



PRODUCT SPECIFICATIONS

B & B Sheet Metal, 25-40 50th Avenue,
Long Island City, New York 11101
PHONE: 718-433-2501; FAX: 718-433-2709;
EMAIL: info@bbsheetmetal.com
WEBSITE: www.bbsheetmetal.com

SECTION 07 63 13 - ROOF DRAINAGE SHEET METAL

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes: [Custom fabricated] [Manufactured] sheet metal fabrications to convey rainwater from roof areas including:
 - 1. Downspouts.
- B. Related sections:
 - 1. Section [07 50 00 - Membrane Roofing] [_____]: Roof system to coordinate with roof drainage sheet metal.
 - 2. Section 07 62 00 - Sheet Metal Flashings and Trim: Sheet metal flashings, counter flashings, and trim installed as part of roof system to prevent water penetration.
 - 3. Section 07 92 00 - Joint Sealants: Sealants and backing material used for installation of sheet metal.

1.2 REFERENCES

- A. American Society for Testing and Materials (ASTM):
 - 1. ASTM A167 - Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
 - 2. Section A308 - Steel Sheet, Terne (Lead-Tin Alloy) Coated by Hot-Dip Process.
 - 3. ASTM A653 - Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by Hot-Dip Process.
 - 4. ASTM B32 - Solder Metal.
 - 5. ASTM B101 - Lead-Coated Copper Sheet and Strip for Building Construction
 - 6. ASTM B209 - Aluminum and Aluminum-Alloy Sheet and Plate.
 - 7. ASTM B370 - Copper Sheet and Strip for Building Construction.
- B. National Roofing Contractors Association (NRCA): NRCA Roofing Manual.



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- C. Sheet Metal and Air Conditioning Contractors National Association (SMACNA) – SMACNA Architectural Sheet Metal Manual.

1.3 SUBMITTALS

- A. Submit in accordance with Section 01 33 00 - Submittal Procedures:
 - 1. Product data.
 - 2. Shop drawings for roof drainage sheet metal items showing profiles, dimensions, material gauges, fastening methods, and installation details.
 - 3. Sample of selected material and finish.
 - 4. Manufacturer's installation and maintenance instructions.

1.4 QUALITY ASSURANCE

- A. Perform work in accordance with applicable NRCA Roofing Manual and SMACNA Architectural Sheet Metal Manual details and requirements.

1.5 HANDLING

- A. Stack preformed material to prevent twisting, bending, or abrasion. Provide ventilation.
- B. Prevent contact with materials during storage which may cause discoloration, staining, or damage.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. B & B Sheet Metal, Inc.
25-40 50th Avenue
Long Island City, New York 11101;
P: 718-433-2501 F: 718-433-2709
www.bbsheetmetal.com.
- B. Requests to use equivalent products of other manufacturers shall be submitted in accordance with Section 01630 - Product Substitution Procedures.



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2.2 MATERIALS

- A. Galvanized sheet steel: Zinc-coated steel sheet complying with ASTM A653, 26 gauge thick.
- B. Copper sheet: Plain copper sheet complying with ASTM B370 and weighing [16] [20] ounces per square foot.
- C. Pre-patinaed copper sheet: Copper sheet weighing 16 ounces per square foot and complying with ASTM B370 with greenish-brown patina oxidation film; Evergreen Copper as provided by B & B Sheet Metal.
- D. Lead-coated copper: Copper sheet with a thin lead coating complying with ASTM B101 and weighing 16 ounces per square foot.
- E. Aluminum sheet: 0.025 inch thick aluminum sheet complying with ASTM B209 and finished with thermoset polyester enamel finish.
 - 1. Color: [Brown] [High gloss white] [Bronze].
- F. Stainless steel: [26] [24] gauge corrosion resistant chromium, tin, and steel alloy complying with ASTM A167.
- G. Terne-coated stainless steel: 26 gauge stainless steel sheet with a hot dipped lead and tin terne coating complying with ASTM A167 and ASTM A308.
- H. Sealant: [Silicone] [Polyurethane] [Acrylic] [_____] type specified in Section 07 92 00 - Joint Sealants.
- I. Solder: ASTM B32.

