

# TOWN OF HAMPDEN

**Code Enforcement Office  
Building Permit Application  
New Residential Construction**

**Permit Type**  
 **One-Family**  
 **Two-Family**  
 **Townhouse**



**Maine Uniform Building and Energy Code is enforced by Town of Hampden per 10 M.R.S. §9724**

**Applicant Name:** \_\_\_\_\_ **Phone:** \_\_\_\_\_

**Mailing Address:** \_\_\_\_\_ **Email:** \_\_\_\_\_

**City/Town:** \_\_\_\_\_ **State:** \_\_\_\_\_ **Zip:** \_\_\_\_\_ **Preferred Contact Method:**  Phone  Email

**Applicant same as property owner?**  YES  NO

**Owner Name:** \_\_\_\_\_ **Phone:** \_\_\_\_\_

**Mailing Address:** \_\_\_\_\_ **Email:** \_\_\_\_\_

**City/Town:** \_\_\_\_\_ **State:** \_\_\_\_\_ **Zip:** \_\_\_\_\_ **Preferred Contact Method:**  Phone  Email

**Contractor same as applicant?**  YES  NO **Contractor same as owner?**  YES  NO

**Contactor Name:** \_\_\_\_\_ **Phone:** \_\_\_\_\_

**Mailing Address:** \_\_\_\_\_ **Email:** \_\_\_\_\_

**City/Town:** \_\_\_\_\_ **State:** \_\_\_\_\_ **Zip:** \_\_\_\_\_ **Preferred Contact Method:**  Phone  Email

**Who should Code Enforcement Call with questions regarding this application?**

Applicant  Owner  Contractor

**Street Number (Not Lot #):** \_\_\_\_\_ **Street Name:** \_\_\_\_\_

**Tax Map:** \_\_\_\_\_ **Lot:** \_\_\_\_\_ - \_\_\_\_\_ **Zoning District(S):** \_\_\_\_\_ **Road Frontage:** \_\_\_\_\_ ft

**Expected Total Construction Cost:** \$ \_\_\_\_\_

**WILL YOUR PROJECT RESULT IN MORE THAN ONE ACRE OF DISTURBED LAND AREA?**  YES  NO.

**If yes, you are required to obtain a Construction General Permit or Stormwater Permit by Rule from the Maine Department of Environmental Protection.**

**Proposed Structure Setbacks: (Actual proposed Setbacks not Zone Minimum)**

**Front (street) Lot Line:** \_\_\_\_\_ ft. **Side Lot Line (closest):** \_\_\_\_\_ ft. **Rear Lot Line:** \_\_\_\_\_ ft.

**We highly recommend the use of a Professional Land Surveyor for siting the building location**

**Proposed Structure Dimensions:** Length \_\_\_\_\_ ft. Width \_\_\_\_\_ ft.

**Proposed Square Footage:** Basement: \_\_\_\_\_ ft.<sup>2</sup> 1<sup>st</sup> Floor: \_\_\_\_\_ ft.<sup>2</sup> 2<sup>nd</sup> Floor: \_\_\_\_\_ ft.<sup>2</sup>

**Garage:** \_\_\_\_\_ ft.<sup>2</sup> **Decks:** \_\_\_\_\_ ft.<sup>2</sup> **Other:** \_\_\_\_\_ ft.<sup>2</sup> **Total Square Footage:** \_\_\_\_\_ ft.<sup>2</sup>

**Proposed Structure Height:** \_\_\_\_\_ ft. # Stories: \_\_\_\_\_

**Water Supply:**  Private  Public: Contact Hampden Water District (862-3490) for meter sizing.

**Sewage Disposal: (Permits must be issued prior to Building Permit issued)**  Septic System  Public Sewer



**ROOF-CEILING CONSTRUCTION** (Ground Snow Load= 70 lbs. per square foot)

Pre-Engineered Wood Trusses or  Rafters Is ceiling attached to rafters?  Yes  No

If using rafters please fill-in below:

Location: \_\_\_\_\_ Size: \_\_\_\_\_ Spacing: \_\_\_\_\_ oc Species: \_\_\_\_\_ Grade: \_\_\_\_\_ Span: \_\_\_\_\_

Location: \_\_\_\_\_ Size: \_\_\_\_\_ Spacing: \_\_\_\_\_ oc Species: \_\_\_\_\_ Grade: \_\_\_\_\_ Span: \_\_\_\_\_

**Roof Covering Assembly:**

Ice Protection: \_\_\_\_\_ *Required from the eaves edge to a point 24" inside the exterior wall line*

Underlayment: \_\_\_\_\_ *Only one layer required on roof slopes in excess of 4:12*

Weather Surface: \_\_\_\_\_ **Roof Style:** (*Gambrel, Shed, Gable, Hip, etc.*) \_\_\_\_\_

**INSULATION**

| Location                       | Material | R-Value or U-Factor: | Min. Req'd                   |
|--------------------------------|----------|----------------------|------------------------------|
| Basement Walls                 |          |                      | R-10/13                      |
| Floor over unconditioned space |          |                      | R-30                         |
| Slab and Basement Floors       |          |                      | R-10, 4 ft. (R-15 if heated) |
| Exterior Walls                 |          |                      | R-20 or 13+5                 |
| Ceiling                        |          |                      | R-49                         |
| Doors                          |          |                      | U-0.35                       |
| Windows                        |          |                      | U-0.35                       |
| Other                          |          |                      |                              |

Blown-in and/or Sprayed insulation to be used - *Certificate of Insulation by the installer must be provided.*

**SHEATHING**

**Material:** (Ex. Plywood, OSB)

**Species:**

**Grade:** (Ex. -A1, A2, C1, etc.)

**Other:**

|                |  |  |  |  |
|----------------|--|--|--|--|
| Exterior Walls |  |  |  |  |
| Floors         |  |  |  |  |
| Roof           |  |  |  |  |

**FINISHES**

**Material:** (Ex. - Tyvar & Vinyl Siding, Paint & Paper, Ceramic Tile, etc.)

|                 |  |
|-----------------|--|
| Exterior Walls  |  |
| Interior Walls  |  |
| Bathroom Walls  |  |
| Bathroom Floors |  |
| Kitchen Floor   |  |
| Other:          |  |

**TEMP. CONTROL**

**Fuel and Distribution Type:**

|                     |  |
|---------------------|--|
| Main Heating System |  |
| Hot Water           |  |
| Air Conditioning    |  |



