STRETCH CODE COMPLIANCE 780 CMR Appendix 120.AA – Compliance as of January 1, 2011
Town of Hamilton

RESIDENTIAL BUILDINGS
1 & 2 Family-Multi Family, 3 stories or less

Date: _____
Address: _____
Builder: _____ Phone #: _____
Homeowner: _____ Phone #: _____

Please check all applicable:

Alteration, renovations or repairs

- ☐ Proposed work does not affect the building envelope
- ☐ Roof replacement-roof insulation values as specified under current IECC
- ☐ Envelope insulation requirements meet or exceed IECC requirements (table 402.1)
- ☐ Cavities filled with insulation materials which meet or exceed and R-value of 3.5/inch
- ☐ Include specifications and type of material
- ☐ HERS Index rating (Performance option)
- ☐ Work is exempt under 780 CMR 120.AA, exception _____

Additions

- ☐ Energy Star Qualified Homes Thermal Bypass Inspection Checklist
- ☐ Envelope insulation requirements meet or exceed 2009 IECC requirements (table 402.1)
- ☐ HERS index rating option (Performance option)

New Construction

- ☐ HERS index rating (Home Energy Rating System-report must be included)
- ☐ Rating of 65 or less (3000 sf or more)
- ☐ Rating of 70 or less (3000 sf or less)

If utilizing the HERS index rating, please include the information below:
RESNET Certified HERS Rater: (include copy of certification)

Name: _____
Address: _____
_____
Phone #: _____

I, the undersigned, certify knowledge and understanding of the energy conservation requirements as enforced by the Town of Hamilton, and certify that the above information is accurate to the proposed construction.

Building Owner Signature: _____ Date: _____
Contractor Signature: _____ Date: _____

If the work is under design provisions of Sec. 116 780 CMR, Construction Control, the following is required:

Registered Design Professional (multi-family): _____ Date: _____
Registered Design Professional Signature: _____ Date: _____

IECC 2009 Table 402.1.1 Insulation and Fenestration Requirements by Component

Fenestration U-value[5]	Skylight U-value[5]	Ceiling R-value	Walls R-value	Mass Wall R-value	Floor R-value	Basement Wall R-value	Slab R-value/Depth	Crawl Space Wall R-value
.30	.55	**38**	**20** or 13+5[1]	13/17[2]	**30**[3]	10/13[4]	10, 2 feet	10/13[4]

1 - R-13 cavity insulation plus R-5 insulated sheathing
2 – Second R-value applies when more than half the insulation is on the interior of the mass wall.
3 - Or insulation sufficient to fill the cavity, R-19 minimum.
4 – R-10 for continuous insulted sheathing or R-13 cavity insulation at the interior of basement wall.
5 – Per Energy Star program requirements for Residential Doors, Windows, and Skylights – Version 5.

Roofing Work Energy Requirement:

780 CMR 120 AA 101.4.3 Applicability – Exception 4 requires that un-insulated roofs or walls be insulted to Stretch Code requirements when the sheathing is exposed as part of the re-roofing or re-siding of the building.

Energy Certificate Requirement:

IECC Section 401.3 Certificate – A permanent Certificate shall be posted on or in the electrical distribution panel. The certificate shall not cover or obstruct the visibility of the circuit directory label, service disconnect label or other required labels. The certificate shall be completed by the builder or registered design professional. The certificate shall list the predominant R-values of insulation installed in or on ceiling/roof, walls, foundation (slab, basement, wall, crawlspace wall and/or floor) and ducts outside conditioned spaces; U factors for fenestration and the solar heat gain coefficient (SHGC) of fenestration. The certificate shall list the types and efficiencies of heating, cooling, and service water heating equipment.

Summary of the Massachusetts Building Code Appendix 120.AA, 'Stretch' Energy Code

Appendix 120.AA known as the Stretch Code was adopted by the Massachusetts Board of Building Regulations and Standards in May 2009, as an optional appendix to the Massachusetts Building Code 780 CMR.

This optional stretch code was developed in response to the call for improved building energy efficiency in Massachusetts. Towns and cities in the Commonwealth may adopt Appendix 120.AA in place of the energy efficiency requirements of the base building code.

In addition, the base building energy code in Massachusetts will be updated in 2010 to the recently published IECC (International Energy Conservation Code) 2009 energy code. The stretch code is similarly based on the IECC 2009 energy code, but with approximately 20% greater building efficiency requirements, and a move towards 3rd party testing and rating of building energy performance.

For further information on the Massachusetts Stretch Energy Code,
see the Department of Public Safety/Board of Building Regulations website.
www.mass.gov/dps