Building Envelope
MTI MASONRY TECHNOLOGY INCORPORATED
Moisture Management Solutions

SECTION 04 05 23
MASONRY ACCESSORIES

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PART 1 GENERAL

1.1 SECTION INCLUDES

A. Rainscreen Drainage Planes:
   1. Full Brick Veneers:
      a. Sure Cavity. (SC 5016 and SC 5032)
      b. 10MM Sure Cavity. (SCMM 2516 and SCMM 2532)
      c. Gravity Cavity. (GC 1816 and GC 1832)
   2. Full Stone Veneers:
      a. 10MM Sure Cavity. (SCMM 2516 and SCMM 2532)
   3. Adhered Thin Brick, Adhered Thin Manmade Stone, Adhered Thin Natural Stone and Three-Course Stucco Veneers:
      a. Sure Cavity. (SC 5016 and SC 5032)
      b. Gravity Cavity. (GC 1816 and GC 1832)
   4. Cladding (Cladded Siding):
      a. Sure Cavity. (SC 5016 and SC 5032)
      b. Sure Cavity No Fabric. (SC 5016NF and SC 5032NF)
      c. Gravity Cavity. (GC 1816 and GC 1832)
      d. Gravity Cavity No Fabric. (GC 1816NF and GC 1832NF)

B. Single-Wythe (CMU or Jumbo Brick) Wall Drainage Plane:
   1. Interior Above Grade (CMU or Jumbo Brick) Wall:
      a. Perforated Control Cavity. (PCC 4816)
      b. Perforated Control Cavity. (PCC 4832)
      c. 10MM Perforated Control Cavity. (PCC 2416)
      d. 10MM Perforated Control Cavity. (PCC 2432)
   2. Interior Below Grade Drainage Plane:
      a. Control Cavity. (CC 4800)
      b. 10MM Control Cavity. (CC 4810)
   3. Interior Below Grade (Basement) Floor Retrofit Cap Slab Slip Sheet/Drainage Plane:
      a. Control Cavity. (CC 4800)
      b. 10MM Control Cavity. (CC 4810)

C. Exterior Horizontal Low Slope Drainage Plane and Slip Sheet:
   1. Sure Cavity. (SC 5016 & SC 5032)

D. Window Rough Opening Sill Drainage Plane:
   1. Window Drainage Plane. (WDP 5000)

E. Weep Systems:
   1. Full Brick Veneers:
      a. Cavity Weep. (CV 5010)
      b. Wall Opening Weeps. (WOW 9095)

2. Full Stone Veneers:
    a. Stone Cavity Weep. (SCV 5012)
    b. Wall Opening Weeps. (WOW 9095)
3. Adhered Thin Brick, Thin Manmade Stone, Thin Natural Stone and Three Course Stucco Veneers:
    a. Wall Opening Weeps. (WOW 9095)
    b. L & R Weep Screed. (LR 3501)
4. Hollow Core Masonry Units (CMU - Jumbo Brick) as Single Wythe Walls:
    a. Cavity Weep. (CV 5010)
5. Hollow Core Masonry Units (CMU - Jumbo Brick) as Veneers:
    a. Core Cavity Weep. (CCV 5020)
6. Hollow Core Masonry Units (CMU - Jumbo Brick) as Below Grade Foundation Walls:
    a. Vent Mat. (VM 9025)
7. Steel Lintel:
    a. Head Joint Weeps. (HJW 3845)
8. Concealed Steel Lintel:
    a. Concealed Steel Lintel/Shelf Angle Weep System. (CLW 9040)
9. Shelf Angle:
    a. Head Joint Weeps. (HJW 3845)
    b. Vent Strip. (VS 3845)
10. Concealed Shelf Angle:
    a. Concealed Steel Lintel/Shelf Angle Weep System. (CLW 9040)
    b. Vent Strip. (VS 3845)

F. Masonry Accessories:
1. L & R Weep Screed. (LR 3501)
2. Weep Screed Deflector. (WSD 1309)
3. Edge Metal. (MEM 3168)
4. Vented Edge Metal. (VMEM 3168)
5. Moisture Diverter. (DS 2858)
6. Mortar Belt. (MB 3550)
7. Trash Mortar Diverter. (TMD 9548)
8. Floor Edging. (FE 8555)
9. H Cove. (HC 3504)
10. Sump Basket. (SF30PR)

1.2 RELATED SECTIONS

A. Section 03 30 00 - Cast-in-Place Concrete.

B. Section 04 20 00 - Unit Masonry.

C. Section 04 70 00 - Manufactured Masonry.

D. Section 06 10 00 - Rough Carpentry.

E. Section 07 27 00 - Air Barriers.

F. Section 09 26 00 - Veneer Plastering.

G. Section 09 66 16 - Terrazzo Floor Tile.

1.3 REFERENCES

A. ASTM International (ASTM):
1. ASTM C 1338 - Standard Test Method for Determining Fungi Resistance of Insulation Materials and Facings; 2008.

2. ASTM D 1621 - Standard Test Method for Compressive Properties of Rigid Cellular Plastics; 2010.
3. ASTM D 4533 - Standard Test Method for Trapezoid Tearing Strength of Geotextiles; 1996 (2209).
4. ASTM D 4632 - Standard Test Method for Grab Breaking Load and Elongation of Geotextiles; 1991 (2008).
5. ASTM D 4833 - Standard Test Method for Index Puncture Resistance of Geotextiles, Geomembranes, and Related Products; 2000 (2007).
6. ASTM SEQ CHAPTER 1E 96/E 96M - Standard Test Methods for Water Vapor Transmission of Materials; 2005.
7. ASTM E 2273 - Standard Test Method for Determining the Drainage Efficiency of Exterior Insulation and Finish Systems (EIFS) Clad Wall Assemblies; 2003.
8. ASTM G 154 - Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials; 2000a (2006).

B. CAN/CGSB 148.1 No. 7.3 - Methods of Testing Geotextiles and Geomembranes Grab Tensile Test for Geotextiles; 1992.

C. ICC-ES EG 114 - Low Temperature Flux.

1.4 SUBMITTALS

A. Submit under provisions of Section 01 30 00 - Administrative Requirements.

B. Product Data: Manufacturer's data sheets on each product to be used, including:
1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Installation methods.

C. Shop Drawings: Provide drawings of special joint conditions.

D. Sustainable Design Submittals:
1. Submit invoices and documentation from manufacturer of the amounts of pre-consumer and post-consumer recycled content for products specified.
2. Submit invoices and documentation showing manufacturing locations and origins of materials for products manufactured and sourced within 500 miles of project location.

E. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square representing actual product, color, and patterns.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: Minimum 5 year experience manufacturing similar products.

B. Installer Qualifications: Minimum 2 year experience installing similar products.

C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
1. Finish areas designated by Architect.
2. Do not proceed with remaining work until workmanship is approved by Architect.
3. Refinish mock-up area as required to produce acceptable work.

1.6 PRE-INSTALLATION MEETINGS

A. Convene minimum two weeks prior to starting work of this section.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Delivery and Acceptance Requirements: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.

B. Storage and Handling Requirements: Store materials in clean, dry, inside area in accordance with manufacturer's instructions. Protect materials from damage during handling and installation.

1.8 PROJECT CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

1.9 SEQUENCING

A. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

1.10 WARRANTY

A. Manufacturer Warranty: Submit manufacturer's standard 20 year limited warranty.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: Masonry Technology, Inc, which is located at: 24235 Electric St. P. O. Box 214; Cresco, IA 52136; Toll Free Tel: 800-879-3348; Tel: 563-547-1122; Fax: 563-547-1133; Email:request info (info@mtidry.com); Web:www.mtidry.com

B. Substitutions: Not permitted.

C. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

2.2 RAINSCREEN DRAINAGE PLANE - SURE CAVITY (SC 5016 and SC 5032)

A. Description: Maintains separation between thin veneer cementitious materials and moisture resistance system on structural substrates creating drainage plane system for cavity moisture to drain down and out of wall.

B. Materials: High impact polystyrene sheets, 0.024 inch (0.61 mm) thick, formed with corrugations and a spunbond polypropylene fabric, charcoal color, attached on one side with a 4 inch (102mm) overlapping skirt on one edge.
   1. Roll Length: 50 feet (15.24 m).
   2. Roll Width: 15.75 inches (324 mm) (SC5016).
   3. Roll Width: 31.5 inches (800 mm) (SC5032).
   4. Squared - Channel Depth: 3/16 inch (4.76 mm).

C. Performance Criteria:
   1. Fungi Resistance: No Growth; ASTM C 1338.
   2. Ultra-Violet (UV) Exposure: No Peeling, chipping, cracking, flaking, pitting, crazing, erosion or other deleterious effects were observed under a 5X magnification; ASTM G 154.
   3. Drainage Efficiency with EIFS Cladding: Pass; ASTM E 2273.
   4. Water Vapor Transmission: ASTM E 96/E 96M.
      a. 9.60 grains/hr sq ft.

b. Permeance (perms) grains/hr sq ft - 23.45 in Hg.
c. Permeability perm-inches - 8.79.
5. Load: 583 lbf at 10 percent strain; ASTM D 1621.
6. Compressive Strength: 36.1 psi at 10 percent strain; ASTM D 1621.
7. Compressive Modulus: 362 psi; ASTM D 1621.
8. Fabric Tearing Strength: 42.2 lbs, maximum; ASTM D 4533.
9. Breaking Load: ASTM D 4632.
a. Machine Direction: 207 lbs.
b. Transverse Direction: 156 lbs.
10. Puncture Resistance: 44.4 lbs; ASTM D 4833.
11. Low Temperature Flex: No cracks in area of bend; ICC-ES EG 114.

D. Description: Maintains separation between thin veneer cementitious materials and moisture resistance system on structural substrates creating drainage plane system for cavity moisture to drain down and out of wall

E. Materials: High impact polystyrene sheets, 0.024 inch (0.61mm) thick, formed with corrugations and a spunbond polypropylene fabric, charcoal color, attached on one side with a 4 inch (102mm) overlapping skirt on one edge.
1. Roll Length: 25 feet (7.6 m).
2. Roll Width: 15.75 inches (324 mm) (SCMM2516).
3. Roll Width: 31.5 inches (800 mm) (SCMM2532).
4. Angled - Channel Depth: 7/16 inch (11mm).

