

**Village of Menands
Energy Code Information Sheet**

1. All new construction and existing building renovation in the Village of Menands must comply with the current Energy Conservation Construction Code of New York State (ECCCNYS), hereafter referred to as “the Code”.
2. Conformance with the Code must be demonstrated prior to issuance of a Certificate of Occupancy. Construction documents must represent the entire project, including the building and thermal envelope, HVAC, water-service heating, and lighting and electrical power systems.
3. All residential buildings must comply with the residential provisions of the Code. Residential buildings include: Detached one and two-family dwellings; multiple single-family dwellings (townhouses); and Group R-2, R-3, and R-4 that are three stories or less above grade (see New York State Building Code Chapter 3 Use and Occupancy Classification).
4. All buildings that are not defined as residential must comply with the commercial provisions of the Code.
5. Few buildings are exempt from the Code. Historic buildings are exempt only if they are listed on the Federal or State register. Locally designated historic must still comply with the Code.
6. To demonstrate compliance with Code, designers must select one of several compliance paths detailed in sections C401-C406 and R401-406 in the Code.
7. Designers may demonstrate compliance with the Code using the computer or web-based tools *COMcheck* and *REScheck* if they so choose.
8. For a list of the minimum detail construction documents must show to demonstrate compliance with the Code, see Table 1.
9. Inspections, as mandated by the Code, are required throughout the construction process. It is the responsibility of the applicant to inform the code official when each component is ready to be inspected. For a general inspection schedule, see Table 2.
10. For a general description of what the code enforcement inspector may be looking for, see Table 3.

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Table 1: Minimum Inclusions in Construction Documents

<p>Drawings Must</p>	<ul style="list-style-type: none"> • Be drawn to scale • Indicate the location, nature and extent of the work proposed • Detail pertinent data and features of the buildings, systems and equipment
<p>Drawings Must Show</p>	<p>Envelope</p> <ul style="list-style-type: none"> • Insulation materials and their R-values • Fenestration U-factors and solar heat gain coefficients (SHGCs) • Area-weighted U-factor and SHGC calculations • Air sealing details • Building thermal envelope depiction <p>Mechanical</p> <ul style="list-style-type: none"> • Mechanical system design criteria • Mechanical and service water-heating system and equipment type, sizes, and efficiencies • Economizer description* • Equipment and system controls (including narrative describing function, operation and setpoints) • Fan motor horsepower (hp) and controls* • Duct sealing, duct and pipe insulation and location <p>Lighting and Electrical Power</p> <ul style="list-style-type: none"> • Lighting fixture schedule with wattage and control narrative* • Location of daylight zones on floor plans* <p>Commissioning</p> <ul style="list-style-type: none"> • <i>Construction document</i> indicates provisions for <i>commissioning</i> and completion requirements* • Create a commissioning plan* • Submit commissioning documents to the owner* • Submit commissioning statement to the Department of Buildings (DOB) that says the project complies with or is exempt from commissioning requirements*
<p style="text-align: center;">* <i>Indicates for Commercial Construction Only</i></p>	

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Table 2: General Inspection Schedule

Inspection	Commercial	Residential
Footing and Foundation Inspection	<ul style="list-style-type: none"> • R-value, location, thickness, depth of burial and protection of insulation 	
Framing and Rough-in Inspection	<ul style="list-style-type: none"> • Made before application of interior finish • Insulation and corresponding R-values, location and installation; fenestration properties and installation; and air leakage 	
Plumbing Rough-in Inspection	<ul style="list-style-type: none"> • Types of insulation and corresponding R-values and protection; required controls; and required heat traps 	<ul style="list-style-type: none"> • Types of insulation and corresponding R-values and protection; and required controls
Mechanical Rough-in Inspection	<ul style="list-style-type: none"> • Installed HVAC equipment type and size; required controls; system insulation and corresponding R-value; system and damper air leakage; and required energy recovery and economizers 	<ul style="list-style-type: none"> • Installed HVAC equipment type and size; required controls; system insulation and corresponding R-value; system air leakage control; programmable thermostats; dampers; whole-house ventilation; and minimum fan efficiency
Electrical Rough-in Inspection	<ul style="list-style-type: none"> • Installed lighting systems, components and controls, and installation of an electric meter for each dwelling unit (submetering) 	<ul style="list-style-type: none"> • Not required
Final Inspection	<ul style="list-style-type: none"> • Verification that required building controls were installed and work correctly; commissioning was completed; and any findings of non-compliance have been corrected • Building considered for final inspection once the applicant has received the Commissioning Report (see C408.2.4) 	<ul style="list-style-type: none"> • Verification of the installation of all required building systems, equipment and controls, and their proper operation and required number of high-efficacy lamps and fixtures

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Table 3: General Description of Inspections

<p>Envelope</p>	<ul style="list-style-type: none"> • Visually inspect insulation and air sealing details • Confirm insulation R-value • Confirm fenestration labels for U-factor, SHGC, VT • Confirm that dimensions of windows, doors, and skylights match drawings • Check that penetrations are properly sealed • Visually inspect vestibules, loading docks, and projections • Report results of blower door tests
<p>Mechanical and Plumbing</p>	<ul style="list-style-type: none"> • Confirm tight-fitting fireplace doors • Test a minimum of 20% of shutoff dampers for proper operation • Visually inspect that HVAC and hot-water equipment matches drawings for functionality and setpoints • Visually inspect duct and pipe information • Test a minimum of 20% of ducts for leakage
<p>Electrical Power and Lighting</p>	<ul style="list-style-type: none"> • Visually inspect submeters and high-efficacy lamps • Commercial Only: <ul style="list-style-type: none"> ○ Visually inspect light fixtures to confirm lighting power allowance ○ Visually inspect exterior lighting fixtures ○ Visually inspect lighting controls and test for functionality and proper operation ○ Check exit signs and motors for compliance
<p>Other</p>	<ul style="list-style-type: none"> • Are maintenance manuals present? Do they match equipment? • Is Permanent Certificate installed?

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