

SECTION 07100
WATERPROOFING

PART 1 - GENERAL

1.01 DESCRIPTION



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- A. Membrane Waterproofing
- B. Thru Wall Flashing
- C. Shower Stall Waterproofing
- D. Concrete Planter Waterproofing
- E. Related Work Specified Elsewhere:
 - 1. Excavation and Backfilling: Section 02220
 - 2. Soil Treatment: Section 02250
 - 3. Cast-In-Place Concrete: Section 03300
 - 4. Unit Masonry: Section 04200

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Synthetic Membrane Waterproofing: Shall be six (6) MIL non-reinforced homogenous, waterproofed not permiable sheeting compound of elastomeric substances meeting ASTM D-822.
- B. Adhesives: Plastic cement as recommended by manufacturer of waterproofing membrane.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Synthetic Membrane Waterproofing and Flashing
 - 1. Synthetic membrane waterproofing and flashing shall be laid Straight and free of wrinkles or tears.
 - 2. All joints shall be lapped four (4) inches and cemented with an approved plastic cement.

END OF SECTION

SECTION 07214
FOAM PLASTIC MASONRY WALL INSULATION

PART 1 - GENERAL:

1.01 DESCRIPTION OF WORK:

- A. Applications of insulation specified in this section include the following:
1. Foam plastic thermal insulation
 - a. Nitrogen-based, non-toxic amino-plast resin, foaming catalyst and air.

1.02 QUALITY ASSURANCE

- A. Insulation shall be installed as per manufacturer's recommendations.
- B. The firm performing work on this project shall have at least five consecutive years off documented experience with the installation of foam plastic masonry wall insulation.
- C. Foam plastic insulation resin must come from the manufacturer pre-mixed to insure consistency.

PART 2 - PRODUCTS:

2.01 MATERIALS:

- A. Tailored Chemical Products, Inc. (CORE-FILL 500 Insulation), Hickory, NC, or equal approved in accord with Section 01630.

PART 3 - EXECUTION:

3.01 INSTALLATION:

- A. FOAM PLASTIC INSULATION is to be installed after all masonry and structural concrete work is in place. A 7/8" hole is to be drilled in each vertical column of block cells 4' +/- above the floor level. The foam is to be pressure injected into the cells at 120 - 160 P.S.I. This procedure is repeated every 10' +/- (i.e. 14', 24', 34', ...) of wall height until the void is completely full. The installer shall then patch their holes with mortar and score to resemble existing surface.

END OF SECTION



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SECTION 07710
GUTTERS AND DOWNSPOUTS

PART 1 - GENERAL

1.01 DESCRIPTION

- A. All gutters and downspouts, rain leaders, fascias, cap flashings, counter flashings, splash blocks, flex connections and extensions, complete and watertight.
- B. Coordinate the building-in of reglets, expansion joints and flashings.
- C. Related Work specified Elsewhere:
 - 1. Rough Carpentry: Section 06100
 - 2. Fiberglass and Asphalt Shingles: Section 07310
 - 3. Modified Bitumen Roofing: Section 07502
 - 4. Flashing and Sheet Metal: Section 07600
 - 5. General Provisions, Mechanical: Section 15010
 - 6. General Provisions, Electrical: Section 16010

1.02 QUALITY ASSURANCE

- A. Work shall be performed in conformance with approved commercial practice, recommendations of S.M.A.C.N.A. and these specifications, unless specifically indicated otherwise on the drawings.
- B. Materials shall meet or exceed requirements of the referenced Federal Specifications, American Society for Testing Materials, and these specifications.

1.03 SUBMITTALS

- A. Submit shop drawings, cuts and manufacturers data on standard commercial items. Indicate the method of fabrication and installation, expansion joints and fastenings.
- B. Submit two samples each of all types and sizes of nails, screws, bolts, brackets, cleats, and other fastenings for approval and state where each type is to be used. Also submit two (2) twelve (12") inch long samples of leaders, Gutters, downspouts, and flex connectors.

