Hohmann & Barnard, Inc.

HOHMANN AND BARNARD
www.h-b.com

1. Product Name

Hohmann & Barnard Flashing and Reglets

- Copper-Flex™
- Copper-Tuff™ Thru-Wall Flashing
- CR - Concrete Reglet
- MFL - Metal Flashing
- MR - Masonry Reglet
- T1 - Termination Bar
- T2 - Termination Bar
- EPRA-MAX™ EPDM Thru-Wall Flashing
- FLEX-FLASH EDGE™
- FLEX-FLASH™ Flashing
- H&B Asphalt Mastic
- H&B C-Coat™ Flashing
- H&B C-Fab™ Flashing
- H&B C-Kraft Duplex™ Flashing
- TeXtroflash™ Flashing
- TeXtroflash™ Green Flashing

2. Manufacturer

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3. Product Description

H&B manufactures a complete line of flashing products and accessories to prevent water penetration or to direct the flow of water. Products include standard sheet flashings bent to custom sizes and shapes, prefabricated inside or outside corners, end dams, splice tape and reglets.

BASIC USE

Copper-Flex™

- A composite membrane comprised of polyethylene film laminated to a copper sheet for a superior flashing
- Suitable for thru-wall or surface mount usage and can serve as a drip edge
- Maintains flexibility in extreme hot or cold weather conditions
- Provides outstanding impact and tear resistance
- Highly resistant to oils
- Repels most chemicals

Copper-Tuff™ Thru-Wall Flashing

- A patented polymer coating bonded to a 2 oz copper sheet
- Includes a fiberglass scrim between the polymer coating and copper for outstanding puncture and tear resistance
- Can also serve as a drip edge
- Lightweight and flexible to conform to a range of surfaces
- Compatible with ACQ (Alkaline Copper Quaternary) lumber and other treatments for pressure-treated lumber

CR - Concrete Reglet

- Attaches easily to form for cast-in-place concrete applications
- Built-in faceplate keeps mortar out, but easily tears off before flashing installation
- Comprised of rigid PVC

MFL - Metal Flashing

- Various product styles are manufactured to dimensional requirements of the user
- Comprised of 26 gauge, Type 304 stainless steel
- 16 oz and 12 oz copper and lead-coated copper models are available by special order

MR - Masonry Reglet

- Embedded into mortar joint of masonry backup to accept flashing
- Built-in faceplate keeps mortar out as construction progresses and easily tears off before flashing installation
- Comprised of rigid PVC and fits into 3/8" (9.5 mm) mortar joints

T1 and T2 - Termination Bars

- Mechanically secure the flashing to backup
- Fabricated from Type 304 stainless steel
- 1/4" (6.4 mm) holes spaced 8" (203 mm) o.c.
- T2 is single-winged style to accept caulking; T1 is standard style
- Compatible with all H&B membrane and copper-laminate flashings
- Available with optional Foam-Tite Seal™, which seals voids between the termination bar and irregular surfaces of the substrate to protect against water penetration. Specify T2-FTS when ordering
- U.S. Pat. No. 6,945,000; other patents pending

EPRA-MAX™ EPDM Thru-Wall Flashing

- Comprised of EPDM, a synthetic rubber with increased durability for exposed roofing conditions
- Remains flexible to -49 degrees F (-45 degrees C) for year-round installation
- Drip plates are recommended to guide moisture to the building exterior
- No special contact adhesives are needed when using EPRA-MAX Adhesive Tape for seams, corners or end dams
- For adhesion to various substrates, use EPRA-MAX Adhesive Tape in conjunction with Epra-Max Spray Primer or T1 or T2 Termination Bars; optional Bonding Adhesive is also available

FLEX-FLASH EDGE™

- An Elvaloy-based peel-and-stick flashing that is both easy to use and economical
- Available with an optional integrated copper drip-edge, embedded in the flashing membrane, but not visible, to reduce oxidation concern
- Easily formed onsite to a lasting drip-edge when projecting beyond the face of the wall

FLEX-FLASH™ Flashing

- A tough, 40 mil (1 mm) thick, non-drooling product formulated with Elvaloy® Kee
- Provides excellent impact and tear resistance and resists oil, most chemicals and UV exposure
- Helps prevent moisture infiltration at sills, projections, recesses, intersections and mortar joints
- Available for thru-wall or surface-mount applications; for surfaces where additional adhesion is required, use Foam-Tak™ Hi-Performance Spray Adhesive and T1 or T2 Termination Bars; optional drip plates can also be used
- For maximum protection against moisture infiltration, specify the complete FLEX-FLASH Flashing System: FLEX-FLASH, Mortar Trap, Foam-Tite Seal Drip Plates and Termination Bar
- U.S Pat. No. 6,584,746, with other patents pending

