Truss & Ladder Reinforcement

- #120 - #150 Truss / #220 - #250 Ladder
- #165 & #170 Adjustable Truss
- #265 & #270 Adjustable Ladder
- #180 / #280 Dub'I Loop-Lok™ Reinforcement
- #185 / #285 Grip-Lok™ Reinforcement
- Adjustable Wall Ties
- SH-Seismic Hook

Adjustable Anchor Systems for Rubble Stone

- Tie-2R, Tie-HVR-190V
- Tie-HVR-195V, Tie-HVR-195VB

Veneer Anchor Systems

- X-Seal® Anchor / X-Seal® Tape
- DW-10® HS
- 2-Seal Tie™ / Concrete Seal Tie™

High Strength Systems

- Mighty-Lok™
- HB-200-HS

Seismic Anchor Systems

- S.I.S. / Seismiclip®
- Byna-Lok® Wire Tie / Continuous Wire

Screws

Wall Ties And Anchors

- Seismic Veneer Anchors
- #303 SV, #345 SV, #364 SV & T-Lok Tie
- Channel-Tee Seismic Notch System
- HB-200, #303, #315, #344, #345 & #345-BT
- Vee-Byna Tie, #301W & #302W
- #359, #359-FP, #359FP-C & #359FH

Column And Beam Anchors

- #351, #352, #353, #353L, #354, #355L & #357

Gripstay Anchor Systems

- #360 - #362, #362-C, #362-CX & #363

Misc. Accessories

- Spyra-Lox®, RB & RB-Twin
- Slip-Set

Who ever said, it's not easy being green? just look for the ‘green dots’ throughout the catalog for info on our recycled products

Corr. Wall Tie, Mesh Wall Tie & Mortar Grout Screen
Control Joints, Weep Holes & Mortar Net
PTA Series Partition Top Anchors
Concrete Inserts
Repair & Restoration Anchors
#520, #521RA-B & #522RA
Helix Spiro-Ties

Stone Anchors & Accessories

Flashing Systems

- Flex-Flash®, Flex-Flash® EDGE & Accessories
- Copper-Tuff™
- Copper-Flex™
- Epra-Max™
- C-Fab™ & C-Kraft™ Duplex Flashings
- Asphalt Mastic
- Metal Flashings & Accessories
- Drip Plates & DP Corners
- Concrete & Masonry Reglet
- Termination Bar / Splice Tape

Residential

- Wrap-N-Seal™
- Top-Seal Tape™
- Mite-Out™
- Copper Termite Shield
- Trac-Seal™
- TextraFlash™ Liquid - Air & Vapor Barrier

IMPORTANT: Since each construction project is unique, the appropriate selection and use of any product contained herein must be determined by competent architects, engineers and other appropriate professionals who are familiar with the specific requirements of the project in question.

Sheet Steel Items

Materials:
- Plates and bars: ASTM A 36
- Sheets-cold rolled: ASTM A 366
- Sheets-hot rolled: ASTM A 569

Finishes:
- Mill Galvanized: ASTM A 653 Class G60, 0.6 oz. zinc coating / ft²
- Hot Dip Galvanized: ASTM A 153 Class B, 1.5 oz. zinc coating / ft²
- Stainless Steel: ASTM A 666, ASTM A 480, Type 304, 2B Finish

H&B recommends Type 304 SS/St for maximum corrosion protection.

Wire

- ASTM A 82 (tensile strength)

Finishes:
- Brite Basic: no coating
- Mill Galvanized: ASTM A 641, 0.1 oz. zinc coating / ft²
- Hot Dip Galvanized: ASTM A 153 Class B, 1.5 oz. ft²

Stainless Steel Type 304:

95% post industrial recycled material.

H&B manufactures steel wire products from a minimum of 95% post industrial recycled material.
**TRUSS Type**

<table>
<thead>
<tr>
<th>#</th>
<th>Description</th>
<th>Wall Type</th>
</tr>
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<tbody>
<tr>
<td>#120</td>
<td>Truss-Mesh</td>
<td>Single Wythe Wall</td>
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<tr>
<td>#130</td>
<td>Truss-Tri-Mesh</td>
<td>Composite Wall</td>
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<tr>
<td>#140</td>
<td>Truss-Twin-Mesh</td>
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</tr>
<tr>
<td>#150</td>
<td>Truss-Box-Mesh</td>
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**LADDER Type**

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<td>Ladder-Mesh</td>
<td>Single Wythe Wall</td>
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<tr>
<td>#230</td>
<td>Ladder-Tri-Mesh</td>
<td>Composite Wall</td>
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<td>#240</td>
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</tr>
<tr>
<td>#250</td>
<td>Ladder-Box-Mesh</td>
<td>Composite Wall</td>
</tr>
</tbody>
</table>

Hohmann & Barnard’s Lox-All® Truss-Mesh and Ladder-Mesh are continuous lengths of joint reinforcement that are embedded into the horizontal mortar joint of masonry walls. Joint reinforcement has long proven to be necessary for superior performance of masonry wall construction.

**Benefits:**
- Greatly reduces cracking that can arise from thermal stresses. This enhances resistance to water penetration, as cracks are controlled.
- Increases lateral flexural strength.
- Bonds exterior and interior masonry wythes together in composite or cavity walls. Also bonds masonry at intersecting walls and corners.
- Increases elasticity and performance of masonry walls under various stresses.

**Features:**
- Butt-welding of cross rods to longitudinal rods (not more than 16”o.c.). This construction enhances bonding capabilities, eliminates projection of cross rods beyond the specified width of reinforcement, and prevents excessive build up of wire in limited mortar joints.
- Continuous deformation along each longitudinal rod for superior bonding performance.

**Standard Sizes:**
- 4” wall - 16” wall. Other widths available on special request.

- (S) Standard:
  - 9 ga. side rods x 9 ga. cross rods

- (EH) Extra Heavy:
  - 3/16” side rods x 9 ga. cross rods

- (SHD) Super Heavy Duty:
  - 3/16” side rods x 3/16” cross rods

**Finishes:**
- Mill Galv, Hot Galv or Stainless Steel

H&B recommends Type 304 Stainless Steel for maximum protection against corrosion.
Now you can adapt any of the adjustable systems shown above for seismic zones by specifying the H&B SH-Seismic Hook. This hook is “swaged” (indented) in two places to accommodate either a 9 gauge or 3/16” continuous wire. As shown, a channel is formed that braces the continuous wire and holds it in place. Suitable for standard 3/8” joints. Specify “SH” Seismic Hook with any adjustable wire, such as #170-SH.

U.S. Pat. No. 6,789,365
Other Patents Pending

For material conformance, submittal sheets, CAD drawings and MSDS sheets see WWW.H-B.COM
#180-BL DUB’L LOOP-LOK™ TRUSS ●

with Byna-Lok® Wire Tie

Dub’l Loop-Lok Features:
100% protection against separation of wire tie from reinforcement. *(See ACI 530 Bldg. Code Sec. 6.2.2.5.5.3)*

Allows in-plane vertical and horizontal movement of masonry wythes while restraining tension and compression.

Loops welded shut to maintain allowable tolerance and system integrity.

Unlike horizontal eyelets, vertical loops will not clog with mortar as construction progresses.

Loop extends one direction only to allow simple placement of insulation. Slip on Loop-Lok™ Washer to mechanically lock insulation in place.

Byna-Lok Features: *(see additional info on page 12)*

Swage and mild pitch on legs of the Byna-Lok Wire Tie provide an integral track for the continuous joint reinforcement wire.

Economical. Add continuous wire to masonry walls at little additional cost.

Suitable for standard 3/8” mortar joint.

The use of continuous wire in the outer brick wythe is beneficial in providing protection against problems arising from thermal expansion and contraction (crack control). It also allows for a more uniform distribution of lateral forces. Suitable for Seismic Zones.

1. 3/16” BYNA-LOK WIRE TIE (STANDARD)
2. 9 GA. OR 3/16” CONTINUOUS WIRE
3. TRU-JOINT™ FEATURE (4-POINT FLUSH WELD FOR TRUSS, 3-POINT FOR LADDER)
4. 3/16” BOX BYNA-TIE (STANDARD)
5. SEISMICLIP®
6. LOOP-LOK™ WASHER (OPTIONAL)

#185 GRIP-LOK™ TRUSS

Features

Combines Dub’l Loop-Lok™ Truss reinforcement with interlocking Grip-Lok Plate. Plate accepts continuous joint reinforcing wire.

Loops welded shut to maintain allowable tolerance and system integrity.

 Allows in-plane vertical and horizontal movement of masonry wythes while restraining tension and compression.

Grip-Lok T-Head configured to allow simple engagement into Loop-Lok, yet disengagement is prevented.

Heavy-duty Grip-Lok Plate accepts 9 gauge or 3/16” diameter continuous horizontal wire.

