SECTION 07 71 00

MANUFACTURED ROOF SPECIALTIES

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\*\* NOTE TO SPECIFIER \*\* B&B Sheetmetal; roof specialties, gutters, and skylights.  
This section is based on the products of B&B Sheetmetal, which is located at:  
25-40 50th Ave.  
Long Island City, NY 11101  
Tel: 718-433-2501  
Fax: 718-433-2709  
Email: [request info (info@bbsheetmetal.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=B%26B+Sheetmetal&coid=43577&rep=&fax=718-433-2709&message=RE:%20Spec%20Question%20(07710bab):%20%20&mf=)  
Web: [www.bbsheetmetal.com](http://www.bbsheetmetal.com)   
 [ [Click Here](http://www.arcat.com/arcatcos/cos43/arc43577.html) ] for additional information.  
B and B Sheet Metal is a leading manufacturer of exterior architectural sheet metal products in the northeast.  
We are known for our attention to detail, our design capabilities, our competitive pricing and our lead time on all our projects.  
Our dedicated staff and field technicians provide one on one service and precision to ensure each project is fabricated to perfection and on time. Through our unique process, our estimating and design department carefully breakdown, draft, plan and estimate projects.  
With four generations of experience in sheet metal and restoration B and B Sheet Metal sets and upholds a new level of excellence in the industry.

1. GENERAL
   1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete, add items below not required for project.

* + 1. Skylights, flat roof.
    2. Skylights, sloped roof.
    3. Cornices.
    4. Drainage Systems:
       1. Gutter systems.
       2. Leaders or downspouts and elbows.
       3. Scuppers or eave boxes.
       4. Leader heads or conductor heads.
       5. Flange tubes.
    5. Cupolas.
    6. Ventilators.
    7. Roof hatches.
  1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 05 50 00 - Metal Fabrications.
    2. Section 06 10 00 - Rough Carpentry.
    3. Section 07 31 13 - Asphalt Shingles.
    4. Section 07 50 00 - Membrane Roofing.
    5. Section 07 62 00 - Sheet Metal Flashing and Trim.
    6. Section 07 72 13 - Manufactured Curbs.
    7. Section 07 90 00 - Joint Protection.
    8. Section 22 14 26.13 - Roof Drains.
  1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. ASTM International (ASTM):
       1. ASTM A 240 - Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications.
       2. ASTM A 480 - Standard Specification for General Requirements for Flat-Rolled Stainless and Heat-Resisting Steel Plate, Sheet, and Strip.
       3. ASTM A 653 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
       4. ASTM A 666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.
       5. ASTM B 370 - Standard Specification for Copper Sheet and Strip for Building Construction.
  1. SUBMITTALS
     1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
     2. 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.
        4. Cleaning and maintenance instructions.
     3. Shop Drawings: Including but not limited to profiles, accessory items, anchorage and flashing details, interface with adjacent construction, and dimensions.
     4. Verification Samples: For each finish product specified, two sample chips representing actual product, color, and patterns.
     5. Closeout Submittals: Documentation of manufacturer's warranty.
  2. QUALITY ASSURANCE
     1. Single Source Requirements: To the greatest extent possible provide products specified in this section by a single manufacturer.

\*\* NOTE TO SPECIFIER \*\* Include a mock-up if the project size and/or quality warrant the precaution. When deciding on the extent of the mock-up, consider the major different types of work on the project.

* + 1. 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 and appearance are approved by Architect.
       3. Subject to approval by Architect, mock-up may be retained as part of finish work.
    2. Pre-Installation Meetings: Conduct pre-installation meetings to verify project requirements, substrate conditions, construction documents, details and manufacturer's warranty requirements.
  1. DELIVERY, STORAGE, AND HANDLING
     1. Delivery: Deliver materials in manufacturer's original, unopened, undamaged rolls/pallets with identification labels intact.
     2. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.
  2. PROJECT CONDITIONS
     1. 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.
  3. WARRANTY
     1. Manufacturer's Warranty: Submit manufacturer's standard limited warranty against defects in manufacturing.
        1. PRODUCTS

\*\* NOTE TO SPECIFIER \*\* Delete article if not required.

* 1. MANUFACTURERS
     1. Acceptable Manufacturer: B&B Sheetmetal, which is located at: 25-40 50th Ave.; Long Island City, NY 11101; Tel: 718-433-2501; Fax: 718-433-2709; Email: [request info (info@bbsheetmetal.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=B%26B+Sheetmetal&coid=43577&rep=&fax=718-433-2709&message=RE:%20Spec%20Question%20(07710bab):%20%20&mf=); Web: [www.bbsheetmetal.com](http://www.bbsheetmetal.com)

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
    2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

\*\* NOTE TO SPECIFIER \*\* Skylights made of sheet metal are light in weight and superior in strength. Metal fabricated Skylights supersede iron made since there is no expansion and thus less leaks and glass breakage. Metal made skylights are also fireproof. Delete article if not required.

* 1. SKYLIGHTS, FLAT ROOF

\*\* NOTE TO SPECIFIER \*\* Flat Pitch Skylights are made for flat roofs and have no vents. Delete if not required.

* + 1. Basis of Design: Flat Pitch Skylights as manufactured by B and B Sheet Metal.

\*\* NOTE TO SPECIFIER \*\* Delete base type not required.

* + - 1. Louvered Base.
      2. Turret Base.
      3. Dimensions:

\*\* NOTE TO SPECIFIER \*\* Delete length, width, and height options not required.

* + - * 1. Length: As designated on the Drawings.
        2. Length (in / mm): \_\_\_\_\_\_.
        3. Width: As designated on the Drawings.
        4. Width (in / mm): \_\_\_\_\_\_.
        5. Height: As designated on the Drawings.
        6. Height: 24 in (610 mm).
        7. Height (in / mm): \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete glazing option not required.

* + - 1. Glazing Material: See section 08 83 13 - Mirrored Glass Glazing.
      2. Glazing Material: As specified on the Drawings.
      3. Glazing Material: \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Optional. Delete if not required.

* + - 1. Protective Screens.
      2. Material:

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Galvanized Steel: 24 ga. ASTM A 653.
        2. Galvanized Steel: 26 ga. ASTM A 653.
        3. Copper: 16 oz per sq ft. ASTM B 370.
        4. Copper: 20 oz per sq ft. ASTM B 370.
        5. Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        6. Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
        7. Evergreen Copper: 16 oz per sq ft. ASTM B 370.
        8. Evergreen Copper: 20 oz per sq ft. ASTM B 370.
        9. Terne Coated Stainless Steel: 24 ga. ASTM A 240 or ASTM A 666.
        10. Terne Coated Stainless Steel: 26 ga. ASTM A 240 or ASTM A 666.
        11. Freedom Gray (Zinc Coated Copper): 16 oz. ASTM B 370.
        12. Freedom Gray (Zinc Coated Copper): 20 oz. ASTM B 370.

\*\* NOTE TO SPECIFIER \*\* Gable Skylights normally last up to 100 years without any required maintenance. They are made for flat roofs and have no vents. Delete if not required.

* + 1. Basis of Design: Gable Skylights as manufactured by B and B Sheet Metal.

\*\* NOTE TO SPECIFIER \*\* Delete base type not required.

* + - 1. Louvered Base.
      2. Turret Base.
      3. Dimensions:

\*\* NOTE TO SPECIFIER \*\* Delete length, width, and height options not required.

* + - * 1. Length: As designated on the Drawings.
        2. Length (in / mm): \_\_\_\_\_\_.
        3. Width: As designated on the Drawings.
        4. Width (in / mm): \_\_\_\_\_\_.
        5. Height: As designated on the Drawings.
        6. Height: 24 in (610 mm).
        7. Height (in / mm): \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete glazing option not required.

* + - 1. Glazing Material: See section 08 83 13 - Mirrored Glass Glazing.
      2. Glazing Material: As specified on the Drawings.
      3. Glazing Material: \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Optional. Delete if not required.

* + - 1. Protective Screens.
      2. Material:

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Galvanized Steel: 24 ga. ASTM A 653.
        2. Galvanized Steel: 26 ga. ASTM A 653.
        3. Copper: 16 oz per sq ft. ASTM B 370.
        4. Copper: 20 oz per sq ft. ASTM B 370.
        5. Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        6. Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
        7. Evergreen Copper: 16 oz per sq ft. ASTM B 370.
        8. Evergreen Copper: 20 oz per sq ft. ASTM B 370.
        9. Terne Coated Stainless Steel: 24 ga. ASTM A 240 or ASTM A 666.
        10. Terne Coated Stainless Steel: 26 ga. ASTM A 240 or ASTM A 666.
        11. Freedom Gray (Zinc Coated Copper): 16 oz. ASTM B 370.
        12. Freedom Gray (Zinc Coated Copper): 20 oz. ASTM B 370.