# **TOWN OF HAMPDEN** **CODE ENFORCEMENT OFFICE**

## **Residential Permit Submission Requirements**

EFFECTIVE 1/19/15

### **New Construction**

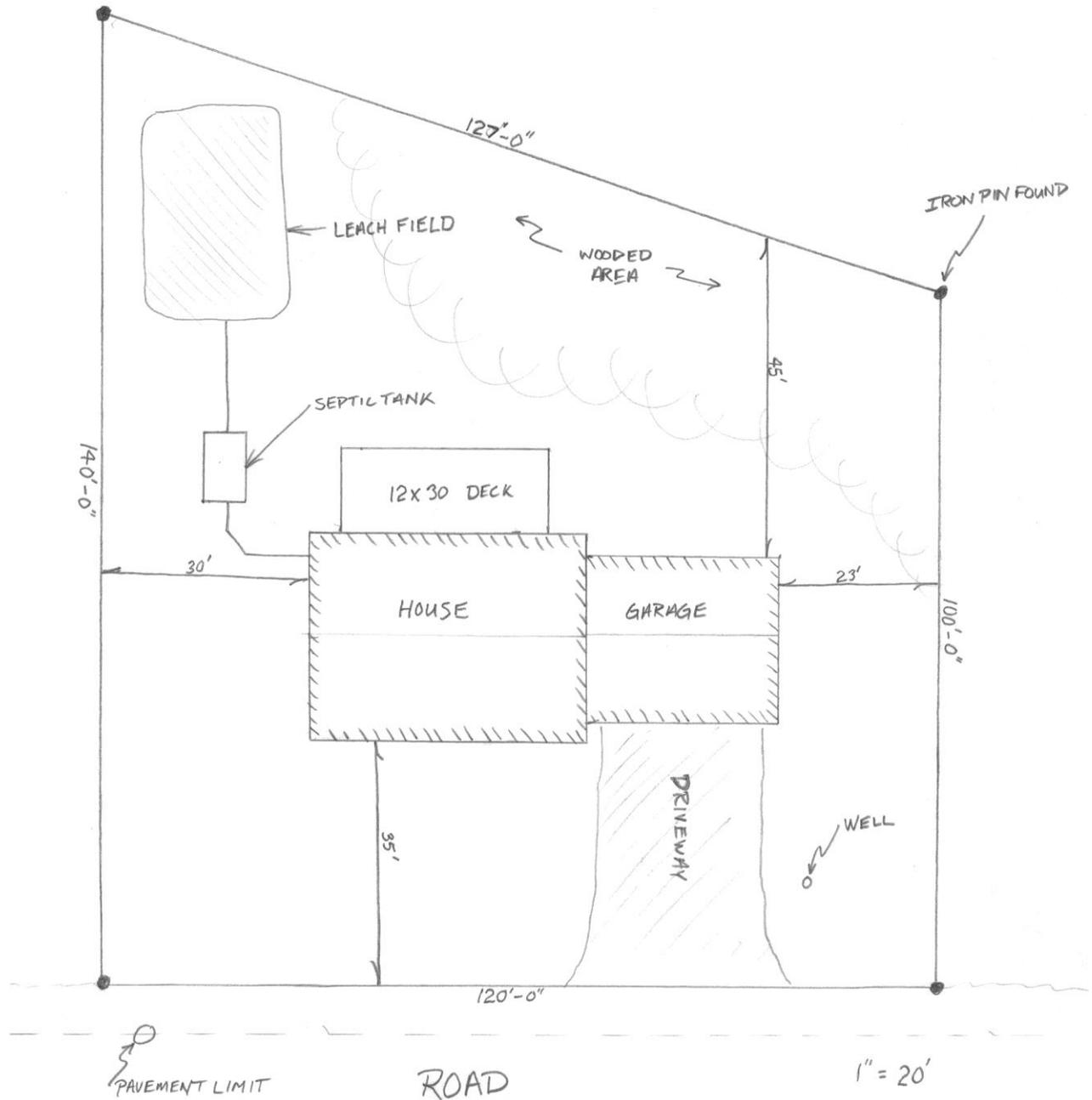
- Building Permit Application, signed by both the Applicant and Owner.
  - If not signed by land/building owner, a letter MUST accompany permit application stating the applicant has permission to obtain a permit on the owner's behalf.
- Four (4) copies of the building plans (see Plan Requirements below)
- Plot Plan
- Plumbing Application (HHE-211)
- Subsurface Wastewater Disposal System Application (HHE-200), *if applicable*
- Sewer Hook-on Application, *if applicable*
- Electrical Inspection Form, *submitted at project prior to Final Inspection*
- Chimney or Fireplace Construction/Installation Disclosure
- Radon Acknowledgement Form, *submitted at time of application*
- Owner Signed Inspection Acknowledgement Forms, *submitted at time of application*
- Truss Design, Stamped by Maine Professional Engineer, *submitted at project prior to Final Inspection, if applicable*
- Blower Door Test Results, *submitted at project prior to Final Inspection*
- Insulation Certification Form, Blown or Sprayed Insulation, *submitted at project prior to Final Inspection*

### **New Residential Plan Requirements**

- Minimum page size 11" X 17", minimum scale of 1/8 inch = 1 square foot; all dimensions must be shown
- Name, address and occupation of the building designer. If the plans are prepared by a Maine-registered design professional, at least one set of plans must bear the original signature, seal, and date. This set will be retained by the Town.
- List of material specifications including, but not limited to, grade and species of lumber and concrete and steel strength
- List of design load criteria: live load, dead load, snow load, wind speed, soil bearing capacity, and lateral earth pressure
- Foundation plan
- Building height must be provided by listing the information on the plans
- Lot coverage must be provided by listing the information on the plans
- Footing details (Frost Depth is 5 feet)
- Floor plans of all levels with all rooms labeled
- Locations of smoke and carbon monoxide alarms
- Structural framing plans for each level and roof accurately detailing all members, sizes, span lengths, and spacing
- Structural details of connections
- Load calculations for all adjustable columns
- Typical wall section with sheathing thickness and type
- Insulation R-values and U-factors.
- Wall bracing including location of all braced wall lines and braced wall panels, method(s), and any other special requirements. Proprietary products require an evaluation report from an approved listing agency. Designed shear walls require the submission of design calculations sign and sealed by a Maine-registered design professional.
- Building cross sections with all posts, joists and beams labeled

