



**Corridor Energy**  
Cooperative

## Residential Self Assessment

### Structure Information

Year of Home:	Square Footage:					
Additional Structures:	Yes	No	Are They Heated/Cooled:	Yes	No	
Garage:	Attached	Detached	None			
Exterior Wall Construction:	2 x 4	2 x 6	Other			
Exterior Wall Material:	Wood	Vinyl	Steel	Composite/Masonite	Brick	Stucco Aluminum
Attic Insulation Type:	Cellulose	Fiberglass	Mineral Wool	Batting	Spray Foam	
Attic Insulation Depth:	(in inches)					
Foundation:	Basement	Basement w/Crawlspace	Basement w/Slab	Slab only		
	Crawlspace only	Crawlspace & Slab				
Foundation Insulated:	Yes	No	Unknown			

### Windows / Doors

Number of Windows:	Age of Windows:					
Window Glass Type:	Single Pane Only	Single Pane w/Storm Windows	Double Pane			
	Double Pane Low E	Triple Pane				
Window Frame Material:	Vinyl	Wood	Aluminum/Metal			
Window Style:	Single Hung	Double Hung	Casement	Sliding	Awning/Hopper	
Number of Exterior Doors:	Storm Doors: On All On Some None					
Exterior Door Material:	Fiberglass	Steel	Wood			
Door Seal:	No Visible Daylight	Some Visible Daylight	Worn/Needs Replacing			

### Heating / Cooling

Primary Heating System:      Geothermal      Air-Source Heat Pump      Hybrid Air-Source Heat Pump  
Electric Furnace      Electric Baseboard      Electric Boiler      Mini-Splits  
Natural Gas/Propane Furnace      Natural Gas/Propane Boiler

Age of Heating System: \_\_\_\_\_ System Maintenance:      Annually      Every 6 Months  
Never

Secondary Heating System: \_\_\_\_\_

Cooling System:      Geothermal      Air-Source Heat Pump      Central Air Conditioner  
Mini-Splits      Window/In-Wall Air Conditioner      None

Age of Cooling System: \_\_\_\_\_ System Maintenance:      Annually      Every 6 Months  
Never

Seconday Cooling System: \_\_\_\_\_

Thermostat Type:      Manual      Programmable      Smart/WiFi

Thermostat Settings:      Heating: \_\_\_\_\_      Cooling: \_\_\_\_\_

Do You Set Back Your Thermostat at Night or When Away:      Yes      No

Water Heater Type:      Electric Storage      Electric Tankless      Hybrid Heat Pump  
Geothermal Assisted Storage      Natural Gas/Propane Storage  
Natural Gas/Propane Tankless

Number of Water Heaters: \_\_\_\_\_ Temperature Setting: \_\_\_\_\_

Age of Water Heater: \_\_\_\_\_

### Appliances / Electrical Equipment

Number of Refrigerators: \_\_\_\_\_ Refrigerator Age: \_\_\_\_\_

Number of Freezers (stand alone): \_\_\_\_\_ Freezer Age: \_\_\_\_\_

Dishwasher:      Yes      No      Microwave:      Yes      No

Stove:      Electric      Natural Gas      Propane      Induction      Age: \_\_\_\_\_

Clothes Washer Age: \_\_\_\_\_ Clothes Dryer Age: \_\_\_\_\_

Clothes Dryer Type:      Electric    Natural Gas    Propane    Heat Pump

Do You Have Any Of The Following In Your Home?

	Number		Number
Computers/Laptops:	<input type="text"/>	TV:	<input type="text"/>
Game Console:	<input type="text"/>	Battery Charger:	<input type="text"/>
Electric Blanket:	<input type="text"/>	Space Heater:	<input type="text"/>
Pool:	<input type="text"/>	Hot Tub:	<input type="text"/>
Well Pump:	<input type="text"/>	Heat Tape:	<input type="text"/>
Animal Water Heaters:	<input type="text"/>	Engine Block Heater:	<input type="text"/>
Dehumidifier	<input type="text"/>	Humidifier:	<input type="text"/>

### Miscellaneous

Lighting:      LED %      \_\_\_\_\_      Incandescent %      \_\_\_\_\_  
                 CFL %      \_\_\_\_\_      Florescent %      \_\_\_\_\_  
                 HID %      \_\_\_\_\_

Electric Vehicle Charger:      Yes      No

Do You Utilize Smart Plugs/Timers:      Yes      No

Do You Unplug When Not In Use?

Phone Chargers:      Yes      No      Computers/Chargers:      Yes      No

Small Appliances:      Yes      No      Batteries Chargers:      Yes      No

Electronics:      Yes      No

# Recommendations

## 1 Insulation

a. The 2012 Iowa Building Codes recommend attic insulation be at a minimum of R-49. However, it is recommended that your attic be insulated to a R-60.