New Tru-Joint™ feature to reduce wire buildup. *(See info above.)*

Also available:

#285 Grip-Lok™ Ladder
Tie-2R Anchor System

This anchor system for rubble stone walls with masonry backup allows the mason to place anchors where they are needed. The joint reinforcement has 9 ga. deformed side rods, a 3/16” dia. cross rod and a 1/4” dia. heavy duty side rod projecting into the cavity. To this rod the stone mason attaches HELICAL HOOK ANCHORS with an easy twist.

Anchor Type HS is for horizontal joints and Type HP for vertical joints. Thus, the mason can fit the ties to the wall rather than having to build the wall to fit the ties. In addition, rigid insulation is easily applied between the wythes.

**Finishes:** Hot Galv Stainless Steel

Tie-HVR-190V Anchor System

In this system, the backup is reinforced with truss type reinforcement. The mason then places the vertical rod into the cavity by hooking onto the extended truss cross rod. Rubble stone can then be tied easily to the backup using standard Vee Byna-Ties®. Horizontal mortar joints do not have to align.

**Tie-HVR-190V** is for filled cavity conditions.

Tie-HVR-195V Anchor System

Tie-HVR-195V is for use with cavity or insulated walls. The flexible masonry tie has a pre-drilled hole to accept a vertical J-Hook. This configuration prevents in-and-out movement of the masonry tie, while allowing maximum vertical adjustability. This allows the mason to place the tie wherever the horizontal mortar joint lies.

Available for any wall size. State block, insulation, cavity and rubble stone sizes when ordering. Ladder style also available (Product Tie-HVR-295V).

Tie-HVR-Series truss or ladder reinforcement availability:

- **(S) Standard:** 9 ga. side rods x 9 ga. cross rods
- **(EH) Extra Heavy:** 3/16” side rods x 9 ga. cross rods
- **(SHD) Super Heavy Duty:** 3/16” side rods x 3/16” cross rods

Projecting box portion (195V or 295V) available 9ga. or 3/16” dia.

**Finishes:** Hot Galv Stainless Steel

Tie-HVR-195VB Anchor System

Tie-HVR-195VB is ideal for use on concrete backup, or when masonry backup is already in place, and new veneer is being installed. The L-shaped plate is sized for any thickness of insulation, and has a slotted hole to accept the vertical J-Hook. The flexible masonry tie is the same as used with Tie-HVR-195V, as described above. State insulation, cavity and rubble stone sizes when ordering.

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H&B manufactures steel wire products from a minimum of 95% post industrial recycled material.

Stainless Steel recycled content see page 22

H&B recommends Type 304 Stainless Steel for maximum protection against corrosion.
**X-SEAL® ANCHOR**

The X-SEAL® Anchor is the next generation veneer anchor from H&B. The X-SEAL® Anchor improves upon the original DW-10-X® by moving the horizontal pronged legs in from each end, enabling the backplate portion of the anchor to effectively seal the wall-board/insulation. This helps to maintain the integrity of the vapor barrier and prevents the ingress of air and moisture through the sheathing. The pronged legs bridge the sheathing and abut the steel stud, affording independent, positive anchorage. Compression of the sheathing by positive loads is also prevented. The pronged legs are now also rib-stiffened and oriented closer to each other than on the original DW-10-X®, thus enhancing the compressive strength. Owners, architects and masons can be confident in the performance of an “X-SEALED” metal stud/veneer wall.

The X-SEAL® Anchor meets or exceeds requirements of the **Commonwealth of Massachusetts State Building Code** for air leakage and water penetration. Contact H&B’s technical dept. for test results.

**X-SEAL® TAPE**

Now manufactured from **recycled material**.

**Self-sealing** - Seals around shaft of screw and legs of X-SEAL® Anchor at the moment of penetration.

**Durable** - Resilient, will not crack or rot.

**Ease of installation** - Adhesive-backed 40-mil rolls 3’ x 50 ft. Apply to clean, dry surface.

For maximum performance and adhesion X-SEAL® TAPE has been designed to be applied in continuous lengths only.

Can also be used as an insulation joint tape, as shown below.

**Patents Pending**

X-Seal® Tape has replaced Textroseal.

**NEW FEATURE!**

**PATENTED LEG DESIGN ALLOWS BACKPLATE TO SEAL SHEATH-ING FROM AIR & MOISTURE INFILTRATION WHILE MAINTAINING INTEGRITY OF THE VAPOR BARRIER.**

**ANCHORS AND SCREWS ARE INSTALLED BEFORE THE FIRST BRICK IS LAID, IMPORTANT FOR ON-SITE VISUAL INSPECTION.**

**AVAILABLE IN LEG LENGTHS TO ACCOMMODATE 1/2” - 4” WALLBOARD/INSULATION, HOT DIP GALV. OR TYPE 304 ST/STEEL.**

**U.S. Pats. 6,925,768 & 6,941,717 Other Patents Pending**

**CAPABLE OF WITHSTANDING A 100# LOAD IN BOTH TENSION AND COMPRESSION WITHOUT DEFORMING OR DEVELOPING PLAY IN EXCESS OF 0.05”**

**100% PROTECTION AGAINST SEPARATION OF WIRE TIE FROM ANCHOR (See ACI-530-02 Sec. 6.2.2.5.5.3)**

**CAN BE INSTALLED ON LARGE 4’ X 8’ INSULATION BOARDS, REDUCING HORIZONTAL JOINT SEAMS BY TWO-THIRDS (FURTHER REDUCING POTENTIAL FOR AIR & MOISTURE INFILTRATION)**

**1. X-SEAL® ANCHOR**

**2. X-SEAL® TAPE**

**3. STEEL STUD**

**4. RIGID WALLBOARD**

**5. INSULATION**

**6. H&B SELF-DRILL / SELF-TAP SCREW**

**DW-10HS®**

DW-10HS® anchors have all the features of the X-SEAL® as shown, but without the pronged-leg design. They are primarily for use when there is no insulation and little potential for wallboard deterioration.

DW-10HS® is 6” long with 3-5/8” vertical adjustability and furnished with 1/4” dia. holes. Available 14 ga. or 12 ga. thick, Mill Galv, Hot Dip Galvanized or Type 304 Stainless Steel.
2-Seal Tie™ Veneer Anchor

2-SEAL TIE™

An innovative single screw veneer tie for metal stud construction. Fabricated from carbon steel with a premium quality organic polymer coating, the 2-Seal Tie™ has a dual-diameter barrel with factory-installed EPDM washers to seal both the face of the insulation and the air/vapor barrier. This is an improvement over single barrel types which only seal at the insulation and render the vapor barrier susceptible to air and moisture infiltration if not precisely installed (perfectly perpendicular to the stud).

The dual-barrel has an integrated #12 self-drilling screw, and is available for insulation from 5/8” - 4” thick. The projecting eyelet accepts a 3/16” x 3”, 4” or 5” 2-Seal Byna-Lok Wire Tie (see below) for the masonry veneer wall mortar joint. This wire tie is also adaptable for seismic zones with the simple insertion of 9 ga. or 3/16” diameter continuous wire into the integral track formed by the swaged, overlapping legs. Available Hot Galvanized or Type 304 Stainless Steel.

The 2-Seal Tie™ Anchor meets or exceeds requirements of the Commonwealth of Massachusetts State Building Code for air leakage and water penetration. Contact H&B’s technical department for test results.

CONCRETE SEAL TIE™

The Concrete Seal Tie accepts the 2-Seal Byna-Lok Wire Tie to tie the masonry veneer to the substrate. The #14 diameter screw portion has special alternating threads making it suitable for use with concrete, CMU or brick backup, and is provided with a single EPDM sealing washer. The special point affords easy installation into a pre-drilled hole.

Barrel portion available in 5/8”, 1”, 1-1/2”, 2”, 2-1/2”, 3” and 3-1/2” lengths to accommodate insulation. Available Hot Galvanized or Type 304 Stainless Steel.

2-Seal Byna-Lok Wire Tie

Suitable for seismic zones with the simple addition of 9 ga. or 3/16” continuous wire into the track formed by the swaged, overlapping legs.

Available 3/16” diameter x 3”, 4”or 5” long, Hot Galvanized or Type 304 Stainless Steel.

Manufactured from a minimum of 95% post industrial recycled material.

Sold only in conjunction with 2-Seal Tie™ or Concrete Seal Tie™.

Installation chuck adapter for both the 2-Seal Tie™ and Concrete Seal Tie™ sold separately.

For material conformance, submittal sheets, CAD drawings and MSDS sheets see WWW.H-B.COM

H&B recommends Type 304 Stainless Steel for maximum protection against corrosion.
MIGHTY-LOK™

The new Mighty-Lok™ adjustable joint reinforcement features super-heavy-duty eyelets and pintles for superior strength and performance. This is especially beneficial for today’s multi-wythe construction with extra-wide cavity walls or when mortar joints are not in close alignment. With H&B’s new Tru-Joint™ feature, the large diameter pintles are factory-flattened and serrated to allow masons to easily maintain a standard 3/8” joint thickness.

