



### **Bertha™ HV™ Accordion Shutters**

#### Product Features & Benefits:

- Durable powder coated paint finish
- Universal components • Blade Options: HV1 & HV2 (Hi-Rise)
- Designed for standard openings
- Direct mount starters for fast installation
- Applications for metal stud, keystone & plywood Install
- Curved and Radius Tracks available
- Multiple locking systems available
- Accordion Window available
- Insurance discounts

#### Specifications:

- Code Approvals: FBC HVHZ; FBC Non-HVHZ, IBC/IRC, TDI, Miami Dade NOA
- Maximum Size: 16' (HV1) & 18' (HV2) high x unlimited width

#### **HV® Essential Accordion Shutter: - NEW!**

- Perfect for residential applications
- Tested and approved: FBC - HVHZ & Non-HVHZ



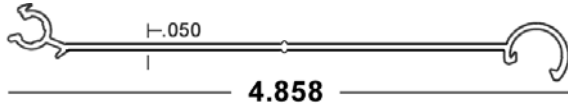
# BERTHA HV® ACCORDION SHUTTER - BLADES 1 & 2

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

## BERTHA HV® BLADE #1

41-COLOR-400 x 14' 6"  
 41-COLOR-405 x 16' 6"  
 41-COLOR-410 x 18'

Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)  
 (10 Pcs/Sub; 120 Pcs/Master)

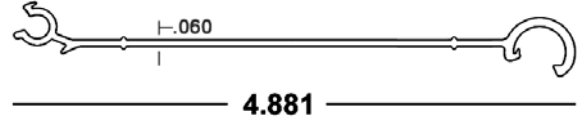


Covered under US Patents #5,458,179; #6,779,582

## BERTHA HV® BLADE #2

41-COLOR-406 x 16' 6"  
 41-COLOR-411 x 18' (Ivory, Bronze & Beige SPECIAL ORDER)

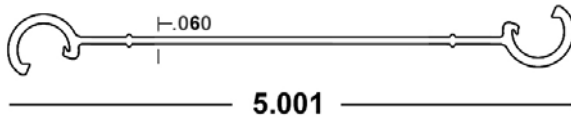
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)  
 (10 Pcs/Sub; 120 Pcs/Master)



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

## BERTHA HV® UNIVERSAL FLOATER x 18'

41-COLOR-450 (Ivory, Bronze & Beige SPECIAL ORDER)



## ACCORDION TRACK FELT (.320/.270)

41-HV-320 Black Felt Roll x 2000'

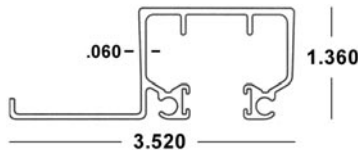


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## BERTHA HV® CEILING HEADER #1 x 20'

41-COLOR-424

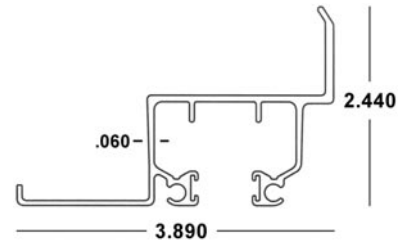
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)  
 (4 Pcs/Sub) Felt: 41-HV-320



## BERTHA HV® 3/8" BUILD OUT HEADER #1 x 20'

41-COLOR-425

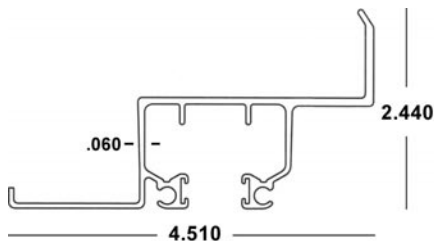
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)  
 (4 Pcs/Sub) Felt: 41-HV-320



## BERTHA HV® 1" BUILD OUT HEADER #1 x 20'

41-COLOR-426

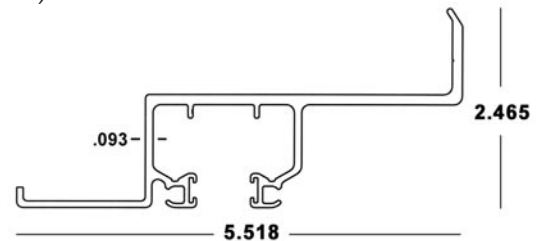
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)  
 (4 Pcs/Sub) Felt: 41-HV-320



