

FRAMING CHECKLIST

Builder/Developer:			
Site Super:		Phone:	
Framer Company:		Phone:	
HVAC Contractor:		Phone:	
House Address:			
City/State/Zip:		Plan Name:	

Framing Checklist Requesting Field Inspection by Rater? Yes: No:

		YES	NO	N/A	Q/A
FOUNDATION					
SLAB	1. A vapor retarder with 100% coverage and overlapped seams is installed under all slabs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	2. Slabs built in Climate Zones 4 and 5 are insulated to at least R-10. (vertical slab edge insulation)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	3. Crawl spaces are graded to a low point and have a sump pump or drain to daylight roughed in.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CRAWL	4. Crawl spaces have at least one of the following during the framing inspection: <ul style="list-style-type: none"> Crawl space vents that will be sealed when construction is complete. A vapor retarder covering the ground. 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FRAMING					
	5. Roof framing allows for 10" of vertical space from the exterior edge of the top plate to roof sheathing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	6. Attic platforms are raised to a height that allows for the installation of the same insulation R-value used elsewhere in the attic.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	7. If continuous rigid insulation is not used, all exterior wall studs are 2×6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	8. Transfer grills, jumper ducts, or individual room returns are roughed in.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AIR SEALING					
	9. Sill seal and/or caulk has been used to air seal bottom plates of exterior to the subfloor.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	10. All penetrations and cracks in the building shell are air sealed with foam, mastic or caulk. <i>This includes, but is not limited to: holes for MEP, bands between floors, beam pockets, bottom plate to sheathing, top plate to sheathing.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

FRAMING CHECKLIST

	YES	NO	N/A	Q/A
11. Rigid air barrier is installed and air sealed at all chases, behind all tubs and showers, and on the attic side of all knee walls.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER				
12. All recessed lights are insulation contact (IC) rated and airtight.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. All bath fans are rated to exhaust at least 70 CFM and point in the direction of the termination location.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Request AHRI Certificate and ACCA Manual J room-by-room load calculation and confirm mechanical systems will be sized to within 6,000 Btuh (or closest available size) of whole home total load.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments and Corrective Work Order Items:

BUILDER CERTIFICATION

Name:	
Company:	
Signature:	
Date:	

RATER CERTIFICATION

Name:	
Company:	
Signature:	
Date:	

INSULATION CHECKLIST

Builder/Developer:			
Site Super:		Phone:	
House Address:			
City/State/Zip:		Plan Name:	
Rater:		Phone:	
Insulation contractor:		Phone:	

					YES	NO	N/A	Q/A	
Insulation levels meet or exceed those in the following table:									
	CLIMATE ZONE	WALLS	CEILING	FLOORS	CRAWLSPACE WALLS				
1.	Zone 3	R-19 or R-15 + 3 cont.	R-38	R-19	R-5 cont.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Zone 4	R-19 or R-15 + 3 cont.	R-49	R-19	R-10 cont.				
	Zone 5	R-21 or R-15 + 5 cont.	R-49	R-30	R-15 cont.				
or have documentation that envelope meets 2015 IECC total UA Alternative.									
2.	Insulation is installed to manufacturer's specifications, with no gaps, voids, compression, misalignment, or wind intrusion.				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.	All insulated walls (including knee walls, walls behind tubs, walls under stairs, and framed walls in crawl spaces) are framed with six rigid, air-tight sides.				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.	Wind baffles are installed along the perimeter of attic insulation, including vaulted and cathedral ceilings, and allow at least 8 in. of insulation to be installed over top plate.				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.	Sill seal is installed on the vertical face of all interior and exterior wall top plates. <i>Exception: builder may use caulk, foam, or mastic to seal top plates to drywall from the attic side after drywall is installed.</i>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.	Windows and doors have backer-rod, caulk, or foam between the frame and rough opening.				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.	UL listed bucket mastic has been used to seal all connections (flex, collars, plenums, boots, and boxes) in the duct system (<i>total duct leakage must be less than 3%</i>).				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8.	Metal seams have been sealed with bucket mastic.				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9.	Rigid metal splicing collars have been used at all flex duct splices and have been sealed with bucket mastic.				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10.	Fresh air ventilation is filtered. The filter will be easily accessible.				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
11.	Dampers have been installed in all supply ducts and bedroom return ducts.				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

