



I certify that I have received a copy of these regulations and will comply with the regulations contained herein.

\_\_\_\_\_  
Name

\_\_\_\_\_  
Date

INSPECTIONAL  
SERVICES DIVISION  
630-823-5860

VILLAGE OF HANOVER PARK FIRE DEPARTMENT

# Residential Energy Conservation

## A Building Permit Is Required to Modify the **Thermal Envelope**

### Insulation Requirements

The building thermal envelope shall meet the following requirements of the International Energy Conservation Code as adopted by the State of Illinois and Hanover Park.

- Wall insulation shall achieve an R-value  $\geq 20$  (or R-13 cavity + R-5 continuous)
- Attic insulation shall achieve an R-value  $\geq 49$  (or R-38 wherever the full height of uncompressed R-38 insulation extends over the wall top plate at the eaves)
- Ceilings without attics that are less than 500 sf or 20% of the house area may have an insulation rated at R-30.
- Baffles shall be installed or maintained adjacent to soffit and eave vents that maintain an opening equal or greater than the size of the vent, extending over the top of the attic insulation.
- Attic access shall be weather-stripped and insulated to a level equivalent to the insulation on the surrounding surfaces.
- Basement wall insulation shall be a minimum R-15 continuous or R-19 cavity.
- Floor insulation for slab-on-grade or above crawl spaces shall achieve an R-value  $\geq 30$  (or insulation sufficient to fill the framing cavity, R-19 minimum)
- Refer to the code for all other requirements.

### Glazing Requirements

The building fenestration shall meet the following requirements of the International Energy Conservation Code.

- All new windows shall have a U-factor  $\leq 0.30$

### Building Systems

#### Hot Water

All hot water piping shall be insulated to a minimum of R-3. (IECC R403.4)

#### HVAC

Existing HVAC systems that are replaced (in whole or in part) or otherwise modified in any way shall be equipped with a programmable thermostat. (IECC 403.1.1)

In unheated attics, supply ducts shall have a minimum R-8 insulation and return ducts shall have a minimum of R-6 insulation. Bathroom exhaust ducts shall have a minimum R-6 insulation.

#### Electrical Lighting Systems

- 90% of lamps in permanently installed fixtures shall be high-efficacy. IECC R404
- Continuously burning gas lights are not permitted.

**A minimum of 24 hour notice is required for all inspections. To schedule an inspection, or if you have any questions, please contact the Fire Department's Inspectional Services Division at 630-823-5860.**