

- C. Unlign Weather: Do not apply materials during inclement weather unless appropriate protection is employed.
- D. Sunlight Exposure: Avoid, when possible, installation of the materials in direct sunlight. Application of Acrylic Finishes in direct sunlight in hot weather may adversely affect aesthetics.
- E. Materials shall not be applied if ambient temperature exceeds 120F (49C) or falls below 40F (4C) within 24 hours of application. Protect materials from uneven and excessive evaporation during hot, dry weather.
- F. Prior to installation, the substrate shall be inspected for surface contamination, or other defects that may adversely affect the performance of the materials and shall be free of residual moisture.

1.9 COORDINATION AND SCHEDULING:

- A. Coordination: Coordinate water-resistive membrane & air barrier coating materials installation with other construction operations.

1.10 WARRANTY

- A. Warranty: Upon request, at completion of installation, provide manufacturer's Standard Limited Warranty.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturer, Basis of Design: Parax USA, Inc., 4125 E. La Palma Ave., Suite 250, Anaheim, CA 92807 Contact: Architectural Sales & National Accounts/Ryan Pritchett/714.853.8463 or Technical Support/800.226.2424.
- B. Components: Obtain components from authorized distributors. No substitutions or additions of other materials are permitted without prior written permission from the CI system manufacturer for this project.

2.2 MATERIALS

- A. Secondary Water-Resistive Barrier
1. Parax USA WeatherSeal Spray & Roll-on™ water resistive barrier coating
 2. Parax USA 396 Sheathing Tape: Non-woven synthetic fiber tape to reinforce Parax USA WeatherSeal Spray & Roll-on water-resistive barrier at sheathing board joints, into rough openings and other terminations into dissimilar materials available in 4, 6 in and 9 in.
 3. Parax USA WeatherFlash: Liquid flashing and joint filler used to prepare and seal exterior wall rough openings and detail joints.
 4. Parax USA 365 Flashing Membrane: Self-sealing, Polyester based, rubberized asphalt membrane, 30 mils (0.76 mm) thick.
- B. Adhesives
1. Parax 121™ Base Coat & Adhesive: 100% acrylic polymer based, requiring the addition of Portland cement; used as an adhesive to laminate EPS Insulation Board to the Parax USA WeatherSeal Spray & Roll-on water-resistive barrier.
 2. Parax 121 Dry Base Coat & Adhesive: Copolymer based, factory blend of cement and proprietary ingredients; requiring the addition of water only, used as an adhesive to laminate EPS Insulation Board to the Parax USA WeatherSeal Spray & Roll-on water-resistive barrier.
 3. 121 Dry HI: High Impact bascoat & adhesive. Copolymer based, blend of cement and proprietary ingredients, requires the addition of water. See data sheet for improved impact performance when 121 Dry HI is used with Parax USA mesh.
 4. 121 Cool Base: White bascoat & adhesive. Copolymer based, blend of cement and proprietary ingredients, requires the addition of water.
 5. 302 ABC-N1 Base Coat & Adhesive: 100% acrylic polymer base, ready to use, applied without the addition of cement.

C. Insulation Board: In compliance with manufacturer's requirements for Standard System CI.

1. Produced and labeled under a third party quality program as required by applicable building code, and produced by a manufacturer approved by Parax USA.
2. Shall conform to ASTM C578 and ASTM E2430, Type I and the Parax USA specification for Molded Expanded Polystyrene Insulation Board.
3. Maximum size shall be 2 ft x 4 ft (610 mm x 1219 mm).
4. Thickness: 1/2 in, minimum (19mm) after rasping.

D. Base Coats:

1. 121 Base Coat: 100% acrylic polymer base, requiring the addition of Portland cement.
2. 121 Dry Base Coat Copolymer based, factory blend of cement and proprietary ingredients requiring addition of water.
3. 121 Dry HI: High Impact bascoat & adhesive. Copolymer based, blend of cement and proprietary ingredients, requires the addition of water. See data sheet for improved impact performance when 121 Dry HI is used with Parax USA mesh.
4. 121 Cool Base: White bascoat & adhesive. Copolymer based, blend of cement and proprietary ingredients, requires the addition of water.

