

Supplemental Architectural Specifications

City of Winnipeg
Water and Waste
Department

AIR BARRIERS

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Part 1 General

1.1 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit submittals in accordance with the Specifications.
- .2 Provide Drawings of special joint conditions.
- .3 Submit manufacturer's product data sheets.
- .4 Submit manufacturer's installation instructions.

1.2 QUALITY ASSURANCE

- .1 Perform Work in accordance with National Air Barrier Association - Professional Contractor Quality Assurance Program and requirements for materials and installation.
- .2 Maintain one (1) copy of documents on-Site.
- .3 Mock-Up:
 - .1 Construct mock-up.
 - .2 Construct typical exterior wall panel, 1200 mm long by 1800 mm wide, building corner condition, junction with roof system and; illustrating materials interface and seals.
 - .3 Locate where directed.
 - .4 Mock-up may **not** remain as part of finished work.
 - .5 Allow twenty-four (24) hours for inspection of mock-up by Contract Administrator before proceeding with air barrier Work.

1.3 QUALIFICATIONS

- .1 Applicator: Company specializing in performing work of this section with minimum five (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 National Air Barrier Association, must maintain their license throughout the duration of the project.

1.4 PRE- INSTALLATION MEETINGS

- .1 Convene one (1) week prior to commencing Work of this section.

1.5 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with manufacturer's written instructions.

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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 manufactures before, during and after installation.

Part 2 Products

2.1 AIR BARRIER SYSTEM

- .1 Self-adhesive air barrier membrane: self-adhered membrane consisting of modified polyolefin and non-woven polyethylene.
 - .1 Acceptable material: Henry Co Blueskin VP 160.

2.2 SEALANTS

- .1 Sealants in accordance with barrier manufacturer and Section 07 92 00 Joint Sealants and compatible with adjacent materials.
- .2 Butyl Sealant Type A : CGSB 19-GP-14M, butyl rubber base, single component, solvent release, non-skinning, Shore "A" Hardness Range of 10 to 30.
- .3 Sealant Type B: CAN/CGSB-19.13M, single component, chemical curing, capable of continuous water immersion, non-sagging type, Shore "A" Hardness Range of 20 to 35.
- .4 Primer: Recommended by sealant manufacturer to appropriate to application.
- .5 Substrate Cleaner: Non-corrosive type recommended by sealant manufacturer, compatible with adjacent materials.

2.3 ACCESSORIES

- .1 Thinner and cleaner for Butyl, Neoprene Sheet: As recommended by sheet material manufacturer.

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.

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- .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 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 air barrier materials in accordance with manufacturer's instructions.
- .2 Install sealant materials in accordance with manufacturer's instructions.
- .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 industry standards. Do not permit adjacent work to damage work of this section. Ensure finished Work is protected from climatic conditions.

END OF SECTION