- Elevations (front, sides and rear) indicating window and door dimensions. Exterior grade (both preconstruction and post construction) must be accurately shown
- Whirlpool/Jacuzzi/over-sized tub manufacturer's information showing structural loading requirements
- Location of safety glazing
- Manufacturer's design specifications for pre-fabricated fireplaces
- All plans must adhere to, *as applicable to the project*:
  - Architectural Drawings
    - Name and address of project
    - Name, address and occupation of the author of the construction documents.
    - Scaled and dimensioned floor plans with all room names labeled; doors and windows shown; and special features clearly noted.
    - Exterior elevations, showing all openings.
    - All door and window sizes noted either on elevations, plans or door and window schedules referenced to plans. Indicate sleeping room and basement egress.
    - Complete sections and details for foundations, floors, walls and roofs, with components of assemblies completely noted, properly cross-referenced, with floor-to-floor heights dimensioned.
    - Indicate compliance with braced wall requirements, indicating the specific methods used and details of the method(s) in the construction documents. (See below for additional information)
    - Indicate compliance with Energy Code. Show insulation values plus mechanical drawings as required below.
    - Indicate stair dimensions, tread and riser dimensions, handrail and guardrail information.
    - For additions and renovations, make clear the distinction between existing construction, alterations to existing, and new work.
    - For two-family residences, duplexes and townhouses, indicate rated walls, provide a copy of the testing agency design detail(s) on the drawings, and show compliance with other required dwelling unit separation provisions.
    - For townhouses, sprinkler system plan.
  - Wall-bracing plan review
    - The IRC wall-bracing method must be noted on the submitted plans, with areas of braced walls shown on elevations and interior braced wall length shown on floor plans. The areas of braced wall must be clearly and obviously shown and noted, by darker shading or some other standard black and white graphic method. Connections, details and nailing schedule must be shown on plans. Details showing continuous load path and uplift resistance must be shown (i.e. wall sheathing lapped over rim joists or metal strap connections of walls to floor system, etc).
    - Construction drawings must include design details of portal frame, standard manufactured shear panels or other pre-engineered approved methods, if used.
    - Structural calculations bearing the dated signature and seal of a design professional registered in the State of Maine are acceptable as an alternative to prescriptive design.
  - Structural Information
    - Note uniform design loads and any special loading.
    - Scaled and dimensioned foundation plans. Show ventilation and access openings as required.
    - Scaled and dimensioned floor and roof framing plans. Indicate all beam sizes, headers, ledgers, posts and columns. Note species and grade of lumber, or manufactured structural members performance grade.
    - Sections and details properly referenced to plans.
    - Reinforcing steel, if used, for slabs, retaining walls, grade beams, foundations and foundation walls.
    - For additions and renovations, detail the existing structure and footings that provide bearing for new work.
    - Structural calculations, signed and sealed by a structural design professional, licensed in the State of Maine, for those structural elements that exceed the tabular values set forth in the code, and for retaining walls with a difference in grade of greater than two feet.
    - General notes and construction notes.

# SAMPLE Plot Plan



**THIS SKETCH IS FOR REPRESENTATIONAL PURPOSES ONLY.**

Refer to Town of Hampden Zoning Ordinance for setback requirements, etc. Surveys or mortgage sketches may also be used.

We highly recommend the use of a Professional Land Surveyor for siting the location of your Principal Use Structure

**TOWN OF HAMPDEN**  
**CODE ENFORCEMENT OFFICE**

**PLOT PLAN**

**IF YOUR PROJECT INVOLVES A LOT IN A SUBDIVISION PLEASE ASK FOR COPY OF PLAT PLAN**

Plan should be drawn to scale. Please be as detailed as possible. Include all existing structures, wells, septic areas, driveways, etc.

Also include setbacks of structures from each other and property lines.

**Front (Street Right-of Way) Lot Line**

# **TOWN OF HAMPDEN**

## **CODE ENFORCEMENT OFFICE**

### **Required Building Inspections and Acknowledgement**

**These are possible Inspection Requirements. Depending on the simplicity or complexity of the project more or less inspections may be required. The Building Official is the authority on required MUBEC inspection and the Fire Inspector is the authority on required Fire Inspections.**

#### **Foundation:**

1. Pre-pour footing inspection: Forms in place prior to pouring of concrete
2. Pre-pour wall inspection: Rebar in place both horizontal and vertical if needed
3. Pre-pour slab-on-ground/basement floor inspection: After foundation drainage is in place, damp-proofing or waterproofing of walls has been applied, radon provisions have been made and fill or base material is in place and covered with vapor retarder. If insulation is required beneath slab, it shall be in place prior to this inspection.

\*If exterior foundation insulation is being used another inspection may be required to verify its installation.

#### **Rough-in:**

4. Framing: When all framing is done, and plumbing, electrical and mechanical (i.e. clothes dryer vent, bathroom and kitchen exhaust fan, heating lines) rough-in is complete. Vertical penetrations sealed. Just prior to placement of insulation.
5. Insulation: Prior to covering or concealing any insulating material. This may take more than one inspection depending on products and methods being used.

**→The installer certification for blown or sprayed insulation shall be submitted at this time or prior to issuance of a Certificate of Occupancy.**

**→If Engineered products (Trusses, TJIs, LVL, etc...) were used PE stamped designs shall be submitted at this time or prior to issuance of a Certificate of Occupancy.**

6. Fire-resistance-rated construction inspection: Where fire-resistance-rated construction or separation is required between dwelling units or dwelling units and attached garages. This includes the garage ceiling if living space above. Inspection shall be conducted prior to fasteners and joints being taped or finished.

#### **Final:**

7. Final Inspection: When ALL work on the project is complete and the site has been permanently stabilized. The project should be “move-in” ready. This inspection must be done prior to occupying the home per *Maine Uniform Building & Energy Code, Section R110 Certificate of Occupancy* and the *Town of Hampden Zoning Ordinance, Section 5.3.2. Certificate of Compliance.*

**→Blower Door test report or Third Party visual air sealing inspection report shall be submitted prior to issuance of a Certificate of Occupancy.**

**→Master Electricians sign-off form (Single-Family) or Copy of State Electrical Permit (Two-Family or Townhouse) shall be submitted prior to issuance of a Certificate of Occupancy.**

For questions pertaining to the Maine Uniform Building & Energy Code or Life Safety Code please contact the Building Official @ 207-862-4000.

For questions pertaining to the applicable Fire Code, Life Safety Code, and ADA please contact the Fire Inspector 207-862-4000.

