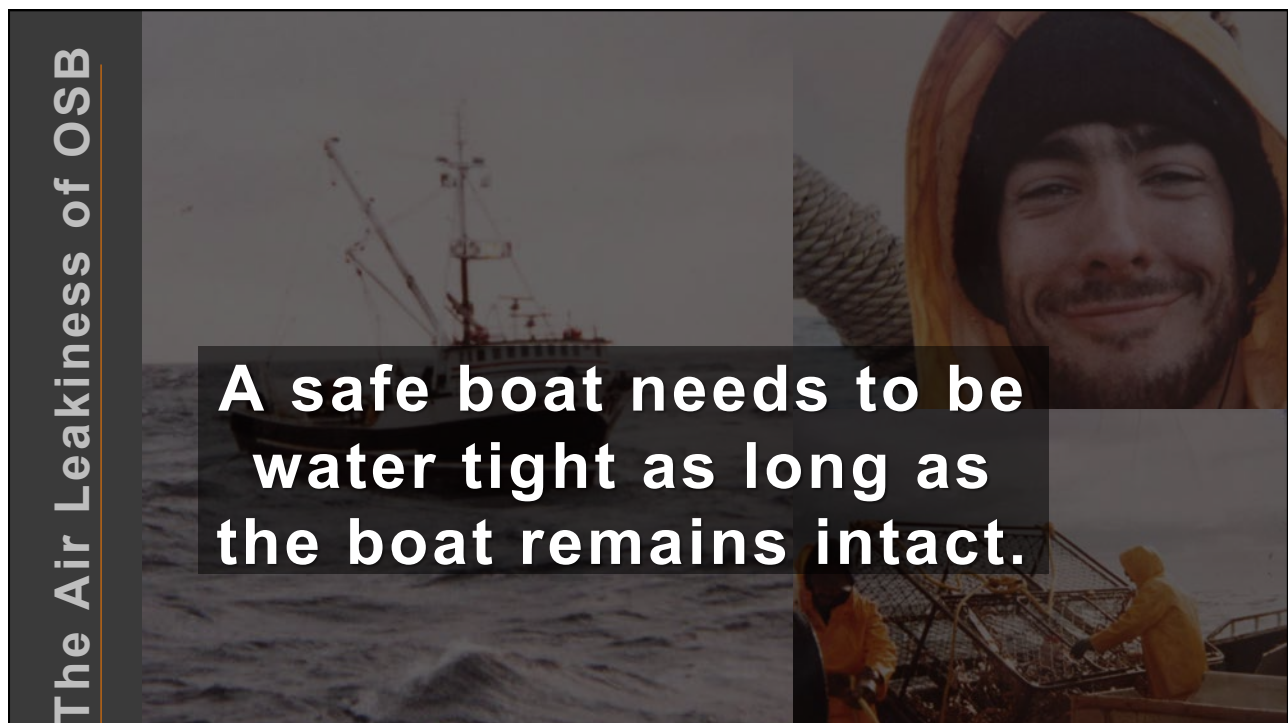


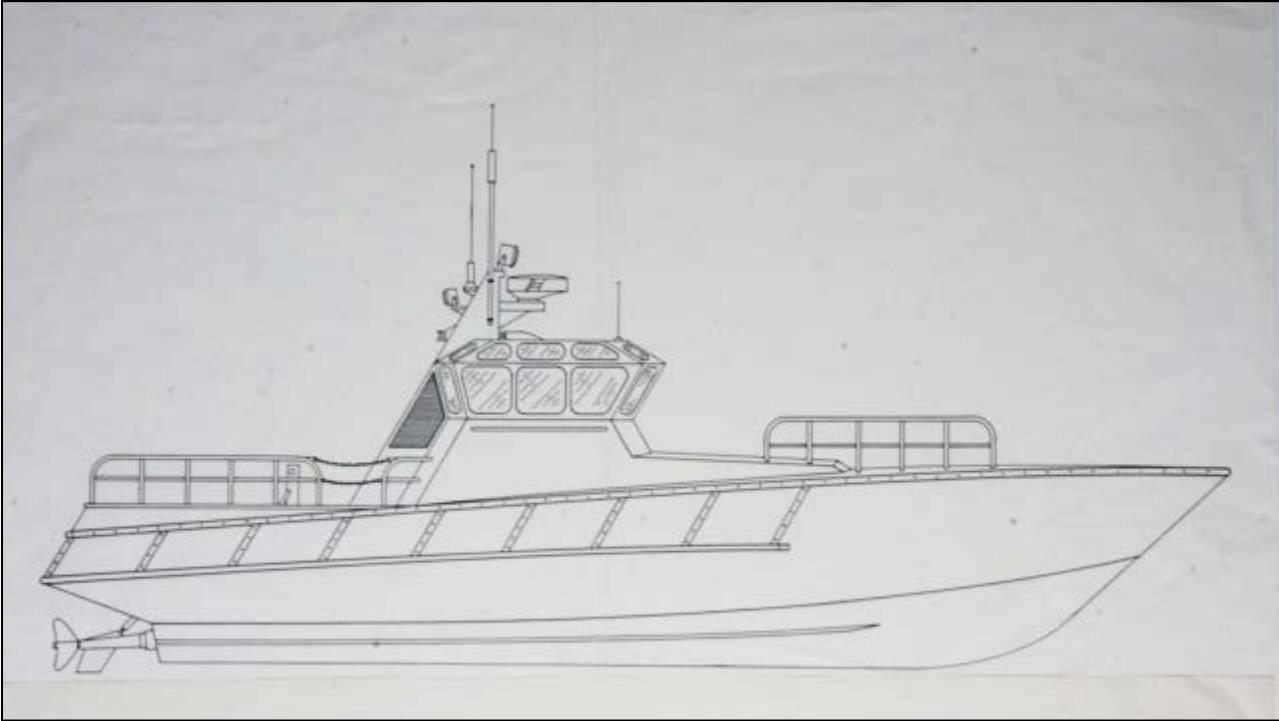
TOM SCHNEIDER DISCUSSES E 331
Create composite of all air barrier test
methods

