

DOCUMENT 000107 - SEALS PAGE  
PROJECT:

Name: Bridgestone Retail Operations, LLC (BSRO)  
Location: 3561 SW Market St., Jackson County, Lee's Summit, MO 64082  
BSRO Project Number: 906983  
SGA Project Number: 1955B71

ARCHITECT OF RECORD

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07/23/2020  
Architect of Record \_\_\_\_\_ Date \_\_\_\_\_



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## SECTION 077100 – ROOF SPECIALTIES

## 1.1 SUMMARY

- A. Section Includes:
  - 1. Downspouts, with expansion joints.
  - 2. Downspout collectors.
  - 3. Scuppers.
  - 4. Conductor heads.
- B. Related Requirements as required per Project Manual:
  - 1. Section 061000 - Rough Carpentry: Wood blocking and nailers.
  - 2. Section 075423 –Thermoplastic-Polyolefin Roofing: Roof substrate.
  - 3. Section 076000 – Flashing and Sheet Metal.
  - 4. Section 079200 - Joint Sealants.
  - 5. Section 099000 - Painting and Coating: Field painting of metal surfaces.

## 1.2 REFERENCES

- A. The publications listed below form a part of this specification to the extent referenced. Publications are referenced within the text by the basic designation only.
- B. American Architectural Manufacturer's Association (AAMA):
  - 1. AAMA 621 - High Performance Organic Coatings on Coil Coated Architectural Hot Dipped Galvanized (HDG) & Zinc-Aluminum Coated Steel Substrates
- C. American National Standards Institute / Single Ply Roofing Industry (ANSI/SPRI):
  - 1. ANSI/SPRI/FM 4435 ES-1 – Wind Design Standard for Edge Systems Used with Low Slope Roofing Systems.
- D. ASTM International (ASTM):
  - 1. ASTM A 153 – Zinc Coating (Hot-Dip) on iron and Steel Hardware.
  - 2. ASTM A 653 - Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
  - 3. ASTM A 792 - Steel Sheet, 55 % Aluminum-Zinc Alloy-Coated by the Hot-Dip Process.
  - 4. ASTM C920 – Elastomeric Joint Sealants.
  - 5. ASTM F2329 – Zinc Coating, Hot-Dip, Requirements for Application to Carbon and Alloy Steel Bolts, Screws, Washers, Nuts, and Special Threaded Fasteners.
- E. Sheet Metal and Air Conditioning Contractors National Association (SMACNA):
  - 1. Architectural Sheet Metal Manual.
- F. Steel Structures Painting Council (SSPC):
  - 1. SSPC - Paint 12 - Cold-Applied Asphalt Mastic (Extra Thick Film).

## 1.3 PERFORMANCE REQUIREMENTS

- A. SPRI Wind Design Standard: Manufacture and install copings tested according to SPRI ES-1 and capable of resisting the following design pressures:
  - 1. Design Pressure: As indicated on Drawings.

## 1.4 QUALITY ASSURANCE

- A. Nominal sizing of components for rainfall intensity determined by a storm occurrence of 1 in 5 years shall be as indicated on Drawings.

## ROOF SPECIALTIES

## 1.5 DELIVERY, STORAGE AND HANDLING

- A. Stack preformed materials to prevent twisting, bending, or abrasion, and to aid ventilation. Slope to drain.
- B. Prevent contact with materials during storage which may cause discoloration, staining, or damage.
- C. Transport, handle, store, and protect products in compliance with the requirements of Section 016000 and Manufacturer's recommendations.
- D. Deliver materials in Manufacturer's original unopened containers, dry and undamaged with seals and labels intact.
- E. Store cements, primers, and caulks in heated area above 40 degrees F during cold weather and in area below 80 degrees F in warm weather.
- F. Do not store materials on completed roofing.

## PART 2 - PRODUCTS

### 1.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements and to the extent specified hereinafter, provide products by the following Manufacturers:
  - 1. Firestone Building Products Company, Indianapolis, IN (800) 428-4442.
- B. Substitutions: Reference Section 016000.

