SECTION 07213
BATT INSULATION

PART 1   GENERAL

1.1  RELATED DOCUMENTS

A. The provisions of the general Conditions, Supplementary Conditions, and the Sections included under Division 1, General Requirements, are included as a part of this Section.

1.2  SECTION INCLUDES:

A. Batt insulation and vapor retarder in exterior wall and ceiling, roof construction.
B. Batt insulation for filling perimeter window and door shim spaces and crevices in exterior wall and roof.
C. Acoustical batt insulation for interior partitions.

1.3  REFERENCES

A. ASTM E96 – Test Method for Water Vapor Transmission of Materials
G. NFPA 255 - Test of Surface Burning Characteristics of Building Materials
H. UL 723 - Test for Surface Burning Characteristics of Building Materials.
I. Florida Building Code.

1.4  PERFORMANCE REQUIREMENTS

A. Materials of this Section: Provide continuity of thermal barrier at building enclosure elements.

1.5  SUBMITTALS

A. Submit under provisions of Section 01300.
B. Product Data: Provide data on product characteristics, performance criteria and limitations.
C. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.

1.6  COORDINATION

A. Coordinate work with other trades.
B. Coordinate the work for the installation of the vapor barrier.

PART 2   PRODUCTS
2.1 MATERIALS

A. Thermal Batt Insulation: ASTM C665; faced glass fiber thermal insulation. Thermal Resistant in accordance with ASTM C518, R-Value for insulation only as indicated on drawings.
   1. FRK (foil), Type III, Class A.
   2. PSK (white), Type II, Class A.
   3. Vapor Retarder Perm Rating:
   4. FRK facing Perms Maximum 0.10
   5. PSK facing Perms Maximum 0.10
   6. Surfacing Burning Characteristics for both FRK and PSK faced product:
   7. Maximum Flame Spread: 25
   8. Maximum Smoke Developed: 50
   10. Dimensional Stability: Linear Shrinkage less than 0.1%.

B. Acoustical Batt Insulation: ASTM C665; un-faced glass fiber acoustical insulation. Install as shown on the drawings.
   1. Type I.
   2. Surfacing Burning Characteristics:
      a. Maximum Flame Spread: 10
      b. Maximum Smoke Developed: 10
   5. Dimensional Stability: Linear Shrinkage less than 0.1%.

2.2 ACCESSORIES

A. Steel wire: electroplated; type and size to suit application.
B. Tape: Polyethylene self-adhering type, mesh reinforced.
C. Insulation Fasteners: Steel impale spindle and clip on flat metal base, self-adhering backing, length to suit insulation thickness, capable of securely and rigidly fastening insulation in place.
D. Wire Mesh: Galvanized steel, hexagonal wire mesh.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify site conditions for readiness of installation.
B. Verify that substrate, adjacent materials, and insulation are dry and ready to receive insulation.

3.2 INSTALLATION

A. Install insulation in accordance with insulation manufacturer's instructions.
B. Install in exterior walls, roof and ceiling spaces without gaps or voids. Do not compress insulation.
C. Trim insulation neatly to fit spaces. Insulate miscellaneous gaps and voids.
D. Fit insulation tight in spaces and tight to exterior side of mechanical and electrical services within the plane of insulation.
E. Install with factory applied membrane facing exterior side of building spaces. Lap the ends and side flanges of membrane over framing members.
F. Retain in place with wire mesh secured to framing members.
G. Tape seal butt ends, lapped flanges, and tears or cuts in membrane.
H. Metal Framing: Place vapor retarder on exterior side of insulation; lap and seal sheet retarder joints over membrane face.

END OF SECTION