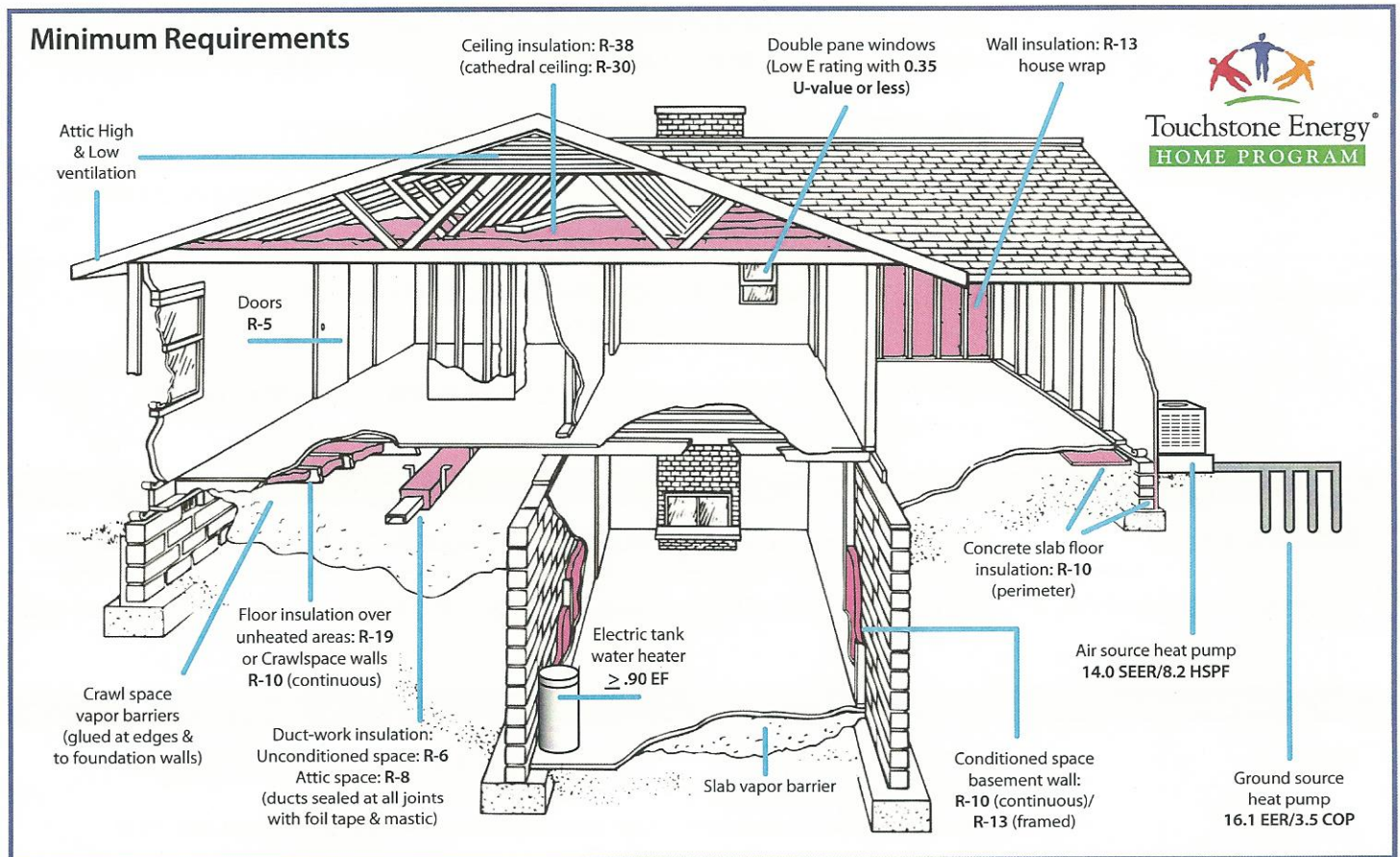


# Touchstone Energy Home

The Touchstone Energy Home standards are designed to provide homeowners superior comfort and energy savings. Following these guidelines and working closely with your local energy advisor will help you achieve the most out of your new home.