Features

Large diameter eyelets and pintles afford usage where high strength requirements are present and standard eyelets and pintles would fail (including extra-wide cavity conditions). Also designed for usage where standard eyelets and pintles would fail due to greater than normal misalignment of mortar joints between the 2 wythes.

Rounded eyelets engage pintles snugly in conformance with existing codes (less than 1/16” mechanical play). No oblong-shaped eyelets as found on other systems.

Pintles are flattened and serrated for superior bonding with mortar.

Available Truss style (#170-ML) or Ladder style (#270-ML).

Eyelets are 4-point welded to reinforcement (3-point weld for ladder style) and embedded deeper into the mortar joint than conventional butt-welded systems.

U.S. Patent No. 6,279,283

Other Patents Pending.

Please contact H&B’s technical department for further information.

HB-200-HS
High-Strength Veneer Anchor System

Now available for heavy-duty applications, our new HB-200-HS High-Strength Veneer Anchor System incorporates a 1/4” diameter pintle. This heavy-duty pintle is flattened and then serrated for superior bonding with mortar. Suitable for 3/8” mortar joints.

Ideal for usage when the offset of engagement between pintle and anchor is greater than 1-1/4”. Standard leg length will accommodate up to 2” offset while maintaining sufficient strength. Longer leg lengths are available on special order, subject to loading requirements. (Note: ACI 530 section 6.2 indicates maximum offset of 1-1/4” for standard 3/16” diameter pintle.)

Also ideal for wide cavity conditions, where a standard 3/16” pintle would not satisfy load requirements. (Note: ACI 530 section 6.2 indicates maximum allowable span of 4-1/2” for standard 3/16” diameter pintles.)

Please contact H&B’s technical department for further information.

U.S. Patent No. 6,279,283
New masonry veneer can be anchored to existing masonry, concrete or steel with the Seismiclip® Interlock System. Engagement into the Seismiclip® is afforded by using one of H&B’s masonry wire ties and continuous wire in conjunction with standard H&B anchors as shown below.

Horizontal Joint Reinforcement Wire and Masonry Tie are snapped into the Seismiclip® and surrounded by mortar. This allows all components to function integrally as a single unit.

The Seismiclip® is an extrusion of durable, impact-resistant, rigid P.V.C.. It features retaining ridges to ensure correct snap-in insertion of Vee Byna-Tie® and continuous wire with a multi-grooved base to bond mortar.

<table>
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<tr>
<th>Seismiclips</th>
<th>1</th>
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<td>3/16”</td>
<td>3/16”</td>
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<tr>
<td>#250</td>
<td>9GA</td>
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Can. Pat. No. 1,313,887
U.S. Pat. No. 4,875,319

Seismiclips® are sold only in conjunction with other compatible H&B products.

Various Anchor Applications

- DW-10HS® (w/ Vee-Byna Tie)
- #345-BT
- #359FH (w/ Vee-Byna Tie)
- #362 Gripstay Channel (w/ #363)
- #305 Dovetail Slot (w/ #315)

Self-Drilling Self-Tapping Screw

Standard Sizes: #10 or #12 x 1-1/2” - 5” long.
Optional pre-installed EPDM sealing washer available.

Finishes: Zinc Plated
Polymer Coated
Type 410 Stainless Steel

IMPORTANT: All system testing was done with H&B components. We can not be held responsible for system performance if all components are not manufactured by Hohmann & Barnard.

H&B Type 304 Stainless Steel Screw

Self-Drilling Self-Tapping

- Type 300 Series Stainless Steel shank for enduring corrosion protection
- Tough carbon steel point for easy drilling.
- EPDM sealing washer pre-installed.

Standard Sizes: #12 x 2” - 4” long.
New masonry veneer can be anchored to existing masonry, concrete or steel with the Byna-Lok® Wire Tie. Various H&B anchor systems can be fitted with the Byna-Lok® Wire Tie, affording easy and secure insertion of the continuous joint reinforcing wire. Masonry veneer walls are then reinforced in accordance with the principles stated below. H&B recommends Stainless Steel for maximum corrosion protection.

**U.S. Pats. 5,454,200 & 6,925,768**
Other Patents Pending

**Standard:** 3/16” dia. X 3”, 4”, 5”, 6”, 7” or 9” long.

**Finishes:** Hot Dip Galvanized
Stainless Steel

**Why specify continuous joint reinforcement wire?**

**Enhanced Performance**
The use of a continuous wire in masonry veneer walls is beneficial in providing additional protection against problems arising from thermal expansion and contraction. It also allows for a more uniform distribution of lateral forces.

**Seismic Zone Conformance**
This system conforms with requirements of the Uniform Building Code for seismic zones [Sec.3006(D)(1)]. The code requires anchored veneer walls to have a continuous wire embedded in the mortar joint. This wire is to be secured to the tie anchor, which is fastened to the supporting structure.

**Various Anchor Applications**

- **#315-BL**
  - Byna-Lok®
  - Flexible Dovetail

- **#305**
  - Dovetail Slot

- **#363-BL**
  - Byna-Lok®
  - Flexible Gripstay

- **#345-BL**
  - Byna-Lok®
  - Flexible Tie

- **#362**
  - Gripstay Channel

H&B manufactures steel wire products from a minimum of 95% post industrial recycled material.

For material conformance, submittal sheets, CAD drawings and MSDS sheets see WWW.H-B.COM

H&B recommends Type 304 Stainless Steel for maximum protection against corrosion.
H&B Gripstay, Dovetail and L-Shaped Anchors can be modified to comply with seismic codes, which call for continuous wire in the veneer to be an integral component of the anchor system. The Seismic Notch forms a seat to accommodate 9 gauge or 3/16" diameter continuous wire.

#303 SV Standard - 1-1/4" wide x 16 ga., 14 ga. or 12 ga. thick with a standard dovetail head. Made to order in any length.

#345 SV Standard - Same availability as above with 9/32" diameter hole. Made to order in any length.

#364 SV Standard - Same availability as above with a standard gripstay notch. Made to order in any length.

T-Lok Tie - 14 ga. or 12 ga. thick. Backplate portion made to accommodate 0" - 4" insulation thickness. Pintle portion available in 3", 4" or 5" long. Other sizes available upon request.

Configuration of masonry plate T-Head allows easy insertion into slot, while preventing future disengagement. T-Head also prevents tie from being installed beyond allowable eccentricity.

U.S. Pat. No. 5,816,008

Finishes: Mill Galv
Hot Galv
Stainless Steel

The Channel-Tee Seismic-Notch Anchor System
Ideal for use where unlimited vertical adjustability is preferred. The Continuous Channel is surface mounted to the back-up. The Seismic-Notch Anchor is then easily inserted into the channel anywhere along the vertical length to conveniently fit wherever the mortar joint lies. Continuous joint reinforcing wire is easily inserted into the seismic notches of each anchor.

- Thin 5/8" profile of channel is ideal for tight cavity conditions. Channel provided in 10' lengths.
- Holes drilled 12" on center in channel.
- Seismic-Notch Anchor available 16 ga. thick by 3", 4" or 5" long.
- Other sizes available upon request.
- All components available Mill Galv, Hot Galv or Stainless Steel

Also suitable for use on concrete or CMU

For material conformance, submittal sheets, CAD drawings and MSDS sheets see WWW.H-B.COM
Wall Ties and Anchors

**HB-200**
- Standard - 1" wide back x 1" deep x 22 ga., 18 ga. or 16 ga. thick by 10' long foam filled.
- Finishes: Mill Galv, Hot Galv, Stainless Steel

**#303**
- Standard - 1" wide x 16 ga., 14 ga. or 12 ga. thick by 3-1/2" or 5-1/2" long. Other lengths available upon request.
- Finishes: Mill Galv, Hot Galv, Stainless Steel

**#305**
- Standard - 1" wide back x 1" deep x 22 ga., 18 ga. or 16 ga. thick by 10' long foam filled.
- Finishes: Mill Galv, Hot Galv, Stainless Steel

**#315**
- Standard - Dovetail end is 1" wide x 14 ga. thick. Vee Byna-Tie® portion is 3/16" diameter x 3", 3-1/2", 4", 4-1/2", 5", 7" or 9" long. Other sizes available upon request.
- Finishes: Hot Galv or Stainless Steel

**#344**
- Made to order from 1-1/4" or 1-1/2" wide x 1/8" or 1/4" thick bar stock by any length. Standard bends are 2". Other sizes available upon request.
- Manufactured from 99% post industrial recycled material.
- Finishes: Plain Steel, Hot Galv, Stainless Steel