## BERTHA HV® 2" BUILD OUT HEADER #1 x 20'

41-COLOR-433

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



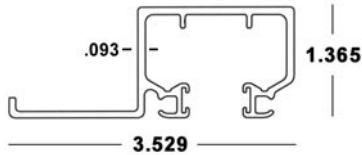
# BERTHA HV® ACCORDION SHUTTER - BLADES 1 & 2

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

## BERTHA HV® HD CEILING HEADER #2 x 20'

41-COLOR-430

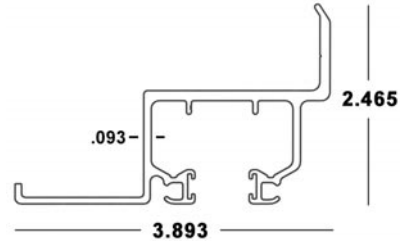
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)  
(4 Pcs/Sub) Felt: 41-HV-320



## BERTHA HV® HD 3/8" BUILD OUT HEADER #2 x 20'

41-COLOR-431

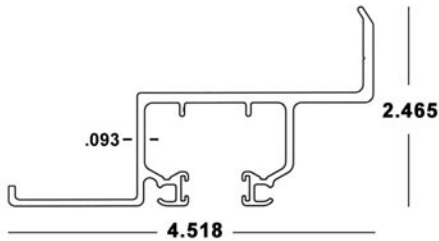
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)  
(4 Pcs/Sub) Felt: 41-HV-320



## BERTHA HV® HD 1" BUILD OUT HEADER #2 x 20'

41-COLOR-432

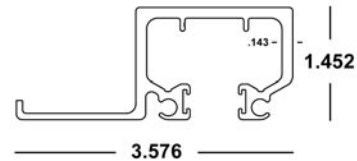
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)  
(4 Pcs/Sub) Felt: 41-HV-320



## BERTHA HV® SHD™ CEILING HEADER x 20'

41-WH-470 White (10 Pcs/Sub)

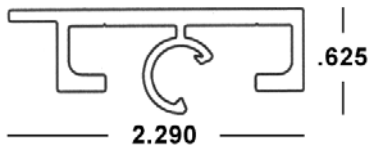
Felt: 41-HV-320



## BERTHA HV® 3/8" DIRECT MOUNT STARTER x 20'

41-COLOR-427

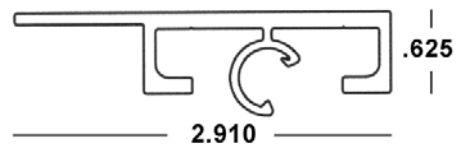
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)  
(4 Pcs/Sub)



## BERTHA HV® 1" DIRECT MOUNT STARTER x 20'

41-COLOR-428

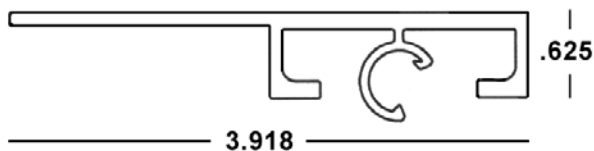
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)  
(6 Pcs/Sub)



## BERTHA HV® 2" DIRECT MOUNT STARTER x 20'

41-COLOR-434

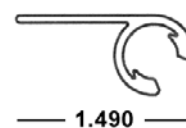
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)  
(6 Pcs/Sub)



## BERTHA HV® 90/180 STARTER x 20'

41-COLOR-415

Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)  
(14 Pcs/Sub)



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**EASTERN METAL SUPPLY**

**SHUTTERS 38**  
04/01/24

[www.easternmetal.com](http://www.easternmetal.com)

FL: 800-432-2204 • NC/DE/GA: 800-343-8154 • TX/LA: 800-996-6061 • MO/OH/IN: 888-822-6061



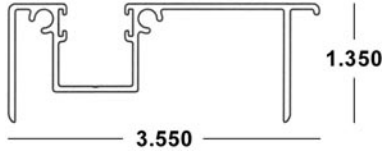
# BERTHA HV® ACCORDION SHUTTER - BLADES 1 & 2

