

Third Party Verification



- Energy Model / Hers Index < 85
- Pre-drywall Inspection
- Final Inspection
- Building Envelope leakage test
- Duct leakage test



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ENERGY STAR Qualified Homes Thermal Bypass Inspection Checklist

1. Overall Air Barrier and Thermal Barrier Alignment	<p>Requirements: Insulation shall be installed in full contact with sealed interior and exterior air barrier except for alternate to interior air barrier under item no. 2 (<i>Walls Adjoining Exterior Walls or Unconditioned Spaces</i>)</p> <p>All Climate Zones:</p>				
2. Walls Adjoining Exterior Walls or Unconditioned Spaces	<p>Requirements:</p> <ul style="list-style-type: none"> Fully insulated wall aligned with air barrier at both interior and exterior, OR Alternate for Climate Zones 1 thru 3, sealed exterior air barrier aligned with RESNET Grade 1 insulation fully supported 				
3. Floors between Conditioned and Exterior Spaces	<p>Requirements:</p> <ul style="list-style-type: none"> Air barrier is installed at any exposed fibrous insulation edges Insulation is installed to maintain permanent contact with sub-floor above including necessary supports (e.g., staves for blankets, netting for blown-in) Blanket insulation is verified to have no gaps, voids or compression. Blown-in insulation is verified to have proper density with firm packing 				
	3.1 Insulated Floor Above Garage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Attic/ Ceiling Interface	<p>Requirements:</p> <ul style="list-style-type: none"> All attic penetrations and dropped ceilings include a full interior air barrier aligned with insulation with any gaps fully sealed with caulk, foam or tape Movable insulation fits snugly in opening and air barrier is fully gasketed 				
	5.1 Attic Access Panel (fully gasketed and insulated)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	5.2 Attic Drop-down Stair (fully gasketed and insulated)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	5.3 Dropped Ceiling/Soffit (full air barrier aligned with insulation)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	5.4 Recessed Lighting Fixtures (ICAT labeled and sealed to drywall)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	5.5 Whole-house Fan (insulated cover gasketed to the opening)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Common Walls Between Dwelling Units	<p>Requirements: Gap between drywall shaft wall (i.e., common wall) and the structural framing between units is fully sealed at all exterior boundary conditions</p>				
	6.1 Common Wall Between Dwelling Units	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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INSULATION			
			1. Insulation in permanent contact w/subfloor over unconditioned space
			2. Fireplace chase exterior walls grade 1 or interior air barrier
			3. Blocking and baffles in vented attics
			4. Cards and rulers used per code for loose fill insulation
			5. Skylight shaft walls insulated with attic side air barrier
			6. No compressed batt under pull down stairs
INSULATION VALUE AND GRADE			
Component	Material	R-Value	Grade
Foundation Walls			N/A <input type="button" value="v"/>
Framed Floors			N/A <input type="button" value="v"/>
Cantilevered Floors			N/A <input type="button" value="v"/>
Exterior Walls			N/A <input type="button" value="v"/>
Band Joist			N/A <input type="button" value="v"/>
Flat Ceiling			N/A <input type="button" value="v"/>
Sloped Ceiling			N/A <input type="button" value="v"/>
Attic Kneewall			N/A <input type="button" value="v"/>
Kneewall Doors			N/A <input type="button" value="v"/>
Pull-Down Stairs			N/A <input type="button" value="v"/>
Scuttle Hole			N/A <input type="button" value="v"/>
			N/A <input type="button" value="v"/>
			N/A <input type="button" value="v"/>
INSULATION VALUE AND GRADE			
			21. Attic kneewall doors and scuttle holes weather stopped
			22. Attic kneewall has sealed attic side, rigid sheathing
			23. Joist Cavities under kneewalls blocked
			24. Stud cavities blocked at change in ceiling height
			25. Blocking and baffles installed in insulated, vaulted ceiling

WINDOWS				Windows	Doors	Skylights
U-Factor						
SHGC						
HEATING AND COOLING SYSTEMS						
Y	N	N/A	VF			
				1. Air Handler sized per Manual J (15% max oversize)		
				2. Indoor & Outdoor coils matched per ARI standards		
				3. A/H and ducts sealed with mastic or mastic tape		
				4. Solid connector on all flex to flex connections		
				5. Supply ducts fully ducted (no panned joist/stud cavities)		
				6. R-8 ducts in unconditioned space		
INDOOR AIR QUALITY						
				1. No unvented combustion fireplaces or space heaters		
				2. No air handler or supply air in garage		
				3. Combustion equipment sealed from conditioned space		
				4. Bathroom exhaust fans and dryers ducted to outside		
				5. Outside air intake with damper		
				6. Ducts in floor protected		
AIR HANDLER INFORMATION						
System 1		Location: BSMT <input type="checkbox"/> 1ST <input type="checkbox"/> 2ND <input type="checkbox"/> ATTIC <input type="checkbox"/>				
		Area Served: BSMT <input type="checkbox"/> 1ST <input type="checkbox"/> 2ND <input type="checkbox"/> 3RD <input type="checkbox"/>				
Air Handler Model #						
Indoor Coil Model #						
Outdoor Coil Model #						
AFUE: _____	HSPF: _____	SEER: _____				

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Here, a home energy rater is employing the blower door test to measure air leakage in the building envelope.



And here, a home energy rater is using the duct blaster test to measure the leakiness of ducts.