F. Performance Criteria:
1. Fungi Resistance: No Growth; ASTM C 1338.
2. Ultra-violet (UV) Exposure: No Peeling, chipping, cracking, flaking, pitting, crazing, erosion or other deleterious effects were observed under a 5X magnification; ASTM G 154.
3. Drainage Efficiency with EIFS Cladding: Pass; ASTM E 2273.
4. Water Vapor Transmission: ASTM E 96/E 96M.
a. 4.14 grains/hr sq ft.
b. Permeance (perms) grains/hr sq ft - 10.12 in Hg.
c. Permeability perm-inches - 4.47.
5. Compressive Strength: At 10 percent strain; ASTM D 1621.
a. 4.9 psi (SCMM 2532).
b. 5.6 psi (SCMM 2516).
6. Puncture Resistance: 44.4 lbs; ASTM D 4833.
7. Low Temperature Flex: No cracks in area of bend; ICC-ES EG 114.
8. Tensile Strength: 10 kN/m; CAN/CGSB 148.1 No. 7.3.
9. Elongation at Maximum Load: 32 percent; CAN/CGSB 148.1 No. 7.3.

2.3 RAINSCREEN DRAINAGE PLANE - GRAVITY CAVITY (GC 1816 and GC 1832)

A. Description: Maintains separation between thin veneer cementitious materials and moisture resistance system on structural substrates creating drainage plane system for cavity moisture to drain down and out of wall.

B. Materials: High impact polystyrene sheets, 0.024 inch (0.61mm) thick, formed with corrugations and a spun bond polypropylene fabric, white color, attached on one side with a 4 inch (102 mm) overlapping skirt on one edge.
1. Roll Length: 76 feet (23 m).
2. Roll Width: 15.75 inches (324 mm) (GC 1816).
3. Roll Width: 31.5 inches (800 mm) (GC 1832).
4. Curved - Channel Depth: 1/8 inch (3.25 mm).

C. Performance Criteria:

1. Fungi Resistance: No Growth; ASTM C 1338.
2. Ultra-Violet (UV) Exposure: No Peeling, chipping, cracking, flaking, pitting, crazing, erosion or other deleterious effects were observed under a 5X magnification; ASTM G 154.

2.4 CLADDING RAINSCREEN DRAINAGE PLANE - SURE CAVITY NO FABRIC (SC 5016NF & SC 5032NF)

A. Description: Creates a 3/16 inch (4.8 mm) vertical void. A continuous and predictable separation between the backside of the rainscreen (cladding siding veneer) and the face of the (WRB, rigid insulation, etc.).

B. Materials: High impact polystyrene sheets, 0.024 inch (0.61mm) thick, formed with corrugations.
1. Roll Length: 50 feet (15.24 m).
2. Roll Width: 15.75 inches (324 mm) (SC 5016NF).
3. Roll Width: 31.5 inches (800 mm) (SC 5032NF).
4. Squared Channel Depth: 3/16 inches (4.76mm).

C. Performance Criteria:
1. Fungi Resistance: No Growth: ASTM C 1338.
2. Ultra-Violet (UV) Exposure: No peeling, chipping, cracking, flaking, pitting, crazing erosion or other deleterious effects were observed under a 5X magnification; ASTM G 154.
3. Drainage efficiency with EIFS Cladding: Pass; ASTM E 2273.
4. Water Vapor Transmission: ASTM E 96/E 96M.
   a. 9.60 grains/hr sq ft.
   b. Permeance (perms) grains/hr sq ft - 23.45 in Hg.
   c. Permeability perm-inches - 8.79.
5. Load: 583 lbf at 10 percent strain; ASTM D 1621.
6. Compressive Strength: 36.1 psi at 10 percent strain; ASTM D 1621.
7. Compressive Modulus: 362 psi; ASTM D 1621.
8. Breaking Load: ASTM D 4632.
   a. Machine Direction: 207 lbs.
   b. Transverse Direction: 156 lbs.
9. Puncture Resistance: 44.4 lbs; ASTM D 4833.
10. Low Temperature Flex: No cracks in area of bend; ICC-ES EG 114.

2.5 CLADDING RAINSCREEN DRAINAGE PLANE - GRAVITY CAVITY NO FABRIC (GC 1816NF & GC 1832NF)

A. Description: Creates a 1/8 inch (3.25 mm) vertical void. A continuous and predictable separation between the backside of the rainscreen (cladding/siding veneer) and the face of the (WRB, rigid insulation etc.).

B. Materials: impact polystyrene sheets, 0.024 inch (0.61mm) thick, formed with corrugations.
1. Roll Length: 76 feet.
2. Roll Width: 15.75 inches (324 mm) (GC 1816NF)
3. Roll Width: 31.5 inches (800 mm) (GC 1832NF)
4. Curvred - Channel Depth 1/8 inch (3.25mm).

C. Performance Criteria:
1. Fungi Resistance: No Growth; ASTM C 1338.
2. Ultra-Violet (UV) Exposure: No peeling, chipping, cracking, flaking, pitting, crazing erosion or other deleterious effects were observed under a 5X magnification; ASTM G 154.

2.6 SINGLE-WYTHE MOISTURE CONTROL - PERFORATED CONTROL CAVITY (PCC 4816 & PCC 4832)

A. Description: Maintains separation between interior surface of single-wythe concrete masonry unit (CMU) substrate and moisture sensitive interior finished walls creating drainage system that allows moisture to drain down and out of walls.

B. Materials: High impact polystyrene sheets, 0.024 inch (0.61 mm) thick, formed with corrugations and a cross-woven polyolefin fabric, green color, attached on one side with a 4 inches (102 mm) overlapping skirt on one edge.
   1. Roll Length: 50 feet (15.24 m).
   2. Roll Width: 15.75 inches (324 mm) (PCC4816).
   3. Roll Width: 31.5 inches (800 mm) (PCC4832).
   4. Squared - Channel Depth: 3/16 inch (4.76 mm).

C. Performance Criteria:
   1. Fungi Resistance: No Growth; ASTM C 1338.
   2. Ultra-violet (UV) Exposure: No Peeling, chipping, cracking, flaking, pitting, crazing, erosion or other deleterious effects were observed under a 5X magnification; ASTM G 154.
   3. Load: 583 lbf at 10 percent strain; ASTM D 1621.
      a. Compressive Strength: 36.1 psi at 10 percent strain; ASTM D 1621.
      b. Compressive Modulus: 362 psi; ASTM D 1621.

2.7 SINGLE-WYTHE MOISTURE CONTROL - 10mm PERFORATED CONTROL CAVITY (PCC 2416 & PCC 2432)

A. Description: Maintains separation between interior surface of single-wythe concrete masonry unit (CMU) substrate and moisture sensitive interior finished walls creating drainage system that allows moisture to drain down and out of walls.

B. Materials: High impact polystyrene sheets, 0.024 inch (0.61 mm) thick, formed with corrugations and a cross-woven polyolefin fabric, green color, attached on one side with a 4 inches (102 mm) overlapping skirt on one edge.
   1. Roll Length: 25 feet (7.62 m).
   2. Roll Width: 15.75 inches (324 mm) (PCC2416).
   3. Roll Width: 31.5 inches (800 mm) (PCC2432).
   4. Angled - Channel Depth: 7/16 inch (11 mm).

C. Performance Criteria:
   1. Fungi Resistance: No Growth; ASTM C 1338.
   2. Ultra-violet (UV) Exposure: No Peeling, chipping, cracking, flaking, pitting, crazing, erosion or other deleterious effects were observed under a 5X magnification; ASTM G 154.
   3. Compressive Strength: At 10 percent strain; ASTM D 1621.
      a. 4.9 psi (PCC 2432).
      b. 5.6 psi (PCC 2416).

2.8 CAVITY DRAINAGE PLANES - CONTROL CAVITY (CC 4800)

A. Description: Provides separation between wood framing, insulation and gypsum board from concrete or masonry wall substrates and providing ventilation of these cavities.

B. Materials: High impact polystyrene sheets, 0.024 inch (0.61 mm) thick, formed with corrugations.
   1. Roll Length: 50 feet (15.24 m).
   2. Roll Width: 31.5 inches (800 mm).

3. Squared - Channel Depth: 3/16 inch (4.76 mm).

C. Performance Criteria:
1. Fungi Resistance: No Growth; ASTM C 1338.
2. Ultra-violet (UV) Exposure: No Peeling, chipping, cracking, flaking, pitting, crazing, erosion or other deleterious effects were observed under a 5X magnification; ASTM G 154.
3. Load: 583 lbf at 10 percent strain; ASTM D 1621.
   a. Compressive Strength: 36.1 psi at 10 percent strain; ASTM D 1621.
   b. Compressive Modulus: 362 psi; ASTM D 1621.

2.9 CAVITY DRAINAGE PLANES - 10mm CONTROL CAVITY (CC 4810)

A. Description: Provides separation between wood framing, insulation and gypsum board from concrete or masonry wall substrates and providing ventilation of these cavities.

B. Materials: High impact polystyrene sheets, 0.024 inch (0.61 mm) thick, formed with corrugations.
1. Roll Length: 50 feet (15.24 m).
2. Roll Width: 31.5 inches (800 mm).
3. Angled - Channel Depth: 7/16 inch (11mm).

C. Performance Criteria:
1. Fungi Resistance: No Growth; ASTM C 1338.
2. Ultra-violet (UV) Exposure: No Peeling, chipping, cracking, flaking, pitting, crazing, erosion or other deleterious effects were observed under a 5X magnification; ASTM G 154.
3. Compressive Strength: 5.4 psi at 10 percent strain; ASTM D 1621.

2.10 HORIZONTAL LOW SLOPE DRAINAGE PLANE AND SLIP SHEET FOR STONE OVERLAYS - SURE CAVITY (SC 5016 and SC 5032)

A. Description: Creates a horizontal void between the bottom side of the stone overlay or overlay setting mortar and the waterproofing system. It is a drainage plane and a slip-sheet.

B. Materials: High impact polystyrene sheets, 0.024 inch (0.61 mm) thick, formed with a 4 inches (102 mm) overlapping skirt on one edge.
1. Roll Length: 50 feet (15.24 m).
2. Roll Width: 15.75 inches (324 mm) (SC 5016).
3. Roll Width: 31.5 inches (800 mm) (SC 5032).
4. Squared - Channel Depth: 3/16 inch (4.76mm).

