

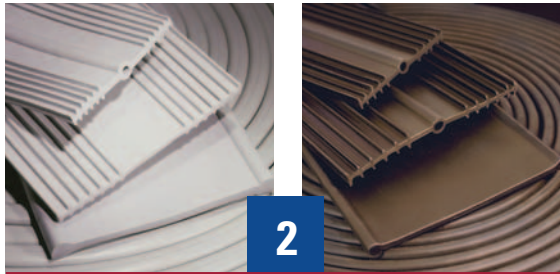
Since 1989, BoMetals has earned a reputation in the concrete and masonry accessory market for continuous innovation, enthusiastic customer service and dedication to the construction industry.

BoMetals serves the concrete accessory market by manufacturing a wide variety of products used in both commercial and residential construction. These products include a comprehensive offering of PVC and TPER Waterstop to meet the needs of any job. We also supply Mastic and Hydrophilic Waterstops. BoMetals is also the nation's top manufacturer of keyold joint systems. They include QuicKey™, the only galvanized joint system that features square dowel knockouts and PRO-KEY™, with a patented positive stake-to-key interlock. Other concrete products include Keyway Caps, Dovetail Anchor Slot, Expansion Board Caps, Zip Joints, Chamfer and Radius Formers plus much more.

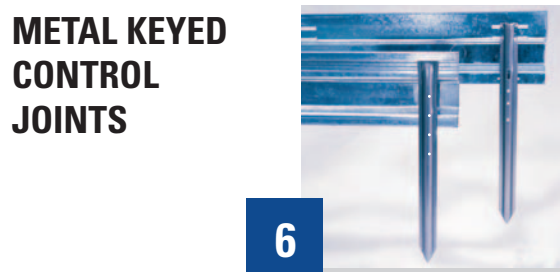
BoMetals serves the masonry market with a complete line of Control Joint products, which are available in both PVC and Rubber compounds. We also manufacture Block Caps and Weep Tubes.

All BoMetals products are available through a national network of distributors and warehouses. A trained and knowledgeable sales and engineering staff offer personalized service unparalleled in the industry today.

## WATERSTOPS



## METAL KEYED CONTROL JOINTS



## JOINT FORMERS



## DOVETAIL ANCHOR SLOT AND DOVETAIL ANCHORS



## MASONRY ACCESSORIES



**BoMetals, inc.**  
concrete and masonry accessories

## PVC WATERSTOPS

### TYPES OF CONCRETE JOINTS

#### Expansion (Isolation) Joint

A joint that separates the slab structurally from other building elements such as walls, columns, foundations, drain pipes, to accommodate differential horizontal and vertical movement.

#### Contraction (Control) Joint

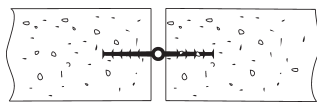
A formed, sawed or tooled groove in a concrete structure to create a weakened plane and regulate the location of cracking resulting from the dimensional change of different parts of the structure.

#### Construction Joint

A joint placed in concrete where construction operations are concluded for the day.

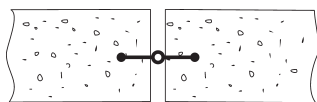
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### WATERSTOPS FOR MOVING JOINTS



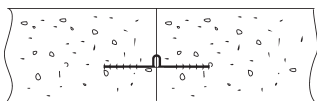
#### Ribbed Center Bulb

Used in expansion joints where normal movement between members is anticipated. Also available in split shapes.



#### Dumbbell with Center Bulb

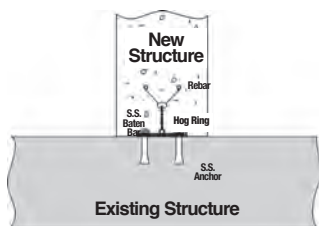
Used in expansion joints where longitudinal and transverse movement is anticipated.



#### Tear Web

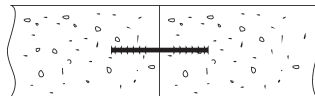
Used in expansion joints where large joint movements are expected.

### RETROFIT APPLICATIONS



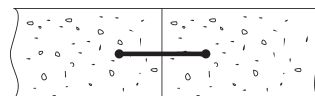
Used to provide a watertight seal when attaching a new construction project to an existing one.

### WATERSTOPS FOR NON OR LIMITED MOVEMENT JOINTS



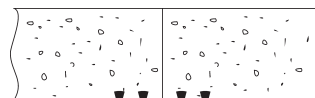
#### Flat Ribbed

Used in construction joints where little or no movement is anticipated and where high bond strength is desired.



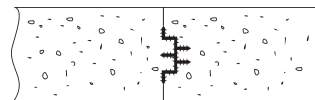
#### Dumbbell

Used in construction joints where little or no movement is anticipated. Also available in split shapes.



#### Base Seal

Used in grade construction between concrete walls and slabs, in backfilled retaining walls and in keyed construction joints in walls and slabs.



#### Multi Rib

Used in construction joints in vertical applications where key action is desired.

### TYPICAL PHYSICAL PROPERTIES OF PVC WATERSTOPS

Typical Properties	Nominal Value	ASTM
Water Absorption	0.15%	D-570
Tear Resistance, psi / kg per cm <sup>2</sup>	350 / 24.5	D-624
Specific Gravity, (+/-0.02)	1.33	D-792
Hardness, Shore A (+/-3, 10 sec. delay)	74	D-2240
Tensile, psi / kg per cm <sup>2</sup>	2075 / 145.25	D-638, Type IV
Elongation, %	435	D-638, Type IV
100% Modulus, psi / kg per cm <sup>2</sup>	725 / 50.75	D-638, Type IV
Brittle Point (Tb), °F	-37 (Passed)	D-746
Stiffness in Flexure, psi / kg per cm <sup>2</sup>	1440 / 100.8	D-747
Ozone Resistance	No Failure	D1149
<b>Accelerated Extraction, CRD-C572</b>		
Tensile, psi / kg per cm <sup>2</sup>	2025 / 141.75	D-638, Type IV
Elongation, %	420	D-638, Type IV
<b>Effect of Alkali, CRD-C572</b>		
Weight Change, %	.05	-----
Change in Hardness, Shore A	-3	D-2240

IMPORTANT: The technical data herein is believed to be accurate. It is offered for your consideration, investigation and verification. All testing and test data has been prepared by independent laboratories. NO WARRANTY, EXPRESS OR IMPLIED, IS MADE as to the accuracy or completeness of the technical data herein and the use thereof for any particular purpose.