INSULATION CHECKLIST

	YES	NO	N/A	Q/A
12. Ventilation ducts do not have turns or bends greater than 90°.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Ventilation ducts terminate beyond the exterior skin of the home.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. All ventilation ducts, excluding kitchen exhaust ducts, are insulated.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Transfer grills, jumper ducts, or individual room returns are installed for pressure balancing in all bedrooms.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments and Corrective Work Order Items:

BUILDER CERTIFICATION

Name:	
Company:	
Signature:	
Date:	

RATER CERTIFICATION

Name:	
Company:	
Signature:	
Date:	

FINAL CHECKLIST

Builder/Developer:			
Site Super:		Phone:	
House Address:			
City/State/Zip:		Plan Name:	
Rater:		Phone:	

						YES	NO	N/A	Q/A
1.	All penetrations in ceiling drywall (for lighting, ceiling fans, bath fans, etc.) are sealed with caulk or foam.					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	Attic hatches are weather stripped and have at least R-30 insulation attached. This will require an insulated, air sealed and weather stripped box to be constructed for attic pull-down stairs.					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	Electric water heaters have an energy factor (EF) of at least 0.94. Gas water heaters have an EF of at least 0.61.					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	The first three feet of hot and cold pipes from the water heater are insulated to at least R-4.					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plumbing fixtures do not exceed the maximum flow rates listed in the following table:									
5.	FIXTURE	TOILETS (dual-flush models)	SHOWER-HEADS	KITCHEN FAUCETS	BATHROOM FAUCETS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Flow Rate	1.3 GPF (1.1 & 1.6 GPF)	2.25 GPM	2.2 GPM	1.5 GPM				
6.	Dishwashers and refrigerators, if provided by the builder, are ENERGY STAR® rated.					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	No incandescent lights have been installed in the home.					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.	All kitchens have a fan vented to the outside and exhaust 100 CFM.					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	All baths have fans vented to outside and exhaust 50 CFM.					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

FINAL CHECKLIST

		YES	NO	N/A	Q/A
CRAWL	<p>Crawl space foundation</p> <ul style="list-style-type: none"> A sump pump or drain to daylight with a backflow preventer is located at the low point of the crawl space. All penetrations in crawl space walls are sealed with caulk or foam. Vapor barrier is sealed, mechanically fastened to walls (not taped), and extends up all walls and piers to within 3" of the mudsill or floor joist. 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	10. Vapor barrier completely covers the ground and is sealed to the wall vapor barrier and also at all seams and penetrations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<ul style="list-style-type: none"> There is either a standalone dehumidifier or a supply register with a backflow preventer that provides at least 1 CFM per 30 ft² of floor area The crawl space access door is weather stripped and insulated to the same value as the crawl space wall. 				
	11. AHRI and load calculation are submitted to rater or are attached to air handing unit.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	12. HVAC checklist has been reviewed with HVAC contractor or completed by HVAC contractor.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GAS	<p>Combustion devices or an attached garage:</p> <ul style="list-style-type: none"> All combustion devices inside the conditioned space, other than gas ranges and wood fireplaces, are direct vent or power-vented. 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	13. One hard-wired carbon monoxide (CO) detector is installed per 1,000 ft ² of living space, with a minimum of one per floor.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	14. Caulk or mastic has been used to seal all supply boots, return boxes, and bath fans to their rough openings.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	15. Heat pumps have an outdoor thermostat installed that prevents auxiliary heater operation when temperature is above 35°F.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

FINAL CHECKLIST

Airtightness and Pressurization

House Airtightness: CFM50

Duct Airtightness: CFM25

Pressure Balanced:

Window Structure:

U-Value:

SHGC Vaule:

Ventilation Flows

Kitchen: CFM

Bath 1: CFM

Bath 2: CFM

Bath 3: CFM

Outside Air Flow: CFM

Mechanicals and Appliances

AHU/Indoor Coil

Make:

AHU Model #:

Water Heater

Make:

Model:

Location:

Efficiency: EF

AC/Outdoor Coil

Make:

Model:

Ductwork

Location:

R-Value:

Outdoor thermostat setting (this applies to heat pump systems only)

- This house has no incandescent light bulbs.
- If provided by the builder, the dishwasher and refrigerator are ENERGY STAR® appliances.