C. Performance Criteria:
1. Resistance: No Growth; ASTM C 1338.
2. Ultra-violet (UV) Exposure: No peeling, chipping, cracking, flaking, pitting, crazing erosion or other deleterious effects were observed under a 5X magnification; ASTM G 154.
3. Drainage Efficiency with EIFS Cladding: Pass; ASTM E 2273.
4. Water Vapor Transmission: ASTM E 96/E 96M.
   a. 9.60 grains/hr sq ft.
   b. Permeance (perms) grains/hr sq ft - 23.45 in Hg.
   c. Permeability perm-inches - 8.79.
5. Load: 583 lbf at 10 percent strain; ASTM D 1621.
6. Compressive Strength: 36.1 psi at 10 percent strain; ASTM D 1621.
7. Compressive Modulus: 362 psi; ASTM D 1621.
8. Tearing Strength: 42.2 lbs, maximum; ASTM D 4533.
9. Breaking Load: ASTM D 4632

a. Machine Direction: 207 lbs.
b. Transverse Direction: 156 lbs.

10. Puncture Resistance: 44.4 lbs; ASTM D 4833.
11. Low Temperature Flex: No cracks in area of bend.

2.11 WINDOW SUB-SILL DRAINAGE PLANES WINDOW DRAINAGE PLANE (WDP 5000)

A. Description: Creates a horizontal and vertical void that separates the bottom side of the window frame from the top (slope to drain) sill pan flashing and the back side of the veneer from the face of the sill pan flashing.

B. Materials: High impact polystyrene sheets, 0.024 inch (0.61 mm) thick, formed with corrugations and bent into L-Shape, 5 inches (127 mm) wide by 9 inches (229 mm) high, to fit on top of sub-sill area of window rough opening prior to window installation.
1. Length: 4 feet (1.2 m).
2. Curved - Channel Depth: 1/8 inch (3.25mm).
3. Window Drainage Plane - WDP 5000

C. Performance Criteria:
1. Fungi Resistance: No Growth; ASTM C 1338.
2. Ultra-Violet (UV) Exposure: No Peeling, chipping, cracking, flaking, pitting, crazing, erosion or other deleterious effects were observed under a 5X magnification; ASTM G 154.

2.12 WEEP SYSTEM FOR FULL BRICK VENEERS

A. Cavity Weep (CV 5010):
1. Description: Forms the bottom side of the bed joint of mortar to create tunnels/channels that reach from the face of the masonry unit (brick) to the backside of the masonry unit into the cavity of the full brick veneer wall or into the vertical drainage plane (the rainscreen drainage plane) created by Sure Cavity (SC 5016 or SC 5032) or 10MM Sure Cavity (SCMM 2516 or SCMM 2532) or Gravity Cavity (GC 1832)
2. Materials: High impact polystyrene sheets, 0.024 inch (0.61 mm) thick, formed with corrugations.
a. Weep Legs: 2-1/4 inches (57 mm) wide at 9-1/2 inches (242 mm) on center.
b. Continuous Belt Width: 1 inch (25 mm).
c. Overall Width: 6 inches (152 mm).
d. Length: 25 feet (7.6 m).
e. Squared - Channel Depth: 3/16 inch (4.76 mm).
f. Color: Translucent.
3. Performance Criteria:
a. Fungi Resistance: No Growth; ASTM C 1338.
b. Ultra-violet (UV) Exposure: No Cracking, checking, crazing, erosion or other characteristics that might affect performance; ASTM G 154.

B. Wall Opening Weeps (WOW 9095):
1. Description: Forms the bottom side of the bed joint of mortar to create tunnels/channels that reach from the face of the masonry unit (brick) to the back side of the masonry unit into the cavity of the full brick veneer wall or into the vertical drainage plane (the rainscreen drainage plane) created by Sure Cavity (SC 5016 / SC 5032), Gravity Cavity (GC 1832) or 10MM Sure Cavity (SCMM 2516 or SCMM 2532).
2. Materials: High impact polystyrene sheets, 0.024 inch (0.61 mm) thick, formed with corrugations and bent into L-Shape, 9 inches (229 mm) on one leg by 5 inches (127 mm) on other leg.
a. Width: 2 1/2 inches (63.5 mm).
b. Squared - Channel Depth: 3/16 inch (4.76mm).

c. Color: Translucent.

3. Performance Criteria:
   a. Fungi Resistance: No Growth; ASTM C 1338.
   b. Ultra-violet (UV) Exposure: No Cracking, checking, crazing, erosion or other characteristics that might affect performance; ASTM G 154.

2.13 WEEP SYSTEMS FOR FULL STONE VENEERS

A. Stone Cavity Weep (SCV 5012):
   1. Description: Forms the bottom side of the bed joint of mortar to create tunnels/channels that reach from the face of the masonry unit (full depth stone 3 inches (76 mm)minimum 10 inches (254 mm) maximum) into the cavity at the backside of full depth stone veneer or into the vertical drainage plane (the rainscreen drainage plane) created by 10MM Sure Cavity (SCMM 2516 or SCMM 2532)
   2. Materials: High impact polystyrene sheets, 0.024 inch (0.61 mm) thick, formed with corrugations.
      a. Weep Legs: 2-1/4 inches (57 mm) wide at 9-1/2 inches (242 mm) on center.
      b. Continuous Belt Width: 1 inch (25 mm).
      c. Overall Width: 12 inches (305 mm).
      d. Length: 25 feet (7.62 m).
      e. Squared - Channel Depth: 3/16 inch (4.76 mm).
      f. Color: Translucent.
   3. Performance Criteria:
      a. Fungi Resistance: No Growth; ASTM C 1338.
      b. Ultra-violet (UV) Exposure: No Cracking, checking, crazing, erosion or other characteristics that might affect performance; ASTM G 154.

B. Wall Opening Weeps (WOW 9095):
   1. Description: Forms the bottom side of the bed joint of mortar to create tunnels/channels that reach from the face of the masonry unit (full depth stone 3 inch minimum to 6 inches (76 mm) maximum) into the cavity at the backside of the full depth stone veneer or into the vertical drainage plane (The rainscreen drainage plane) created by 10MM Sure Cavity (SCMM 2516 or SCMM 2532).
   2. Materials: High impact polystyrene sheets, 0.024 inch (0.61 mm) thick, formed with corrugations and bent into L-Shape, 9 inches (229 mm) on one leg by 5 inches (127 mm) on other leg.
      a. Width: 2 1/2 inches (63.5 mm).
      b. Squared - Channel Depth: 3/16 inch (4.76 mm).
      c. Color: Translucent.
   3. Performance Criteria:
      a. Fungi Resistance: No Growth; ASTM C 1338.
      b. Ultra-violet (UV) Exposure: No Cracking, checking, crazing, erosion or other characteristics that might affect performance; ASTM G 154.

2.14 WEEP SYSTEMS FOR ADHERED THIN BRICK, THIN MANMADE STONE, THIN NATURAL STONE AND THREE COURSE STUCCO VENEERS

A. Wall Opening Weeps (WOW 9095):
   1. Description: Forms the bottom edge of scratch coat of mortar and the bottom edge of the adhered thin brick, thin manmade stone, thin natural stone and three course stucco veneer adhering mortar and grouting mortar at horizontal terminations (tops of windows - door and wall openings and at horizontal top surfaces of non-frost affected details (stoops - ledges etc.) to create tunnels/channels that reach from the face of the adhered veneer into the vertical drainage plane (the rainscreen drainage plane) created by Sure Cavity (SC 5016 or SC 5032) or Gravity Cavity (GC 1832).
   2. Materials: High impact polystyrene sheets, 0.024 inch (0.61 mm) thick, formed with corrugations and bent into L-Shape, 9 inches (229mm) on one leg by 5 inches

(127mm) on other leg.
a. Width: 2-1/2 inches (63.5 mm).
b. Squared - Channel Depth: 3/16 inch (4.76 mm).
c. Color: Translucent.

3. Performance Criteria:
a. Fungi Resistance: No Growth; ASTM C 1338.
b. Ultra-violet (UV) Exposure: No Cracking, checking, crazing, erosion or other characteristics that might affect performance; ASTM G 154.

B. L & R Weep Screed (LR 3501):
1. Description: A sheet metal device that creates a bottom of adhered thin brick, thin manmade stone, thin natural stone and three course stucco veneer wall termination detail, that encapsulates and weeps the bottom edge of the WRB, the bottom edge of the rainscreen drainage plane Sure Cavity (SC 5016/SC5032) or Gravity Cavity (GC 1832), The bottom edge of the self-furring expanded metal lath and scratch coat, a metal detail that bridges the construction joint created by the bottom of the wall sheathing and the top outside edge of the foundation wall.
2. Material: 26 gauge galvanized steel, bent into "V" shaped channel, with long vertical leg and short leg at 70 degree angle out from other leg and slots punched into bottom edge.
a. Length of Long Vertical Leg: 3-1/2 inches (88.9 mm).
b. Anchor Holes in Vertical Leg: 3/16 inch (4.76 mm) diameter.
1) Vertical Spacing: 1-5/16 inches (33.3 mm) apart.
2) Horizontal Spacing: 2-3/4 inches (69.8mm) apart.
c. Length of Short Leg: 1-1/32 inch (26.19 mm).
d. Length of Slots: 1 inch (25.4 mm)
e. Space between Slots: 1-3/4 inches (44 mm).
f. Length: 8 feet (2.4 m).

2.15 WEEP SYSTEMS FOR HOLLOW CORE MASONRY UNITS (CMU - JUMBO BRICK) AS SINGLE WYTHE WALLS

A. Cavity Weep (CV 5010):
1. Description: Forms the bottom side of the bed joint of mortar on the exterior face shell to create tunnels/ channels that reach from the outside surface of the exterior face shell into the open core of a single wythe (CMU or jumbo brick) wall.
2. Materials: High impact polystyrene sheets, 0.024 inch (0.61 mm) thick, formed with corrugations.
a. Weep Legs: 2-1/4 inch (57 mm) wide at 9-1/2 inches (242 mm) on center.
b. Continuous Belt Width: 1 inch (25 mm).
c. Overall Width: 6 inches (152 mm).
d. Length: 25 feet (7.6 m).
e. Squared - Channel Depth: 3/16 inch (4.76 mm).
f. Color: Translucent.
3. Performance Criteria:
a. Fungi Resistance: No Growth; ASTM C 1338.
b. Ultra-violet (UV) Exposure: No Cracking, checking, crazing, erosion or other characteristics that might affect performance; ASTM G 154.

