STRETCH CODE COMPLIANCE - ENERGY CONSERVATION

Effective July 1, 2010, the City of Cambridge has approved the Stretch Energy Code, 780CMR Appendix 115.AA. The requirements are in addition to the requirements of the most recently published edition of the ICC International Energy Conservation Code (IECC).

COMMERCIAL BUILDINGS

INCLUDING RESIDENTIAL, 4 STORY OR MORE

Check all that are applicable to the proposed project:

☐ **New Construction** (see over)

☐ **Proposed Work is a renovation or alteration of an existing building and is exempt from Stretch Code requirements. Project will comply with all current IECC requirements.**

☐ **Proposed Work includes a change to the lighting array or changes to the existing lighting. Project lighting will comply with all current Stretch Code and IECC requirements.**

☐ **Roof Replacement – roof insulation shall meet insulation values as specified in current IECC.**
780 CMR 115AA 101.4.3 Applicability – Exception 4 requires that un-insulated roofs or walls be insulted to the current code requirements when the sheathing is exposed as part of the re-roofing or re-siding of the building.

☐ I declare that the work is **EXEMPT** under 780CMR 115AA Section 101.4.3. Exception #_____

☐ **The following documentation has been submitted with application:**

- ☐ Energy Modeling Report
- ☐ Building Envelope Specifications
- ☐ Lighting Power Density Report (required for any new lighting installation)
- ☐ Equipment, Testing, and Commissioning Schedule

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

Building Owner's Signature _____Date _____

Contractor's Signature _____ Date _____

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

Registered Design Professional _____

Reg. Des. Prof's. Signature _____Date _____

NEW CONSTRUCTION

COMMERCIAL – RESIDENTIAL 4 or MORE STORY

Check all that are applicable to proposed new construction:

□ **Buildings Under 5000 ft^2** – Exempt from Stretch Code Requirements, but must comply with IECC

□ **Buildings 5000 ft^2 – 100,000 ft^2** (including residential buildings of 4 or more stories)
- □ Performance Option (120AA 501.1.1 780 CMR)
  Energy modeling must show a 20% improvement relative to ASHRAE 90.1-2007 Appendix G
- □ Prescriptive Option (120AA 501.1.4 780 CMR)
  Compliant with Ch. 5 IECC, plus Stretch Code requirements plus one of the following -
  - □ More efficient heating and cooling equipment
  - □ More efficient lighting
  - □ Provide at least 3% of the onsite electric load from onsite renewable generation

□ **Buildings Over 100,000 ft^2** (including residential buildings of 4 or more stories)
- □ Performance Option (120AA 501.1.1 780 CMR)
  Energy modeling must show a 20% improvement relative to ASHRAE 90.1-2007 Appendix G

□ **Special case Buildings greater than 40,000 ft^2**
- □ Supermarket □ Warehouse □ Laboratory
  Energy modeling must show a 20% improvement relative to ASHRAE 90.1-2007 Appendix G

□ **Work is Exempt from Stretch Code Requirements** (But must comply with IECC)
- □ Commercial Building less than 5000 ft^2 □ Special Case Building less than 40,000 ft^2

□ **The following documentation has been submitted with application:**
- □ Energy Modeling Report
- □ Building Envelope Specifications
- □ Lighting Power Density Report (required for any new lighting installation)
- □ Equipment, Testing, and Commissioning Schedule

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,
Department of Public Safety/Board of Building Regulations website.
www.mass.gov/dps