**#345**
- Standard - 1-1/4" or 2" wide x 16 ga., 14 ga. or 12 ga. thick; 2-1/2" to 8-1/2" long. Bend is 1-1/2" long with 5/16" hole. Other sizes available upon request.
- **#345-BT** Standard - Sheet steel is 3/4" wide x 12 ga. thick with 5/16" hole. Vee Byna-Tie® portion is 3/16" diameter x 3", 3-1/2", 4", 4-1/2", 5", 6" or 7" long. Other sizes available upon request.
- Finishes: Mill Galv, Hot Galv, Stainless Steel

For material conformance, submittal sheets, CAD drawings and MSDS sheets see WWW.H-B.COM

H&B recommends Type 304 Stainless Steel for maximum protection against corrosion.
Wall Ties and Anchors

**VB - Vee-Byna Tie**

- Standard - 3/16” or 1/4” diameter.
- Sizes: 3” x 3”, 3-1/2” x 3-1/2”, 4” x 4”, 4-1/2” x 4-1/2”, 5” x 5”, 6” x 6”, 7” x 7” or 7” x 9”. Other sizes available upon request.
- For use with H&B’s DW-10 Series Anchors, X-Seal Anchors (tying brick veneer to steel studs), or #359 Series Weld-On Ties (tying masonry walls to steel columns).
- **Finishes:** Mill Galv, Hot Galv, Stainless Steel

**#301W - 3/16” or 1/4” diameter x 12” long.** For use with #359 Weld-On Tie (anchoring masonry to structural column).

**#302W - Same availability as above with a 1” flat end for use with #359FH Weld-On Tie.**

**#359 & #359-C - Weld-On Ties**

- **#359** - 1/4” diameter x 8” long.
- **#359-C** - 1/4” diameter x 8” long with offsets 8” on center.
- **#359FP - 3/8” diameter x 9” long.** Exaggerated offset dimension (specify when ordering).
- **#359FP-C - 3/8” diameter x 8” long with offsets 16” on center.** Optional backplate (sold separately) restrains compressive loads.
- For use when there is a requirement for spray-on fire-proofing. The exaggerated offset dimension allows for projection beyond fireproofing for visibility and accessibility to the mason.
- **#359FH - 3/4” wide x 12 ga. thick x 6” long (4” vertical adjustability).** 1/4” holes provided for attachment to masonry.
- For use with #302W Column Web Tie or Vee-Byna-Tie®. The systems anchor masonry to the structural frame, while allowing vertical differential movements between steel and masonry.
- **Finishes:** Mill Galv, Hot Galv or Stainless Steel

**#301W - Column Web Tie**

**#302W - Column Web Tie**

**#359 & #359-C - Weld-On Ties**

- (Shown with optional backplate)

**#359FP & #359FP-C - Weld-On Ties**

- Deep offset for use with fire-proofing

**#359FH - Weld-On Ties**

H&B manufactures steel wire products from a minimum of 95% post-industrial recycled material. Stainless Steel recycled content see page 22

For material conformance, submittal sheets, CAD drawings and MSDS sheets see WWW.H-B.COM

H&B recommends Type 304 Stainless Steel for maximum protection against corrosion.
#351
Wire Column Tie

#352
Wire Column Tie

#351 - 3", 5", 7" or 9" long. Other lengths available upon request.
For anchoring masonry to structural column when masonry is parallel to column flange.

#352 - 8", 10", 12" or 14" long. Other lengths available upon request.
For anchoring masonry to structural column when masonry is perpendicular to column flange.

Standard: 3/16" or 1/4" diameter with 2" Bend and 2-1/2" Hook with 1/2" opening.
Finishes: Mill Galv, Hot Galv or Stainless Steel

#353
Column Anchor

#353L
Column Anchor

#353 Standard - 1-1/4" wide x 12 ga. thick. Made to order based on flange width and overall length. Other thicknesses (including 1/4" heavy duty) available upon request.
For anchoring masonry to structural column when masonry is perpendicular to column flange.

#353L Standard - Same as above. Made with a slotted hole to accept Positive Lok Bolt to mechanically engage both sides of the flange.
For anchoring masonry to the building frame while restraining both positive and negative wind load actions.

#354
Notched Column Anchor

#355L
Column Anchor

#354 Standard - 1-1/2" wide x 12 ga. thick. Notch is 1" long, beginning 1" from end. Made to order in any length. Other notch sizes available on special order.
For anchoring masonry to structural column when masonry is parallel to column flange.

#355L Standard - 1-1/4" wide x 12 ga. thick. Other thicknesses (including 1/4" heavy duty) available upon request. Made with a slotted hole to accept Positive Lok Rod.
For anchoring masonry to the building frame while restraining both positive and negative wind load actions.

#357
Beam Anchor

#357 Standard - 1-1/4" wide x 12 ga. thick. Other thicknesses (including 1/4" heavy duty) available upon request. Made to order in any length.
For anchoring masonry to structural beam when masonry is parallel to column flange.

Finishes: Mill Galv, Hot Galv or Stainless Steel

Heavy duty plate for column & beam anchors is post industrial recycled material.

Stainless Steel recycled content see page 22

For material conformance, submittal sheets, CAD drawings and MSDS sheets see WWW.H-B.COM

H&B recommends Type 304 Stainless Steel for maximum protection against corrosion.
#360 & #361 Gripstay Channels

- 7-1/2” long (5-1/2” vertical adjustability).
- Furnished with welded straps for embedment into block back-up.
- 6-1/4” long o.a., furnished with built-in end clips for attachment to masonry.
- #362-C - 5’ long, other lengths available in 7-1/2” increments.
- #362-CX - 5’ long, other lengths available in 7-1/2” increments. Made to order with welded legs to accommodate any thickness insulation / wallboard.
- Standard: 14 ga., 12 ga. or 11 ga. thick with 5/16” holes.
- Finishes: Mill Galv
- Hot Galv
- Stainless Steel
- U.S. Patent No. 5,063,722

#362 & #362-C Gripstay Channels

- (shown with optional Lok-Channel Clip)

#363 Flexible Gripstay Anchor

- Standard - Gripstay head is 14 ga. thick x 1-1/4” wide. Vee Byna-Tie® portion is 3/16” diameter x 3”, 3-1/2”, 4”, 4-1/2”, 5”, 5-1/2”, 6” or 7” long. Other sizes available upon request.
- Vee Byna-Tie® portion manufactured from post industrial recycled material.

#364 Corrugated Gripstay Anchor

- Standard - 16 ga., 14 ga. or 12 ga. thick x 1-1/4” wide by 2-1/2” to 8-1/2” long. Other sizes available upon request.

#365 Bent Gripstay Anchor

- Standard - Same as above. Bend is 1” long. Longer bends available upon request.
- Finishes: Mill Galv
- Hot Galv
- Stainless Steel

Gripstay Head fits any style H&B Gripstay Channel (tying masonry to steel columns, concrete, or existing walls). Allows generous vertical adjustability along slot of channel.

For material conformance, submittal sheets, CAD drawings and MSDS sheets see WWW.H-B.COM

H&B recommends Type 304 Stainless Steel for maximum protection against corrosion.
**Spyra-Lox®**

*Rebar Lap-Joint Tie*

- SL 4/5 - #4 or #5 rebars
- SL 6/7 - #6 or #7 rebars
- SL 8/9 - #8 or #9 rebars (#9 is 1-1/8" o.d. nominal, 1.27" actual)
- SL 11 - #11 rebars (1-1/4" o.d. nominal, 1.41" actual)

No tools. Eliminates cumbersome procedure of tying lap-joined rebars together in reinforced walls. Increases worker productivity. Reduces lifting-height of block over rebars. Flow-through design allows grout to uniformly encase rebars at overlap.

**Finish:** Mill Galv

**RB & RB-Twin**

*Rebar Positioners*

- RB - 9 ga. dia. wire for 6", 8" or 12" block.
  - For positioning rebars in center of block. The z-shaped wire bridges cell of block while bends rest on shell.

- RB-Twin - Same as above with double loops to hold 4 rebars.

**Finishes:** Mill Galv, Hot Galv or Stainless Steel

---

**Slip-Set Stabilizer**

Bonds masonry walls and restrains lateral movement while allowing expansion and control joints to perform as designed. Field bend to connect intersecting walls, or new walls to existing walls.

**Finishes:**
- Mill Galv
- Hot Galv
- Stainless Steel

**CWT**

*Corrugated Wall Tie*

- CWT Standard - 22 ga., 18 ga., or 16 ga. thick x 7/8" wide x 7" long. Other sizes available upon request.

**Finishes:**
- Mill Galv
- Hot Galv
- Stainless Steel

**MWT**

*Mesh Wall Tie*

- MWT Standard - 1/2" square x 16 ga. thick x 100’ rolls. Can be cut to other lengths upon request.
  - For bonding intersecting masonry walls. Conforms to ASTM A 185.