2.16 WEEP SYSTEMS FOR HOLLOW CORE MASONRY UNITS (CMU - JUMBO BRICK) AS VENEERS

A. Core Cavity Weep (CCV 5020):
1. Description: Forms the bottom side of the bed joint of mortar on the interior and exterior face shell to create tunnels/channels that connect the cavity, to the core, to the exterior of the hollow core masonry unit veneer wall. The cores/cells of the masonry units shall be no less than 3 inches (76.2 mm) wide.

2. Material: High impact polystyrene sheets, 0.024 inch (0.61mm) thick, formed with corrugations.
    a. Weep Legs: 2-1/2 inches (63.5 mm) wide, offset on each side of continuous belt at 9-1/2 inches (241.3 mm) on center.
    b. Continuous Belt Width: 2 inches (50.8 mm).
    c. Overall Width: 12 inches (304.8 mm).
    d. Length: 25 feet (7.6 m).
    e. Squared - Channel Depth: 3/16 inch (4.76 mm).
    f. Color: Translucent.
3. Performance Criteria:
    a. Fungi Resistance: No Growth; ASTM C 1338.
    b. Ultra-violet (UV) Exposure: No Cracking, checking, crazing, erosion or other characteristics that might affect performance; ASTM G 154.

2.17 WEEP SYSTEMS FOR HOLLOW CORE MASONRY UNITS (CMU - JUMBO BRICK) AS BELOW GRADE FOUNDATION WALLS

A. Vent Mat (VM 9025):
1. Description: Forms the bottom side of the bed joint of mortar on the interior face shell to create tunnels/ channels that connect the core to the interior surface of the foundation wall and interior edge of the footing.
2. Material: High impact polystyrene sheets, 0.024 inch (0.61 mm) thick, formed with corrugations.
    a. Weep Legs: 2-1/4 inches (57 mm) wide at 4-1/2 inches (114.3 mm) on center.
    b. Continuous Belt Width: 2-1/2 inches (63.5 mm).
    c. Overall Width: 11-1/2 inches (292 mm).
    d. Length: 25 feet (7.6 m).
    e. Squared - Channel Depth: 3/16 inch (4.76 mm).
    f. Color: Black.
3. Performance Criteria:
    a. Fungi Resistance: No Growth; ASTM C 1338.
    b. Ultra-violet (UV) Exposure: No Peeling, chipping, cracking, flaking, pitting, crazing, erosion or other deleterious effects were observed under a 5X magnification; ASTM G 154.

2.18 WEEP SYSTEM FOR STEEL LINTEL

A. Head Joint Weeps (HJW 3845):
1. Description: Is a 3/8 inch x 3/8 inch spacer that is installed in each head joint of brick course laid dry on a flashing system that covers a steel lintel. It maintains a 3/8 inch high void in the bottom of the head joint of mortar from the exterior surface of the full brick veneer back into the vertical void created by the rainscreen drainage plane Sure Cavity (SC 5016/SC 5032), 10MM Sure Cavity (SCMM 2516/SCMM 2532) or Gravity Cavity (GC 1832).
2. Materials: Acetac, 0.24 inch (0.6 mm) thick.
    a. Width: 3/8 inch (9.5 mm).
    b. Height: 3/8 inch (9.5 mm).
    c. Length: 4 1/2 inches (114mm) to 9 inches (228 mm).
    d. Color: Light gray.

2.19 WEEP SYSTEM FOR CONCEALED STEEL LINTEL

A. Concealed Steel Lintel/Shelf Angle Weep System (CLW 9040):
1. Description: Forms the bottom side of the bed joint of mortar and the front nose of the bed joint of mortar to create tunnels/channels from behind the lip of a lip brick at the front of the steel lintel into the vertical void created by rainscreen drainage plane Sure Cavity (SC 5016/SC 5032) or 10MM Sure Cavity (SCMM 2516/SCMM 2532) or

Gravity Cavity (GC 1832).

2. Materials: High impact polystyrene sheets, 0.024 inch (0.61 mm) thick, formed with corrugations and bent into L-Shape, 5 inches (127 mm) or less on one leg by 9 inches (229 mm) or less on other leg.
   a. Length: 4 feet (1.2 m).
   b. Curved - Channel Depth: 1/8 inch (3.25 mm).
3. Performance Criteria:
   a. Fungi Resistance: No Growth; ASTM C 1338.
   b. Ultra-violet (UV) Exposure: No Peeling, chipping, cracking, flaking, pitting, crazing, erosion or other deleterious effects were observed under a 5X magnification; ASTM G 154.

2.20 WEEP SYSTEM FOR SHELF ANGLE

A. Head Joint Weeps (HJW 3845):
   1. Description: Is a 3/8 inch x 3/8 inch spacer that is installed in each head joint of brick course laid dry on a flashing system that covers a shelf angle. It maintains a 3/8 inch high void in the bottom of the head joint of mortar from the exterior surface of the full brick veneer back into the vertical void created by the rainscreen drainage plane, Sure Cavity (SC 5016/SC 5032) or 10MM Sure Cavity (SCMM 2516/SCMM 2532) or Gravity Cavity (GC 1832).
   2. Materials: Acetac, 0.24 inch (0.6mm) thick.
      a. Width: 3/8 inch (9.5 mm).
      b. Height: 3/8 inch (9.5 mm).
      c. Length: 4-1/2 inches (114 mm) to 9 inches (228 mm)
      d. Color: Light gray.

B. Vent Strip (VS 3845):
   1. Description: Forms a flexible joint and maintains ventilation opening at top of masonry veneer or underside of the expansion pad mounted on the underside of the shelf angle from outside surface of the brick veneer into the cavity of the full brick veneer or into the vertical drainage plane created by the rainscreen drainage plane Sure Cavity (SC 5016/SC 5032) or 10MM Sure Cavity (SCMM 2516/SCMM 2532) or Gravity Cavity (GC 1832).
   2. Materials: High impact polystyrene sheets, 0.024 inch (0.61mm) thick, formed with corrugations.
      a. Width: 4-5/8 inch (117 mm).
      b. Length: 50 feet (15.2 m)
      c. Curved - Channel Depth: 1/8 inch (3.25 mm).
   3. Performance Criteria:
      a. Fungi Resistance: No Growth; ASTM C 1338.
      b. Ultra-violet (UV) Exposure: No Peeling, chipping, cracking, flaking, pitting, crazing, erosion or other deleterious effects were observed under a 5X magnification; ASTM G 154.

2.21 WEEP SYSTEM FOR CONCEALED SHELF

A. Concealed Steel Lintel/Shelf Angle Weep System (CLW 9040):
   1. Description: Forms the bottom side of the bed joint of mortar and the front nose of the bed joint of mortar to create tunnel / channels from behind the lip of a lip brick at front of the steel lintel into the vertical void created by rainscreen drainage plane Sure Cavity (SC 5016/SC 5032) or 10MM Sure Cavity (SCMM 2516 /SCMM 2532) or Gravity Cavity (GC 1832).
   2. Materials: High impact polystyrene sheets, 0.024 inch (0.61 mm) thick, formed with corrugations and bent into L-Shape, 5 inches (127 mm) or less on one leg by 9 inches (229 mm) or less on other leg.
      a. Length: 4 feet (1.2 m).

b. Curved - Channel Depth: 1/8 inch (3.25 mm).

3. Performance Criteria:
   a. Fungi Resistance: No Growth; ASTM C 1338.
   b. Ultra-violet (UV) Exposure: No Peeling, chipping, cracking, flaking, pitting, crazing, erosion or other deleterious effects were observed under a 5X magnification; ASTM G 154.

B. Vent Strip (VS 3845):

1. Description: Forms flexible joint and maintains ventilation opening at top of masonry veneer or underside of the expansion pad mounted on the underside of the shelf angle from outside surface of the full brick veneer into the cavity of the full brick veneer or into the vertical drainage plane created by the rainscreen drainage plane, Sure Cavity (SC 501 /SC 5032) or 10MM Sure Cavity (SCMM 2516/SCMM 2532) or Gravity Cavity (GC 1832).
2. Materials: High impact polystyrene sheets, 0.024 inch (0.61 mm) thick, formed with corrugations.
   a. Width: 4-5/8 inch (117 mm).
   b. Length: 50 feet (15.2 m)
   c. Curved - Channel Depth: 1/8 inch (3.25 mm).
3. Performance Criteria:
   a. Fungi Resistance: No Growth; ASTM C 1338.
   b. Ultra-violet (UV) Exposure: No Peeling, chipping, cracking, flaking, pitting, crazing, erosion or other deleterious effects were observed under a 5X magnification; ASTM G 154.

2.22 MASONRY ACCESSORIES

A. L & R Weep Screed (LR 3501):

1. Description: A sheet metal device that creates a bottom of thin veneer wall termination detail that encapsulates and weeps the bottom edge of the WRB, the bottom edge of the rainscreen drainage plane Sure Cavity (SC 5016 / SC 5032) or Gravity Cavity (GC 1832). The bottom edge of the self-furring expanded metal lath and scratch coat, a metal detail that bridges the construction joint created by the bottom of the wall sheathing and the top outside edge of the foundation wall.
2. Material: 26 gauge galvanized steel, bent into "V" shaped channel, with a long vertical leg and a short leg at 70 degree angle out from other leg and slots punched into bottom edge.
   a. Length of Long Vertical Leg: 3-1/2 inches (38 mm).
   b. Anchor Holes in Vertical Leg: 3/16 inch (4.76 mm) diameter.
      1) Vertical Spacing: 1-5/16 inches (33.3 mm) apart.
      2) Horizontal Spacing: 2-3/4 inches (69.8 mm) apart.
   c. Length of Short Leg: 1-1/32 inch (26.19 mm).
   d. Length of Slots: 1 inch (25.4 mm).
   e. Space between Slots: 1-3/4 inches (44 mm).
   f. Length: 8 feet (2.4 m).