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

## BERTHA HV® ADJUSTABLE TRACK w/FELT x 20'

41-COLOR-423

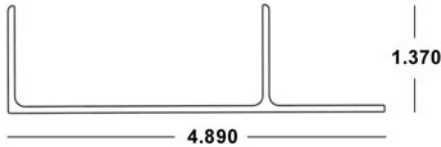
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)  
(6 Pcs/Sub) Felt: 41-HV-320



## BERTHA HV® SILL ADAPTOR W/LIP x 20'

90-COLOR-012

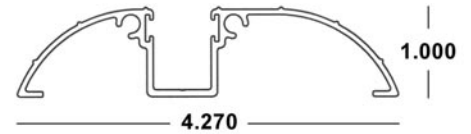
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)  
(6 Pcs/Sub)



## BERTHA HV® WALKOVER TRACK x 20'

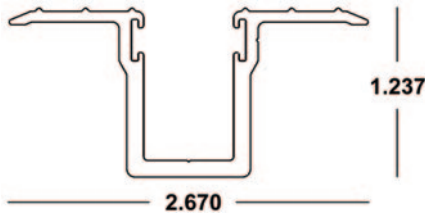
41-COLOR-440

Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)  
(6 Pcs/Sub) Felt: 41-HV-320  
Accepts Vinyl Inserts (p15)



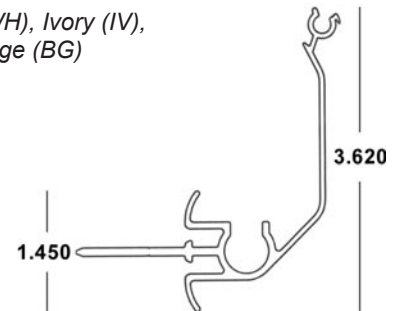
## BERTHA HV® ANODIZED TRENCH TRACK x 20'

41-63-437 Silver Anodized  
Felt: 41-HV-320



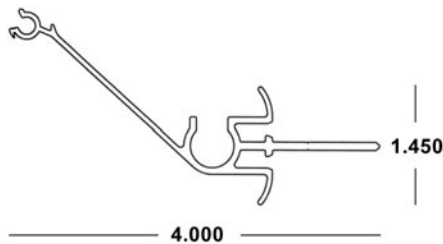
## BERTHA HV® CORNER CENTERMATE #3 X 20'

41-COLOR-429  
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)  
(6 Pcs/Sub)



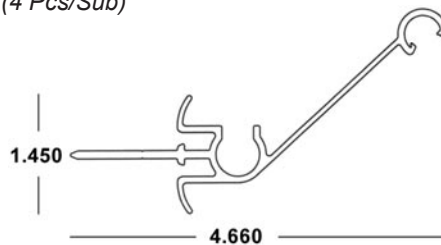
## BERTHA HV® CENTERMATE #1 x 20'

41-COLOR-421 Self Mating  
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)  
(6 Pcs/Sub)



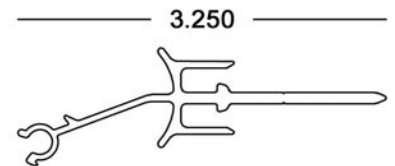
## BERTHA HV® FLOATING CENTERMATE #2 x 20'

41-COLOR-422  
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)  
(4 Pcs/Sub)



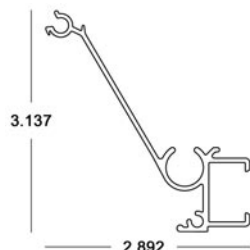
## BERTHA HV® FLAT CENTERMATE x 20'

41-COLOR-420 Self Mating  
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)



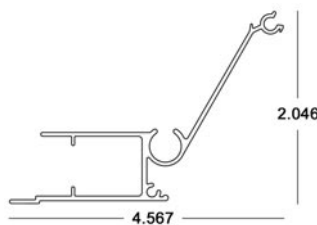
## BERTHA HV® MALE T LOCK x 20'

41-WH-437 White (4 Pcs/Sub)  
Ivory (IV), Bronze (MB) and Beige (BG)  
available as SPECIAL ORDER



