### BERTHA HV® ACCORDION SHUTTER - BLADE 3

**Code Approvals:** FBC (non-HVHZ), FBC (HVHZ)

<table>
<thead>
<tr>
<th>BERTHA HV® BLADE #3</th>
<th>BERTHA HV® CEILING HEADER #1 x 20’</th>
</tr>
</thead>
<tbody>
<tr>
<td>41-COLOR-4000 x 14’ 6” (10 Pcs/Sub)</td>
<td>41-COLOR-424 (4 Pcs.)</td>
</tr>
<tr>
<td>41-COLOR-4055 x 16’ 6” (120 Pcs/Master)</td>
<td>Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)</td>
</tr>
<tr>
<td>41-COLOR-4100 x 18’</td>
<td>Felt: 41-HV-320</td>
</tr>
</tbody>
</table>

Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

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**Additional Locations:** West Palm Beach & Lakeland, FL; Newark, DE and Birmingham, AL

**Website:** www.EasternMetal.com  
**E-mail:** info@EasternMetal.com  
**Version:** 08/16/16

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BERTHA HV® ADJ TRACK w/FELT x 20’
41-COLOR-423 (6 Pcs.)
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
Felt: 41-HV-320

BERTHA HV® (3) SILL ADAPTOR W/LIP x 20’
41-COLOR-464
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

BERTHA HV® WALKOVER TRACK x 20’
41-COLOR-440 (6 Pcs.)
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
Felt: 41-HV-320
Accepts Vinyl Inserts (p15)

BERTHA HV® CENTERMATE #1 X 20’ Self Mating
41-COLOR-421 (6 Pcs.)
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

BERTHA HV® FLOATING CENTERMATE #2 X 20’
41-COLOR-422 (4 Pcs.)
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

BERTHA HV® FEMALE T LOCK x 20’
41-COLOR-438 (4 Pcs.)
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

BERTHA HV® MALE T LOCK x 20’
41-COLOR-437 (4 Pcs.)
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

BERTHA HV® HD™ CENTERMATE w/o RODS x 20’
41-COLOR-439
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

BERTHA HV® HD™ CENTERMATE WITH RODS x 20’
41-COLOR-435
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

BERTHA HV® HD™ INSERT x 20’
41-COLOR-436
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
Mates with BERTHA HV® HD™ Centermates
**BERTHA HV® ACCORDION SHUTTER - BLADES 1 & 2**  
Code Approvals: FBC (non-HVHZ), FBC (HVHZ), TDI, IBC/IRC

<table>
<thead>
<tr>
<th><strong>BERTHA HV® BLADE #1</strong></th>
<th><strong>BERTHA HV® BLADE #2</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>41-COLOR-400  x 14' 6&quot;  (10 Pcs/Sub)</td>
<td>41-COLOR-406  x 16' 6&quot;  (10 Pcs/Sub)</td>
</tr>
<tr>
<td>41-COLOR-405  x 16' 6&quot;  (120 Pcs/Master)</td>
<td>41-COLOR-411  x 18&quot;  (120 Pcs/Master)</td>
</tr>
<tr>
<td>41-COLOR-410  x 18&quot;</td>
<td></td>
</tr>
</tbody>
</table>

*Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)*

---

<table>
<thead>
<tr>
<th><strong>BERTHA HV® UNIVERSAL FLOATER</strong></th>
<th><strong>TRACK FELT ROLL x 2000’ (.320/.270)</strong></th>
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</thead>
<tbody>
<tr>
<td>41-COLOR-450  x 18&quot;  (10 Pcs/Sub)</td>
<td>41-HV-320  Black Felt Roll</td>
</tr>
</tbody>
</table>

*Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)*

---

<table>
<thead>
<tr>
<th><strong>BERTHA HV® CEILING HEADER #1 x 20’</strong></th>
<th><strong>BERTHA HV® 3/8” BUILD OUT HEADER #1 x 20’</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>41-COLOR-424  (4 Pcs.)</td>
<td>41-COLOR-425  (4 Pcs.)</td>
</tr>
</tbody>
</table>

*Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)*  
Felt: 41-HV-320

---

<table>
<thead>
<tr>
<th><strong>BERTHA HV® 1” BUILD OUT HEADER #1 x 20’</strong></th>
<th><strong>BERTHA HV® 2” BUILD OUT HEADER #1 x 20’</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>41-COLOR-426  (4 Pcs.)</td>
<td>41-COLOR-433  (4 Pcs.)</td>
</tr>
</tbody>
</table>

*Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)*  
Felt: 41-HV-320

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**Hurricane 12**

**Eastern Metal Supply**  
Quality Shapes In Aluminum

**EMS FL**  
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(561) 588-4780 - fax

**EMS NC**  
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(704) 391-2267 - fax

**EMS TX**  
1-800-996-6061  
(281) 656-2297 - fax

**EMS MO**  
1-888-822-6061  
(314) 344-3349 - fax

**Additional Locations:** West Palm Beach & Lakeland, FL; Newark, DE and Birmingham, AL

**website:** www.EasternMetal.com  
**e-mail:** info@EasternMetal.com  
**version:** 08/16/16
<table>
<thead>
<tr>
<th>Product Description</th>
<th>Code</th>
<th>Quantity</th>
<th>Colors Available</th>
<th>Felt Code</th>
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</thead>
<tbody>
<tr>
<td><strong>BERTHA HV® HD CEILING HEADER #2 x 20’</strong></td>
<td>430</td>
<td>4</td>
<td>White, Ivory, Bronze, Beige</td>
<td>430</td>
</tr>
<tr>
<td><strong>BERTHA HV® HD 3/8” BUILD OUT HEADER #2 x 20’</strong></td>
<td>431</td>
<td>4</td>
<td>White, Ivory, Bronze, Beige</td>
<td>431</td>
</tr>
<tr>
<td><strong>BERTHA HV® HD 1” BUILD OUT HEADER #2 x 20’</strong></td>
<td>432</td>
<td>4</td>
<td>White, Ivory, Bronze, Beige</td>
<td>432</td>
</tr>
<tr>
<td><strong>BERTHA HV® 3/8” DIRECT MOUNT STARTER x 20’</strong></td>
<td>427</td>
<td>4</td>
<td>White, Ivory, Bronze, Beige</td>
<td>427</td>
</tr>
<tr>
<td><strong>BERTHA HV® 1” DIRECT MOUNT STARTER x 20’</strong></td>
<td>428</td>
<td>6</td>
<td>White, Ivory, Bronze, Beige</td>
<td>428</td>
</tr>
<tr>
<td><strong>BERTHA HV® 2” DIRECT MOUNT STARTER x 20’</strong></td>
<td>434</td>
<td>6</td>
<td>White, Ivory, Bronze, Beige</td>
<td>434</td>
</tr>
<tr>
<td><strong>BERTHA HV® 90/180 STARTER x 20’</strong></td>
<td>415</td>
<td>14</td>
<td>White, Ivory, Bronze, Beige</td>
<td>415</td>
</tr>
</tbody>
</table>

