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This MANU-SPEC[®] utilizes the Construction Specifications Institute (CSI) *Project Resource Manual* (PRM), including *MasterFormat*[™], *SectionFormat*[™] and *PageFormat*[™]. A MANU-SPEC is a manufacturer-specific proprietary product specification using the proprietary method of specifying applicable to project specifications and master guide specifications. Optional text is indicated by brackets []; delete optional text in final copy of specification. Specifier Notes precede specification text; delete notes in final copy of specification. Trade/brand names with appropriate product model numbers, styles and types are used in Specifier Notes and in the specification text Article titled "Acceptable Material." Metric conversion, where used, is soft metric conversion.

This MANU-SPEC specifies masonry flashing and reglets as manufactured by Hohmann & Barnard, Inc. Revise MANU-SPEC section number and title below to suit project requirements, specification practices and section content. Refer to CSI MasterFormat for other section numbers and titles.

**SECTION 04 05 23
MASONRY ACCESSORIES**

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes: This Section specifies masonry flashing and reglets

Specifier Note: Revise Paragraph below to suit project requirements. Add section numbers and titles per CSI *MasterFormat* and specifier's practice.

- B. Related Requirements:

Specifier Note: Include in this Paragraph only those sections and documents that directly affect the work of this section. If a reader of this section could reasonably expect to find a product or component specified in this section, but it is actually specified elsewhere, then the related section number(s) should be listed in the Subparagraph below. Do not include Division 00 documents or Division 01 sections since it is assumed that all technical sections are related to all project Division 00 documents and Division 01 sections to some degree. Refer to other documents with caution since referencing them may cause them to be considered part of the Contract.

1. Section [_____].

1.02 REFERENCES

Specifier Note: Paragraph below may be omitted when specifying manufacturer's proprietary products and recommended installation. Retain References Paragraph when specifying products and installation by an industry reference standard. List retained standard(s) referenced in this section alphabetically. Indicate issuing authority name, acronym, standard designation and title. Establish policy for indicating edition date of standard referenced. Contract Conditions and Section 01 42 00 - References may establish the edition date of standards. This Paragraph does not require compliance with standard(s). It is a listing of all references used in this section. Only include here standards that are referenced in the body of the specification in PARTS 1, 2 and/or 3. Do not include references to building codes at any level.

- A. Reference Standards:

1. ASTM International (ASTM):
 - a. ASTM A167 Standard Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
 - b. ASTM A240 Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip

- for Pressure Vessels and for General Applications.
- c. ASTM A480 Standard Specification for General Requirements for Flat-Rolled Stainless and Heat-Resisting Steel Plate, Sheet, and Strip.
 - d. ASTM B370 Standard Specification for Copper Sheet and Strip for Building Construction.
 - e. ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers–Tension.
 - f. ASTM D471 Standard Test Method for Rubber Property–Effect of Liquids.
 - g. ASTM D573 Standard Test Method for Rubber–Deterioration in an Air Oven.
 - h. ASTM D624 Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers.
 - i. ASTM D638 Standard Test Method for Tensile Properties of Plastics.
 - j. ASTM D781 Method of Test for Puncture and Stiffness of Paperboard, Corrugated and Solid Fiberboard (Withdrawn 1984).
 - k. ASTM D790 Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
 - l. ASTM D882 Standard Test Method for Tensile Properties of Thin Plastic Sheeting.
 - m. ASTM D1004 Standard Test Method for Tear Resistance (Graves Tear) of Plastic Film and Sheeting.
 - n. ASTM D1140 Standard Test Methods for Amount of Material in Soils Finer than No. 200 (75-µm) Sieve.
 - o. ASTM D1781 Standard Test Method for Climbing Drum Peel for Adhesives.
 - p. ASTM D1938 Standard Test Method for Tear-Propagation Resistance (Trouser Tear) of Plastic Film and Thin Sheeting by a Single-Tear Method.
 - q. ASTM D2137 Standard Test Methods for Rubber Property-Brittleness Point of Flexible Polymers and Coated Fabrics.
 - r. ASTM D2240 Standard Test Method for Rubber Property–Durometer Hardness.
 - s. ASTM D2261 Standard Test Method for Tearing Strength of Fabrics by the Tongue (Single Rip) Procedure (Constant-Rate-of-Extension Tensile Testing Machine).
 - t. ASTM D3786 Standard Test Method for Bursting Strength of Textile Fabrics–Diaphragm Bursting Strength Tester Method.
 - u. ASTM D5433 Standard Test Method for Trapezoid Tearing Strength of Geotextiles. ASTM D5034 Standard Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test).
 - v. ASTM G151 Standard Practice for Exposing Nonmetallic Materials in Accelerated Test Devices that Use Laboratory Light Sources.
 - w. ASTM G154 Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials.

