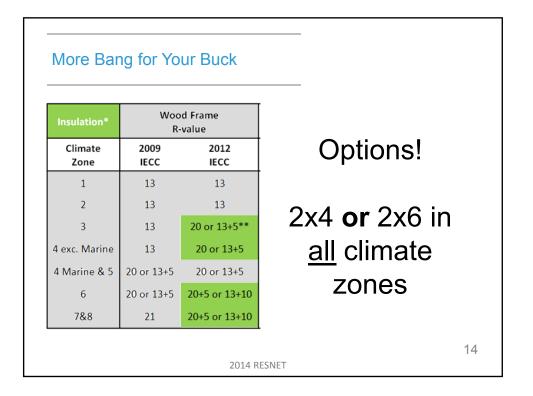
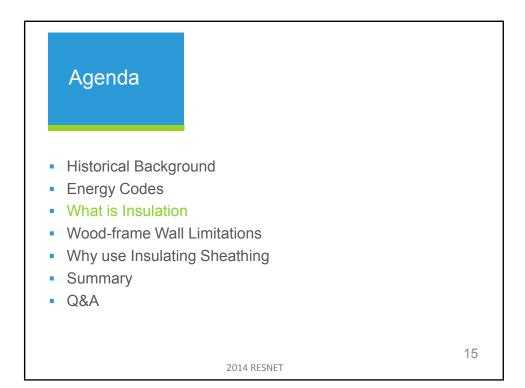
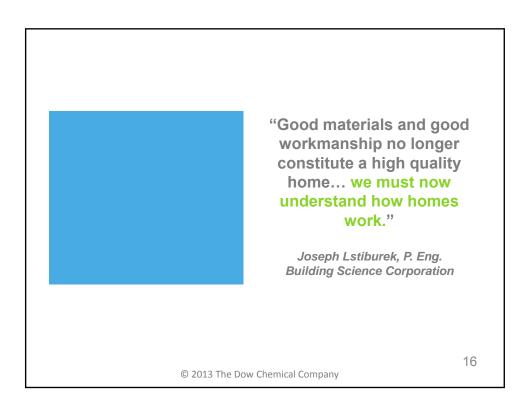


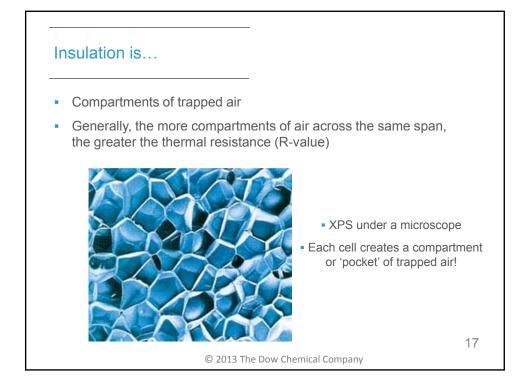
Improveme	nts over 20	109 IECC are sl	haded in	green		
Insulation*		od Frame •value	Basen R-va		Crawl R-Va	•
Climate Zone	2009 IECC	2012 IECC	2009 IECC	2012 IECC	2009 IECC	2012 IECC
1	13	13	0	0	0	0
2	13	13	0	0	0	0
3	13	20 or 13+5**	5/13***	5/13	5/13	5/13
4 exc. Marine	13	20 or 13+5	10/13	10/13	10/13	10/13
4 Marine & 5	20 or 13+5	20 or 13+5	10/13	15/19	10/13	15/19
6	20 or 13+5	20+5 or 13+10	15/19	15/19	10/13	15/19
7&8	21	20+5 or 13+10	15/19	15/19	10/13	15/19

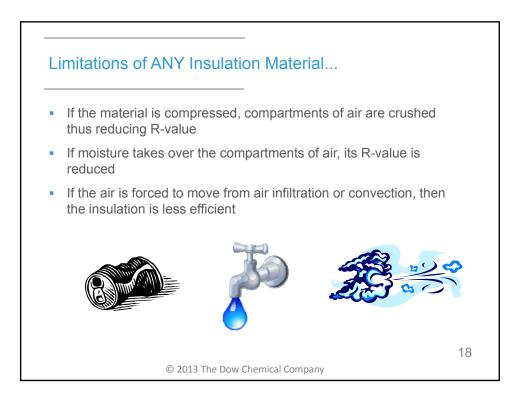
kage/Test	<u> </u>			green	
	Air Leakage Requirements		Air Leakage Testing Requirements		
Climate Zone	2009 IECC	2012 IECC	2009 IECC	2012 IECC	
1 2	Continuous air barrier	Continuous air barrier	≤ 7 ACH 50	≤ 5 ACH 50	
3 4 exc. Marine 4 Marine & 5	visual inspection checklist OR air leakage	visual inspection checklist AND air leakage		≤ 3 ACH 50	
6 7&8	test required	test required			