H&B Asphalt Mastic

- A high grade, asphalt-based emulsion used to bond asphalt-coated flashing to construction surfaces
- Provides a strong, flexible waterproof barrier with excellent adhesion
- Allows for expansion or contraction caused by temperature fluctuations or building movement

H&B C-Coat™ Flashing

- A copper thru-wall flashing that combines the flexibility and toughness of copper with the waterproofing capabilities of an elastic asphalt compound coating

TABLE 1 PRODUCT DESCRIPTION

Model	Composition & Material	Sizes
Copper-Flex	Polyethylene film laminated to 2 oz, 3 oz, 5 oz, or 7 oz copper sheet	Widths: 12" (305 mm), 16" (406 mm), 18" (457 mm), 20" (508 mm), 24" (610 mm), 36" (914 mm) Length: 25' (7.6 m)
Copper-Tuff	Polymer coating bonded to 2 oz, 3 oz, 5 oz, or 7 oz copper sheet	Widths: 12" (305 mm), 16" (406 mm), 18" (457 mm), 20" (508 mm), 24" (610 mm), 36" (914 mm) Length: 25' (7.6 m)
CR - Concrete Reglet	Rigid polyvinyl chloride (PVC)	3/4" (19 mm) deep × 8' (2.4 m) long
MFL - Metal Flashing	26 gauge, Type 304 stainless steel	Custom sizes; 16 oz, 12 oz copper or lead coated copper available
MR - Masonry Reglet	Rigid polyvinyl chloride (PVC)	8' (2.4 m) × 5/8" (15.9 mm) × 1 1/4" (31.8 mm)
T1 - Termination Bar	Type 304 stainless steel	1/8" (3.2 mm) × 1" (25.4 mm) × 8' (2.4 m) long
T2 - Termination Bar	26 gauge, Type 304 stainless steel	1 1/2" (38 mm) × 8' (2.4 m) long
EPRA-MAX Thru-Wall Flashing	EPDM 40 mil (1 mm) thick	12" (305 mm), 16" (406 mm), 18" (457 mm), 20" (508 mm), 24" (610 mm), 36" (914 mm)
FLEX-FLASH EDGE	40 mil (1 mm) copper with Elvaloy Kee	3/8" - 1/2" (9.5 - 12.7 mm) drip-edge
FLEX-FLASH Flashing	Elvaloy Kee 40 mil (1 mm)	Widths: 12" (305 mm), 16" (406 mm), 18" (457 mm), 20" (508 mm), 24" (610 mm), 36" (914 mm), 48" (1.2 m), 54" (1.4 m)
H&B Asphalt Mastic	Asphaltic-based emulsion	5 gal (18.9 L) pail
H&B C-Coat Flashing,	Copper	25 lineal feet (7.6 m); widths: 12" (305 mm), 16" (406 mm), 18" (457 mm), 24" (610 mm), 36" (914 mm)
H&B C-Fab Flashing	Copper, 3 oz, 5 oz, 7 oz	Widths: 12" (305 mm), 16" (406 mm), 18" (457 mm), 20" (508 mm), 24" (610 mm), 32" (813 mm), 36" (914 mm) in rolls of 25 lineal feet (7.6 m)
H&B C-Kraft Duplex Flashing	Asphalt-bonded kraft	Widths: 12" (305 mm), 16" (406 mm), 18" (457 mm), 24" (610 mm), 36" (914 mm) furnished in rolls of 60 lineal feet (18.3 m)
TeXtroflash Flashing	40 mil (1 mm) cross-laminated polyethylene/rubberized-asphalt	12" (305 mm), 16" (406 mm), 18" (457 mm), 20" (508 mm), 24" (610 mm), 36" (914 mm)
TeXtroflash Green Flashing	40 mil (1 mm)	50' (15.2 m) rolls; widths: 12" (305 mm), 16" (406 mm), 18" (457 mm), 24" (610 mm), 36" (914 mm), 48" (1.2 m), 54" (1.4 m), 60" (1.5 m), 72" (1.8 m)

- The sheet copper is shielded from acids, alkalis and electrolysis that may be present in uncured mortar
- The asphalt coating is self-sealing in case of puncture
- Nonstandard sizes and configurations are available by special order

H&B C-Fab™ Flashing
- A sheet of soft-tempered copper, permanently coated and bonded between 2 layers of asphalt-saturated glass fabric
- The asphalt-saturated glass fabric protects the copper during shipment and adds a layer of waterproofing and chemical resistance
- The coarse texture of the fabric improves bonding to mortar
- Light, flexible and rigid enough to maintain its shape when formed by hand on the job
- Conforms to ASTM B370