## PVC WATERSTOPS FOR MOVING JOINTS

### Ribbed Center Bulb

Catalog Number	Head Pressure	Lbs./LF	Profile
RCB-4316	50'	.40	
RCB-4316LB	65'	.74	
RCB-6316	100'	.73	
RCB-6316NT	100'	.86	
RCB-614	125'	.98	
RCB-638	125'	1.16	
RCB-638NT	125'	1.55	
RCB-638BR	125'	1.19	
RCB-638LB	125'	1.60	
RCB-612	150'	1.90	
RCB-9316	150'	1.20	
RCB-938	175'	1.68	
RCB-938NT	175'	2.40	
RCB-938LB	175'	2.25	
RCB-938VLB	175'	2.73	
RCB-938BR	175'	2.41	
RCB-12316	150'	1.56	
RCB-1212	225'	3.84	
RCB-1212T	225'	3.60	

### Split Rib

Catalog Number	Head Pressure	Lbs./LF	Profile
SR-4316	65'	.52	
SR-6316	100'	.75	
SR-638	100'	1.54	
SR-938	150'	2.04	

### Dumbbell With Center Bulb

Catalog Number	Head Pressure	Lbs./LF	Profile
DBCBC-614	100'	1.41	
DBCBC-938	150'	3.10	
DBCBC-938L	150'	3.70	

### Tear Web

Catalog Number	Head Pressure	Lbs./LF	Profile
CTW-1-2	150'	1.10	
TW-618	65'	.78	
TW-918	100'	1.00	
TW-938	150'	3.78	

**PAGE 3 & 4 PVC PROFILES AVAILABLE IN TPER**

## PVC WATERSTOPS FOR NON OR LIMITED MOVEMENT JOINTS

### Flat Ribbed

Catalog Number	Head Pressure	Lbs./ LF	Profile
FR-4316	65'	.45	
FR-6316	100'	.76	
FR-638	125'	1.50	
FR-638T	125'	1.30	
FR-638RT	125'	1.55	
FR-9316	150'	1.20	
FR-938	175'	2.37	
FR-938T	175'	2.07	

### Dumbbell

Catalog Number	Head Pressure	Lbs./ LF	Profile
DB-4316	65'	.49	
DB-6316	100'	.71	
DB-6316LB	100'	.84	
DB-614	100'	.98	
DB-638	150'	1.50	
DB-9316	100'	1.01	
DB-938	150'	2.17	
DB-938LB	150'	2.55	
DB-1238	150'	2.99	

### Split Dumbbell

Catalog Number	Head Pressure	Lbs./ LF	Profile
SD-638	125'	1.51	
SD-938	150'	2.20	

### Base Seal

Catalog Number	Head Pressure	Lbs./ LF	Profile
BS-618	100'	.89	
BS-718	75'	.81	
BS-72518	160'	.88	
BS-9316	150'	1.55	
BS-9532	100'	1.53	
CU-912	n/a	4.46	

### Multi Rib

Catalog Number	Head Pressure	Lbs./ LF	Profile
MR-314	10'	.84	
MR-412	50'	1.24	

### Retro Fit

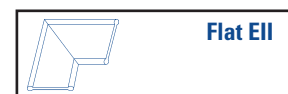
Catalog Number	Head Pressure	Lbs./ LF	Profile
RF-4316	n/a	.85	
RF-638	n/a	2.15	

### CUSTOM SPLICES

An important factor in the watertightness of any waterstop is the reliability of splices. With BoMetals fittings, you are guaranteed greater strength and efficiency with ease of field installation. The following factory made splices are available in PVC & TPER.



Vertical Ell



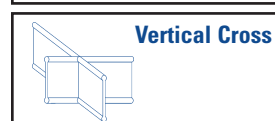
Flat Ell



Vertical Tee



Flat Tee



Vertical Cross



Flat Cross

## CHEMICAL RESISTANT (TPER) WATERSTOPS

Chemical Resistant Waterstop is available in every PVC profile. TPER (Thermoplastic Elastomeric Rubber) should be used to provide a fluid tight diaphragm in primary, secondary and tertiary above and below ground containment facilities. This is accomplished by offering a product for concrete expansion and construction joints that greatly expands its resistance to petrol-chemical, solvents, aqueous acids, gasoline, jet fuel, and chemicals listed as hazardous by the EPA. BoMetals' many selections will allow precise waterstop design for each critical application. The physical design and the field installation adversities should be considered when specifying and designing waterstop installation.

**TPER AVAILABLE  
IN EVERY PVC  
PROFILE FOUND  
ON PAGES 3 & 4**

### Physical Properties

Properties	Nominal Value	ASTM
Hardness, Shore A (+/-5)	85.0	D-2240
Tensile Strength @ break, psi (kg/cm2)	2310 (162)	D-412
Elongation, @ break	850%	D-412
Brittle Point, degrees	-70 F (-57C)	D-746
Specific Gravity, g/cm3	0.93	D-792
100% Modulus (kg/cm2)	1073 (75)	D-638
Ozone Resistance	Passed 450pphm	D-1171

### POPULAR TPER PROFILES

Stock Number	Lbs./LF	Profile
TCB-4316	.31	
TCB-6316	.45	
TCB-6316NT	.55	
TCB-638LB	1.05	
TDCB-614	.73	
TDCB-938	2.00	
TFR-4316	.33	
TFR-6316	.53	
TDB-4316	.34	
TDB-638	1.04	
TRF-638	1.32	
TTW-618	.40	
TTW-9316	1.08	

## METAL KEYED CONTROL JOINTS

## QUICKEY™

### QUICKEY™ and PRO-KEY™ SYSTEMS

QuicKey™ (US Pat. #6502359) and PRO-KEY™ (US Pat. #5380122) are stay in place metal keyed control joint formers for use in concrete flatwork as a control or construction joint. The tongue and groove design provides excellent load transfer characteristics for heavy, wheeled traffic and also prevents uneven settling associated with aggregate interlock. The use of a metal keyed control joint eliminates costly form stripping and saw cutting and slow checker-board placement of concrete.

