

## **ITEM 08555.0107 M - FOUNDATION INSULATION**

### **DESCRIPTION:**

This work shall consist of furnishing and installing insulation at locations shown on the contract plans and as directed by the Engineer.

The contractor shall completely set and install designated foundation insulation as detailed or described on the contract plans or proposal.

### **MATERIALS:**

The contractor shall furnish all materials required for the insulation installation.

The insulation shall be expanded or extruded polystyrene manufactured in compliance with ASTM C578, Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation. Acceptable insulation material types are:

Insulation Type Per ASTM C578	Thermal Resistivity per ASTM C578 @ 75_F (23.9_C) ® per Inch or 25.4mm)	Minimum Compressive Resistance (kPa / psi)
Type XII	4.80	104 / 15
Type X	5.00	104 / 15
Type II	4.00	104 / 15
Type IV	5.00	173 / 25
Type IX	4.20	173 / 25
Type VI	5.00	276 / 40
Type VII	5.00	414 / 30
Type V	5.00	690 / 100

Prior to use, the contractor shall store the material:

- M1. In conformance with manufacturer recommendations, or
- M2. Store above grade with a minimum of 75mm air space between bottom of pallet and site grade and covered with a dark weatherproof UV resistant covering.

Whichever is more restrictive.

All insulation materials shall be clearly labeled with ASTM C578, the type number, R-value, and the manufacturer's name or trademark. Any insulation that is not clearly labeled will be rejected and replaced at the contractor's expense.

It is the contractor's responsibility to inspect and unload the material immediately upon delivery. The contractor shall visually inspect all material for defects and gouges. Any material damaged or lost after the contractor's inspection shall be replaced by the contractor at their own expense.

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If a vapor barrier is detailed or called out in the contract documents, the contractor shall include the cost of the vapor barrier in this item.

### **CONSTRUCTION DETAILS:**

The contractor shall install the insulation in accordance with the contract plans and any plan notes that may limit the classification type or the minimum compressive resistance of the insulation.

### **METHOD OF MEASUREMENT:**

Payment will be made by the number of square meters installed. Installation may be shown as horizontally, vertically, or diagonally. The quantity is calculated only once for the actual area placed, not per exposed face of insulation during installation.

### **BASIS OF PAYMENT:**

The unit price bid shall include the cost of all labor, equipment and materials necessary to complete the work.