

**Part 1 General****1.1 RELATED REQUIREMENTS**

- .1 Section 04 05 00 – Common Work Results for Masonry
- .2 Section 04 05 12 – Masonry Mortar and Grout
- .3 Section 04 05 19 – Masonry Anchorage and Reinforcing
- .4 Section 04 21 13 – Brick Masonry
- .5 Section 07 62 00 – Sheet Metal Flashing and Trim

**1.2 REFERENCES**

- .1 ASTM International Inc.
  - .1 ASTM D2240-15, Standard Test Method for Rubber Property - Durometer Hardness.
- .2 Canadian Standards Association (CSA International)
  - .1 CAN/CSA A371-14, Masonry Construction for Buildings.
- .3 South Coast Air Quality Management District (SCAQMD), California State (SCAQMD)
  - .1 SCAQMD Rule 1168-05, Adhesives and Sealants Applications.

**1.3 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
  - .1 Provide manufacturer's printed product literature, specifications and datasheets. Include product characteristics, performance criteria, and limitations.
    - .1 Material including :
      - .1 Movement joint filler.
      - .2 Lap adhesive.
      - .3 Mechanical fasteners.
      - .4 Reglets.
      - .5 Brick vents.
    - .2 Moisture control material samples, illustrating colour and colour range, size, and shape. Include:
      - .1 Weep hole vents.
      - .2 Mortar diverters.
      - .3 Grout screens.
    - .3 Flashing material samples, illustrating colour and colour range, size, shape, and profile. Include as specified:
      - .1 Sheet metal flashings.

- .3 Shop Drawings:
  - .1 Provide drawings stamped and signed by professional engineer registered or licensed in Province of Quebec, Canada.
  - .2 Drawings to indicate the following :
    - .1 Shop drawings consist of flashing and installation details. Indicate sizes, spacing, location and quantities of fasteners.

#### **1.4 QUALITY ASSURANCE**

- .1 Test Reports: submit certified test reports including sand gradation tests in accordance with CAN/CSA-A179 showing compliance with specified performance characteristics and physical properties, and in accordance with Section 04 05 00 - Common Work Results for Masonry.
- .2 Certificates: product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.
- .3 Manufacturer's Instructions: submit the following:
  - .1 Submit installation instructions for fillers, adhesives, reglets, brick vents, weeps, vents, diverters, screens, flashings.

#### **1.5 FIELD MEASUREMENTS**

- .1 Make field measurements necessary to ensure proper fit of members.

#### **1.6 DELIVERY, STORAGE, AND HANDLING**

- .1 Deliver, store and handle masonry accessories in accordance with, Section 01 61 00 - Common Product Requirements supplemented as follows:
- .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3 Storage and Handling Requirements
  - .1 Store materials off ground, in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
  - .2 Store and protect[specified materials from nicks, scratches, and blemishes.
  - .3 Replace defective or damaged materials with new.

### **Part 2 Products**

#### **2.1 MATERIALS**

- .1 Movement joint filler: purpose-made elastomer, durometer hardness to ASTM D2240 of size and shape indicated.
  - .1 Use low VOC products in compliance with the SCAQMD Rule 1168.
  - .2 Material type: fibre board expanded polyethylene rubber cork self-expanding cork closed cell neoprene.
- .2 Lap adhesive: recommended by masonry flashing manufacturer. Use low VOC products in compliance with the SCAQMD Rule 1168.

- .3 Weep hole vents: purpose-made PVC galvanized steel polypropylene fibre filter, colour grey.
- .4 Mechanical fasteners: recommended by flashing manufacturer to suit project requirements.
- .5 Brick vents:
  - .1 Material: aluminum, 38 mm deep frame.
  - .2 Blades: aluminum, overlapping, 45 degree angle opposed blade damper with maximum free area 39%.
  - .3 Sizes : as required
  - .4 Provide 458 x 356 mm mesh aluminum insect screen.
  - .5 Finish frame blades: 204-R1 clear anodize.

## **2.2 MOISTURE CONTROL**

- .1 Cell vents: polypropylene plastic, honeycomb design.
- .2 Colour: clear.
- .3 Mortar diverters: shaped and sized to suit cavity spaces.
  - .1 Cavity space sizes: indicated on plans
  - .2 Manufactures from recycled material.
- .4 Grout Screens: 6 mm square monofilament screen is fabricated from high-strength, non-corrosive polypropylene polymers to isolate flow of grout in designated areas.

## **2.3 FLASHING**

- .1 Refer to section 07 62 00 – Sheet Metal Flashing and Trim.

## **Part 3 Execution**

### **3.1 INSPECTION**

- .1 Verification of Conditions: verify that conditions of substrate previously installed under other Sections or Contracts are acceptable for masonry accessories installation in accordance with manufacturer's written instructions.
  - .1 Visually inspect substrate in presence of Departmental Representative.
  - .2 Inform Departmental Representative of unacceptable conditions immediately upon discovery.
  - .3 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from Departmental Representative.

### **3.2 INSTALLATION: MATERIALS**

- .1 Install continuous movement joint fillers in movement joints at locations indicated on drawings.
- .2 Lap adhesive: apply adhesive to flashing lap joints.

- .3 Mechanical fasteners: install fasteners to suit application and in accordance with manufacturer's written installation instructions.
- .4 Reglets: install reglets at locations indicated on drawings.
- .5 Brick vents: install brick vents at locations indicated on drawings.

### **3.3 INSTALLATION: MOISTURE CONTROL**

- .1 Install weep hole vents in vertical joints immediately over flashings, in exterior wythes of cavity wall and masonry veneer wall construction, at maximum horizontal spacing of 600 mm on centre.
- .2 Mortar diverters: install purpose made diverters in cavities where indicated and as directed, size and shape to suit purpose and function.
- .3 Grout screens: install purpose made diverters in wall cavities, at the foundation, at intermediate lintels, at door heads, etc., and as directed, size and shape to suit purpose and function.

### **3.4 INSTALLATION: FLASHINGS**

- .1 Build in flashings in masonry in accordance with CAN/CSA A371.
  - .1 Install flashings under exterior masonry bearing on foundation walls, slabs, shelf angles, and steel angles over openings, and at base of cavity wall and where cavity is interrupted by horizontal members or supports and as shown on drawings. Install flashings under weep hole courses and as indicated.
  - .2 In cavity walls and veneered walls, carry flashings from front edge of exterior masonry, under outer wythe, then up backing not less than 150 mm, and as follows:
    - .1 For masonry backing embed or bond flashing 25 mm in joint.
    - .2 For concrete backing, insert or bond flashing into reglets.
  - .3 Lap joints 150 mm and seal with adhesive.
- .2 Form flashing (end dams) at lintels, sills and wall ends to prevent water from travelling horizontally past flashing ends.
- .3 Install vertical flashing where outer veneer returns at window or door jambs, to prevent contact of veneer with inner wall.

### **3.5 CLEANING**

- .1 Clean in accordance with Section 01 74 11 - Cleaning.
  - .1 Remove surplus materials, excess materials, rubbish, tools and equipment.

**END OF SECTION**