

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

SECTION 07210 - BUILDING INSULATION

PART 1 - GENERAL

1.01 SUMMARY

- A. Provide building insulation and vapor retarders:
 - 1. Thermal insulation in exterior cavity walls, board type.
 - 2. Thermal insulation in masonry cells, loose fill type.
 - 3. Thermal insulation over heated spaces, blanket type.
 - 4. Sheet vapor retarders.

1.02 SUBMITTALS

- A. Submit for approval product data, test reports.

1.03 QUALITY ASSURANCE

- A. Comply with governing codes and regulations. Provide products of acceptable manufacturers which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Board Insulation:
 - 1. Type: Extruded polystyrene, rigid, ASTM C 578.
- B. Blanket/Batt Insulation:
 - 1. Type: Glass fiber or mineral slag fiber, ASTM C 665, Type III (foil-scrim-kraft vapor-retarder membrane).

C. Loose Fill Insulation:

1. Type: Loose granular perlite, ASTM C 549, Type II.

D. Vapor Retarder (Not Integral with Insulation): at all gypsum board ceilings.

1. Type: Polyethylene, ASTM D 4397, 6 mils, 0.13 perm vapor transmission rating.

E. Accessories:

1. Adhesives and mechanical anchors and clips.
2. Crack sealers and tapes.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials and systems in proper relation with adjacent construction. Coordinate with work of other sections. Provide full thickness in one layer over entire area, tightly fitting around penetrations.
- B. Pour loose insulation into C.M.U. at all exterior wall cavities; provide uniform coverage at correct density and thickness.
- C. Install vapor retarder over entire area of inside face of gypsum board ceilings. Seal all seams and around perimeter and penetrations with duct tape to form a continuous vapor retarder free of holes.
- D. Protect installed insulation and vapor retarder.

***** END OF SECTION 0720 – BUILDING
INSULATION *****

SECTION 07411 - MANUFACTURED ROOF PANELS

PART 1 - GENERAL

1.01 SUMMARY

- A. Provide manufactured roof panels:
 - 1. Standing seam roof panels with lapped seams.

1.02 SUBMITTALS

- A. Submit for approval samples, shop drawings, product data.

1.03 QUALITY ASSURANCE

- A. Comply with governing codes and regulations. Provide products of acceptable manufacturers which

have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.

- B. Wind Uplift: UL 580 for Class 90 wind uplift resistance.

1.04 WARRANTY

- A. Finish Warranty: 20 years.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Manufacturers: A.E.P. Span.
- B. Manufactured Roof Panels: A.E.P. Span, "Snap-seam" System
 - 1. Sheet Materials: Galvanized steel sheet, ASTM A 525 or ASTM A 526, G90 coating, 24 gage (.0239 inch).

Panel Width: 24".
Seam Height: 1-3/4".
 - 2. Finish: Fluoropolymer, Kynar 500.
- C. Panel Supports: 5/8" Plywood (refer to Section 06105 - Miscellaneous Carpentry)
- D. Accessories:
 - 1. Galvanized clips as required.
 - 2. Galvanized fasteners as required.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials and systems in proper relation with adjacent construction and with uniform appearance. Coordinate with work of other sections.
- B. Restore damaged components and finishes. Clean and protect work from damage.

***** END OF SECTION 07411 – MANUFACTURED ROOF PANELS *****

SECTION 07901 - JOINT SEALANTS

PART 1 - GENERAL

1.01 SUMMARY

- A. Provide joint sealers at interior and exterior vertical and horizontal joints.

1.02 SUBMITTALS

- A. Submit for approval samples, product data.

1.03 QUALITY ASSURANCE

- A. Comply with governing codes and regulations. Provide products of acceptable manufacturers which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Urethane Elastomeric Joint Sealants:

1. Manufacturers: Pecora Corp., Sika Corp., Tremco or approved equal.
2. Type and Application: One-part nonsag urethane sealant, ASTM C 920, for joints in vertical and horizontal surfaces, exterior use.

B. Silicone Elastomeric Joint Sealants:

1. Manufacturers: Dow Corning, General Electric, Tremco or approved equal.
2. Type and Application: One-part nonacid-curing silicone sealant, ASTM C 920, for joints in vertical and horizontal surfaces, modulus as required for application, exterior [and interior] use.

C. Latex Joint Sealants:

1. Type: Acrylic-emulsion, ASTM C 834.
2. Application: Interior joints in vertical and overhead surfaces with limited movement.

D. Compression Seals:

1. Type: Preformed foam sealant.
2. Application: Wide exterior joints in vertical surfaces.

E. Fire-Resistive Joint Sealers:

1. Type: Foamed-in-place fire-stopping sealants.
2. Application: Penetrations in fire-rated assemblies.

F. Auxiliary Materials:

1. Plastic foam joint fillers.
2. Elastomeric tubing backer rods.
3. Bond breaker tape.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Examine substrate; report unsatisfactory conditions in writing. Beginning work means acceptance of substrates.
- B. Provide sealants in colors as selected from manufacturer's standards to match adjacent surfaces.
- C. Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials and systems in proper relation with adjacent construction and with uniform appearance. Coordinate with work of other sections. Clean and prime joints, and install bond breakers, backer rods and sealant as recommended by manufacturers.
- D. Depth shall equal width up to 1/2" wide; depth shall equal 1/2 width for joints over 1/2" wide.
- E. Cure and protect sealants as directed by manufacturers. Replace or restore damaged sealants. Clean adjacent surfaces to remove spillage.

***** END OF SECTION 07901 – JOINT SEALANTS

***** END OF DIVISION 7 – THERMAL AND MOISTURE PROTECTION *****