B. Weep Screed Deflector (WSD 1309):

1. Description: Formed metal termination material that provides mechanical termite barrier, used with weep screed to deflect drainage water away from foundation wall.
2. Material: 26 gauge galvanized steel, bent into "L" shaped channel, with long vertical leg and short leg at 120 degree angle out from other leg.
   a. Length of Long Vertical Leg: 3 1/2 inches (88.9 mm).
   b. Anchor Holes in Vertical Leg: 3/16 inch (4.76 mm) diameter.
      1) Vertical Spacing: 1-5/16 inches (33.3mm) apart.
      2) Horizontal Spacing: 2-3/4 inches (69.8mm) apart.
   c. Length of Short Leg: 51/64 inch (20.24 mm)

d. Length: 8 feet (2.4m).

C. MTI Edge Metal (MEM 3168):
1. Description: Formed metal termination to accommodate rainscreen drainage plane material.
2. Material: 26 gauge galvanized steel, bent into "J" shaped channel, with long vertical leg and short leg at 5 degree angle out from other leg.
a. Length of Long Vertical Leg: 3-21/32 inches (92.9 mm).
b. Anchor Holes in Vertical Leg: 3/16 inch (4.76 mm) diameter
1) Vertical Spacing: 1-5/16 inches (33.3 mm) apart.
2) Horizontal Spacing: 2-3/4 inches (69.8 mm) apart.
c. Length of Short Leg: 3/8 inch (9.5mm)
d. Width at Bottom: 11/32 inch (8.6mm).
e. Length: 8 feet (2.4m).

D. Vented MTI Edge Metal (VMEM 3168):
1. Description: Formed metal termination to accommodate rainscreen drainage plane material and weep.
2. Material: 26 gauge galvanized steel, bent into "J" shaped channel, with long vertical leg and short leg at 5 degree angle out from other leg and slots punched into bottom edge.
a. Length of Long Vertical Leg: 3-21/32 inches (92.9 mm).
b. Anchor Holes in Vertical Leg: 3/16 inch (4.76 mm) diameter
1) Vertical Spacing: 1-5/16 inches (33.3mm) apart.
2) Horizontal Spacing: 2-3/4 inches (69.8 mm) apart.
c. Length of Short Leg: 3/8 inch (9.5 mm)
d. Width at Bottom: 11/32 inch (8.6 mm).
e. Length of Slots: 1 inch (25.4 mm)
f. Space Between Slots: 1.75 inches (44.45 mm).
g. Length: 8 feet (2.4 m).

E. Moisture Diverter (DS 2858):
1. Description: Forms a diversion for moisture above wall openings such as windows and doors, directing the moisture to one side of opening and away from these moisture sensitive wall details.
2. Materials: 26 gauge galvanized steel, bent into "L" shaped channel, with long vertical leg and short leg at 65 degree angle out from other leg.
a. Length of Long Vertical Leg: 1-7/8 inches (47.6 mm).
b. Length of Short Leg: 5/8 inch (15.9 mm)
c. Length: 4 feet (1.2 m).

F. Mortar Belt (MB 3550):
1. Description: Forms a barrier within cores of CMU to suspend and trap mortar occurring within cells.
2. Materials: High impact polystyrene sheets, 0.024 inch (0.61mm) thick, formed with corrugations.
a. Width: 3-1/2 inch (89 mm).
b. Length: 50 feet (15.2 m).
c. Squared - Channel Depth: 3/16 inch (4.76 mm).
d. Color: Black.
3. Performance Criteria:
a. Fungi Resistance: No Growth; ASTM C 1338.
b. Ultra-violet (UV) Exposure: No Peeling, chipping, cracking, flaking, pitting, crazing, erosion or other deleterious effects were observed under a 5X magnification; ASTM G 154.

G. Trash Mortar Diverter (TMD 9548):

1. Description: Formed in a "V" Shape to hold and encapsulate trash mortar and prevent mortar bridging within 1-1/2 inch (38.1 mm) to 3 inches (76.2 mm) wide cavity air space.
2. Materials: High impact polystyrene sheets, 0.024 inch (0.61 mm) thick, formed with corrugations and bent into V-Shape, with 8-1/2 inches (216 mm) back leg and 5-1/2 inch (140 mm) front leg. Contains weep holes at 2-1/2 inches (63.5 mm) on center in bottom of "V" and at 1 inch (25.4 mm) on center up each leg.
    a. Length: 4 feet (1.2 m).
    b. Squared - Channel Depth: 3/16 inch (4.76 mm).
    c. Color: Black.
3. Performance Criteria:
    a. Fungi Resistance: No Growth; ASTM C 1338.
    b. Ultra-violet (UV) Exposure: No Peeling, chipping, cracking, flaking, pitting, crazing, erosion or other deleterious effects were observed under a 5X magnification; ASTM G 154.

H. Floor Edging (FE 8555):
1. Description: Forms horizontal and vertical ventilation channels at edge of concrete floors at foundation walls and prevents attachment, moisture and thermal transfer, and shrinkage cracking along this edge.
2. Materials: High impact polystyrene sheets, 0.024 inch (0.61 mm) thick, formed with corrugations and bent into L-Shape, with 9 inches (229 mm) on one leg by 5 inches (127 mm) on other leg.
    a. Length: 4 feet (1.2 m).
    b. Squared - Channel Depth: 3/16 inch (4.76 mm).
    c. Color: Black.
3. Performance Criteria:
    a. Fungi Resistance: No Growth; ASTM C 1338.
    b. Ultra-violet (UV) Exposure: No Peeling, chipping, cracking, flaking, pitting, crazing, erosion or other deleterious effects were observed under a 5X magnification; ASTM G 154.

I. H Cove (HC 3504):
1. Description: Forms displacement channel at edge of slab concrete for wet basement renovations creating passageway for water to flow to gas sealed sump basket.
2. Material: Extruded PVC, 0.06 inch (1.52 mm) thick and in an "h" shape to sit on top of footing with vertical leg against the foundation wall.
    a. Length of Vertical Leg: 3.03 inches (79.96 mm).
    b. Radius of Cove: 1-11/16 inches (43.13 mm).
    c. Width at Bottom: 3-3/8 inches (86.49 mm).
    d. Vertical Offset from Front to Rear: 1/2 inch (13.21 mm).
    e. Length: 4 feet (1.2 m).

J. Sump Basket (SF30PR):
1. Description: Formed tall basket with non-corrosive, nylon encapsulated inserts to protect stainless steel bolts and washers. Lid of basket is thick and strong with an easy grab handle and provides access panel for sump pump and electrical supply, gas tight with gaskets, and provides water discharge and gas vent port.
2. Materials: Structural foam.
    a. Diameter: 18 inches (457 mm).
    b. Height: 30 inches (762 mm).
    c. Capacity: 30 gallons (114 L).

PART 3 EXECUTION

3.1 EXAMINATION

A. Do not begin installation until substrates have been properly prepared.

B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

A. Clean surfaces thoroughly prior to installation.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 VERIFICATION OF CONDITIONS

A. Verify that field conditions are acceptable and are ready to receive this work.

B. Verify that related items provided under other sections are properly sized and located.

3.4 DRAINAGE PLANE INSTALLATION

A. Install systems in accordance with manufacturer's instructions and as follows.
   1. Rainscreen Drainage Planes for Full Brick Veneers:
      a. Install first course of rainscreen drainage plane with fabric side facing to weather with 4 inches (102 mm) fabric skirt overlapping continuous belt of Cavity Weep (CV 5010).
      b. Install successive courses so 4 inches (102 mm) long fabric skirt overlaps top edge of lower course of rainscreen drainage plane -- Sure Cavity (SC 5016 or SC 5032), 10MM Sure Cavity (SCMM 2516 or SCMM 2532), or Gravity Cavity (GC 1816 or GC 1832).
      c. Install weeps for full brick veneers, Cavity Weep (CV 5010), atop flashing with continuous belt centered in cavity and weep legs extending out from exposed face of full brick veneer a minimum of 1 inch to 1-1/2 inches (25 mm to 38 mm).
      d. As an Contractor Option to Cavity Weep (CV 5010) at the bottom of wall and as a weep system to accommodate the top of wall openings details, install Wall Opening Weeps (WOW 9095), 10-1/2 inches (267 mm) on center with appropriate leg 5 inches or 9 inches (127 mm or 229 mm) extending up the backup wall behind Sure Cavity (SC 5016 or SC 5032), 10MM Sure Cavity (SCMM 2516 or SCMM 2532), or Gravity Cavity (GC 1816 or GC 1832) and horizontal leg 5 inches or 9 inches (127 mm or 229 mm) extending out from face of brick veneer a minimum of 1 inch or 1-1/2 inches (25 mm or 38 mm).
      e. Tool joints and lightly score weep legs at face of brick veneer and crack off by pushing downward while mortar is still plastic.
      f. Finish tool joints and brush brick wall.
      g. Install the required accessories to accommodate wall opening and top of wall detail etc.
   2. Rainscreen Drainage Planes for Full Stone Veneers: 10MM Sure Cavity (SCMM 2516 or SCMM 2532)
      a. Install first course of rainscreen drainage plane over appropriate weather resistant barrier (WRB) and flashing system with fabric side facing to weather with 4 inches (102 mm) fabric skirt overlapping continuous belt of Stone Cavity Weep (SCV 5012).
      b. Install successive courses so 4 inches (102 mm) long fabric skirt overlaps top edge of lower course of rainscreen drainage plane -- Sure Cavity (SC 5016 or SC 5032), 10MM Sure Cavity (SCMM 2516 or SCMM 2532), or Gravity Cavity (GC 1816 or GC 1832).
      c. Install weeps for full veneers, Stone Cavity Weep (SCV 5012), atop flashing with continuous belt 1/2 inch (12 mm) from rear of cavity and weep legs

extending out from exterior face of full stone veneer.

d. As an Contractor Option to Stone Cavity Weep (SCV 5012) at the bottom of wall and as a weep system to accommodate the top of wall opening details, install Wall Opening Weeps (WOW 9095), 10-1/2 inches (267 mm) on center with appropriate leg 5 inches or 9 inches (127 mm or 229 mm) extending up the backup wall behind 10MM Sure Cavity (SCMM 2516 or SCMM 2532) and horizontal leg 5 inches or 9 inches (127 mm or 229 mm) extending out from the exterior face of full stone veneer a minimum of 1 inch to 1 1/2 inches (25mm to 38mm).
e. Install mortar bed joint atop weep assembly and lay stone veneer.
f. Tool joints and lightly score weep legs at face of stone veneer and crack off by pushing downward while mortar is still plastic.
g. Finish tool joints and brush stone wall.
h. Install the required accessories to accommodate wall opening and top of wall detail etc.