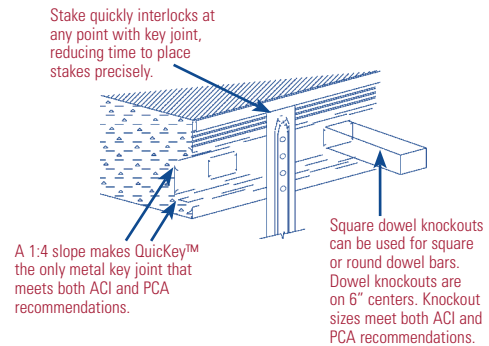
### Material

QuicKey™ and PRO-KEY™ are manufactured of 24 gauge, G60 hot dipped mill galvanized steel. They are furnished in 10' lengths for 4", 5", 6", 8" and 10"-12" slabs. Each piece is punched on 6" centers with dowel rod knockouts. QuicKey™ LOCKING-TAB™ stakes are manufactured from 13 gauge HRPO steel and are available in 12", 15", 18", 24" and 30" lengths. PRO-KEY™ LOCK SLOT™ stakes are manufactured from 16 gauge HRPO steel and are also available in 12", 15", 18" and 24" lengths. Both keyed control joint formers are mill galvanized before fabrication and conform to ASTM A 924, ASTM A 653 CQ or LFQ. The corresponding stakes are manufactured from hot rolled, pickled and oiled steel conforming to ASTM A 569. All keyway caps are manufactured from PVC compound.

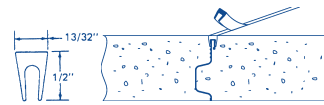
### QuicKey™

#### Advantages

- ❖ QuicKey™ is the only galvanized joint system that features knockouts for square dowels, which provide better load transfer over round dowels and also reduce edge curl on the slab.
- ❖ Knockout sizes meet both ACI and PCA recommendations for the design of tongue and groove key joint.
- ❖ LOCKING-TAB™ stakes provide a positive interlock between stake and key joint that eliminates floating or rising from the stake, minimizing high spots. The stake profile features a non-twist design which allows the stake to be driven at a straight angle.
- ❖ Saves on installation time...stake quickly interlocks at any point with key joint, reducing time to place stakes precisely.
- ❖ Stiffening ribs are designed for increased rigidity while installing.

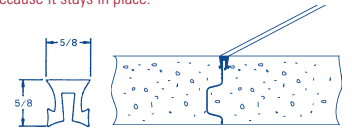


QuicKey™ removable cap yields straight void ready for sealing



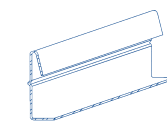
Cat. # 2000

Non-removable cap seals the joint because it stays in place.

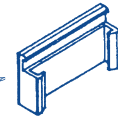


Cat. # 2010

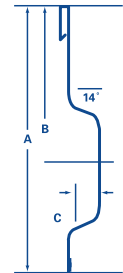
#### Other accessories include...



QuicKey™ Splice  
Cat. # 2020



QuicKey™ Stake Clip  
Cat. # 2021

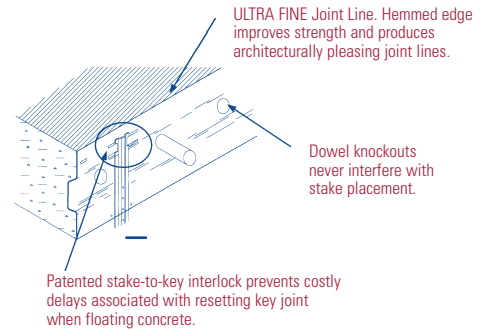


Cat. #	Slab Thickness	A	B	C	Knockout Size
QK35	4"	3 1/8"	2"	3/4"	7/8" x 1 3/8"
QK45	5"	4 1/8"	2 1/2"	3/4"	7/8" x 1 3/8"
QK55	6"	5 1/8"	3"	3/4"	1 1/4" x 1 1/2"
QK75	8"	7 1/8"	4"	1"	1 1/4" x 1 1/2"
QK95	10" - 12"	9 1/8"	5"	1"	1 1/4" x 1 1/2"

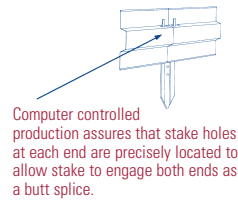
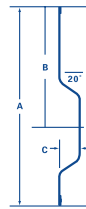
## PRO-KEY™

### Advantages

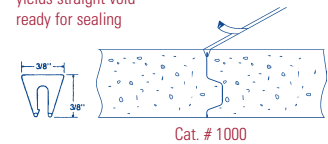
- ❖ Positive stake-to-key lock of PRO-KEY™ prevents costly delays associated with resetting key joint when floating concrete. Stakes interlock with slots to prevent the key form rising off the stakes.
- ❖ Location of the key is 1/2 depth of slab as specified by ACI & PCA.
- ❖ LOCK SLOT™ stakes double as a butt splice.
- ❖ Radius formed key eliminates the sharp angles that produce a spalling tendency.
- ❖ ULTRA FINE profile at top edge eliminates surface voids, reduces spalling and produces architecturally pleasing joint lines in the finished slab.



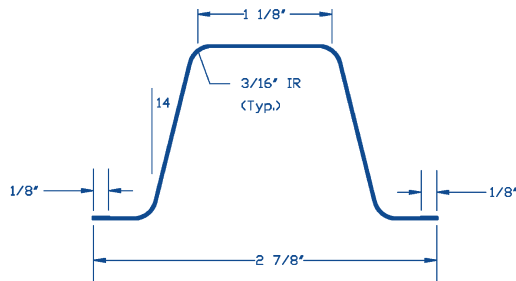
Cat. #	Slab Thickness	A	B	C	Knockout Dia.
3500	4"	3 1/8"	2"	3/4"	7/8"
4500	5"	4 1/8"	2 1/2"	3/4"	7/8"
5500	6"	5 1/8"	3"	3/4"	7/8"
7500	8"	7 1/8"	4"	3/4"	1 1/4"
9500	10" - 12"	9 1/8"	5"	3/4"	1 1/4"



PRO-KEY™ removable cap yields straight void ready for sealing

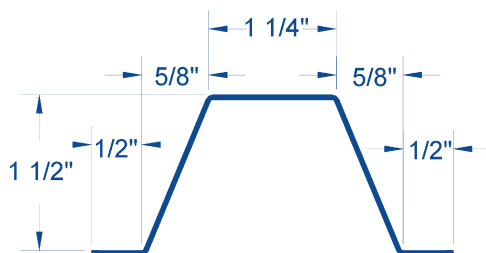


## METAL NAIL-ON KEYWAY



- Made of high quality hot dipped mill galvanized steel
- A 1:4 slope that meets both ACI & PCI recommendations
- Folded over to eliminate sharp edges
- All knockouts are on 6" center and are 9/16"
- 5,000ft/sk, 25 bundles of 200ft ea, 10ft lengths

