



**1. Product Name**

Seismic Masonry Anchors and Ties

- #303 SV - Seismic-Notch Dovetail Anchors
- #315-BL - Byna-Lok™ Flexible Dovetail Ties
- #315 - Flexible Dovetail Ties
- #345-BL - Byna-Lok™ Flexible Ties
- #345-BT - Flexible Ties
- #345-SV - Seismic-Notch Veneer Anchors
- #363-BL - Byna-Lok™ Flexible Gripstays
- #363 - Flexible Gripstay Anchors
- #364 SV - Seismic-Notch Gripstay Anchors
- HB-200 S.I.S.
- Byna-Lok™ Wire Ties
- DW-10HS®/Byna-Lok™
- DW-10HS® Seismicclip® Interlock System
- T-LOK TIES™
- X-SEAL™/Byna-Lok™
- X-SEAL™ S.I.S. Anchors
- 2-SEAL™ Ties
- 2-SEAL™ Concrete Ties

**2. Manufacturer**

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**3. Product Description**

BASIC USE

- #303 SV - Seismic-Notch Dovetail Anchors**
- Use for seismic code regulations that require continuous wire in masonry veneer to be an integral component of the anchor system
  - Fabricated with a Dovetail head for use with #305 Dovetail slots
  - Form a seat to accommodate 9 gauge or 3/16" (4.8 mm) diameter continuous wire
- #315-BL Byna-Lok™ Flexible Dovetail Ties**
- Use to anchor new masonry veneer to existing masonry, concrete or steel
  - Designed with a Dovetail head to fit #305 Dovetail slots
  - Work with Byna-Lok Wire Ties to secure a continuous joint reinforcing wire

- Protect against thermal expansion and contraction and allow more uniform distribution of lateral forces
- Provide exceptional surface engagement of the continuous wire and integral track, reducing the potential for incorrect placement or disengagement of the continuous wire

**#315 - Flexible Dovetail Ties**

- Fitted with a Vee Byna-Tie™ for use with the Seismicclip Interlock System
- Use with #305 Dovetail slots
- Horizontal joint reinforcing wire and Vee Byna-Tie are snapped into Seismicclip and covered with mortar, allowing wire, tie and anchor to function as a single unit attached to the backup
- Use with continuous wire in masonry walls to add protection against thermal expansion and contraction and to allow for a more uniform distribution of lateral forces

**#345-BL Byna-Lok™ Flexible Ties**

- Help anchor new masonry veneer to studs, existing masonry, concrete or steel
- Can be fitted to Hohmann & Barnard anchor systems for easy and secure insertion of the continuous joint reinforcing wire
- Conform with Uniform Building Code requirements for seismic zones
- Swage and mild pitch on legs of the Byna-Lok Wire Ties provide an integral track for the continuous joint reinforcing wire
- Standard head is 12 gauge

**#345-BT - Flexible Ties**

- Vee Byna-Tie triangles with wraparound metal straps
- Use to attach masonry to concrete or CMU backup with a flexible connection
- Fitted with a Vee Byna-Tie for use with the Seismicclip Interlock System
- Horizontal joint reinforcing wire and Vee Byna-Tie are snapped into Seismicclip and covered with mortar, allowing wire, tie and anchor to function as a single unit attached to the backup
- Add protection against problems arising from thermal expansion and contraction and allow a more uniform distribution of lateral forces

**#345-SV - Seismic-Notch Veneer Anchors**

- Comply with seismic codes requiring continuous wire to be an integral component of the anchor system in masonry veneer
- The Seismic Notch forms a seat to accommodate 9 gauge or 3/16" (4.8 mm) diameter continuous wire

**#363-BL Byna-Lok™ Flexible Gripstays**

- Allow new masonry veneer to be anchored to studs, existing masonry, concrete or steel
- Include a Gripstay head to fit any style Gripstay Channel
- Standard Gripstay head is 12 gauge; 14 gauge is available
- Comply with Uniform Building Code requirements for seismic zones
- Suitable for use with a variety of Hohmann & Barnard anchors