3. Rainscreen Drainage Plane for (Adhered) Thin Brick, Thin Manmade Stone, Thin Natural Stone, and for Three-Course Stucco Veneers.
   a. Weep Screed - L & R Weep Screed (LR 3501)
      1) Install L & R Weep Screed at bottom of (adhered) thin brick, thin stone, thin natural stone or three-course stucco veneer wall with a 3-1/2 inches (89 mm) back flange transitioning the construction joint created by the top outside corner of the foundation wall and the bottom edge of the wall sheathing.
      2) The 3-1/2 inches (89 mm) back flange should be fastened to the framed sheathing only with approximately 1-1/2 to 2 inches (38 to 50.8 mm) overlapping down over face of foundation.
   b. Rainscreen Drainage Plane: Sure Cavity (SC 5016 or SC 5032) or Gravity Cavity (GC 1816 or GC 1832).
      1) Install Cavity or Gravity Cavity over acceptable weather resistant barrier (WRB) and flashing system, with fabric side facing to weather.
      2) Back wrap 4 inches (102 mm) fabric skirt at bottom edge.
      3) Sure Cavity or Gravity Cavity and the WRB should overlap 3-1/2 inches (89 mm) back flange of L & R Weep Screed (LR 3501).
      4) The back wrapped bottom edge of Sure Cavity or Gravity Cavity should be fully embedded in bottom of L & R Weep Screed.
   c. Wall Opening Weeps (WOW 9095)
      1) Install Wall Opening Weeps (WOW 9095) with 9 inches (229 mm) vertical leg up on wall on weather resistant barrier (WRB) and flashing and 5 inches (127 mm) horizontal down on flashing and extending perpendicular out from face of wall 10-1/2 inches (267 mm) on center.
      2) Clean out mortar from top slot of horizontal leg between application of scratch coat and adhering and joint grouting mortar application. Cut off horizontal leg at wall line while grouting mortar is still plastic and finish tool joint.

4. Rainscreen Drainage Plane for Cladded Siding
   a. Install Sure Cavity (SC 5016) (SC 5032) or (SC 5016NF) (SC 5032NF) or Gravity Cavity (GC 1816) (GC 1832) or (GC 1816NF) (GC 1832NF) with fabric facing to the weather (if fabric specified) over the appropriate weather resistant barrier (WRB) or rigid insulation, etc.
   b. Install Sure Cavity or Gravity Cavity with 4 inches (102 mm) fabric skirt back wrapped as a bug screen on the bottom of first course (for both fabric and non-fabric systems).
   c. Install Vented MTI Edge Metal (VMEM 3168) with 3 inches (76 mm) back flange transitioning the construction joint created by the top outside corner of the foundation wall and the bottom edge of the wall sheathing.
   d. The 3 inches (76 mm) back flange shall be fastened to the framing sheathing

only with approximately 1 inch (25 mm) overlapping down over the face of the foundation.

e. Install back-wrapped bottom edge of the first course of Sure Cavity or Gravity Cavity into the bottom of "J" channel of the Vented MTI Edge Metal.
f. Install successive courses of Sure Cavity or Gravity Cavity with 4 inches (102 mm) fabric skirt overlapping the top edge of the previous course.
g. Install the required siding starter strip over the bottom edge of Sure Cavity or Gravity Cavity installed in the Vented MTI Edge Metal.
h. Install cladded siding.

5. Drainage Plane for the Interior Surface of an Above Grade Single-Wythe (CMU or Jumbo Brick) Wall:
   a. Install Perforated Control Cavity (PCC 4816 and PCC 4832) or 10MM Perforated Control Cavity (PCC 2416 - PCC 2432) with the fabric facing to the interior of the living area.
   b. Install Perforated Control Cavity with the 4 inches (102 mm) fabric skirt tucked behind the top edge of the fabric of the course below it.
   c. Fasten Perforated Control Cavity 1 feet (305 mm) on center.
   d. Install first course of Perforated Control Cavity with the 4 inches (102 mm) fabric skirt back wrapped.
   e. Install of Perforated Control Cavity with the bottom edge approximately 4 inches to 6 inches (102 mm to 152 mm) below bottom elevation or concrete floor.
   f. Install the first course of Perforated Control Cavity with the bottom edge into the drain field of the perimeter sub slab drain field drain tile system.
   g. All wall openings shall be furred out to meet approximate interior finish plane.
   h. Install Perforated Control Cavity with the edges abutting furred outsides and bottoms of all openings.
   i. Install Moisture Diverter (DS 2858) with a 1/4 inch (6.24 mm) slope to drain per foot to the interior surface of single wythe wall, approximately 4 inches to 6 inches (102 mm to 152 mm) above furred out wall openings, with the ends of the moisture diverter extending 4 inches to 6 inches (102 mm to 152 mm) passed the outside edge of wall opening side furring.
   j. Install approximately 4 inches to 6 inches (102 mm to 152 mm) wide flashing tape over top edge of the Moisture Diverter (DS 2858).
   k. Install corrugated plastic bottom edge of Perforated Control Cavity into Moisture Diverter (DS 2858) with 4 inches (102 mm) fabric skirt overlapping Moisture Diverter.
6. Drainage Planes for Interior of Below Grade (Basement) Walls and Concrete Floor Overlay Concrete Cap Slabs:
   a. Install Control Cavity (CC 4800) or 10MM Control Cavity (CC 4810) to the interior of basement walls.
   b. Fasten Control Cavity 1 foot (305 mm) on center.
   c. Overlap bottom edge of first course 1 inch to 2 inches (25 mm to 51 mm); start coursing at top of wall.
   d. Overlap ends 1 inch to 2 inches (25 mm to 51 mm).
   e. Position bottom edge of bottom course of Control Cavity behind vertical leg of Floor Edging (FE 8555) on top surface of footing with the outside horizontal leg extending past the interior edge of footings.
7. Horizontal Drainage Planes for Interior Below Grade Basement Floor Retrofit Cap Slab Slip Sheet/Drainage Plane:
   a. Install Control Cavity (CC 4800) or 10MM Control Cavity (CC 4810) to prepared basement floor.
   b. Fasten Control Cavity as required to control movement when installing cap slab.
   c. Overlap edges and ends 2 inches to 3 inches (51 mm to 76 mm).
   d. Overlap floor edging (FE 8555) at perimeters 4 inches to 5 inches (102 mm to

127 mm).
e. Install cap slab.

8. Horizontal Drainage Planes and Slip Sheets Low Slope Stone Overlays on Verandas:
   a. Install Sure Cavity (SC 5016 - SC 5032) to low slope horizontal waterproofing system on deck of veranda.
   b. Lay loose, do not fasten.
   c. Overlap shingle-fashion with slope.
   d. Install stone bedding mortar and stone.
9. Window Sub-Sill Drainage Plane (Rainscreen Drainage Plane for Window Rough Opening Sill. View examples at http://www.mtidry.com/hyperspecs/ and Wall Openings.
   a. Install Window Drainage Plane (WDP 5000) on the horizontal and vertical surfaces of the waterproofing system (sill pan) at bottom of window rough opening.
   b. Minimize fastening vertical leg only.
   c. Fabricate horizontal leg of window drainage plane to fit dimensions of horizontal plane of rough opening.
   d. Install window.

3.5 WEEP SYSTEM INSTALLATION

A. Install systems in accordance with manufacturer's instructions and as follows:
   1. Weep System for Full Brick Veneers:
      a. Rainscreen Drainage Plane: Sure Cavity (SC 5016 or SC 5032), 10MM Sure Cavity (SCMM 2516 or SCMM 2532) or Gravity Cavity (GC 1832)
         1) Install rainscreen drainage plane with fabric side facing to weather with 4 inches (102 mm) fabric skirt overlapping continuous belt of Cavity Weep (CV 5010).
         2) Install 4 inches (102 mm) fabric skirt to overlap top edge of lower course of rainscreen drainage plane, Sure Cavity (SC 5016 or SC 5032), 10MM Sure Cavity (SCMM 2516 or SCMM 2532) or Gravity Cavity (GC 1832).
      b. Install weeps for full brick veneers, Cavity Weep (CV5010) atop flashing with continuous belt centered in cavity and weep legs extending out from exposed face of full brick veneer a minimum of 1 inch to 1-1/2 inches (25 mm to 38 mm).
      c. As an Contractor Option to Cavity Weep (CV 5010), at the bottom of wall and as a weep system to accommodate the top of wall openings details, install Wall Opening Weeps (WOW 9095) 10-1/2 inches (267 mm) on center with appropriate leg 5 inches or 9 inches (127 mm or 229 mm) extending up the backup wall behind Sure Cavity (SC 5016 or SC 5032), 10MM Sure Cavity (SCMM 2516 or SCMM 2532), or Gravity Cavity (GC 1832) and horizontal leg 5 inches or 9 inches (127 mm or 229 mm) extending out from face of full brick veneer a minimum of 1 inch to 1-1/2 inches (25 mm to 38 mm).
      d. Install mortar bed joint atop weep assembly and lay brick veneer.
      e. Tool joints and lightly score weep legs at face of full brick veneer and crack off by pushing downward while mortar is still plastic.
      f. Finish-tool joints and brush brick wall.
      g. Install required accessories to accommodate wall opening and top of wall detail, etc.
   2. Weep Systems for Full Stone Veneers:
      a. Rainscreen Drainage Plane: 10MM Sure Cavity (SCMM 2516 or SCMM 2532).
         1) Install rainscreen drainage plane over appropriate weather resistant barrier (WRB) and flashing system with fabric side facing to weather with 4 inches (102 mm) fabric skirt overlapping continuous belt of Stone Cavity Weep (SCV 5012).
         2) Install 4 inches (102 mm) fabric skirt to overlap top edge of lower course of rainscreen drainage plane 10MM Sure Cavity (SCMM 2516 or SCMM

2532).

b. Install weeps for full stone veneers, Stone Cavity Weep (SCV 5012), atop flashing with continuous belt 1/2 inch (12 mm) from rear of cavity and weep legs extending out from exterior face of full stone veneer.

c. As an Contractor Option to Stone Cavity Weep (SCV 5012) at the bottom of wall and as a weep system to accommodate the top of wall opening details, install Wall Opening Weeps (WOW 9095), 10-1/2 inches (267 mm) on center with appropriate leg 5 inches or 9 inches (127 mm or 229 mm) extending up the backup wall behind 10MM Sure Cavity (SCMM 2516 or SCMM 2532) and horizontal leg 5 inches or 9 inches (127 mm or 229 mm) extending out from the exterior face of full stone veneer a minimum of 1 inch to 1-1/2 inches (25 mm to 38 mm).

d. Install mortar bed joint atop weep assembly and lay full stone veneer.

e. Tool joints and lightly score weep legs along face of full stone veneer and crack off by pushing downward while mortar is still plastic.

f. Finish-tool joints and brush stone wall.

g. Install required accessories to accommodate wall opening and top of wall details.