\*\* NOTE TO SPECIFIER \*\* Hip Ridge Skylights offer a pyramidal effect within a rectangular opening. Designed for flat roofs, with four sides and no vents. Can be adapted to a variety of applications and built to your specifications. Delete if not required.

* + 1. Basis of Design: Hip Ridge Skylights as manufactured by B and B Sheet Metal.

\*\* NOTE TO SPECIFIER \*\* Delete base type not required.

* + - 1. Louvered Base.
      2. Turret Base.
      3. Dimensions:

\*\* NOTE TO SPECIFIER \*\* Delete length, width, and height options not required.

* + - * 1. Length: As designated on the Drawings.
        2. Length (in / mm): \_\_\_\_\_\_.
        3. Width: As designated on the Drawings.
        4. Width (in / mm): \_\_\_\_\_\_.
        5. Height: As designated on the Drawings.
        6. Height: 24 in (610 mm).
        7. Height (in / mm): \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete glazing option not required.

* + - 1. Glazing Material: See section 08 83 13 - Mirrored Glass Glazing.
      2. Glazing Material: As specified on the Drawings.
      3. Glazing Material: \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Optional. Delete if not required.

* + - 1. Protective Screens.
      2. Material:

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Galvanized Steel: 24 ga. ASTM A 653.
        2. Galvanized Steel: 26 ga. ASTM A 653.
        3. Copper: 16 oz per sq ft. ASTM B 370.
        4. Copper: 20 oz per sq ft. ASTM B 370.
        5. Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        6. Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
        7. Evergreen Copper: 16 oz per sq ft. ASTM B 370.
        8. Evergreen Copper: 20 oz per sq ft. ASTM B 370.
        9. Terne Coated Stainless Steel: 24 ga. ASTM A 240 or ASTM A 666.
        10. Terne Coated Stainless Steel: 26 ga. ASTM A 240 or ASTM A 666.
        11. Freedom Gray (Zinc Coated Copper): 16 oz. ASTM B 370.
        12. Freedom Gray (Zinc Coated Copper): 20 oz. ASTM B 370.

\*\* NOTE TO SPECIFIER \*\* Hip Vent Skylights are the most popular skylight in New York City. Designed for flat roofs and maintain four sides and vents in both the top part as well as the middle portion. Delete if not required.

* + 1. Basis of Design: Hip Vent Skylights as manufactured by B and B Sheet Metal.

\*\* NOTE TO SPECIFIER \*\* Delete base type not required.

* + - 1. Louvered Base.
      2. Turret Base.
      3. Dimensions:

\*\* NOTE TO SPECIFIER \*\* Delete length, width, and height options not required.

* + - * 1. Length: As designated on the Drawings.
        2. Length (in / mm): \_\_\_\_\_\_.
        3. Width: As designated on the Drawings.
        4. Width (in / mm): \_\_\_\_\_\_.
        5. Height: As designated on the Drawings.
        6. Height: 24 in (610 mm).
        7. Height (in / mm): \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete glazing option not required.

* + - 1. Glazing Material: See section 08 83 13 - Mirrored Glass Glazing.
      2. Glazing Material: As specified on the Drawings.
      3. Glazing Material: \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Optional. Delete if not required.

* + - 1. Protective Screens.
      2. Material:

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Galvanized Steel: 24 ga. ASTM A 653.
        2. Galvanized Steel: 26 ga. ASTM A 653.
        3. Copper: 16 oz per sq ft. ASTM B 370.
        4. Copper: 20 oz per sq ft. ASTM B 370.
        5. Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        6. Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
        7. Evergreen Copper: 16 oz per sq ft. ASTM B 370.
        8. Evergreen Copper: 20 oz per sq ft. ASTM B 370.
        9. Terne Coated Stainless Steel: 24 ga. ASTM A 240 or ASTM A 666.
        10. Terne Coated Stainless Steel: 26 ga. ASTM A 240 or ASTM A 666.
        11. Freedom Gray (Zinc Coated Copper): 16 oz. ASTM B 370.
        12. Freedom Gray (Zinc Coated Copper): 20 oz. ASTM B 370.

\*\* NOTE TO SPECIFIER \*\* Specifically designed to be up to code and in compliance with all fire and other ordinances for the City of New York. Delete if not required.

* + 1. Basis of Design: New York City Approved Skylights as manufactured by B and B Sheet Metal.

\*\* NOTE TO SPECIFIER \*\* Delete base type not required.

* + - 1. Louvered Base.
      2. Turret Base.
      3. Dimensions:

\*\* NOTE TO SPECIFIER \*\* Delete length, width, and height options not required.

* + - * 1. Length: As designated on the Drawings.
        2. Length (in / mm): \_\_\_\_\_\_.
        3. Width: As designated on the Drawings.
        4. Width (in / mm): \_\_\_\_\_\_.
        5. Height: As designated on the Drawings.
        6. Height: 24 in (610 mm).
        7. Height (in / mm): \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete glazing option not required.

* + - 1. Glazing Material: See section 08 83 13 - Mirrored Glass Glazing.
      2. Glazing Material: As specified on the Drawings.
      3. Glazing Material: \_\_\_\_\_\_.
      4. Protective Screens.
      5. Material:

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Galvanized Steel: 24 ga. ASTM A 653.
        2. Galvanized Steel: 26 ga. ASTM A 653.
        3. Copper: 16 oz per sq ft. ASTM B 370.
        4. Copper: 20 oz per sq ft. ASTM B 370.
        5. Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        6. Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
        7. Evergreen Copper: 16 oz per sq ft. ASTM B 370.
        8. Evergreen Copper: 20 oz per sq ft. ASTM B 370.
        9. Terne Coated Stainless Steel: 24 ga. ASTM A 240 or ASTM A 666.
        10. Terne Coated Stainless Steel: 26 ga. ASTM A 240 or ASTM A 666.
        11. Freedom Gray (Zinc Coated Copper): 16 oz. ASTM B 370.
        12. Freedom Gray (Zinc Coated Copper): 20 oz. ASTM B 370.

\*\* NOTE TO SPECIFIER \*\* Octagon Skylights function as sundials during the day time with light permitted from a multitude of angles. Delete if not required.

* + 1. Basis of Design: Octagon Skylights as manufactured by B and B Sheet Metal.
       1. Dimensions:

\*\* NOTE TO SPECIFIER \*\* Delete length, and height options not required.

* + - * 1. Octagonal Section Length: As designated on the Drawings.
        2. Octagonal Section Length (in / mm): \_\_\_\_\_\_.
        3. Height: As designated on the Drawings.
        4. Height: 24 in (610 mm).
        5. Height (in / mm): \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete glazing option not required.

* + - 1. Glazing Material: See section 08 83 13 - Mirrored Glass Glazing.
      2. Glazing Material: As specified on the Drawings.
      3. Glazing Material: \_\_\_\_\_\_.
      4. Protective Screens.
      5. Material:

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Galvanized Steel: 24 ga. ASTM A 653.
        2. Galvanized Steel: 26 ga. ASTM A 653.
        3. Copper: 16 oz per sq ft. ASTM B 370.
        4. Copper: 20 oz per sq ft. ASTM B 370.
        5. Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        6. Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
        7. Evergreen Copper: 16 oz per sq ft. ASTM B 370.
        8. Evergreen Copper: 20 oz per sq ft. ASTM B 370.
        9. Terne Coated Stainless Steel: 24 ga. ASTM A 240 or ASTM A 666.
        10. Terne Coated Stainless Steel: 26 ga. ASTM A 240 or ASTM A 666.
        11. Freedom Gray (Zinc Coated Copper): 16 oz. ASTM B 370.
        12. Freedom Gray (Zinc Coated Copper): 20 oz. ASTM B 370.

\*\* NOTE TO SPECIFIER \*\* Designed for flat roofs and available in all solderable materials. These skylights can be fabricated to accommodate any type of glass. Delete if not required.

* + 1. Basis of Design: Vented Flat Pitch Skylights as manufactured by B and B Sheet Metal.

\*\* NOTE TO SPECIFIER \*\* Delete base type not required.

* + - 1. Louvered Base.
      2. Turret Base.
      3. Dimensions:

\*\* NOTE TO SPECIFIER \*\* Delete length, width, and height options not required.