**Building Permit Applicant Acknowledgement: I \_\_\_\_\_ acknowledge that if the required inspections are not called for by myself or the contractor and performed by a Municipal Building Inspector, to their satisfaction, a Certificate of Occupancy may not be issued upon completion of the project.**

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**Note: Please allow at least 24 hours' notice prior to all required inspections.**

# TOWN OF HAMPDEN CODE ENFORCEMENT OFFICE

## Required Internal Plumbing Inspections and Acknowledgement

1. Under-Slab: (If needed): In slab plumbing *prior* to pouring concrete. If any plumbing piping, radiant heat, etc will be in the slab this inspection needs to be done prior to being covered with concrete.
2. Plumbing Rough-In: When all framing is done, plumbing, and mechanical (i.e. clothes dryer vent, bathroom and kitchen exhaust fan, heating lines) rough-in is ready for Inspection. Just prior to placement of insulation. This Inspection should be in conjunction with the MUBEC Framing Inspection.
8. Final Inspection: When ALL work on the project is complete and the site has been permanently stabilized. The project should be “move-in” ready. This inspection must be done prior to occupying the home per *Maine Uniform Building & Energy Code, Section R110 Certificate of Occupancy* and the *Town of Hampden Zoning Ordinance, Section 5.3.2. Certificate of Compliance.*

For questions pertaining to the Plumbing Code please contact the Local Plumbing Inspector @ 207-862-4000.

**Internal Plumbing Permit Applicant Acknowledgement: I \_\_\_\_\_ acknowledge that if the required inspections are not called for by myself or the contractor and performed by the Local Plumbing Inspector or alternate, to their satisfaction, a Certificate of Occupancy may not be issued upon completion of the project.**

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

## Required Subsurface Wastewater Septic System Plumbing Inspections and Acknowledgement

1. Scarification (REQUIRED): Scarifying the original soils, removing all tree stumps, roots, rocks, etc. After site is prepared to ascertain that the vegetation has been cut and removed in the disposal field area, the area under the disposal field and backfill extensions has been roughened, a transitional horizon has been established, and the erosion and sedimentation control measures are in place.
2. Bottom of Bed (OPTIONAL): Add fill up to grade of bottom of the bed elevation. This must clean fill.
3. Top of Bed (REQUIRED): Prior to covering the system: After installation of system components, including stone, pipes or proprietary devices, & tanks but before backfill is placed above the disposal system components. This inspection must include any curtain drains, diversion ditches, berms or other measures outlined on the design to improve the function of the system.
4. Final (OPTIONAL): Cover with clean fill as noted on the plan including the extensions. Then cover with clean loam, seed or mulch all soil disturbed areas.

For questions pertaining to the Maine Subsurface Wastewater Rules please contact the Local Plumbing Inspector @ 207-862-4000.

**Subsurface Plumbing Permit Applicant Acknowledgement: I \_\_\_\_\_ acknowledge that if the required inspections are not called for by myself or the contractor and performed by the Local Plumbing Inspector or alternate, to their satisfaction, a Certificate of Occupancy may not be issued upon completion of the project.**

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**Note: Please allow at least 24 hours' notice prior to all required inspections.**

**TOWN OF HAMPDEN**  
**CODE ENFORCEMENT OFFICE**

**ELECTRICAL CERTIFICATION FORM**  
**(Single-family Residential Construction Only)**

This form shall be completed by a State of Maine Licensed Master Electrician or Limited Electrician in House Wiring for all new residential electrical installations. In lieu of this form, a State of Maine Electrician's Examining Board, Single-family Dwelling Certificate of Approval may be submitted.

Owner's Name: \_\_\_\_\_

Property address: \_\_\_\_\_

\_\_\_\_\_

Tax Map & Lot #: \_\_\_\_\_

I, \_\_\_\_\_, License # \_\_\_\_\_  
*(Printed Name of Master Electrician or Limited Electrician in House Wiring)*

certify that I am a  State of Maine Licensed Master Electrician or  Limited Electrician in House Wiring. I further certify that I have  inspected or  installed all electrical work and materials at the above-referenced property located in the Town of Hampden, Maine and have found them to be in compliance with the most current edition of *NFPA 70 National Electric Code*, as adopted by the State of Maine Electrician's Examining Board.

Electrician's Address: \_\_\_\_\_

\_\_\_\_\_

Electrician's Phone #: \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
*(Master Electrician or Limited Electrician in House Wiring)*

**TOWN OF HAMPDEN**  
**CODE ENFORCEMENT OFFICE**

**BLOWN OR SPRAYED INSULATION**  
**INSTALLER CERTIFICATION FORM**

| Area Insulated | Type of Insulation & Manufacturer | Blown Insulation                           |                          |                 |                   |                                |
|----------------|-----------------------------------|--|--------------------------|-----------------|-------------------|--------------------------------|
|                |                                   | Insulation's coverage per bag <sup>1</sup> | Number of Bags Installed | Settled R-value | Initial Thickness | Settled Thickness <sup>2</sup> |
| Attic          |                                   |  |                          |                 |                   |                                |
| Walls          |                                   |  |                          |                 |                   |                                |
| Floors         |                                   |  |                          |                 |                   |                                |

1. The number of bags required to result in a given R-value for a given area
2. Not required where the insulation R-value is guaranteed

| Area Insulated | Type of Insulation & Manufacturer | Sprayed Poly Foam (SPF) |         |                   |
|----------------|-----------------------------------|-------------------------|---------|-------------------|
|                |                                   | Installed Thickness     | R-value | Fire Coating Used |
| Attic          |                                   |                         |         |                   |
| Walls          |                                   |                         |         |                   |
| Floors         |                                   |                         |         |                   |

**Property Owner's Name:** \_\_\_\_\_

**Property Address:** \_\_\_\_\_

**Tax Map & Lot #** \_\_\_\_\_

**Installer Name:** \_\_\_\_\_

**Installer Phone Number:** \_\_\_\_\_

**Insulation Installer Declaration:**

I hereby certify that I installed the above specified insulation at the above specified location in accordance with the manufacturer's installation instructions.

\_\_\_\_\_  
**(Authorized Signature)**

**TOWN OF HAMPDEN**  
**CODE ENFORCEMENT OFFICE**

**RADON ACKNOWLEDGEMENT FORM**

The Maine Uniform Building and Energy Code (MUBEC) contains a voluntary standard for the installation of Radon control features. If a radon control system is going to be installed during construction of a new home, the installation must comply with ASTM Standard E 1465 *Standard Practice for Radon Control Options for the Design and Construction of New Low-Rise Residential Buildings*.