E. Reinforcing Mesh:

1. 355 Standard Mesh: Weight 4.5 oz. per sq. yd. (153 g/sq m); coated for protection against alkali. Standard reinforcement of Parax CI systems or for use with High Impact 358.14 Mesh, or Ultra High Impact 358.20 Mesh.
2. 356 Short Detail Mesh: Reinforcing mesh used for backspacing and details.
3. 352 Long Adhesive Detail Mesh: Reinforcing mesh used for complex details.
4. 358.10 Intermediate Impact 10 Mesh: Weight 12.02 oz per sq. yd. (407 g/sq m) Reinforcing mesh used with a Standard System, to achieve ASTM E2486 intermediate impact strength.
5. 358.14 High Impact 14 Mesh: Weight 15 oz. per sq. yd. (509 g/sq m) Reinforcing mesh used with a Standard System; to achieve ASTM E2486 high impact strength.
6. 358.20 Ultra High Impact 20 Mesh: Weight 20 oz. per sq. yd. (678 g/sq m) Reinforcing mesh used with a Standard System; to achieve ultra-high impact strength.

Locations: _____ASTM E2486 Impact Classification: _____

F. Primer:

1. Parax USA Primer: 100% acrylic based coating to prepare surfaces for acrylic or elastomeric finishes.

G. Finish

1. Parax DPR Standard Finish: Factory blended, 100% acrylic polymer based finish, integrally colored. Finish type, texture and color as selected by Project Designer.
2. Parax USA ColorFast Pigments System: Fade resistant pigment system offering superior fade resistance; factory tinted only, used with any Parax USA acrylic or elastomeric finish or coating.

H. Parax 365 DrainEdge™: Pre-punched strip of non-woven fabric to allow for drainage at the head of system penetrations.

1. Water: Clean, cool, potable water.
2. Portland Cement: ASTM C150, Type I or Type II.

2.3 RELATED MATERIALS AND ACCESSORIES

A. Substrate Materials:

1. Glass mat gypsum sheathing conforming to ASTM C117.
2. Cement Fiber Sheathing conforming to ASTM C1186
3. Gypsum Sheathing: Minimum 1/2 in (13 mm) thick, core-treated, weather-resistant, exterior gypsum sheathing complying with ASTM C79.
4. Plywood: Minimum 7/16 in (8 mm) thick exterior grade or PS 1, Exposure 1, minimum 7/16 in thick, C veneer facing out, panels gapped 1/8 in at all edges.
5. Oriented Strand Board (OSB): 7/16 in - 1/2 in WaR-16 or WaR-24, approved by the APA, TECO, or PSIPTL. Stamped as Exposure 1 or Exterior Sheathing with a PS2 or PRP-106 rating.
6. Concrete Masonry Units (CMU): Non-painted (uncoated).
7. Concrete (poured or pre-cast).
8. Other approval by manufacturer writing prior to the project.

B. Flashing: Refer to Division 07 Flashing Section for flashing materials.

C. Sealant System:

1. Sealant for expansion joints between panelized EIFS sections shall be ultra-low modulus designed for minimum 100% elongation and minimum 50% compression and as selected by Project Designer.
2. Sealant for perimeter seals around window and door frames and other wall penetrations shall be low modulus, designed for minimum 50% elongation and minimum 25% compression, and as selected by Project Designer.
3. Sealants shall conform to ASTM C 920, Grade NS.
4. Expansion joints between sections of CI system shall have a minimum width of 3/4 in (19 mm).
5. Perimeter seal joints shall be a minimum width of 1/2 in (12.7 mm).
6. Sealant backer rod shall be closed-cell polyethylene foam.
7. Apply sealant to tracks or base coat of CI system.
8. Refer to CI system manufacturer's current bulletin for listing of sealants which have been tested and have been found to be compatible with EIFS materials.
9. Color shall be as selected by Project Designer.
10. Joint design, surface preparation, and sealant primer shall be based on sealant manufacturer's recommendations and project conditions.

PART 3 - EXECUTION

3.1 EXAMINATION

1. Verify project site conditions under provisions of Section 01 00 00.
2. Compliance: Comply with manufacturer's instructions for installation.
3. Substrate Examination: Examine prior to installation of CI system assembly materials as follows:
 1. Substrate shall be of a type approved by manufacturer. Plywood and OSB substrates shall be gapped 1/8 in (3.2 mm) at all edges.
 2. Substrate shall be examined for soundness, and other harmful conditions.
 3. Substrate shall be free of dust, dirt, lint, efflorescence, and other harmful contaminants.
 4. Substrate construction in accordance with substrate manufacturer's specifications and applicable building codes.
 5. Maximum deflection of the substrate shall be limited to L/400.
4. Sealants and Backer Rod: To be installed, where required, in accordance with the manufacturer's specifications and published literature, and using the sealant manufacturer's recommended primers.
5. Advise Contractor of discrepancies preventing proper installation of the CI system materials. Do not proceed until satisfactory conditions are corrected.