1.04 GUARANTEE

- A. Maintain all sheet metal work in a weathertight and watertight condition for a period of two (2) years from date of acceptance by the Owner, except repairs of failures resulting from causes other than ordinary wear from the

elements.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Gutters and Downspouts shall be .032" aluminum, painted finish.
- B. Bituminous plastic cement, SS-C-153.
- C. Bituminous paint, military Spec. MIL-P-6883
- D. Nails, screws, bolts, expansion shields and other fastenings shall be of same material as sheet metal to be secured or shall be durable compatible materials which are regularly recommended for the intended use by the manufacturer of the sheet metal. Nails shall be #10 gauge (.1019" diameter) or larger, needle point and long enough to penetrate wood one inch. Rivets shall be 1/8" in diameter or larger.
- E. Solder shall be 50-50 tin-lead alloy.
- F. Soldering flux, rosin or O-F-506 where necessary.

PART 3 - EXECUTION

3.01 INSPECTION

- A. Inspect all surfaces to which Gutters and Downspouts or accessories are to be installed, and do not install unless such surfaces are sound, dry, clean and free of defects which might be deleterious to the sheet metal work. Drive all projecting nails flush.

3.02 INSTALLATION

- A. Make joints mechanically with filler. All sheet metal work shall be functionally weathertight and watertight.
- B. Insulate between dissimilar metals with one of the following: bituminous paint, one coat primer and one coat aluminum paint, caulking compound, bituminous plastic cement, asphalt varnish, or approved non-absorptive tape or gasket. Resistance across insulated finish joint shall exceed 500,000 ohms.
- C. Finish installation shall be true to line with shop formed shapes undistorted, not damaged, and with properly shaped angles, and with plain surface free from waves and buckles.

END OF SECTION



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SECTION 07810
SKYLIGHTS

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Work included: Provide translucent skylight panels where shown on the drawings, as specified herein, and as needed for a complete and proper installation.
- B. Related Work Specified Elsewhere:
 - 1. Documents affecting work of this Section include, but, are not necessarily limited to, General Conditions, Supplementary Conditions, and Sections of Division 1 of these Specifications.

1.02 QUALITY ASSURANCE

- A. Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needs for proper performance of the work of this Section.

1.03 SUBMITTALS

- A. Product data:
 - 1. Materials list of items proposed to be provided under this Section.
 - 2. Manufacturer's specifications and other data needed to prove compliance with the specified requirements.
 - 3. Shop drawings and details completely showing the fabrication, installation, and anchorage of the proposed construction.

1.04 WARRANTY

- A. Upon completion of this portion of the Work, and as a condition of its acceptance, deliver to the Architect two copies of a Warranty signed by the Contractor and co-signed by the Sub-Contractor for the work of this Section, agreeing to maintain the work of this Section free from leaks for a period of two years commencing on the Date of Substantial Completion of the Work, as that Date is established by the Architect in accordance with the General Conditions.

PART 2 - PRODUCTS

2.01 DESIGN

- A. Provide complete design, calculations, and drawings; prepared

and signed in accordance with provisions of Division 1 of these Specifications.

1. Maintain the general design concept shown, without decreasing or increasing sizes of members and without altering profiles and alignment, except as otherwise approved by the Architect.
2. Make necessary provisions in the design to accommodate stresses to be encountered.

B. Secure the approval of governmental agencies having jurisdiction prior to submitting for the Architect's approval.

PART 3 - EXECUTION

3.01 SURFACE CONDITIONS

A. Examine the areas and conditions under which work of this section will be performed. Correct condition detrimental to timely and proper completion of the work. Do not proceed until unsatisfactory conditions have been corrected.

3.02 INSTALLATION

A. Install the work of this section in strict accordance with the shop drawings as approved by the Architect, and as required by governmental agencies having jurisdiction.

END OF SECTION



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SECTION 07951
SEALANTS AND CAULKING

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Provide and apply all sealants and caulking as required by the drawings and specified herein, and all materials, incidentals, and equipment required to complete this work.
- B. Caulk or seal all openings as shown on the drawings, and all openings which normally require caulking or sealing including, but not being limited to the following:
 - 1. Joints around the windows, door frames and louvers.
 - 2. Expansion and control joints.
 - 3. Vee Joints between precast slabs exposed as ceilings and to receive textured finish.
- C. Related Work Specified Elsewhere:
 - 1. Unit Masonry: Section 04200
 - 2. Finish Carpentry: Section 06200
 - 3. Membrane Roofing: Section 07500
 - 4. Flashing and Sheet Metal: Section 07600
 - 5. Wood doors: Section 08200
 - 6. Stucco: Section 09170
 - 7. General Provisions, Mechanical: Section 15010

1.02 QUALITY ASSURANCE

- A. Materials shall meet or exceed requirements of the referenced Federal, American Society for Testing Materials, and these specifications.