Property Owner's Name: \_\_\_\_\_

Property Address: \_\_\_\_\_

\_\_\_\_\_

Tax Map & Lot # \_\_\_\_\_

I will be installing a radon control system during construction of the new home at the above referenced property.

or

I will not be installing a radon control system during construction of the new home at the above referenced property.

I am aware of the voluntary radon standard contained in the Maine Uniform Building and Energy Code. By signing this form I am agreeing to either install or not install a radon control system during construction of the new home. If I install a system, I recognize that I will be required to submit radon test results certified by a Maine registered radon tester to the Code Enforcement Office prior to issuance of a Certificate of Occupancy.

Owner or Applicant Signature: \_\_\_\_\_

For more information on radon contact the Maine Radiation Control Program. Or visit them on the Web at: <http://www.maine.gov/dhhs/mecdc/environmental-health/rad/radon/hp-radon.htm>.

## STATE OF MAINE CHIMNEY OR FIREPLACE CONSTRUCTION/INSTALLATION DISCLOSURE

Dear Consumer: State law, specifically 32 M.R.S.A. § 18108, requires that chimney or fireplace installers, as of January 1, 1992, provide you with this "Disclosure" prior to the installation or construction of your chimney or fireplace. The purpose of this Disclosure is to inform you that the National Fire Protection Standard #211 (NFPA #211) is the current standard which applies to all new construction of chimneys and fireplaces. Please note that the State of Maine does not require registration or licensure of chimney or fireplace installers. It is important to realize that many fires are caused each year from improperly constructed fireplaces and chimneys. This disclosure form should help you in making an informed decision as to the abilities of the installer and under what requirements the installation must comply.

### INSTALLER INFORMATION

|   |        |                                      |  |
|---|--------|--------------------------------------|--|
| Name of Installer:  |        | D/B/A:                               |  |
| Name of Installer (if incorporated):                          |        | D/B/A:                               |  |
| Legal Address:  |        |                                      |  |
| City:   | State: | Zip Code:                            |  |
| County:   |        | Home Telephone: (____) _____ - _____ |  |
|   |        | Work Telephone: (____) _____ - _____ |  |
| Years of experience doing fireplace or chimney installations: |        |                                      |  |

### CONSUMER INFORMATION

|                   |        |                                      |
|-------------------|--------|--------------------------------------|
| Name of Consumer: |        |                                      |
| Mailing Address:  |        |                                      |
| City:             | State: | Zip Code:                            |
| County:           |        | Home Telephone: (____) _____ - _____ |
|                   |        | Work Telephone: (____) _____ - _____ |

Installer, please give a brief description of installation being offered: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

I hereby attest that the preceding information provided is true to the best of my knowledge. I also understand that if I fail to conform with the standards as outlined in NFPA #211 that I shall be subject to penalties as outlined in Title 32, M.R.S.A., Chapter 33 and the Oil and Solid Fuel Board Rules.

Signature of Installer: \_\_\_\_\_ Date: \_\_\_\_\_

## **INSTALLATION STANDARDS**

The 2006 Edition of NFPA #211 contains provisions for chimney, fireplaces, venting systems, and solid fuel burning appliances including their installations. The standards apply to residential as well as commercial and industrial installations.

### **PLEASE CHECK THE TYPE OF CONSTRUCTION TO BE BUILT:**

#### **Factory-Built Chimney and Chimney Units.**

Factory-built chimney and chimney units shall be listed and installed in accordance with the temperature conditions of the listing, the manufacturer's instructions and all applicable sections of NFPA #211.

#### **Factory-Built Fireplaces.**

Factory-built fireplaces shall be listed and shall be installed in accordance with the terms of the listing. Hearth extensions shall be provided in accordance with the manufacturer's instructions or shall be of masonry on non-combustible construction in accordance with applicable sections of NFPA #211.

#### **Unlisted Metal Chimney (smokestacks) for Non Residential Applications.**

Single wall metal chimneys or unlisted metal chimneys shall not be used inside or outside of one and two family dwellings. Metal chimneys shall be constructed and installed in accordance with the appropriate sections of NFPA #211

#### **Masonry Chimney.**

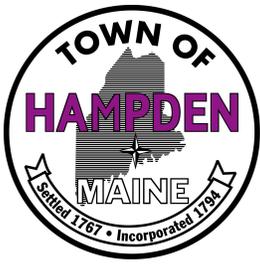
Masonry chimneys shall be constructed by appropriate sections of NFPA #211 for proper design, support, re-enforced, and installation..

#### **Masonry Fireplace.**

Masonry fireplaces shall comply with all requirements of NFPA #211 and all other pertinent sections.

## **CONSUMER CHECKLIST**

1. Has the installer provided you with a written contract? 10 M.R.S.A., Chapter 219-A requires written contracts for any home remodeling or construction with an estimated cost in excess of \$3,000.
2. Have you asked the local fire department or code enforcement officials to inspect the installation during and after construction?
3. Is the installer familiar with current NFPA #211 standards and does he have a copy of same?
4. Have you asked for references to be provided by the installer?



**Town of Hampden**  
**Maine Uniform Building and Energy Code**  
**Residential Energy Code Application**  
 for Certification of Compliance for New Construction, Additions and/or Renovations  
 (2009 IECC Compliance Form)  
**Minimum Provisions**  
 Effective Date: December 1, 2010