## PLASTIC NAIL-ON KEYWAY

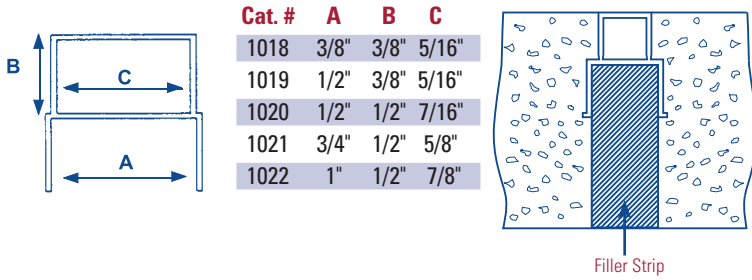


- Plastic Nail-On Keyway is nailed to a form prior to pouring
- Installed in tilt-up work, industrial floors, curbs or wherever specified
- Simple to use, lightweight and reusable
- BoMetals quality that you've come to recognize
- 10-foot lengths, 400 feet per box

## JOINT FORMERS

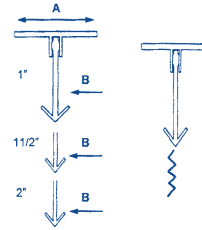
### EXPANSION BOARD CAPS

Expansion Board Caps provide clean, sharp lines for sealants. They eliminate the difficulty of removing wooden formers.



### ZIP JOINTS

Zip Joints are easily installed joint formers designed to provide positive control of transverse construction or expansion joints. The two-part assembly is designed to permit removal of the top portion after the concrete has hardened, thereby creating a clean, neatly defined void for application of caulk or sealant when specified.



Cat. #	A	B
1010	1"	1"
1011	1"	1 1/2"
1012	1"	2"

### GRADE STAKES

- Pre drilled holes for tie wire
- Termite proof
- Each stake has a pointed, sharp tip for easy installation
- Will not split like wood
- Can be used as rebar support
- Available in 12", 18", 24" or 30" lengths
- 100 pieces per box
- Made from 16 gauge HRPO steel



### SAFETY FENCE STAKES

- One step installation! Simply weave vertically through fence, drive into the ground and place top of fence behind stake ears.
- Fence can be positioned in place without additional use of cable ties or staples
- Each stake has a pointed, sharp tip for each installation
- Works with all types of fences including tree barrier and diamond.
- Will not split like wood.
- Available in 5' or 6' lengths
- Made from 13 gauge HRPO steel
- 10 pieces per bundle.
- Pallet quantities:  
5' - 1,600 each or 160 bundles  
6' - 1,400 each or 140 bundles



## NAIL STAKES - ROUND, SQUARE & FLAT

BoMetals, inc. supply of nail stakes are primarily used to secure wood or metal forms for concrete placement jobs and in outside concrete forming. Stakes are painted and please let us know if you need other shapes or sizes. As always, we will be happy to serve you.

### 3/4" ROUND NAIL STAKES - 3/4" Full Size, Cold Rolled, Round with Holes

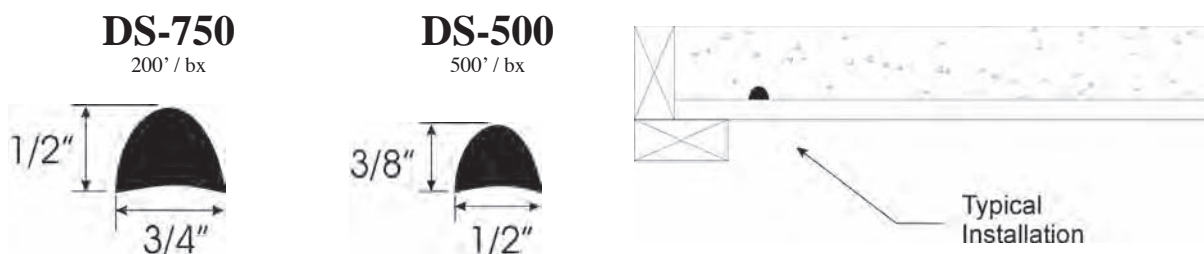
Code	Size	pcs / bdl	wt / bdl	pcs / skid	wt / skid
NS-3412	3/4" x 12"	10	14	1500	2,100
NS-3418	3/4" x 18"	10	21	1000	2,100
NS-3424	3/4" x 24"	10	29	750	2,175
NS-3430	3/4" x 30"	10	35	600	2,100
NS-3436	3/4" x 36"	10	43	500	2,150
NS-3442	3/4" x 42"	10	50	400	2,000
NS-3448	3/4" x 48"	10	57	300	1,710

### 7/8" ROUND NAIL STAKES - 7/8" Full Size, Cold Rolled, Round with Holes

Code	Size	pcs / bdl	wt / bdl	pcs / skid	wt / skid
NS-7812	7/8" x 12"	10	20	1000	2,000
NS-7818	7/8" x 18"	10	26	750	1,950
NS-7824	7/8" x 24"	10	33	600	1,980
NS-7830	7/8" x 30"	10	40	500	2,000
NS-7836	7/8" x 36"	10	50	400	2,000
NS-7842	7/8" x 42"	10	57	350	1,995
NS-7848	7/8" x 48"	10	67	300	2,010

## DRIP STRIP

BoMetals, Inc. Drip Strips are designed to provide an even, smooth drip groove on the underside of porches and overhangs. The Drip Strip is nailed to the form. Then it is easily removed from the concrete to be reused in your next application.

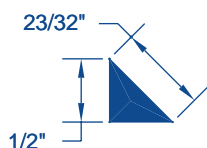


## PVC CHAMFER AND RADIUS FORMERS

BoMetals' immense offering of Chamfer and Radius formers are designed to create outside corners on columns, piers, beams or walls. They provide a clean, smooth finished edge.

