Air Sealing Opportunities in New Construction





Fiber Vs Foam. The Game is On!

Corning's groundbreaking air-sealing study, give us a

better understanding of the impact air leakage has on a home's performance. We now know that most air leakage occurs where components are joined, not in framing cavities where most insulation is installed. Extensive research shows that once a building is sealed, R-value, not insulation type, is all that

matters for thermal performance. Owens

Corning understands that insulating and air sealing are two separate concerns that

require dedicated solutions.



What Is Bibs?

The acronym BIBS® is a registered trademark of BIBCA (Blown-in Blanket Contractors Association). Not all blown-in fiberglass manufacturers belong to this organization, and hence the acronym cannot be applied to all blown-in wall insulation systems.

Blown in place wall insulation is tested in accordance to ASTM C522 - Air resistance of Acoustical Materials. Results from the CertainTeed manufacturer's test indicated that when applied at densities of 2.2 lbs. per cu. ft., the material has the same resistance to airflow as cellulose at 3.5 lbs per cu. ft. (CertainTeed 2013).

In Field QC





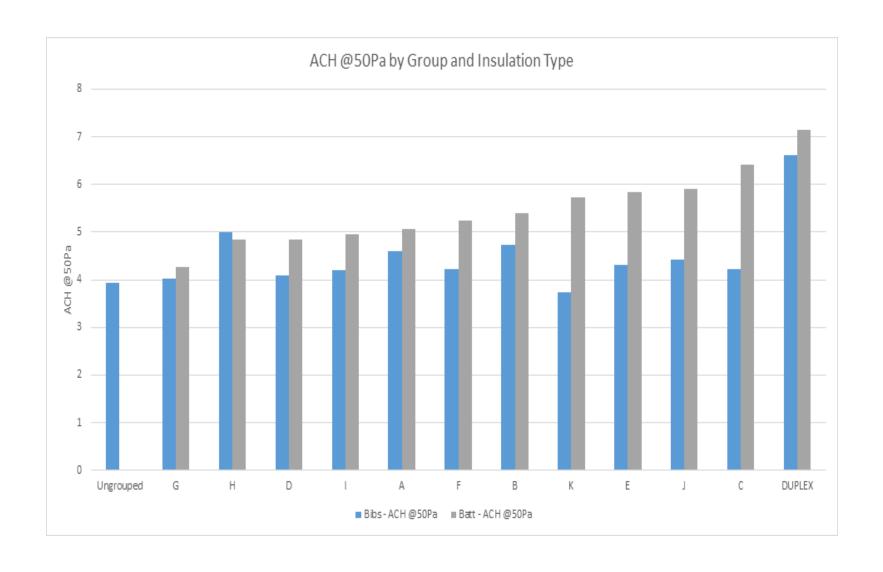
ACH in Context. Northwest Energy Star Homes

Year	ID	MT	OR	WA	
2004	6.81	-	-	5.28	
2005	6.66	3.41	5.84	5.08	
2006	5.33	2.06	5.77	5.02	
2007	4.71	2.99	5.34	5.00	
2008	4.40	3.16	5.21	4.00	
2009	4.44	3.00	5.09	3.82	
2010	3.57	3.27	4.44	3.59	
2011	3.21	2.77	4.14	3.47	
2012	3.39	2.35	3.68	3.22	
2013	3.51	2.23	3.26	3.12	

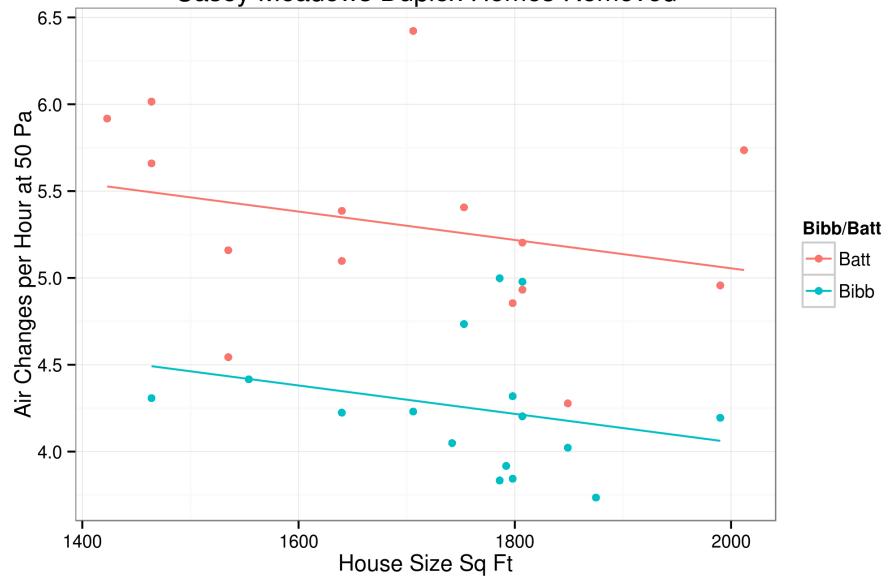
Raw Numbers

		Blown-in	
Measurement	Batt	Wall	Difference
ACH50	5.766	4.724	-1.042
CFM50	1,314	1,114	-199
CFM50/sq. ft.	0.828	0.677	-0.151
CFM50/exterior sq. ft.	0.307	0.252	-0.055