1.03 ADMINISTRATIVE REQUIREMENTS

- A. Coordination: Coordinate work of this Section with work of other trades for proper time and sequence to avoid construction delays. Comply with Section [01 31 00 - Project Management and Coordination].

Specifier Note: Add additional text to specify unusual or detailed coordination requirements affecting the work results of this Section.

- 1. [_____].

Specifier Note: Article below includes submittal of relevant data to be furnished by Contractor before, during or after construction. Coordinate this article with Architect’s and Contractor’s duties and responsibilities in Contract Conditions and Section 01 33 00 - Submittal Procedures.

1.04 ACTION SUBMITTALS

- A. General: Submit listed submittals in accordance with Contract Conditions and Section [01 33 00 - Submittal Procedures].
- B. Product Data: Submit specified products as follows:

1. Manufacturer's product data, including manufacturer's SPEC-DATA product sheet.
2. Catalog pages illustrating products to be incorporated into project.
3. Material Safety Data Sheets (MSDS).

Specifier Note: Samples are full size actual products intended to illustrate the products to be incorporated into the project. Sample submittals are commonly necessary for such characteristics as color, texture and other appearance issues.

C. Samples: Submit as follows:

1. 6 inches (152 mm) in length, of each type of [flashing] and [reglet] specified.

1.05 INFORMATION SUBMITTALS

Specifier Note: Without repeating the test requirements specified in Division 01, specify submittal of test reports or evaluation service reports intended to document required tests.

- A. General: Submit listed submittals in accordance with Contract Conditions and Section [01 33 00 - Submittal Procedures].
- B. Test and Evaluation Reports:
 1. Certified test reports showing compliance with specified performance characteristics and physical properties.

Specifier Note: Specify submittals intended to document manufacturer installation, storage and other instructions.

- C. Manufacturer's Instructions: Submit manufacturer's storage and installation instructions.
- D. Source Quality Control: Submit documentation verifying that components and materials specified in this Section are from single manufacturer.

1.06 QUALITY ASSURANCE

- A. Qualifications:
 1. Manufacturer:
 - a. Having [5] years' experience manufacturing components similar to or exceeding requirements of project.
 - b. Having sufficient capacity to produce and deliver required materials without causing delay in work.
 - c. Capable of providing field service representation during construction.
 2. Installer: [Acceptable to the manufacturer] [and] [experienced in performing work of this section and has specialized in installation of work similar to that required for this project].

Specifier Note: Retain the following Paragraph when certification related to sustainability submittals is a project requirement.

- B. Sustainability Standards Certification: Provide certification for flashing materials certified by [certification organization's name] in accordance with [certification organization's standard].

1.07 DELIVERY, STORAGE & HANDLING

- A. Delivery and Acceptance Requirements:
 1. Deliver material in accordance with Section [01 61 00 - Common Product Requirements] and in accordance with manufacturer's written instructions.
 2. Deliver materials in manufacturer's original packaging with identification labels intact and in sizes to suit project.
- B. Storage and Handling Requirements:
 1. Store materials protected from exposure to harmful weather conditions and at temperatures recommended by manufacturer.
- C. Packaging Waste Management:

Specifier Note: The disposal of packaging waste into landfill sites demonstrates an inefficient use of natural resources and consumes valuable landfill space. Specifying appropriate packaging and construction waste management and disposal procedures may contribute to points required for USGBC's LEED® construction project certification.

Specifier Note: Include the following Subparagraphs to provide direction to the Contractor for the disposal of construction waste materials using environmentally responsible methodology.

1. Separate waste materials for [reuse] [and] [recycling] in accordance with Section [01 74 19 - Construction Waste Management and Disposal].

Specifier Note: USGBC's LEED® certification includes credits for the diversion of construction waste from landfill. Diversion can be tracked either by weight or by volume, but must be consistent for all materials. Manufacturer may reclaim packaging and delivery materials for recycling.

