

## **SECTION 07200: BUILDING AND ACOUSTICAL INSULATION**

### **PART 1: GENERAL**

#### **1.01 RELATED DOCUMENTS**

Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.

#### **1.02 DESCRIPTION OF WORK**

- A. Work Included in This Section: Provision and installation of all thermal and acoustical insulation.

#### **1.03 SUBMITTALS**

Submittals shall be in accordance with SUBMITTALS Section and shall include the following:

- A. Complete list of materials with name of manufacturer.
- B. Samples of insulation, when requested by Architect.

### **PART 2: PRODUCTS**

#### **2.01 BUILDING BATT INSULATION**

- A. General Requirements: All building batt insulation shall be fiberglass batts unless noted otherwise. Batts shall be unfaced, kraft faced, or FSK faced as indicated. Insulation shall be products of Owens/Corning Fiberglass, Johns-Manville, or equal. All insulation delivered to the project shall be in original packaging indicating manufacturer, insulation type and "R" value.
  - 1. All new 6" interior stud walls shall be insulated to a minimum value of R-19, unfaced, unless specifically noted otherwise.

#### **2.02 ACCESSORIES**

All other materials such as wire supports, fasteners and retainers not specifically described but required to complete the work, shall be as recommended by approved manufacturer, provided and installed by the Contractor.

## **PART 3: EXECUTION**

### **3.01 INSTALLATION**

General Requirements: Except as otherwise specifically noted or as directed by the Architect, install all building insulation in accordance with the manufacturer's recommendations and governing codes.

- A. Insulation shall fit all framing spaces, including areas between joists and outside headers, behind electrical outlets and piping and other areas, to form a complete insulating blanket around the heated or cooled areas of the structure.
- B. Flanged blankets shall be positioned and recessed as specified by the manufacturer for the particular use, and vapor barriers shall be on the inside, (heated side in winter) of the insulation blanket.
- C. Insulation should not be installed over or within 3" of recessed fixtures containing lights, fans, or other heat-generating electrical devices, or as required by applicable governing codes. Baffles shall be used where required to maintain these clearances. IC rated light fixtures may be covered with insulation.
- D. Rigid insulation boards shall be mechanically attached to metal stud framing using corrosion-resistant star drive fasteners appropriate to the gauge thickness of the framing members in accordance with the manufacturer's instructions. Pre-drill metal studs as required.

### **3.02 ADJUST AND CLEAN**

Inspect completed installation and verify that all insulation is complete and properly installed, and remove all debris from the site.

*End Of Section 07200*

## **SECTION 07900: SEALANTS & CAULKING**

### **PART 1: GENERAL**

#### **1.01 DESCRIPTION OF WORK**

- A. Work Included in This Section: Provision and installation of all caulking sealants, and other materials to provide a completely waterproof building unit. Where materials are not specifically designated Type 2 shall be considered the minimum acceptable. At any location where standing or flowing water can abut the building, Type 1 shall be considered the minimum acceptable. At locations adjacent to storefront materials, Type 3 in matching color to that present shall be considered the minimum acceptable.

#### **1.02 INCORPORATED DOCUMENTS**

The provisions and requirements of the General and Supplementary Conditions and Division-1 Specifications sections of these Bid Documents apply to this section. The Contractor shall be responsible for, and governed by all requirements thereunder.

In addition to the Codes and Standards listed in Section 01000, the published specifications, standards and methods of the trade cited below shall apply to work of this Section.

#### **1.03 SUBMITTALS**

Samples, including color selections, manufacturer's literature describing recommendations for use of cleaners, primers, joint preparation, etc. when requested by the Architect.

#### **1.04 JOB CONDITIONS**

- A. Environmental Requirements: Apply materials only when surface and ambient temperatures fall within manufacturer's recommended ranges.
- B. Protection: Mask off adjacent surfaces where required and remove protection upon completion. Be responsible for damage to adjacent materials caused by sealant operations.
- C. Scheduling: Install or apply only after final installations are complete and concrete has cured.

#### **1.05 GUARANTEE**

Guarantee for this work shall be extended to a two-year period.