**Finishes:**
- Hot Galv
- Stainless Steel

**MGS**

*Mortar Grout Screen*

- MGS Standard - 1/4” square x 4", 6", 8", 10” or 12” wide x 100’ rolls. Monofilament screen is fabricated from high strength, non-corrosive polypropylene polymers.
  - Isolates flow of grout in designated areas requiring reinforced concrete block. Also allows for greater bonding of masonry anchor in hollow block construction.
For material conformance, submittal sheets, CAD drawings and MSDS sheets see WWW.H-B.COM
PTA Series Partition Top Anchors

PTA Series Partition Top Anchors have been developed to provide lateral shear resistance at the upper limit of masonry walls. They permit vertical deflection of the slab above, without transferring compressive loads to the masonry wall below. PTA Series Anchors are suitable for construction using steel or concrete. PTA Tube with expansion filler is placed over rod anchor, which has been attached to concrete or steel by any of the methods illustrated. The vertical joint is then filled with mortar, fully surrounding tube.

Other sizes available for heavy-duty applications. Contact H&B’s technical department.

PTA-364
Sizes: 12 ga. thick
Finish: Mill Galv
Hot Galv
Stainless Steel

PTA-420
Sizes: 12 ga. strap
(5/16" dia. holes), 3/8" rod
Finish: Mill Galv
Hot Galv
Stainless Steel

PTA-422
(no PTA Tube required)
Sizes: 12 ga. thick
available for 4"-12" block
Finish: Mill Galv
Hot Galv
Stainless Steel

PTA-RN
Sizes: 3/8" threaded rod
with beveled nut
Finish: Mill Galv

PTA-310
Sizes: 3/8" rod,
12 ga. dovetail head
Finish: Mill Galv
Hot Galv
Stainless Steel

PTA Tubes
Clear butyrate tubes with compressible polyethylene filler (for use with all PTA series anchors except PTA-422)

Typical Masonry Wall

Any H&B Gripstay Channel
Welded Connection
Bolted Connection
Welded Connection
Bolted Connection
H&B #305 Dovetail Slot
H&B #305 Dovetail Slot

For material conformance, submittal sheets, CAD drawings and MSDS sheets see WWW.H-B.COM

H&B recommends Type 304 Stainless Steel for maximum protection against corrosion.
**LW-340 & HW-340 Malleable Iron Wedge Inserts**

Wedge inserts are embedded into concrete slabs. Nail holes in the back of the insert allow easy nailing to forms. When the forms are stripped, the open face of the insert is flush with the concrete. The beveled head of the askew head bolt engages the internal wedge shape of the insert and produces an automatic tightening action when a load is placed on it.

Available Hot Dip Galvanized.

**Note:** LW-340 Long Wedge Insert is suitable for use at the bottom of the slab or when additional vertical adjustability is needed. HW-340 Standard Wedge Insert must be installed at least 1-1/2" from bottom of slab.

**380-D Malleable Iron Adjustable Insert**

The 380-D is a malleable iron insert with an integral track that allows 3" of adjustability. A square nut is installed prior to nailing the insert to the formwork. When the forms are stripped, the face of the insert is flush with the face of the concrete. The sliding nut can then accept machine bolts or threaded rods for installation of precast panels, overhead piping or mechanical conduits. (Overall depth of insert is 2-1/2".)

Available Plain or Hot Dip Galvanized.

### Performance Data

<table>
<thead>
<tr>
<th></th>
<th>Shear</th>
<th>Tension</th>
<th>Concrete Strength</th>
<th>Torque</th>
</tr>
</thead>
<tbody>
<tr>
<td>LW-340</td>
<td>17,305 lbs.</td>
<td>17,367 lbs.</td>
<td>4,125 psi</td>
<td>150 ft/lbs.</td>
</tr>
<tr>
<td>HW-340</td>
<td>16,650 lbs.</td>
<td>13,093 lbs.</td>
<td>4,125 psi</td>
<td>150 ft/lbs.</td>
</tr>
<tr>
<td>380-D</td>
<td>13,400 lbs.</td>
<td>7,112 lbs.</td>
<td>4,125 psi</td>
<td>150 ft/lbs.</td>
</tr>
</tbody>
</table>

All values listed are ultimate capacities in pounds which should be reduced by a minimum safety factor of three to determine the allowable working loads.

**Askew Head Bolt**

5/8" or 3/4" dia. x 2", 2-1/2", 3" or 4" long.

Available Plain, Stainless Steel or Zinc Plated. Hot Galv available on special order.

### Performance Data

<table>
<thead>
<tr>
<th></th>
<th>Bolt dia.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Steel</td>
<td>60,000 psi minimum Tensile Strength</td>
</tr>
<tr>
<td>Stainless Steel</td>
<td>70,000 psi minimum Tensile Strength</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Bolt dia.</th>
</tr>
</thead>
<tbody>
<tr>
<td>LW-340</td>
<td>3/4&quot; 2-3/8&quot; 1-3/16&quot; 5-1/2&quot; 3&quot; 3-1/2&quot; 7/8&quot;</td>
</tr>
<tr>
<td>HW-340</td>
<td>3/4&quot; 2-1/2&quot; 1-3/16&quot; 4&quot; 1-3/4&quot; 2&quot; 7/8&quot;</td>
</tr>
</tbody>
</table>
Repair & Restoration Anchors may be required because of:

- Buckling or cracking of facade due to building movements (inter-story drift, thermal movements, etc.)
- Failure of materials
- Absence of ties
- Corrosion of non-stainless steel ties
- Refacing of existing structure with new veneer

#520RA
Epoxied rod/screen tube. Chemically resecures veneer to concrete or masonry backup.

**Installation:**
Drill hole and blow clean. Mixing nozzle dispenses epoxy into screen tube. Insert tube into hole. When rod is inserted into tube, epoxy is displaced through screen, filling any voids in the masonry structure. When cured, epoxy forms an anchor connection that is capable of resisting positive and negative loads.

Available in 1/4" - 3/4" diameters. Lengths as required. Rod and screen tube furnished in Type 304 Stainless Steel.

#521RA-B
Expansion type. Mechanically resecures veneer to concrete or masonry backup.
Supplied with pre-installed O-ring to function as moisture drip.

**Installation:**
Drill hole through veneer into backup as required. With special 2-part tool, expand inner shield, then outer shield. Fill hole with mortar.

Available 7", 8" & 9" long. Type 304 Stainless Steel rod with brass expansion shields. Fits 1/2" diameter hole.

#522RA
Expansion/screw type. Mechanically resecures veneer to wood or metal stud backup. Supplied with pre-installed O-ring to function as moisture drip.

**Installation:**
Drill hole through veneer. With special tool, install threaded portion of anchor into wood stud, then expand outer shield into veneer. Fill hole with mortar.

Available 7" long. Type 304 Stainless Steel. Fits 1/2" diameter hole in veneer.
1. A pilot hole is drilled through the masonry and into the back-up material, to a predetermined depth, using a rotary percussion drill (3-jaw-chuck-type).

2. The Helix Spiro-Tie is loaded into the special insertion tool which is fitted to an electric hammer drill (SDS type).

Note:
Rotary percussion drilling usually achieves the best results. SDS hammer drilling may be required where masonry material is extremely hard or dense.
The SDS hammer drill is ALWAYS used with the insertion tool to set the Helix Spiro-Tie in place.

3. The tie is power driven into position until the outer end of the tie is automatically recessed into the face of the masonry by the insertion tool.

4. The entry hole is finished over with matching materials.

Performance Data

<table>
<thead>
<tr>
<th>Base Materials</th>
<th>Embedment</th>
<th>Tension (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete</td>
<td>2”</td>
<td>541 lbs.</td>
</tr>
<tr>
<td>CMU (C-90 Block)</td>
<td>1-1/2”</td>
<td>638 lbs.</td>
</tr>
<tr>
<td>Brick Veneer (Epoxied)</td>
<td>2”</td>
<td>2730 lbs.</td>
</tr>
</tbody>
</table>

**Installation Instructions**

1. A pilot hole is drilled through the masonry and into the back-up material, to a predetermined depth, using a rotary percussion drill (3-jaw-chuck-type).

2. The Helix Spiro-Tie is loaded into the special insertion tool which is fitted to an electric hammer drill (SDS type).

**Note:**
Rotary percussion drilling usually achieves the best results. SDS hammer drilling may be required where masonry material is extremely hard or dense.
The SDS hammer drill is ALWAYS used with the insertion tool to set the Helix Spiro-Tie in place.

3. The tie is power driven into position until the outer end of the tie is automatically recessed into the face of the masonry by the insertion tool.