2. Remove packaging materials from site and dispose of at appropriate recycling facilities.
3. Collect and separate for disposal [paper] [plastic] [polystyrene] [corrugated cardboard] packaging material [in appropriate onsite bins] for recycling.
4. Fold metal and plastic banding. Flatten and place in designated area for recycling.

Specifier Note: Add additional Subparagraphs as needed, to include crates, padding and other packing materials that are typically associated with the specified products.

5. Remove:
 - a. [Pallets] from site [and return to supplier or manufacturer].
 - b. [_____].

Specifier Note: Coordinate Article below with Contract Conditions and with Section 01 78 36 - Warranties.

1.08 WARRANTY

- A. Warranty: Refer to Contract Conditions and Section [01 78 36 - Warranties] for project warranty provisions.
- B. Manufacturer's Warranty: Submit for Owner's acceptance manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and does not limit, other rights Owner may have under other Contract Documents.
 1. Warranty Term: [_____] commencing on date of substantial completion.

Specifier Note: Include statements specific to this Section that supplement or extend warranties contained in the Contract Conditions.

- C. Special Warranty:
 1. Warranty Term: [_____] commencing on date of substantial completion.

PART 2 PRODUCTS

Specifier Note: Retain Article below for proprietary method specification. Add product attributes, performance characteristics, material standards and descriptions as applicable. Use of such phrases as "or equal," "or approved equal" or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining "or equal" products.

2.01 FLASHING AND REGLETS

- A. Manufacturer: Hohmann & Barnard, Inc.
 1. Contact: 30 Rasons Court, Hauppauge, NY 11788-4206; Telephone: (800) 645-0616, (631) 234-0600; Fax: (631) 234-0683; E-mail: weanchor@h-b.com; website: www.h-b.com.

Specifier Note: Substitution procedures must either be in the Contract Conditions or in Section 01 25 00 - Substitution Procedures. Do not include substitution procedures here.

2. Single Source Responsibility: Provide components and materials specified in this section from a single manufacturer.
3. Substitution Limitations:
 - a. Substitutions: [In accordance with [Contract Conditions] [Section 01 25 00 - Substitution Procedures] [No substitutions permitted].

Specifier Note: Paragraph below should list obligations for compliance with specific code requirements particular to this section. General statements to comply with a particular code are typically addressed in Contract Conditions and Section 01 41 00 - Regulatory Requirements. Repetitive statements should be avoided.

4. Regulatory Requirements:
 - a. In accordance with Section [01 41 00 - Regulatory Requirements].
 - b. [_____].
5. Compatibility:
 - a. Ensure components and materials are compatible with specified accessories and adjacent materials.
- B. Copper-Flex: A composite membrane comprised of polyethylene film laminated to a copper sheet.
 1. Copper Weight: [2] [3] [5] [7] ounces.
 2. Width: [12 inches (305 mm)] [16 inches (406 mm)] [18 inches (457 mm)] [20 inches (508 mm)] [24 inches (610 mm)] [36 inches (914 mm)].
 3. Tensile Strength, ASTM D412: Not less than 67,000 psi (460 MPa).
 4. Elongation, ASTM D412: Not more than 15%.
 5. Graves Tear, ASTM D1004: Not more than the following:
 - a. MD: 27.4 pound-force (122 N).
 - b. TD: 22.4 pound-force (100 N).
 6. Tear Propagation, ASTM D1938: Not more than the following:
 - a. MD: 8.3 pound-force (37 N).
 - b. TD: 9.3 pound-force (41 N).
- C. Copper-Tuff: A polymer coating bonded to a 2 oz copper sheet with a fiberglass scrim between the polymer coating and the copper.
 1. Copper Weight: [2] [3] [5] [7] ounce.
 2. Width: [12 inches (305 mm)] [16 inches (406 mm)] [18 inches (457 mm)] [20 inches (508 mm)] [24 inches (610 mm)] [36 inches (914 mm)].
 3. Tensile Strength, ASTM D412: Not less than 137,000 psi (945 MPa).
 4. Elongation, ASTM D412: Not more than 3%.
 5. Graves Tear, ASTM D 1004: Not more than the following:
 - a. MD: 23.3 pound-force (104 N).
 - b. TD: 41.1 pound-force (183 N).
 6. Tear Propagation, ASTM D1938: Not more than the following:
 - a. MD: 4.3 pound-force (19 N).
 - b. TD: 5.2 pound-force (23 N).
- D. CR-Concrete Reglet: Rigid PVC, ASTM D638, ASTM D790, ASTM D1781 and ASTM D2240.
 1. Size: 0.75 inch (19 mm) deep x 8 feet (2.4 m) long.
- E. MFL-Metal Flashing:
 1. Material: [26 gauge Type 304 stainless steel to ASTM A167, ASTM A240 and ASTM A480] [16 ounce copper to ASTM B370] [12 ounce copper to ASTM B370] [Lead coated copper to ASTM B370].
- F. MR-Masonry Reglet: Rigid PVC to ASTM D638, ASTM D790, ASTM D1781 and ASTM D2240.
 1. Size: 8 feet x 5/8 inch x 1 1/4 inches (2.4 m x 15.9 mm x 31.8 mm).
- G. T1-Termination Bar: Type 304 stainless steel.
 1. Size: 1/8 inch x 1 inch x 8 feet (3.2 mm x 25.4 mm x 2.4 m).