**#363 - Flexible Gripstay Anchors**

- Use with any Gripstay Channel
- Fitted with a Vee Byna-Tie for use with the Seismicclip Interlock System
- For systems using continuous wire, tie and anchors for more uniform distribution of lateral forces and protection against thermal expansion and contraction problems

**#364 SV - Seismic-Notch Gripstay Anchors**

- Form a seat to accommodate 9 gauge or 3/16" (4.8 mm) diameter continuous wire
- T-head fits any Hohmann & Barnard Gripstay Channel
- Comply with seismic codes, which call for continuous wire in the veneer to be an integral component of the anchor system

**HB-200 S.I.S.**

- An adjustable veneer anchor
- Includes an L-shaped plate section with ribs for added strength and 9/32" (7.1 mm) holes for connecting screws
- Eyelets allow pintle insertion of 1 1/4" (31.8 mm) maximum allowable eccentricity and are sized to prevent in and out movement beyond allowable tolerances
- Part of the optional Seismicclip® Interlock System, where horizontal joint reinforcing wire and pintle are snapped into Seismicclip and covered with mortar to allow wire, tie and anchor to function as a single unit attached to the backup
- Available with optional Seismicclip and Continuous Wire

**Byna-Lok™ Wire Ties**

- Compatible with various Hohmann & Barnard anchor systems to provide easy and secure insertion of the continuous joint reinforcing wire
- Swage and mild pitch on the Byna-Lok Wire Tie legs provide an integral track for continuous joint reinforcing wire
- Suitable for standard 3/8" (9.5 mm) mortar joint
- Provide exceptional surface engagement of the continuous wire and integral track



- Reduce potential for incorrect placement or disengagement of the continuous wire due to workmanship error

**DW-10HS/Byna-Lok™**

- Anchors masonry veneer to studs, existing masonry, concrete, steel or wood backup
- Use for areas with no insulation and little potential for wallboard deterioration
- For insulated walls, or when there is concern about eventual wallboard deterioration, use X-SEAL Anchors

**DW-10HS Seismicclip® Interlock System**

- Anchors brick veneer to metal stud, masonry, concrete or wood backup
- Use when there is no insulation and little potential for wallboard deterioration. If wallboard deterioration is a concern, use X-SEAL Anchors
- The Seismicclip Interlock System consists of horizontal joint reinforcing wire and Byna-Ties snapped into Seismicclip and covered with mortar. Wire, tie and anchor function as a single unit attached to the backup
- All anchors are furnished with 9/32" (7.1 mm) diameter holes

**T-LOK TIE™**

- An adjustable Veneer Anchor Assembly with a Seismic Notch to accept 9 gauge or 3/16" (4.8 mm) continuous wire in the face brick
- Allows easy insertion into slot, while preventing future disengagement
- T-head prevents tie from being installed beyond allowable eccentricity
- Seismic Notch allows insertion of 9 gauge or 3/16" (4.8 mm) diameter continuous horizontal wire
- For correct sizing, installer should state insulation thickness and cavity width when ordering

**X-SEAL™/Byna-Lok™**

- Adds a Byna-Lok Tie to the X-SEAL Veneer Anchor System
- Pronged legs of the X-SEAL Anchor bridge the sheathing and abut the steel stud, enabling the backplate portion of the anchor to effectively seal the wallboard or insulation
- Helps address possible long term deterioration of the insulation or wallboard. The pronged legs bridge the sheathing and abut the steel stud for independent, positive anchorage
- Helps maintain the integrity of the vapor barrier and prevents the ingress of air and moisture through the sheathing

**X-SEAL™ S.I.S. Anchors**

- Add a Seismicclip Interlock System to the X-SEAL Veneer Anchor System

**2-SEAL™ Ties**

- Single screw veneer ties for metal stud construction
- Fabricated of carbon steel with a premium quality organic polymer coating
- Includes dual diameter barrels with factory-installed EPDM washers to seal both the insulation face and the air/vapor barrier
- Includes a #12 screw within the dual diameter barrel
- Available for 5/8" - 4" (15.9 - 102 mm) wall board/insulation combination
- Adaptable for seismic zones with the addition of a continuous wire
- Swaged, overlapping legs of the wire tie form an integral track for the continuous wire