4. The entry hole is finished over with matching materials.
H&B sources Stainless Steel from a wide variety of vendors. Per the International Stainless Steel Forum, Stainless Steel objects have an average of 60% recycled content.

For material conformance, submittal sheets, CAD drawings and MSDS sheets see WWW.H-B.COM
Moisture infiltration can occur at sills, projections, recesses, intersections and mortar joints. The solution begins with proper flashing. H&B’s Flex-Flash® is a 40-mil thick product formulated with Elvaloy® Kee. It does not drool and combines the best features of other types of flashing, making it a truly superior product.

- Extremely tough, with excellent impact and tear resistance
- Flexibility is maintained in all weather environments, even in extreme heat or cold
- Highly resistant to oils and will repel most chemicals
- Compatible with most silicone and urethane sealants
- Suitable for thru-wall or surface-mount applications
- Pre-formed seamless corners and end dams available upon request
- Not susceptible to degradation by UV

Typical “peel-and-stick” flashings have a black, rubberized-asphalt component that can “drool” or leach out to the exterior of the building in warm temperatures if not precisely installed. This can leave unsightly marks that are difficult to remove. Flex-Flash® has a pressure-sensitive, clear adhesive that will not drool when exposed to UV or heat.

Flex-Flash® may be used in thru-wall or surface-mount applications. For surface-mount applications, apply to clean, dry surface. For surfaces where additional adhesion may be required, use H&B Foam-Tak™ Hi-Performance Spray Adhesive. Termination Bars must also be used. Flex-Flash should be extended beyond the wall face and cut flush with the brick. Optional Drip Plates may be used to effectively guide moisture to the exterior.

U.S. Pat. No. 6,584,746
Other Patents Pending

For maximum protection against moisture infiltration, specify the complete Flex-Flash® Flashing System, comprised of Flex-Flash®, Mortar Net™ and H&B’s Foam-Tite Seal™ Drip Plates and Termination Bar.

Elvaloy is a registered trademark of the DuPont Company.

New Flex-Flash EDGE™

Flex-Flash™ is now available with an optional integrated copper drip-edge. Membrane flashing materials are typically too resilient to bend into a lasting drip edge when projecting beyond the face of the wall. H&B solves this problem by embedding a narrow copper strip into the edge of Flex-Flash flashing. Flex-Flash can then be easily formed on site into a typical 3/8” - 1/2” drip-edge that will endure.

Patents Pending
There are various locations in a wall system where the thru-wall flashing and a construction sealant are used together to form a weather-tight seal, i.e. relief angles, soft joints, door and window perimeters. H&B’s Flex-Flash® Flashing is compatible with numerous sealants. It has been tested for adhesion and compatibility by various sealant manufacturers. The listing below gives a selection of both silicones and urethanes that have been evaluated. In all cases, the sealant manufacturer’s application procedure should be followed and they recommend that field adhesion testing should be continued throughout all stages of the project.

### Sealant Compatibility Chart

<table>
<thead>
<tr>
<th>Company</th>
<th>Product</th>
<th>Primer Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Silicones</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dow Corning</td>
<td>790</td>
<td>1200 Prime Coat</td>
</tr>
<tr>
<td></td>
<td>791</td>
<td>1200 Prime Coat</td>
</tr>
<tr>
<td></td>
<td>795 (Dark colors only: Black, Charcoal, or Bronze)</td>
<td>1205 Prime Coat</td>
</tr>
<tr>
<td>GE Silicones</td>
<td>Silpruf®</td>
<td>SS4179</td>
</tr>
<tr>
<td>Pecora</td>
<td>890</td>
<td>P-120</td>
</tr>
<tr>
<td></td>
<td>895</td>
<td>P-120</td>
</tr>
<tr>
<td>Tremco</td>
<td>Spectrem 2</td>
<td>#10</td>
</tr>
</tbody>
</table>

| **Urethanes**    |                |                          |
| Syma            | Sikaflex-1A    | #260-205                 |
| Sonneborn       | Sonolastic NP1 | #733                     |
| Tremco          | Dymonic        | #6 or #17                 |

**NOTE:** When using with insulation, please verify the compatibility with the manufacturer.

Contact H&B for a copy of the Flex-Flash® Flashing Limited Warranty.

For material conformance, submittal sheets, CAD drawings and MSDS sheets see WWW.H-B.COM
H&B Copper-Tuff™ Copper Thru-Wall Flashing

Copper-Tuff’s patented super-strong polymer coating is bonded to a 2 oz. copper sheet for maximum performance at an economical price. A fiberglass scrim is embedded between this coating and copper for excellent puncture and tear resistance.

- 2 oz. has more than twice the tensile strength of typical 5 oz. copper fabric flashing.
- Compatible with ACQ and all other treatments for pressure-treated lumber.
- Lightweight and flexible; easily conforms to any surface.

Also available with 3, 5, or 7 oz. copper sheet
Widths available: 12”, 16”, 18”, 20”, 24” & 36” wide x 25’ long

<table>
<thead>
<tr>
<th>ASTM Reference</th>
<th>Test</th>
<th>C-Tuff 2 oz.</th>
<th>TYPICAL NON-ASPHALTIC FABRIC FLASHINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM D 412C</td>
<td>Tensile Strength</td>
<td>137,000 psi</td>
<td>Brand A 3 oz.</td>
</tr>
<tr>
<td></td>
<td>Elongation</td>
<td>3%</td>
<td>59,000</td>
</tr>
<tr>
<td>ASTM D 1004</td>
<td>Graves Tear</td>
<td>23.3 lbf.</td>
<td>3 oz. 44,300</td>
</tr>
<tr>
<td></td>
<td>(at max. load)</td>
<td>0.05”</td>
<td>5 oz. 36,300</td>
</tr>
<tr>
<td></td>
<td>TD (at max. load)</td>
<td>41.1 lbf.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.05”</td>
<td></td>
</tr>
<tr>
<td>ASTM D 1938</td>
<td>Tear Propagation (Trouser Tear)</td>
<td>4.3 lbf.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MD</td>
<td>5.2 lbf.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TD</td>
<td>255 lbf.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.56”</td>
<td></td>
</tr>
</tbody>
</table>

**“This stuff is Ruff-n-Tuff!”**

Asphalt-free composition compatible with a wide variety of sealants.

**Approved Sealants**
- Dow Corning 756 SMS Building Sealant
- Dow Corning 791 Silicone Weatherproofing Sealant

**U.S. Pat. No. 6,928,780**
Other Patents Pending

H&B Copper-Flex™

Copper-Flex™ combines the best features of our Flex-Flash® Flashing with 2 oz. copper sheet to create a superior flashing that can also serve as a drip edge. It has a pressure-sensitive, clear adhesive that will not drool when exposed to UV or heat.

Also available with 3, 5, or 7 oz. copper sheet
Widths available: 12”, 16”, 18”, 20”, 24” & 36” wide x 50’ long

- Extremely tough, with excellent impact and tear resistance
- Maintains flexibility in extreme heat or cold weather environments
- Highly resistant to oils and will repel most chemicals
- Suitable for thru-wall or surface-mount usage
- Not susceptible to UV degradation
- Asphalt-free composition compatible with a wide variety of sealants

**U.S. Pat. No. 6,945,000**
Other Patents Pending
H&B Epra-Max™ EPDM Thru-Wall Flashing

EPDM is a synthetic rubber that has been used extensively for decades in the roofing industry. Its durability under harsh, exposed roofing conditions renders it an ideal choice for use in more controlled applications, such as thru-wall flashing. Epra-Max™ remains flexible down to -49° F, making it an excellent product for year-round installation. No special contact adhesives are needed when using Epra-Max Adhesive Tape for seams, corners or end dams. For adhesion to various substrates, use the Adhesive Tape in conjunction with Epra-Max Spray Primer, or use H&B’s Termination Bars. Optional bonding adhesive is also available. Drip Plates are recommended to guide moisture to the building exterior.

- Excellent elongation performance, tear and puncture resistance.
- Not susceptible to decomposition due to UV or ozone exposure.
- High or low temperatures are not detrimental to EPDM performance.

40 mil thick x standard widths of 12", 16", 18", 20", 24" or 36”

H&B C-Fab™ Flashing
Copper Thru-Wall Flashing

C-Fab™ Flashing is a sheet of soft-tempered copper that is permanently coated and bonded between two layers of asphalt-saturated glass fabric. The asphalt-saturated glass fabric adds protection to the copper during shipment, and also adds another layer of waterproofing and chemical resistance. The coarse texture aids in the bonding with mortar.

C-Kraft™ Duplex uses the same sheet copper, but the end product is lighter weight and slightly less expensive, due to the use of kraft paper in lieu of glass fabric. The kraft paper is also asphalt-bonded to the copper on both sides.

Copper sheet used in the fabrication of copper laminates conforms to ASTM B 370 (110 Alloy).