- H. T2-Termination Bar: Type 304 stainless steel.
 - 1. Size: 1.5 inch (38 mm) x 8 feet (2.4 m).
- I. EPRA-MAX Thru-Wall Flashing: EPDM.
 - 1. Thickness: 40 mil (1 mm).
 - 2. Width: [12 inches (305 mm)] [16 inches (406 mm)] [18 inches (457 mm)] [20 inches (508 mm)] [24 inches (610 mm)] [36 inches (914 mm)].
 - 3. Tensile Strength, ASTM D412: Not less than 1305 psi (9 MPa).
 - 4. Elongation, ASTM D412: Not more than 300%.
 - 5. Tear Resistance, ASTM D624: Not less than 150 pound-force/inch (26.3 kN/m).
 - 6. Ozone Resistance, ASTM D1140: No cracks.
 - 7. Heat Aging, ASTM D573: Not more than 1205 psi (8.3 MPa).
 - 8. Brittleness Point, ASTM D2137; Minus 49 degrees F (minus 45 degrees C).
 - 9. Water Absorption, ASTM D471: Plus 8% to minus 2%.
- J. FLEX-FLASH EDGE: Copper to ASTM B 370 with peel-and-stick to ASTM D412, ASTM D624, ASTM D2240 and ASTM G154.
 - 1. Thickness: 40 mil (1 mm).
 - 2. Size: 3/8 inch - 1/2 inch (9.5 - 12.7 mm) drip edge.
- K. FLEX-FLASH Flashing:
 - 1. Thickness: 40 mil (1 mm).
 - 2. Width: [12 inches (305 mm)] [16 inches (406 mm)] [18 inches (457 mm)] [20 inches (508 mm)] [24 inches (610 mm)] [36 inches (914 mm)] [48 inch (1.2 m)] [54 inch (1.4 m)].
- L. H&B Asphalt Mastic: Asphalt based emulsion.
- M. H&B C-Coat Flashing: Asphalt coated copper.
 - 1. Width: [12 inches (305 mm)] [16 inches (406 mm)] [18 inches (457 mm)] [20 inches (508 mm)] [24 inches (610 mm)] [36 inches (914 mm)].
- N. H&B C-Fab Flashing: A sheet of soft-tempered copper, permanently coated and bonded between 2 layers of asphalt-saturated glass fabric.
 - 1. Copper, ASTM B370: [3] [5] [7] ounces.
 - 2. Width: [12 inches (305 mm)] [16 inches (406 mm)] [18 inches (457 mm)] [20 inches (508 mm)] [24 inches (610 mm)] [36 inches (914 mm)].
- O. H&B C-Kraft Duplex Flashing: A sheet of soft-tempered copper, permanently coated and bonded between layers of kraft paper.
 - 1. Copper, ASTM B370: [3] [5] [7] ounces.
 - 2. Width: [12 inches (305 mm)] [16 inches (406 mm)] [18 inches (457 mm)] [20 inches (508 mm)] [24 inches (610 mm)] [36 inches (914 mm)].
- P. TeXtroflash Flashing: Polyethylene sheeting with laminated clear adhesive.
 - 1. Thickness: 40 mil (1 mm).
 - 2. Width: [12 inches (305 mm)] [16 inches (406 mm)] [18 inches (457 mm)] [20 inches (508 mm)] [24 inches (610 mm)] [36 inches (914 mm)].
 - 3. Puncture Resistance Film, ASTM D781: 170 pounds (77 kg), minimum.
 - 4. Puncture Resistance Membrane, ASTM D781: 40 pounds (18 kg), minimum.
 - 5. Tensile Strength Membrane, ASTM D412: 1500 psi (10,342 kPa), minimum.
 - 6. Elongation of Rubberized Asphalt, ASTM D882: 400%, minimum.
- Q. TeXtroflash Green Flashing: A hot melt adhesive laminated to a polypropylene film with 45% recycled content.

