

SECTION 072700

AIR BARRIERS

PART 1 GENERAL

1.1 SUMMARY

- A. Provide air barriers and accessories including the following:
 - 1. Self-adhered water-resistive air and vapor barriers.
 - 2. Silicone transition sheets.

1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions for each material and product used. Include manufacturer's HPD, EPD and Cradle to Gate documentation.
- B. Shop Drawings: Submit shop drawings indicating material characteristics, details of construction at foundation, walls, roof, connections, and relationship with adjacent construction.
- C. Samples: Submit two representative samples of each material specified.
- D. Warranty: Submit manufacturer's standard limited warranty against defects in manufacturing.

1.3 QUALITY ASSURANCE

- A. Comply with governing codes and regulations. Provide products of acceptable manufacturers which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.
- B. Mock-Ups: Provide mock-up as required by Architect to demonstrate quality of workmanship.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Self-Adhered Water-Resistive Air and Vapor Barrier, Basis-of-Design: Henry, A Carlisle Company Metal Clad 705FR or equal by GCP, W.R. Meadows.
 - 1. Description: Self-adhered membrane comprised of a rubberized asphalt adhesive factory-applied to a composite facer of cross-laminated HDPE and aluminum foil.
 - 2. Nominal Thickness: 40 mils.
 - 3. Water Vapor Transmission, ASTM E96, Method A & B: 0.01 perm.
 - 4. Fire Performance, ASTM E84: Flame spread index 15, smoke developed index 200.
 - 5. Wall Assembly Burn Testing: NFPA 285, compliant in proposed wall assemblies.
- B. Silicone Transition Sheet, Basis-of-Design: HS-222 by ELBEX, or equal by Dow Corning 123.
 - 1. Description: Translucent blue pre-cured silicone extrusion used to form an airtight, watertight and flexible barrier at above-grade transitions between fenestration to wall joints, roof to wall joints, and other building components to complete the air and water barrier system.
 - 2. Nominal Thickness: 30 mils.
 - 3. Water Vapor Transmission, ASTM E96 Method B: 3.22 perms.
 - 4. Attachment: Compatible sealant.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials and systems in proper relation with adjacent construction. Coordinate with work of other sections. Install over entire area, tightly fitting around penetrations and at perimeters.
- B. Restore damaged components. Clean and protect work from damage during construction.

END OF SECTION