

Part 1 General

1.1 Section Includes

- .1 Materials and installation methods providing air vapour barrier materials and assemblies.
- .2 Air/vapour barrier materials to provide continuous seal between components of building envelope and building penetrations.

1.2 Related Sections

- .1 Section 07900 - Joint Sealers.

1.3 References

- .1 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-19.13M-M87, Sealing Compound, One Component, Elastomeric Chemical Curing.
 - .2 CAN/CGSB-19.18M-M87] Sealing Compound, One Component, Silicone Base Solvent Curing.
 - .3 CAN/CGSB-19.24M-M90, Multi-Component, Chemical Curing Sealing Compound.
 - .4 CGSB 19-GP-14M-76, Sealing Compound, One Component, Butyl-Polyisobutylene Polymer Base, Solvent Curing.
- .2 NBCC 1995; Part 5 - Environmental Separation
- .3 Sealant and Waterproofer's Institute - Sealant and Caulking Guide Specification.

1.4 Submittals

- .1 Submit shop drawings in accordance with Section 01330 - Submittal Procedures.
- .2 Submit manufacturer's product data sheets in accordance with Section 01330 - Submittal Procedures
- .3 Submit manufacturer's installation instructions in accordance with Section 01330 - Submittal Procedures.

1.5 Quality Assurance

- .1 Perform Work in accordance with Sealant and Waterproofer's Institute - Sealant and Caulking Guide Specification requirements for materials and installation.

1.6 Qualifications

- .1 Applicator: Company specializing in performing work of this section [with minimum 5 years documented experience with installation of air/vapour barrier systems. Completed installation must be approved by the material manufacturer. .

- .2 Applicator: Company who is currently licensed by certifying organization must maintain their license throughout the duration of the project.

1.7 Mock-Up

- .1 Construct mock-up in accordance with Section 01450 - Quality Control.
- .2 Construct typical exterior wall panel 5m long by 0.800 m high.
- .3 Locate where directed.
- .4 Mock-up may remain as part of the Work.
- .5 Allow 24 h for inspection of mock-up by Contract Administrator before proceeding with air/vapour barrier Work.

1.8 Pre- Installation Meetings

- .1 Convene prior to commencing Work of this section.

1.9 Delivery, Storage and Handling

- .1 Deliver, store and handle materials in accordance with Section 01610 - Basic Product Requirements.
- .2 Deliver, store and handle materials in accordance with manufacturer's written instructions.
- .3 Avoid spillage. Immediately notify Contract Administrator if spillage occurs and start clean up procedures.
- .4 Clean spills and leave area as it was prior to spill.

1.10 Waste Management and Disposal

- .1 Place materials defined as hazardous or toxic waste in designated containers.
- .2 Ensure emptied containers are sealed and stored safely for disposal away from children.

1.11 Project Environmental Requirements

- .1 Do not install solvent curing sealants or vapour release adhesive materials in enclosed spaces without ventilation.
- .2 Ventilate enclosed spaces.
- .3 Maintain temperature and humidity recommended by materials manufactures before, during and after installation.

1.12 Warranty

- .1 For sealant and sheet materials the 12 months warranty period prescribed in subsection GC 32.1 of General Conditions "C" is extended to 24 months.

Part 2 Products

2.1 Sheet Materials

- .1 Sheet Seal Type 1: Self-Adhesive bitumin laminated to high-density polyethylene film,
 - .1 Acceptable material: Grace 'Perma-Barrier'.
 - .2 Acceptable material: Bakor Blueskin SA
- .2 Sheet Seal Type 2: Thermofusable elastomeric bitumin membrane reinforced with a glass mat.
 - .1 Acceptable material: Soprema 'Sopra-flam'
 - .2 Acceptable material: Bakor Blueskin TG
- .3 Foam Seal Type 3: Spray-applied medium density spray polyurethane foam insulation/air/vapour barrier.

2.2 Sealants

- .1 Sealants in accordance with Section 07900 - Joint Sealers.

Part 3 Execution

3.1 Examination

- .1 Verify that surfaces and conditions are ready to accept the Work of this section.
- .2 Ensure all surfaces are clean, dry, sound, smooth, continuous and comply with air barrier manufacturer's requirements.
- .3 Report any unsatisfactory conditions to the Contract Administrator in writing.
- .4 Do not start work until deficiencies have been corrected. Commencement of Work implies acceptance of conditions.

3.2 Preparation

- .1 Remove loose or foreign matter which might impair adhesion of materials.
- .2 Ensure all substrates are clean of oil or excess dust; all masonry joints struck flush, and open joints filled; and all concrete surfaces free of large voids, spalled areas or sharp protrusions.
- .3 Ensure all substrates are free of surface moisture prior to application of self-adhesive membrane and primer.

- .4 Ensure metal closures are free of sharp edges and burrs.
- .5 Prime substrate surfaces to receive adhesive and sealants in accordance with manufacturer's instructions.

3.3 Installation

- .1 Install materials in accordance with manufacturer's instructions.
- .2 Install sheet seal between window and door frames and adjacent wall seal materials with sealant and mechanically fastened galvanized metal cleats
- .3 Apply sealant within recommended application temperature ranges. Consult manufacturer when sealant cannot be applied within these temperature ranges.

3.4 Protection of Work

- .1 Protect finished Work in accordance with Section 01610 - Basic Product Requirements.
- .2 Do not permit adjacent work to damage work of this section.
- .3 Ensure finished Work is protected from climatic conditions.

END OF SECTION