PART 1 - GENERAL

1.01 SCOPE OF WORK

.1 Work of this Section shall be performed in accordance with the requirements of the Contract Documents, including but not limited to Instructions to Bidders, Agreement and General Conditions and General Requirements.

.2 Extent of insulation work is shown on drawings and indicated by provisions of this section.

.3 Applications of insulation specified in this section include the following:

.1 Board-type building insulation, concealed.
.2 Fiberglass batt insulation

1.02 QUALITY ASSURANCE

.1 Thermal Conductivity: Thicknesses indicated are for thermal conductivity (k-value at 75E F or 24EC) specified for each material. Provide adjusted thicknesses as directed for equivalent use of material having a different thermal conductivity. Where insulation is identified by "R" value, provide thickness to achieve indicated value.

.2 Fire and Insurance Ratings: Comply with fire-resistance, flammability and insurance ratings indicated, and comply with regulations as interpreted by governing authorities.

.3 Federal Specifications: Where compliance with FS standard is indicated, specified requirements for marking individual boards/batts/blankets are waived, provided packages of units are labeled to show compliances.

1.03 PRODUCT HANDLING

.1 Protection for plastic insulation: Do not expose to sunlight, except to extent necessary for period of installation and concealment.

.2 Protect against ignition at all times. Do not deliver plastic insulating materials to project site ahead of installation time. Complete installation and concealment of plastic materials as rapidly as possible in each area of work.

.3 Deliver insulation to Project in unopened packages. Store in dry location prior to installation. All insulation that has been wetted shall be rejected.

1.04 SUBMITTALS

.1 Submit manufacturer's data for approval in accordance with Section 01300, Submittals. Approval must be obtained prior to delivery for all types of insulation.

PART 2 - PRODUCTS

2.01 BOARD TYPE BUILDING INSULATION - CONCEALED

.1 Molded Polystyrene Board Insulation (MpsBd-Ins): Closed-cell, expanded polystyrene beads molded into rigid boards, complying with FS HH-I-524, Type I, 10 psi compressive strength; 4.0% maximum water absorption; k-value of 0.278, 5.0 perm-inch max. Water vapor transmission; manufacturer=s standard lengths and widths.

.2 Manufacturer: Subject to compliance with requirements, provide products of one of the following:

.1 Allied Foam Products, Inc.,; Gainsville, GA
Arizona Diversified Prod., Inc.; Phoenix, AZ
Grace Const.Products Div.; Cambridge, MA
Insulation Corp., of America: Allentown, PA
Poly-foam, Inc.: Lester Prairie, MN
Toyad Corps: Latrobe, PA
United State Mineral Prod. Co., Stanhope, NJ

2.02 FIBERGLASS BATT INSULATION

.1 Manufacturers:
Owens Corning;
Certainteed;
Dow .

.1 Batt Insulation - Fiberglass batt insulation conforming to Federal Specification HH-I-521C, Type 1, Class B, thickness as required to acquire following values:

.1 Horizontal insulation: R-38, 12" reinforced foil faced (or poly vapor barrier) fiberglass batt.
.2 Vertical Insulation: R-19, 5-1/2" reinforced foil faced (or poly vapor barrier) fiberglass batt.
.3 Sill Sealer: 1" thick fiberglass.
.4 Sound Attenuating Batt Insulation: 3-1/2" thick unfaced batt insulation.

PART 3 - EXECUTION

3.01 INSTALLATION

1 Comply with manufacturer's instructions for particular conditions of installation in each case. If printed instructions are not available or do not apply to project conditions, consult manufacturer's technical representative for specific recommendations before proceeding with work.

.2 Extend insulation full thickness as shown over entire area to be insulated. Cut and fit tightly around obstructions, and fill voids with insulation. Remove projections which interfere with placement.

3.02 GENERAL BUILDING INSULATION

.1 Apply insulation units to substrate by method indicated, complying with manufacturer's recommendations. If no specific method is indicated, bond units to substrate with adhesive or use mechanical anchorage to provide permanent placement and support of units.

.2 Set vapor barrier faced units with vapor barrier to warm side of construction, except as otherwise shown. Do not obstruct ventilation spaces, except for fire-stopping.

.1 Tape joints and ruptures in vapor barriers, and seal each continuous area of insulation to surrounding construction to ensure vapor-tight installation.

3.02 PROTECTION

.1 General: Protect installed insulation and vapor barriers from harmful weather exposures and form possible physical abuses where possible by non-delayed installation of concealing work or, where that is not possible, by temporary covering or enclosure. Installer shall advise Contractor of exposure hazards, including possible sources of deterioration and fire hazards.

2 Batt insulation shall be installed where shown on drawings and in accordance with manufacturer's recommendations with vapor barrier installed on the warm side of structure. Tape all seams.

END OF SECTION 07200