## BERTHA HV® FEMALE T LOCK x 20'

41-WH-438 White (4 Pcs/Sub)  
Ivory (IV), Bronze (MB) and Beige (BG)  
available as SPECIAL ORDER



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# BERTHA HV® ACCORDION SHUTTER - BLADES 1 & 2

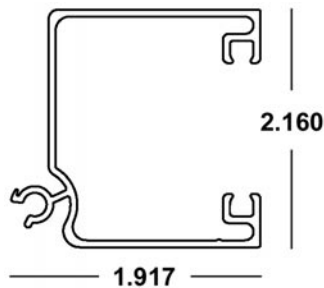
Code Approvals: FBC (non-HVHZ), FBC (HVHZ), IBC/IRC

## BERTHA HV® HD™ CENTERMATE

### WITHOUT RODS x 20'

41-COLOR-439

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

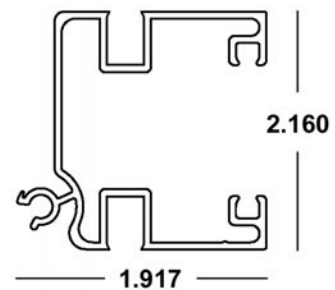


## BERTHA HV® HD™ CENTERMATE

### WITH RODS x 20'

41-COLOR-435

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

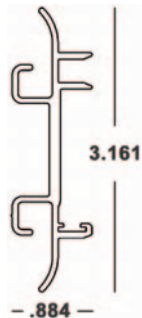


## BERTHA HV® HD™

### INSERT x 20'

41-COLOR-436

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

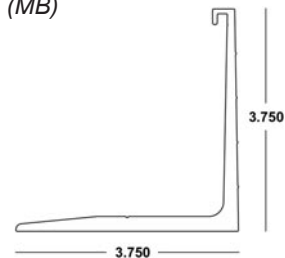


Mates with BERTHA HV® HD™ Centermates

## BERTHA HV® RAINGUARD x 17'

41-COLOR-460 (10 Pcs.)

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

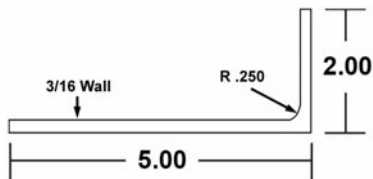


## BERTHA HV® BUILD-OUT ANGLE x 20'

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)

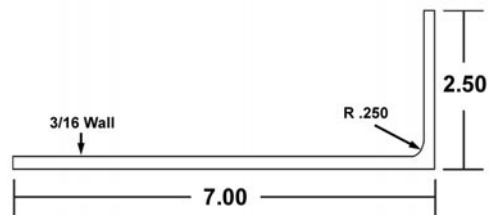


## BERTHA HV® BUILD-OUT ANGLE x 20'

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

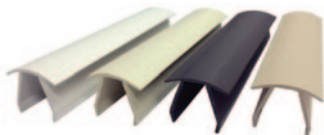
41-WH-Insert2 White x 8'

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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# BERTHA HV® ACCORDION WINDOW

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

## HV® WINDOW PUNCH

SPECIAL ORDER

HVPUNCH



## HV® WINDOW HAND TOOL

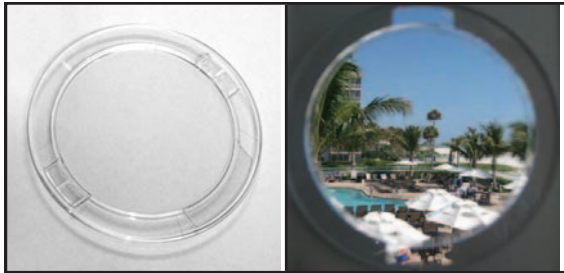
HV-TOOL



## BERTHA HV® ACCORDION WINDOW

41-HV-WINDOW

*Patent Pending*



## 3 HOLES - HV® BLADE # 1 X 8'

Punched Window 3 Holes

SPECIAL ORDER 41-COLOR-72P3

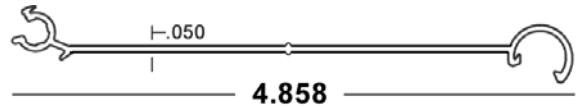
*Contact your Sales Rep for availability*

