# Air Infiltration Sealing Strategy

Goal is to achieve less than 2.0 ACH50 blower test result

I have put down some measures I would like incorporated to achieve this goal based on my research, but need your expertise for methods to achieve this goal. The strategy is to put the most effort into creating an air barrier at the sheathing plane.

## Air Sealing Actions

Gasket Bottom Plate to Slab. Caulk interior bottom plate to floor also. Used Conservation Technology EPDM gasket. Insulation vendor caulked bottom plate, but their work was not great.

Seal Top Plate to Drywall at Attic, use combination of gaskets in vaulted areas and foam sealant in others – Used Denarco drywall gasket and Great Stuff Pro foam

Tape all drywall seams even unexposed (ie, master shower wall, behind cabinets)

Seal air leaks from Garage to living space, pay attention to sealing bottom of drywall to bottom plate and top of drywall. Need to use latex paint in garage as well as we are trying to create a drywall air barrier from the living space.

Top Plate to sheathing – Used Polyurethane Adhesive Loctite PL

Bottom Plate to sheathing Used PL here also

Tape house wrap seams Used primarily Huber ZIP tape, very good

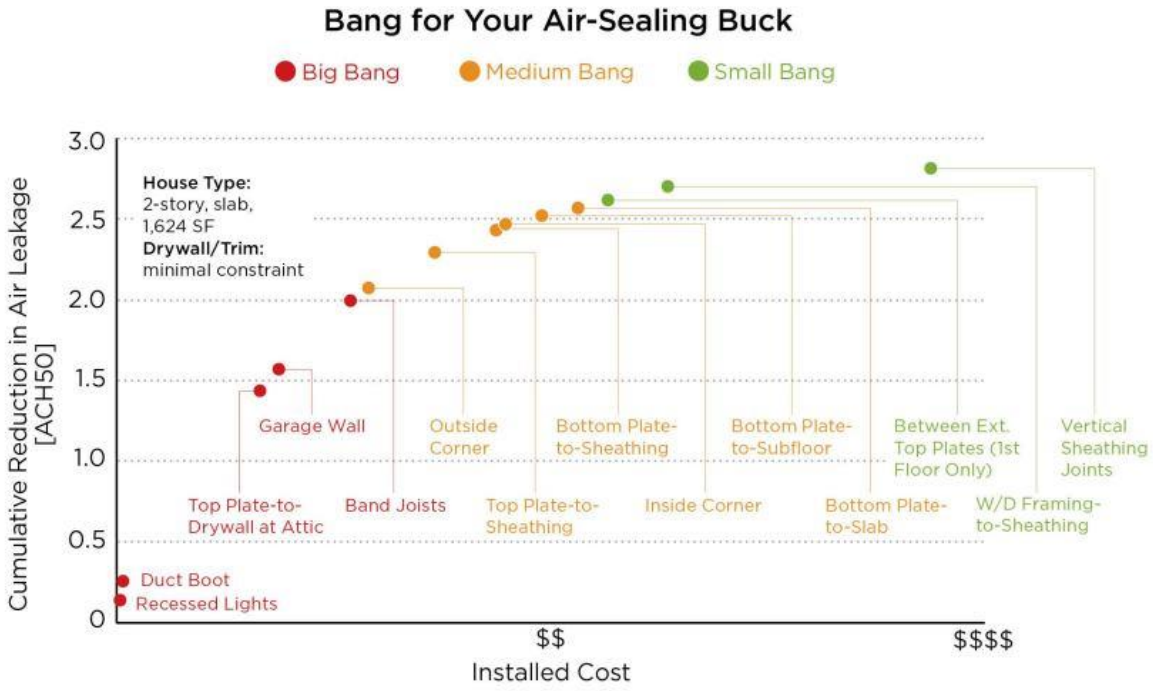
Seal all electrical and plumbing penetrations

Foam seal duct and exhaust fan penetrations

Surface mount LED lights to be used in place of can lights, to be sealed to be air tight per installation instructions. Used Halo SMD 6 inch surface mount LED lights. I really like the light they produce and used them extensively through the house. They install in junction boxes and I was able to completely foam seal them from the attic.

Tape window openings, foam seal window and doors – Insulation vendor used low expansion foam on windows and doors

Tape Plywood (or OSB) sheathing seams Used primarily Huber ZIP system tape. Very easy to install with a J roller.


Bang for Your Air-Sealing Buck
Big Bang
Medium Bang
Small Bang
House Type:
2-story, slab,
1,624 SF
Drywall/Trim:
minimal constraint
Cumulative Reduction in Air Leakage [ACH50]
3.0
2.5
2.0
1.5
1.0
0.5
0
Garage Wall
Outside Corner
Bottom Plate-to-Sheathing
Bottom Plate-to-Subfloor
Between Ext. Top Plates (1st Floor Only)
Vertical Sheathing Joints
Top Plate-to-Drywall at Attic
Band Joists
Top Plate-to-Sheathing
Inside Corner
Bottom Plate-to-Slab
W/D Framing-to-Sheathing
Duct Boot
Recessed Lights
$$
$$$$
Installed Cost