

SECTION 07290
WEATHER RESISTIVE BARRIERS

PART 1 - GENERAL

1.1 SUMMARY

- .1 Provide air, vapour and moisture barriers as indicated and specified.
- .2 Provide flexible membrane flashing as indicated and specified.

1.2 RELATED SECTIONS

- .1 06100 Rough Carpentry.
- .2 07210 Building Insulation.
- .3 07455 Fibre Reinforced Cementitious Panels.
- .4 07620 Sheet Metal Flashing and Trim.
- .5 08110 Metal Doors and Frames.
- .6 08140 Wood Doors.
- .7 08330 Overhead Door
- .8 08530 Vinyl Windows
- .9 09210 Gypsum Board Assemblies.

1.3 REFERENCES

- .1 CAN/CGSB-51.34-M86, Vapour Barrier, Polyethylene Sheet for use in Building Construction.
- .2 ASTM D779-03 Standard Test Method for Water Resistance of Paper, Paperboard, and Other Sheet Materials by the Dry Indicator Method.

1.4 SUBMITTALS

- .1 Submit in accordance with Division 1 Submittal Procedures.
- .2 Product Data: Submit three copies of manufacturer's specification and installation instructions for each type of air vapour and moisture barrier material specified. Include data substantiating that materials comply with specified requirements.

1.5 QUALITY ASSURANCE

- .1 Use experienced Installers.
- .2 Mock-up:
 - .1 Mock-up the air vapour/moisture barrier systems around one window and one door indicating sequence of work. Mock-up complete with membrane flashing, metal flashings and sealants.
 - .2 Coordinate mock-ups with related sections.
 - .3 Mock-ups shall remain in place as the standard for the work upon Consultant's approval.

1.6 DELIVERY, STORAGE AND HANDLING

- .1 Comply with manufacturer's recommendations for handling, storage and protection during installation.

1.7 PROJECT CONDITIONS

- .1 Attach membrane flashings in accordance with manufacturer's printed recommendations for acceptable weather conditions and temperatures.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Vapour Barrier: Conforming to CGSB 51.34-M86; polyethylene film, 0.152mm (6 mils) thickness in walls, 10 mils under concrete slab.
- .2 Moisture Barrier: (noted as Sheathing Paper or Building Paper on Drawings or Details)
 - .1 Two layers Grade D breather type, 30 minute asphalt saturated building paper. Vapour transmission rating shall be a minimum of 35 grams. Water resistance, indicated in minutes, shall be as tested in compliance with ASTM D 779. Acceptable products:
 - .1 30 minute Heavy Duty Jumbo Tex by The Fortifiber Corporation, or
 - .2 30 minute "Super" by Haltex - Bob Woykin 800-663-0076, or approved alternative.

2.2 FLEXIBLE MEMBRANE FLASHINGS

- .1 Primer: To flexible membrane manufacturer's recommendation.
- .2 Flexible Membrane Flashings: (noted as Peel & Stick, Membrane or Waterproof Membrane on Drawings)
 - .1 Locations: Door and window sills, through wall flashings, sills at wall openings, mechanical and electrical wall penetrations.
 - .1 40 mil. self-adhesive SBS modified asphalt on polyethylene film. Acceptable products:
 - .1 Blueskin SA by Henry Bakor.
 - .2 Or approved alternative.
 - .2 Locations: Roof Areas.
 - .1 Valley flashing.
 - .1 2 ply SBS roofing membrane,

2.3 ACCESSORIES

- .1 Sealant: In accordance with Section 07900 Joint Sealers.

PART 3 - EXECUTION

3.1 EXAMINATION

- .1 Examine substrates and the conditions under which the vapour, air barrier and membrane flashing work is to be performed with Installer present.
- .2 Correct unsatisfactory conditions. Start of work indicates acceptance of conditions.
- .3 Comply with manufacturer's recommendations for environmental conditions.

3.2 BUILDING PAPER INSTALLATION

- .1 Preparation: Ensure surfaces are smooth, clean, dry and in good condition. Remove moisture, grease, machine oil or other foreign material.
- .2 Attach building paper to wood, sheathing board or exterior gypsum with slater's head or plastic capped galvanized nails or galvanized staples with a minimum 1 inch crown.
- .3 Install sufficient fasteners to secure building paper to wall and resist wind forces prior to application of exterior wall covering. Building paper shall be free from holes and breaks other than those created by fasteners.
- .4 Apply building paper horizontally. Apply a double layer at base of wall. Lap subsequent layers over lower layers not less than 50% of the roll width, shingle style to provide double layer over entire installation. Lap vertical joints not less than 6 inches. Flash wall penetrations with specified membrane flashing materials providing a water shedding system.
- .5 Inspection and Repair: Inspect installation thoroughly before covering and make corrections immediately. Repair misaligned or inadequately lapped seams, punctures or other damage with a shingled patch. Repair punctures or other damage as recommended by manufacturer.

3.3 MEMBRANE FLASHING

- .1 Attach flashing membranes, adhesive and sealants in compliance with contract documents. Prime substrates and surfaces in compliance with manufacturer's published instructions. Apply membranes only within the weather windows published by the manufacturer.
- .2 Surfaces which have not received membranes the same day they are primed shall be reprimed prior to membrane application.
- .3 Do not stretch flashings. Apply in such a manner to eliminate stress within flashing material.

3.4 ADJUSTING AND CLEANING

- .1 At completion of installation remove excess material and debris from site and dispose in a legal manner.
- .2 Clean drips or spills of sealants, mastics or primers and leave work in clean, neat condition.
- .3 Repair or replace defects to this installation or defects to other work caused by this installation.

END OF SECTION