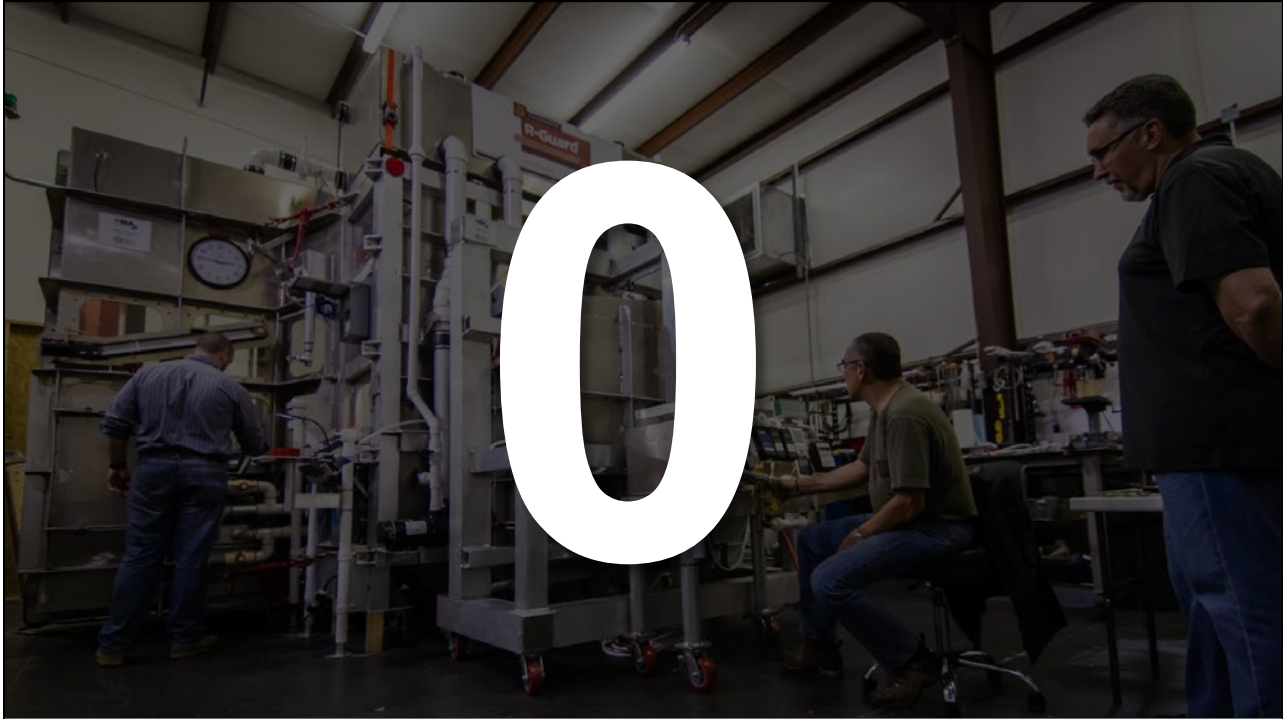












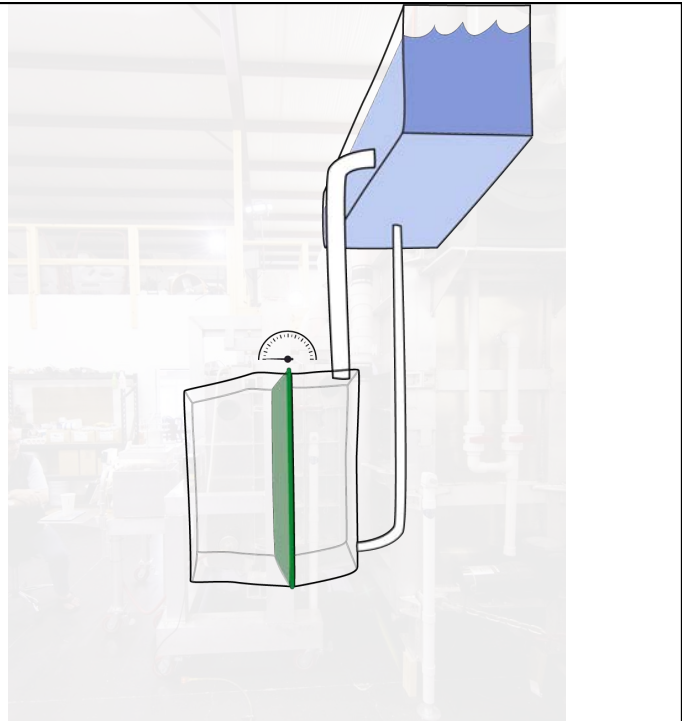






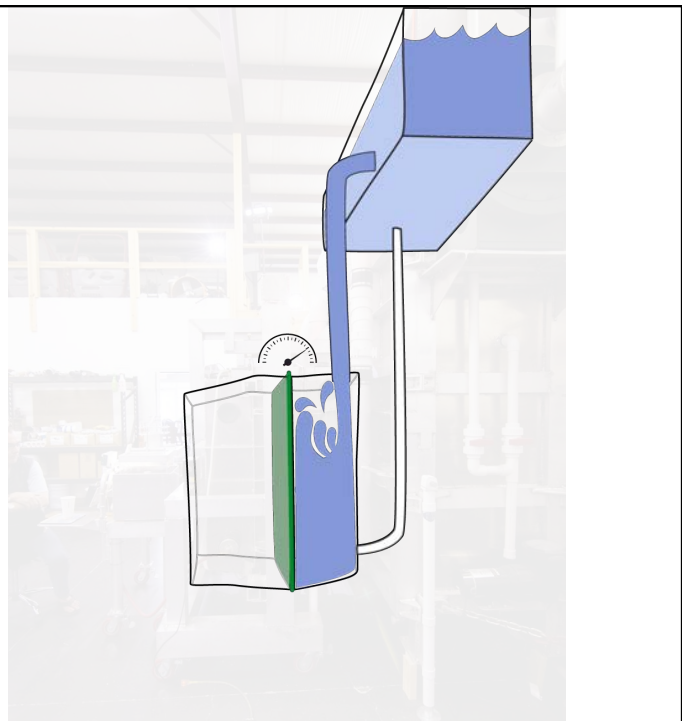
The Air Leakiness of OSB

Tidal Surge Tank



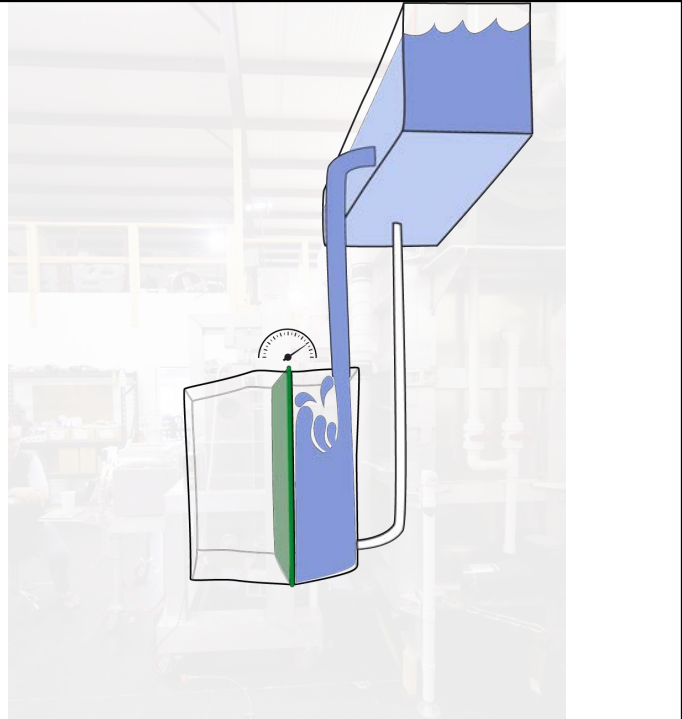
The Air Leakiness of OSB

Tidal Surge Tank



The Air Leakiness of OSB

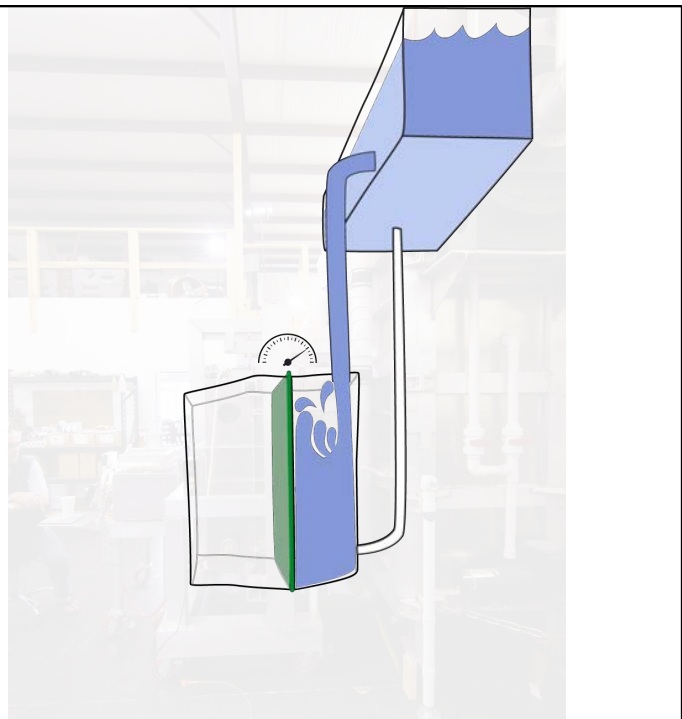
