Click on the “pilcrow” ¶ in the MS Word Toolbar to toggle ROCKWOOL™ GUIDE NOTES on and off. Delete this text before incorporating the section into a Project Manual.

1 GENERAL

1.1 SUMMARY OF WORK

A. This Section specifies mineral fiber batt and blanket thermal insulation for steel stud wall applications.

1.2 RELATED REQUIREMENTS

A. Section [______].

1.3 REFERENCE STANDARDS

A. ASTM International (ASTM).

B. US Green Building Council (USGBC).

1.4 ADMINISTRATIVE REQUIREMENTS

A. Co-ordination: Co-ordinate work of this Section with roofing or deck work and with work of other trades for proper time and sequence to avoid construction delays.

B. Pre-installation Meeting: Convene pre-installation meeting after Award of Contract and [one week] before starting work of this Section to verify project requirements, substrate conditions and coordination with other building sub-trades, and to review manufacturer’s written installation instructions.
   1. Comply with Section 01 31 19 - Project Meetings and co-ordinate with other similar pre-installation meetings.
   2. Notify attendees 2 weeks prior to meeting and ensure meeting attendees include as minimum:
      a. Owner;
      b. Consultant;
      c. [Roofing] [Deck] Subcontractor;
      d. Manufacturer’s Technical Representative.

3. Ensure meeting agenda includes review of methods and procedures related to insulation installation including co-ordination with related work.

4. Record meeting proceedings including corrective measures and other actions required to ensure successful completion of work and distribute to each attendee within 1 week of meeting.

1.5 ACTION AND INFORMATIONAL SUBMITTALS

A. Make submittals in accordance with Contract Conditions and Section 01 33 00 - Submittal Procedures.

B. Product Data: Submit product data including manufacturer’s literature for insulation materials and accessories, indicating compliance with specified requirements and material characteristics.
   1. Submit list on insulation manufacturer’s letterhead of materials and accessories to be incorporated into Work.
   2. MSDS report.
   3. Include product name.
   4. Include preparation instructions and recommendations, installation methods, and storage and handling requirements.
5. Include contact information for manufacturer and their representative for this Project.

C. Samples:
   1. Submit [5.5 x 7.5] inches minimum sample of insulation in thickness used on Project.

D. Test Reports:
   1. Submit evaluation service reports or other independent testing agency reports showing compliance with specified performance characteristics and physical properties.

E. Field Reports: Submit manufacturer’s field reports within 3 days of each manufacturer representative’s site visit and inspection.

F. Sustainable Design (LEED):
   1. LEED Submittals: In accordance with Section [01 35 21 – LEED Requirements]
   2. Submit verification for items as follow:
      a. EA Credit 1: Thermal value of insulation contributing to overall energy performance of building.
      b. MR Credits 4: Recycled content of insulation indicating percentages by weight of preconsumer and postconsumer recycled content.
      c. MR Credits 5: Verify location where insulation is extracted, processed and manufactured.

G. Insulation Installer Qualifications:
   1. Submit letter verifying insulation installer’s experience with work similar to work of this Section.

1.6 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: Supply maintenance data for insulation materials for incorporation into manual specified in Section 01 78 00 - Closeout Submittals.
B. Sustainable Design Closeout Documentation (LEED):
   1. Provide calculations on end-of-project recycling rates, salvage rates, and landfill rates for work of this Section demonstrating percentage of construction wastes which were recycled.
   2. Submit verification from recycling facility showing receipt of materials.

C. Record Documentation: In accordance with Section 01 78 00 - Closeout Submittals.
   1. List materials used in insulation work.
   2. Warranty: Submit warranty documents specified.

1.7 QUALITY ASSURANCE

A. Batt and Blanket Insulator Quality Assurance: Work experience of [5] years minimum with work similar to work of this Section.
B. Sustainability Standards Certification (LEED):
   1. LEED submittals: In accordance with Section 01 35 21 - LEED Requirements.

1.8 DELIVERY STORAGE AND HANDLING

A. Delivery and Acceptance Requirements:
   1. Deliver material in accordance with Section 01 61 00 - Common Product Requirements.
   2. Deliver materials and accessories in insulation manufacture’s original packaging with identification labels intact and in sizes to suit project.
   3. Ensure insulation materials are not exposed to moisture during delivery.
   4. Replace wet or damaged insulation materials.

B. Storage and Handling Requirements: Store materials off ground in dry location and protected from exposure to harmful weather conditions and at temperature conditions recommended by manufacturer.
   1. Store in original packaging until installed.

C. Packaging Waste Management:
1. Separate and recycle waste packaging materials in accordance with Section 01 74 19 - Construction Waste Management and Disposal.
2. Remove waste packaging materials from site and dispose of packaging materials at appropriate recycling facilities.
3. Collect and separate for disposal paper and plastic material in appropriate on-site storage containers for recycling [in accordance with Waste Management Plan].