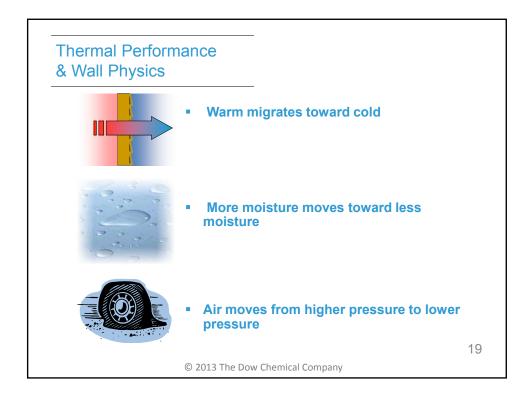


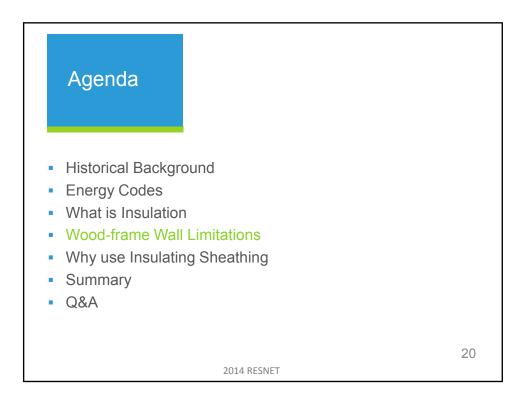


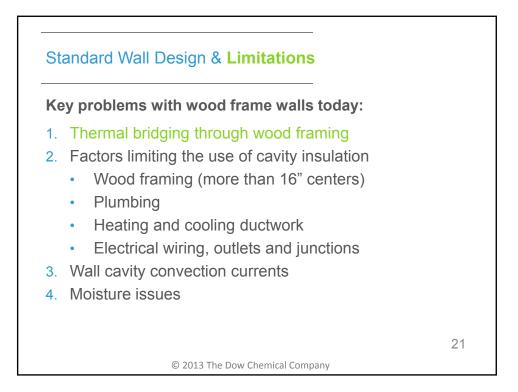


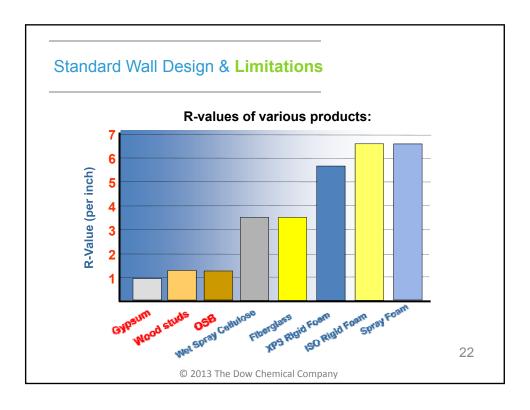


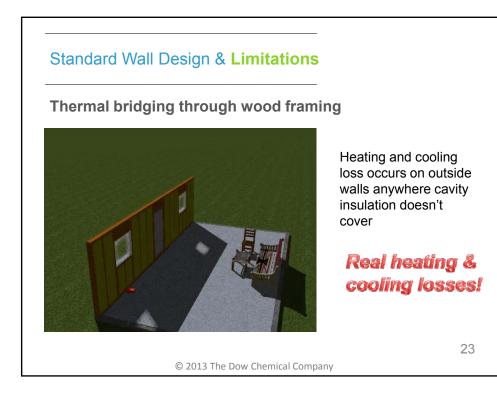






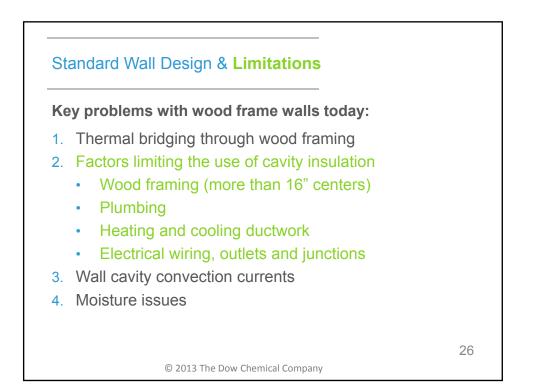


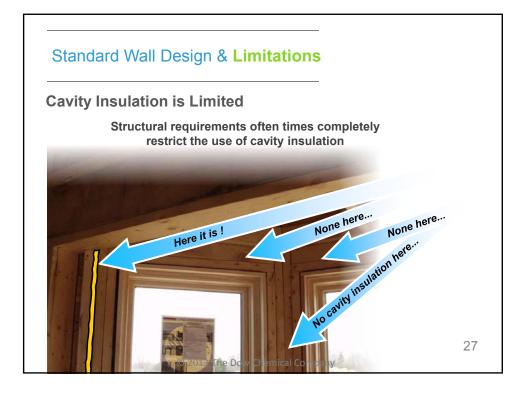




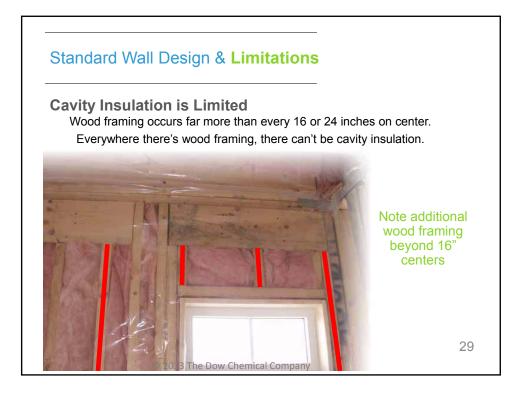




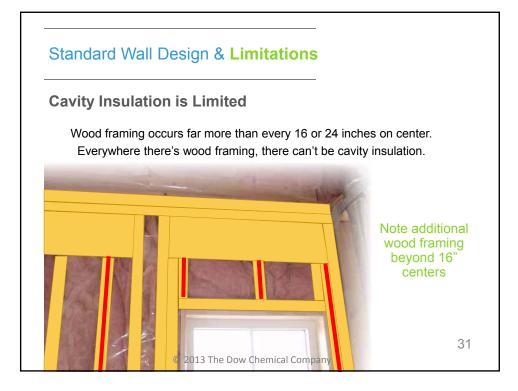




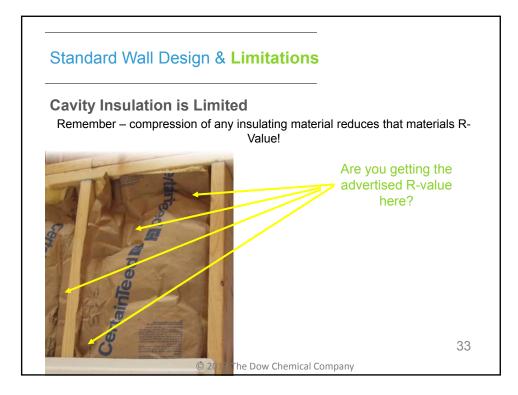




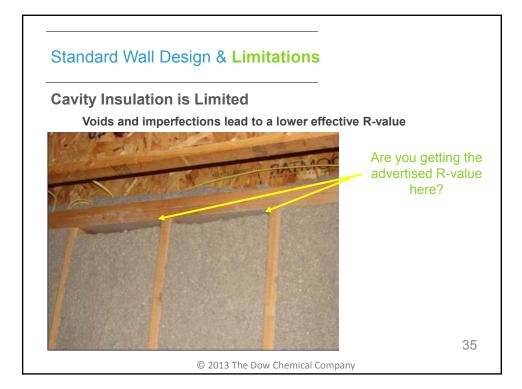


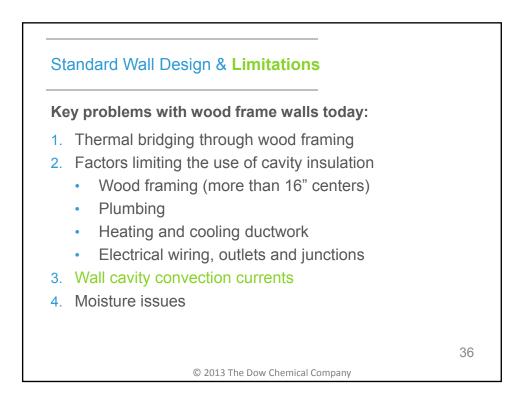