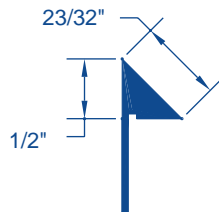
### 1/2" Chamfer Former CS -500

500 ft./roll  
42 lbs



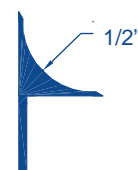
### 1/2" Chamfer Former w/Leg CL -500

10 ft. length  
500 ft/ctn  
54 lbs



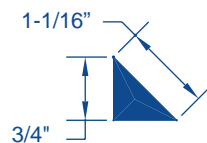
### 1/2" Radius Former w/Leg RL -500

10 ft. length  
500 ft/ctn  
33 lbs



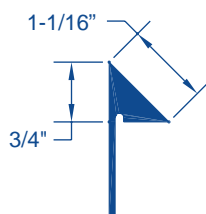
### 3/4" Chamfer Former CS -750

200 ft./roll  
39 lbs



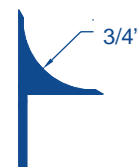
### 3/4" Chamfer Former w/Leg CL -750

10 ft. length  
300 ft/ctn  
68 lbs



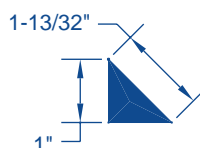
### 3/4" Radius Former w/Leg RL -750

10 ft. length  
300 ft/ctn  
39 lbs



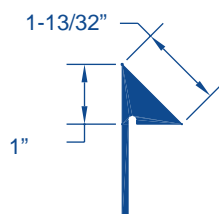
### 1" Chamfer Former CS -1000

10 ft. length  
300 ft/ctn  
101 lbs



### 1" Chamfer Former w/Leg CL -1000

10 ft. length  
300 ft/ctn  
116 lbs



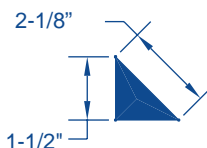
### 1" Radius Former w/Leg RL -1000

10 ft. length  
300 ft/ctn  
59 lbs



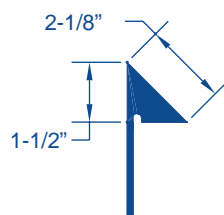
### 1-1/2" Chamfer Former CS -1500

10 ft. length  
150 ft/ctn  
113 lbs



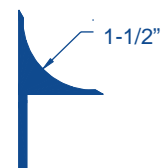
### 1-1/2" Chamfer Former w/Leg CL -1500

10 ft. length  
150 ft/ctn  
121 lbs



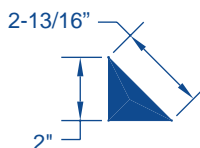
### 1-1/2" Radius Former w/Leg RL -1500

10 ft. length  
150 ft/ctn  
56 lbs



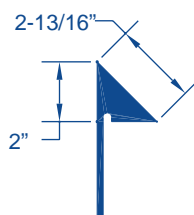
### 2" Chamfer Former CS -2000

10 ft. length  
100 ft/ctn  
134 lbs



### 2" Chamfer Former w/Leg CL -2000

10 ft. length  
100 ft/ctn  
139 lbs



### 2" Radius Former w/Leg RL -2000

10 ft. length  
100 ft/ctn  
63 lbs

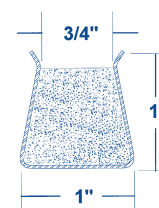
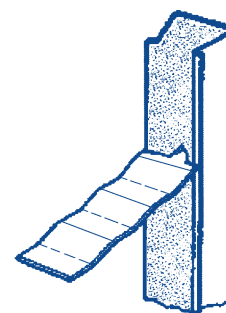


## DOVETAIL ANCHOR SLOT & DOVETAIL ANCHORS

PRO-SLOT™ Anchor Slot is a stay-in-place concrete form used in forming a channel into the face of any cast in place wall or column. By installing Dovetail Anchors into the PRO-SLOT™, you can then anchor brick, block or stone to the concrete surface.

### Material

BoMetals' galvanized PRO-SLOT™ Anchor Slot is manufactured of G60 hot dipped mill galvanized steel in 26/28, 24, 22, 20 and 18 gauge. PRO-SLOT™ is offered standard in 10' lengths with custom lengths available on a special order basis. BoMetals' PRO-SLOT™ is standard with a polystyrene foam filler to keep the channel clear of concrete and resist closure due to hydraulic pressure. It is also available without a polystyrene foam. PRO-SLOT™ incorporates continuous nail grooves along the back edge of the profile to help in nailing the slot to the forms. Dovetail Anchors are manufactured in 16 gauge hot dipped, mill galvanized steel and are furnished in 3 1/2", 5 1/2" and 7 1/2" lengths with a 1" overall width. PRO-SLOT™ Anchor Slot and Dovetail Anchors are mill galvanized before fabrication and conform to ASTM A 924, ASTM A 653 CQ or LFQ.



### Advantages

- ❖ PRO-SLOT™ Anchor Slot and Dovetail Anchors provide a permanent, fast, flexible and cost effective method of anchoring brick, stone and block to cast-in-place concrete walls and columns.
- ❖ PRO-SLOT™ provides an excellent anchoring system for both cast-in-place and precast concrete.-
- ❖ With a heavy, galvanized coating to prevent corrosion, Dovetail Anchors have deep corrugations to increase pull out strength.

### Installation Instructions

- ❖ Nail BoMetals' PRO-SLOT™ Anchor Slot to the inside of the form wall prior to erection. Install vertically, spacing the channels 16", 18" or 24" on center. Use the nail grooves to speed up installation and space nails on 12" center.
- ❖ Dovetail Anchors should be spaced as indicated on drawings or called for in specifications or as recommended by local building codes. Typically, Anchors are spaced 12" to 16" vertically.

Product	Color Code	Description	Feet / Skid	# / Skid
DAS-18	ORANGE	18ga Anchor Slot STANDARD 10' long	6,000'	2,933
DAS-20	YELLOW	20ga Anchor Slot STANDARD 10' long	6,000'	2,247
DAS-22	GREEN	22ga Anchor Slot STANDARD 10' long	6,000'	1,873
DAS-24	BLUE	24ga Anchor Slot STANDARD 10' long	6,000'	1,508
DAS-26	RED	26ga Anchor Slot STANDARD 10' long	6,000'	1,068

\*Custom lengths are available. Please call 800.862.4835 for information.

## MASONRY CONTROL JOINTS

Cracking in buildings normally results from restrained movement. This movement may originate within a building material due to temperature change or shrinkage, or may result from movement of adjacent building elements. In most cases, movement is inevitable and must be accounted for during design if cracking is to be controlled.

BoMetals Control joints, when placed in concrete masonry walls, are an excellent method of crack control. Control joints are vertical separations built into a concrete masonry wall to reduce restraint and permit longitudinal movement. They are located where cracking is likely to occur due to excessive tensile stress.