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**Version:** 08/16/16
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<th><strong>BERTHA HV® SILL ADAPTOR W/LIP x 20’</strong></th>
<th><strong>BERTHA HV® WALKOVER TRACK x 20’</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>x 20’</td>
<td>90-COLOR-012 (6 Pcs.)</td>
<td>41-COLOR-440 (6 Pcs.)</td>
</tr>
<tr>
<td>41-COLOR-423 (6 Pcs.)</td>
<td>Available in White (WH), Ivory (IV),</td>
<td>Available in White (WH), Ivory (IV),</td>
</tr>
<tr>
<td></td>
<td>Bronze (MB) and Beige (BG)</td>
<td>Bronze (MB) and Beige (BG)</td>
</tr>
<tr>
<td>Felt: 41-HV-320</td>
<td></td>
<td>Felt: 41-HV-320</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>BERTHA HV® ANODIZED TRENCH TRACK x 20’</strong></th>
<th><strong>BERTHA HV® CORNER CENTERMATE #3 X 20’</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>41-63-437 Silver Anodized</td>
<td>41-COLOR-429 (6 Pcs.)</td>
</tr>
<tr>
<td>Felt: 41-HV-320</td>
<td>Available in White (WH), Ivory (IV),</td>
</tr>
<tr>
<td></td>
<td>Bronze (MB) and Beige (BG)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>BERTHA HV® CENTERMATE #1 X 20’</strong></th>
<th><strong>BERTHA HV® FLOATING CENTERMATE #2 X 20’</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>41-COLOR-421 (6 Pcs.) Self Mating</td>
<td>41-COLOR-422 (4 Pcs.)</td>
</tr>
<tr>
<td>Available in White (WH), Ivory (IV),</td>
<td>Available in White (WH), Ivory (IV),</td>
</tr>
<tr>
<td>Bronze (MB) and Beige (BG)</td>
<td>Bronze (MB) and Beige (BG)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>BERTHA HV® FEMALE T LOCK x 20’</strong></th>
<th><strong>BERTHA HV® MALE T LOCK x 20’</strong></th>
<th><strong>BERTHA HV® J-CLIP</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>41-COLOR-438 (4 Pcs.)</td>
<td>41-COLOR-437 (4 Pcs.)</td>
<td>52-63-4159F</td>
</tr>
<tr>
<td>Available in White (WH), Ivory (IV),</td>
<td>Available in White (WH), Ivory (IV),</td>
<td>for T-Handle Lock</td>
</tr>
<tr>
<td>Bronze (MB) and Beige (BG)</td>
<td>Bronze (MB) and Beige (BG)</td>
<td>MF with pretreat; 4” x 2.75” x .125”</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1/4” hole</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100 pc/box</td>
</tr>
</tbody>
</table>

**BERTHA HV® ACCORDION SHUTTER - BLADES 1 & 2**

**Code Approvals:** FBC (non-HVHZ), FBC (HVHZ), TDI, IBC/IRC

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Additional Locations: West Palm Beach & Lakeland, FL; Newark, DE and Birmingham, AL

**website:** www.EasternMetal.com   **e-mail:** info@EasternMetal.com  **version:** 08/16/16
BERTHA HV® HD™ CENTERMATE WITHOUT RODS x 20’
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

BERTHA HV® HD™ CENTERMATE WITH RODS x 20’
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

BERTHA HV® RAINGUARD x 17’
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

BERTHA HV® BUILD-OUT ANGLE x 20’
2 x 5 x .190 x 20’ With Inside Radius
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

BERTHA HV® BUILD-OUT ANGLE x 20’
2-1/2 x 7 x .190 x 20’ With Inside Radius
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

BERTHA HV® VINYL INSERTS
Mates with Walkover Track 41-COLOR-440
41-WH-Insert2 White x 8’
41-IV-Insert2 Ivory x 8’
41-MB-Insert2 Bronze x 8’
41-BG-Insert2 Beige x 8’
41-BK-Insert Black x 12’

BERTHA HV® COMBO BLADE LABEL
LABEL-3 (250 per Roll)

Warning:
During periods of hurricane warnings, homeowner, tenant or others must properly close all BERTHA HV® & HD centermates and engage or lock all BERTHA HV® & HD locks.

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<table>
<thead>
<tr>
<th><strong>HV® WINDOW PUNCH</strong></th>
<th><strong>HV® WINDOW HAND TOOL</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECIAL ORDER</td>
<td>HVPUNCH</td>
</tr>
</tbody>
</table>

**BERTHA HV® ACCORDION WINDOW**

| 41-HV-WINDOW | Patent Pending |

**3 HOLES - HV® BLADE # 1 X 6’**

- Punched Window 3 Holes
- 41-COLOR-72P3
- Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
- 3” Diameter Viewports on Blade (3 each)
- 30-1/4” End of Blade to centerline of first opening
- Spacing @ 5-3/4” On Center

---

**3 HOLES - HV® BLADE # 1 X 8’**

- Punched Window 3 Holes
- 41-COLOR-96P3
- Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
- 3” Diameter Viewports on Blade (3 each)
- 42-1/2” End of Blade to centerline of first opening
- Spacing @ 5-3/4” On Center

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**5 HOLES - HV® BLADE # 1 X 8’**