1.03 SUBMITTALS

- A. Samples of all materials specified in this section shall be submitted to Architect for approval in accordance with Section 01340.

1.04 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Materials shall be delivered to job site in sealed containers with manufacturer's original labels attached and accompanied by certification of compliance with specifications.
- B. Materials shall be stored and used in strict accordance with manufacturer's printed instructions.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Exterior non-painted surfaces:
 - 1. Pourous to pourous materials
 - a. G.E. Silpruf Silicone Sealant
 - b. Dow Corning 790 Silicon Building Sealant
 - c. Vulken 181 Urethane Sealant
 - 2. Pourous to non-pourous material
 - a. G.E. Silpruf Silicone Sealant
 - b. Dow Corning 790 Silicon Building Sealant
 - c. Vulken 116 Urethane Sealant
 - 3. Non-pourous to non-pourous material
 - a. G.E. Silpruf Silicone sealant
 - b. Dow Corning 781 Silicone Building Sealant
 - c. Vulken 116 Urethane Sealant
- B. Exterior painted surfaces (all surfaces)
 - 1. Vulken 181 Urethane Sealant
 - 2. DAP Flexiseal one part Polysulfied Sealant
 - 3. Pecora GC9 Synthacalk one part Polysulfied Sealant
- C. Interior (all surfaces)
 - 1. DAP Acrylic Latex (one part)
 - 2. Pecora Ac 20 Acrylic Latex (one part)
 - 3. Tremco Acrylic Latex (one part)
- D. Acoustical Sealant
 - 1. DAP Acoustical Sealant
 - 2. Tremco Acoustical Sealant
- E. Plumbing Fixture Sealant
 - 1. Dow Corning 784 Silicone Sealant
 - 2. G.E. 1700 Series Silicone Sealant
- F. Pour Grade Sealant
 - 1. Vulkem 200 Urethane Sealant
 - 2. Sonneborn Sonolastic CS3LL Paint Sealant
- G. Joint Backing:
 - 1. Closed cell, polyethylene in round or square shape; non-staining; non-absorbent; and capable of at least 30% recovery.
- H. Color: as selected by the Architect.

PART 3- EXECUTION

3.01 INSPECTION

- A. Examine all surfaces prior to application and notify General Contractor and Architect of all conditions detrimental to satisfactory application.

3.02 PREPARATION

- A. All joints or channels shall be cleaned and free of dirt, oil, grease, moisture, loose mortar, or other foreign matter.
- B. Metal surfaces shall be wiped with xylol or MEK and the dried.
- C. Masonry surfaces shall be cleaned with a wire brush and then blown free of dust. All damproofing treatments contaminating the joint must be completely removed.

3.03 APPLICATION

- A. All sealants shall be applied by skilled workers in accord with the Mfg's recommendations.
- B. Work shall be of the highest quality and in compliance with the specifications. Upon completion, the joints shall be watertight.
- C. Apply sealant with hand or air gun under sufficient pressure and through nozzle openings of such a diameter that a full bead of sealant is run into the joint and fill the opening completely with a slightly convex surface. Sealant shall make firm and full contact with both adjacent members being sealed and for the full depth of the joint recess.
- D. Primers recommended by the Mfg. shall be used with sealant where required.
- E. Joints more than 3/4" and joints where suitable backstop has not been provided, shall be packed with joint backing to within 1/2" of the surface before applying sealant. Size of joint backing shall be large enough so it must be compressed approximately 30% before inserting into the joint.
- F. Remove all excess material and smears adjacent to joint as work progresses. Leave work neat, smooth and clean. Upon completion sealant shall have a smooth and even finish.

END OF SECTION