3. Weep Systems for Adhered Thin Brick, Thin Manmade Stone, Thin Natural Stone and Three Course Stucco Veneers.

a. Weep Screed - L & R Weep Screed (LR 3501)

1) Install L & R Weep Screed at bottom of adhered thin brick veneer wall, with 3-1/2 inches (88.9 mm) back flange transitioning the construction joint created by the top outside corner of the foundation wall and the bottom edge of the wall sheathing.

2) The 3-1/2 inches (88.9 mm) back flange shall be fastened to the framed sheathing only, with approximately 1-1/2 to 2 inches (38 to 50.8 mm) overlapping down over face of foundation.

b. Rainscreen Drainage Plane: Sure Cavity (SC 5016 or SC 5032) or Gravity Cavity (GC 1832)

1) Install Sure Cavity or Gravity Cavity over appropriate weather resistant barrier (WRB) and flashing system with fabric side facing to weather.

2) Back wrap 4 inches (102 mm) fabric skirt at bottom edge.

3) Sure Cavity or Gravity Cavity and the WRB shall overlap 3-1/2 inches (88.9) back flange of L & R Weep Screed (LR 3501).

4) The back wrapped bottom edge of Sure Cavity or Gravity Cavity should be fully embedded in bottom of L & R Weep Screed.

c. Wall Opening Weeps (WOW 9095):

1) Install Wall Opening Weeps (WOW 9095) with 9 inches (229 mm) vertical leg up on wall on weather resistant barrier (WRB) and flashing and 5 inches (127 mm) horizontal leg down on flashing and extending perpendicular out from face of wall, 10-1/2 (267 mm) inches on center.

2) Clean out excess mortar from top slot of horizontal leg between application of scratch coat and adhering and joint grouting mortar application. Cut off horizontal leg at wall line while grouting mortar is still plastic and finish tooling mortar joint.

4. Weep Systems for Hollow Core Masonry Units (CMU - Jumbo Brick) as a Single Wythe Wall:

a. Cavity Weep (CV 5010) installed in conjunction with a through wall Z flashing system. Installed on the first course above a bond beam.

1) Install Cavity Weep (CV 5010) on the lower horizontal surface of the Z flashing.

2) Position Cavity Weep (CV 5010) with the back of the 1 inch (25 mm) continuous belt 1/2 inch (12 mm) from the vertical surface of the Z flashing and the 6 inches (152 mm) legs extending out from the exterior face of the wall.

3) Cut down to the appropriate height Sure Cavity (SC 5016) or 10MM Sure Cavity (SCMM 2516) and install to the vertical surface of Z flashing trim 4 inches (102 mm) fabric skirt to overlay Cavity Weeps 1 inch (25 mm) continuous belt.
4) Install mortar bed joint atop weep system and lay CMU.
5) Tool joints and lightly score weep legs along face of CMU wall and crack off by pushing downward while mortar s still plastic.
6) Finish-tool joints and brush wall
7) Install required accessories to accommodate wall opening and top of wall details.

b. Cavity Weep (CV 5010) install on the top of a CMU bond beam with the top surface of the grouted bond beam struck off with a 1/4 inch (6 mm) slope to drain to the exterior of the wall.
1) Install Cavity Weep (CV 5010) on the top surface of the sloped to drain water proofed bond beam.
2) Center 1 inch (25 mm) continuous belt of Cavity Weep on CMU wall with 6 inches (152 mm) legs extended out past the exterior surface of the wall.
3) Install mortar bed joint atop weep system and lay CMU.
4) Tool joint and lightly score weep leg along face of CMU wall and crack off by pushing downward while mortar is still plastic.
5) Finish-tool joints and brush wall.
6) Install required accessories to accommodate wall opening and top of wall details.

5. Weep System for Hollow Core Masonry Units (CMU - Jumbo Brick) as a Veneer.
a. Rainscreen Drainage Plane: Sure Cavity (SC 5016 or SC 5032), 10MM Sure Cavity (SCMM 2516 or SCMM 2532) or Gravity Cavity (GC 1832).
1) Install Sure Cavity or Gravity Cavity with fabric side facing the weather with 4 inches (102 mm) fabric skirt over lapping the ends of the legs of the Core Cavity Weep (CCV 5020) that extend into the cavity.

b. Core Cavity Weep (CCV 5020):
1) Install Core Cavity (CCV 5020 on a water stop / flashing at the bottom of an open core of a CMU wall designed and constructed as a veneer.
2) Position Core Cavity Weep (CCV 5020) with the 1-1/2 inches (38 mm) center belt centered on the open core of the CMU used as a veneer. Core / Cell of veneer CMU shall be a minimum of 3 inches (76 mm) inside diameter with one of the opposing weep legs extending into the cavity and other opposing leg extending out past the exterior face of the veneer wall.
3) Install mortar bed joints atop weep system and lay CMU.
4) Tool joints and lightly score weep legs along exterior face of CMU veneer wall and crack off by pushing downward while mortar is still plastic.
5) Finish-tool joints and brush CMU veneer wall.
6) Install required accessories to accommodate wall opening and top of wall details.

6. Weep Systems for Hollow Core Masonry Units (CMU - Jumbo Brick) as a Below-Grade Foundation Wall:
a. Vent Mat (VM 9025):
1) Install Vent Mat (VM 9025) on footing with the 1-1/2 inches (38 mm) continuous belt centered on wall with the weep legs extending past the interior face of the CMU wall and over the interior edge of the footing.
2) Install mortar bed joint atop weep system and lay CMU.
3) Finish-tool joints and clean excess mortar off footing.
4) Install required accessories to accommodate wall opening and top of wall details.

7. Weep System for Steel Lintels (When masonry units are laid dry/no bed joint of mortar

on flashing):

a. Rainscreen Drainage Plane: Sure Cavity (SC 5016 or SC 5032), 10MM Sure Cavity (SCMM 2516 or SCMM 2532) or Gravity Cavity (GC 1832).
    1) Install Sure Cavity or Gravity Cavity on vertical surface of flashing, WRB and vertical leg of steel lintel with 4 inches 9102 mm) fabric skirt overlapping the back ends of the Head Joint Weeps (HJW 3845).
    2) Trim 4 inches (102 mm) fabric skirt to appropriate length.
b. Head Joint Weeps (HJW 3845):
    1) Install Head Joint Weeps as spacers at each head joint, beginning with the first head joint on steel lintel.
    2) Position Head Joint Weeps with the front end flush with the exterior face of full brick veneer and the back end extending into cavity or vertical void created by Sure Cavity or Gravity Cavity.
    3) Strengthen up first course of masonry units.
    4) Spread bed joint of mortar on top of first course of masonry units.
    5) Tuckpoint bed joint of mortar into head joints.
    6) Tool finish mortar joints.
    7) Install required accessories to accommodate wall opening and top of wall details.

8. Weep System for Concealed Steel Lintels:
    a. Rainscreen Drainage Plane: Sure Cavity (SC 5016/SC 5032), 10MM Sure Cavity (SCMM 2516/ SCMM 2532) or Gravity Cavity (GC 1832).
        1) Install Sure Cavity or Gravity Cavity on vertical surface of flashing, WRB, and vertical leg of steel lintel with 4 inches (102 mm) fabric skirt overlapping the back edge of Concealed Steel Lintel / Shelf Angle Weep (CLW 9040).
        2) Trim 4 inches (102 mm) fabric skirt to appropriate length.
    b. Concealed Steel Lintel/Shelf Angle Weep (CLW 9040):
        1) Install Concealed Steel Lintel/Shelf Angle Weeps on horizontal leg of steel lintel over drip plate and flashing system.
        2) Cut (CLW 9040) to required size.
        3) Position (CLW 9040) with the front nose edge over the front edge of the lintel flashing and the back edge into the vertical void created by the Sure Cavity (SC 5016/SC 5032), 10MM Sure Cavity (SCMM 2516/SCMM 2532), or Gravity Cavity (GC 1832).
        4) Spread bed joint of mortar and lay masonry unit (lip brick).
        5) Finish tool joint
        6) Clean out and finish-tool mortar joint up under lip of lip brick.
        7) Install required accessories to accommodate wall opening and top of wall details.

9. Weep System for Shelf Angle (when masonry units are laid dry/no bed joint of mortar on flashing):
    a. Rainscreen Drainage Plane: Sure Cavity (SC 5016/SC 5032), 10MM Sure Cavity (SCMM 2516/ SCMM 2532) or Gravity Cavity (GC 1832).
        1) Install Sure Cavity or Gravity Cavity on vertical surface of flashing, WRB and vertical leg of shelf angle with 4 inch fabric skirt overlapping the back ends of the Head Joint Weeps (HJW 3845).
        2) Trim 4 inches (102 mm) fabric skirt to appropriate length.
    b. Head Joint Weeps (HJW 3845):
        1) Install Head Joint Weeps as spacers at each head joint, beginning with the first head joint on shelf angle.
        2) Position Head Joint Weeps with the front end flush with the exterior face of full brick veneer and the back end extending into cavity or vertical void created by Sure Cavity or Gravity Cavity.
        3) Strengthen up first course of masonry units.
        4) Spread bed joint of mortar on top of first course of masonry units.