### Material

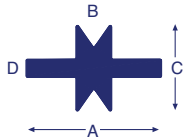
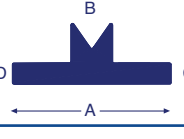
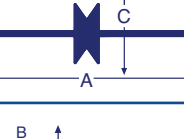
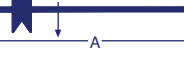
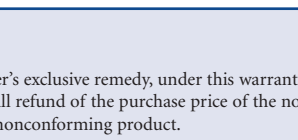
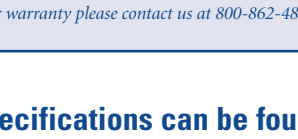

BoMetals masonry control joints are available in both PVC and Rubber compounds. They are standard 4' lengths. Special lengths are available on request.

### TYPICAL PHYSICAL PROPERTIES OF PVC CONTROL JOINTS, ASTM D-2287

Properties	Test Method	Nominal Value
Tensile Strength	ASTM D-638	2000 PSI
Elongation	ASTM D-638	350%
Specific Gravity	ASTM D-792	1.4
Hardness Shore A	ASTM D-2240	85 +/- 5

### TYPICAL PHYSICAL PROPERTIES OF RUBBER CONTROL JOINTS

Properties	Test Method	Nominal Value
Tensile Strength	ASTM D-2000	1300 PSI
Elongation	ASTM D-2000	350%
Hardness Shore A	ASTM D-2000	84 +/- 5

Catalog #	Material	A	B	C	D	#Lbs./LF	Description
<b>BCJ-1</b>	<b>PVC</b>	<b>2 3/8"</b>	<b>5/8"</b>	<b>1 1/2"</b>	<b>5/16"</b>	<b>.75</b>	
<b>BCJ-8</b>	<b>Rubber</b>	<b>2 3/8"</b>	<b>5/8"</b>	<b>1 1/2"</b>	<b>5/16"</b>	<b>.52</b>	
<b>BCJ-2</b>	<b>PVC</b>	<b>2 3/8"</b>	<b>5/8"</b>	<b>9/16"</b>	<b>5/16"</b>	<b>.60</b>	
<b>BCJ-9</b>	<b>Rubber</b>	<b>2 3/8"</b>	<b>5/8"</b>	<b>9/16"</b>	<b>5/16"</b>	<b>.42</b>	
<b>BCJ-3</b>	<b>PVC</b>	<b>6 7/8"</b>	<b>5/8"</b>	<b>1 1/2"</b>	<b>3/8"</b>	<b>1.00</b>	
<b>BCJ-10</b>	<b>Rubber</b>	<b>6 7/8"</b>	<b>5/8"</b>	<b>1 1/2"</b>	<b>3/8"</b>	<b>.69</b>	
<b>BCJ-4</b>	<b>PVC</b>	<b>10 7/8"</b>	<b>5/8"</b>	<b>7/16"</b>	<b>1 1/2"</b>	<b>1.35</b>	
<b>BCJ-11</b>	<b>Rubber</b>	<b>10 7/8"</b>	<b>5/8"</b>	<b>7/16"</b>	<b>1 1/2"</b>	<b>.94</b>	

### LIMITED WARRANTY AND LIMITATIONS ON LIABILITY

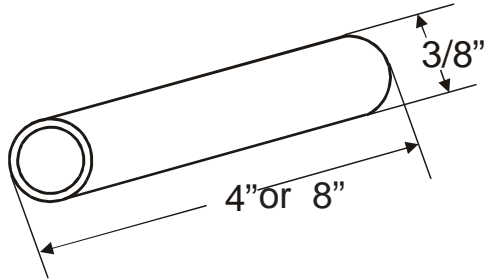
BoMetals, inc. warrants that each product described herein shall be free from defects in materials and workmanship, ordinary wear and tear excepted, for one year from the date of delivery thereof, provided that such product is used and installed properly and is not interchanged or used with the products of other manufacturers. BoMetals' sole

obligation, and buyer's exclusive remedy, under this warranty shall be limited to, at BoMetal's option, full refund of the purchase price of the nonconforming product or replacement of the nonconforming product.

*For full details on our warranty please contact us at 800-862-4835*

## MASONRY ACCESSORIES

### WEEP TUBES



BoMetals, inc. weep tubes shall be placed to insure that they are correctly positioned in the masonry joint to guarantee air movement from the cavity to the outside of the wall. Typical placement would be for the one end of the weep tube to be flush with the outside of the joint and the opposite end to project into the cavity of the wall. Typical locations would be no greater than 24" on center. Care should be taken during mortar placement to prevent excessive movement of the weep tubes to insure against displacement. Always thoroughly and systematically inspect mortar around the weep tubes to make certain that the weep tube is free from obstruction

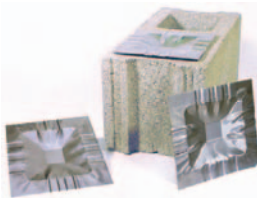
#### PHYSICAL PROPERTIES

Properties	Test Method	Nominal Value
Tensile Yield Strength	ASTM D-638	6,020
Flexural Yield Strength	ASTM D-790	10,410
IZOD Impact Strength	ASTM D-256	16.2
Initial Hardness Shore D	ASTM D-2240	78

#### PACKAGING

Catalog Number	Length	Box Quantity	Skid Quantity
2035	4"	1,000 ea	36,000 ea
2035	4"	500 ea	36,000 ea
2037	4"	250 ea	36,000 ea
2085	8"	500 ea	36,000 ea

### BLOCK CAPS

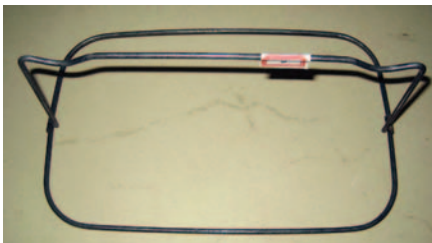


BoMetals, inc. Block Caps are preformed metal inserts that sturdily lock between concrete block voids to stop mortar infiltration. We package them 200 / bx at 54 boxes per skid.

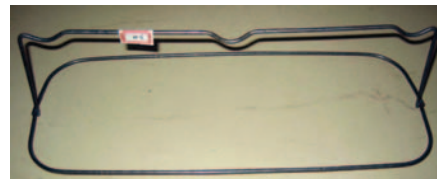
## 2 AND 3 BAR FOUNDATION CHAIRS

Bar Foundation Chairs are widely used to support rebar when pouring footers. They are simple to use, inexpensive, and convenient. As you see below, we have a 2-Bar and a 3-Bar manufactured from 12-gauge wire. There are 100 per box.