H&B C-Kraft™ Duplex Flashing
Copper Thru-Wall Flashing

Products are available in 3, 5 or 7 oz. weight.
Widths available: 12", 16", 18", 20", 24", 32” and 36”

H&B’s Asphalt Mastic

H&B’s Asphalt Mastic is a high-grade, asphalt-based cement used to bond asphalt-coated flashing to construction surfaces. It provides a strong, flexible waterproof barrier with excellent adhesion. Asphalt Mastic allows for expansion or contraction caused by temperature fluctuations or building movement. It is furnished in 5 gallon pails.
H&B manufactures a variety of metal flashing products and accessories to suit numerous job conditions. Products include standard sheet flashings bent to custom sizes and shapes, prefabricated inside or outside corners, end dams, splice tape and reglets. Seen below are various product styles, each of which are manufactured per the dimensional requirements of the customer. Metal flashing products are manufactured from 26 ga. type 304 stainless steel and 16 or 12 oz. copper. (Lead-coated copper, terne-coated stainless steel or other gauges are available on special order.)

**MFL** can be formed according to job requirements. State dimensions when ordering. Comes standard with factory-formed, hemmed drip edge.

**STF** acts to bond in all directions. Can be manufactured for parapet/coping applications, or bent for relief angle applications. State dimensions when ordering.

**MFL Outside & Inside Corners**

Metal Flashing Outside and Inside Corners are custom-fabricated, pre-formed pieces with a smooth, hemmed drip edge. Outside corners have a continuous, uninterrupted drip edge for a smooth, non-jagged finish (important in maintaining the integrity, aesthetics and safety aspects of the flashing corner).

Compatible with **ST Splice Tape**.

H&B sources Stainless Steel from a wide variety of vendors. Per the International Stainless Steel Forum, Stainless Steel objects have an average of 60% recycled content.
Drip Plates

Our Standard Drip Plate, furnished with a smooth, factory-formed hemmed edge for installation safety and uniform appearance. Fabricated from Type 304 or Type 316 Stainless Steel. Also available in copper and lead-coated copper. **Standard DP Drip Plates** are compatible with all H&B flashing products.

**DP-LB** Same as above, for lip brick conditions.

**FTS** Optional **Foam-Tite Seal™** offers unique added protection against the ingress of water in cavity wall construction. It is a continuous 1/8” strip of factory-installed compressible foam to act as a bond-break and help prevent air and moisture infiltration.

**FTS-LB** Same as above, for lip brick conditions.

**FTSA** Adds our optional **Flash-Adhere™ Adhesive Strip** to the FTS Drip Plate (as described above). This adhesive strip (with tear-off release paper) is factory-installed on the top side of the drip plate to aid in the precise and permanent placement of the flashing.

**FTSA-LB** Same as above, for lip brick conditions.

For corner pieces, reference “inside” or “outside” with above product numbers.

**Drip Plate Corners**

**Drip Plate Inside and Outside Corners** are pre-formed pieces with a smooth, uninterrupted, hemmed drip edge to maintain the integrity of the flashing system. Available with Foam-Tite Seal™ and/or Flash-Adhere™ Adhesive strip.

**H&B sources Stainless Steel from a wide variety of vendors. Per the International Stainless Steel Forum, Stainless Steel objects have an average of 60% recycled content.**

*Flash-Adhere™ Adhesive Strip is ONLY suitable for use with Flex-Flash® or Copper-Flex™ Flashings.*
Reglets & Termination Bars

Concrete Reglet
Attaches easily to form for poured concrete conditions.
- 3/4" deep x 8' lengths.
- Made of rigid PVC.
- Built-in face piece keeps mortar out, yet easily tears off prior to installation of flashing.

Masonry Reglet
Embedded in mortar joint of masonry backup to accept flashing.
- Fits into 3/8" mortar joint.
- 8' lengths.
- 5/8" internal depth, 1-1/4" o.a. depth.
- Made of rigid PVC.
- Built-in face piece keeps mortar out, yet easily tears off prior to installation of flashing.

Termination Bars
Termination Bars are fabricated from type 304 stainless steel, with 1/4" holes spaced 8" on center. They are compatible with all H&B membrane and copper-laminate flashings. Available in two styles, Type T1 and T2. Both styles are available with optional Foam-Tite Seal™ to aid in inhibiting moisture infiltration. This factory-installed foam strip helps seal small voids occurring between the termination bar and any irregular surfaces of the substrate, while offering added protection against water penetration due to deterioration of the sealant.

U.S. Pats. No. 6,945,000
Patents Pending

Splice Tape
Splice Tape is a 4" wide x 50 ft. roll of H&B Flex-Flash®. It is adhesive-backed, reinforced for strength and easily cut to required lengths on site. Suitable for thru-wall or surface-mount applications.

U.S. Pat. No. 6,584,746
Other Patents Pending

H&B sources Stainless Steel from a wide variety of vendors. Per the International Stainless Steel Forum, Stainless Steel objects have an average of 60% recycled content.
Wrap-N-Seal™
Self-Adhering Window Wrap & Expansion Joint

Our patented “foam-flex” process allows optimal foam compression to maximize sealing properties. Renders window flanges impervious to air and moisture.

Foam forms a continuous seal around perimeter of flange and internally between frame and rough opening for “Wrap-N-Seal” protection.

UV-resistant foam will not deteriorate like typical thin films found on black rubberized-asphalt tapes.
Clear adhesive will not drool or stain like typical black rubberized-asphalt adhesives.
Specially formulated adhesive seals around screws, nails and staples.

Physical Properties Chart

<table>
<thead>
<tr>
<th>Property</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>CID-A-A-59136, para. 3.8</td>
</tr>
<tr>
<td>Density</td>
<td>ASTM D 3575 - Suffix W</td>
</tr>
<tr>
<td>Compressive Strength</td>
<td>ASTM D 3575 - Suffix D</td>
</tr>
<tr>
<td>Compressive Set</td>
<td>ASTM D 3575 - Suffix B</td>
</tr>
<tr>
<td>Flexibility</td>
<td>PPP-C 1752D, para. 4.3.3.3</td>
</tr>
<tr>
<td>Water Absorption</td>
<td>ASTM D 3575 - Suffix L</td>
</tr>
<tr>
<td>Constant Compressive</td>
<td>CID-A-A-59136, para. 3.10</td>
</tr>
<tr>
<td>Creep</td>
<td>UL1191</td>
</tr>
<tr>
<td>UL Listed</td>
<td>Fed. Std 101. Method 3005</td>
</tr>
<tr>
<td>Contact Corrosivity</td>
<td>ASTM E 283</td>
</tr>
<tr>
<td>Air Infiltration</td>
<td>ASTM E 331</td>
</tr>
<tr>
<td>Water Resistance</td>
<td>75 Pa (1.57 psf)</td>
</tr>
<tr>
<td>Structural Performance</td>
<td>150 Pa (3.00 psf)</td>
</tr>
<tr>
<td></td>
<td>10 positive cycles of 480 Pa (10 psi)</td>
</tr>
<tr>
<td></td>
<td>10 negative cycles of 480 Pa (10 psi)</td>
</tr>
<tr>
<td>Industry visually acceptable</td>
<td>1.7 pcf</td>
</tr>
<tr>
<td></td>
<td>4-12 psi</td>
</tr>
<tr>
<td>Maximum 25% at 24 hrs</td>
<td>No cracks, tears, separations</td>
</tr>
<tr>
<td>No greater than 1%</td>
<td>Clear adhesive will not drool or stain like typical black rubberized-asphalt adhesives.</td>
</tr>
<tr>
<td>No greater than 10% loss</td>
<td>Classified HF-2</td>
</tr>
<tr>
<td>No visible signs of corrosion</td>
<td>0.01 cfm/ft²</td>
</tr>
<tr>
<td>No leakage</td>
<td>No leakage</td>
</tr>
<tr>
<td>No damage</td>
<td>No damage</td>
</tr>
</tbody>
</table>

Wrap-N-Seal™
The Newest Way to Insulate & Seal-Out Air and Moisture Around Windows...

Patents Pending
Top-Seal Tape™
Over-Flange Tape

- 40-mil thickness, 4” x 100 ft. long rolls
- Adhesive-backed with removable release paper
- Ease of installation: apply to clean, dry surface
- Resists tearing and slicing
- Laps easily, just press at overlap.
- Self-sealing: seals around fasteners.
- 6 month UV exposure
- Durable: will not rot, crack or drool like typical rubberized-asphalt adhesives.

Puncture Resistance
ASTM D 751
16.5 lbf.