## **PART 2: PRODUCTS**

### **2.01 MATERIALS**

Sealant systems shall be compatible with contacting surfaces, membranes, pre-moulded joint fillers, liquid waterproofing systems, and shall not stain adjacent exposed surfaces. Color range shall permit matching sealants to color of contacting surfaces when applicable. All caulks/sealants shall carry a minimum 15 year warranted material life.

- A. Type 1: Acrylic Latex Caulk, one part, non-sag. Pecora AC-20, Sonneborn Sonolac, Tremco, or equal.
- B. Type 2: Butyl-Rubber Sealant, one part. Same as Pecora BC-158, Tremco Butyl Sealant, or approved equal, complying with Fed. Spec. TT-S-001657, Type 1.
- C. Type 3: Silicone Sealant, one part, silicone rubber sealant, Shore A Hardness of 35. Same as General Electric Corp.'s Silicone Construction Sealant Series "SCS-1200", Sonneborn's Sonolastic, Dow Corning's 795, or approved equal, complying with Fed. Spec. TT-S-001543.
- D. Type 4: Polyurethane Sealant, one part elastomeric polyurethane sealant, non-sag, complying with Fed. Spec. TT-S-0027E and ASTM C-920. Pecora Dynatrol I, Tremco Dymonic, Sonneborn Sonolastic NPI, or approved equal.
- E. Type 5: Preformed Compression Seal, compartmented neoprene extrusions conforming to AASHO M-220-67 complete with required adhesive as suited to installation requirements.
- F. Type 6: Tapes, neoprene and vinyl extrusions and others as required, noted, or recommended by approved manufacturer.
- G. Primers, Sealers, Surface Conditioners, Solvents, etc. Same as recommended by manufacturer of approved sealant material for each substrate. Solvents shall be residue free.
- H. Back-Up Materials, Fillers, Joint Packing, etc.: Nonstaining closed-cell flexible foam or sponge as recommended by manufacturer of approved sealant.
- I. Release Material: Polyethylene film, masking tape, etc.
- J. Cleaning Materials: Non-staining and non-injurious to exposed surfaces including proprietary cleaners recommended by approved sealant manufacturer.

## **2.02 MIXING**

Multi-Component Sealants shall be mixed at job site with suitable power-operated equipment and ensure components are mixed using identical batch control numbers, all in accordance with manufacturer's instructions.

## **PART 3: EXECUTION**

### **3.01 INSPECTION**

Inspect and verify that faces are free from bituminous materials, release agents, bond breakers, deleterious curing compounds, water repellents, rust, mill scale, coating, oil, grease, other protective materials, and are properly cured, cleaned, prepared and all other conditions are correct. Do not start application until unsatisfactory conditions have been corrected.

### **3.02 PREPARATION**

Preparation of surfaces to receive sealants shall be as required by neat trade standards and meet requirements of manufacturer's standards, instruction and directions.

- A. Remove moisture, frost, verify proper surface and ambient temperatures, insure primers do not stain exposed materials or deteriorate back-up material, prime and seal, all in accordance with manufacturer's recommendations.

### **3.03 APPLICATION**

Apply in strict accordance with manufacturer's procedures. Do not obstruct weep systems, and assure release materials between back-up material and sealant will confine sealant adhesion to surfaces joined, except at polyethylene back-up.

- A. Bonding Surface Depths: For Polysulfide and Polyurethane sealants typical joint depth shall normally be one-half the width of the joint, but a maximum of 1/2" depth and a minimum of 1/4" depth. Manufacturer's recommendations shall be followed.
- B. Release Materials: Use material between back-up material and sealant at joints subject to movement and over support backing at traffic bearing joints.
- C. Tooling: Use tooling agent recommended by sealant manufacturer, neatly tool joints to compress material, improve adhesion and achieve a slightly concave surface. Repair air pockets by tooling. Use masking tape as required to facilitate tooling and protection of adjacent surfaces. Remove tape upon completion.

**3.04 PATCH AND REPAIR**

Patch, repair and replace defective or damaged sealants as directed by the Architect and be responsible for damage to adjacent surfaces.

**3.05 CLEANING**

Clean adjacent surfaces soiled in applying sealants in accordance with sealant manufacturer's recommendations. Do not use cleaning agents unless specifically recommended by manufacturer and demonstration on a mock-up of material to be cleaned has been inspected and approved by the Architect.

*End Of Section 07900*