|  |         |        |   |        |      |
|--|---------|--------|---|--------|------|
| <b>Owner/Owner Builder:</b> Company Name: (if applicable)  |         |        | <b>General Contractor:</b> Company Name:  |        |      |
| Name:  |         |        | Name:   |        |      |
| Mail Address:  |         |        | Mail Address:   |        |      |
| Town/City:   | State:  | Zip:   | Town/City:  | State: | Zip: |
| Phone:   | Cell:   |        | Phone:  | Cell:  |      |
| E-Mail:  |         |        | E-Mail:   |        |      |
| <b>Location of Proposed Structure:</b>   |         |        | <b>Type of Construction:</b>  |        |      |
| Tax Map #:   |         | Lot #: | <input type="radio"/> Residential <input type="radio"/> Small Commercial<br><input type="radio"/> New Building <input type="radio"/> Renovation <input type="radio"/> Addition<br><input type="radio"/> Thermally Isolated Sunroom<br><input type="radio"/> Modular Home: the site contractor must submit this form detailing supplementary rooms and Floor and/or Basement insulation unless the floor insulation is installed or provided by the manufacturer and no heated space is added. |        |      |
| Street:  |         |        | * A conditioned space is one being heated or cooled, containing uninsulated ducts or with a fixed opening into a conditioned space.   |        |      |
| Town/City:   | County: |        |   |        |      |
| <b>Total New Conditioned* Floor Area:</b>  |         |        |   |        |      |
| _____ ft <sup>2</sup>  |         |        |   |        |      |
| <b>Heating System:</b> (if new system is being installed)<br><b>Annual Fuel Use Efficiency (AFUE):</b> _____ %<br><b>Fuel Type(s):</b> <input type="checkbox"/> Oil <input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane (LP)<br><input type="checkbox"/> Electric <input type="checkbox"/> Wood <input type="checkbox"/> Other _____<br><b>Heating System Type:</b> <input type="checkbox"/> Hot Water <input type="checkbox"/> Hot Air<br><input type="checkbox"/> Stove <input type="checkbox"/> Resistance <input type="checkbox"/> Heat Pump <input type="checkbox"/> Geothermal |         |        | <b>Basement or Crawl Space:</b> (*a conditioned space is one being heated or cooled, containing un-insulated ducts or with a fixed opening into a conditioned space. Walls must be insulated)<br><b>Conditioned?</b> <input type="radio"/> Yes (Walls must be insulated) <input type="radio"/> No<br><br><input type="checkbox"/> Full Basement <input type="checkbox"/> Walk Out Basement<br><input type="checkbox"/> Slab on Grade <input type="checkbox"/> Other _____                     |        |      |
| <b>Structure is EXEMPT because:</b><br><input type="checkbox"/> Mobile Home <input type="checkbox"/> On an historic register<br><input type="checkbox"/> Low energy use (less than 1 watt/ ft <sup>2</sup> )   |         |        | <b>Form Submitted by:</b><br><input type="checkbox"/> Owner <input type="checkbox"/> Builder <input type="checkbox"/> Designer <input type="checkbox"/> Other _____<br>Architects must certify plans meet code; no form required  |        |      |

I hereby certify that all the information contained in this application is true and correct, and construction shall comply in all respects with the terms and specifications of the approval given by the Code Enforcement Officer of the Town of Hampden and meet the requirements of the Maine Uniform Building and Energy Code.

**Signature** \_\_\_\_\_ **Print Name** \_\_\_\_\_ **Date** \_\_\_\_\_

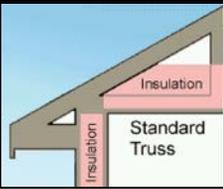
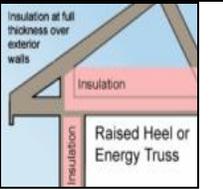
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| <b>Official Use Only</b>                   |  |
| <b>Date Complete Application Received:</b> | <b>Approved by:</b> _____ <b>Date:</b> _____ |
| <b>Building Permit Number:</b>             | <b>Circle One:</b>                           |
|  | <b>Prescriptive / Performance</b>            |

# MUBEC Residential Energy Code

Building Permit No.:

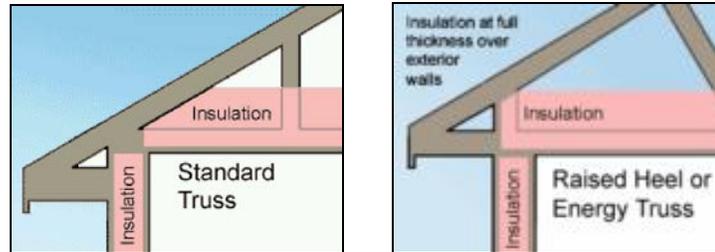
Directions: Complete the "Your Proposed Structure" columns. No measurements or calculations are needed. If you at least meet the Maine Uniform Building and Energy Code requirements, your project will be approved. Write N/A in any section that does not apply to your project. If your planned structure cannot meet these requirements, consider downloading REScheck from <http://www.energycodes.gov/rescheck/download.stm> and use trade-offs to prove compliance.

You are encouraged to build with higher R-values and lower U-values than you report here. The "Required R or U Values" are the worst permitted in ME.

| Building Section  | Required R or U Values  | YOUR PROPOSED STRUCTURE   |   |
|---|---|---|---|
|   |   | Write Planned R and U Values  | Brands / Models / insulation type and thickness (if known)  |
| <b>Window U Factor</b><br><i>(lower U is better)</i>  | <b>U .35</b> (maximum)<br>U-.32 (if log walls in Zone 5)<br>U-.30 (if log walls in Zone 6)<br><b>U .50</b> (Thermally Isolated Sunrooms only)   | Write in U-Value  | Check if <input type="checkbox"/> Sunroom <input type="checkbox"/> Log Walls  |
| <b>Skylights</b>  | <b>U .60</b>  |   |   |
| <b>Flat Ceiling<sup>i</sup></b><br><i>or</i><br><b>Flat Ceiling with Raised or Energy Trusses R-value</b> | <br><b>R-38</b> (Zone 5)<br><b>R-49</b> (Zone 6) if using the above construction technique<br><b>R-49</b> if log walls <br><b>R-30</b> (Zone 5)<br><b>R-38</b> (Zone 6) if maintaining the full R value over the plates<br><b>R-49</b> if log walls | Write in R-Value<br><br>→<br>If using only R-30 in Zone 5 or R-38 in Zone 6 you must check this box | NOTE: R-38 will be deemed to satisfy the requirement for R-49 if the full R-38 insulation value is maintained over the outside plates. <b>If using only R-30 (Zone 5) or R-38 (Zone 6), you must certify that you'll maintain R-38 over the plates by checking the box below.</b><br><br><input type="checkbox"/> <i>By checking this box, I certify that this structure is being built with a raised energy truss or that the full R-value of the ceiling insulation will be maintained over the outside plates.</i> |
| <b>Sloped or Cathedral Ceiling</b>  | <b>R-30</b> (Zone 5 & 6) or <b>38</b> if more than 500 ft sq or 20% of total ceiling area (Zone 6)<br><b>R-24</b> (Thermally Isolated Sunrooms only)  | Write in R-Value  | Check if <input type="checkbox"/> Sunroom   |
| <b>Above Grade Wall<sup>ii</sup> R-value</b>  | <b>R-20</b><br>Cavity Insulation only <i>or</i><br><b>R-13 plus R-5</b><br>Cavity <i>plus</i> Continuous Insulation<br><b>R-13</b> (Thermally Isolated Sunrooms only)   | Write in R-Value  | Log homes must comply with ICC400-2012, have an average minimum wall thickness of 5" or greater with specific gravity of ≤0.5 or 7" with specific gravity >0.5.<br>Check if <input type="checkbox"/> Sunroom <input type="checkbox"/> Log Walls   |
| <b>Door U-Value</b>   | <b>U .35</b> (maximum)  | Write in U-Value  |   |
| <b>Floor R Value</b><br>(Basement ceiling)  | <b>R-30</b><br><i>or</i> Insulation sufficient to fill joist cavity   | Write in R-Value  |   |
| <b>Basement or Crawl Space Wall R Value</b>   | <b>R-13</b> Cavity Insulation <i>or</i><br><b>R-10</b> Continuous Insulation (Zone 5)<br><b>R-19</b> Cavity Insulation <i>or</i><br><b>R-15</b> Continuous Insulation (Zone 6)  | Write in R-Value  | If conditioning the basement you must insulate <b>Basement Walls</b> . If not, you may insulate either <b>Floor</b> or <b>Basement Walls</b> and/or <b>Slab Edge</b>  |
| <b>Slab Edge<sup>iii</sup> R Value</b>  | <b>R-10 2'</b> (Zone 5) <b>4'</b> (Zone 6)<br>(see drawing pg 3)<br><i>add R-5</i> if the Slab is heated or <b>R-15</b> under entire heated slab if a log home.   | Write in R-Value  | Check if <input type="checkbox"/> Heated Slab   |
| <b>Air Sealing</b>  | <b>Planned Air Sealing Test Method</b><br>There are two approaches to demonstrating compliance with air sealing requirements.   | <input type="checkbox"/> Blower Door<br><input type="checkbox"/> Visual Inspect                     | The visual inspection certification must be consistent with the requirements of Table 402.4.2 (page 4) and the method of compliance planned and approved by the local jurisdiction  |