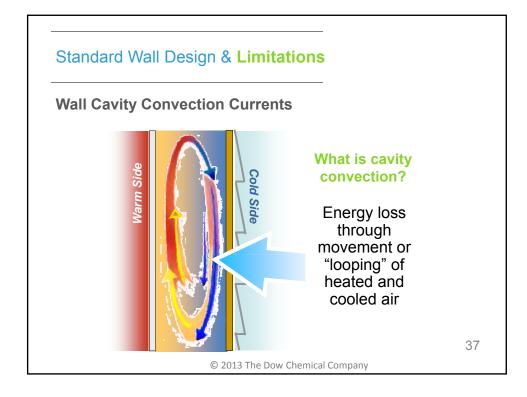


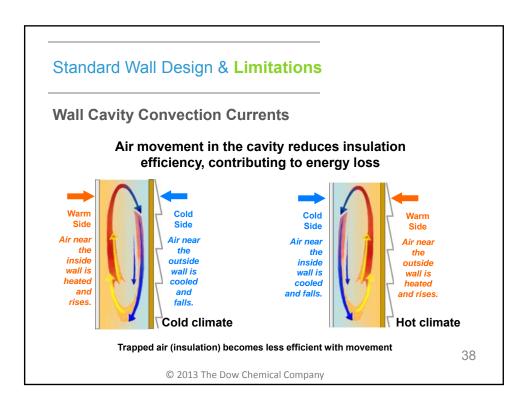


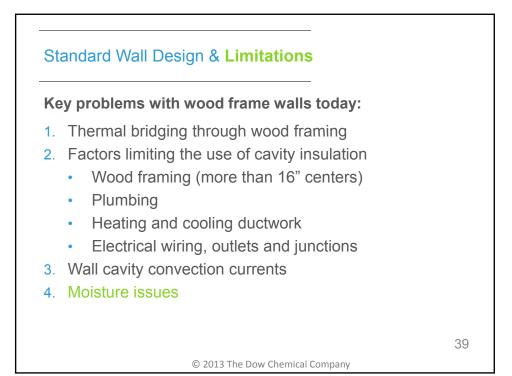


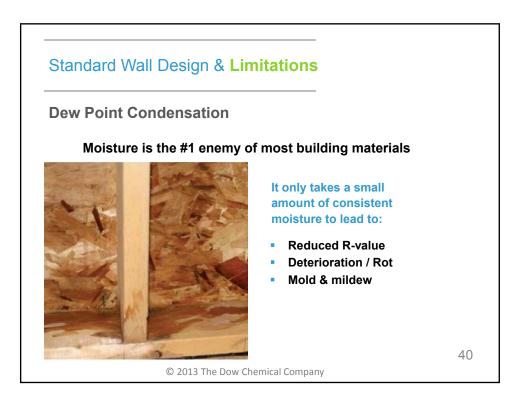


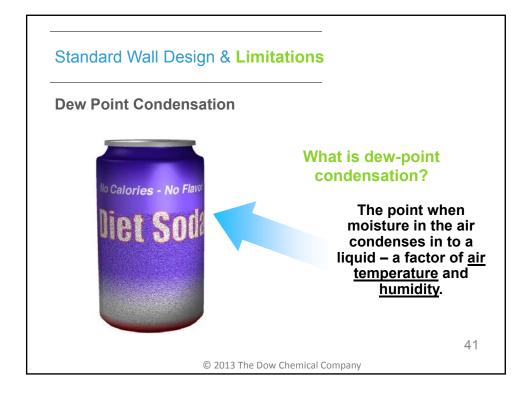


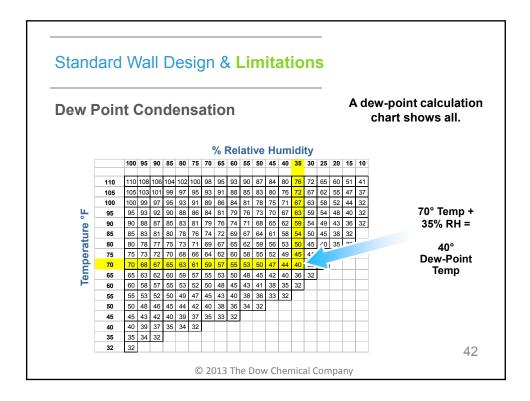


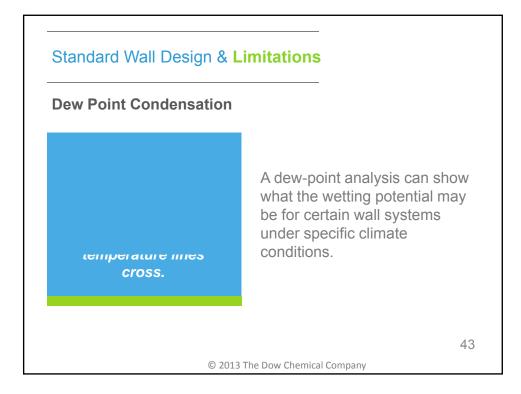


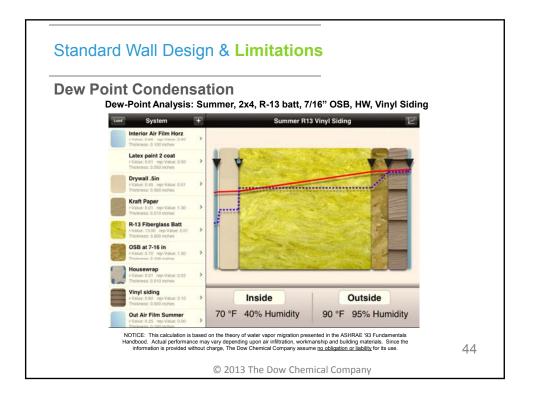


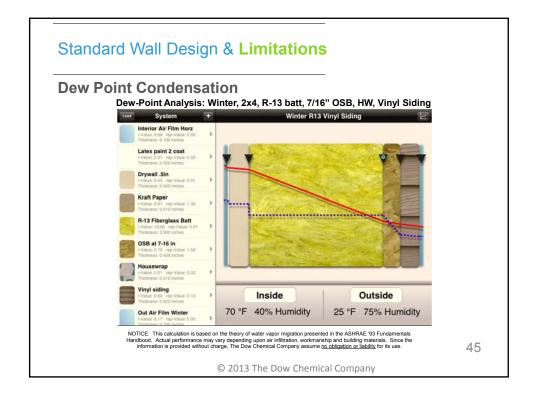




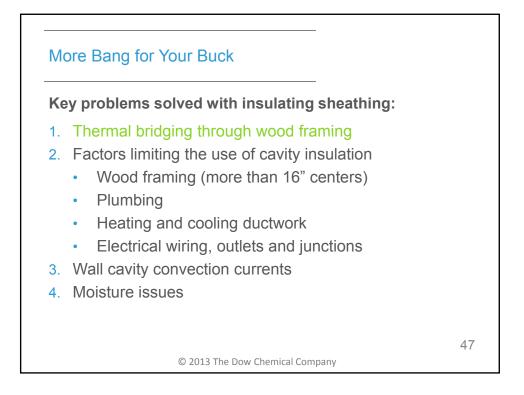


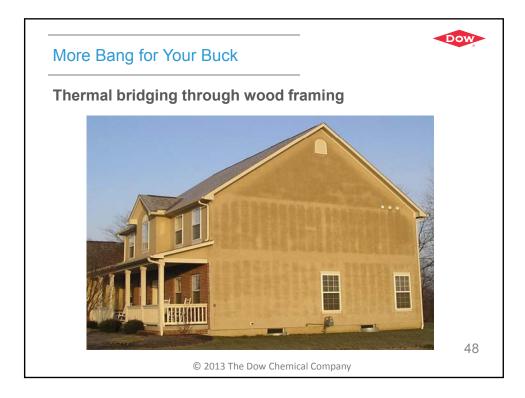


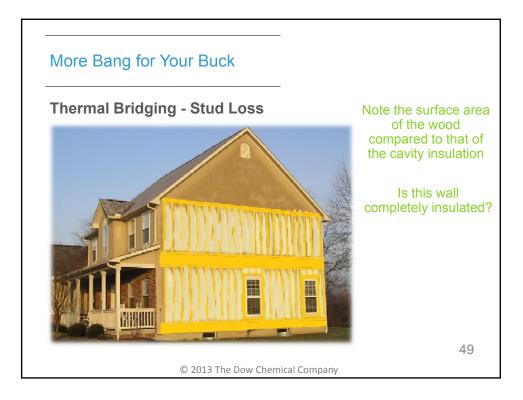