**2-SEAL™ Concrete Ties**

- Accepts the 2-SEAL Byna-Lok Wire Tie to connect masonry veneer to the substrate
- Suitable for use with concrete, CMU or brick backup
- Includes an EPDM sealing washer
- Easily installed into a predrilled hole
- Adaptable for seismic zones with the addition of a 9 gauge or 3/16" (4.8 mm) continuous wire
- Swaged, overlapping legs of the wire tie form an integral track for the continuous wire

**COMPOSITION, MATERIAL**

See Table 1.

**4. Technical Data**

**APPLICABLE STANDARDS**

**ASTM International (ASTM)**

- ASTM A82 Standard Specification for Steel Wire, Plain, for Concrete Reinforcement
- ASTM A153 Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware
- ASTM A167 Standard Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip
- ASTM A366 Standard Specification for Commercial Steel (CS) Sheet, Carbon (0.15 Maximum Percent) Cold-Rolled
- ASTM D510 Standard Specification for General Requirements for Wire Rods and Coarse Round Wire, Carbon Steel
- ASTM A580 Standard Specification for Stainless Steel Wire
- ASTM D638 Standard Test Method for Tensile Properties of Plastics

- ASTM D790 Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials
- ASTM D1781 Standard Test Method for Climbing Drum Peel for Adhesives
- ASTM D2240 Standard Test Method for Rubber Property—Durometer Hardness
- ASTM D3575 Standard Test Methods for Flexible Cellular Materials Made From Olefin Polymers
- ASTM D4819 Standard Specification for Flexible Cellular Materials Made From Polyolefin Plastics

**APPROVALS**

The X-SEAL Anchor meets or exceeds requirements of the Commonwealth of Massachusetts State Building Code for air leakage and water penetration.

**PHYSICAL/TECHNICAL PROPERTIES**

**Carbon Steel Wire**

- Cold drawn steel conforming to ASTM A82
- Tensile strength - 80,000 psi
- Yield point - 70,000 psi minimum
- Zinc coating is hot-dip galvanized after fabrication in accordance with ASTM A153

**Stainless Steel Wire**

- AISI (American Iron and Steel Institute) Type 304 stainless steel
- Conforms to ASTM A580
- AISI Type 316 is available by special order

**Carbon Steel Sheet Metal Anchors and Ties**

- Conform to ASTM A366
- Zinc coating is hot-dip galvanized after fabrication in accordance with ASTM A153

**Stainless Steel Sheet Metal Anchors and Ties**

- AISI (American Iron and Steel Institute) Type 304 stainless steel
- Conform to ASTM A167
- AISI Type 316 is available by special order

**Screws for 2-SEAL Ties**

- Conform to ASTM C954 (1000 hour polymer coating)
- Conform to ASTM A510

**ENVIRONMENTAL CONSIDERATIONS**

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

**5. Installation**

**PREPARATORY WORK**

Handle and store the product according to Hohmann & Barnard recommendations. Deliver products in the manufacturer's original, unopened, undamaged containers with identification labels intact. Store materials