End Result

- Look for the label – located in the electrical breaker box of the



**YOU EITHER PASS OR
FAIL – NO POINTS**

Verified by:
Date:
Optional information:

This home has been independently verified through an EPA-approved sampling protocol to meet ENERGY STAR's strict guidelines for energy efficiency. Each ENERGY STAR qualified home can keep 4,500 lbs of greenhouse gases out of our air each year.

www.energystar.gov





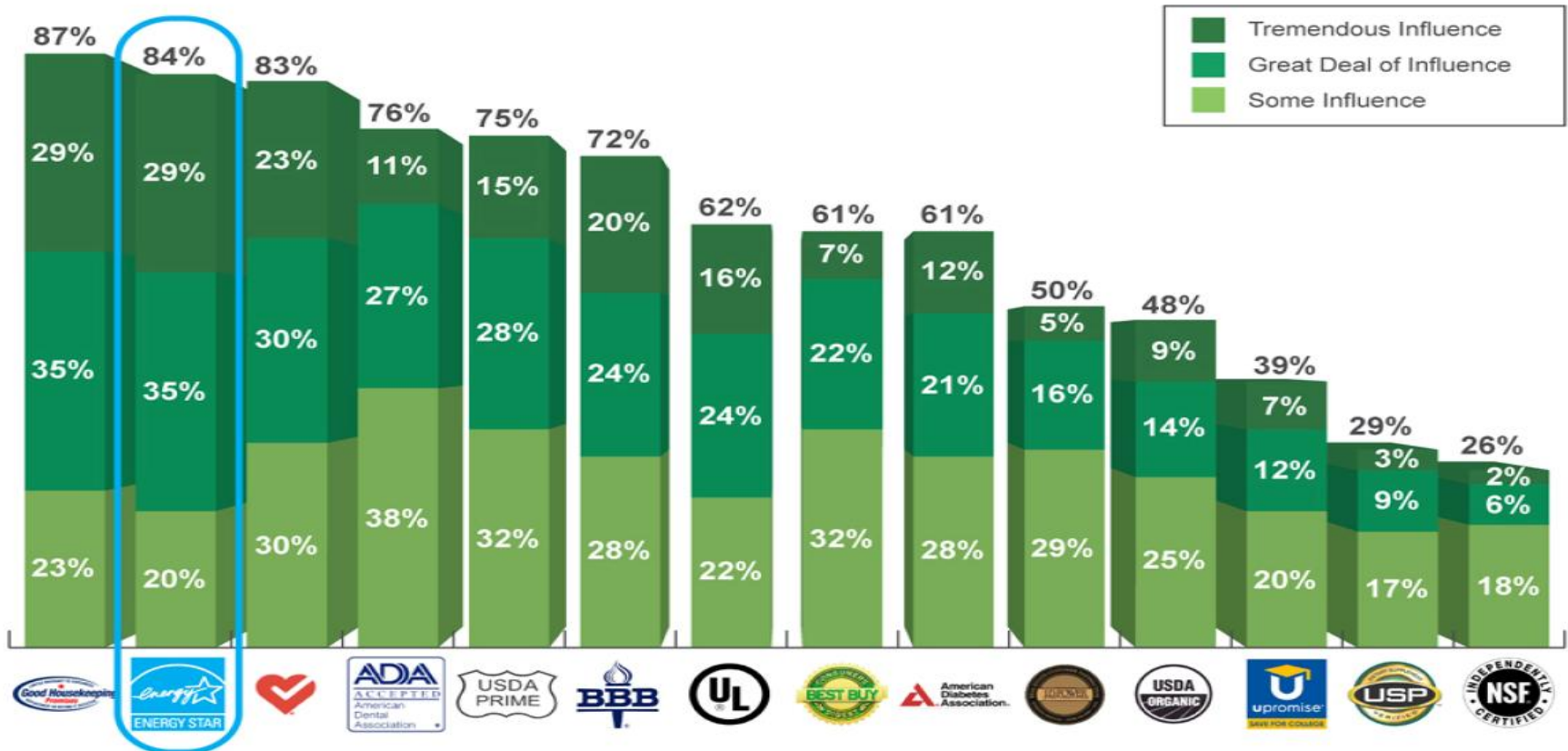
Third Party Certification

MIN REQUIREMENTS + POINT BASED PROGRAM

EARTHCR	MAX
EARTHCR	ed. Gold, (num)
SITE PLAN	4, 6, 8)
ENERGY E	, 90, 100)
RESOURCE	100, 110)
RESOURCE	2, 3, 4)
WASTE M	, 12, 16)
INDOOR A	3, 4, 6)
WATER C	, 25, 35)
HOME BUY	, 5, 10)
BUILDER C	1, 2, 4)
BONUS PO	2, 4, 6)
GRAND TOTAL	100 (min 150) 200, 230)



Other Benefits – Brand Advantage



Source: Fairfield Research, Summer 2007



The ENERGY STAR mark ranks among the highest level of influence on product purchase among all consumer emblems, similar in ranking to the *Good Housekeeping Seal*.



CONSUMERS' BENEFITS



Typical

+

Features

=

Additional Benefits

Price

Effective Insulation

Quieter

Location

Facade

Floor F

Amenities

Increase Client Loyalty

Repeat Sales

+ Referrals

Stable

Pests

or Air

Higher Quality

Less Maintenance...



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Thank You !!!

Welcome for Green Home Tour

[Access to videos](#)

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