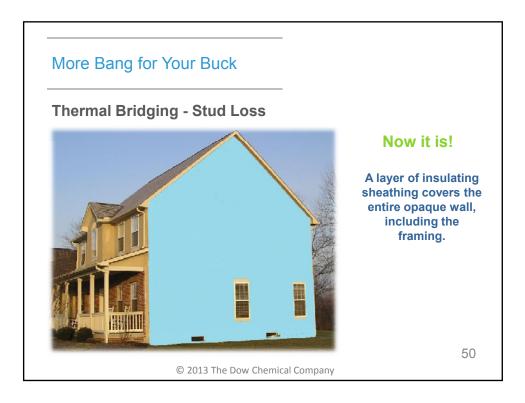


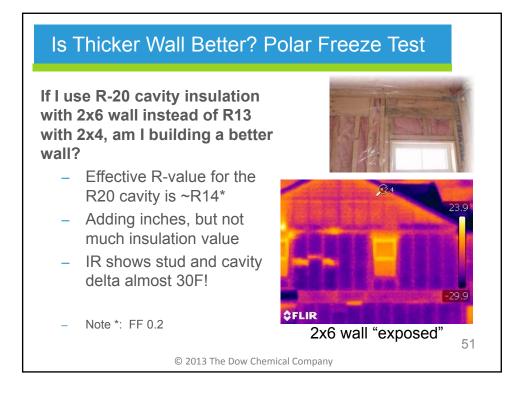


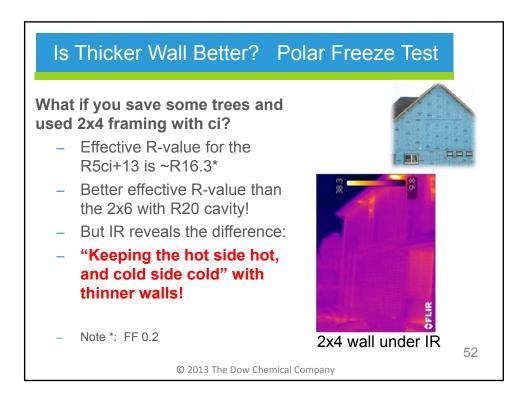


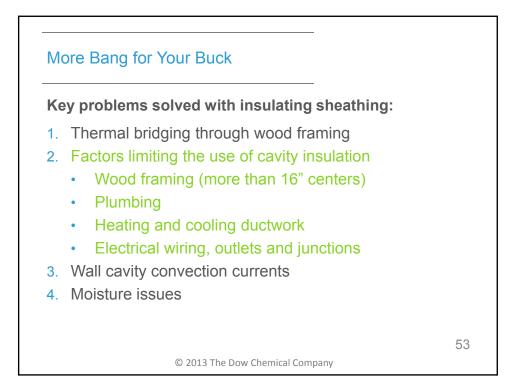




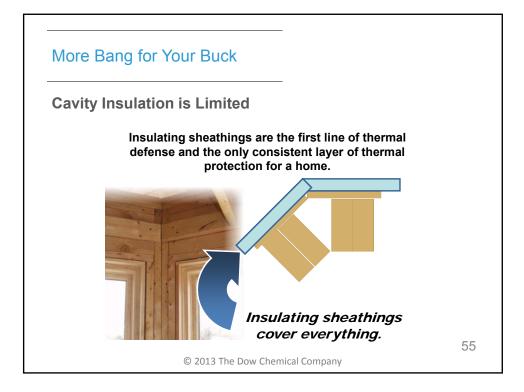


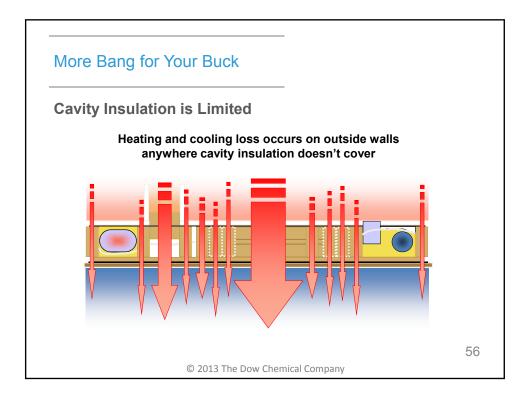


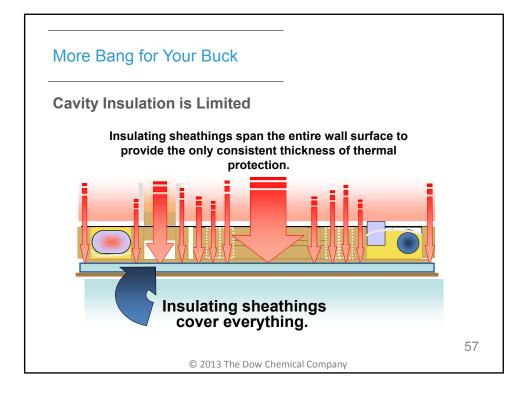


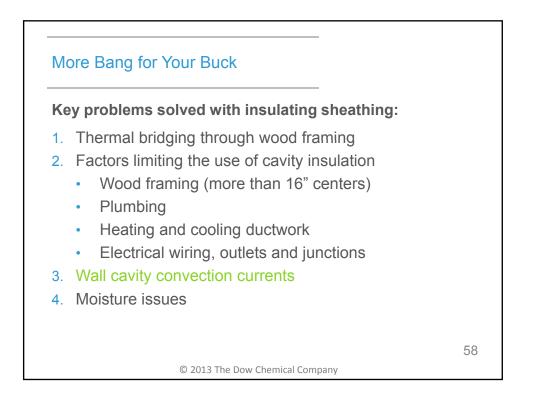


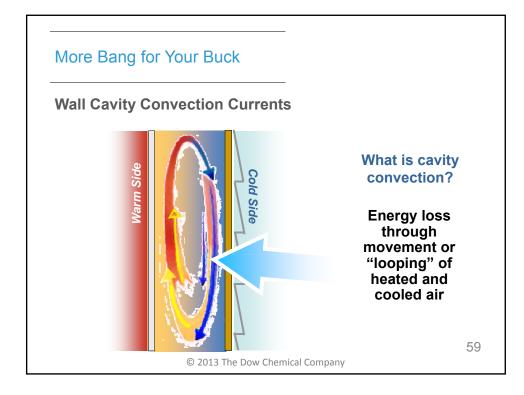


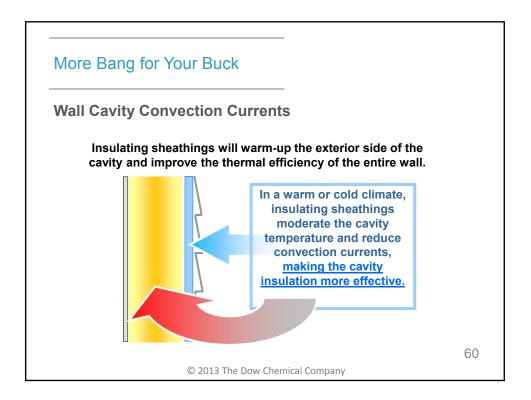


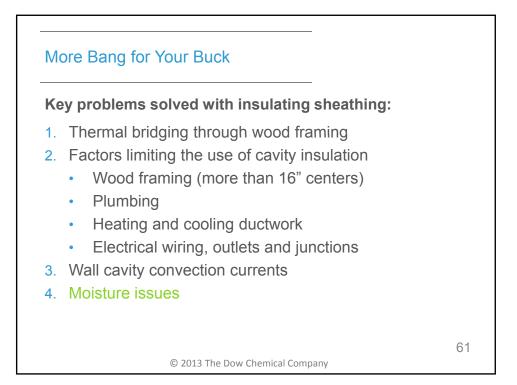




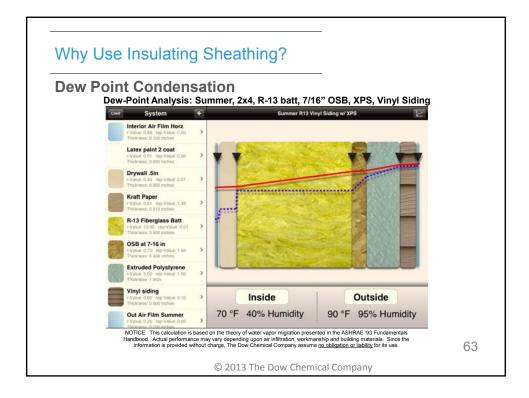