* + - * 1. Length: As designated on the Drawings.
        2. Length (in / mm): \_\_\_\_\_\_.
        3. Width: As designated on the Drawings.
        4. Width (in / mm): \_\_\_\_\_\_.
        5. Height: As designated on the Drawings.
        6. Height: 24 in (610 mm).
        7. Height (in / mm): \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete glazing option not required.

* + - 1. Glazing Material: See section 08 83 13 - Mirrored Glass Glazing.
      2. Glazing Material: As specified on the Drawings.
      3. Glazing Material: \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Optional. Delete if not required.

* + - 1. Protective Screens.
      2. Material:

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Galvanized Steel: 24 ga. ASTM A 653.
        2. Galvanized Steel: 26 ga. ASTM A 653.
        3. Copper: 16 oz per sq ft. ASTM B 370.
        4. Copper: 20 oz per sq ft. ASTM B 370.
        5. Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        6. Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
        7. Evergreen Copper: 16 oz per sq ft. ASTM B 370.
        8. Evergreen Copper: 20 oz per sq ft. ASTM B 370.
        9. Terne Coated Stainless Steel: 24 ga. ASTM A 240 or ASTM A 666.
        10. Terne Coated Stainless Steel: 26 ga. ASTM A 240 or ASTM A 666.
        11. Freedom Gray (Zinc Coated Copper): 16 oz. ASTM B 370.
        12. Freedom Gray (Zinc Coated Copper): 20 oz. ASTM B 370.

\*\* NOTE TO SPECIFIER \*\* A Sloped Roof Skylight contours to the existent shape of the sloped-roof system. A Sloped Roof Skylight is designed to accommodate both low and high roof slopes. This specific design is conducive to light admission and has proven both its aesthetic and functional prominence. Delete article not required.

* 1. SKYLIGHTS, SLOPED ROOF

\*\* NOTE TO SPECIFIER \*\* Flat Ridge Skylights is a simple version, with two long triangles sloping in towards one another, and straight triangles closing off either end. Delete if not required

* + 1. Basis of Design: Flat Ridge Skylights as manufactured by B and B Sheet Metal.

\*\* NOTE TO SPECIFIER \*\* Delete base type not required.

* + - 1. Louvered Base.
      2. Turret Base.
      3. Dimensions:

\*\* NOTE TO SPECIFIER \*\* Delete length, width, and height options not required.

* + - * 1. Length: As designated on the Drawings.
        2. Length (in / mm): \_\_\_\_\_\_.
        3. Width: As designated on the Drawings.
        4. Width (in / mm): \_\_\_\_\_\_.
        5. Height: As designated on the Drawings.
        6. Height: 24 in (610 mm).
        7. Height (in / mm): \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete glazing option not required.

* + - 1. Glazing Material: See section 08 83 13 - Mirrored Glass Glazing.
      2. Glazing Material: As specified on the Drawings.
      3. Glazing Material: \_\_\_\_\_\_.
      4. Protective Screens.
      5. Material:

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Galvanized Steel: 24 ga. ASTM A 653.
        2. Galvanized Steel: 26 ga. ASTM A 653.
        3. Copper: 16 oz per sq ft. ASTM B 370.
        4. Copper: 20 oz per sq ft. ASTM B 370.
        5. Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        6. Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
        7. Evergreen Copper: 16 oz per sq ft. ASTM B 370.
        8. Evergreen Copper: 20 oz per sq ft. ASTM B 370.
        9. Terne Coated Stainless Steel: 24 ga. ASTM A 240 or ASTM A 666.
        10. Terne Coated Stainless Steel: 26 ga. ASTM A 240 or ASTM A 666.
        11. Freedom Gray (Zinc Coated Copper): 16 oz. ASTM B 370.
        12. Freedom Gray (Zinc Coated Copper): 20 oz. ASTM B 370.

\*\* NOTE TO SPECIFIER \*\* Contrary to what the name suggests a Flat Skylight is designed for a sloped roof system. They allow for efficient light emittance into the already sloped system. Delete if not required.

* + 1. Basis of Design: Flat Skylights as manufactured by B and B Sheet Metal.

\*\* NOTE TO SPECIFIER \*\* Delete base type not required.

* + - 1. Louvered Base.
      2. Turret Base.
      3. Dimensions:

\*\* NOTE TO SPECIFIER \*\* Delete length, width, and height options not required.

* + - * 1. Length: As designated on the Drawings.
        2. Length (in / mm): \_\_\_\_\_\_.
        3. Width: As designated on the Drawings.
        4. Width (in / mm): \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete glazing option not required.

* + - 1. Glazing Material: See section 08 83 13 - Mirrored Glass Glazing.
      2. Glazing Material: As specified on the Drawings.
      3. Glazing Material: \_\_\_\_\_\_.
      4. Protective Screens.
      5. Material:

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Galvanized Steel: 24 ga. ASTM A 653.
        2. Galvanized Steel: 26 ga. ASTM A 653.
        3. Copper: 16 oz per sq ft. ASTM B 370.
        4. Copper: 20 oz per sq ft. ASTM B 370.
        5. Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        6. Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
        7. Evergreen Copper: 16 oz per sq ft. ASTM B 370.
        8. Evergreen Copper: 20 oz per sq ft. ASTM B 370.
        9. Terne Coated Stainless Steel: 24 ga. ASTM A 240 or ASTM A 666.
        10. Terne Coated Stainless Steel: 26 ga. ASTM A 240 or ASTM A 666.
        11. Freedom Gray (Zinc Coated Copper): 16 oz. ASTM B 370.
        12. Freedom Gray (Zinc Coated Copper): 20 oz. ASTM B 370.

\*\* NOTE TO SPECIFIER \*\* A Flat Vented Bulk Head Skylight is a method of providing both solar radiation or light into the structure, while circulating air through the raised portion of the piece. Delete if not required.

* + 1. Basis of Design: Flat Vented Bulkhead Skylights as manufactured by B and B Sheet Metal.

\*\* NOTE TO SPECIFIER \*\* Delete base type not required.

* + - 1. Louvered Base.
      2. Turret Base.
      3. Dimensions:

\*\* NOTE TO SPECIFIER \*\* Delete length, width, and height options not required.

* + - * 1. Length: As designated on the Drawings.
        2. Length (in / mm): \_\_\_\_\_\_.
        3. Width: As designated on the Drawings.
        4. Width (in / mm): \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete glazing option not required.

* + - 1. Glazing Material: See section 08 83 13 - Mirrored Glass Glazing.
      2. Glazing Material: As specified on the Drawings.
      3. Glazing Material: \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Optional. Delete if not required.

* + - 1. Protective Screens.
      2. Material:

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Galvanized Steel: 24 ga. ASTM A 653.
        2. Galvanized Steel: 26 ga. ASTM A 653.
        3. Copper: 16 oz per sq ft. ASTM B 370.
        4. Copper: 20 oz per sq ft. ASTM B 370.
        5. Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        6. Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
        7. Evergreen Copper: 16 oz per sq ft. ASTM B 370.
        8. Evergreen Copper: 20 oz per sq ft. ASTM B 370.
        9. Terne Coated Stainless Steel: 24 ga. ASTM A 240 or ASTM A 666.
        10. Terne Coated Stainless Steel: 26 ga. ASTM A 240 or ASTM A 666.
        11. Freedom Gray (Zinc Coated Copper): 16 oz. ASTM B 370.
        12. Freedom Gray (Zinc Coated Copper): 20 oz. ASTM B 370.

\*\* NOTE TO SPECIFIER \*\* Cornice moldings extend beyond a roof, are horizontally situated and may be interior or exterior. Delete article of not required.

* 1. CORNICES
     1. Style Type:

\*\* NOTE TO SPECIFIER \*\* Delete basis of design options not required.

* + - 1. Basis of Design: Amsterdam as manufactured by B and B Sheet Metal.
      2. Basis of Design: Cortex as manufactured by B and B Sheet Metal.
      3. Basis of Design: Gotham as manufactured by B and B Sheet Metal.
      4. Basis of Design: Lafayette as manufactured by B and B Sheet Metal.
      5. Basis of Design: Verazzano as manufactured by B and B Sheet Metal.
      6. Basis of Design: Williamsburg as manufactured by B and B Sheet Metal.
      7. Basis of Design: Custom as designated by the Architect and manufactured by B and B Sheet Metal.
      8. Basis of Design: Custom as detailed on the Drawings and manufactured by B and B Sheet Metal.
    1. Section Lengths: 10 ft (3048 mm).
       1. Mounting brackets per section: Four.
       2. Dentals per Section: 20.