2-BAR                      40 boxes / skid



3-BAR                      32 boxes / skid



## Waterstop Products

Manufactured by **Henry**  
COMPANY

### Synko Flex

**SYNKO-FLEX (SF-302)** Waterstop is a specially formulated preformed adhesive joint sealant that provides a lasting, watertight bond to both fresh and cured concrete surfaces.

**SYNKO-FLEX** is designed as an alternative to conventional waterstops that are used in cold joints at footings, walls or slab joints. Synko-Flex does not rely on swelling upon contact with fresh concrete or water to achieve its water tight seal and waterstop capabilities. Because of this, there is never a danger of a joint "blow out" due to over expansion or improper positioning.

**SYNKO-FLEX** Waterstop is a non-expansive, single-component, self-sealing plastic adhesive compound, extruded in a square cross-section between two quick-release protective wrappers. It bonds to cured concrete surfaces and fuses with fresh concrete during the hydration and curing process to achieve a watertight seal. Once adhered, Synko-Flex is unaffected by rain, snow or infiltrating ground water which may be present during the installation period.

**SYNKO-FLEX's** unique formula and packaging provides a simple, easy-to-install solution for effective waterstop sealing. It is also resistant to acids, alkalis and hydrogen sulfide gases over the life of the structure.

**SYNKO-FLEX** has been used since 1968 as a waterstop for cold joints in highway tunnels, airport terminals, marine animal theme parks, hospitals, performing art theaters, parking garages, hotels, office buildings, fish hatcheries, enclosed potable water reservoirs, warehouses sports complexes and wastewater plants.

#### Primer

**SYNKO-FLEX PRIMER (SF-311)** is a thin penetrating solution for premium selected asphalt base in a petroleum solvent. The primer readily penetrates the pores and seals dusty concrete surfaces to provide an optimal surface for the adhesion and bonding of Synko-Flex preformed adhesive waterstop. Primer is designed for application by brush.

**Packaging:** 1 gallon cans

#### Hydro-Flex® Waterstop

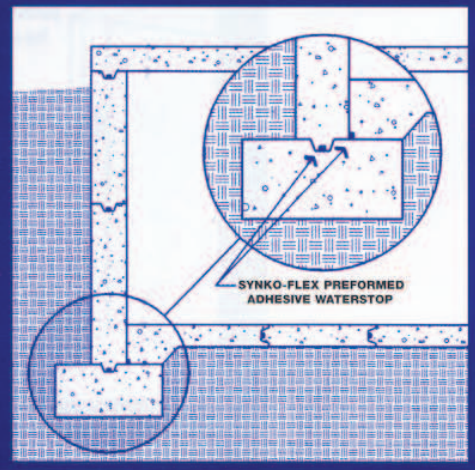
**HYDRO-FLEX (HF-302)** is a flexible, preformed adhesive coil specially formulated butyl rubber. It swells in the presence of water, filling voids in unfinished or poorly consolidated concrete surfaces providing a lasting, watertight compression seal in non-moving joints. Because of its special butyl rubber composition it remains flexible and easy to handle during cold weather conditions.

**Packaging:** 1 carton contains 100 lineal feet (6 coils, 16'8" each)

### Preformed Plastic Adhesive Waterstop

#### SYNKO-FLEX ADHESIVE WATERSTOP APPLICATION DETAILS...

- UNDERGROUND STRUCTURES
- TANKS
- TUNNELS
- FOUNDATION WALLS



#### Packaging

Size	1"x1"x3ft.
No Strips	35 Strips
Lineal Ft/Carton	105 ft.



## GUIDE SPECIFICATIONS

THE FOLLOWING PARAGRAPHS ARE FOR INSERTION INTO SECTIONS OF GENERIC SPECIFICATIONS OR GENERIC/ PROPRIETARY SPECIFICATIONS COVERING CONCRETE FORMWORK.

### 2.XX ACCESSORIES

- A. Waterstops: Polyvinyl Chloride (PVC) with the following physical properties:
1. Tensile Strength: Not less than 2020 psi when tested in accordance with ASTM D 412.
  2. Ultimate Elongation: Not less than 410 percent when tested in accordance with ASTM D 412.
  3. Low Temperature Brittleness at minus 35 degrees F: Passes when tested in accordance with ASTM D 746.
  4. Stiffness in Flex: Not less than 1440 psi when tested in accordance with ASTM D 747.
  5. Initial Hardness, Shore A: 80 plus or minus 5 when tested in accordance with CRD C-572.
  6. Tensile: Not less than 1910 psi when tested in accordance with CRD C-572.
  7. Elongation: Not less than 390 percent when tested in accordance with CRD C-572.
  8. Weight Change: Not more than plus 0.12 when tested in accordance with CRD C-572.
  9. Durometer Change: Not more than minus 3 when tested in accordance with CRD C-572.
  10. Acceptable Products: "Waterstops"; BoMetals, Inc.

SELECT TYPE(S) FROM BELOW, FILL IN MODEL NUMBER(S) AND COORDINATE WITH DRAWINGS.

- a. Ribbed Center Bulb: Model Number RCB-\_\_\_\_\_.
  - b. Split Ribbed: Model Number SR-\_\_\_\_\_.
  - c. Dumbbell with Center Bulb: Model Number DBCB-\_\_\_\_\_.
  - d. Tear Web: Model Number TW-\_\_\_\_\_.
  - e. Flat Ribbed: Model Number FR-\_\_\_\_\_.
  - f. Dumbbell: Model Number DB-\_\_\_\_\_.
  - g. Split Dumbbell: Model Number SD-\_\_\_\_\_.
  - h. Base Seal: Model Number BS-\_\_\_\_\_.
  - i. Multi-Rib: Model Number MR-\_\_\_\_\_.
  - j. Retrofit: Model Number RF-\_\_\_\_\_.
- B. Control Joint Forms: Two-part, high-impact polystyrene joint former, with top portion designed to be removed after concrete has hardened.

FILL IN DEPTH(S) BELOW AND COORDINATE WITH DRAWINGS. AVAILABLE DEPTHS ARE 1, 1-1/2 AND 2 INCHES.

1. Depth: \_\_\_\_\_ inches.
  2. Acceptable Product: "Zip Joints"; BoMetals, Inc.
- C. Expansion Board Caps: High-impact polystyrene caps for fiber board joint filler, designed to be removed after concrete has hardened and before sealants are applied.

FILL IN WIDTH(S) BELOW AND COORDINATE WITH DRAWINGS. AVAILABLE WIDTHS ARE 3/8, 1/2, 3/4 AND 1 INCH.