- Punched Window 5 Holes
- 41-COLOR-96P5
- Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
- 3” Diameter Viewports on Blade (5 each)
- 36-1/2” End of Blade to centerline of first opening
- Spacing @ 5-3/4” On Center

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**HVPUNCH-1**

- Top Row Components Left to Right: Base Die, 3/4” Socket, 3/4” Metal & Teflon Washers, 3/4” Compression Bolt
- Center Row Components Left to Right: Slug Knockout Tool, HV Hand Tool,
- Bottom Row Components Left to Right: Cutting Die w/ Thrust Bearing, 1” Hole Saw
- Far right pic: HVPUNCH-1 in case

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**Additional Locations:** West Palm Beach & Lakeland, FL; Newark, DE and Birmingham, AL

**website:** www.EasternMetal.com  **e-mail:** info@EasternMetal.com  **version:** 08/16/16
BERTHA HV® ACCORDION SHUTTER SAMPLES

BERTHA HV® ACCORDION KIT

HV-KIT
Includes Mini Sample;
Boxed 6” HV Blade 1 Components

SPECIAL ORDER HV-KIT3
Includes Mini Sample;
Boxed 6” HV Blade 3 Components

BERTHA HV® “HEAVY DUTY” CENTERMATE SAMPLE

HD-SAMPLE 17” x 30”
Top Track:
1” Build-Out Header
Bottom Track:
Walkover
Centermate:
“HD” Centermate

BERTHA HV® CENTERMATE SAMPLE

HV-SAMPLE 17” x 30”
Top Track:
1” Build-Out Header
Bottom Track:
Walkover
Centermate:
BERTHA HV® Centermate

BERTHA HV® “T-LOCK” CENTERMATE SAMPLE

HT-SAMPLE 17” x 30”
Top Track:
1” Build-Out Header
Bottom Track:
Walkover
Centermate:
“T Lock” Centermate

BERTHA HV® ACCORDION SHUTTER RADIUS TRACK

HV ® Accordion Shutter Radius Track

IN STOCK - HD Tracks Ceiling/Ceiling
52-COLOR-145 (Inside/HD) 45° Color*
52-WH-190 (Inside/HD) 90° White
52-MB-190 (Inside/HD) 90° Bronze

*S available in White (WH), Ivory (IV), Beige (BG) and Bronze (MB)

Ideal for Large Balconies or Bay Windows
Covered under US Patents 5458179 and 6779585

SPECIAL ORDER - Call for more information

Custom Sizes & Lengths are Also Available
Available for HD™ Tracks and SHD™ Tracks (High Rise)

<table>
<thead>
<tr>
<th>Track</th>
<th>Radius</th>
<th>HD Tracks Ceiling/Ceiling</th>
<th>Ceiling/Slider/Adaptor</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD</td>
<td>Outside 22.5°</td>
<td>52-COLOR-122</td>
<td>52-COLOR-522</td>
</tr>
<tr>
<td>HD</td>
<td>Outside 30°</td>
<td>52-COLOR-130</td>
<td>52-COLOR-530</td>
</tr>
<tr>
<td>HD</td>
<td>Outside 45°</td>
<td>52-COLOR-145</td>
<td>52-COLOR-545</td>
</tr>
<tr>
<td>HD</td>
<td>Outside 60°</td>
<td>52-COLOR-160</td>
<td>52-COLOR-560</td>
</tr>
<tr>
<td>HD</td>
<td>Outside 90°</td>
<td>52-COLOR-190</td>
<td>52-COLOR-590</td>
</tr>
<tr>
<td>HD</td>
<td>Outside 22.5°</td>
<td>52-COLOR-222</td>
<td>52-COLOR-622</td>
</tr>
<tr>
<td>HD</td>
<td>Outside 30°</td>
<td>52-COLOR-230</td>
<td>52-COLOR-630</td>
</tr>
<tr>
<td>HD</td>
<td>Outside 45°</td>
<td>52-COLOR-245</td>
<td>52-COLOR-645</td>
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<tr>
<td>HD</td>
<td>Outside 60°</td>
<td>52-COLOR-260</td>
<td>52-COLOR-660</td>
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<tr>
<td>HD</td>
<td>Outside 90°</td>
<td>52-COLOR-290</td>
<td>52-COLOR-690</td>
</tr>
<tr>
<td>SHD</td>
<td>Inside 22.5°</td>
<td>52-COLOR-322</td>
<td>52-COLOR-722</td>
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<td>SHD</td>
<td>Inside 30°</td>
<td>52-COLOR-330</td>
<td>52-COLOR-730</td>
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<tr>
<td>SHD</td>
<td>Inside 45°</td>
<td>52-COLOR-345</td>
<td>52-COLOR-760</td>
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<td>SHD</td>
<td>Inside 60°</td>
<td>52-COLOR-360</td>
<td>52-COLOR-722</td>
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<tr>
<td>SHD</td>
<td>Inside 90°</td>
<td>52-COLOR-390</td>
<td>52-COLOR-730</td>
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<tr>
<td>SHD</td>
<td>Outside 22.5°</td>
<td>52-COLOR-422</td>
<td>52-COLOR-822</td>
</tr>
<tr>
<td>SHD</td>
<td>Outside 30°</td>
<td>52-COLOR-430</td>
<td>52-COLOR-830</td>
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<tr>
<td>SHD</td>
<td>Outside 45°</td>
<td>52-COLOR-445</td>
<td>52-COLOR-845</td>
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<tr>
<td>SHD</td>
<td>Outside 60°</td>
<td>52-COLOR-460</td>
<td>52-COLOR-860</td>
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<tr>
<td>SHD</td>
<td>Outside 90°</td>
<td>52-COLOR-490</td>
<td>52-COLOR-890</td>
</tr>
</tbody>
</table>

