

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 Joint Sealers Section 07 92 00
- 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 Waterproofers Institute – Sealant and Caulking Guide Specification.
 - .4 National Air Barrier Association (NABA).
- 1.4 Quality Assurance
 - .1 Perform work in accordance with Sealant and Waterproofers Institute – Sealant and Caulking Guide Specification requirements for materials and installation.
 - .2 Perform work in accordance with National Air Barrier Association – Professional Contractor Quality Assurance Program and requirements for materials and installation.
 - .3 Maintain one copy of documents on site.
- 1.5 Delivery, Storage And Handling
 - .1 Deliver, store and handle materials in accordance with manufacturers written instructions.
- 1.6 Project Environmental Requirements
 - .1 Do not install solvent curing sealants or vapour release adhesive materials in enclosed spaces without ventilation.
 - .2 Maintain temperature and humidity recommended by materials manufacturer before, during and after installation.
- 1.7 Sequencing
 - .1 Sequence Work to permit installation of materials in conjunction with related materials and seals.
- 1.8 Warranty
 - .1 Provide a 3-year warranty under provisions of Closeout Submittals.

- .2 Warranty: Include coverage of installed sealant and sheet materials, which fail to achieve air tight and watertight, seal, exhibit loss of adhesion or cohesion, or do not cure.

PART 2 PRODUCTS

2.1 Sheet Materials

- .1 Type A: sloped roof peel and stick vapour barrier.
 - .1 Acceptable material: Ice and Water Shield- Grace, Sopraseal Stick 1100, Soprema 1.1 mm or approved equal in accordance with B7.
- .2 Type B: Eave protection.
 - .1 Acceptable material: Ice and Water Shield- Grace, Sopraseal Stick 1100, Soprema or approved equal in accordance with B7.
- .3 Type C: Thermo-fusible vapour barrier on concrete or masonry substrate.
 - .1 Acceptable material: Blueskin TG, Bakor, Sopraseal, Soprema or approved equal in accordance with B7.
- .4 Type D: Peel and stick vapour barrier for wood substrate or where open flame cannot be used.
 - .1 Acceptable material: Blueskin SA, Bakor, Lasto Bond, Soprema, Perma Barrier, Grace or approved equal in accordance with B7.
- .5 Type E: Basement/crawlspace areas.
 - .1 Acceptable material: 10 mil poly vapour barrier; (CAN CG SB 51.34-M86).
- .6 Type F: Exterior wall and roof surfaces as per drawings.
 - .1 Acceptable material: 6 mil poly vapour barrier, CMHC approved; (CANCG SB 51.34-M86).
- .7 Type G: Exterior wall surface sheet air barrier.
 - .1 Acceptable material: Tyvek, Dupont, Typar housewrap or approved equal in accordance with B7.
- .8 Type H: Roof under asphalt shingles.
 - .1 Acceptable material: 15 lb roofing felt (CAN CG SB 51.34-M86).
- .9 Type J: Flat roof vapour barrier.
 - .1 Acceptable material: Orange Label Fibrene, Permastop, Fibreglass Canada, or approved equal in accordance with B7.

2.2 Sealants

- .1 Sealants in accordance with Section 07 92 00 – Joint Sealers.

2.3 Adhesives

- .1 Mastic Adhesive: Compatible with sheet seal and substrate.
- .2 Acceptable material: Tremco Acoustical Sealant, or approved equal in accordance with B7.

2.4 Accessories

- .1 Thinner and cleaner for Butyl or Neoprene Sheet: as recommended by sheet material manufacturer. Non-staining type.
- .2 Joint Cleaner: Non-corrosive and non-staining type; recommended by sealant manufacturer; compatible with joint forming materials.
- .3 Tape: No. Y-8086, 3M, Contractor's Sheathing Tape, or approved equal in accordance with B7.

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, and 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 per drawings and details.
- .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 01 61 00 – Product Requirements.
- .2 Do not permit adjacent work to damage work of this section.
- .3 Ensure finished work is protected from climatic conditions.