217 PSF



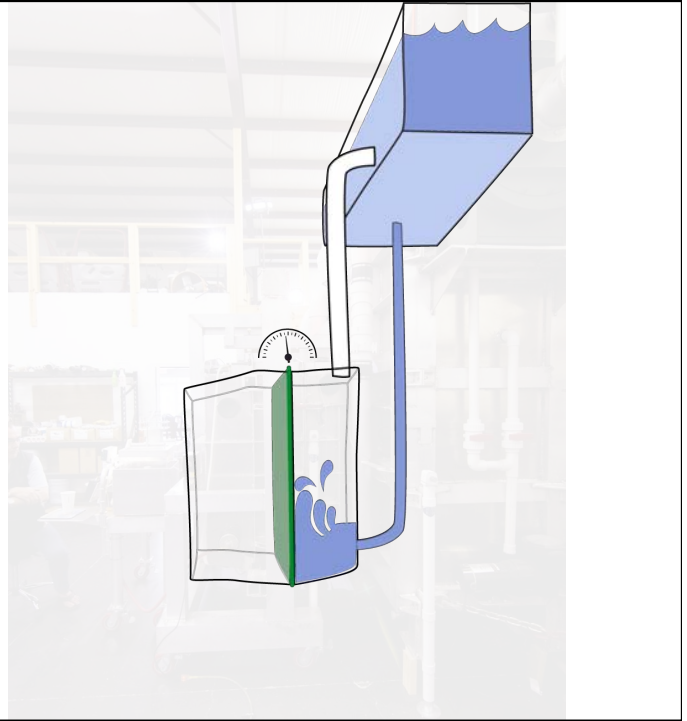
The Air Leakiness of OSB

217 PSF

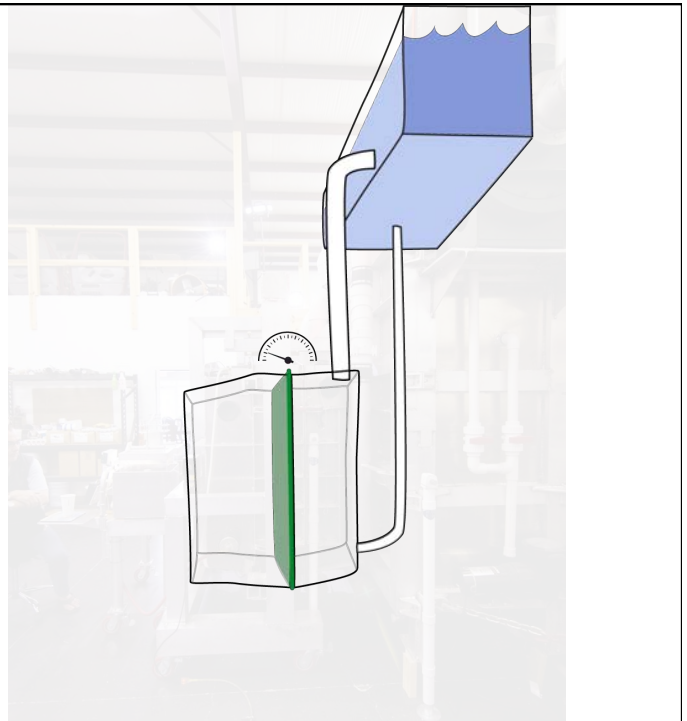
278 PSF



The Air Leakiness of OSB

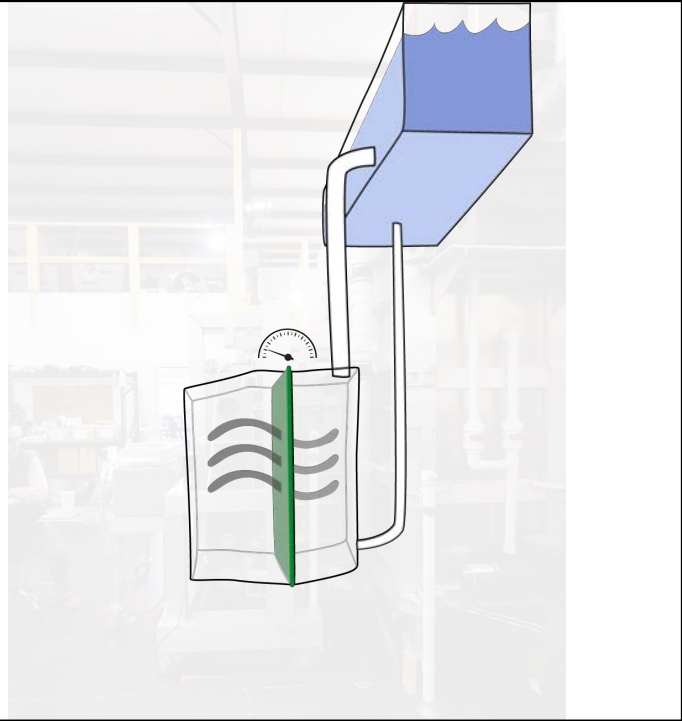


The Air Leakiness of OSB

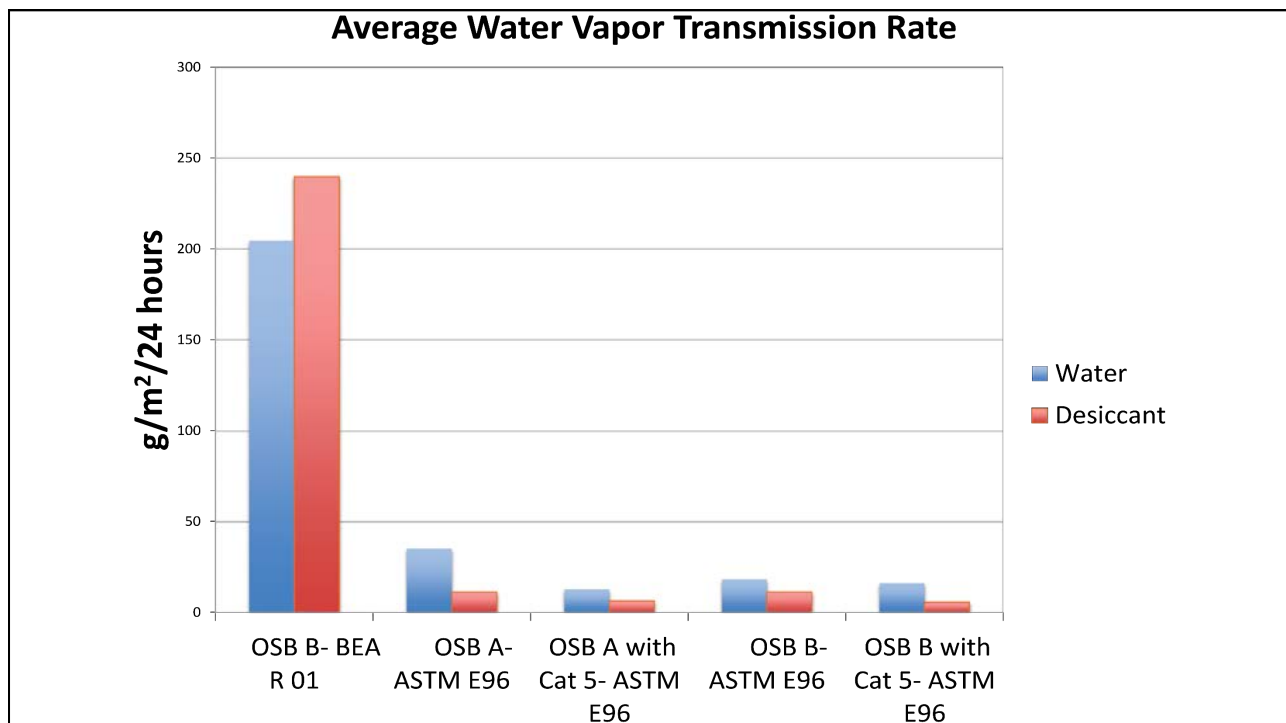
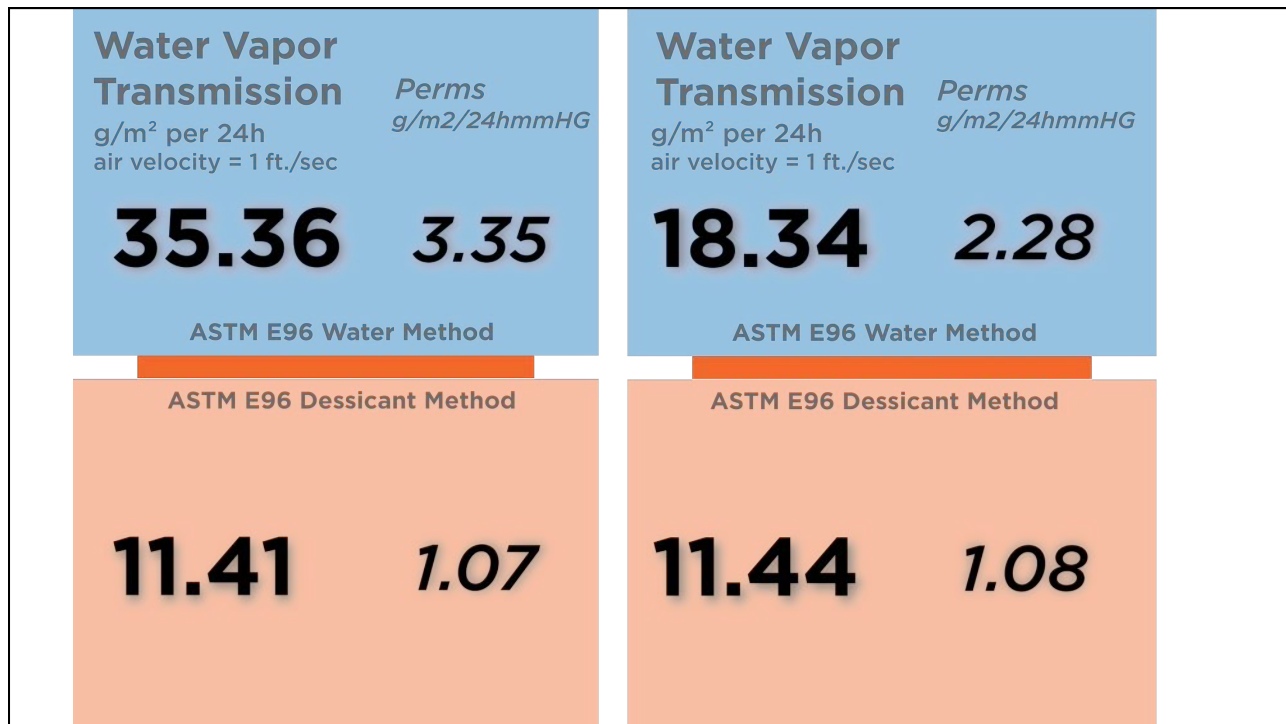


