



Village of Villa Park

Permitting Division

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ENERGY GUIDELINES

The following information contained herein is applicable to all construction. All work shall be performed in accordance with the International Energy Conservation Code adopted by the State of Illinois, as locally amended. This document may be updated periodically. Please check the department's web page to verify you have the current version of this document.

Submittals for construction:

You may submit a certificate from a computer program

- Residential requires a REScheck Certificate
- Commercial would require a COMcheck Certificate
 - Refer to US Department of Energy web page at <https://www.energycodes.gov/rescheck/>.

OR

Follow the prescribed ratings on the following charts:

RESIDENTIAL:

Climate Zone 5	U-factor windows	R-Value
Fenestration	0.30	
Skylights	0.55	
Ceiling		R49
Wood framed walls		R-20 or 13 +5
Mass wall		R-17
Floor		R-30
Basement wall		R-19
Slab		R10/2ft
Crawlspace		R-19

- All HVAC ductwork shall be sealed
- Fireplaces shall have tight fitting dampers
- Heating water pipes or hot water pipes shall be wrapped
- Ductwork shall be insulated in unconditioned spaces
- Programmable thermostat for each heating system
- 90% of permanently installed lighting fixtures shall contain high efficacy lamps
- New Homes require a "Blower Door Test" and a compliance certificate posted on a wall in the room with the furnace

COMMERCIAL/MULTIFAMILY:

Climate Zone 5	OTHER	GROUP R
Roof insulation entirely above the roof deck	R-30ci	R-30ci
Roof-Metal Buildings	R-19+R-11 LS	R-19+R-11 LS
Roof- Attic and Other	R-38	R-49
Walls- Above Grade-Mass	R-11.4 ci	R-13.3ci
Walls - Above Grade Metal Buildings	R13+R-13ci	R-13+R-13ci
Walls-Above Grade-Metal Frame	R-13_R-7.5ci	R-13+R-7.5ci
Walls-Wood Frame and Other	R-13+R3.8ci or R-20	R-13+R-7.5ci or R-20+R-3.8ci
Walls-Below Grade	R-7.5ci	R-7.5ci
Floors-Mass below grade	R-10ci	R-12.5ci
Floors-Joist/framing	R-30	R-30
Unheated slabs	R-10 for 24" below	R-10 for 24" below
Heated Slabs	R-15 for 36" below +R-5 full slab	R-15 for 36" below +R-5 full slab

- All HVAC ductwork shall be sealed
- Provide a vestibule large enough to comply with the Illinois Accessibility Code
They are required for doors used by the public in spaces larger than 3000sf
- Heating water pipes or hot water pipes shall be wrapped
- Ductwork shall be insulated in unconditioned spaces
- Provide the proposed detail of the lighting controls
- Provide occupancy sensors in spaces less than 300 sf, where lights shall shut off within 30 minutes after occupants leave the space (C405.2.2.2)