R-value of Materials and Depths						
Material	R-value/in	3 1/2"	5 1/4"	10"	12"	15"
Fiberglass (batt)	3.14	10.99	16.485	31.4	37.68	47.1
Fiberglass blown (attic)	2.20	7.7	11.55	22	26.4	33
Fiberglass blown (wall)	3.20	11.2	16.8	32	38.4	48
Mineral Wool (batt)	3.14	10.99	16.485	31.4	37.68	47.1
Mineral Wool blown (attic)	3.10	10.85	16.275	31	37.2	46.5
Mineral Wool blown (wall)	3.03	10.605	15.9075	30.3	36.36	45.45
Cellulose blown (attic)	3.21	11.235	16.8525	32.1	38.52	48.15
Cellulose blown (wall)	3.70	12.95	19.425	37	44.4	55.5
Polystyrene Board	4.00	14	21	40	48	60
Polyurethane Board	5.00	17.5	26.25	50	60	75
Polyisocyanurate (foil-faced)	7.20	25.2	37.8	72	86.4	108
Open Cell Spray Foam	3.60	12.6	18.9	36	43.2	54
Closed Cell Spray Foam	6.50	22.75	34.125	65	78	97.5

b. If your home was built prior to 1965, it may not have exterior wall insulation. Insulating the wall cavities will keep your home more comfortable and will decrease air leakage.

c. Insulate and air seal your rim joist. The rim joist is the area between the basement and 1st floor where the joists sit on top of the foundation. This area is common to have air leakage, penetrations due to its construction.

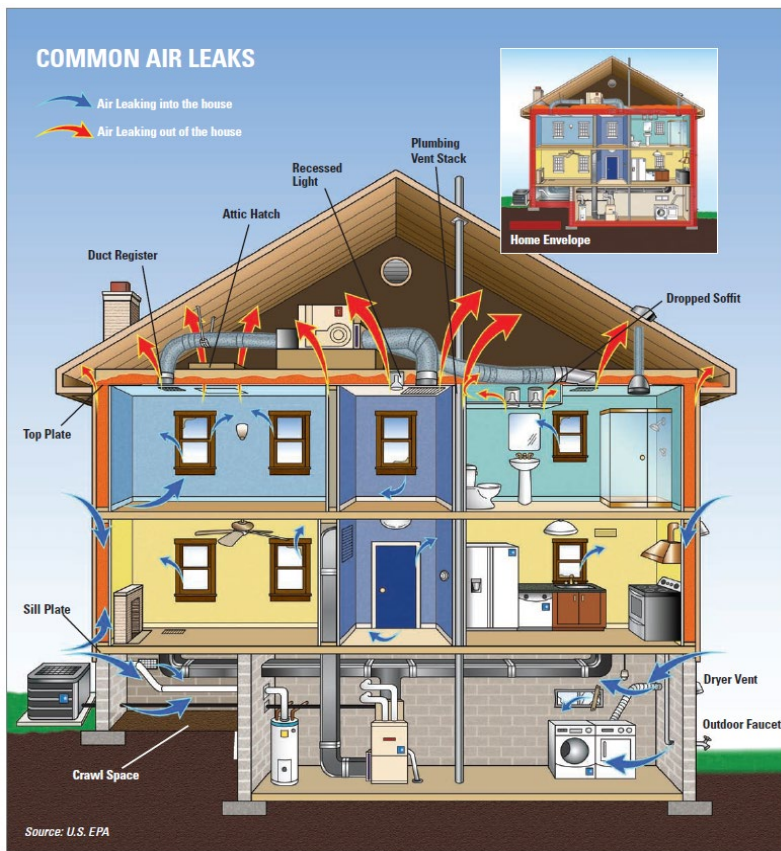
d. Insulate your basement.

## 2 Air Sealing - A good rule of thumbs is, if you can see daylight where there should not be daylight, you have air leakage.

a. Doors - replace weather stripping and door sweeps as needed. Visible daylight is a sign that your weather stripping needs to be replaced or the door itself may need adjustment to fit better into the frame.

b. Windows - common air leakage areas for window is where the window meets the framing. Sealing around the inside and outside of the window will reduce leakages.

c. Exterior penetrations - examples would be canned lighting, dryer vents, bath vents, attic hatch, AC lines, plumbing



### 3 HVAC

- Service/tune-up your heating and cooling systems on an annual basis. Doing this will help prolong their lifespan and help them run as efficiently as possible.
- If you have a Heat Pump or Air Conditioner, remove weeds, grasses, bushes and other obstructions from around the unit. Use a garden hose to clean the coils from dust, pollens and leaves.
- Set back your thermostat during the cooling months when away from the home to conserve energy.
- If your home is heated with natural gas or propane/LP, set back your thermostat during the heating months to conserve energy. (4 - 6 degree setback is recommended) If your home is heated with electric heat, find a comfortable temperature setpoint and keep it at that temperature as it is more cost effective.
- Replace your furnace filter every 1 - 3 months. This will vary on number of people in the home, pets and how often your furnace/air is running.

### 4 Water Heating

- 120 degrees is the recommended water temperature for efficiency and safety.
- Repair or replace leaky plumbing fixtures.
- Install low-flow showerheads in your bathroom.
- Wash clothes in cool or cold water.

### 5 Lighting and Appliances

- Replace incandescent and halogen bulbs with LEDs.
- Install occupancy sensor or motion sensor lights.
- When replacing appliances, purchase ones that are ENERGY STAR rated.