H&B C-Kraft Duplex™ Flashing
- A sheet of soft-tempered copper, permanently coated and bonded between layers of kraft paper
- Uses the same copper sheet as H&B C-Fab Flashing
- Conforms to ASTM B370
- Nonstandard sizes and configurations are available by special order

TeXtroflash™ Flashing
- A 40 mil (1 mm) thick composite membrane with a proprietary adhesive, factory laminated to polyethylene sheeting
- Suitable for application to masonry, concrete, steel, gypsum and wood
- Available for thru-wall or surface-mount applications
- Resists tearing and sliding and provides dual-layered waterproofing protection
- UV resistant for up to 90 days
- A stainless steel H&B Drip Plate is required to effectively guide moisture to the exterior. A stainless steel termination bar is required for surface-mount applications

TeXtroflash™ Green Flashing
- A 40 mil (1 mm) thick composite membrane that acts as both air and vapor barrier when adhered to above-grade substrates
- Bonds to masonry, gypsum sheathing, concrete, steel and wood substrates
- Comprised of a hot melt adhesive laminated to a polypropylene film with 45% recycled content
- Includes a silicone release liner that prevents the material from sticking within the roll

COMPOSITION & MATERIALS, SIZES

See Table 1.

4. Technical Data

APPLICABLE STANDARDS

ASTM International (ASTM)
- ASTM A167 Standard Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip
- ASTM A240 Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications
- ASTM A480 Standard Specification for General Requirements for Flat-Rolled Stainless and Heat-Resisting Steel Plate, Sheet, and Strip
- ASTM B370 Standard Specification for Copper Sheet and Strip for Building Construction
- ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers-Tension
- ASTM D471 Standard Test Method for Rubber Property-Effect of Liquids

- ASTM A480 Standard Specification for General Requirements for Flat-Rolled Stainless and Heat-Resisting Steel Plate, Sheet, and Strip
- ASTM D573 Standard Test Method for Rubber - Deterioration in an Air Oven
- ASTM D624 Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers
- ASTM D638 Standard Test Method for Tensile Properties of Thin Plastic Sheeting
- ASTM D781 Method of Test for Puncture and Stiffness of Paperboard, Corrugated and Solid Fiberboard
- ASTM D790 Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials
- ASTM D882 Standard Test Method for Tensile Properties of Thin Plastic Sheeting
- ASTM D1004 Standard Test Method for Tear Resistance (Graves Tear) of Plastic Film and Sheeting
- ASTM D1140 Standard Test Methods for Amount of Material in Soils Finer than No. 200 (75-m) Sieve
- ASTM D1781 Standard Test Method for Climbing Drum Peel for Adhesives
- ASTM D1938 Standard Test Method for Tear-Propagation Resistance (Trouser Tear) of Plastic Film and Thin Sheeting by a Single-Tear Method
- ASTM D2137 Standard Test Methods for Rubber Property-Brittleness Point of Flexible Polymers and Coated Fabrics
- ASTM D2240 Standard Test Method for Rubber Property - Durometer Hardness
- ASTM D2261 Standard Test Method for Tearing Strength of Fabrics by the Tongue (Single Rip) Procedure (Constant-Rate-of-Extension Tensile Testing Machine)
- ASTM D3786 Standard Test Method for Bursting Strength of Textile Fabrics - Diaphragm Bursting Strength Tester Method
- ASTM D5034 Standard Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test)
- ASTM E96 Standard Test Methods for Water Vapor Transmission of Materials
- ASTM G151 Standard Practice for Exposing Nonmetallic Materials in Accelerated Test Devices that Use Laboratory Light Sources
- ASTM G154 Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials

PHYSICAL/TECHNICAL PROPERTIES

Detailed test reports are available from the manufacturer to qualified design professionals upon request.

Copper-Flex
- Tensile Strength, ASTM D412 - 67,000 psi (460 MPa)
- Elongation, ASTM D412 - 15%
- Graves Tear, ASTM D1004 - MD 27.4 lbf (122 N); TD 22.4 lbf (100 N)
- Tear Propagation, ASTM D1938 - MD 8.3 lbf (37 N); TD 9.3 lbf (41 N)

Copper-Tuff
- Tensile Strength, ASTM D412 - 137,000 psi (945 MPa)
- Elongation, ASTM D412 - 3%
- Graves Tear, ASTM D1004 - MD 23.3 lbf (104 N); TD 41.1 lbf (183 N)
- Tear Propagation, ASTM D1938 - MD 4.3 lbf (19 N); TD 5.2 lbf (23 N)

CR - Concrete Reglet
- PVC conforms to ASTM D1781, ASTM D2240, ASTM D638, ASTM D790

H&B C-Fab, H&B C-Kraft
- Copper sheeting for H&B copper laminates conforms to ASTM B370