\*\* NOTE TO SPECIFIER \*\* B and B Sheet Metal does not recommend using less expensive materials such as galvanized and stainless steel because they do not ultimately save you money. These materials are more difficult to work with and require extra labor. The only exception would be if there are no attachments and minimal mitering.  
We also do not recommend using more expensive materials such as terne coated stainless steel, freedom grey (zinc coated copper) or evergreen because the quality is still the same.

* + 1. Material:

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - 1. Galvanized Steel: 24 ga. ASTM A 653.
      2. Galvanized Steel: 26 ga. ASTM A 653.
      3. Copper: 16 oz per sq ft. ASTM B 370.
      4. Copper: 20 oz per sq ft. ASTM B 370.
      5. Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
      6. Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
      7. Evergreen Copper: 16 oz per sq ft. ASTM B 370.
      8. Evergreen Copper: 20 oz per sq ft. ASTM B 370.
      9. Terne Coated Stainless Steel: 24 ga. ASTM A 240 or ASTM A 666.
      10. Terne Coated Stainless Steel: 26 ga. ASTM A 240 or ASTM A 666.
      11. Freedom Gray (Zinc Coated Copper): 16 oz. ASTM B 370.
      12. Freedom Gray (Zinc Coated Copper): 20 oz. ASTM B 370.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required.

* 1. DRAINAGE SYSTEMS

\*\* NOTE TO SPECIFIER \*\* Delete gutter systems paragraph if not required.

* + 1. Gutter Systems:

\*\* NOTE TO SPECIFIER \*\* Delete Basis of design options not required.

* + - 1. Basis of Design: Americraft Gutter System and Components as manufactured by B and B Sheet Metal. Fascia hanger can be installed on the ground. Laser-welded seamless elbows. Stamped seamless miters.

\*\* NOTE TO SPECIFIER \*\* Delete copper type not required.

* + - * 1. Copper: 16 oz per sq ft. ASTM B 370.
        2. Copper: 20 oz per sq ft. ASTM B 370.
        3. Stiffening ribs or striations to limit oil-canning.
        4. Components:

\*\* NOTE TO SPECIFIER \*\* Delete components not required.

Downspout.

Downspout bracket.

Downspout connector.

Downspout elbow 72 degrees.

Expansion roll.

Fascia hanger.

Gutter.

Gutter connector.

Gutter hook.

Gutter miter inside corner.

Gutter miter outside corner.

Gutter outlet.

Gutter sieve.

Gutter stop end (push in) gasket.

Leaf protector.

Quarter ball end cap.

Star outlet for half round gutters.

Stop end half round for seaming.

* + - * 1. Finishes:

\*\* NOTE TO SPECIFIER \*\* Delete finish options not required.

Pac-Clad:

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

Color: As determined by Architect from manufacturers standard options.

Color: \_\_\_\_\_\_.

Englert:

\*\* NOTE TO SPECIFIER \*\* Delete coating option not required.

Permacolor 3500 full strength 70 percent Kynar 500 / Hylar 5000:

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

Color: As determined by Architect from manufacturers standard options.

Color: \_\_\_\_\_.

Perrmetallics 2500:

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

Color: As determined by Architect from manufacturers standard options.

Color: \_\_\_\_\_\_.

Mill Finish: Galvalume Plus

Firestone:

\*\* NOTE TO SPECIFIER \*\* Delete coating option not required.

Una-Clad Solar-Reflectant:

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

Color: As determined by Architect from manufacturers standard options.

Color: \_\_\_\_\_\_.

Una Clad:

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

Color: As determined by Architect from manufacturers standard options.

Color: \_\_\_\_\_\_.

* + - 1. Basis of Design: B-Max Gutter System and Components as manufactured by B and B Sheet Metal.
         1. Seamless gutters.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Galvanized Steel 22 ga. ASTM A 653.
        2. Material: Galvanized Steel: 24 ga. ASTM A 653.
        3. Material: Copper: 16 oz per sq ft. ASTM B 370.
        4. Material: Copper: 20 oz per sq ft. ASTM B 370.
        5. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        6. Material: Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
        7. Material: Kynar Aluminum: 0.032 in (0.81 mm).
        8. Material: Kynar Aluminum: 0.040 in (1.02 mm).
        9. Material: Kynar Aluminum: 0.050 in (1.27 mm).
        10. Material: Kynar Aluminum: 0.063 in (1.60 mm).
        11. Material: Bronze: 0.032 in (0.81 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color not required.

Color: White.

Color: Gloss White.

\*\* NOTE TO SPECIFIER \*\* Delete profile designation options not required.

* + - * 1. Profile Designation: 01.
        2. Profile Designation: 02.
        3. Profile Designation: 03.
        4. Profile Designation: 04.
        5. Profile Designation: 05.
        6. Profile Designation: 06.
        7. Profile Designation: 07.
        8. Profile Designation: 08.
        9. Profile Designation: 09.
        10. Profile Designation: 10.
        11. Profile Designation: 11.
        12. Profile Designation: 12.

\*\* NOTE TO SPECIFIER \*\* Delete profile size options not required

* + - * 1. Profile Size: 5 in x 10 ft (125 x 3048 mm).
        2. Profile Size: 5 in x 20 ft (127 x 6096 mm).
        3. Profile Size: 5 in x 26 ft (127 x 7925 mm).
        4. Profile Size: 6 in x 10 ft (152 x 3048 mm).
        5. Profile Size: 6 in x 20 ft (152 x 6096 mm).
        6. Profile Size: 6 in x 26 ft (152 x 7925 mm).
        7. Components:

Fascia Hangers:

\*\* NOTE TO SPECIFIER \*\* Delete hanger type not required.

Hidden hangers with screws.

\*\* NOTE TO SPECIFIER \*\* Delete Material option not required.

Mill finish aluminum.

Brass.

Traditional 1/8 in ( mm) hidden hangers.

\*\* NOTE TO SPECIFIER \*\* Delete Material option not required.

Mill finish aluminum.

Copper.

End caps, left and right.

Miter end caps, left and right.

Miters, inside and outside.

* + - 1. Basis of Design: Flange Back 6K Gutters as manufactured by B and B Sheet Metal.
         1. Seamless gutters. Tapered back wall to control water flow. Design eliminates possibility of water getting behind the gutter as it can on typical gutter and drip cap systems.
         2. Lengths: up to 26 ft (7925 mm).

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Galvanized Steel 22 ga. ASTM A 653.
        2. Material: Galvanized Steel: 24 ga. ASTM A 653.
        3. Material: Copper: 16 oz per sq ft. ASTM B 370.
        4. Material: Copper: 20 oz per sq ft. ASTM B 370.
        5. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        6. Material: Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
        7. Material: Kynar Aluminum: 0.032 in (0.81 mm).
        8. Material: Kynar Aluminum: 0.040 in (1.02 mm).
        9. Material: Kynar Aluminum: 0.050 in (1.27 mm).
        10. Material: Kynar Aluminum: 0.063 in (1.60 mm).
        11. Finishes:

\*\* NOTE TO SPECIFIER \*\* Delete finish options not required.

Pac-Clad:

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

Color: As determined by Architect from manufacturers standard options.

Color: \_\_\_\_\_\_.

Englert:

\*\* NOTE TO SPECIFIER \*\* Delete coating option not required.

Permacolor 3500 full strength 70 percent Kynar 500 / Hylar 5000:

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

Color: As determined by Architect from manufacturers standard options.

Color: \_\_\_\_\_.

Perrmetallics 2500:

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

Color: As determined by Architect from manufacturers standard options.

Color: \_\_\_\_\_\_.

Mill Finish: Galvalume Plus

Firestone:

\*\* NOTE TO SPECIFIER \*\* Delete coating option not required.

Una-Clad Solar-Reflectant:

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

Color: As determined by Architect from manufacturers standard options.

Color: \_\_\_\_\_\_.

Una Clad:

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

Color: As determined by Architect from manufacturers standard options.

Color: \_\_\_\_\_\_.

* + - 1. Basis of Design: Traditional K-Style (Ogee) Gutters as manufactured by B and B Sheet Metal.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
        2. Material: Copper: 20 oz per sq ft. ASTM B 370.
        3. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        4. Material: Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
        5. Material: Bronze: 0.032 in (0.81 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color not required.

Color: White.

Color: Gloss White.