3.2 PREPARATION

1. Protection: Protect surrounding material surfaces and areas during installation of system.
2. Clean surfaces thoroughly prior to installation.
3. Prepare surfaces using the methods recommended by the manufacturer to obtain the best result for the substrate under the project conditions.

3.3 MIXING

1. Mix materials in accordance with manufacturer's instructions.

3.4 APPLICATION

1. General: Installation shall comply with specifications and manufacturer's written instructions.
2. Apply Accessories and Water-Resistive Barrier:
 1. Wood and OSB substrate edges (non-factory edges) must be sealed with a water-resistive coating.
 2. Apply drainage tracks (limited to terminations at foundations), back-wrap mesh, or edge-wrap mesh at system terminations. Treat all glass and masonry sheathing, cement board sheathing, OSB and plywood joints with Parax USA WeatherSeal Spray & Roll-on water-resistive barrier and Parax USA 396 Sheathing Tape.
3. Flash:
 1. Flash with Parax USA WeatherSeal Spray & Roll-on water-resistive barrier and embedded Parax USA 396 Sheathing Tape or Parax USA Flashing Membrane.
4. Apply Parax USA WeatherSeal Spray & Roll-on Water-resistive barrier to the surface of the appropriate substrate (in accordance with product data sheet).
5. Treat the heads of all window, door and similar openings with Parax USA DrainEdge and back-wrap mesh to allow for drainage at these locations.

C. Insulation Board

1. Apply Parax adhesive to backs of insulation boards with a Parax drainage notched trowel, with ribbons of adhesive oriented in a vertical

2. Section (parallel to the 2 ft (610 mm) dimension of the EPS board). Apply a 1 in (25.4 mm) wide horizontal ribbon of adhesive on the back at the lower edge of insulation boards installed over Parax USA DrainEdge.
2. Install insulation board without gaps in a running bond pattern and interlock at corners.
3. Rasp irregularities of insulation board.

1. Apply base coat and fully embed mesh in base coat; include diagonal mesh patches at corners of openings and reinforcing mesh patches at joints of track sections. Apply multiple layers of base coat and mesh where required for specified impact resistance classification.

1. Apply primer to base coat after drying. Primer may be omitted if not required by the manufacturer's product data sheets for the specified finish coat or otherwise specified for the project.

1. Finish Coat: Apply finish coat to match specified finish type, texture, and color. Do not apply finish coat to surfaces to receive sealant. Keep finish coat of sealant joint gaps.

3.5 CLEAN-UP

1. Removal: Remove and legally dispose of CI system materials from job site.
2. Clean surfaces and work area of foreign materials resulting from material installation.

3.6 PROTECTION

1. Provide protection of installed materials from water infiltration into or behind them.
2. Provide protection of installed materials from dust, dirt, precipitation, and freezing during installation, and continuous high humidity until fully cured and dry.
3. Clean exposed surfaces using materials and methods recommended by the manufacturer of the material or product being cleaned. Remove and replace work that cannot be cleaned to the satisfaction of the Project Designer/Owner.

END OF SECTION 0720

SECTION 07543 - THERMOPLASTIC POLYOLEFIN ROOFING

PART 1 - GENERAL

1. SUMMARY

1. Section Includes
 1. Adhesive TPO High performance flat membrane roofing system
 2. Provide roof system in full compliance with all components specified Miami-Dade NOA roof assembly

1.2 PERFORMANCE REQUIREMENTS

1. Energy Performance: Provide roofing system with Initial Solar Reflectance Index not less than 78 when calculated according to ASTM E 1890, based on testing identical products by a qualified testing agency.
2. Energy Performance: Provide roofing system that is listed on the DOE's ENERGY STAR "Roof Products Qualified Product List" for low-slope roof products.
3. Energy Performance: Provide roofing system with initial solar reflectance not less than 0.70 and emissivity not less than 0.75 when tested according to ASTM E 1891.