*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*



## 3 HOLES - HV® BLADE # 1 X 8'

Punched Window 3 Holes

SPECIAL ORDER 41-COLOR-96P3

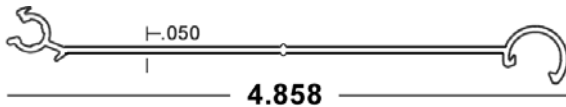
*Contact your Sales Rep for availability*

*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*



## 5 HOLES - HV® BLADE # 1 X 8'

Punched Window 5 Holes

SPECIAL ORDER 41-COLOR-96P5

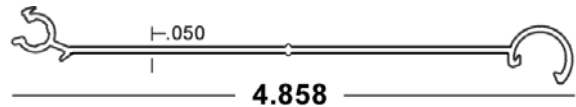
*Contact your Sales Rep for availability*

*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*



## 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



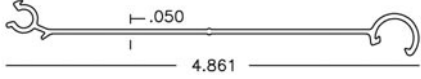
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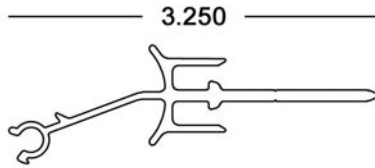
### BERTHA HV™ Blade #1

41-COLOR-400 x 14' 6"  
 41-COLOR-405 x 16' 6"  
 41-COLOR-410 x 18'  
 (10 Pcs/Sub; 120 Pcs/Master)



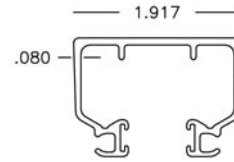
### HV® Flat Center Mate x 20'

41-COLOR-420  
 (6 Pcs/Sub)



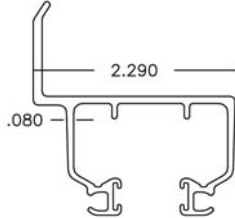
### HV® Essential Ceiling Header x 20'

41-COLOR-478  
 Felt: 41-HV-320



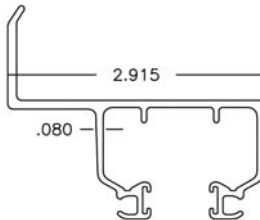
### HV® Essential 3/8" Build Out x 20'

41-COLOR-480  
 Felt: 41-HV-320



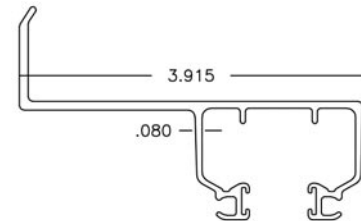
### HV® Essential 1" Build Out x 20'

41-COLOR-482  
 Felt: 41-HV-320



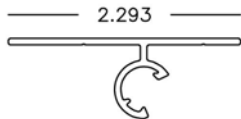
### HV® Essential 2" Build Out x 20'

41-COLOR-484  
 Felt: 41-HV-320



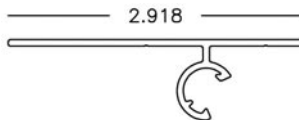
### HV® Essential 3/8" Direct Mount x 20'

41-COLOR-472



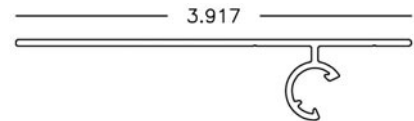
### HV® Essential 1" Direct Mount x 20'

41-COLOR-474



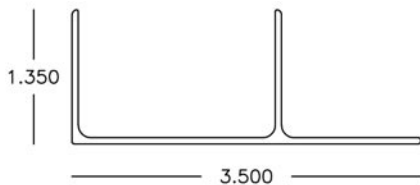
### HV® Essential 2" Direct Mount x 20'

41-COLOR-476



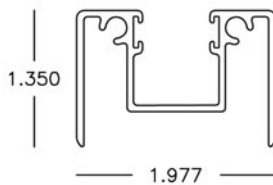
### HV® Essential .080 Adjustable Adapter With Lip x 20'