\*\* NOTE TO SPECIFIER \*\* Delete profile designation options not required.

* + - * 1. Profile Designation: 4K.
        2. Profile Designation: 5K.
        3. Profile Designation: 6K.
        4. Profile Designation: 7K.
        5. Profile Designation: 8K.

\*\* NOTE TO SPECIFIER \*\* Delete section lengths not required.

* + - * 1. Section Lengths: 10 ft (3048 mm)
        2. Section Lengths: 12 ft (3658 mm)
        3. Section Lengths: 16 ft (4877 mm)
        4. Section Lengths: 18 ft (5486 mm)
        5. Section Lengths: 20 ft (6096 mm)
        6. Section Lengths: 22 ft (6706 mm)
        7. Section Lengths: 24 ft (7315 mm)
        8. Section Lengths: 26 ft (7925 mm)
        9. Components:

Fascia Hangers:

\*\* NOTE TO SPECIFIER \*\* Delete hanger type not required.

Hidden hangers with screws.

\*\* NOTE TO SPECIFIER \*\* Delete Material option not required.

Mill finish aluminum.

Brass.

Traditional 1/8 in (3 mm) hidden hangers.

\*\* NOTE TO SPECIFIER \*\* Delete Material option not required.

Mill finish aluminum.

Copper.

End caps, left and right.

Miter end caps, left and right.

Miters, inside and outside.

* + - 1. Basis of Design: Half Round Gutters as manufactured by B and B Sheet Metal.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
        2. Material: Copper: 20 oz per sq ft. ASTM B 370.
        3. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        4. Material: Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
        5. Material: Bronze: 0.032 in (0.81 mm).

Color: White.

Color: Gloss White.

\*\* NOTE TO SPECIFIER \*\* Delete profile designations not required.

* + - * 1. Profile Designation: 4 in (102 mm).
        2. Profile Designation: 5 in (127 mm).
        3. Profile Designation: 6 in (152 mm).
        4. Profile Designation: 7 in (178 mm).
        5. Profile Designation: 8 in (203 mm).
        6. Section Lengths: 10 ft (3048 mm)
        7. Components:

Elbow 72 degrees.

Fascia No. 10 combo hanger.

Gutter outlet.

End caps.

Miters, inside and outside.

\*\* NOTE TO SPECIFIER \*\* Delete leaders or downspouts and elbows paragraph if not required.

* + 1. Leaders or Downspouts and Elbows: Vertical pipes that carry rainwater from gutters to ground, sewers, or wells.

\*\* NOTE TO SPECIFIER \*\* Delete basis of design options not required.

* + - 1. Basis of Design: Plain Square Downspout as manufactured by B and B Sheet Metal.

\*\* NOTE TO SPECIFIER \*\* Delete size options not required.

* + - * 1. Size: 2 x 3 in (51 x 76 mm).
        2. Size: 3 x 4 in (76 x 102 mm)
        3. Size: 4 x 5 in (102 x 127 mm)
        4. Downspout elbows.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
        2. Material: Copper: 20 oz per sq ft. ASTM B 370.
        3. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        4. Material: Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
        5. Material: Kynar Aluminum: 0.032 in (0.81 mm).
        6. Material: Kynar Aluminum: 0.040 in (1.02 mm).
        7. Material: Kynar Aluminum: 0.050 in (1.27 mm).
        8. Material: Kynar Aluminum: 0.063 in (1.60 mm).
      1. Basis of Design: Plain Round Copper Downspouts as manufactured by B and B Sheet Metal. Seam in back and tapered, to provide a snug fit without excessive crimping on the end.
         1. Downspout elbows.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
        2. Material: Copper: 20 oz per sq ft. ASTM B 370.
        3. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        4. Material: Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
      1. Basis of Design: Plain Round Leader as manufactured by B and B Sheet Metal. Smooth, cylinder-shaped downspout, that enables easy passage of water flow.
         1. Downspout elbows.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
        2. Material: Copper: 20 oz per sq ft. ASTM B 370.
        3. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        4. Material: Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
      1. Basis of Design: Square Corrugated Downspouts as manufactured by B and B Sheet Metal.
         1. Downspout elbows.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
        2. Material: Copper: 20 oz per sq ft. ASTM B 370.
        3. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        4. Material: Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
        5. Material: Kynar Aluminum: 0.032 in (0.81 mm).
        6. Material: Kynar Aluminum: 0.040 in (1.02 mm).
        7. Material: Kynar Aluminum: 0.050 in (1.27 mm).
        8. Material: Kynar Aluminum: 0.063 in (1.60 mm).
      1. Basis of Design: Round Corrugated Downspouts as manufactured by B and B Sheet Metal.
         1. Downspout elbows.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Galvanized Steel 22 ga. ASTM A 653.
        2. Material: Galvanized Steel: 24 ga. ASTM A 653.
        3. Material: Copper: 16 oz per sq ft. ASTM B 370.
        4. Material: Copper: 20 oz per sq ft. ASTM B 370.
        5. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        6. Material: Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
        7. Material: Kynar Aluminum: 0.032 in (0.81 mm).
        8. Material: Kynar Aluminum: 0.040 in (1.02 mm).
        9. Material: Kynar Aluminum: 0.050 in (1.27 mm).
        10. Material: Kynar Aluminum: 0.063 in (1.60 mm).
        11. Material: Stainless steel. ASTM A 480
      1. Basis of Design: Creator Downspouts as manufactured by B and B Sheet Metal.
         1. Downspout elbows.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Galvanized Steel 22 ga. ASTM A 653.
        2. Material: Galvanized Steel: 24 ga. ASTM A 653.
        3. Material: Copper: 16 oz per sq ft. ASTM B 370.
        4. Material: Copper: 20 oz per sq ft. ASTM B 370.
        5. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        6. Material: Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
        7. Material: Kynar Aluminum: 0.032 in (0.81 mm).
        8. Material: Kynar Aluminum: 0.040 in (1.02 mm).
        9. Material: Kynar Aluminum: 0.050 in (1.27 mm).
        10. Material: Kynar Aluminum: 0.063 in (1.60 mm).
        11. Material: Stainless steel. ASTM A 480
      1. Basis of Design: Gambler Downspouts as manufactured by B and B Sheet Metal.
         1. Downspout elbows.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Galvanized Steel 22 ga. ASTM A 653.
        2. Material: Galvanized Steel: 24 ga. ASTM A 653.
        3. Material: Copper: 16 oz per sq ft. ASTM B 370.
        4. Material: Copper: 20 oz per sq ft. ASTM B 370.
        5. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        6. Material: Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
        7. Material: Kynar Aluminum: 0.032 in (0.81 mm).
        8. Material: Kynar Aluminum: 0.040 in (1.02 mm).
        9. Material: Kynar Aluminum: 0.050 in (1.27 mm).
        10. Material: Kynar Aluminum: 0.063 in (1.60 mm).
        11. Material: Stainless steel.
      1. Basis of Design: Quintet Downspouts as manufactured by B and B Sheet Metal. Five sided design.
         1. Downspout elbows.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Galvanized Steel 22 ga. ASTM A 653.
        2. Material: Galvanized Steel: 24 ga. ASTM A 653.
        3. Material: Copper: 16 oz per sq ft. ASTM B 370.
        4. Material: Copper: 20 oz per sq ft. ASTM B 370.
        5. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        6. Material: Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
        7. Material: Kynar Aluminum: 0.032 in (0.81 mm).
        8. Material: Kynar Aluminum: 0.040 in (1.02 mm).
        9. Material: Kynar Aluminum: 0.050 in (1.27 mm).
        10. Material: Kynar Aluminum: 0.063 in (1.60 mm).
      1. Accessories: Straps for Leaders or Downspouts.

\*\* NOTE TO SPECIFIER \*\* Delete straps not required.

* + - * 1. Plain leader straps.
        2. Scarlet leader straps.
        3. Crimson leader straps.
        4. Fancy leader straps.
        5. Violet leader straps.
        6. Sienna leader straps.
        7. Topaz leader straps.
        8. Pine leader straps.
        9. Royal leader
        10. Emerald leader straps.

\*\* NOTE TO SPECIFIER \*\* Delete scuppers or eaves boxes not required.

* + 1. Scuppers or Eave Boxes: Scuppers are tubes used to carry water from a roof through a wall and then down through the side of a building. Sometimes they are used as an overflow, providing an alternate drain if the drain system should fail.

\*\* NOTE TO SPECIFIER \*\* Delete basis of design options not required.