For RNC Program Houses (optional):

- Request AHRI certificate (need actual SEER and hspf).
- Type of exterior lighting (e.g., LED, CFL). _____
- Refrigerator efficiency (take picture of model number).
- Actual window values: SHGC _____ U-value _____
- Actual insulation values: Walls _____ Ceiling _____ Floors _____
- Radiant barrier: Yes or No _____

FINAL CHECKLIST

Comments and Corrective Work Order Items:

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BUILDER CERTIFICATION

Name:	
Company:	
Signature:	
Date:	

RATER CERTIFICATION

Name:	
Company:	
Signature:	
Date:	

HVAC: DESIGN CHECKLIST

HVAC Contactor:			
HVAC Contact:		Phone:	
House Address:			
City/State/Zip:		Plan Name:	
Rater:		Phone:	

	YES	NO	N/A	Q/A
DESIGN				
HVAC equipment meets or exceeds the following minimum efficiencies: 1. • Heat pumps: 14 SEER, 8.2 HSPF. • Furnaces with A/C: 90% efficient, 14 SEER.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. An ACCA Manual J room-by-room load calculation, including all inputs, is submitted to Advanced Energy systemvision@advancedenergy.org prior to installation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Mechanical systems are sized to within 6,000 Btuh (or closest available size) of the whole home ACCA Manual J total load. <i>Note: If multiple systems are to be installed, minisplits will be necessary.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. A filtered whole-house mechanical fresh air ventilation system capable of meeting the current version of ASHRAE 62.2 is installed that complies with one of the following options: • OPTION 1: Supply Ventilation - Air handler cannot have a PSC motor. System shall be designed to operate intermittently and automatically based on a timer (e.g., air cyclor) and to restrict outdoor air intake when not in use (e.g., motorized damper). Ventilation at a minimum shall occur 10% of every 24 hours. • OPTION 2: Balanced Ventilation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

HVAC CERTIFICATION

Name:	
Company:	
Signature:	
Date:	

RATER CERTIFICATION

Name:	
Company:	
Signature:	
Date:	

HVAC: ROUGH-IN CHECKLIST

HVAC Contactor:			
HVAC Contact:		Phone:	
House Address:			
City/State/Zip:		Plan Name:	
Rater:		Phone:	

	YES	NO	N/A	Q/A
ROUGH-IN				
1. UL listed bucket mastic has been used to seal all connections (flex, collars, plenums, boots, and boxes) in the duct system <i>(total duct leakage must be less than 3%).</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Metal seams have been sealed with bucket mastic.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Rigid metal splicing collars have been used at all flex duct splices and have been sealed with bucket mastic.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Fresh air ventilation is filtered. The filter will be easily accessible.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Dampers have been installed in all supply ducts and bedroom return ducts.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Ventilation ducts do not have turns or bends greater than 90°.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Ventilation ducts terminate beyond the exterior skin of the home.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. All ventilation ducts, excluding kitchen exhaust ducts, are insulated.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Transfer grills, jumper ducts, or individual room returns are installed for pressure balancing in all bedrooms.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

HVAC CERTIFICATION

Name:	
Company:	
Signature:	
Date:	

RATER CERTIFICATION

Name:	
Company:	
Signature:	
Date:	

HVAC: FINAL CHECKLIST

HVAC Contactor:			
HVAC Contact:		Phone:	
House Address:			
City/State/Zip:		Plan Name:	
Rater:		Phone:	

	YES	NO	N/A	Q/A
FINAL				
1. Caulk or mastic has been used to seal all supply boots, return boxes, and bath fans to their rough openings.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Heat pumps have an outdoor thermostat installed that prevents auxiliary heater operation when temperature is above 35°F.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Total system airflow is set between 300-400 CFM per ton of cooling capacity, or set to total system airflow as specified by the manufacturer.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Airflow for each room is within 20% or 25 CFM of the ACCA Manual J calculation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Physical copy of the room-by-room ACCA Manual J and matching AHRI certificate is attached to AHU or submitted to builder before the final inspection.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

HVAC CERTIFICATION

Name:	
Company:	
Signature:	
Date:	

RATER CERTIFICATION

Name:	
Company:	
Signature:	
Date:	