1.9 WARRANTY
A. Project Warranty: Refer to Contract Conditions for project warranty provisions.
B. Manufacturer’s warranty: Submit, for Owner’s acceptance, manufacturer’s standard warranty document executed by authorized company official. Manufacturer’s warranty is in addition to and not intended to limit other rights Owner may have under Contract Conditions.
C. Warranty period: [1] years commencing on Date of Substantial Performance of Work.

2 PRODUCTS
2.1 MANUFACTURER
1. Manufacturer: ROCKWOOL™, 4594 Cayce Road, Byhalia, MS 38611-7550, Phone: 905-878-8474, Toll Free: 1-800-265-6878, e-mail: contactus@rockwool.com, URL: www.rockwool.com.

2.2 DESCRIPTION
A. Non-combustible, lightweight, semi-rigid mineral wool batt insulation to ASTM C655, Type 1.

2.3 PERFORMANCE CRITERIA
A. Batt Insulation for exterior stud walls: To ASTM C665, Type 1.
1. Fire performance:
   b. Surface Burning Characteristics: To ASTM E84.
      1) Flame spread: 0.
      2) Smoke developed: 0.
   2. Thermal resistance: To ASTM C518.
   4. Recycled content: [40] [16] % minimum.

2.4 MATERIALS
A. Non-combustible, lightweight, semi-rigid mineral wool batt insulation to ASTM C665, Type 1.
3. R value/1 inch at 75 °F: 4.0 h ft² °F/Btu.

2.5 ACCESSORIES
A. Mechanical fasteners in accordance with insulation manufacturer’s written recommendations.

2.6 SOURCE QUALITY CONTROL
A. Ensure insulation components and accessories are supplied or approved in writing by single manufacturer.
2.7 PRODUCT SUBSTITUTIONS

A. Substitutions: [In accordance with Section 01 23 13 - Product Substitution Procedures] [No substitutions permitted].

3 EXECUTION

3.1 INSTALLERS

A. Use only installers with [5] years minimum experience with work similar to work of this Section.

3.2 EXAMINATION

A. Verification of Conditions: Verify that conditions of substrate previously installed under other Sections or Contracts are acceptable for insulation installation in accordance with manufacturer’s written recommendations.
   1. Visually inspect substrate in presence of Consultant.
   2. Ensure surfaces are free of snow, ice, frost, grease and other deleterious materials.
   3. Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from Consultant.

B. Start of insulation installation indicates installer’s acceptance of substrate installation conditions.

3.3 INSTALLATION

A. Install insulation in accordance with manufacturer’s written recommendations.

B. Install insulation to maintain continuity of thermal protection to building elements and spaces.

C. Do not compress insulation to fit into spaces.

D. Fit insulation closely around electrical boxes, pipes, ducts, frames and other objects in or passing through insulation.

E. Keep insulation minimum [3] inches from heat emitting devices such as recessed light fixtures, and minimum [2] inches from sidewalls of chimneys and vents.

F. Do not enclose insulation until before inspection and receipt of Consultant’s written approval.

3.4 FIELD QUALITY CONTROL

A. Field Inspection: Coordinate field inspection in accordance with Section [01 45 00 - Quality Control].

B. Manufacturer’s Services:
   1. Coordinate manufacturer’s services with Section [01 45 00 - Quality Control].
      a. Arrange for payment for manufacturer’s services.
      b. Have manufacturer review work involved in handling, installation, protection, and cleaning of insulation and accessories, and submit written reports in acceptable format to verify compliance of Work with Contract conditions.
   2. Manufacturer’s Field Services: Provide manufacturer’s field services consisting of product use recommendations and periodic site visits for product installation review in accordance with manufacturer’s instructions.
      a. Report any inconsistencies from manufacturer’s recommendations immediately to Consultant.
   3. Schedule site visits to review work at stages listed:
      a. After delivery and storage of drainage sheet and accessories, and when preparatory work on which Work of this Section depends is complete, but before installation begins.
      b. Twice during progress of work at 25% and 60% complete.
      c. Upon completion of Work, after cleaning is carried out.
      d. Obtain reports within three days of review and submit immediately to Consultant.

3.5 CLEANING
A. Progress Cleaning: Perform cleanup as work progresses [in accordance with Section 01 74 00 - Cleaning and Waste Management].
   1. Leave work area clean at end of each day.

B. Final Cleaning: Upon completion, remove surplus materials, rubbish, tools, and equipment [in accordance with Section 01 74 00 – Cleaning and Waste Management].

C. Waste Management:
   2. Collect recyclable waste and dispose of or recycle field generated construction waste created during construction or final cleaning related to work of this Section.
   3. Remove recycling containers and bins from site and dispose of materials at appropriate facility.

3.6 PROTECTION

A. Protect installed products and accessories from damage during construction.

B. Repair damage to adjacent materials caused by insulation installation.

END OF SECTION 07 2116 – BLANKET (AND BATT) INSULATION (COMFORTBATT®)