TABLE 1 COMPOSITION, MATERIAL

Product	Composition, Material	Size
#303 SV Seismic-Notch Dovetail Anchor	Anchor - Stainless or carbon steel/zinc coating Wire - Stainless or carbon steel/zinc coating	14 gauge; 1" (25.4 mm) width Wire - 9 gauge or 3/16" (4.8 mm)
#315-BL - Byna-Lok Flexible Dovetail Tie	Anchor - Stainless or carbon steel/zinc coating; Dovetail head Wire - Stainless or carbon steel/zinc coating, Type 316 special order	Head - 14 or 12 gauge Byna-Lok - 3/16" (4.8 mm) diameter; 3" (76 mm), 4" (102 mm) or 5" (127 mm) Wire - 9 gauge or 3/16" (4.8 mm)
#315 - Flexible Dovetail Tie	Anchor - Stainless or carbon steel/zinc coating; Dovetail head Wire - Stainless or carbon steel/zinc coating, Type 316 special order Seismicclip - Impact resistant, rigid polyvinyl chloride	Head - 14 or 12 gauge Byna-Tie - 3/16" (4.8 mm) diameter; 3" - 5" (76 - 127 mm); other lengths or 1/4" (6.4 mm) diameter special order Wire for Seismicclip - 9 gauge or 3/16" (4.8 mm) diameter
#345-BL - Byna-Lok Flexible Tie	Anchor - Stainless or carbon steel/zinc coating; flexible head Wire - Stainless or carbon steel/zinc coating, Type 316 special order;	Head - 12 gauge Byna-Lok - 3/16" (4.8 mm) standard; 3" (76 mm), 4" (102 mm) or 5" (127 mm); other lengths special order Wire - 9 gauge or 3/16" (4.8 mm)
#345-BT - Flexible Tie	Anchor - Stainless or carbon steel/zinc coating; flexible head Wire - Stainless or carbon steel/zinc coating, Type 316 special order Seismicclip - Impact resistant, rigid polyvinyl chloride	Head - 12 gauge Byna-Tie - 3/16" (4.8 mm) diameter; 3" (76 mm), 4" (102 mm) or 5" (127 mm); other lengths or 1/4" (6.4 mm) diameter special order Wire - 9 gauge or 3/16" (4.8 mm) diameter
#345-SV - Seismic-Notch Veneer Anchor	Anchor - Stainless or carbon steel/zinc coating Wire - Stainless or carbon steel/zinc coating	1" (25.4 mm) width; 14 or 12 gauge thickness Wire - 9 gauge or 3/16" (4.8 mm)
#363-BL - Byna-Lok Flexible Gripstay	Anchor - Stainless or carbon steel/zinc coating; Gripstay head Wire - Stainless or carbon steel/zinc coating	Head - 14 gauge Byna-Lok - 3/16" (4.8 mm) diameter; 3" (76 mm), 4" (102 mm) or 5" (127 mm) Wire - 9 gauge or 3/16" (4.8 mm)
#363 - Flexible Gripstay Anchor	Anchor - Stainless or carbon steel/zinc coating; Gripstay head Wire - Stainless or carbon steel/zinc coating Seismicclip - Impact resistant, rigid polyvinyl chloride	Head - 14 gauge Byna-Tie - 3/16" (4.8 mm) diameter; 3" (76 mm), 4" (102 mm) or 5" (127 mm); other lengths or 1/4" (6.4 mm) diameter special order Wire - 9 gauge or 3/16" (4.8 mm) diameter
#364-SV - Seismic-Notch Gripstay Anchor	Anchor - Stainless or carbon steel/zinc coating; Gripstay head Wire - Stainless or carbon steel/zinc coating	Head - 14 gauge; 1 1/4" (32 mm) width Wire - 9 gauge or 3/16" diameter (4.8 mm)
HB-200 S.I.S.	Anchor - Stainless or carbon steel/zinc coating; backplate Wire - Stainless or carbon steel/zinc coating, Type 316 special order Seismicclip - Impact resistant, rigid polyvinyl chloride	14 or 12 gauge Pin lengths: 3" (76 mm), 4" (102 mm), 4 3/4" (121 mm) and special order
Byna-Lok Wire Ties	Wire - Stainless or carbon steel/zinc coating; Type 316 special order	Byna-Lok - 3/16" (4.8 mm) diameter; 3" (76 mm), 4" (102 mm), 5" (127 mm)
DW-10HS Anchors/Byna-Lok Wire Ties	Anchor - Stainless or carbon steel/zinc coating Wire - Stainless or carbon steel/zinc coating; Type 316 special order	14 or 12 gauge Byna-Lok - 3/16" (4.8 mm) diameter; 3" (76 mm), 4" (102 mm), 5" (127 mm)