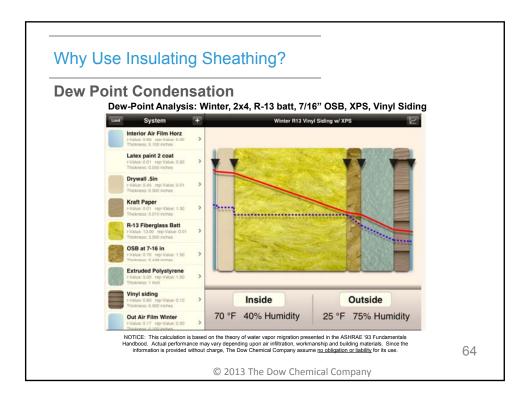


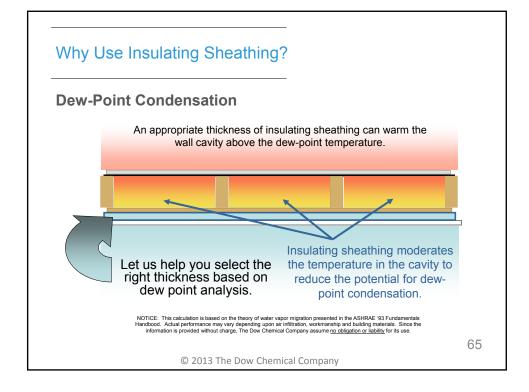


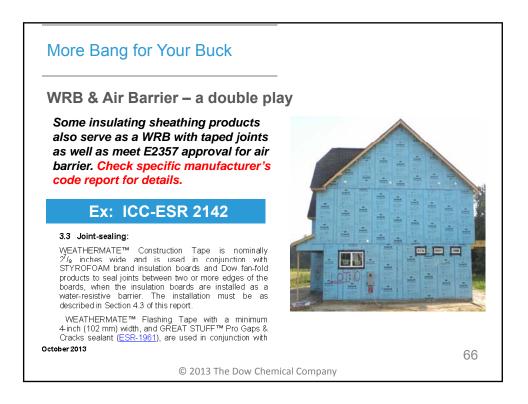


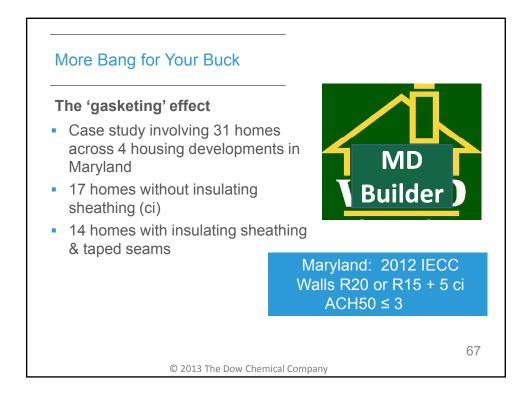


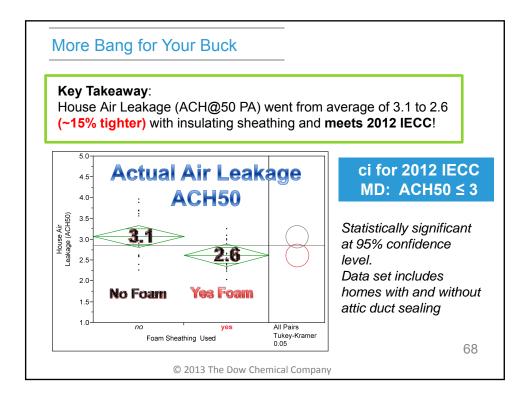


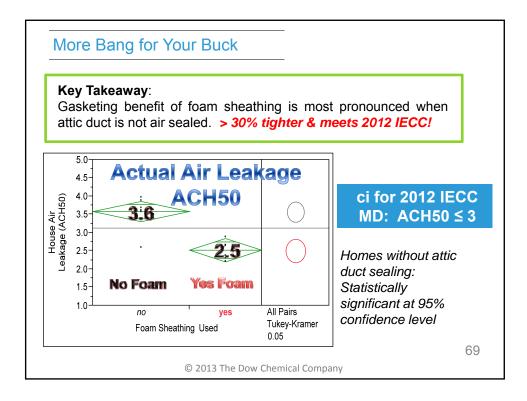


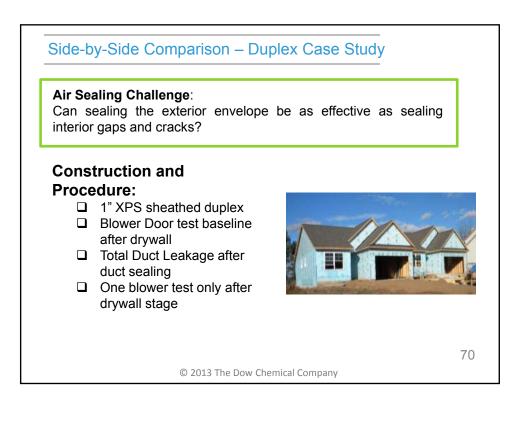




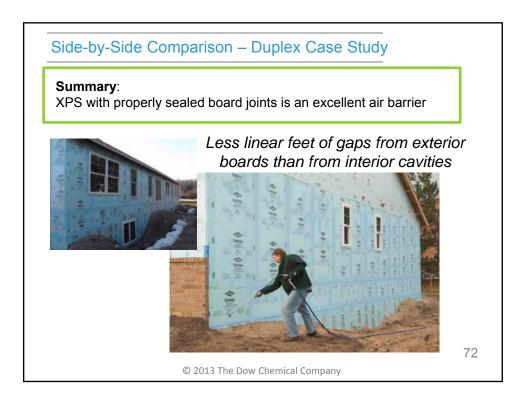








	s. Liquid Flashing:	r air agaling	
with interior all sealing	ng vs. simple exterio	r all sealing	
Target Area	Left Unit – SPF Cavity	Right Unit – Exterior	
_	Insulation	Flashing Only	