* + - 1. Basis of Design: Box Tube Scupper as manufactured by B and B Sheet Metal.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
        2. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        3. Material: Mill Finish Aluminum: 0.032 in (0.81 mm).
      1. Basis of Design: Faucet Scupper as manufactured by B and B Sheet Metal.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
        2. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        3. Material: Kynar Aluminum: 0.032 in (0.81 mm).
        4. Material: Kynar Aluminum: 0.040 in (1.02 mm).
        5. Material: Mill Finish Aluminum: 0.032 in (0.81 mm).
        6. Material: Mill Finish Aluminum: 0.040 in (1.02 mm).
        7. Material: Mill Finish Aluminum: 0.050 in (1.27 mm).
        8. Material: Kynar Galvanized Steel: 22 ga
        9. Material: Kynar Galvanized Steel: 24 ga.
      1. Basis of Design: Leader Head Combo Scupper as manufactured by B and B Sheet Metal.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
        2. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        3. Material: Kynar Aluminum: 0.032 in (0.81 mm).
        4. Material: Kynar Aluminum: 0.040 in (1.02 mm).
        5. Material: Mill Finish Aluminum: 0.032 in (0.81 mm).
        6. Material: Mill Finish Aluminum: 0.040 in (1.02 mm).
        7. Material: Mill Finish Aluminum: 0.050 in (1.27 mm).
        8. Material: Kynar Galvanized Steel: 22 ga
        9. Material: Kynar Galvanized Steel: 24 ga.
      1. Basis of Design: Roof Flange Scupper as manufactured by B and B Sheet Metal.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
        2. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        3. Material: Kynar Aluminum: 0.032 in (0.81 mm).
        4. Material: Kynar Aluminum: 0.040 in (1.02 mm).
        5. Material: Mill Finish Aluminum: 0.032 in (0.81 mm).
        6. Material: Mill Finish Aluminum: 0.040 in (1.02 mm).
        7. Material: Mill Finish Aluminum: 0.050 in (1.27 mm).
        8. Material: Kynar Galvanized Steel: 22 ga
        9. Material: Kynar Galvanized Steel: 24 ga.

\*\* NOTE TO SPECIFIER \*\* Delete heads or conductor heads paragraph if not required.

* + 1. Leader Heads or Conductor Heads: Used to direct and channel water from a through-wall scupper to a downspout/leader. Serves as a catch basin located at the top of some leaders/downspouts attaching the gutter sleeve to the conductor pipe.

\*\* NOTE TO SPECIFIER \*\* Delete basis of design options not required.

* + - 1. Basis of Design: April as manufactured by B and B Sheet Metal.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
        2. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        3. Material: Evergreen Copper: 16 oz per sq ft. ASTM B 370.
      1. Basis of Design: Evan as manufactured by B and B Sheet Metal.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
        2. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        3. Material: Evergreen Copper: 16 oz per sq ft. ASTM B 370.
      1. Basis of Design: Felicia as manufactured by B and B Sheet Metal.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
        2. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        3. Material: Evergreen Copper: 16 oz per sq ft. ASTM B 370.
      1. Basis of Design: Hail as manufactured by B and B Sheet Metal.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
        2. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        3. Material: Evergreen Copper: 16 oz per sq ft. ASTM B 370.
        4. Material: Copper: 16 oz per sq ft. ASTM B 370.
        5. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        6. Material: Evergreen Copper: 16 oz per sq ft. ASTM B 370.
      1. Basis of Design: Janice Joanna as manufactured by B and B Sheet Metal.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
        2. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        3. Material: Evergreen Copper: 16 oz per sq ft. ASTM B 370.
      1. Basis of Design: Joe V as manufactured by B and B Sheet Metal.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
        2. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        3. Material: Evergreen Copper: 16 oz per sq ft. ASTM B 370.
      1. Basis of Design: King Monf as manufactured by B and B Sheet Metal.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
        2. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        3. Material: Evergreen Copper: 16 oz per sq ft. ASTM B 370.
      1. Basis of Design: Oma as manufactured by B and B Sheet Metal.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
        2. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        3. Material: Evergreen Copper: 16 oz per sq ft. ASTM B 370.
      1. Basis of Design: Precious as manufactured by B and B Sheet Metal.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
        2. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        3. Material: Evergreen Copper: 16 oz per sq ft. ASTM B 370.
      1. Basis of Design: Robbie as manufactured by B and B Sheet Metal.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
        2. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        3. Material: Evergreen Copper: 16 oz per sq ft. ASTM B 370.
      1. Basis of Design: The Creator as manufactured by B and B Sheet Metal.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
        2. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        3. Material: Evergreen Copper: 16 oz per sq ft. ASTM B 370.
      1. Basis of Design: Uncle b as manufactured by B and B Sheet Metal.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
        2. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        3. Material: Evergreen Copper: 16 oz per sq ft. ASTM B 370.
      1. Basis of Design: Fancy as manufactured by B and B Sheet Metal.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
        2. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        3. Material: Evergreen Copper: 16 oz per sq ft. ASTM B 370.
        4. Material: Galvanized Steel: 26 ga. ASTM A 653.
      1. Basis of Design: Opa as manufactured by B and B Sheet Metal.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
        2. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        3. Material: Evergreen Copper: 16 oz per sq ft. ASTM B 370.
        4. Material: Galvanized Steel: 26 ga. ASTM A 653.
      1. Basis of Design: Plain as manufactured by B and B Sheet Metal.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
        2. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        3. Material: Evergreen Copper: 16 oz per sq ft. ASTM B 370.
        4. Material: Galvanized Steel: 26 ga. ASTM A 653.
        5. Material: Aluminum: 0.025 in (0.64 mm), baked enamel Brown
        6. Material: Aluminum: 0.025 in (0.64 mm), baked enamel high gloss white
        7. Material: Bronze: 0.025 in (0.64 mm), baked enamel white.

\*\* NOTE TO SPECIFIER \*\* Delete Flange tube paragraph if not required.

* + 1. Flange Tubes: Primarily used for draining purposes. Flange tubes can also be used with a sloped-flange to cover a vent-stack on a sloped roof.

\*\* NOTE TO SPECIFIER \*\* Delete basis of design paragraphs not required.

* + - 1. Basis of Design: Drop Flange Metal Tube: Soldered to provide a watertight seal.

\*\* NOTE TO SPECIFIER \*\* Custom sizes available upon request.

* + - * 1. Standard Sizes:

Flange: 10 x 10 in (254 x 254 mm)

Height: 12 in (305 mm).

\*\* NOTE TO SPECIFIER \*\* Delete tube diameter options not required.

Tube Diameter: 1-1/2 in (38 mm).

Tube Diameter: 2-1/2 in (64 mm).

Tube Diameter: 3-1/2 in (89 mm).

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
        2. Material: Copper: 20 oz per sq ft. ASTM B 370.
        3. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        4. Material: Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
        5. Material: Stainless Steel: 26 ga.
      1. Basis of Design: Flat Flange Metal Tube: Flat Roof Flange Tubes are used to effectively seal the penetration pipes that extend through the flat roof.

\*\* NOTE TO SPECIFIER \*\* Delete cap not required or delete both.

* + - * 1. Open cap.
        2. Cone cap.

\*\* NOTE TO SPECIFIER \*\* Custom sizes available upon request.

* + - * 1. Standard Sizes:

Flange: 18 x 18 in (457 x 457 mm)

Height: 18 in (457 mm).

Tube Diameter: 4-3/4 in (121 mm).

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Copper: 20 oz per sq ft. ASTM B 370.
        2. Material: Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
        3. Material: Stainless Steel: 26 ga.
      1. Basis of Design: Sloped Roof Metal Flange Tube:

\*\* NOTE TO SPECIFIER \*\* Delete pitch options not required.

* + - * 1. Pitch: 6/12
        2. Pitch: 10/12
        3. Pitch: 45 degrees
        4. Pitch: 30 degrees.
        5. Pitch: \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete cap not required or delete both.

* + - * 1. Open cap.
        2. Cone cap.

\*\* NOTE TO SPECIFIER \*\* Custom sizes available upon request.

* + - * 1. Standard Sizes:

Flange: 18 x 18 in (457 x 457 mm)

Height: 18 in (457 mm).

Tube Diameter: 4-3/4 in (121 mm).

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
        2. Material: Copper: 20 oz per sq ft. ASTM B 370.
        3. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
        4. Material: Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
        5. Material: Stainless Steel: 26 ga.

\*\* NOTE TO SPECIFIER \*\* Cupolas are a small dome-like structure affixed to and rising above the skyline of a rooftop. Delete article if not required.