41-COLOR-486



### HV® Essential Adjustable Track With Felt x 20'

41-COLOR-488



### HV® Holdback Clip

For Flat Centermates  
 41-HV-HBCLIPWH White (shown)  
 41-HV-HBCLIPBL Black

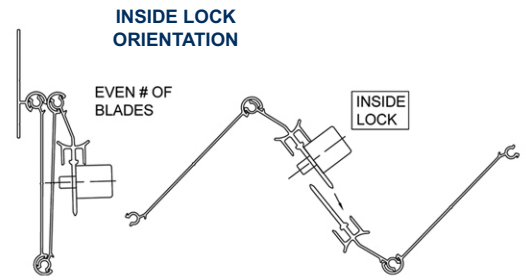
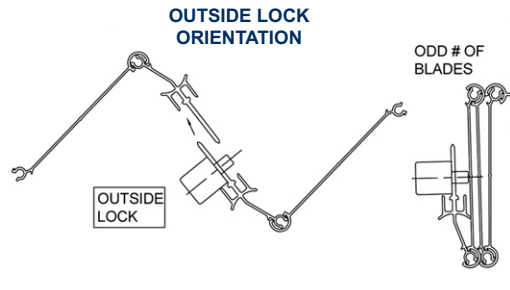
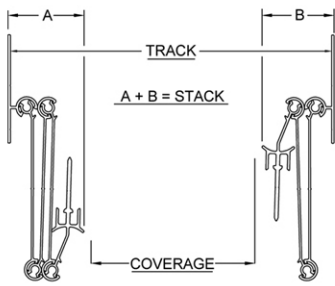


COLOR = Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

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# HV<sup>®</sup> ACCORDION FLAT CENTERMATE STACKING GUIDE



NOTE! COVERAGE DIMENSIONS ARE APPROXIMATELY 1" LESS THAN TRACK MINUS STACK DIMENSIONS

BLADE	COVERAGE	STACK	TRACK
1	3.25	2.75	7.25
3	9.25	3.25	13.75
5	15.00	3.75	20.00
7	21.00	4.50	26.50
9	26.75	5.00	32.75
11	32.50	5.50	39.25
13	38.50	6.00	45.50
15	44.25	6.50	52.00
17	50.25	7.00	58.25
19	56.00	7.50	64.75
21	61.75	8.00	71.00
23	67.75	8.50	77.50
25	73.50	9.00	83.75
27	79.50	9.50	90.25
29	85.25	10.00	96.50
31	91.25	10.75	103.00
33	97.00	11.25	109.25
35	102.75	11.75	115.75
37	108.75	12.25	122.00
39	114.50	12.75	128.50
41	120.50	13.25	134.75
43	126.25	13.75	141.25
45	132.25	14.25	147.50
47	138.00	14.75	154.00
49	143.75	15.25	160.25
51	149.75	15.75	166.75
53	155.50	16.25	173.00
55	161.50	16.75	179.50
57	167.25	17.50	185.75
59	173.00	18.00	192.25
61	179.00	18.50	198.50
63	184.75	19.00	205.00
65	190.75	19.50	211.25
67	196.50	20.00	217.75
69	202.50	20.50	224.00
71	208.25	21.00	230.50

BLADE	COVERAGE	STACK	TRACK
73	214.00	21.50	236.75
75	220.00	22.00	243.25
77	225.75	22.50	249.50
79	231.75	23.00	256.00
81	237.50	23.75	262.25
83	243.50	24.25	268.75
85	249.25	24.75	275.00
87	255.00	25.25	281.50
89	261.00	25.75	287.75
91	266.75	26.25	294.25
93	272.75	26.75	300.50
95	278.50	27.25	307.00
97	284.25	27.75	313.25
99	290.25	28.25	319.75
101	296.00	28.75	326.00
103	302.00	29.25	332.50
105	307.75	29.75	338.75
107	313.75	30.50	345.25
109	319.50	31.00	351.50
111	325.25	31.50	358.00
113	331.25	32.00	364.25
115	337.00	32.50	370.75
117	343.00	33.00	377.00
119	348.75	33.50	383.50
121	354.50	34.00	389.75
123	360.50	34.50	396.25
125	366.25	35.00	402.50
127	372.25	35.50	409.00
129	378.00	36.00	415.25
131	384.00	36.75	421.75
133	389.75	37.25	428.00
139	395.50	37.75	434.50
141	401.50	38.25	440.75
143	407.25	38.75	447.25
145	413.25	39.25	453.50