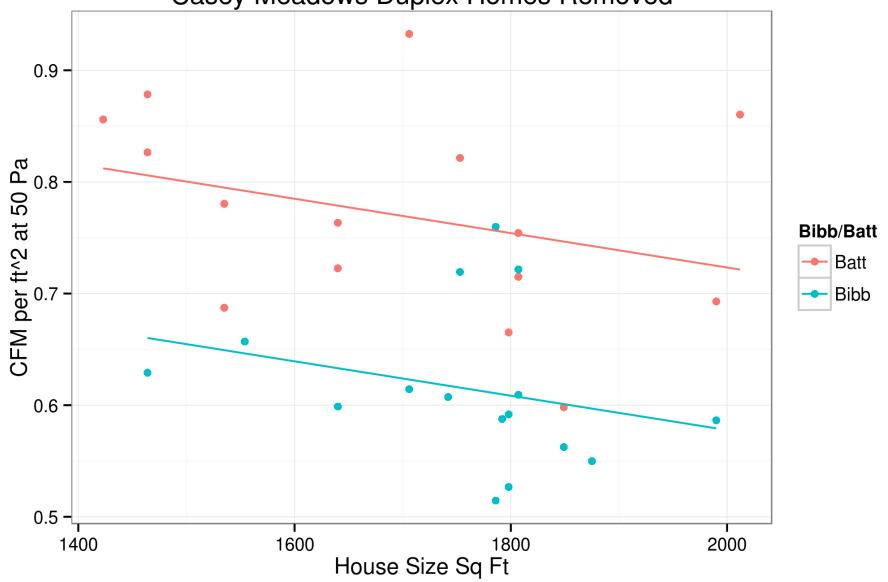
Matched Pairs Results

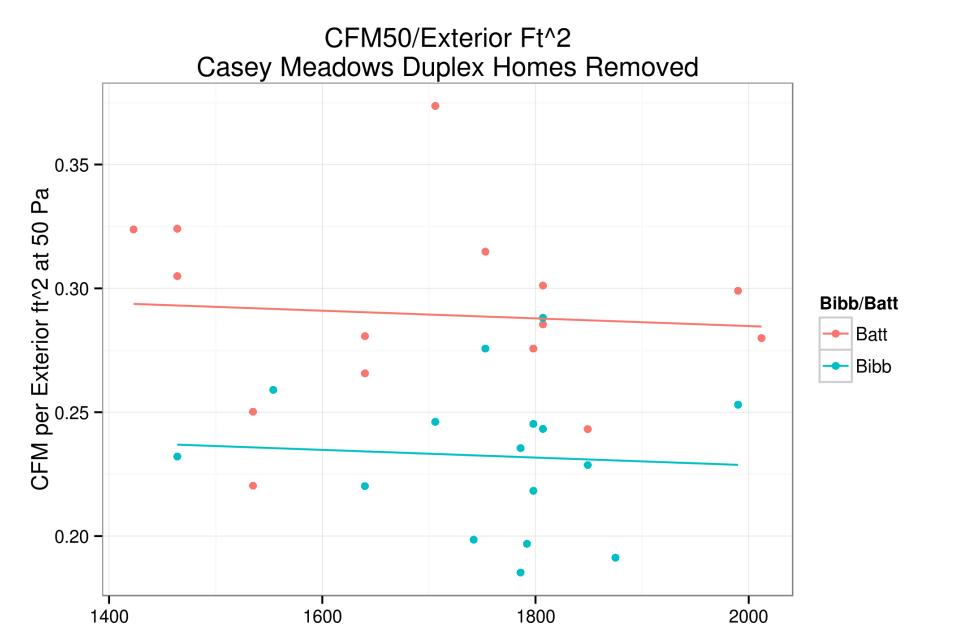


ACH50 by House Size Casey Meadows Duplex Homes Removed

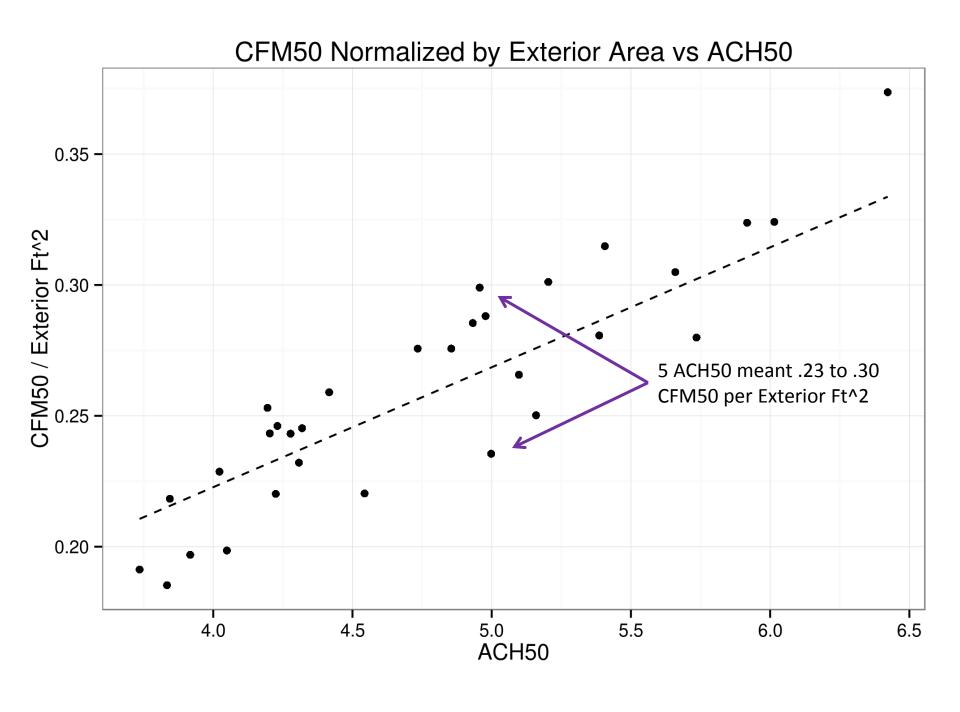


CFM50 / Ft^2 by House Size Casey Meadows Duplex Homes Removed

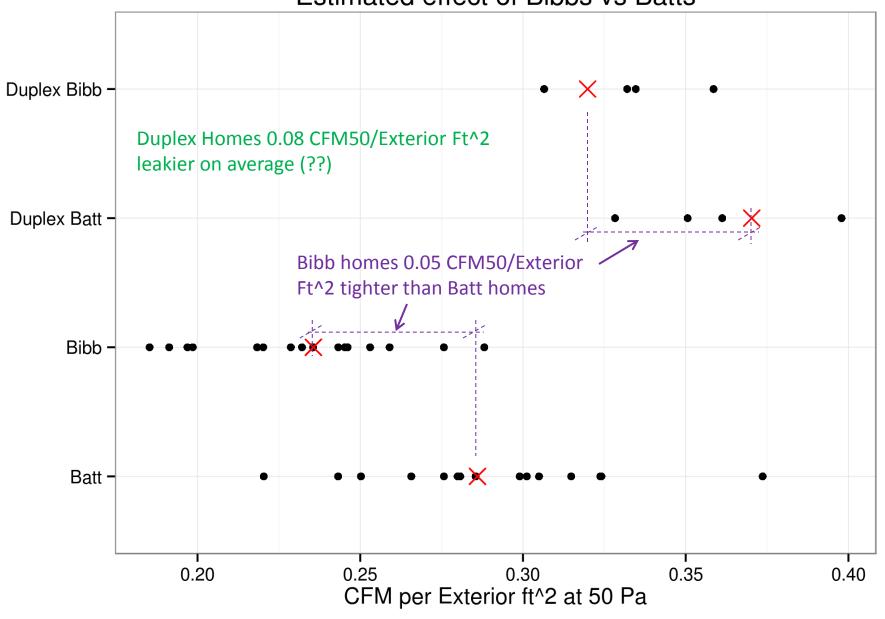




House Size Sq Ft



Estimated effect of Bibbs vs Batts



	Heating	RTF Home	Energy		Benefits, 30-Year	TRC Result, 30- Year	Benefits, 45-Year	TRC Result, 45- Year	Benefits,70	TRC Result, 70- Year
	Equipment	Model #	Savings	Cost	Life	Life	Life	Life	-Year Life	Life
	Gas furnace	1344	13.43 therms	\$500	\$118	0.24	\$124	0.25	\$148	0.30
`	vith AC 2	2200	24.79 therms		\$217	0.43	\$229	0.46	\$272	0.54
		2688	19.36 therms		\$170	0.34	\$179	0.36	\$213	0.43

NEBS To The Rescue?

"The BIBS homes are quieter, I can sell quite."

The builder