Tensile Strength
ASTM D 412C
511 psi

Elongation
53%

Water Absorption
ASTM D 570
24h/23°C
0.3%

Tear Strength
ASTM D 624C
176 pli

Physical Properties Chart

<table>
<thead>
<tr>
<th></th>
<th>Min.</th>
<th>Target</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basis Weight</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(T-410)</td>
<td>87 lbs</td>
<td>142 g/m²</td>
<td></td>
</tr>
<tr>
<td>Spunbond</td>
<td>50 lbs</td>
<td>55 lbs</td>
<td>60 lbs</td>
</tr>
<tr>
<td>Poly</td>
<td>30 lbs</td>
<td>32 lbs</td>
<td>34 lbs</td>
</tr>
<tr>
<td>Slide Angle</td>
<td>26°F</td>
<td>28°F</td>
<td>32°F</td>
</tr>
</tbody>
</table>

For maximum weatherproofing, use in conjunction with H&B’s Wrap-N-Seal™ window wrap.

Patents Pending

For material conformance, submittal sheets, CAD drawings and MSDS sheets see WWW.H-B.COM
Hohmann & Barnard’s Mite-Out™ Copper Termite Shield is a sheet of soft-tempered copper that is permanently coated on one side with a polyethylene membrane and Foam Sill Seal. Copper flashing has long been used in masonry construction due to its pliability and non-reaction to any alkalais or acids that may be found in mortar.

- Available in 8”, 10” & 12” wide x 50’ long rolls.
- Compatible with ACQ and all other treatments for pressure-treated lumber.
- Asphalt-free adhesive will not stain concrete, vinyl or wood.
- Compatible with all adhesives, caulks and sealants.
- Lightweight, flexible and easy to work with. Conforms to any surface.

Physical Properties Chart
Closed Cell Non-Cross-Linked Polyethylene Foam

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stock No. Foam</td>
<td>ASTM D 4819 Type II</td>
</tr>
<tr>
<td>Density</td>
<td>ASTM D 3575</td>
</tr>
<tr>
<td></td>
<td>Nominal 1.7 pcf</td>
</tr>
<tr>
<td>Color</td>
<td>Natural</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>ASTM D 3755</td>
</tr>
<tr>
<td>Machine Direction</td>
<td>41</td>
</tr>
<tr>
<td>Cross Direction</td>
<td>37</td>
</tr>
<tr>
<td>Elongation</td>
<td>ASTM D 3755</td>
</tr>
<tr>
<td>Machine Direction</td>
<td>210</td>
</tr>
<tr>
<td>Cross Direction</td>
<td>185</td>
</tr>
<tr>
<td>Compression Set (25%)</td>
<td>24.45 psi</td>
</tr>
<tr>
<td>Water Absorption</td>
<td>3% maximum</td>
</tr>
<tr>
<td>Working Temperature (F)</td>
<td>ASTM D 3575</td>
</tr>
<tr>
<td>Thermal Stability</td>
<td>8% ± shrinkage</td>
</tr>
<tr>
<td></td>
<td>24 hrs. @ 158°F± 3°F</td>
</tr>
<tr>
<td></td>
<td>2 hrs. cooling period @ 73.4°F± 3.6°F</td>
</tr>
</tbody>
</table>

Copper Foil

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alloy</td>
<td>110 (ASTM B 152)</td>
</tr>
<tr>
<td>Tensile</td>
<td>20.10 KG/MM2</td>
</tr>
<tr>
<td>Chemical Analysis</td>
<td>CU + AG% 99.92</td>
</tr>
<tr>
<td>Temper</td>
<td>Soft</td>
</tr>
</tbody>
</table>

Polyethylene Film

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target Gauge</td>
<td>4 MIL</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>Yield (MD) 3,335 psi</td>
</tr>
<tr>
<td></td>
<td>Yield (TD) 3,640 psi</td>
</tr>
<tr>
<td></td>
<td>Break (MD) 5,400 psi</td>
</tr>
<tr>
<td></td>
<td>Break (TD) 5,365 psi</td>
</tr>
<tr>
<td>Ultimate Elongation</td>
<td>710%</td>
</tr>
<tr>
<td>1% Secant Modulus</td>
<td>850%</td>
</tr>
<tr>
<td>Elmendorf Tear Strength</td>
<td>92,000 psi</td>
</tr>
<tr>
<td>Dart Impact Failure Wt.</td>
<td>101,000 psi</td>
</tr>
<tr>
<td>Static Coefficient of Friction</td>
<td>245 GF</td>
</tr>
<tr>
<td>Kinetic Coefficient of Friction</td>
<td>1,400 GF</td>
</tr>
</tbody>
</table>

For material conformance, submittal sheets, CAD drawings and MSDS sheets see [WWW.H-B.COM](http://WWW.H-B.COM)
**Copper Termite Shield™**

Hohmann & Barnard’s Copper Termite Shield is a sheet of soft-tempered copper that is permanently coated on one side with a polyethylene membrane and Foam Sill Seal. Copper flashing has long been used in masonry construction due to its pliability and non-reaction to any alkalais or acids that may be found in mortar.

- Available in 8", 10" & 12" wide x 50’ long rolls.
- Compatible with ACQ and all other treatments for pressure-treated lumber.
- Asphalt-free adhesive will not stain concrete, vinyl or wood.
- Compatible with all adhesives, caulks and sealants.
- Lightweight, flexible and easy to work with. Conforms to any surface.

**Physical Properties Chart**

**Polyethylene Film**

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</tr>
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<td>Dart Impact Failure Wt. (MD)</td>
<td>250 GF</td>
<td></td>
</tr>
<tr>
<td>Dart Impact Failure Wt. (TD)</td>
<td>.30 GF</td>
<td></td>
</tr>
<tr>
<td>Static Coefficient of Friction</td>
<td>28 GF</td>
<td></td>
</tr>
<tr>
<td>Kinetic Coefficient of Friction</td>
<td>250 GF</td>
<td></td>
</tr>
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**Copper Foil**

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For material conformances, submittal sheets, CAD drawings and MSDS sheets see WWW.H-B.COM
Trac-Seal™
Self-Adhering Roofing Underlayment

- 40 mil thickness, 36” x 66 ft. long rolls.
- Adhesive-backed with removable release paper.
- Provides dual-layered waterproofing protection.
- Resists tearing and slicing.
- Laps easily, just press at overlap.
- **Specially treated non-slip tracks for worker safety.**
- Self-sealing: seals around fasteners.
- 120-day UV exposure.
- Durable: will not rot, crack or drool like typical rubberized-asphalt adhesives.
- Can be installed in temperatures at or above 25° F.

**Patents Pending**

Manufactured from 45% post-industrial and/or post-consumer recycled material.
Hohmann & Barnard’s Textroflash Liquid™ is an excellent air & vapor barrier and also performs as a moisture barrier. It allows proper drainage in various types of wall systems and provides protection from the detrimental effects of air exfiltration and infiltration, such as energy loss, condensation, efflorescence, bacterial growth, mold, etc. More environmentally friendly than other spray-applied products, Textroflash™ Liquid is suitable for application to concrete, CMU or cast-in-place concrete. It can be spray-applied or brush/roller-applied. After curing (4-24 hrs. depending on ambient temperatures), Textroflash™ Liquid is a resilient, seam-less membrane with high elongation and water-resistant properties.

Why use Textroflash Liquid™?
Unique proprietary composition enables dual-usage as either a vapor-permeable or non-vapor-permeable air & vapor barrier. It is the only product which combines this benefit with all of the following features:
- VOC-Free* (complete regulation compliance) & HAPs-Free* (other brands contain up to 30% hazardous chemicals, which can leach into soil and groundwater around buildings; Textroflash™ Liquid is especially suitable for schools)
- User-friendly - ready to use (no lengthy training, as with products requiring on-site mixing)
- Reduces labor - Application rate is just 40 dry mils (other brands can require up to 100 dry mils and multiple coats)
- UV exposure up to 145 days (other brands average 75 days, when re-application may be required)

A ‘Greener’ Solution
When properly installed, Textroflash™ Liquid reduces energy usage, thus reducing fossil fuel consumption (which can contribute to the greenhouse effect). Its usage may contribute toward achievement of LEED standards for Optimizing Energy Performance.

VOC & HAPs FREE!

*Volatile Organic Compounds are converted into “ground level” ozone when combining with the nitrogen oxides from sunlight. Ground level ozone has been found to be a public health hazard. VOC’s can also pollute soil and groundwater if accidentally released from various industrial products. Hazardous Air Pollutants are pollutants that may cause cancer or other serious health effects and have adverse environmental and ecological effects. Both are coming under stricter limits and regulations in various states.
Hohmann & Barnard, Inc.

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weanchor@h-b.com

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Fort Worth, TX 817-625-9781
Chicago, IL    773-586-6700
Birmingham, AL 205-956-0046

Hohmann & Barnard, Inc. is concerned about the preservation of the environment. For further information regarding LEED certification or the recycled content of our products please contact us.

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