

NATURAL RESOURCES CONSERVATION SERVICE  
CONSERVATION PRACTICE SPECIFICATION

**672B – BUILDING ENVELOPE IMPROVEMENT,  
INSULATION**

**I. SCOPE**

The work will consist of furnishing and installing materials as required to reduce heat transfer and energy use for heating, and/or cooling as shown on the drawings.

3. Site specific construction and installation drawings and specifications; and
4. Procedures for Operation and Maintenance.

**II. INSTALLATION**

Insulation will be installed either by blow in, rolls or batts or rigid foam boards, based on the space and design.

All manufacturer's and testing lab installation instructions shall be followed during installation. All insulation shall be installed so as not to void manufacturer's warranties.

The amount of insulation shall be measured to determine whether it will deliver the required energy use reduction.

**III. MATERIALS**

Materials shall be selected based upon recommendations from an approved ASABE S612 Type 2 Energy Audit for the major activity building envelop.

Materials that are commonly used in these types of systems shall be selected for use.

**IV. SUBMITTALS**

The following items are to be submitted for review and approval prior to installation of the insulation:

1. Equipment and Materials list;
2. Warranty documentation

**V. COMPONENTS**

All materials will be fire resistant as required by local building codes. Insulation will be protected from rodents and physical damage with surface coverings as necessary.

**Blow In.** Area to be insulated to be sealed from the outside and heated/cooled areas to help insure insulation integrity. Adequate space must be maintained along edges to ensure planned depth can be maintained. Baffles will be installed or maintained along eaves to maintain air flow. Blower machine will be able to break up and distribute insulation as designed. Depth of application will be even and uniform.

**Rolls or Batt's.** Fiberglass rolls or batts will be installed according to the insulation plan. Facings will be installed towards living area where required.

**Rigid Foam.** Expanded foam board will be used as shown in the design. Installation and fasteners will be according to the manufacturer recommendations.

## **VI. SPECIAL MEASURES**

All insulation will be protected from moisture and condemnation from outside sources in order to maintain insulation R value.

## **VII. CONSTRUCTION OPERATIONS**

The owner, operator, Contractor or other persons will conduct all work and operations in accordance with proper safety codes for the type of construction being performed with due regards to the safety of all persons and property.

The completed job shall be workmanlike and present a good appearance.

## **VIII. BASIS OF ACCEPTANCE**

The acceptability of the insulation shall be determined by inspection to check:

- Appropriate submittals are provided.
- The ability of the system to deliver the required energy use reduction.
- Submittals are reviewed and approved by NRCS prior to installation of practice measures, and
- All required certifications are provided.
  - The Installer shall certify the installation complies with the requirements of the installation instructions provided by the manufacturer.
- Component warranties are provided.

A written guarantee shall be furnished that protects the owner against defective workmanship and materials for not less than 1 year, and includes the names of the manufacturers of the equipment.

Acceptability of any associated conservation practices shall be in accordance with the appropriate NRCS Conservation Practice Specification.