1.3 QUALITY ASSURANCE

1. Installer Qualifications: A qualified firm that is approved, authorized, or licensed by membrane roofing system manufacturer to install manufacturer's product.
2. Source Limitations: Obtain components including roof insulation and fasteners for membrane roofing system from same manufacturer as membrane roofing system.

1.4 WARRANTY

1. Special Warranty: Manufacturer's standard or customized form, without monetary limitation, in which manufacturer agrees to repair or replace components of membrane roofing system that fail in material or workmanship within specified warranty period.
 1. Warranty Period: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 TPO MEMBRANE ROOFING

1. Fabric-Reinforced Thermoplastic Polyolefin Sheet: ASTM D 8978, scrim reinforced, uniform, flexible, TPO sheet.
 1. Manufacturers: Subject to compliance with requirements, provide the following:
 1. See NOA on drawings.
 2. Approved equal.
 3. Color: White.
 2. Thickness: Per NOA.
 3. Color: White.

2.2 AUXILIARY MEMBRANE ROOFING MATERIALS

1. General: Auxiliary membrane roofing materials recommended by roofing system manufacturer for intended use, and compatible with membrane roofing system.
 1. Liquid-type auxiliary materials shall comply with VOC limits of authorities having jurisdiction.
 2. Adhesives and sealants that are not on the exterior side of weather barrier shall comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D (EPA Method 24):
 1. Plastic Foam Adhesives: 50 g/L.
 2. Gypsum Board and Panel Adhesives: 50 g/L.
 3. Multipurpose Construction Adhesives: 70 g/L.
 4. Fiberglass Adhesives: 80 g/L.
 5. Contact Adhesive: <290 g/L.
 6. Other Adhesives: 250 g/L.
 7. Single-Ply Roof Membrane Sealants: 450 g/L.
 8. Non-membrane Roof Sealants: 300 g/L.
 9. Sealant Primers for Nonporous Substrates: 250 g/L.
 10. Sealant Primers for Porous Substrates: 775 g/L.

B. Sheet Flashing: Manufacturer's standard unreinforced thermoplastic polyolefin sheet flashing, 55 mils thick, minimum, of same color as sheet membrane.

C. Bonding Adhesive: Manufacturer's standard water based.

D. Slip Sheet: Manufacturer's standard, of thickness required for application.

E. Metal Termination Bars: Manufacturer's standard, profiled stainless-steel or aluminum bars, approximately 1 1/8 inch thick, with anchors.

F. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Approvals 4470, designed for fastening membrane to substrate, and acceptable to membrane roofing system manufacturer.

G. Miscellaneous Accessories: Provide portable sealers, preformed cone and vent sheet flashings, preformed inside and outside corner sheet flashings, joint covers, top sealants, termination reglets, and other accessories.

2.3 ROOF INSULATION

1. Polyisocyanurate Board Insulation: ASTM C 1285, Type II, Class 1, Grade 2, felt or glass-fiber mat faced on both major surfaces.
2. R-Value: Subject to compliance with requirements, provide insulation with minimum R-Value of 30°F•R/h (10.0 insulation requirements may vary with local authorities and regulations.
3. Tapered Insulation (if shown on drawings): Provide factory-insulated insulation boards fabricated to slope of 1/4 inch per 12 inches unless otherwise indicated.
4. Provide preformed adhesives, crickets, lapped edge strips, and other insulation shapes where indicated for sloping of 1:12 or 1:10 slopes indicated.

2.4 INSULATION ACCESSORIES

1. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Approvals 4470, designed for fastening roof insulation and cover boards to substrate, and acceptable to roofing system manufacturer.
2. Insulation Adhesive: Insulation manufacturer's recommended cold-applied adhesive formulated to attach roof insulation board to an insulation layer.

2.5 WALKWAYS

1. Flexible Walkways: Factory-formed, nonporous, heavy-duty, slip-resisting, surface-textured walkway mats or rolls, approximately 3/8 inch thick, and acceptable to membrane roofing system manufacturer.