1. Thickness: 40 mil (1 mm).
2. Width: [12 inches (305 mm)] [16 inches (406 mm)] [18 inches (457 mm)] [20 inches (508 mm)] [24 inches (610 mm)] [36 inches (914 mm)] [48 inches (1.2 m)] [54 inches (1.4 m)] 60 inches (1.5 m), 72 inches (1.8 m).
3. Grab Tensile Strength, ASTM D5034: Not less than the following:
 - a. Warp: 240 pound-force (1068 N).
 - b. Weft: 250 pound-force (1110 N).
4. Tongue Tear, ASTM D2261: Not more than the following:
 - a. Warp: 58 pound-force (258 N).
 - b. Weft: 60 pound-force (266 N).
5. Trapezoidal Tear, ASTM D4533: Not more than the following:
 - a. Warp: 42 pound-force (186 N).
 - b. Weft: 45 pound-force (200 N).
6. Mullen Burst, ASTM D3786: Not more than 500 psi (3449 kPa).
7. Accelerated UV Weathering, ASTM G151: Greater than 90% strength retention after 2000 hours exposure at 0.77 W per m² per nm.
8. Accelerated UV Weathering, ASTM G154: Greater than 90% strength retention after 1200 hours exposure at W per m² per nm.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verification of Conditions: Verify that conditions of substrates previously installed under other sections or contracts are acceptable for product installation in accordance with manufacturer's instructions prior to [flashing] and [reglet] installation.
 1. Inform [Owner] [Architect] [Consultant] of unacceptable conditions immediately upon discovery.
 2. Proceed with installation only after unacceptable conditions have been remedied [and after receipt of written approval from [Owner] [Architect] [Consultant]].
 3. [_____].

Specifier Note: Specify actions required to prepare the surface, area or site for incorporation of the section's primary products. Describe requirements for exposure or removal of existing assemblies, components, products or materials.

3.02 PREPARATION

Specifier Note: Specify preparatory work required prior to installation/application/erection of primary products.

- A. Surface Preparation: Prepare surface in accordance with manufacturer's written recommendations and coordinate with Section [01 71 00 - Examination and Preparation].
 1. [_____].

Specifier Note: Specify preparatory work, such as selective removal of existing work, required prior to execution of new work. Specify requirements for exposure or removal of existing assemblies, components, products or materials.

- B. Demolition/Removal:
 1. [_____].

3.03 INSTALLATION

- A. Coordinate installation of products in accordance with Section [01 73 19 - Installation].
- B. Coordinate [flashing] and [reglet] work with work of other trades for proper time and sequence to avoid construction delays.
- C. Install [flashing] and [reglets] in accordance with manufacturer's instructions.
- D. Accurately fit, align, securely fasten and install free from distortion or defects.

E. [_____].

Specifier Note: Specify how existing work is to be repaired, restored and cleaned.

3.04 [REPAIR] / [RESTORATION]

A. Coordinate [repair] [restoration] of [systems] [components] [products] in accordance with Section [01 73 13 - Application].

1. [_____].

3.05 CLEANING

A. Perform cleanup in accordance with Section [01 74 00 - Cleaning and Waste Management] and Section [01 74 13 - Progress Cleaning].

B. Upon completion, remove surplus materials, rubbish, tools and equipment in accordance with Section [01 74 23 - Final Cleaning].

Specifier Note: Specify special measures needed to minimize waste, collect recyclable waste and dispose of or recycle field-generated construction waste created during demolition, construction or final cleaning.

C. Waste Management:

1. Coordinate recycling of waste materials with Section [01 74 19 - Construction Waste Management and Disposal].

2. Collect recyclable waste and dispose of or recycle field generated construction waste created during demolition, construction or final cleaning.

3. Remove recycling containers from site.

4. [_____].

END OF SECTION