### 2.2 MATERIALS

- A. Galvanized Steel Sheet: ASTM A 653 Structural Quality, Grade 33, G90 zinc coating, mill phosphatized for painting where exposed to view from ground level. Sheet metal components shall be galvanized steel sheet unless otherwise specified.
- B. Option: In lieu of galvanized steel sheet specified above, the following may be provided for through-wall scuppers at the option of the Contractor.
  - 1. Thermoplastic (TPO) Coated Sheet Metal; ASTM A 653, Type B Commercial Steel, 24 gage, G90 zinc coating, with a layer of .035 inch min non-reinforced membrane flashing. Color shall match TPO roof color. Product shall be UltraPly TPO Coated Metal, by Firestone.

### 2.3 SCUPPER AND DOWNSPOUT COMPONENTS

- A. Downspouts: 22 gauge, SMACNA rectangular unless otherwise indicated. Fabricate downspouts complete with mitered elbows. Downspouts shall be fully enclosed profile, SMACNA Figure 1-32B:
- B. Conductor Head: SMACNA Figure 1-25F.
- C. Through-Wall Scuppers: SMACNA Figure 1-26.
- D. Overflow Scuppers: SMACNA Figure 1-30.

### 2.4 ROOF EDGE COPING

- A. Coping System: 24 gage steel, with Kynar finish. Metal coping cap with galvanized steel anchor/support cleats for capping any parapet wall. The system shall be watertight, maintenance free, and does not

## ROOF SPECIALTIES



require exposed fasteners. Joints shall be a butt type with concealed splice plates. Standard model is (PTCF) for all sizes. Subject to compliance with requirements, provide one of the following products:

1. Coping – Tapered Version, by Firestone Building Products.
2. Substitutions not allowed.

- B. Finish: Smooth finish with factory finished baked-on fluoropolymer 2-coat coating system.
- a. Manufacturer's standard 2-Coat Fluoropolymer conforming to AAMA 621. Fluoropolymer finish containing not less than 70 percent Kynar 500 PVDF resin by weight in color coat with a minimum of 0.9 mil dry film thickness. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
  - b. Unexposed side finish shall consist of not less than a 0.5 mil dry film thickness backer coat.
  - c. Color: To match adjacent building wall, with closest standard manufacturer color.
- C. Miters: Fabricated by the manufacturer.

## 2.5 ACCESSORIES

- A. General: Provide materials and types of fasteners, protective coatings, sealants, and other miscellaneous items included in metal edge kit or required by Manufacturer for a complete installation.
- B. Fasteners: Manufacturer's recommended fasteners, suitable for application and designed to meet performance requirements. Furnish the following unless otherwise indicated:
1. Exposed Penetrating Fasteners: Gasketed screws with hex washer heads matching color of sheet metal.
  2. Fasteners for Zinc-Coated (Galvanized) Steel Sheet: Series 300 stainless steel or hot-dip zinc-coated steel according to ASTM A 153 or ASTM F 2329.
- C. Elastomeric Sealant: ASTM C 920, elastomeric polymer sealant of type, grade, class, and use classifications required by roofing-specialty Manufacturer for each application.
- D. Downspout Straps: Match downspout material, minimum 20 gauge, SMACNA Figure 1-35G.
- E. Bituminous Coating: SSPC - Paint 12, solvent-type bituminous mastic, nominally free of sulfur, compounded for 15 mil dry film thickness per coat.
- F. Sealant: Specified in Section 079200.
- G. Splash Blocks: Precast concrete units, minimum 3000 psi at 28 days, with 5 percent air entrainment, size and profile to suit application.
- H. Downspout Collectors: Pipe material, sizes, connections, dimensions and profiles to suit downspouts and underground storm drainage system as indicated on drawings.

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- I. Underlayment: Asphalt Saturated Felt: ASTM D 226; Type II (No. 30) asphalt saturated organic roofing felt, nonperforated.

## 2.6 FABRICATION

- A. Form downspouts of size as indicated on Drawings.
- B. Form scuppers of size indicated on Drawings.
- C. Fabricate in accordance with SMACNA details unless otherwise shown.
- D. Field measure site conditions prior to fabricating work.

## ROOF SPECIALTIES

- E. Form sections square, true, and accurate in size, in maximum possible lengths and free of distortion or defects detrimental to appearance or performance. Allow for expansion at joints.
- F. Hem exposed edges of metal.
- G. Field Finishing: Field paint downspouts and accessories surfaces exposed to view from ground surface unless noted as prefinished or unpainted on Drawings. Paint in accordance with Section 099000.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Verify that surfaces are ready to receive work and conditions are acceptable.
- B. Verify surfaces behind downspouts are painted prior to installation. Downspouts and conductor heads shall not be in place while surfaces behind such items are being painted.

### 3.2 COPING INSTALLATION

- A. General: Install roof specialties according to manufacturer's written instructions. Anchor roof specialties securely in place, with provisions for thermal and structural movement. Use fasteners, solder, protective coatings, separators, sealants, and other miscellaneous items as required to complete roof-specialty systems.
  - 1. Corner Support Clips: Locate and fasten galvanized corner support clips to wall.
  - 2. Miter Splice Plate and Anchor Clip: Position the splice plate in the center of the anchor clip. Install the splice plate and anchor clip assembly into each other.
  - 3. Miter: Place the miter corner assembly into position and secure at the exposed edge of the anchor clips.
  - 4. Endcap Anchor Clips: Locate and fasten galvanized anchor clips to wall with provided fasteners for substrate using the third full top hole from the inside face bend, and the first full hole from the outside face bend.
  - 5. Endcap Splice Plates: Remove release paper from top of factory applied sealant strips. Place splice plate onto second anchor clip as shown.
  - 6. Endcap: Hook outside face of endcap over the anchor clips and rotate into place. Engage rear leg onto anchor clips by pressing downward until snap lock occurs.
  - 7. Coping Anchor Clips: Locate and fasten galvanized anchor clips to wall 4'-0" on center to provided fasteners. Use the third full hold from the inside face bend and the fist hole from the outside face bend.
  - 8. Coping Splice Plates: Place splice plates onto anchor clips at splice joints, 12'-0" on center. Remove release paper from sealant strips.
  - 9. Coping Panels: Hook outside face of coping over the anchor clips and rotate into place. Engage rear leg onto anchor clips by pressing downward until snap lock occurs. Continue installing panels with a 3/8" space between each. Field cut where necessary using a fine-tooth hacksaw. Remove clear protective film.

### 3.3 SCUPPER AND DOWNSPOUT INSTALLATION

- A. Install downspouts in accordance with SMACNA Figure 1-35G, space straps at 48 inches on center.
- B. Install conductor heads and downspouts after application of exterior wall coating.
- C. Install scuppers in accordance with SMACNA Figure 1-26 or Figure 1-30, as applicable, except as otherwise shown on the drawings. Install TPO coated metal scuppers in accordance with Manufacturer's instructions. Install scuppers before installation of roofing membrane.

## ROOF SPECIALTIES

- D. Apply bituminous coating on backside of conductor heads and downspouts and on other downspout, and accessories surfaces in contact with dissimilar materials, masonry, and preservative treated wood.

#### 3.4 CLEANING AND PROTECTION

- A. Clean and neutralize flux materials. Clean off excess solder and sealants.
- B. Remove temporary protective coverings and strippable films as roof specialties are installed.

END OF SECTION 077100

CONTRACTOR'S RECORD LETTER OF CONFORMANCE  
SECTION 077100 – ROOF SPECIALTIES

Project Location: \_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_  
(City & State)

Project Number: \_\_\_\_\_ Store Number: \_\_\_\_\_

## Statement of Conformance:

This Record Letter of Conformance is provided as a Record Document in accordance with Section 017700 – Closeout Procedures. The undersigned hereby declares that the roof specialties are installed and are in general conformance with the Contract Documents, applicable Codes, and shop drawings. The roof specialties have been provided and placed in operational condition in accordance with the Manufacturer's published instructions and the Contract Documents. To be accepted, all signatures must be original ink signatures (copies are not allowed).

## ROOF SPECIALTIES INSTALLER:

\_\_\_\_\_  
(Subcontractor Signature)\_\_\_\_\_  
(Subcontractor name and address) Phone Number: (    ) \_\_\_\_\_

## CONTRACTOR:

\_\_\_\_\_  
(Contractor Signature)\_\_\_\_\_  
(Contractor name and address) Phone Number: (    ) \_\_\_\_\_