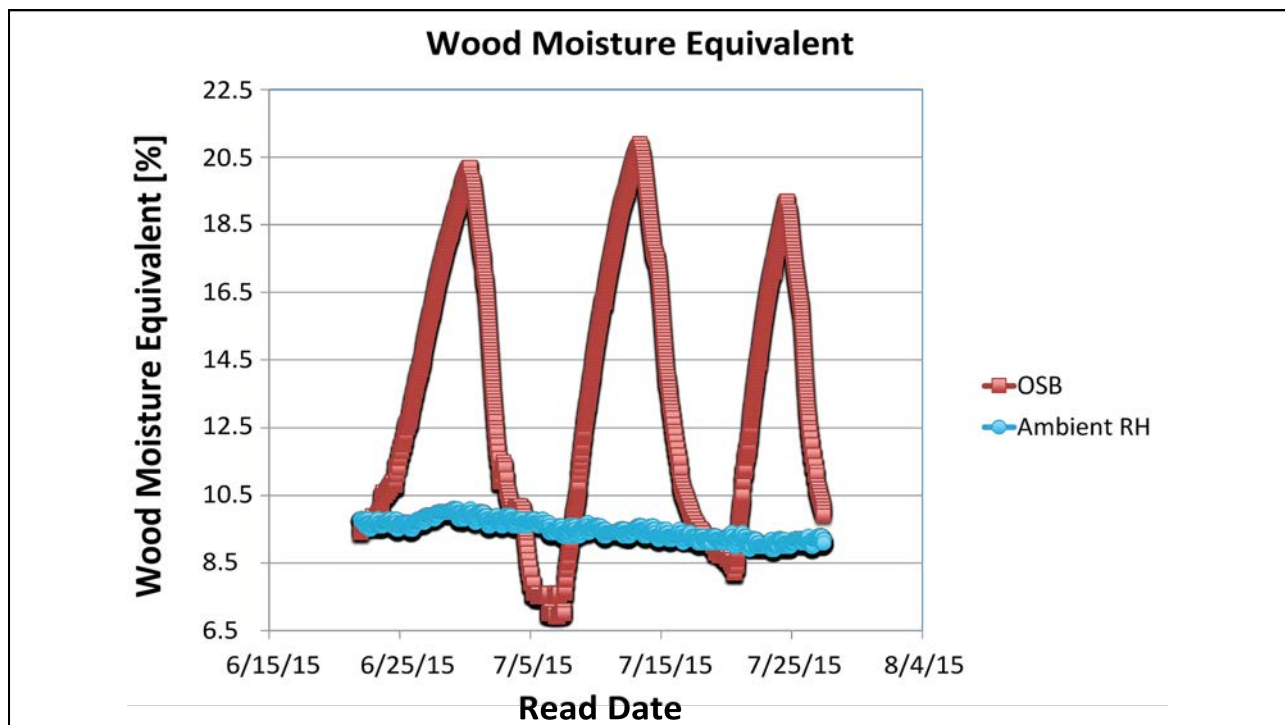
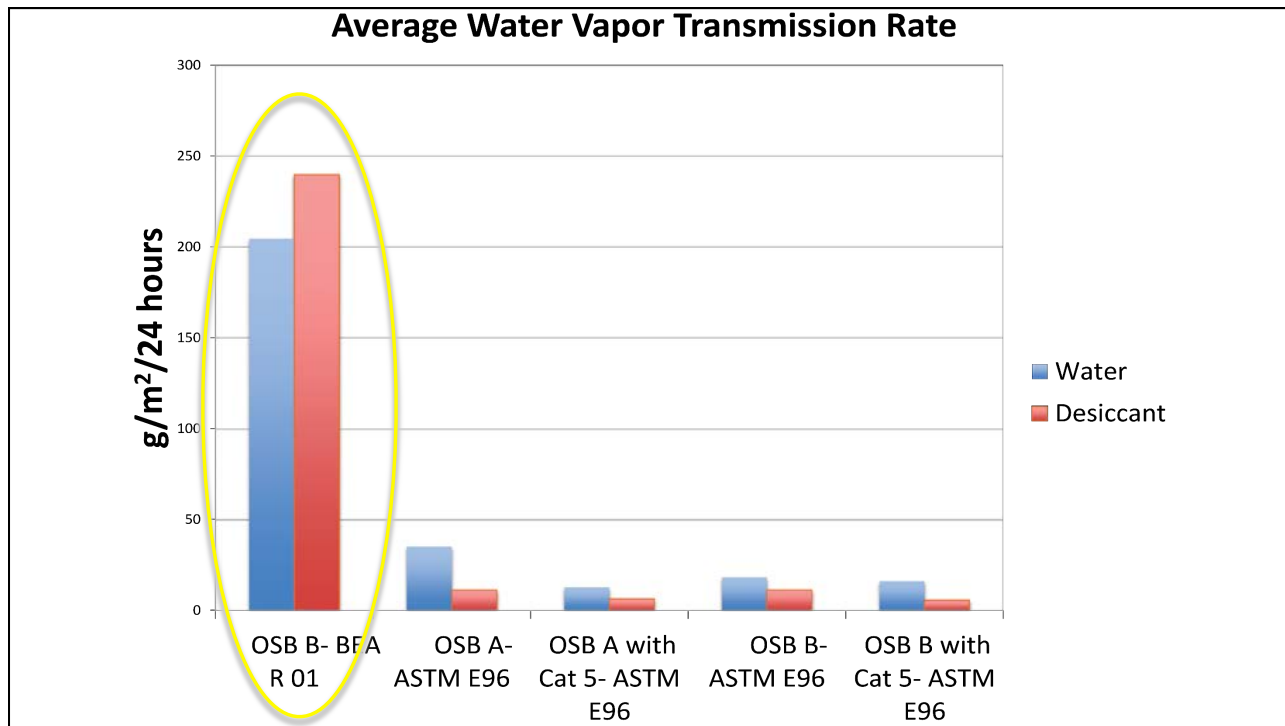
The Air Leakiness of OSB

