



# ***Cold Weather Requirements for Concrete***

**Guidelines as per the  
Ontario Building Code**

**Town of Gravenhurst**

## When is it Required?



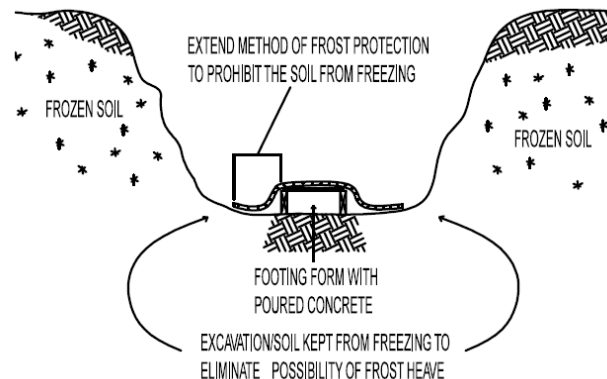
Under the 2012 Ontario Building code, cold weather requirements come into effect when the air temperature is below 5°C. When in effect:

- Concrete shall be kept between not less than 10°C and not more than 25°C while being mixed and placed
- Once poured it shall be maintained at a temperature of not less than 10°C for 72 hours after placing
- It is important to ensure that no frozen material or ice is mixed with concrete or mortar
- Mortar, masonry and any mixing ingredients shall be maintained at a temperature not below 5°C during installation and for not less than 48 hours after installation

## On –Site Considerations

When cold weather requirements are in effect it is important to ensure that:

- Insulated tarps or blankets, hay or other methods are being used to keep undisturbed soil from freezing
- The chosen heating method is extended past the forms to protect the excavation
- If snow and ice had melted in the forms, any outstanding water and organic materials are removed
- When pouring concrete that it is protected from freezing until properly cured (It is recommended to mix concrete with a cold weather additive)
- The top surface of uncompleted masonry exposed to the weather is completely protected by a waterproofing material when construction is not in progress



## At the time of Inspection



When calling for a footing inspection, it is important that the forms and any rebar is substantially completed.

When cold weather requirements are taking place, footing forms shall be protected prior to inspection. At the time of inspection, forms shall be uncovered or easily visible at any location.

An inspector will not approve an inspection if undisturbed soil appears to be frozen, ice is in the forms, or it is not substantially completed. Forms on bedrock shall be kept free of snow and ice.