1. Width: \_\_\_\_\_ inch.
  2. Acceptable Product: "Expansion Board Caps"; BoMetals, Inc.
- D. Metal Keyed Control Joint: Hot-dipped galvanized steel conforming to ASTM A 924 and ASTM A 653, CQ or LFQ, with hot rolled, pickled and oiled steel stakes conforming to ASTM A 569.

INSERT THICKNESS(S) BELOW AND COORDINATE WITH DRAWINGS. AVAILABLE THICKNESSES ARE 4, 5, 6, 8 AND 10 TO 12 INCHES.

1. Gage: 24.
  2. Thickness(s): \_\_\_\_\_ inches.
- INSERT LENGTH(S) BELOW AND COORDINATE WITH DRAWINGS. AVAILABLE LENGTHS ARE 12, 15, 18 AND 24 INCHES.
3. Stake Length(s): \_\_\_\_\_ inches.
  4. Accessories: Provide manufacturer's standard removable void caps, non-removable caps, splices, and stake clips.
  5. Acceptable Product: "Quickey"; BoMetals, Inc.

GENERALLY SELECT EITHER CONTROL JOINT ABOVE OR BELOW. RETAIN BOTH IF REQUIRED AND COORDINATE WITH DRAWINGS.

- E. Metal Keyed Control Joint: Hot-dipped galvanized steel conforming to ASTM A 924 and ASTM A 653, CQ or LFQ, with hot rolled, pickled and oiled steel stakes conforming to ASTM A 569.

INSERT THICKNESS(S) BELOW AND COORDINATE WITH DRAWINGS. AVAILABLE THICKNESSES ARE 4, 5, 6, 8 AND 10 TO 12 INCHES.

1. Gage: 24.
  2. Thickness(s): \_\_\_\_\_ inches.
- INSERT LENGTH(S) BELOW AND COORDINATE WITH DRAWINGS. AVAILABLE LENGTHS ARE 12, 15, 18 AND 24 INCHES.
3. Stake Length(s): \_\_\_\_\_ inches.
  4. Accessories: Provide manufacturer's standard removable void caps.
  5. Acceptable Product: "Pro-Key"; BoMetals, Inc.

- F. Dovetail Slots and Anchors: Hot-dipped galvanized steel conforming to ASTM A 924 and ASTM A 653, CQ or LFQ.

SLOTS ARE AVAILABLE WITH OR WITHOUT FOAM FILLER, SELECT ONE OF THE THREE PARAGRAPHS BELOW AND COORDINATE WITH DRAWINGS.

1. Slots: 1-inch by 1-inch with 3/4-inch throat and polystyrene foam filler.
1. Slots: 1-inch by 1-inch with 3/4-inch throat, without polystyrene foam filler.
1. Slots: 1-inch by 1-inch with 3/4-inch throat, with and without polystyrene foam filler as indicated on the drawings.

SELECT FROM GAGES BELOW AND COORDINATE WITH DRAWINGS.

- a. Gage(s): 26/28, 24, 22, 20 and 18 as indicated on the drawings.
2. Anchors: 16 gage by 1-inch wide.

SELECT FROM LENGTHS BELOW AND COORDINATE WITH DRAWINGS.

- a. Length(s): 3-1/2-inch and 5-1/2-inch as indicated on the drawings.
3. Acceptable Product: "Pro-Slot Anchor Slot & Dovetail Anchors"; BoMetals, Inc.

NO SPECIAL INSTALLATION SPECIFICATIONS ARE REQUIRED FOR THE PRODUCTS ABOVE BEYOND WHAT WOULD NORMALLY APPEAR IN A CONCRETE FORMWORK SPECIFICATION.

THE FOLLOWING PARAGRAPHS ARE FOR INSERTION INTO SECTIONS OF GENERIC SPECIFICATIONS OR GENERIC/ PROPRIETARY SPECIFICATIONS COVERING CONCRETE UNIT MASONRY.

### 2.XX ACCESSORIES

- A. Control Joints: Polyvinyl Chloride (PVC) with the following physical properties:
1. Tensile Strength: Not less than 2420 psi when tested in accordance with ASTM D 638.
  2. Elongation: Not less than 200 percent when tested in accordance with ASTM D 792.
  3. Specific Gravity: Not less than 1.40 when tested in accordance with ASTM D 638.
  4. Hardness, Shore A: 85 plus or minus 5 when tested in accordance with ASTM D 2240.
  5. Acceptable Products: "PVC Control Joints"; BoMetals, Inc.

FILL IN CATALOG #(S) BELOW AND COORDINATE WITH DRAWINGS.

- a. Catalog #:
- GENERALLY SELECT EITHER PVC ABOVE OR RUBBER BELOW. NOTE THAT RUBBER HAS A MUCH LOWER TENSILE STRENGTH AND, THEREFORE, MUCH GREATER ELONGATION. RETAIN BOTH IF REQUIRED AND COORDINATE WITH DRAWINGS.

- A. Control Joints: Rubber with the following physical properties:

1. Tensile Strength: Not less than 732 psi when tested in accordance with ASTM D 2000.
2. Elongation: Not less than 500 percent when tested in accordance with ASTM D 2000.
3. Hardness, Shore A: 80 plus or minus 5 when tested in accordance with ASTM D 2240.
4. Acceptable Products: "Rubber Control Joints"; BoMetals, Inc.

FILL IN CATALOG #(S) BELOW AND COORDINATE WITH DRAWINGS.

- a. Catalog #:
- NO SPECIAL INSTALLATION SPECIFICATIONS ARE REQUIRED FOR THE PRODUCTS ABOVE BEYOND WHAT WOULD NORMALLY APPEAR IN A CONCRETE UNIT MASONRY SPECIFICATION.

# BoMetals, inc.

concrete and masonry accessories



All BoMetals products are available through a national network of distributors and warehouses. A trained and knowledgeable sales and engineering staff offer personalized service unparalleled in the industry today.

- ◆ **Carrollton, GA Manufacturing Facility** ◆
- ◆ **Chicago, IL Warehouse** ◆
- ◆ **Houston, TX Warehouse** ◆
- ◆ **Denver, CO Warehouse** ◆

**141 Hammond Street ◆ Carrollton, GA 30117**  
**Toll Free: 1-800-862-4835 ◆ Phone: 770-832-2000 ◆ Fax: 770-832-2095**  
**[www.bometals.com](http://www.bometals.com) ◆ [info@bometals.com](mailto:info@bometals.com)**