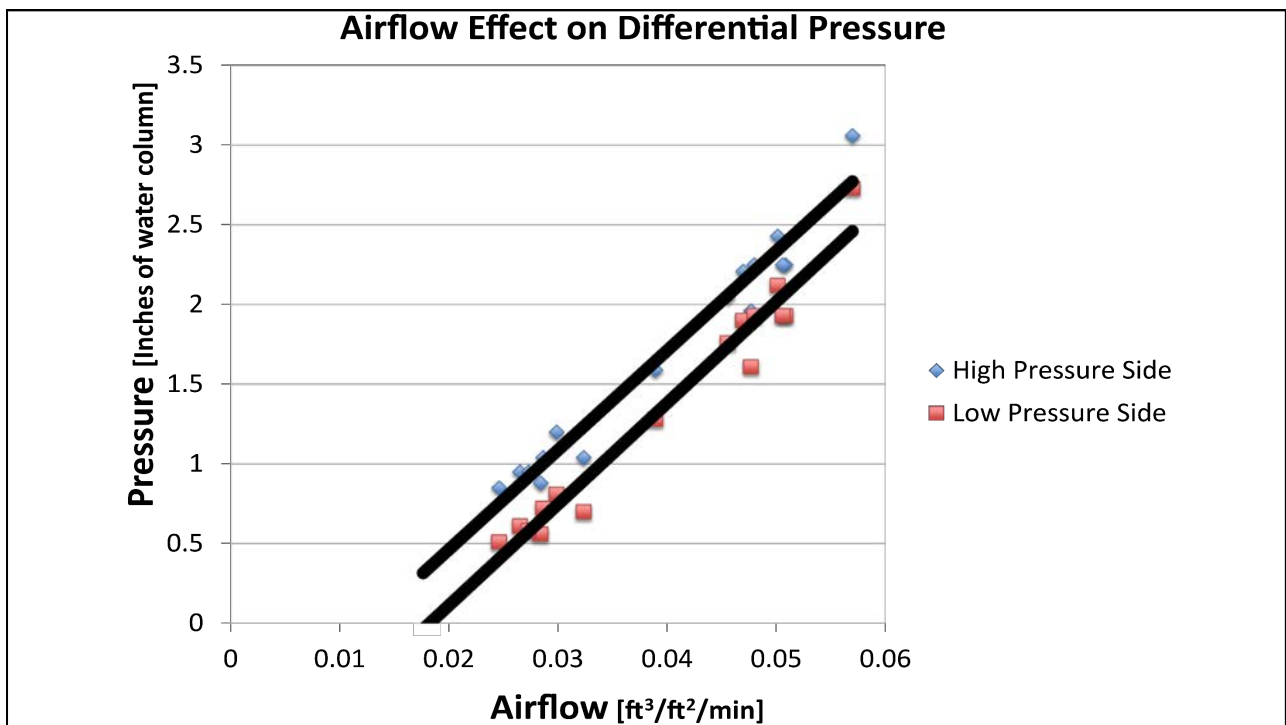
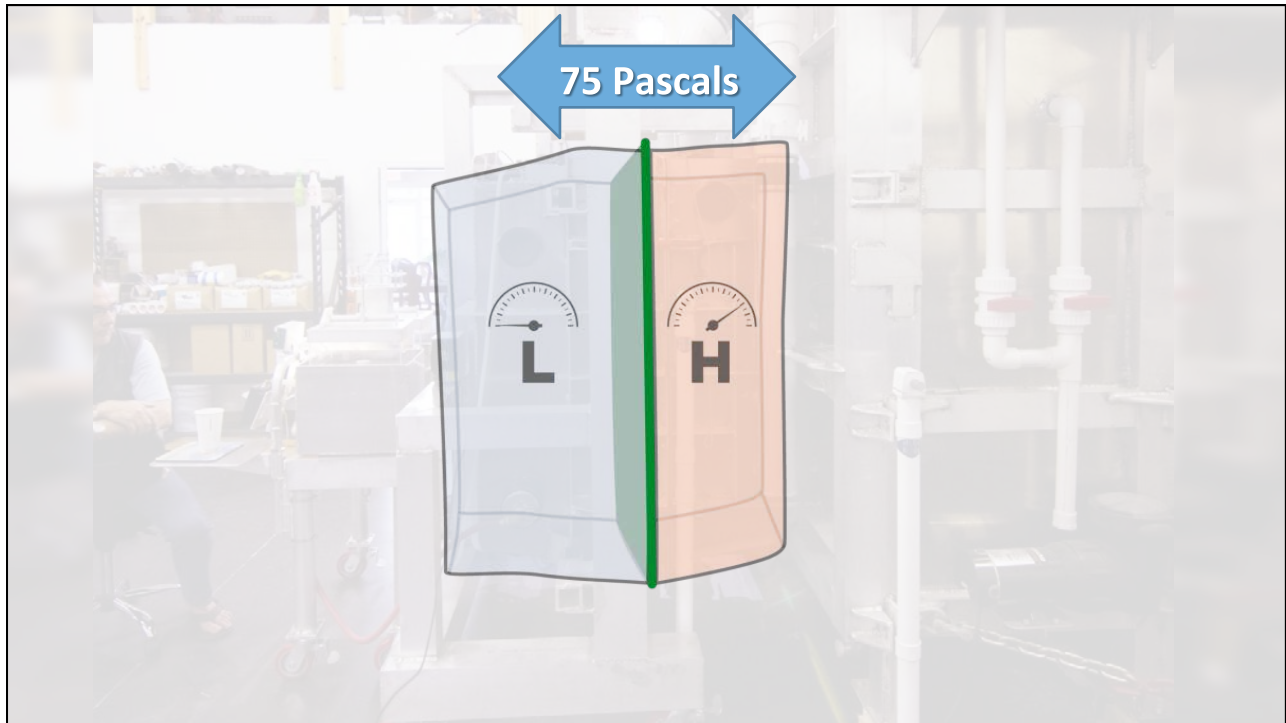
Initiate controlled drying