DW-10HS Seismicclip Interlock System	Anchor - Stainless or carbon steel/zinc coating Wire - Stainless or carbon steel/zinc coating, Type 316 special order Seismicclip - Impact resistant, rigid polyvinyl chloride	14 or 12 gauge Byna-Tie - 3/16" (4.8 mm) diameter; 3" (76 mm), 4" (102 mm) or 5" (127 mm); other lengths or 1/4" (6.4 mm) diameter special order Wire - 9 gauge or 3/16" (4.8 mm) diameter
T-LOK TIE	Anchor - Stainless or carbon steel/zinc coating; T-Lok Tie backplate Wire - Stainless or carbon steel/zinc coating	12 or 14 gauge T-LOK Tie - 1" (25.4 mm), 1 1/2" (38 mm), 2" (51 mm), 2 1/2" (64 mm), 3" (76 mm), 3 1/2" (89 mm); Masonry Tie - 3" (76 mm), 4" (102 mm), 4 3/4" (121 mm); special order available Wire - 9 gauge or 3/16" (4.8 mm) diameter
X-SEAL/Byna-Lok	Anchor - Stainless or carbon steel/zinc coating Wire - Stainless or carbon steel/zinc coating, Type 316 special order	14 gauge Byna-Lok - 3/16" (4.8 mm) diameter; 3" (76 mm), 4" (102 mm), 5" (127 mm) Wire - 9 gauge or 3/16" (4.8 mm) diameter
X-SEAL S.I.S. Anchors	Anchor - Stainless or carbon steel/zinc coating Wire - Stainless or carbon steel/zinc coating, Type 316 special order Seismicclip - Impact resistant, rigid polyvinyl chloride	14 gauge Vee Byna Tie - 3/16" (4.8 mm) diameter; 3" (76 mm), 4" (102 mm), 5" (127 mm) Wire - 9 gauge or 3/16" (4.8 mm) diameter
2-SEAL Concrete Ties	Wire - Stainless or carbon steel/zinc coating; Type 316 special order Byna-Lok Tie/Concrete Seal Tie Barrel - Polymer coated or Type 304 stainless steel	Concrete Seal Tie - 5/8" (16 mm), 1" (25.4 mm), 1 1/2" (38 mm), 2" (51 mm), 2 1/2" (64 mm), 3" (76 mm), 3 1/2" (89 mm); Byna-Lok - 3/16" (4.8 mm) diameter; 3" (76 mm), 4" (102 mm) or 5" (127 mm)
2-SEAL Ties	Wire - Stainless or carbon steel/zinc coating; Type 316 special order 2-Seal Byna-Lok Tie/2-Seal Tie Barrel - Polymer coated or Type 304 stainless steel	2-Seal Tie - 5/8" (16 mm), 1" (25.4 mm), 1 1/2" (38 mm), 2" (51 mm), 2 1/2" (64 mm), 3" (76 mm), 3 1/2" (89 mm); includes insulation and/or wallboard total thickness Byna-Lok - 3/16" (4.8 mm) diameter; 3" (76 mm), 4" (102 mm) or 5" (127 mm)

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

Installation recommendations are available from the manufacturer.

#### PRECAUTIONS

Because each construction project is unique, appropriate selection of any product described herein must be by a qualified design professional, responsible for working within predetermined parameters of or establishing 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 authority having jurisdiction.

### 6. Availability & Cost

Hohmann & Barnard products are nationally distributed and supported. Contact manufacturer for local availability and cost information.

### 7. Warranty

Contact the manufacturer for complete information regarding 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 attorneys' 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 masonry anchor products.

### 9. Technical Services

Technical assistance, including more detailed information, product literature, test results, project lists and assistance in preparing project specification is available by contacting Hohmann & Barnard, Inc.

### 10. Filing Systems

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