* 1. CUPOLAS

\*\* NOTE TO SPECIFIER \*\* Delete basis of design options not required.

* + 1. Basis of Design: Style Type: Bellhop.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
      2. Material: Copper: 20 oz per sq ft. ASTM B 370.
      3. Material: Copper with Patina Finish: 16 oz per sq ft. ASTM B 370.
      4. Material: Copper with Patina Finish: 20 oz per sq ft. ASTM B 370.
      5. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
      6. Material: Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
    1. Basis of Design: Style Type: Ceasar.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
      2. Material: Copper: 20 oz per sq ft. ASTM B 370.
      3. Material: Copper with Patina Finish: 16 oz per sq ft. ASTM B 370.
      4. Material: Copper with Patina Finish: 20 oz per sq ft. ASTM B 370.
      5. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
      6. Material: Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
    1. Basis of Design: Style Type: Empire.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
      2. Material: Copper: 20 oz per sq ft. ASTM B 370.
      3. Material: Copper with Patina Finish: 16 oz per sq ft. ASTM B 370.
      4. Material: Copper with Patina Finish: 20 oz per sq ft. ASTM B 370.
      5. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
      6. Material: Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
    1. Basis of Design: Style Type: Fountain.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
      2. Material: Copper: 20 oz per sq ft. ASTM B 370.
      3. Material: Copper with Patina Finish: 16 oz per sq ft. ASTM B 370.
      4. Material: Copper with Patina Finish: 20 oz per sq ft. ASTM B 370.
      5. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
      6. Material: Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
    1. Basis of Design: Style Type: Lantern.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
      2. Material: Copper: 20 oz per sq ft. ASTM B 370.
      3. Material: Copper with Patina Finish: 16 oz per sq ft. ASTM B 370.
      4. Material: Copper with Patina Finish: 20 oz per sq ft. ASTM B 370.
      5. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
      6. Material: Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
    1. Basis of Design: Style Type: Palace.;

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
      2. Material: Copper: 20 oz per sq ft. ASTM B 370.
      3. Material: Copper with Patina Finish: 16 oz per sq ft. ASTM B 370.
      4. Material: Copper with Patina Finish: 20 oz per sq ft. ASTM B 370.
      5. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
      6. Material: Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
    1. Basis of Design: Style Type: Peccadillo.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
      2. Material: Copper: 20 oz per sq ft. ASTM B 370.
      3. Material: Copper with Patina Finish: 16 oz per sq ft. ASTM B 370.
      4. Material: Copper with Patina Finish: 20 oz per sq ft. ASTM B 370.
      5. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
      6. Material: Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
    1. Basis of Design: Style Type: Royal.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
      2. Material: Copper: 20 oz per sq ft. ASTM B 370.
      3. Material: Copper with Patina Finish: 16 oz per sq ft. ASTM B 370.
      4. Material: Copper with Patina Finish: 20 oz per sq ft. ASTM B 370.
      5. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
      6. Material: Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
    1. Basis of Design: Style Type: Spearhead.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
      2. Material: Copper: 20 oz per sq ft. ASTM B 370.
      3. Material: Copper with Patina Finish: 16 oz per sq ft. ASTM B 370.
      4. Material: Copper with Patina Finish: 20 oz per sq ft. ASTM B 370.
      5. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
      6. Material: Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
    1. Basis of Design: Style Type: Temple.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
      2. Material: Copper: 20 oz per sq ft. ASTM B 370.
      3. Material: Copper with Patina Finish: 16 oz per sq ft. ASTM B 370.
      4. Material: Copper with Patina Finish: 20 oz per sq ft. ASTM B 370.
      5. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
      6. Material: Lead Coated Copper: 20 oz per sq ft. ASTM B 370.
    1. Basis of Design: Style Type: Villa.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
      2. Material: Copper: 20 oz per sq ft. ASTM B 370.
      3. Material: Copper with Patina Finish: 16 oz per sq ft. ASTM B 370.
      4. Material: Copper with Patina Finish: 20 oz per sq ft. ASTM B 370.
      5. Material: Lead Coated Copper: 16 oz per sq ft. ASTM B 370.
      6. Material: Lead Coated Copper: 20 oz per sq ft. ASTM B 370.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required.

* 1. VENTILATORS

\*\* NOTE TO SPECIFIER \*\* Delete basis of design options if not required.

* + 1. Basis of Design: Goose Neck Ventilator as manufactured by B and B Sheet Metal.
       1. Screen.
       2. Soldered corners.

\*\* NOTE TO SPECIFIER \*\* Delete flange size options not required.

* + - 1. Flange Size: 8 x 8 in (120 x 230 mm).
      2. Flange Size: 12 x 12 in (305 x 305 mm).
      3. Flange Size: 16 x 16 in (406 x 406 mm).
      4. Flange Size: 24 x 24 in (610 x 610 mm).

\*\* NOTE TO SPECIFIER \*\* Delete height option not required.

* + - 1. Height: As designated on the Drawings.
      2. Height (in / mm): \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required

* + - 1. Material: Copper: 16 oz per sq ft. ASTM B 370.
      2. Material: Galvanized steel, 26 ga. ASTM A 653.
      3. Material: Stainless steel, 26 ga. ASTM A 480.
    1. Basis of Design: Eveco Ventilator as manufactured by B and B Sheet Metal.
       1. Cone cap.
       2. Throat.
       3. Flange with soldered corners.

\*\* NOTE TO SPECIFIER \*\* Delete diameter option not required.

* + - 1. Diameter: 4 in (102 mm).

\*\* NOTE TO SPECIFIER \*\* Delete height options not required.

* + - * 1. Height: 10 in (254 mm).
        2. Height (in / mm): \_\_\_\_\_\_.
      1. Diameter: 12 in (305 mm).

\*\* NOTE TO SPECIFIER \*\* Delete height options not required.

* + - * 1. Height: 10 in (254 mm).
        2. Height (in / mm): \_\_\_\_\_\_.
      1. Diameter: 14 in (356 mm).

\*\* NOTE TO SPECIFIER \*\* Delete height options not required.

* + - * 1. Height: 16 in (406 mm).
        2. Height (in / mm): \_\_\_\_\_\_.
      1. Diameter: 18 in (457 mm).

\*\* NOTE TO SPECIFIER \*\* Delete height options not required.

* + - * 1. Height: 16 in (406 mm).
        2. Height (in / mm): \_\_\_\_\_\_.
      1. Diameter: 20 in (508 mm).

\*\* NOTE TO SPECIFIER \*\* Delete height options not required.

* + - * 1. Height: 16 in (406 mm).
        2. Height (in / mm): \_\_\_\_\_\_.
      1. Diameter: 24 in (610 mm).

\*\* NOTE TO SPECIFIER \*\* Delete height options not required.

* + - * 1. Height: 16 in (406 mm).
        2. Height (in / mm): \_\_\_\_\_\_.
      1. Diameter: 30 in (762 mm).

\*\* NOTE TO SPECIFIER \*\* Delete height options not required.

* + - * 1. Height: 16 in (406 mm).
        2. Height (in / mm): \_\_\_\_\_\_.
      1. Diameter: 36 in (914 mm).

\*\* NOTE TO SPECIFIER \*\* Delete height options not required.

* + - * 1. Height: 16 in (406 mm).
        2. Height (in / mm): \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - 1. Material: Copper: 16 oz per sq ft. ASTM B 370
      2. Material: Galvanized steel, 26 ga. ASTM A 653
      3. Material: Stainless steel, 26 ga. ASTM A 480
    1. Basis of Design: Insul Ventilator as manufactured by B and B Sheet Metal.
       1. Cone cap
       2. Throat

\*\* NOTE TO SPECIFIER \*\* Delete flange size options not required.

* + - 1. Flange Size: 8 x 8 in (120 x 230 mm).
      2. Flange Size: 9 x 9 in (229 x 229 mm).
      3. Flange Size: 10 x 10 in (254 x 254 mm).
      4. Flange Size: 11 x 11 in (279 x 279 mm).
      5. Flange Size: 12 x 12 in (305 x 305 mm).
      6. Flange Size: 13 x 13 in (330 x 330 mm).
      7. Flange Size: 14 x 14 in (356 x 356 mm).
      8. Flange Size: 16 x 16 in (406 x 406 mm).

\*\* NOTE TO SPECIFIER \*\* Delete diameter options not required.

* + - 1. Diameter: As designated on the Drawings.
      2. Diameter (in /mm): \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete height options not required.