2.3 DOWNSPOUTS

- A. Type: [Model [Plain Round] [Plain Square] [Square Corrugated] [Quintet] [Creator]; Vertical sheet metal pipe to carry rainwater from [gutters] [leader/conductor heads] [scuppers] as manufactured by B & B Sheet Metal.]
- B. Shape and size: [[3] [4] inches diameter round downspout with a smooth surface.] [2 by 3] [3 by 4] [4 by 5] inches rectangular downspout with smooth surfaces.] [[2 by 3] [3 by 4] inches rectangular downspout with a corrugated front surface.]
- C. Material: [Galvanized sheet steel] [Copper sheet.] [Evergreen copper sheet.] [Lead-coated copper.] [Aluminum sheet with [brown] [high gloss white] [bronze] thermoset enamel paint finish.] [Stainless steel.] [Terne-coated stainless steel.]



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- D. Fabricate downspouts with roll forming downspout machine in maximum lengths to eliminate field joints. Provide downspouts with angled bottom boot.
- E. Straps: Provide decorative sheet metal straps with fasteners to attach downspout to exterior walls fabricated from material and finish to match downspout; [Model [Violet] [Emerald] [Fancy] [Pine] [Scarlet] [Sienna] [Royal] [[Topaz] [Crimson] as manufactured by B & B Sheet Metal.] [Custom fabricated strap as detailed on Drawings and reviewed shop drawings and fabricated by B an B Sheet Metal.]
- F. Accessories: Provide downspouts with [elbows] [pipe cleanouts] [brackets] [_____], and other accessories manufactured by B & B Sheet Metal and as indicated on Drawings and reviewed shop drawings or as otherwise required for a complete, secure, functional installation.

2.4 FABRICATION

- A. Fabricate sections to profiles and dimensions indicated on Drawings and reviewed shop drawings.
- B. Linear components: Form in longest possible lengths with 8 foot as minimum.
- C. Intersections: Cope to fit accurately and solder.
- D. Edges: Turn back all exposed edges to form 1/2 inch hem.
- E. Soldering: Clean and tin materials. Completely fill seams with solder. Soldering on exposed finished surfaces shall be neat, full flowing, and smooth. after soldering, remove flux and wipe and wash joints clean.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Coordinate provision of roof drainage sheet metal with type and installation of exterior walls and parapets, roof deck and membrane, wood blocking and nailers, exterior wall finishes, and other work related to sheet metal.
- B. Deliver sheet metal to site in time for accurate placement and coordination with other work.
- C. Verify roof membrane terminations and base flashings are in place, sealed, and secure.



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D. Coat dissimilar materials in contact with sheet metal:

1. Concrete and masonry: One coat bituminous paint.
2. Wood: 2 coats aluminum paint.

3.2 INSTALLATION

- A. Install roof drainage sheet metals in accordance with Drawings, reviewed shop drawings, manufacturer's instructions and standards of workmanship as published by SMACNA.
- B. Do not allow sheet metal to come in contact with dissimilar materials.
- C. Do not install bent, twisted, scratched, or otherwise damaged sheet metal fabrications. Remove from site and replace.
- D. Erect sheet metal plumb and level without bulges or waves.
- E. Fit sheet metal fabrications tight in place. Make corners square, and surfaces true and straight in planes.
- F. Secure sheet metal in place using concealed fasteners unless shown otherwise. Lap and seal all joints. Exposed fasteners shall be covered with sealant.
- G. Protect finishes of exposed to view sheet metal fabrications. Avoid gouging, scratching, and denting. Use cotton gloves when handling and installing unprotected sheet metal in order to avoid soiling exposed to view surfaces.

3.3 CLEANING

- A. Remove excess sealant by moderate use of mineral spirits or other solvent acceptable to sealant manufacturer.
- B. Exercise care in removing mortar, cementitious materials, and sand from roof drainage sheet metal. Do not wipe surfaces in order to avoid scratching.
- C. Wash exposed surfaces with solution of mild detergent applied with soft cloth. Wipe surfaces clean.

END OF SECTION