BERTHA HV® ACCORDION SHUTTER - BLADES 1 & 2
Code Approvals: FBC (non-HVHZ), FBC (HVHZ), IBC/IRC

**BERTHA HV® BLADE #1**
- 41-COLOR-400 x 14' 6" (10 Pcs/Sub)
- 41-COLOR-405 x 16' 6" (120 Pcs/Master)
- 41-COLOR-410 x 18'
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

**BERTHA HV® BLADE #2**
- 41-COLOR-406 x 16' 6" (10 Pcs/Sub)
- 41-COLOR-411 x 18' (120 Pcs/Master)
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

**BERTHA HV® UNIVERSAL FLOATER**
- 41-COLOR-450 x 18' (10 Pcs/Sub)
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

**BERTHA HV® CEILING HEADER #1 x 20’**
- 41-COLOR-424 (4 Pcs.)
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
Felt: 41-HV-320

**BERTHA HV® 3/8” BUILD OUT HEADER #1 x 20’**
- 41-COLOR-425 (4 Pcs.)
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
Felt: 41-HV-320

**BERTHA HV® 1” BUILD OUT HEADER #1 x 20’**
- 41-COLOR-426 (4 Pcs.)
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
Felt: 41-HV-320

**BERTHA HV® 2” BUILD OUT HEADER #1 x 20’**
- 41-COLOR-433
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
Felt: 41-HV-320

Covered under US Patents #5,458,179; #6,779,582

**ACCORDION TRACK FELT (.320/.270)**
- 41-HV-320 Black Felt Roll x 2000’

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**BERTHA HV® 1” BUILD OUT HEADER #1 x 20’**
- 41-COLOR-426 (4 Pcs.)
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
Felt: 41-HV-320

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**BERTHA HV® 2” BUILD OUT HEADER #1 x 20’**
- 41-COLOR-433
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
Felt: 41-HV-320

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**Hurricane 09**

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**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 (281) 656-2297 - fax
**EMS MO** 1-888-822-6061 (314) 344-3349 - fax

**Additional Locations:** West Palm Beach & Lakeland, FL; Newark, DE; Akron, OH; Van Buren, AR; Atlanta, GA and Dallas, TX

**website:** www.EasternMetal.com  **e-mail:** info@EasternMetal.com  **version:** 03/16/20
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<tr>
<td>BERTHA HV® HD CEILING HEADER</td>
<td>41-COLOR-430</td>
<td>4</td>
<td>White (WH), Ivory (IV), Bronze (MB) and Beige (BG)</td>
<td>41-HV-320</td>
</tr>
<tr>
<td>BERTHA HV® HD 3/8” BUILD OUT HEADER</td>
<td>41-COLOR-431</td>
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<td>White (WH), Ivory (IV), Bronze (MB) and Beige (BG)</td>
<td>41-HV-320</td>
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<tr>
<td>BERTHA HV® HD 1” BUILD OUT HEADER</td>
<td>41-COLOR-432</td>
<td>4</td>
<td>White (WH), Ivory (IV), Bronze (MB) and Beige (BG)</td>
<td>41-HV-320</td>
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<tr>
<td>BERTHA HV® HD 1” DIRECT MOUNT STARTER</td>
<td>41-COLOR-427</td>
<td>4</td>
<td>White (WH), Ivory (IV), Bronze (MB) and Beige (BG)</td>
<td>41-HV-320</td>
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<tr>
<td>BERTHA HV® SHD™ CEILING HEADER</td>
<td>41-COLOR-470</td>
<td>10</td>
<td>White (WH), Ivory (IV), Bronze (MB) and Beige (BG)</td>
<td>41-HV-320</td>
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<tr>
<td>BERTHA HV® 2” DIRECT MOUNT STARTER</td>
<td>41-COLOR-434</td>
<td>6</td>
<td>White (WH), Ivory (IV), Bronze (MB) and Beige (BG)</td>
<td>41-HV-320</td>
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<tr>
<td>BERTHA HV® 90/180 STARTER</td>
<td>41-COLOR-415</td>
<td>14</td>
<td>White (WH), Ivory (IV), Bronze (MB) and Beige (BG)</td>
<td>41-HV-320</td>
</tr>
</tbody>
</table>

**Hurricane 10**

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

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1-800-343-8154
(704) 391-2267 - fax

**EMS TX**
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(281) 656-2297 - fax

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

**Additional Locations:** West Palm Beach & Lakeland, FL; Newark, DE; Akron, OH, Van Buren, AR; Atlanta, GA and Dallas, TX

**Website:** www.EasternMetal.com
**E-mail:** info@EasternMetal.com

**Version:** 03/06/19
<table>
<thead>
<tr>
<th>BERTHA HV® ADJUSTABLE TRACK w/FELT x 20'</th>
<th>BERTHA HV® SILL ADAPTOR W/LIP x 20'</th>
<th>BERTHA HV® WALKOVER TRACK x 20'</th>
</tr>
</thead>
<tbody>
<tr>
<td>41-COLOR-423 (6 Pcs.)</td>
<td>90-COLOR-012 (6 Pcs.)</td>
<td>41-COLOR-440 (6 Pcs.)</td>
</tr>
<tr>
<td>Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)</td>
<td>Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)</td>
<td>Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)</td>
</tr>
<tr>
<td>Felt: 41-HV-320</td>
<td></td>
<td>Felt: 41-HV-320</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Accepts Vinyl Inserts (p15)</td>
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</tbody>
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<table>
<thead>
<tr>
<th>BERTHA HV® ANODIZED TRENCH TRACK x 20'</th>
<th>BERTHA HV® CORNER CENTERMATE #3 X 20'</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), Bronze (MB) and Beige (BG)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>BERTHA HV® FEMALE T LOCK x 20’</th>
<th>BERTHA HV® MALE T LOCK x 20’</th>
<th>BERTHA HV® J-CLIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>41-COLOR-438 (4 Pcs.)</td>
<td>41-COLOR-437 (4 Pcs.)</td>
<td>52-63-4159F (for T-Handle Lock)</td>
</tr>
<tr>
<td>Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)</td>
<td>Available in White (WH), Ivory (IV), 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>
</tbody>
</table>

| Hurricane 11                          |                                        | 100 pc/box                         |