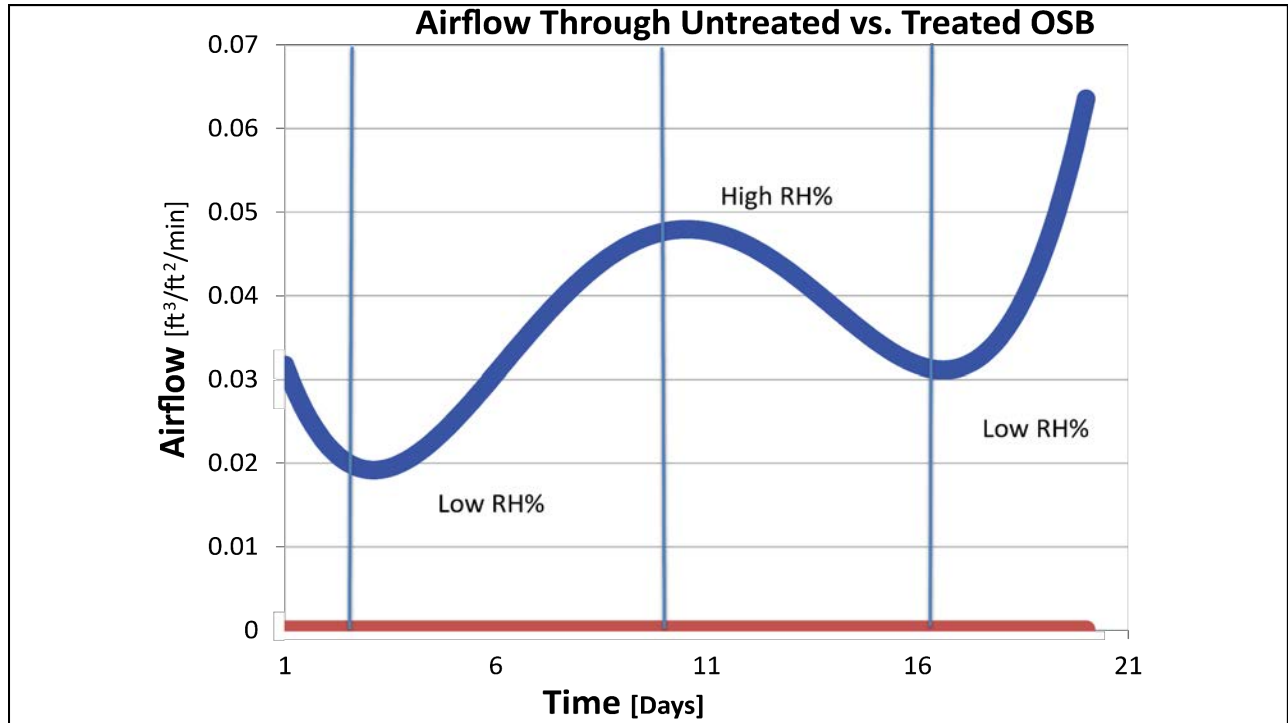


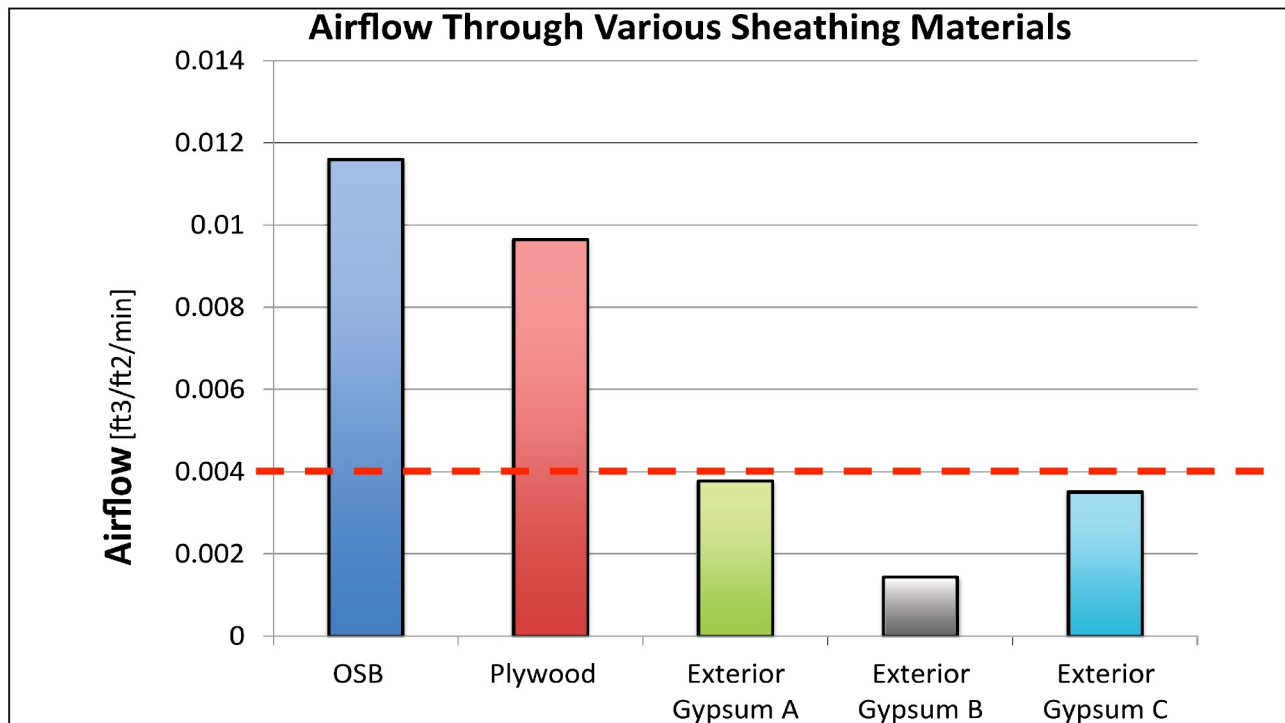
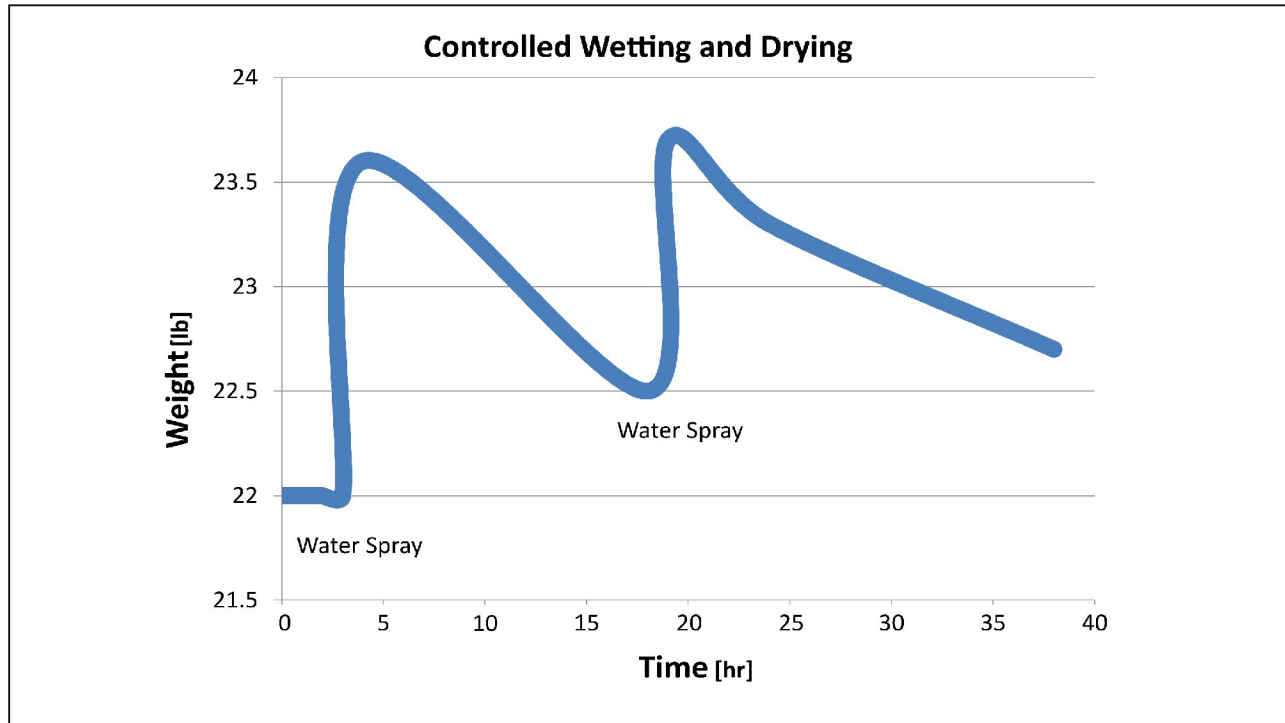


