

SECTION 075323

SINGLE MEMBRANE ROOFING

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Elastomeric Sheet Membrane Conventional Roofing System with insulation fully adhered, roofing membrane wall flashings, edge flashings, roof penetration flashings, roof accessories, etc. as may be required for a complete roofing system.— see Roof Plan Drawing
- B. Poly Iso Insulation (Dining Room Roof only)

1.2 SUBMITTALS

- A. Product Data: Provide characteristics on membrane materials, flashing materials, insulation.

1.3 QUALITY ASSURANCE

- A. Perform Work in accordance with Underwriters Laboratories Inc. (UL) Class A Fire Hazard Classification.

1.4 ENVIRONMENTAL REQUIREMENTS

- A. Do not install membrane during inclement weather or when air temperature may fall below 40° F.

1.5 WARRANTY

- A. Provide a Fifteen Year Manufacturer's Full System Warranty for labor & materials (no dollar limit) under provisions of Section 01001 including coverage of materials and installation and resulting damage to building resulting from failure to resist penetration of moisture.
- B. In addition to the Manufacturer's Warranty described in Item A the roofing contractor shall provide a Two Year Labor and Material Warranty for all roofing and sheetmetal work.

1.6 WIND LOADS

- A. The Roofing System shall conform to the requirements for Wind Loads as described in BC 1609 and BC1504.2, 1504.3 and 1504.4.

PART 2 PRODUCTS

2.1 MEMBRANE MATERIALS

- A. Equal to Firestone fully adhered roofing system with standard rubberguard EPDM in 60 mil thickness with ½" thick recovery board. Run flashing up parapet wall.

2.2 MEMBRANE FASTENING

- A. Membrane Adhesive: Type recommended by membrane manufacturer.
- B. Insulation Adhesive: Type recommended by insulation manufacturer.

2.3 INSULATION MATERIALS

- A. Manufacturers: Acceptable to the roofing manufacturer.
- B. Recovery Board: As recommended by insulation manufacturer.
- C. Poly Iso Insulation (Dining Room): Six inch (6"), R value 39.5
- D. Insulation Adhesive: As recommended by insulation manufacturer.
- E. Insulation Joint Tape: As recommended by insulation manufacturer.

2.4 ACCESSORIES

- A. Flexible Flashings: Same material as membrane.
- B. Prefabricated Control or Expansion Joint Flashing: Sheet butyl, foam filler, and metal edges flashings.
- C. Cant Strip: As Recommended by Roofing Manufacturer.
- D. Any other materials required by the roofing manufacturer for a complete installation.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that surfaces and site conditions are ready to receive work; wood deck is clean and smooth, free of snow or ice; properly sloped to drains.
- B. Verify roof openings, curbs, and protrusions through roof are solidly set; wood cant strips and reglets are in place.

3.2 RECOVERY BOARD APPLICATION

- A. Embed into insulation adhesive and mechanically fasten board to deck in accordance with manufacturer's instructions.
- B. Lay boards with edges in moderate contact without forcing. Cut to fit neatly to perimeter blocking and around penetrations through roof.

3.3 MEMBRANE APPLICATION

- A. Apply membrane in accordance with manufacturer's instructions.
- B. Seal items penetrating membrane with counterflashing membrane material. Install membrane flashings. Seal watertight to membrane.
- C. Apply roof control and expansion joint materials to isolate roof into areas as indicated.

3.4 FLASHINGS AND ACCESSORIES

- A. Apply flexible flashings to seal membrane to vertical elements.
- B. Install roofing control joints to isolate roof into areas as indicated in accordance with manufacturer's instructions.

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- C. Coordinate installation of roof drains and related flashings.
- D. Seal flashings and flanges of items penetrating membrane.

END OF SECTION