



## TOWN OF PERINTON

1350 TURK HILL ROAD, FAIRPORT, NEW YORK 14450-8796  
(585) 223-0770, Fax: (585) 223-3629, www.perinton.org

### BUILDING PERMIT REQUIREMENTS FOR CONVERTING TO ELECTRIC HEAT

1. Please add property address to all paperwork submitted.
2. The contractor/installer must have **General Liability, Workers' Compensation and Disability Benefits** insurance on file with the Town of Perinton before a permit can be issued. Please call the Code Enforcement and Development Department with any questions.
3. Minimal insulation standards as required per the Energy Conservation Construction Code of New York State:
  - Ceiling and roof assemblies = R-49
  - Walls, (above grade) = R-26
  - Floors over unheated basements or crawl spaces = R-30
  - Window U-factor = 0.31, maximum window area is 15% of the wall area
  - Basement wall = R-19
  - Opaque doors U-factor = 0.35
4. Provide the following information:
  - Estimated cost of all work.
  - Heat loss calculations and duct layout for the entire house.
  - Electrical system demand calculations for the entire house.
  - Specifications for furnace, Kw rating, blower CFM and electric requirements.
  - Specifications for all exterior doors and windows.
5. All seams in duct work, (new or existing), must be sealed by approved mastic or tape.
6. All duct work in exterior walls, basements and unconditioned spaces must be insulated to a minimal of R-8.
7. Smoke and carbon monoxide alarms shall be installed throughout the dwelling. See "SMOKE and CARBON MONOXIDE ALARM REQUIREMENTS" handout on page 3.
8. Provide an automatic setback thermostat for the furnace control.
9. Plan review is done by our staff prior to issuance of a building permit. After receiving the above information, this review is done in a timely manner. During busy times, the review of a minor project could take up to five days. We always try to expedite the review, but planning ahead helps us all.
10. At least 24 hours notice is required for inspections. Required inspections are noted on the building permit.
11. A Certificate of Compliance (final inspection) is required on all permits. It is the responsibility of the person obtaining the permit to schedule this inspection.
12. Permit Fee is \$15.00.



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### Comparison of cost to heat a house

Electric	Gas
3413 BTU per Kw	100,000 BTU per Therm
\$0.525 per Kw (Fairport winter rate)	\$1.33 per Therm (RG&E 12-13-05)

The following example is based on a house that had an average consumption of 190-Therm for the months of January, February and March in 2004.

#### Electric Heat:

$(190 \text{ Therm}) \times (100,000 \text{ BTU per Therm}) = 19,000,000 \text{ BTU}$

$(19,000,000 \text{ BTU}) \text{ divided by } (3413 \text{ BTU per Kw}) = 5567 \text{ Kw}$

$(5567 \text{ Kw}) \times (\$0.0525 \text{ per Kw}) = \mathbf{\$292.26 \text{ in electricity}}$

#### Gas Heat:

$(190 \text{ Therm}) \times (\$1.33 \text{ per Therm}) = \mathbf{\$252.70 \text{ in gas}}$

Remember, the 2005 price for natural gas in this example is inflated from the 2004 price due to hurricane Katrina's impact on supply. The price should come down as the supply reaches normal capacity.

Assume the price has jumped 20% over last year. The cost to heat this same home in **2004** would have been **\$201.60**.

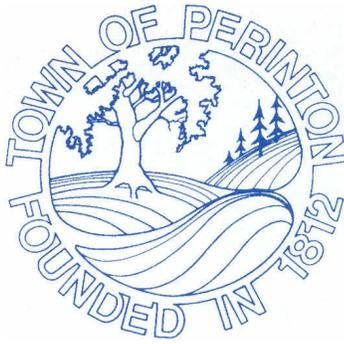
#### Upgrade Gas Furnace Efficiency:

If the example house had a 78% efficient furnace and was replaced with a 92% efficient model you would save 14% on gas consumption.

$\$252.70 \text{ minus } 14\% = \mathbf{\$217.32}$  (2005 inflated price)

$\$201.60 \text{ minus } 14\% = \mathbf{\$173.37}$  (2004 price)

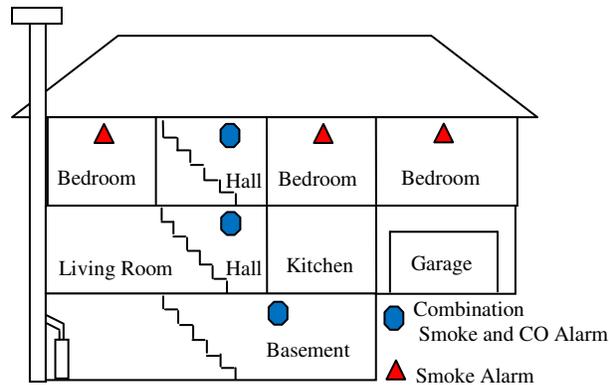
Remember, houses that were built for electric heat have higher standards for insulation, windows and doors. Comparing two houses of equal size does not mean they have the same energy efficiency.



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### SMOKE and CARBON MONOXIDE ALARM REQUIREMENTS



Whenever interior alterations, repairs, additions or conversions requiring a permit occur, or when one or more sleeping rooms are added or created in existing dwellings, the individual dwelling unit shall be provided with smoke and carbon monoxide alarms, as required for new dwellings. The required smoke and carbon monoxide alarms must be hardwired (120 volt) with battery backup and interconnected. The alarms shall be clearly audible in all bedrooms over background noise levels with all intervening doors closed.

Exception: Where smoke and carbon monoxide alarms are missing on the second floor, newly installed smoke and carbon monoxide alarms shall be permitted to be battery operated.

**This exception only applies when there is not any work associated with the second floor.**

**Smoke alarms** are required to be installed in the following locations:

1. In each sleeping room.
2. Outside each separate sleeping area in the immediate vicinity of the bedrooms.
3. On each additional story of the dwelling, including basements and cellars, but not including crawl spaces and uninhabitable attics.

**Carbon monoxide alarms** are required to be installed in the following locations:

1. On any story of a dwelling unit or sleeping room where fuel-fired appliances and equipment, solid-fuel burning appliances and equipment, fireplaces or attached garages are located.

Combination smoke and carbon monoxide alarms are permitted, provided the alarm is listed for such use and has distinctly different alarm signals for smoke or carbon monoxide alarm activation.