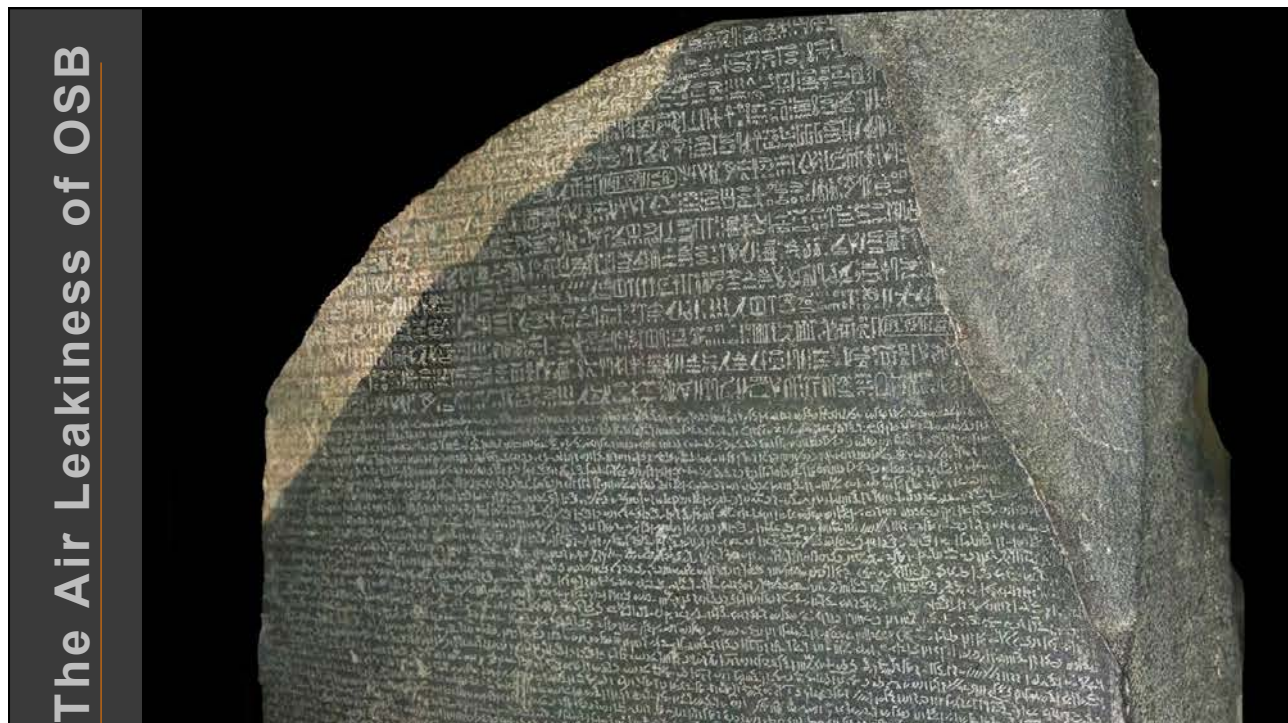
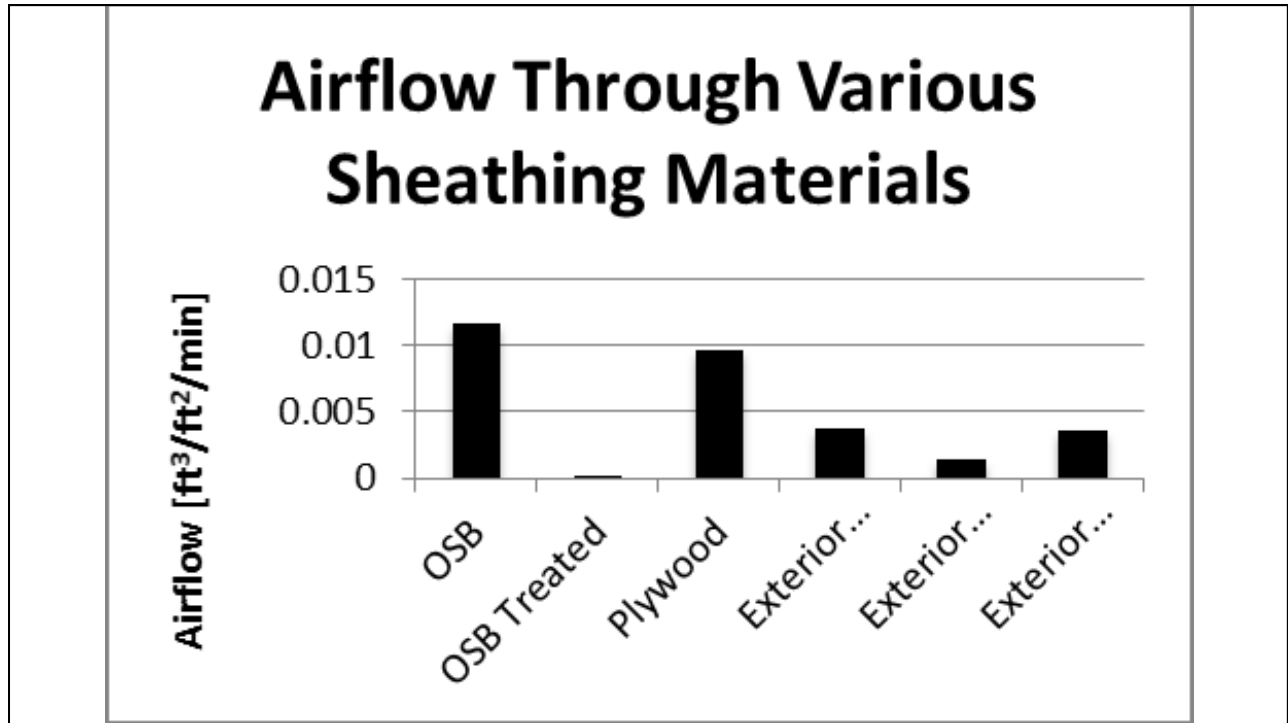