## Footnotes to Residential Energy Code Application for Certification of Compliance

i. Ceilings with attic spaces: R-38 will be deemed to satisfy the requirement for R-49 wherever the full height of uncompressed R-38 insulation extends over the wall top plate at the eaves or the full R-value is maintained. This is accomplished by using a raised heel or energy truss as shown in the diagram below or by using higher R-value insulation over the plates.

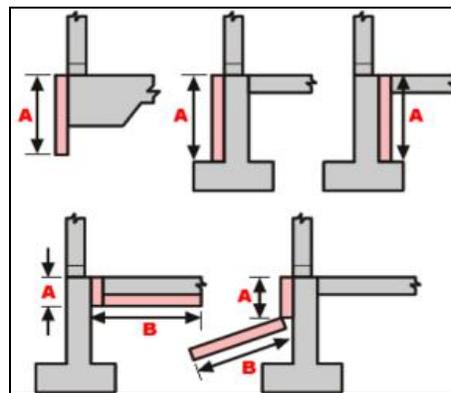


ii. R-13 + R-5 means R-13 cavity insulation plus R-5 insulated sheathing. If structural sheathing covers 25 percent or less of the exterior, R-5 sheathing is not required where the structural sheathing is placed. If structural sheathing covers more than 25 percent of exterior, the structural sheathing must be supplemented with insulated sheathing of at least R-2.

iii. Slab edge insulation must start at the top of the slab edge and extend a total of four feet. Insulation may go straight down, out at an angle away from the building, or along the slab edge and then under the slab. A slab is a concrete floor within 1' of grade level. See diagram below.

The top edge of insulation installed between the exterior wall and the interior slab may be mitered at a 45 degree angle away from the exterior wall.

### Allowable Slab Insulation Configurations



A or A + B must equal four feet

MODULAR HOMES must be certified by the Maine Manufactured Housing Board. Unless the floor insulation is provided by the manufacturer this form must be submitted. This form must also be submitted if the basement is to be insulated or supplementary heated space is added to the home upon or after it is set.

## AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

Required Elements Check List (see page 2 AIR SEALING) IECC 2009 Code section 402.4.2

**This page must be provided to the building inspector at final inspection.**

Third Party Inspector - Name:

Certification No.:

Phone #:

Building Permit Number:

**Check here**

|   |  |
|---|--|
| <b>Air barrier and thermal barrier</b>                            | Exterior thermal envelope insulation for framed walls is installed in substantial contact and continuous alignment with building envelope air barrier.                       |
|   | Breaks or joints in the air barrier are filled or repaired.  |
|   | Air-permeable insulation is not used as a sealing material.  |
|   | Air-permeable insulation is inside of an air barrier.  |
| <b>Ceiling/attic</b>  | Air barrier in any dropped ceiling/soffit is substantially aligned with insulation and any gaps are sealed.  |
|   | Attic access (except unvented attic), knee wall door, or drop down stair is sealed.  |
| <b>Walls</b>  | Corners and headers are insulated.   |
|   | Junction of foundation and sill plate is sealed.   |
| <b>Windows and doors</b>  | Space between window/door jambs and framing is sealed.   |
| <b>Rim joists</b>   | Rim joists are insulated and include an air barrier.   |
| <b>Floors</b><br>(including above-garage and cantilevered floors) | Insulation is installed to maintain permanent contact with underside of sub floor decking.   |
|   | Air barrier is installed at any exposed edge of insulation.  |
| <b>Crawl space walls</b>  | Insulation is permanently attached to walls.   |
|   | Exposed earth in unvented crawl spaces is covered with Class I vapor retarder with overlapping joints taped.   |
| <b>Shafts, penetrations</b>                                       | Duct shafts, utility penetrations, knee walls and flue shafts opening to exterior or unconditioned space are sealed.   |
| <b>Narrow cavities</b>  | Batts in narrow cavities are cut to fit, or narrow cavities are filled by sprayed/blown.   |
| <b>Garage separation</b>  | Air sealing is provided between the garage and conditioned spaces.   |
| <b>Recessed lighting</b>  | Recessed light fixtures are air tight, IC rated, and sealed to drywall. Exception—fixtures in conditioned space.   |
| <b>Plumbing and wiring</b>  | Insulation is placed between outside and pipes. Batt insulation is cut to fit around wiring and plumbing, or sprayed/blown insulation extends behind piping and wiring.      |
| <b>Shower/tub on exterior wall</b>                                | Showers and tubs on exterior walls have insulation and an air barrier separating them from the exterior wall.  |
| <b>Electrical/phone box on exterior walls</b>                     | Air barrier extends behind boxes or air sealed-type boxes are installed.   |
| <b>Common wall</b>  | Air barrier is installed in common wall between dwelling units. HVAC register boots HVAC register boots that penetrate building envelope are sealed to sub-floor or drywall. |
| <b>Fireplace</b>  | Fireplace walls include an air barrier.  |

