**BERTHA HV® ACCORDION SHUTTER - BLADE 3**

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

---

### BERTHA HV® BLADE #3

- **41-COLOR-4000** x 14’ 6” (10 Pcs/Sub)
- **41-COLOR-4055** x 16’ 6” (120 Pcs/Master)
- **41-COLOR-4100** x 18’

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

### Additional Locations

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

---

**Copyright 2007-2010 Eastern Metal Supply, Inc. HVTM, BERTHA HV®, DACROSHIELD® are all trademarks of Eastern Metal Supply, Inc. ASSA® is a trademark of the American Shutter Systems Association. All rights reserved.**
BERTHA HV® ADJ TRACK
w/FELT x 20'
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
Felt: 41-HV-320

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

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

BERTHA HV® CENTERMATE
Self Mating
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

BERTHA HV® FLOATING CENTERMATE #2 x 20'
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

BERTHA HV® FEMALE T LOCK x 20'
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

BERTHA HV® MALE T LOCK x 20'
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

BERTHA HV® HD™ CENTERMATE w/o 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® HD™ INSERT x 20'
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

#### 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)*

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

#### 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*

---

**Hurricane 12**

---

**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 and Birmingham, AL

**website:** www.EasternMetal.com  
**e-mail:** info@EasternMetal.com  
**version:** 08/16/16
**BERTHA HV® ACCORDION SHUTTER - BLADES 1 & 2**

**BERTHA HV® HD CEILING**
HEADER #2 x 20’
41-COLOR-430  (4 Pcs.)
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
Felt: 41-HV-320

**BERTHA HV® HD 1” BUILD OUT**
HEADER #2 x 20’
41-COLOR-432  (4 Pcs.)
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
Felt: 41-HV-320

**BERTHA HV® 3/8” DIRECT MOUNT**
STARTER x 20’
41-COLOR-427  (4 Pcs.)
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

**BERTHA HV® 2” DIRECT MOUNT**
STARTER x 20’
41-COLOR-434  (6 Pcs.)
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

**BERTHA HV® HD 3/8” BUILD OUT**
HEADER #2 x 20’
41-COLOR-431  (4 Pcs.)
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
Felt: 41-HV-320

**BERTHA HV® SHD™ CEILING HEADER x 20’**
41-COLOR-470  (10 Pcs.)
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
Felt: 41-HV-320

**BERTHA HV® 1” DIRECT MOUNT**
STARTER x 20’
41-COLOR-428  (6 Pcs.)
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

**BERTHA HV® 90/180 STARTER x 20’**
41-COLOR-415  (14 Pcs.)
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

---

**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® 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® SILL ADAPTOR W/LIP x 20’
90-COLOR-012 (6 Pcs.)
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® ANODIZED TRENCH TRACK x 20’
41-63-437 Silver Anodized
Felt: 41-HV-320

BERTHA HV® CORNER CENTERMATE #3 X 20’
41-COLOR-429 (6 Pcs.)
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

BERTHA HV® CENTERMATE #1 X 20’
41-COLOR-421 (6 Pcs.) Self Mating
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® J-CLIP 52-63-4159F for T-Handle Lock
MF with pretreat; 4” x 2.75” x .125”
1/4” hole
100 pc/box

Copyright 2007-2013 Eastern Metal Supply, Inc. HV®, BERTHA HV®, BERTHA®, DACROSHIELD® are all trademarks of Eastern Metal Supply, Inc. ASSA® is a trademark of the American Shutter Systems Association. All rights reserved.
BERTHA HV® ACCORDION SHUTTER - BLADES 1 & 2
Code Approvals: FBC (non-HVHZ), FBC (HVHZ), TDI, IBC/IRC

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® 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.

Copyright 2007-2010 Eastern Metal Supply, Inc. HV/HVZ, BERTHA HV®, BERTHA®, DACROSHIELD® are all trademarks of Eastern Metal Supply, Inc. ASSA® is a trademark of the American Shutter Systems Association. All rights reserved.

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 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:

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

---

**HV® WINDOW PUNCH**

SPECIAL ORDER

HVPUNCH

**HV® WINDOW HAND TOOL**

HV-TOOL

---

**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® “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

*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/Slide/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>
</tr>
<tr>
<td>HD</td>
<td>Outside 60°</td>
<td>52-COLOR-260</td>
<td>52-COLOR-660</td>
</tr>
<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>
</tr>
<tr>
<td>SHD</td>
<td>Inside 30°</td>
<td>52-COLOR-330</td>
<td>52-COLOR-730</td>
</tr>
<tr>
<td>SHD</td>
<td>Inside 45°</td>
<td>52-COLOR-345</td>
<td>52-COLOR-760</td>
</tr>
<tr>
<td>SHD</td>
<td>Inside 60°</td>
<td>52-COLOR-360</td>
<td>52-COLOR-722</td>
</tr>
<tr>
<td>SHD</td>
<td>Inside 90°</td>
<td>52-COLOR-390</td>
<td>52-COLOR-730</td>
</tr>
<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>
</tr>
<tr>
<td>SHD</td>
<td>Outside 45°</td>
<td>52-COLOR-445</td>
<td>52-COLOR-845</td>
</tr>
<tr>
<td>SHD</td>
<td>Outside 60°</td>
<td>52-COLOR-460</td>
<td>52-COLOR-860</td>
</tr>
<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

---

**Hurricane 17**

---

Eastern Metal Supply
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
(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: 07/10/18
<table>
<thead>
<tr>
<th>BERTHA HV® ACCORDION COMPONENTS AVAILABLE FROM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HV Accordion Screws</strong></td>
</tr>
<tr>
<td>14D275TUW4/HV  14 x 2-3/4” Long</td>
</tr>
<tr>
<td>14D175TUW4/HV  14 x 1-3/4” Long</td>
</tr>
<tr>
<td>10N275TUW4/HV  10 x 2-3/4” Long</td>
</tr>
</tbody>
</table>

| **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                                  |
| /LOHBVZ 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                |
| /LOBRWT 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 T-Handle Lock with J-Clip**               |
| /LOWH White                                    |
| /LOBZ Bronze                                   |
| /LOIV Ivory                                    |
| /LOBE Beige                                    |

| **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

Copyright 2007-2010 Eastern Metal Supply, Inc. HVTM, BERTHA HV®, BERTHA®, DACROSHIELD® are all trademarks of Eastern Metal Supply, Inc. ASSA® is a trademark of the American Shutter Systems Association. All rights reserved.