PART 3 - EXECUTION

3.1 INSTALLATION

1. Coordinate installing membrane roofing system components so insulation is not exposed to precipitation or exposed at the end of the workday.
2. Comply with membrane roofing system and insulation manufacturer's installation instructions for installing roof insulation.
3. Install tapered insulation under area of roofing to conform to slopes indicated.
4. Install insulation under area of roofing to achieve required thickness.
5. Jointing: Seal joints between insulation with approved sealant. Sealant thickness is 2.7 inches or greater; install two or more layers with joints of each successive layer staggered 1/2 inch in each direction.
6. Mechanically Fastened Insulation: Install each fastener and secure to deck using mechanical fasteners specifically designed and sized for fastening specified board-type roof insulation.
7. Fasten insulation to resist uplift at corners, penetrations and field.

3.2 WATER MEMBRANE ROOFING INSTALLATION

1. Prepare membrane roofing system by removing and installing membrane roofing system manufacturer's written instructions.
2. Prepare all surfaces on which membrane roofing system is to be applied to meet specific use of minimum dimensions required by manufacturer. Stagger and lap.
3. Apply Adhesive: Apply adhesive to substrate and underlayment membrane roofing at rate required by manufacturer and allow to partially dry before installing membrane roofing. Do not apply to wet or saturated substrate.
4. In addition to adhering mechanically fasten membrane roofing securely at terminations, penetrations, and perimeter of roofing.
5. Apply sealant to membrane roofing system as specified with slope of roof deck where possible.
6. Seams: Overlap seams and fasten membrane roofing, and hot-air weld side and end laps of membrane roofing and sheet flashings according to manufacturer's instructions to ensure a watertight seam installation.
7. Test lap seams in lab prior to verify seam weld continuity. Apply lap sealant to seal out edges of sheet membrane.
2. Verify field strength of seams a minimum of twice daily and repair seam sample areas.
3. Repair tears, voids, and lapped seams in roofing that does not comply with requirements.

3.3 BASE FLASHING INSTALLATION

1. Install sheet flashings and preformed flashing accessories and adhere to substrates according to membrane roofing system manufacturer's written instructions.
2. Apply bonding adhesive to substrate and underside of sheet flashing at required rate and allow to partially dry. Do not apply to seam area of flashing.
3. Flash penetrations and field-finish inside and outside corners with curved or uncured sheet flashing.
4. Clean seam areas, overlap, and firmly roll sheet flashings into the adhesive. Hot-air weld side and end laps to ensure a watertight seam installation.
5. Terminate and seal top of sheet flashings and mechanically anchor to substrate through termination bars.

3.4 WALKWAY INSTALLATION

1. Flexible Walkways: Install walkway products in locations indicated. Heat-weld to substrate or adhere walkway products to substrate with compatible adhesive according to roofing system manufacturer's instructions.

3.5 FIELD QUALITY CONTROL

1. Final Roof Inspection: Arrange for roofing system manufacturer's technical personnel to inspect roofing installation on completion.
2. Repair or remove and replace components of membrane roofing system where inspections indicate that they do not comply with specified requirements.

END OF SECTION 07543

SECTION 07600 - SHEET METAL FLASHING AND TRIM

1.1 SUMMARY

1. This Section Includes the following:
 1. Coating

1.2 SHEET METAL FLASHING AND TRIM MATERIALS AND MISCELLANEOUS ITEMS

1. Coating: Provide aluminum coping similar to AP Snap-It coping system as manufactured by PAC Clad. The coping shall be 95% smooth 500S-34 alloy aluminum. Complete with all accessories including a baked enamel finish.

1.3 SHEET METAL FINISH

1. High-Performance Organic Coating Finish: Apply the following system by coil coating process on galvanized steel sheet as recommended by coating manufacturer and applicator.
 1. Fluoropolymer 2-Coat Coating System: Manufacturer's standard 2-coat, thermoplastic system composed of specially formulated inhibitive primer and fluoropolymer color topcoat containing not less than 70 percent polyvinylidene fluoride resin by weight; complying with AAMA 805.2
 2. Color: As indicated on the drawings.

1. Reinforcement: Subject to compliance with requirements, provide fluoropolymer coating systems containing resins produced by one of the following manufacturers:
 1. Elf Atochem North America, Inc. (Kytar 500)

1. Sheet Metal Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated in the Work includes, but are not limited to, the following:
 1. Aas Aluminum Corporation: Rapid Lock Coping
 2. Metal Edge Roof Edge Systems: Econolite Coping
 3. WP Hickey: Universal Coping System.

