ERECTED INTO A TOWNSHIP IN 1733

TOWNSHIP OF WORCESTER

AT THE CENTER POINT OF MONTGOMERY COUNTY

PENNSYLVANIA

1721 Valley Forge Road
P.O. Box 767
Worcester, PA 19490

Phone (610) 584-1410
Fax (610) 584-8901

Cold Weather Concrete Protection Statement

Please fax or submit this document prior to scheduling concrete inspections
Items 1 through 12 must be completed; form must be signed and dated.

1. Address: _____ **2.** Permit number: _____

3. Type of inspection (trench footer, pier, slab, foundation wall, etc…): _____

4. Projected low temperature for date of pour: _____ **5.** Date of pour: _____

6. Contractor responsible for concrete: _____

Concrete Mix: All concrete exposed to freezing during construction ***must be air entrained*** a minimum of 5% and not to exceed 7%. Basement walls, foundation walls, exterior walls and other vertical concrete exposed to weather shall have a minimum compressive strength of 3,000 psi.

7. Design strength of concrete: _____ **8.** Design slump: _____ **9.** High early mix (circle one): Yes / No

10. List any admixtures you will be using: _____

11. Method of concrete protection (circle one): Insulated blankets / Heated enclosure

12. Concrete protection will remain in place for (check one):

_____ 2 Days (minimum) for trenches, piers or other structures not exposed
_____ 3 Days (minimum) for all other structures having exposed surfaces after construction

Concrete Placement: Concrete shall not be poured on or against any frozen surface or where snow, ice or frost is present per ACI 306 Section 4.3.

Concrete Protection: Concrete shall be protected immediately after placement including edges and corners per ACI 306 Table 5.3 using Types I and II cement. Protection time for Type II cement is reduced by one day.

**** Materials for Concrete Protection must be on site at time of inspection (Insulated Blankets/Heated Enclosure)**

Responsible Party: I hereby certify that I have read and understand this form and all information I have given is true and correct. By affixing my signature to this document I also agree to place and protect the concrete being poured in the manner as described above and claim full responsibility for its placement and protection against freezing.

_____ Date: _____ Phone: _____ Fax: _____
Signature of responsible party

Approved by: _____ Conditions: _____

_____

Weather information can be obtained at the National Weather Service website: **www.srh.noaa.gov**

**** This statement is required to be approved prior to placing concrete order ****

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Recommendations Regarding Cold Weather Concrete and Masonry Work

Pouring Concrete in Cold Weather

Some recommendations for cold weather concrete work are:

1. If the ground is frozen no concrete can be poured. Auxiliary heat and or insulation may be necessary to thaw the ground.

2. Do not use excessive amounts of calcium chloride especially if rebar is used. This tends to start corrosion of the rebar and can cause cracking of the concrete later to due alkali-aggregate reaction.

3. Slump should be 4" or less. Excessive water only tends to create the possibility of freezing the concrete faster.

4. Air entrainment should be added.

5. Concrete needs to be insulated from freezing for several days. Concrete blankets are best to but other forms of insulation can work as well.

Source: "Cold Weather Concreting, ACI 306R-88: Reported by the American Concrete Institute Committee 306 be obtained for more detailed information. It is recommended that anyone working with concrete obtain a copy of this for more detailed information.

Masonry Construction in Cold Weather

1. Do not lay masonry units with ice or snow visible on the unit.

2. Do not lay masonry units below 20 degrees without proper precautions.

3. Heat the sand and/or water to between 40 and 120 degrees.

4. When the temperature is below 25 degrees an enclosure and heat source will be needed to maintain temperatures above 32 degrees in the enclosure.

5. Between 25 and 32 degrees completely cover masonry work to weather for 24 hours after construction.

6. This information is not all inclusive.

Source: "ACI 530.1-95/ASCE 6-95/TMS 602-95," Section 1.8C. Cold Weather Construction