

Part 1 General

1.1 SECTION INCLUDES

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

1.2 REFERENCES

- .1 Canadian Construction Documents Committee
 - .1 CCDC 2 - Stipulated Price Contract.
- .2 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.
- .3 NBCC 1995; Part 5 - Environmental Separation
- .4 Sealant and Waterproofers Institute - Sealant and Caulking Guide Specification.

1.3 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.

1.4 QUALITY ASSURANCE

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

1.5 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.

1.6 MOCK-UP

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

1.7 PRE- INSTALLATION MEETINGS

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

1.8 DELIVERY, STORAGE AND HANDLING

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

1.9 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.

1.10 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.

1.11 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 Sheet Seal Type 2: Thermofusible elastomeric bitumin membrane reinforced with a glass mat.
 - .1 Acceptable material: Soprema 'Sopra-flam'
- .3 Foam Seal [Type [4]]: Spray-applied medium density spray polyurethane foam insulation/air/vapour barrier.

2.2 Moisture Barrier

- .1 Moisture barrier for below-grade application:
 - .1 Acceptable Material: Bithuthene 3000 installed as per manufacturer's instructions.

2.3 SEALANTS

- .1 Sealants in accordance with Section 079210 - 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 Engineer 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 Do not permit adjacent work to damage work of this section.
- .2 Ensure finished Work is protected from climatic conditions.

END OF SECTION