	2131 Total sqft	2131 Total sgft	
Cavity Insulation	2# SPF	Fiberglass only	
Window Flashing	Sill pan with normal detailing	Sill pan with normal detailing	
XPS Joint Sealing	Таре	Liquid flashing and	
		sealant on XPS board joints	
Attic insulation	Sprayed cellulose	Same as Control.	
Can lights and other interior penetrations		Not done.	
Stud to Stud interfaces	Latex caulk	Not done.	
Building Volume (ft3)	25, 196	25, 196	
Adjusted Blower Door Leakage (cfm)	755	853 <i>(+13%)</i>	
ACH50	1.8	2.0	
HERS	63	62	



More Bang fo	or Your Buck		
Three homes bu	uilt for each energ	y efficiency desigr	n, climate zone 5/6
Baseline HERS 82	Meet 2006 IECC lowest possible price point	Establish baseline for comparison	
2012 Performance Minimum cost HERS 57	Meet 2012 IECC lowest possible price point	Collect data for this likely choice of many builders	
2012 Performance Premium Package HERS 57	Meet 2012 IECC building science best practices	Show that with minimum additional up front cost, generate higher ROI through lower energy use	
Beyond Code Premium Package HERS – mid 40s	Exceed 2012 IECC Renewable ready	With more significant up front cost, achieve higher ROI	
73	20	14 RESNET	

More Bang for Y	our Buck	
Key Takeaway: Modeled vs. actual continuous insulatio	energy consumption is clo	ser for designs with
Category of Homes	Difference between Actual Annual and Modeled Energy Use (%)	
2006 IECC	-53%	
2012 IECC	-16%	
2012 IECC Prem	-5%	Less offset in
2012 IECC		prediction for the Higher Performance
Beyond	7%	Homes
		74
	© 2013 The Dow Chemical Compa	any