1.4 INSTALLATION REQUIREMENTS

1. General: Except as otherwise indicated, comply with manufacturer's installation instructions and recommendations and with SMACNA "RACIALAR Sheet Metal Manual." Anchor units of work securely in place by methods indicated, providing for thermal expansion of metal units. Conceal fasteners where possible, and set units but to line and level as indicated. Install work with laps, joints, and seams that will be permanently watertight and weathertight.

1.5 CLEANING AND PROTECTION

1. Clean exposed metal surfaces, removing substances that might cause corrosion of metal or deterioration of finishes.
2. Protection: Advise Contractor of required procedures for surveillance and protection of flashings and sheet metal work during construction to ensure that work will be without damage or deterioration other than natural weathering at time of Substantial Completion.

END OF SECTION 07600

SECTION 07720 - ROOF ACCESSORIES

1.1 SUMMARY

1. This Section includes the following:
 1. Roof hatches

1.2 MANUFACTURERS

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 1. Bilco Co. Type S-20

1.3 MATERIALS, GENERAL

1. Commercial-Quality Galvanized Steel Sheet: ASTM A 526 with G90 coating complying with ASTM A 525.
2. Insulation: Manufacturer's standard rigid or semi-rigid glass-fiber board of thickness indicated.
3. Wood Nailers: Softwood lumber, pressure treated with water-borne preservatives for above-ground use, complying with AWWA C2, not less than 1-1/2 inch thick.

1. Fasteners: Same metal as metals being fastened, or non-magnetic stainless steel or other non-corrosive metal as recommended by manufacturer. Match finish of exposed fasteners with finish of material being fastened.
 1. Where removal of exterior exposed fasteners affords access to building, provide non-removable fastener heads.
 2. Gaskets: Manufacturer's standard tubular or fingered design of neoprene or polyvinyl chloride, or block design of sponge neoprene.
 3. Elastomeric Sealant: Generic type recommended by unit manufacturer that is compatible with joint surfaces; ASTM C 920, Type S, Grade NS, Class 25, and Uses NT, G, and A.
 4. Roofing Cement: ASTM D 4886, non-asbestos, fibrated asphalt cement designed for trowel application of other adhesive compatible with roofing system.

1.4 ROOF HATCHES

1. General: Fabricate units to withstand 40-lbf per sq. ft. external loading and 20-lbf per sq. ft. internal loading pressure. Frame with 9-inch-high, integral-curb, double-wall 14 gauge construction with 1-1/2 inch insulation, cant strips and cap flashing (roofing counterflashing), with welded or sealed mechanical corner joints. Provide double-wall 14 gauge cover (lid) construction with 1-inch insulation core. Provide gasketing and equip corrosion-resistant or hot-dip galvanized hardware including pitile hinges, hold-open devices, interior padlock latches, interior security bars and both interior and exterior latch handles.
2. Single-leaf perforated access: Bilco Type S-20
3. For Ladder Access: 3'-0" x 2'-6"
4. Materials: Zinc-coated steel sheets with red oxide primer.

1.5 INSTALLATION

1. General: Comply with manufacturer's instructions and recommendations. Coordinate with installation of roof deck and other substrates to receive accessory units, roof insulation, roofing and flashing, as required, to ensure that each element of the Work performs properly and that combined elements are waterproof and weathertight. Anchor units securely to supporting structural substrates, adequate to withstand lateral and thermal stresses, as well as inward and outward loading pressure.
2. Except as otherwise indicated, install roof accessory items according to construction details of NRCA "Roofing and Waterproofing Manual."
3. Isolation: Where metal surfaces of units are to be installed in contact with incompatible metal or corrosive substrates, including wood, apply bituminous coating on concealed metal surfaces, or provide other permanent separation.
4. Flange Seal: Unless otherwise indicated, seal flanges of accessory units in a thick bed of roofing cement to form a seal.
5. Cap Flashing: Where cap flashing is required as component of accessory install to provide adequate roof proof overhang, use roofing or roof flashing (as counter-flashing). Seal with thick bed of mastic sealant, clean where overlap is indicated and left open for ventilation.
6. Operational Units: Test operate units with operable components. Check and lubricate units and hardware prior to project operation.

1.6 CLEANING AND PROTECTION

1. Clean exposed metal surfaces according to manufacturer's instructions to reach up damaged areas of coating.

END OF SECTION 07720

SECTION 07841 - THROUGH-PENETRATION FIRESTOP SYSTEMS

1.1 SUMMARY