## PROGRAM PROCESS:

- 1) Contact your local Cooperative Energy Advisor
- 2) Pre-drywall inspection (complete thermal bypass checklist)
- 3) Final inspection and testing



## INSULATION

ATTIC	R-38
VAULTED CEILINGS	R-30 (MAXIMUM 500 ft <sup>2</sup> OF TOTAL CEILING AREA)
KNEE WALLS	R-13 W/ A FULLY SEALED AIR BARRIER INSTALLED ON THE ATTIC SIDE OF THE WALL
EXTERIOR WALL	R-13
BASEMENT WALL	R-10 (CONTINUOUS)/ R-13 (FRAMED CAVITY)
FLOOR	R-19 (CRAWLSPACE FLOOR MUST BE COVERED WITH 6 MIL VAPOR BARRIER AND MUST BE GLUED TO THE FOUNDATION WALLS AND GLUED AT THE OVERLAPS)
SLAB	R-10 (2 FEET VERTICAL)
CRAWLSPACE WALLS	R-10 (CONTINUOUS)/ R-13 (FRAMED CAVITY)

DUCTS	SUPPLY DUCTS IN ATTICS SHALL BE INSULATED TO A MINIMUM OF R-8 ALL OTHER DUCTS SHALL BE INSULATED TO A MINIMUM OF R-6
WINDOWS	U-VALUE <.35 (MAXIMUM 18% OF WALL SQUARE FOOTAGE)

### AIR SEALING

BLOWER DOOR TEST @50 PASCALS	FINAL AIR LEAKAGE MUST BE TESTED TO BE LESS THAN 7 ACH (AIR CHANGES PER HOUR)
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DUCT LEAKAGE	<p>JOINTS AND SEAMS OF DUCT SYSTEMS SHALL BE MADE SUBSTANTIALLY AIRTIGHT BY MEANS OF FOIL TAPE THEN A LAYER OF MASTIC, OR MASTIC TAPE</p> <ul style="list-style-type: none"> <li>LEAKAGE TO OUTDOORS <math>\leq</math> 10% OF THE FAN'S RATED CAPACITY</li> </ul> <p><i>EXCEPTIONS: DUCT TIGHTNESS TEST IS NOT REQUIRED IF THE AIR HANDLER AND ALL DUCTS ARE LOCATED WITHIN CONDITIONED SPACE.</i></p>
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RECESSED LIGHTING	<p>RECESSED LIGHTING FIXTURES BORDERING UNCONDITIONED SPACE MUST BE ICAT (INSULATION CONTACT AIR TIGHT) RATED</p> <p><i>(NOTE: THE JOINT BETWEEN THE EDGE OF THE ICAT FIXTURE AND THE SHEETROCK MUST BE SEALED WITH CAULKING)</i></p>
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### VENTILATION

ATTIC VENTILATION	MINIMUM ATTIC VENTILATION SHOULD BE ONE SQUARE FOOT PER 150 ft <sup>2</sup> CEILING AREA
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MECHANICAL VENTILATION	WHOLE HOUSE MECHANICAL VENTILATION RECOMMENDED ACCORDING TO ASHRAE 62.2
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### MECHANICAL EQUIPMENT

HVAC	AIR SOURCE HEAT PUMPS	14.0 SEER/ 8.2 HSPF
	GROUND SOURCE HEAT PUMP	16.1 EER/ 3.5 COP
<i>*Enroll in your local Cooperative's Simple Saver program for air conditioners to save even more!</i>		
<i>*Please contact your Co-op Energy Advisor for more details</i>		

WATER HEATING	<p>ELECTRIC STORAGE TANK WATER HEATER (REQUIRED)</p> <p>ENERGY FACTOR RATING <math>\geq</math> .90</p> <p>(HOT WATER CIRCULATING SYSTEMS ARE PROHIBITED)</p> <p>(INSTANTANEOUS WATER HEATERS PROHIBITED)</p> <p><i>*Enroll in your local Cooperative's Simple Saver program for water heaters to save even more!</i></p>
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### PERFORMANCE PATH OPTION

A HOME THAT RECEIVES A HERS RATING OF  $\leq$ 85, PASSES THE THERMAL BYPASS CHECKLIST, THE FINAL INSPECTION AND THE 2009 IECC PERFORMANCE PATH MAY QUALIFY AS A TOUCHSTONE ENERGY HOME. CHECK WITH YOUR LOCAL COOPERATIVE ENERGY ADVISOR TO VERIFY COMPLIANCE. (INCENTIVE MAY VARY)

*\*Electric Tank Storage Water Heater Required (Energy Factor Rating of  $\geq$ .90)*

*\*Primary source of heat must be an Air Source Heat Pump or Geothermal*