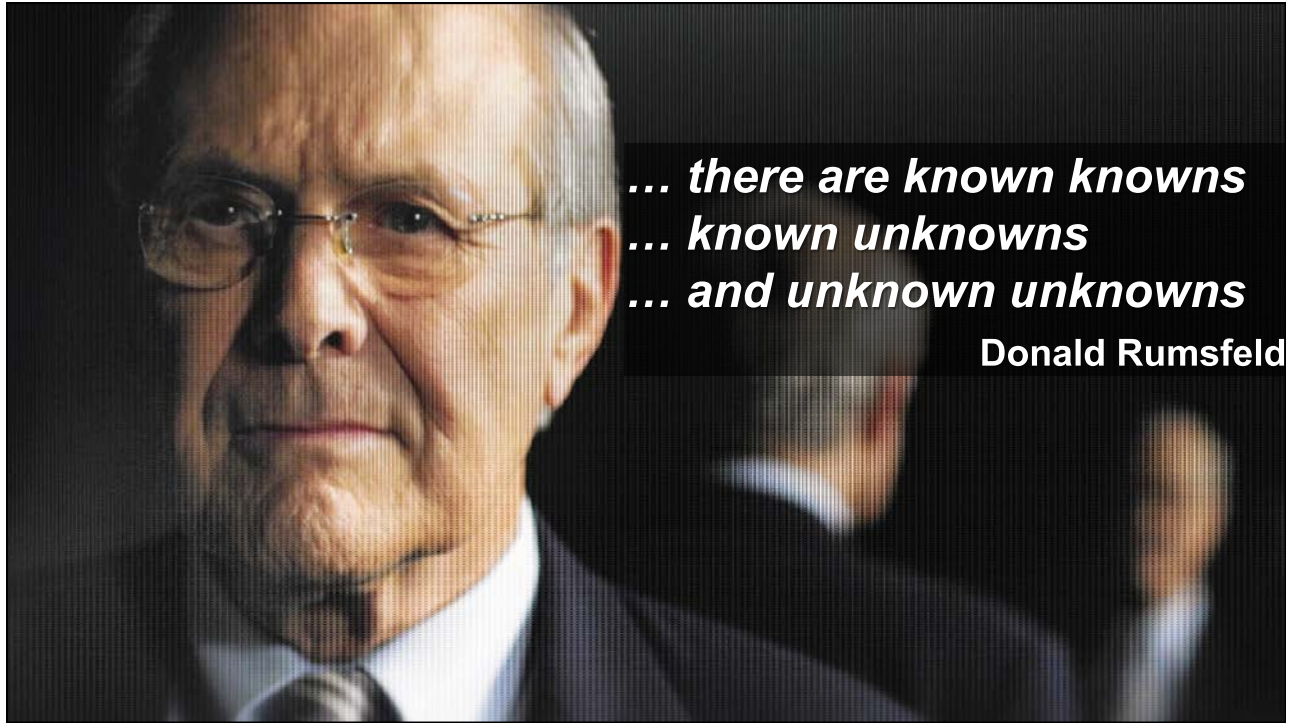
















***Airflow?
Not too much ...
Not too little ...***



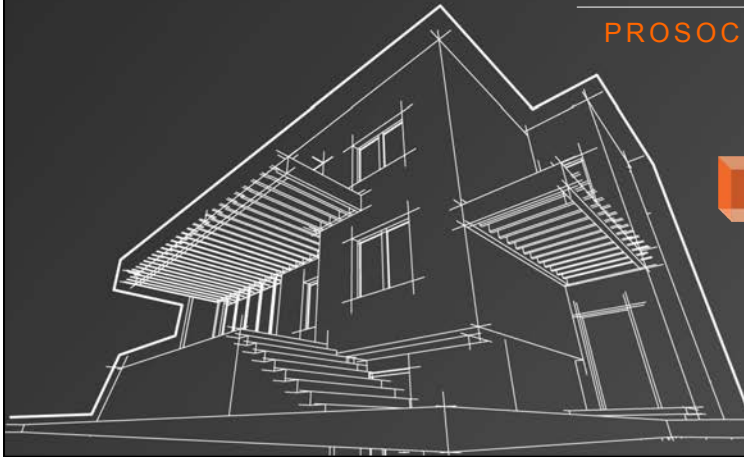
***Airflow?
Not too much ...
Not too little ...
Just right.***

The Air Leakiness of OSB

Measuring air and moisture flow through building materials and assemblies

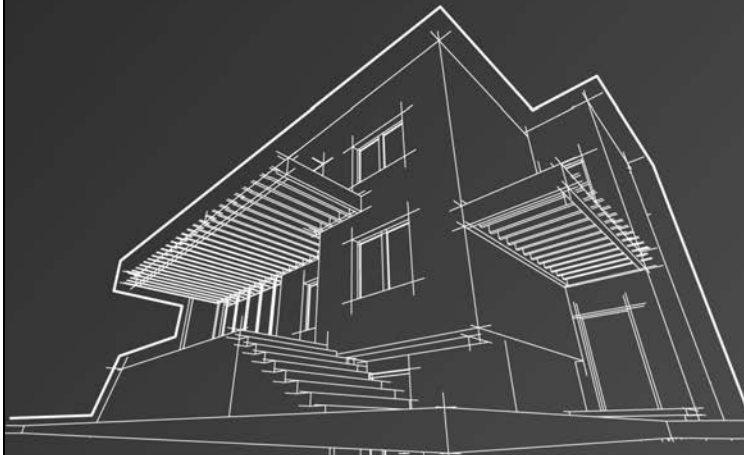
David W. Boyer & Tom Schneider

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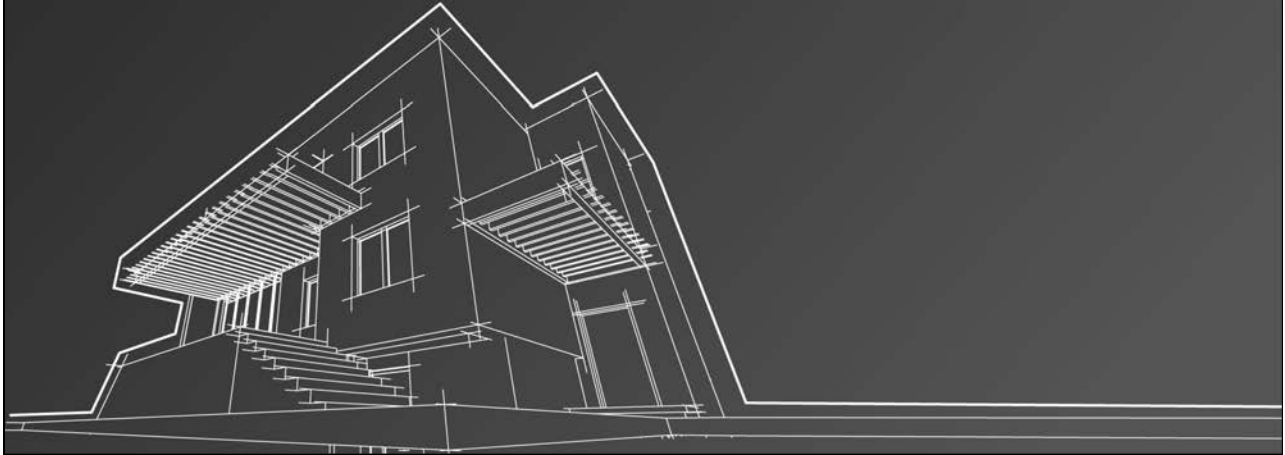
Reduced Airflow: Problems and Opportunities

Measuring air and moisture flow through building materials and assemblies



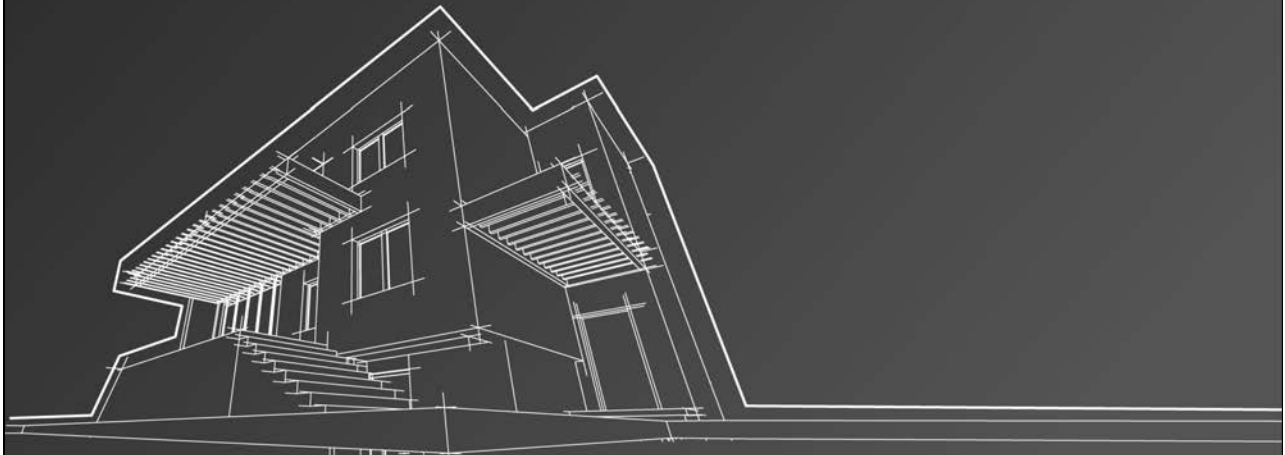
Resiliency – The Biggest Challenge to High Performing Buildings.

Measuring air and moisture flow through building materials and assemblies



Measuring the Drying Quotient of Building Assemblies

Measuring air and moisture flow through building materials and assemblies



The Air Leakiness of OSB

Measuring air and moisture flow through building materials and assemblies

David W. Boyer & Tom Schneider

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