* + - 1. Height: As designated on the Drawings.
      2. Height (in / mm): \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - 1. Material: Copper: 16 oz per sq ft. ASTM B 370
      2. Material: Galvanized steel, 26 ga. ASTM A 653
      3. Material: Stainless steel, 26 ga. ASTM A 480
    1. Basis of Design: Syphon Ventilator as manufactured by B and B Sheet Metal.
       1. Cone cap
       2. Throat
       3. Flange with soldered corners.

\*\* NOTE TO SPECIFIER \*\* Delete diameter options not required.

* + - 1. Diameter: 4 in (102 mm)

\*\* NOTE TO SPECIFIER \*\* Delete height options not required.

* + - * 1. Height: 10 in (254 mm).
        2. Height (in / mm): \_\_\_\_\_\_.
      1. Diameter: 12 in (305 mm)

\*\* NOTE TO SPECIFIER \*\* Delete height options not required.

* + - * 1. Height: 10 in (254 mm).
        2. Height (in / mm): \_\_\_\_\_\_.
      1. Diameter: 14 in (356 mm)

\*\* NOTE TO SPECIFIER \*\* Delete height options not required.

* + - * 1. Height: 16 in (406 mm).
        2. Height (in / mm): \_\_\_\_\_\_.
      1. Diameter: 18 in (457 mm0

\*\* NOTE TO SPECIFIER \*\* Delete height options not required.

* + - * 1. Height: 16 in (406 mm).
        2. Height (in / mm): \_\_\_\_\_\_.
      1. Diameter: 20 in (508 mm).

\*\* NOTE TO SPECIFIER \*\* Delete height options not required.

* + - * 1. Height: 16 in (406 mm).
        2. Height (in / mm): \_\_\_\_\_\_.
      1. Diameter: 24 in (610 mm).

\*\* NOTE TO SPECIFIER \*\* Delete height options not required.

* + - * 1. Height: 16 in (406 mm).
        2. Height (in / mm): \_\_\_\_\_\_.
      1. Diameter: 30 in (762 mm).

\*\* NOTE TO SPECIFIER \*\* Delete height options not required.

* + - * 1. Height: 16 in (406 mm).
        2. Height (in / mm): \_\_\_\_\_\_.
      1. Diameter: 36 in (914 mm).

\*\* NOTE TO SPECIFIER \*\* Delete height options not required.

* + - * 1. Height: 16 in (406 mm).
        2. Height (in / mm): \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - 1. Material: Copper: 16 oz per sq ft. ASTM B 370
      2. Material: Galvanized steel, 26 ga. ASTM A 653
      3. Material: Stainless steel, 26 ga. ASTM A 480
    1. Basis of Design: Turbine Ventilator as manufactured by B and B Sheet Metal.
       1. Base.
       2. Flange with soldered corners.

\*\* NOTE TO SPECIFIER \*\* Delete diameter options not required.

* + - 1. Diameter: 4 in (102 mm)

\*\* NOTE TO SPECIFIER \*\* Delete height options not required.

* + - * 1. Height: 10 in (254 mm).
        2. Height (in / mm): \_\_\_\_\_\_.
      1. Diameter: 12 in (305 mm).

\*\* NOTE TO SPECIFIER \*\* Delete height options not required.

* + - * 1. Height: 10 in (254 mm).
        2. Height (in / mm): \_\_\_\_\_\_.
      1. Diameter: 14 in (356 mm).

\*\* NOTE TO SPECIFIER \*\* Delete height options not required.

* + - * 1. Height: 16 in (406 mm).
        2. Height (in / mm): \_\_\_\_\_\_.
      1. Diameter: 18 in (457 mm).

\*\* NOTE TO SPECIFIER \*\* Delete height options not required.

* + - * 1. Height: 16 in (406 mm).
        2. Height (in / mm): \_\_\_\_\_\_.
      1. Diameter: 20 in (508 mm).

\*\* NOTE TO SPECIFIER \*\* Delete height options not required.

* + - * 1. Height: 16 in (406 mm).
        2. Height (in / mm): \_\_\_\_\_\_.
      1. Diameter: 24 in (610 mm).

\*\* NOTE TO SPECIFIER \*\* Delete height options not required.

* + - * 1. Height: 16 in (406 mm).
        2. Height (in / mm): \_\_\_\_\_\_.
      1. Diameter: 30 in (762 mm).

\*\* NOTE TO SPECIFIER \*\* Delete height options not required.

* + - * 1. Height: 16 in (406 mm).
        2. Height (in / mm): \_\_\_\_\_\_.
      1. Diameter: 36 in (914 mm).

\*\* NOTE TO SPECIFIER \*\* Delete height options not required.

* + - * 1. Height: 16 in (406 mm).
        2. Height (in / mm): \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - 1. Material: Copper: 16 oz per sq ft. ASTM B 370
      2. Material: Galvanized steel, 26 ga. ASTM A 653
      3. Material: Stainless steel, 26 ga. ASTM A 480

\*\* NOTE TO SPECIFIER \*\* Delete article if not required.

* 1. ROOF HATCHES
     1. Basis of Design: Single-walled straight sided curb and single-leaf lid as manufactured by B and B Sheet Metal.
        1. Welded corner joints,
        2. Perimeter weather gasket between lid and curb.
        3. Perimeter curb cap
        4. Integral perimeter deck-mounting flange.
     2. Dimensions:

\*\* NOTE TO SPECIFIER \*\* Delete opening size option not required.

* + - 1. Opening Size: 30 x 36 in (750 x 900 mm)
      2. Opening Size: 36 x 36 in (900 x 900 mm)
      3. Opening Size (in / mm): \_\_\_\_\_\_

\*\* NOTE TO SPECIFIER \*\* Delete curb height option not required.

* + - 1. Curb Height: 12 inches (305 mm)
         1. Taper to roof slope so top of curb is level.
      2. Curb Height: (in / mm): \_\_\_\_\_\_.
         1. Taper to roof slope so top of curb is level.
    1. Loading:

\*\* NOTE TO SPECIFIER \*\* Delete external live load option not required.

* + - 1. External Live Load: 40 lbs per sq ft (1.9 kPa)
      2. External Live Load (lbs per sq ft / kPa): \_\_\_\_\_\_

\*\* NOTE TO SPECIFIER \*\* Delete internal live load option not required.

* + - 1. Internal Lift Load: 20-lbs per sq ft (0.95 kPa)
      2. Internal Lift Load (lbs per sq ft / kPa): \_\_\_\_\_\_
    1. Material:

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - 1. Galvanized sheet steel. Manufacturer's standard thickness.
      2. Aluminum-zinc alloy-coated sheet steel. Manufacturer's standard thickness.

\*\* NOTE TO SPECIFIER \*\* Delete finish option not required.

* + - * 1. Finish: As stated on Drawings or as determined by the Architect.
        2. Finish: \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete color not required.

* + - * 1. Color: As stated on Drawings or as determined by the Architect.
        2. Color: \_\_\_\_\_\_.
      1. Aluminum sheet. Manufacturer's standard thickness.

\*\* NOTE TO SPECIFIER \*\* Delete finish option not required.

* + - * 1. Finish: As stated on Drawings or as determined by the Architect.
        2. Finish: \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete color not required.

* + - * 1. Color: As stated on Drawings or as determined by the Architect.
        2. Color: \_\_\_\_\_\_.
      1. Stainless-steel sheet. Manufacturer's standard thickness.

\*\* NOTE TO SPECIFIER \*\* Delete finish option not required.

* + - * 1. Finish: Manufacturer's standard
        2. Finish: As stated on Drawings or as determined by the Architect.
        3. Finish: \_\_\_\_\_\_.
    1. Hardware:
       1. Lid locking device.
       2. Hold open arm with handle.
       3. Gas springs for opening and closing assist.
       4. Butt or pintle type hinge for lid.
       5. Padlock Hasp: Inside or outside.

END OF SECTION

* + - 1. EXECUTION
  1. EXAMINATION AND PREPARATION
     1. Examine substrates prior to installation. Do not proceed with installation until substrates have been properly prepared and deviations from manufacturer's recommended tolerances are corrected.
     2. If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions.
     3. Coordinate with installation of other products, materials and substrates.
  2. INSTALLATION
     1. Install in accordance with manufacturer's written instructions, approved submittals, and in proper relationship to adjacent construction.
  3. CLEANING AND PROTECTION
     1. Protect installed roof specialties from damage during installation and remainder of construction period, per manufacturer's written instructions.
     2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION