



New Home Application



Builder \_\_\_\_\_ Account # \_\_\_\_\_

Mailing Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_ Phone \_\_\_\_\_

Homeowner \_\_\_\_\_ Account # \_\_\_\_\_

Mailing Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_ Phone \_\_\_\_\_

Touchstone Energy Home: Type:  Single Family  Multi Family

Address \_\_\_\_\_ Size \_\_\_\_\_ sq. ft.

Required Documentation: (Tobesuppliedbybuilder)

Received Approved

- Air Barrier & Insulation Inspection
- Building Tightness Test (if required)
- NFRC Window Label
- AHRI Certificates
- Manual J Load Calculation
- HVAC Contractor \_\_\_\_\_ Phone \_\_\_\_\_  
S.C. Mechanical Contractor license # \_\_\_\_\_

As the builder of the home mentioned above, I certify that it complies with or exceeds the energy efficiency standards of Palmetto Electric Cooperative's Touchstone Energy Home program. I understand that I must supply all required documentation and notify the co-op for inspections in order to qualify. Please send all program incentives to the:  BUILDER  HOMEOWNER

Builder \_\_\_\_\_ Date \_\_\_\_\_

Homeowner \_\_\_\_\_ Date \_\_\_\_\_

OFFICE USE ONLY

Location# \_\_\_\_\_ Meter# \_\_\_\_\_

Application \_\_\_\_\_ Date \_\_\_\_\_ Re-inspect \_\_\_\_\_ Code Rec'd \_\_\_\_\_ Rec'd \_\_\_\_\_

Mechanical \_\_\_\_\_ Date \_\_\_\_\_ Re-inspect \_\_\_\_\_ Mkt Rec'd \_\_\_\_\_ Acc Rec'd \_\_\_\_\_

Certified by \_\_\_\_\_ Date \_\_\_\_\_ Pay incentive to: Homeowner or Builder Rebate \$ \_\_\_\_\_

<b>Thermal Envelope</b>	<b>Attic Insulation (minimum)</b>	R-38 above ceiling. R-30 in roof /ceiling combo.
	<b>Wall Insulation (minimum)</b>	R-13 (full cavity fill is required.)
	<b>Knee Walls (minimum)</b>	R-13 Air barrier is required. Rigid foam board insulation recommended for creating air barrier.
	<b>Floor Insulation (minimum)</b>	R-19 in floors over unconditioned garage, open crawlspace or cantilevered floors. Air barrier is required. Insulation is installed to maintain permanent contact with underside of subfloor decking
	<b>Crawlspace Wall (minimum)</b>	R-5 for conditioned crawlspaces with zero ventilation and a soil cover vapor retarder is in place.
	<b>Window U-Factor / SHGC (maximum)</b>	U-Factor 0.50 SHGC 0.30 Total glass to floor area ratio not to exceed 20%.
	<b>Doors</b>	Metal, Vinyl, or Fiberglass (glass-fiber reinforced plastic) insulated (exception for one door)
<b>Air Leakage Controls</b>	<b>Sealing Air Leakage</b>	The building thermal envelope shall be durably sealed to limit infiltration. All joints, seams and penetrations in the following areas must be effectively air sealed with an appropriate air barrier material such as dry wall, wood, spray foam, caulk, mastic, etc.: exterior wall sill plate; window and door rough openings; skylights shafts; openings between window and door assemblies; access doors, pull-down stairs, and hatches into attic; all plumbing and wiring penetrations; all recessed lighting fixtures; dropped ceilings; duct, fireplace, and other chases; knee walls and joist cavities below knee walls; walls and ceilings separating a garage or unconditioned spaces; behind tubs and showers on exterior walls; common walls between dwellings; and all air registers, vents and returns.
	<b>Visual Inspection Option</b>	Building envelope tightness and insulation shall be considered acceptable when all items listed on the AIR BARRIER AND INSULATION INSPECTION checklist are field-verified during a rough-in inspection. An approved party, independent from the installer, shall inspect the air barrier and insulation.
	<b>Testing Option</b>	As an alternate to the visual inspection or duct test, the building envelope tightness can be considered acceptable when tested air leakage is less than seven air changes per hour when tested with a blower door at a pressure of 50 Pa. Testing shall occur after sheetrock and installation of penetrations including windows and doors, utilities, plumbing, electrical, ventilation and combustion appliances.
<b>Mechanical Systems</b>	<b>Heating and Cooling</b>	Electric Heat Pump is required. Air Source: $\geq$ SEER 14; HSPF $\geq$ 8.2. Ground Source: $\geq$ EER 12; COP 3.3. Dual Fuel Heat Pump is allowed. All equipment must be matched and certified by AHRI and installed by a S.C. licensed mechanical contractor. At least one programmable thermostat is required. Auxiliary electric resistance heaters or gas furnace (for Dual Fuel) can only operate when the outdoor temperature is below 38 degrees and the load cannot be met by the heat pump or during the heat pump defrost cycle. In-line dehumidifiers are not allowed.
	<b>Heat Pump Sizing</b>	ACCA Manual J & S standards or other approved methods must be used to size the equipment.
	<b>Duct System</b>	Duct system must be designed, built, and sealed according to ACCA Manual D, ADC and other industry standards. All seams, joints, and fittings of ducts, register boots and air handlers must be sealed with the UL 181 mastic and mesh or tape. Duct design and air flow performance documentation must be provided, or all branch ducts must be equipped with a hand damper for balancing. Building cavities cannot be used as part of the duct system unless they are insulated and sealed. All ducts and air handlers should be within the thermal envelope with R-6 or greater duct insulation. If ducts are outside the envelope, then R-8 is required, and a duct leakage test must be performed at by an approved BPI or equivalent party. <i>Rough-in test: Total leakage for each system with the air handler installed shall be less than or equal to 6 CFM per 100 ft<sup>2</sup> of conditioned floor area assigned to that system when tested at a pressure of 25 Pa across the system. All register boots shall be taped or otherwise sealed during testing.</i>
	<b>Water Heater</b>	Electric 50 gallon or larger with an energy factor $\geq$ 0.90. If an off-peak water heating program is available, participation is required. All hot water piping shall be insulated to at least R-3. Heat pump water heaters or heat recovery are allowed. Neither instantaneous (also known as tankless) water heaters nor circulating hot water piping loops are allowed.
	<b>Ventilation</b>	In an unconditioned attic only natural ventilation by means of ridge, soffit or gable vents shall be used; power ventilators are prohibited. All interior exhaust fans must be vented outside, not into an attic or crawlspace, and shall have automatic dampers that close when the system is not operating. When the air tightness of the house is below the Building Airflow Standard (ASHRAE ventilation standard 62.2), mechanical ventilation should be installed.
	<b>Appliances</b>	Electric Energy Star <sup>®</sup> appliances are recommended. Pool pumps must be controlled by a timer.
	<b>Lighting</b>	All recessed fixtures must be IC-Rated and sealed airtight to drywall with a gasket, caulk, or foam. At least 50% of light fixtures are required to be fluorescent, compact fluorescent, or LED.
	<b>Fireplace</b>	Wood-burning fireplace should include outside combustion air duct and doors with gaskets. Unvented fireplaces are not allowed.
	<b>Soil Covers</b>	In all crawl spaces or basements exposed soil must be covered with a 6-mil vapor barrier taped at all seams with $\geq$ 6" overlaps.