MFL - Metal Flashing
- Type 304 stainless steel conforms to ASTM A240, ASTM A480, ASTM A167. Copper and lead-coated copper conform to ASTM B370

MR - Masonry Reglet
- PVC conforms to ASTM D1781, ASTM D2240, ASTM D638 and ASTM D790

EPRA-MAX
- Tensile Strength, ASTM D412 - 1305 psi (9 MPa)
- Elongation, ASTM D412 - 300%
- Tear Resistance, ASTM D624 - 150 lbf/in (26.3 kN/m)
- Ozone Resistance, ASTM D1140 - No cracks
- Heat Aging, ASTM D573 - 1205 psi (8.3 MPa)
- Brittleness Point, ASTM D2137 - -49 degrees F (-45 degrees C)
- Water Absorption, ASTM D471 - +8, -2%

Flex-Flash EDGE, Flex-Flash Flashing
- Conforms to ASTM D412, ASTM D2240, ASTM D624 and ASTM G154; copper for Flex-Flash EDGE conforms to ASTM B370

TeXtroflash Flashing
- Puncture resistance (film), ASTM D781 - 170 lb (77 kg)/min
- Puncture resistance (membrane), ASTM D781 - 40 lb (18 kg)/min
- Tensile strength (membrane), ASTM D412 1500 psi (10342 kPa)/min
- Elongation of rubberized asphalt, ASTM D882 - 400%/min

TeXtroflash Green
- Grab Tensile, ASTM D5034 - Warp 240 lbf (1068 N); Weft 250 lbf (1110 N)
- Tongue Tear, ASTM D2261 - Warp 58 lbf (258 N); Weft 60 lbf (266 N)
- Trapezoidal Tear - Warp 42 lbf (186 N); Weft 45 lbf (200 N)
- Mullen Burst, ASTM D3786 - 500 psi (3449 kPa)
- Accelerated UV Weathering, ASTM G151 - >90% strength retention after 2000 hours exposure @ 0.77 W/m^2/nm
- Accelerated UV Weathering, ASTM G154 - >90% strength retention after 1200 hours exposure @ 1.35 W/m^2/nm

ENVIRONMENTAL CONSIDERATIONS

Hohmann & Barnard, Inc., is committed to the research, development and manufacturing of environmentally friendly products.

TeXtroflash Green Flashing contains 45% recycled content and can contribute points toward LEED® certification in categories of Energy & Atmosphere (EA), Materials & Resources (MR) and Indoor Environmental Quality (EQ).

Hohmann & Barnard offers numerous anchor, reinforcement and flashing products for the construction of sustainable masonry structures. Wire reinforcements and masonry wire ties are manufactured of steel of 99% post-industrial recycled material; other products, such as Mortar Trap and Rebonded Rubber, are fabricated either entirely or substantially from recycled materials.

With 6 manufacturing facilities around the country, the 500 mile radius requirement for green credits is often satisfied. Hohmann & Barnard products are used within many well-known green projects.

5. Installation

PREPARATORY WORK

Deliver products in manufacturer's original, unopened, undamaged containers with identification labels intact. Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.

Verify that site conditions are acceptable for installation. Do not proceed with installation until unacceptable conditions are corrected.

METHODS

Complete installation recommendations are available from the manufacturer.

PRECAUTIONS

Since each construction project is unique, the appropriate use of application data and the selection of any product described herein must be determined by a qualified design professional, responsible for working within predetermined parameters of or establishing the specific requirements of the project.

BUILDING CODES

Current data on building code requirements and product compliance may be obtained from Hohmann & Barnard technical support specialists. Installation must comply with the requirements of all applicable local, state and national code jurisdictions.

6. Availability & Cost

AVAILABILITY

Hohmann & Barnard products are nationally distributed and supported.

COST

Contact Hohmann & Barnard, Inc., for cost information or visit the www.h-b.com website.

7. Warranty

Contact the manufacturer for complete information on product warranty conditions, duration and remedies. Hohmann & Barnard, Inc., makes no warranties, either expressed or implied, of correctness and fitness for use for any particular purpose. The recipient agrees that any use of product information and electronic files is at their own risk. In no event shall Hohmann & Barnard, Inc., be liable for direct, indirect or consequential damages as a result of the recipient use or reuse of product information or electronic files. Hohmann & Barnard, Inc., shall be held harmless against all damages, liabilities or costs, including reasonable attorney fees and defense costs, arising out of or resulting from use of product information or electronic files.

8. Maintenance

No specific maintenance is required for properly installed reglets and flashing products.

9. Technical Services

A staff of factory trained service personnel offers design assistance and technical support. For technical assistance, contact Hohmann & Barnard, Inc., or visit the website: www.h-b.com.

10. Filing Systems

- SmartBuilding Index
- MANU-SPEC®
- Additional product information is available from the manufacturer upon request.