5) Tuckpoint bed joint of mortar into head joints.
6) Tool finish mortar joints.
7) Install required accessories to accommodate wall opening and top of wall details.

c. Vent Strip (VS 3845):
1) Fasten Vent Strip (VS 3845) to bottom of expansion pad that is adhered to bottom side of shelf angle.
2) Position Vent Strip with front edge extending past front edge of expansion pad and back edge extended into vertical void created by Sure Cavity (SC 5016 or SC 5032), 10MM Sure Cavity (SCMM 2516 or SCMM 2532), or Gravity Cavity (GC 1832
3) Lay up top course of brick and tuckpoint mortar on top joint.
4) Finish tool joint
5) Cut off excess vent strip even with face of full brick veneer
6) Install required accessories to accommodate wall opening and top of wall details.

10. Weep System for Concealed Shelf Angle:
a. Rainscreen Drainage Plane: Sure Cavity (SC 5016 or SC 5032), 10MM Sure Cavity (SCMM 2516 or SCMM 2532), or Gravity Cavity (GC 1832)
1) Install Sure Cavity or Gravity Cavity on vertical surface of flashing, WRB, and vertical leg of shelf angle lintel with 4 inches (102 mm) fabric skirt overlapping the back edge of concealed steel lintel / shelf angle weep (CLW 9040).
2) Trim 4 inches (102 mm) fabric skirt to appropriate length.

b. Concealed Steel Lintel / Shelf Angle Weep (CLW 9040).
1) Install Concealed Steel Lintel / Shelf Angle Weeps on horizontal leg of shelf angle over drip plate and flashing system.
2) Cut (CLW 9040) to required size.
3) Position (CLW 9040) with the front nose edge over the front edge of the shelf angle flashing and the back edge into the vertical void created by the Sure Cavity (SC 5016 or SC 5032), 10MM Sure Cavity (SCMM 2516 or SCMM 2532), or Gravity Cavity (GC 1832)
4) Spread bed joint of mortar and lay masonry unit (lip brick).
5) Finish tool joint.
6) Clean out and finish-tool mortar joint up under lip of lip brick.
7) Install required accessories to accommodate wall opening and top of wall details.

c. Vent Strip (VS 3845):
1) Fasten Vent Strip (VS 3845) to bottom of expansion pad that is adhered to bottom side of shelf angle.
2) Position Vent Strip with front edge extending past front edge of expansion pad and back edge extended into vertical void created by Sure Cavity (SC 5016 or SC 5032), 10MM Sure Cavity (SCMM 2516 or SCMM 2532), or Gravity Cavity (GC 1832)
3) Lay up top course of brick and tuckpoint mortar on top joint.
4) Finish tool joint.
5) Cut off excess vent strip even with face of brick veneer.
6) Install required accessories to accommodate wall opening and top of wall details.

3.6 MASONRY ACCESSORY INSTALLATION

A. Install systems in accordance with manufacturer's instructions and as follows.
1. Weep Systems for Thin Veneers (Thin Brick - Thin Stone - Stucco):
a. Weep Screed - L & R Weep Screed (LR 3501).
1) Install L & R Weep at bottom of thin veneer wall with 3-1/2 inches (88.9

mm) back flange transitioning the construction joint created by the top outside corner of the foundation wall and the bottom edge of the wall sheathing.
2) The 3-1/2 inches (88.9 mm) back flange should be fastened to the framed sheathing only with approximately 1-1/2 to 2 inches (38 to 50.8 mm) overlapping down over face of foundation.

b. Weep Screed Deflector (WSD 1309).
1) Install Weep Screed Deflector at bottom of thin veneer wall with back flange transitioning the construction joint created by the top outside corner of the foundation wall and the bottom edge of the wall sheathing.
2) The 3-1/2 inches (88.9 mm) back flange is installed behind the 3-1/2 inches (88.9 mm) back flange of the L & R Weep Screed (LR 3501).
3) The Weep Screed Deflector is fastened (nailed) to the framing wall only.
4) The Weep Screed Deflector should overlap the foundation wall approximately 1-1/2 inches to 2 inches (38 to 50.8 mm).

2. Edge Metal (MEM 3168) for enclosing the edge of Sure Cavity (SC 5016 or SC 5032) or Control Cavity (CC 4800) on the rake edge of sloped roof and the vertical edge of wall panel:
a. Edge Metal (MEM 3168) used on the rake edge of roof.
1) Install Edge Metal on top of the rake roof edge drip cap or roof edge.
2) Apply flashing tape to the interior edge of Edge Metal and the interior edge of the rake roof Edge Metal and onto the roof deck.
3) Install roofing paper over the interior edge of rake roof Edge Metal.
4) Install edge of Sure Cavity (SC 5016 or SC 5032) or Control Cavity (CC 4800) over nailing flange and into Edge Metal.
5) Install roofing shingles.

b. Edge Metal (MEM 3168) for enclosing Sure Cavity (SC 5016 or SC 5032) or Control Cavity (CC 4800) at the edge of a wall panel.
1) Install Edge Metal on the vertical edge of a wall panel over end cap edge metal.
2) Apply flashing tape to the interior edge of Edge Metal and onto wall sheathing.
3) Install WRB over the interior edge of Edge Metal.
4) Install edge of Sure Cavity or Control Cavity.
5) Install siding.

3. Vented Edge Metal (VMEM 3168) for enclosing and weeping the bottom edge of Control Cavity (CC 4800) at the edge of roof overhang or Sure Cavity (SC 5016 or SC 5032) at the bottom of wall panels:
a. Vented Edge Metal (VMEM 3168) use on bottom edge of roof.
1) Install Vented Edge Metal on top of the drip cap or roof edge metal on the bottom edge of roof.
2) Position bottom edge of water stop/ice shield over nailing flange of Vented Edge Metal.
3) Install roofing papers over water stop/ice shield and nailing flange of Vented Edge Metal.
4) Install bottom edge of first course of Sure Cavity or Control Cavity into Vented Edge Metal.
5) Install shingles.

b. Vented Edge Metal (VMEM 3168) use at bottom of wall.
1) Install Vented Edge Metal at bottom of wall to transition construction joint created by bottom edge of sheathing and top outside edge of foundation wall.
2) Apply flashing tape to the top edge of Vented Edge Metal and onto sheathing.
3) Install WRB over 3-1/2 inches (88.9 mm) back flange of Vented Edge Metal.

4) Back-wrap 4 inches (102 mm) fabric skirt of Sure Cavity for bug screen.
5) Install edge of Sure Cavity or Control Cavity over nailing flange and into Vented Edge Metal.
6) Install siding.

4. Moisture Diverter (DS 2858) for thin veneers:
   a. Install Moisture Diverter directly above wall openings such as windows and doors and not in contact with mounting flanges or flashing systems.
   b. Install Moisture Diverter providing a watertight seal against weather resistant barrier on masonry and concrete substrates and flash the top on sheathing substrates.
   c. Install Moisture Diverter with 1/4 inch per foot (6.35 mm per 305 mm) slope-to-drain and extend sides at least 4 inches (102mm) beyond door and window mounting flange and trim boards on both sides.
   d. Install required accessories such as rainscreen drainage plane and flashing for complete installation.
5. Mortar Belt (MB 3500) for trash mortar control in CMU Walls
   a. Install Mortar Belt centered on CMU wall every 4 to 6 courses.
   b. Do not use when CMU cells are less than 5 inches (17mm) wide.
   c. Install necessary accessories for complete installation.
6. Trash Mortar Diverter (TMD 9548) for trash mortar control in cavity walls with air spaces (cavities) of 1-1/2 inches (38 mm) to 3 inches (76 mm):
   a. Install Trash Mortar Diverter into wall cavity with "V" in downward position and with short leg edge to the weather side.
   b. Install Trash Mortar Diverter in a (checkerboard) or (stair step) or (architect approved) pattern within the wall cavity.
   c. Install necessary accessories such as wall ties and flashing for complete installation.
7. Floor Edging (FE 8555) for interior of below grade (basement) moisture management:
   a. Install along the perimeter of concrete floor against the concrete masonry foundation wall on footing with short leg vertical and long leg horizontal.
   b. Fasten Floor Edging to wall at 2 feet (0.61 m) on center.
   c. Install top of Floor Edging vertical leg at least 1 inch (25.4 mm) higher than concrete slab.
   d. Install top edge of Floor Edging at least 3 inches (76.2 mm) higher than bottom of weep cores.
   e. Install necessary accessories such as Control Cavity (CC 4800) and Vapor retarder, Mortar Belt (MB 3550) and Vent Mat (VM 9025) for complete installation.
8. H-Cove (HC 3504) for interior below grade (basement) moisture management restoration:
   a. Remove concrete floor slab along perimeter and as indicated for renovation work.
   b. Clean debris from area, footing and wall.
   c. Provide small weep penetrations into cores of CMU wall at lowest level possible in every core.
   d. Install H-Cove with the vertical leg flat against the (drainage plane) Control Cavity (CC 4800) on the foundation wall with front lip atop the footing.
   e. Anchor the vertical leg through the drainage plane and into the foundation wall substrate.
   f. Pre-drill the holes using a masonry bit and fasten lightly to not crush the drainage plane.
   g. Field fabricate 45 degree corners and other connections as necessary to sump basket drain.
   h. Install adhesive tape over each connection.
   i. Upon completion of floor edge drain installation re-pour concrete patch as required.

j. Install necessary accessories such as drainage plane Control Cavity (CC 4800) and sump basket for complete installation. Refer to other sections for additional information.

9. Sump Basket (SF 30PR) for interior below grade (basement), to be used in conjunction with drain field drain tile system:
   a. Install Sump Basket plumb and level in location as indicated on drawings.
   b. Do not use when CMU cells are less than 5 inches (127 mm) wide.
   c. Install necessary accessories for complete installation. Refer to other sections for additional information.

3.7 PROTECTION

A. Protect installed thin veneer system from damage during construction.

B. Without damaging completed work, provide protective boards at exposed external corners that are subject to damage by construction activities.

END OF SECTION