Price per Set 2 pc set - Sold in sets only 3 pc set - Sold in sets only

Additional Locations: West Palm Beach & Lakeland, FL; Newark, DE and Birmingham, AL

website: www.EasternMetal.com e-mail: info@EasternMetal.com version: 07/10/18
## HV Accordion Screws
- **14D275TUW4/HV**: 14 x 2-3/4" Long
- **14D175TUW4/HV**: 14 x 1-3/4" Long
- **10N275TUW4/HV**: 10 x 2-3/4" Long

## HV Bushings
- **boxes of 100**
- **/HVLONG1**: Long White
- **/HVLONG2**: Long Black
- **/HVSHORT1**: Short White
- **/HVSHORT2**: Short Black
- **/HVHAT1**: Hat White Only

## HV Wheel Carriage
- **/WC10**

## HV Push Button Lock
- **/LOHVBE**: Beige
- **/LOHVBZ**: Bronze
- **/LOHVIV**: Ivory
- **/LOHVWH**: White

## HV Egress Lock
- **/LOHVTT/WH**: White
- **/LOHVTT/BZ**: Bronze
- **/LOHVTT/BE**: Beige
- **/LOHVTT/IV**: Ivory
- **/LOHVTT** (cylinder only)

## HV Saltwater Lock & HV Thumbscrews
- **/HVPLATE**: Stainless Steel Plate
- **/31C100MTPB/HV**: Black Thumbscrew
- **/31C100MTPW/HV**: White Thumbscrew

## HD Lock
- **/LOHRHB**: Hook Bolt Mortise Lock –SS
- **/LOBRCL**: Key cylinder – Brass/SS
- **/LOBRJT**: Thumb turn cylinder – brass/SS

## HV T-Handle Lock with J-Clip
- **/LOWH**: White
- **/LOBZ**: Bronze
- **/LOIV**: Ivory
- **/LOBE**: Beige

## HV Locking Pins
- Please specify ¼-20 or 3/8-16 thumbscrew. Also specify Stainless Steel or Nylon thumbscrew

## HV Snap Track
- **/ECSC**

## HV Holdback Clip
- **/HVCLIPBZ**: Black
- **/HVCLIPWH**: White

## HV 3/8 X ¾ Acetel® Thumb Screw
- **/37C75MTSN**: White
- **/37C75MTSNB**: Black
- Please specify white or black

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**Quality Shapes In Aluminum**

**EMS FL**
1-800-432-2204
(561) 588-4780 - fax

**EMS NC**
1-800-343-8154
(704) 391-2267 - fax

**EMS TX**
1-800-996-6061
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