

# DIVERSE POWER 'S TOUCHSTONE ENERGY NEW HOME PROGRAM

Cust Name

Cust Addr

Member #



## TOUCHSTONE ENERGY HOME CHECKLIST

	REQUIRED	OPTION	POINTS
<b>THERMAL - 20 pts</b>			
• R-38 Insulation above ceilings	X		
• R-19 Insulation in Roof/Ceiling. (cathedral or vault)/Attic/Exposed Knee Walls	X		
• R-16 Total Wall Insulation (Batt plus sheathing)	X		
• R-19 Insulation under floor (cantilevered floors must have R-30)	X		
• Continuous Insulation $\geq$ R-13 for all exterior walls			3
• Insulate roof line w/spray foam			3
<b>TOTAL POINTS</b>	<b>20</b>		
<b>INFILTRATION CONTROLS - 15 pts</b>			
• Seal all penetrations in the exterior envelope	X		
• Sill plates must be sealed with an appropriate sealant	X		
• Doors, windows, and attic hatches installed in an air tight fashion	X		
• Exterior finish walls must fit tight against the sill plate	X		
• Properly installed faced insulation batts or unfaced batts with a complete polyethylene vapor barrier, or a polyurethane spray foam insulation is required	X		
• Zero Clearance can lights. ICAT - direct insulated lights.	X		
• Crawl space shall be covered with polyethylene ground cover ( 6 - 10 mil) to prevent moisture migration into the house.	x		
• A blower door test is required for infiltration conducted by a certified Duct & Envelope Tightness verifier (DET). The result must be less than or equal to 6 air changes per hour at 50 Pascals (ACH50).	X		
• Result less than or equal to 5 air changes per hour			1
• Result less than or equal to 4 air changes per hour			3
• Attic access outside of building envelope			1
<b>TOTAL POINTS</b>	<b>15</b>		
<b>Doors - 5 pts</b>			
• All opaque exterior doors shall be weather-stripped on all sides and of solid construction. Metal doors with a urethane core, thermal break, and gasketed weather stripping are recommended	X		
• All glass doors shall be double-glazed with a thermal break. (one entry door may be exempt)	X		
<b>TOTAL POINTS</b>	<b>5</b>		

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	REQUIRED	OPTION	POINTS
<b>Windows - 5 pts</b>			
• Double-glazed, low E-glass with a SHGC (Solar Heat Gain coefficient) $\leq$ .35	<b>x</b>		
• SHGC $\leq$ .30			1
• SHGC $\leq$ .25			2
<b>TOTAL POINTS</b>		<b>5</b>	
<b>Ventilation - 5 pts</b>			
• Minimum attic ventilation should be one square foot of net free area for each 150 square feet of attic area. The recommended method is a combination of continuous ridge and soffit vents. <b>If using a spray polyurethane foam and insulating at the roof plane, no venting is required. Check with your local code office for conformity.</b>	<b>x</b>		
• Bathroom exhaust, kitchen exhaust, and clothes dryers shall be vented to the outside, not to the attic or crawl space.	<b>X</b>		
• Crawl space ventilation shall be provided as required by local code.	<b>X</b>		
<b>TOTAL POINTS</b>		<b>5</b>	
<b>Heat Pump - 20 pts</b>			
• 15.0 SEER (ARI rated) is the minimum efficiency allowed under this program. All heat pumps should be sized with a Manual J based load calculation.	<b>x</b>		
• $\geq$ 16.0 SEER			2
• $\geq$ 18.0 SEER			4
• Ground source heat pump $\geq$ 17 EER			8
• One system serving multiple zones w/dampers			3
• Programmable thermostats with adaptive recovery	<b>X</b>		
<b>TOTAL POINTS</b>		<b>20</b>	
<b>Duct Systems - 15 pts</b>			
• Duct system shall be built to industry accepted standards (Manual D).	<b>X</b>		
• Ducts must be sealed according to state and local codes.	<b>X</b>		
• Ducts in unconditioned attic with attic side radiant barrier			2
• Ducts in conditioned space			4
• Ducts must pass post construction leakage test to outdoors PCO $\leq$ 8 cfm/100 sq ft, or leakage PCT $\leq$ 12 cfm/100 sq ft, or rough-in test RIT $\leq$ 6 cfm/100	<b>X</b>		
• PCO $<$ 7 PCT $<$ 8 or RIT $<$ 5 cfm/100 sq ft			1
• PCO $<$ 6 PCT $<$ 7 or RIT $<$ 4 cfm/100 sq ft			2
<b>TOTAL POINTS</b>		<b>15</b>	

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	REQUIRED	OPTION	POINTS
<b>Water Heating - 10 pts</b>			
• An electric Marathon® water heater at least 40 gallons.	<b>x</b>		
• Electric Heat Pump water heater			3
• Solar water heater			4
<b>TOTAL POINTS</b>		<b>10</b>	
<b>CFL's - 5 pts</b>			
• Install 200 watts of Compact Fluorescent lighting	<b>x</b>		
• Install 400 watts of CFL's			1
• Install 600 watts of CFL's			2
<b>TOTAL POINTS</b>		<b>5</b>	
<b>TOTAL TOUCHSTONE ENERGY HOME SCORE</b>			<b>100</b>