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BERTHA HV® ACCORDION SHUTTER - BLADES 1 & 2

BERTHA HV® HD™ CENTERMATE
WITHOUT 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)

BERTHA HV® RAINGUARD x 17’
41-COLOR-460 (10 Pcs.)
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
11-COLOR-413 6063-T6
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
11-COLOR-420 6063-T6
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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HV® WINDOW PUNCH
SPECIAL ORDER
HVPUNCH

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

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

HVPUNCH-1 (PIC at Right)
Top Row Components Left to Right:
Hex Bit Socket 3/8 Sq Drive with 1/4” Hex to 3/8 Sq Drive
2” long / Base Die / Grade 8 Hex Screw & Washer

Center Row Components Left to Right:
Slug Knockout Tool / HV Window Hand Tool

Bottom Row Components Left to Right:
Cutting Die with Thrust Bearing / 1” Hole Saw

Additional Locations: West Palm Beach & Lakeland, FL; Newark, DE; Akron, OH, Van Buren, AR; Atlanta, GA and Dallas, TX

website: www.EasternMetal.com e-mail: info@EasternMetal.com version: 03/20/19
### HV® ESSENTIAL ACCORDION SHUTTER

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

#### BERTHA HV™ BLADE #1
- 41-COLOR-400 x 14' 6"
- 41-COLOR-405 x 16' 6"
- 41-COLOR-410 x 18'

*(10 Pcs/Sub; 120 Pcs/Master)*

#### HV® Flat Center Mate x 20’
- 41-COLOR-420

#### HV® Essential Ceiling Header x 20’
- 41-COLOR-478
  - Felt: 41-HV-320

#### HV® Essential 3/8" Build Out x 20’
- 41-COLOR-480
  - Felt: 41-HV-320

#### HV® Essential 1” Build Out x 20’
- 41-COLOR-482
  - Felt: 41-HV-320

#### HV® Essential 2” Build Out x 20’
- 41-COLOR-484
  - Felt: 41-HV-320

#### HV® Essential 3/8” Direct Mount x 20’
- 41-COLOR-472

#### HV® Essential 1” Direct Mount x 20’
- 41-COLOR-474

#### HV® Essential 2” Direct Mount x 20’
- 41-COLOR-476

#### HV® Essential .080 Adjustable Adapter With Lip x 20’
- 41-COLOR-486

#### HV® Essential Adjustable Track With Felt x 20’
- 41-COLOR-488

**COMING SOON**

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

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**Hurricane 15**

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

---

**Additional Locations:** West Palm Beach & Lakeland, FL; Newark, DE; Akron, OH; Van Buren, AR; Atlanta, GA and Dallas, TX

**website:** www.EasternMetal.com **e-mail:** info@EasternMetal.com **version:** 05/21/20
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® “T-LOCK” CENTERMATE SAMPLE
HT-SAMPLE 17” x 30”
Top Track:
1” Build-Out Header
Bottom Track:
Walkover
Centermate:
“T Lock” Centermate

BERTHA HV® “T-LOCK” CENTERMATE SAMPLE
SPECIAL ORDER 17” x 30”
Top Track:
1” Build-Out Header
Bottom Track:
Walkover
Centermate:
“T Lock” 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® CENTERMATE SAMPLE
HV-SAMPLE 17” x 30”
Top Track:
1” Build-Out Header
Bottom Track:
Walkover
Centermate:
BERTHA HV® 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

*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)

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

Storm 16

EMS FL 1-800-432-2204
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 EMS NC 1-800-343-8154
(704) 391-2267 - fax

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

 EMS MO 1-888-822-6061
(314) 344-3349 - fax
### 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
- **LOHV/WH**: White
- **LOHV/BZ**: Bronze
- **LOHV/BE**: Beige
- **LOHV/IV**: Ivory

### 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

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

### HV T-Handle Lock with J-Clip
- **LO/WH**: White
- **LO/BZ**: Bronze
- **LO/BE**: Beige
- **LO/IV**: Ivory

### HV Locking Pins
Please specify 1/4-20 or 3/8-16 thumbscrew. Also specify Stainless Steel or Nylon thumbscrew

### HV Snap Track ECSC

### HV Holdback Clip
- **HVCLIP/BZ**: Black
- **HVCLIP/WH**: White
- **HVCLIPFC/WH**: White (for Flat Centermates)
- **HVCLIPFC/BK**: Black (for Flat Centermates)
- **HVCLIPFC/IVBE**: Ivory Beige (for Flat Centermates)

### HV 3/8 X ¾ Acetel® Thumb Screw
- **37C75MTSN**: White
- **37C75MTSN/B**: Black

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**Hurricane 17**