

**SECTION 07 21 26
BLOWN INSULATION**

PART 1 GENERAL

1.1 STIPULATIONS

- A. The specifications sections "General Conditions to the Construction Contract", "Special Conditions" and "Division 01 - General Requirements" form a part of this Section by this reference thereto, and shall have the same force and effect as if printed herewith in full.

1.2 SECTION INCLUDES

- A. Attic: Blown insulation pneumatically placed onto attic floor.

1.3 REFERENCE STANDARDS

- A. ASHRAE Std 90.1 I-P - Energy Standard for Buildings Except Low-Rise Residential Buildings Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- B. ASTM C1015 - Standard Practice for Installation of Cellulosic and Mineral Fiber Loose-Fill Thermal Insulation 2017.

1.4 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data on product characteristics, performance criteria, and limitations.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Blown Insulation:
 - 1. CertainTeed Corporation: www.certainteed.com/#sle.
 - 2. Johns Manville: www.jm.com/#sle.
 - 3. Nu-Wool Co., Inc.; www.nuwool.com/#sle.
 - 4. Substitutions: See Section 01 25 00 - Substitution Procedures.

2.2 MATERIALS

- A. Applications: Provide blown insulation in attic as indicated on drawings.
- B. Thermal Resistance [R-value]: Provided minimum values in accordance with applicable edition of ASHRAE Std 90.1 I-P for envelope requirements of building location and climate zone.
- C. Loose Fill Blown-In Cellulose Insulation
 - 1. Attics: Attics throughout shall be insulated with a minimum of R-38 blown-in Nu-Wool Premium cellulose insulation that is pneumatically blown dry into attics in accordance with the requirements of the appropriate UL design number. Density of 1.6 to 3.0 lbs/ft³.

R-value of 3.8/inch. Sufficient insulation shall be placed in attic areas so that the R-value is maintained after initial settlement and throughout the one-year warranty period.

- a. Attics: Attics throughout shall be insulated with blown cellulose insulation in thickness shown on the drawings. Sufficient insulation shall be placed in attic areas so that the R-value is maintained after initial settlement and throughout the one-year warranty period.

D. All blown in cellulose insulation shall be treated moisture, fungi and insect resistant.

2.3 ACCESSORIES

- A. Roof Ventilation Baffles: Prefabricated ventilation channels for placement under roof sheathing with baffles to prevent wind-washing.
 1. Material: Polystyrene foam type, corrugated to provide a minimum of 1" airspace between roof deck and baffle.
 2. Baffles shall be provided in lengths as needed to accommodate the final insulation depth and in widths as needed to accommodate rafter spacing.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that substrate and adjacent materials are dry and ready to receive insulation.

3.2 INSTALLATION

- A. Install insulation and ventilation baffle in accordance with ASTM C1015 and manufacturer's instructions.
- B. Place insulation against baffles, and do not impede natural attic ventilation to soffit.
- C. Completely fill intended spaces leaving no gaps or voids.
- D. Installation of Loose-Fill Blown-In Insulation:
 1. Attics:
 - a. Do not install blown-in cellulose insulation until all insulation baffles, draftstops, protective rigid insulation boxes around light fixture housings, vents and heat sources are permanently installed and perimeter of attic accesses are extended with rigid insulation.
 - b. Insulation shall be installed evenly to provide full thickness and R-value specified, filling miscellaneous voids and cavity spaces. Install measuring tape strips in quantities of 1 for every 250 SF at locations throughout attic to verify thickness.

3.3 CLEANING

- A. Remove loose insulation residue.

END OF SECTION