## MUBEC Residential ENERGY CODE

Summary of Basic Requirements See IECC 2009 Code Book for complete details

**These 2 pages must be provided to the Code Enforcement Officer at final inspection or retained.**

✓ Check here

Certification No.:

|  |  |   |
|--|--|---|
|  | <b>Air Leakage</b><br>Code section 402.4<br><br>The building thermal envelope must be durably sealed to limit infiltration | <p>All joints, seams, penetrations and openings in the thermal envelope including those around window and door assemblies, utility penetrations, dropped ceilings or chases, knee walls, behind tubs and showers, separating unheated garages from the thermal envelope, common walls between dwelling units, attic access, rim joist junction and all other openings in the building envelope that are sources of air leakage must be caulked, gasketed, weather-stripped or otherwise sealed.</p> |
|  | <b>Air Sealing and Insulation</b><br>Code Section 402.4.2  | <p>Building envelope air tightness and insulation installation shall be demonstrated to comply with requirements by Blower Door testing to less than 7 air changes/hr at 50 Pa or a visual inspection per page 4 of this document. The local Building Official may require an independent 3<sup>rd</sup> party to conduct the visual inspection. <u>See page 4.</u></p>   |
|  | <b>Testing Option</b><br>Code Section 402.4.2.1  | <p>Blower Door Test conducted by: _____<br/>Result (at 50 Pa): _____ CFM Interior Volume _____ CF<br/>_____ ACH</p>   |
|  | <b>Visual Option</b><br>Code Section 402.4.2.1   | <p>Structure passes Visual Inspection: _____ signed _____ date</p>  |
|  | <b>Fireplaces</b><br>Code Section 402.4.3  | <p>New wood-burning fireplaces shall have gasketed doors and outdoor combustion air.</p>  |
|  | <b>Recessed Lighting</b><br>Code Section 402.4.5   | <p>Recessed lights must be type IC rated and labeled as meeting ASTM E 283 and sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.</p>   |
|  | <b>Electrical Power and Lighting Systems</b><br>Code section 404   | <p>A minimum of 50% of the lamps in permanently installed lighting fixtures shall be high efficacy lamps.</p>   |
|  | <b>High-Efficacy Lamps</b><br>Code section 202   | <p>Compact fluorescent lamps, T-8 or smaller diameter linear fluorescent lamps, or lamps with a minimum efficacy of:</p> <ol style="list-style-type: none"> <li>1. 60 lumens per watt for lamps over 40 watts,</li> <li>2. 50 lumens per watt for lamps over 15 watts to 40 watts, and</li> <li>3. 40 lumens per watt for lamps 15 watts or less.</li> </ol>  |
|  | <b>Materials and Insulation Information</b><br>Code section 102.1  | <p>Materials and equipment must be identified so that code compliance can be determined. Manufacturer manuals for all installed heating, cooling and service water heating equipment must be provided. Insulation R-values, glazing and door U-values and heating and cooling equipment efficiency must be clearly marked on the building plans, drawings or specifications.</p>  |
|  | <b>Pull-Down Attic Stairs, Attic Hatch, and Knee Wall Doors</b><br>Code section 402.2.3                                    | <p>Should be insulated to a level equal to the surrounding surfaces and tightly sealed and weather-stripped at the opening.</p>   |

|  |  |   |
|--|--|---|
|  | <b>Full size Attic or Basement Entry Doors</b>                             | All doors leading from a conditioned space into an unconditioned attic or enclosed attic or basement stairwell should be insulated and weather-stripped exterior rated door units. One door is exempt.  |
|  | <b>Duct Insulation</b><br>Code section 403.2                               | <b>Supply</b> ducts in attics must be insulated to at least R-8. All other ducts must be insulated to at least R-6. Exception: Ducts or portions thereof located completely inside the building thermal envelope.   |
|  | <b>Duct Construction</b><br>Code sections 403.2.2 & .3                     | Ducts, air handlers, filter boxes, and building cavities used as ducts must be sealed. Joints and seams must comply with Section M1601.4.1 of the <i>International Residential Code</i> . Building framing cavities must not be used as supply ducts.   |
|  | <b>Duct Testing</b><br>Code sections 403.2.2 & .3                          | Duct tightness shall be verified by testing unless the air handler and all ducts are located within the conditioned space. Test conducted by: _____<br><br>Duct test result at 25 Pa: _____ Post construction or _____ Rough-in test  |
|  | <b>Temperature Controls</b><br>Code section 403.1 & .1.1                   | At least one thermostat must be provided for each separate heating and cooling system. Hot air systems must be equipped with a programmable thermostat.<br><br>Heat pumps having supplementary electric-resistance heat must have controls that, except during defrost, prevent supplemental heat operation when the heat pump compressor can meet the heating load   |
|  | <b>Mechanical System Piping Insulation</b><br>Code section 403.3           | Mechanical system piping capable of conveying fluids at temperatures above 105°F or below 55°F must be insulated to R-3.  |
|  | <b>Circulating Hot Water Systems</b><br>Code section 403.4 & NH amendments | Circulating service water systems must include an automatic or readily accessible manual switch that can turn off the hot water circulating pump when the system is not in use.<br><br>Circulating domestic hot water system piping shall be insulated to R-4.  |
|  | <b>Mechanical Ventilation</b><br>Code section 403.5                        | Outdoor air intakes and exhausts must have automatic or gravity dampers that close when the ventilation system is not operating.  |
|  | <b>Equipment Sizing</b><br>Code section 403.6                              | Heating and cooling equipment must be sized in accordance with Section M1401.3 of the <i>International Residential Code</i> .   |
|  | <b>Certificate</b><br>Code section 401.3                                   | A permanent certificate, completed by the builder or registered design professional, must be posted on or in the electrical distribution panel. It must list the R-values of insulation installed in or on the ceiling, walls, foundation, and ducts outside the conditioned spaces; U-factors and SHGC for fenestration. The certificate must also list the type and efficiency of heating, cooling and service water heating equipment. |

Please contact the Code Enforcement office at 207-862-8427 or Code@HampdenMaine.gov with any questions

This document serves to satisfy section 401.3 of the 2009 IECC. A copy of this document must be registered with the Town of Hampden Code Enforcement office. An additional copy MUST be posted in accordance with 2009 IECC . This posting shall be on or in the electrical distribution panel. It shall not cover or obstruct the visibility of the circuit directory label, service disconnect label, or other required labels.