

## **SECTION 07 21 00**

### **BUILDING INSULATION**

#### **PART 1 - GENERAL**

##### **1.01 DESCRIPTION**

###### A. Work Included:

Blown cellulose building insulation required for this Work is implied or indicated on the Drawings and includes, but is not limited to:

1. Exterior wall insulation;
2. Attic insulation;
3. Air sealing;
4. Miscellaneous insulation.

##### **1.02 PRODUCT HANDLING**

###### A. Protection:

1. Deliver materials to the job site and store in a safe dry place with all labels intact and legible at time of installation.
2. Use all means necessary to protect building insulation materials before, during and after installation and to protect the installed work and materials of all other trades.

###### B. Replacements:

In the event of damage, immediately make all repairs and replacements necessary to the approval of the Architect and at no additional cost to the Owner.

#### **PART 2 - PRODUCTS**

##### **2.01 BUILDING INSULATION**

###### A. General:

Blown in insulation shall be blown cellulose consisting of pulverized newsprint treated infused with borate to comply with CPSC Standard HH-1-515E; 16CFR 1209 and ASTM C739 Class 1/A Building Material. Brand to be **Cel-Pak** by National Fiber with a R-Value of 3.8 per inch or approved equal.

B. Air Sealing and Miscellaneous Insulation:

Provide air sealing and miscellaneous insulation in areas of possible outside air filtration and thermal by-passes not otherwise sealed in attic and wall spaces.

**2.02 Netting**

Netting shall be **InsulWeb** by J&R Products, Inc or substitute as approved by the Architect.

**2.03 OTHER MATERIALS**

All other materials such as fasteners and retainers, not specifically described, but required for a complete and proper installation of building insulation, shall be as selected by the Contractor, subject to the approval of the Architect.

**PART 3 - EXECUTION**

**3.01 SURFACE CONDITIONS**

A. Inspection:

1. Prior to all work of this Section, carefully inspect existing conditions and verify that all such work is complete to the point where this installation may properly commence.
2. Verify that building insulation may be installed in accordance with the original design and the manufacturer's recommendations.

B. Discrepancies:

1. In the event of discrepancy, immediately notify the Architect.
2. Do not proceed with installation in areas of discrepancy until such discrepancies have been fully resolved.

**3.02 INSTALLATION**

A. General:

Except as otherwise specifically directed by the Architect, install all building insulation in accordance with the manufacturer's specifications and the Drawings.

B. Exterior Walls:

1. Installation of spray-applied cellulose is covered by CIMA Technical Bulletin #3, "Standard Practice for the Installation of Sprayed Cellulosic Wall Cavity Insulation."
2. All exterior wall cavities shall be completely filled by the tube method with dense pack cellulose insulation; material shall have a minimum settled density of 3.5 to 4.0 pounds per cubic foot.
3. **Confirm complete installation with thermographic imaging.**

C. Attics:

1. Loose-fill insulation shall be installed in accordance with ASTM Standard C-1015, Standard Practice for Installation of Cellulosic and Mineral Fiber Loose-Fill Thermal Insulation..
2. For attic installation, fill to R-38 as noted on the Drawings.
3. **Provide insulation depth markers per Building Code requirements.**

### 3.03 INSPECTION

Upon completion of the installation, the Architect shall visually inspect each insulated area and verify that all insulation is complete.

### 3.04 CLEANING UP

Upon completion of all work of this Section, promptly remove from the job site all scrap, material, tools, equipment and rubbish leaving all area in a neat and orderly condition to the approval of the Architect

**END - Building Insulation**