THESE ARE CALCULATED WIDTHS ONLY  
PLEASE VERIFY ACTUAL WIDTHS! REV 01/08/21

BLADE	COVERAGE	STACK	TRACK
147	419.00	39.75	460.00
149	425.00	40.25	466.25
151	430.75	40.75	472.75
153	436.50	41.25	479.00
155	442.50	41.75	485.50
157	448.25	42.25	491.75
159	454.25	42.75	498.25
161	460.00	43.50	504.50
163	465.75	44.00	511.00
165	471.75	44.50	517.25
167	477.50	45.00	523.75
169	483.50	45.50	530.00
171	489.25	46.00	536.50
173	495.25	46.50	542.75
175	501.00	47.00	549.25
177	506.75	47.50	555.50
179	512.75	48.00	562.00
181	518.50	48.50	568.25
183	524.50	49.00	574.75
185	530.25	49.75	581.00
187	536.25	50.25	587.50
189	542.00	50.75	593.75
191	547.75	51.25	600.25
193	553.75	51.75	606.50
195	559.50	52.25	613.00
197	565.50	52.75	619.25
199	571.25	53.25	625.75
201	577.00	53.75	632.00
203	583.00	54.25	638.50
205	588.75	54.75	644.75
207	594.75	55.25	651.25
209	600.50	55.75	657.50
211	606.50	56.50	664.00
213	612.25	57.00	670.25
215	618.00	57.50	676.75
217	624.00	58.00	683.00



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www.easternmetal.com



# BERTHA HV® ACCORDION SHUTTER SAMPLES

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

## 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® CENTERMATE SAMPLE

HV-SAMPLE

17" x 30"

Top Track:  
1" Build-Out Header

Bottom Track:  
Walkover

Centermate:  
BERTHA HV® Centermate



## 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

SPECIAL ORDER

17" x 30"

HT-SAMPLE

Top Track:  
1" Build-Out Header

Bottom Track:  
Walkover

Centermate:  
"T Lock" Centermate



# BERTHA HV® ACCORDION SHUTTER RADIUS TRACK

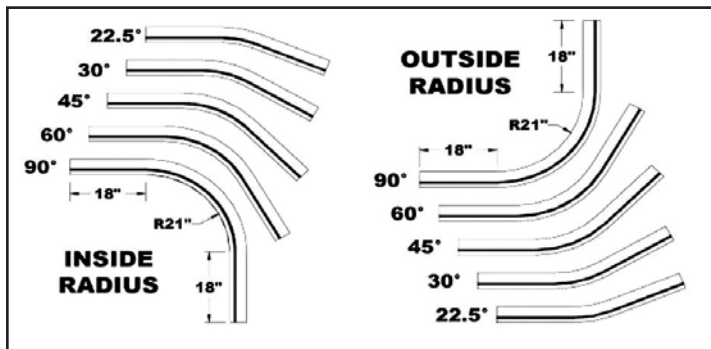
## HV® Accordion Shutter Radius Track

IN STOCK - HD Tracks Ceiling/Ceiling

<u>52-COLOR-145</u>	(Inside/HD) 45°	Color*
<u>52-WH-190</u>	(Inside/HD) 90°	White
<u>52-MB-190</u>	(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)

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

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**SHUTTERS 43**  
04/01/24


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**\*\*\*To Order Accordion Components Contact ALL POINTS Directly\*\*\*  
 1-800-226-5555 • info@allpointsscrew.com**

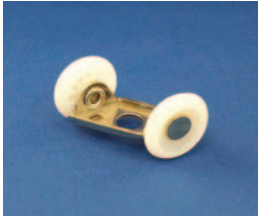
**HV Accordion Screws**  
 14D275TUW4/HV 14 x 2-3/4" Long  
 14D175TUW4/HV 14 x 1-3/4" Long  
 10N275TUW4/HV 10 x 2-3/4" Long



**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




**HD Lock**  
 LOHRHB  
 Hook Bolt Mortise Lock -SS  
 LOBRCL  
 Key cylinder - Brass/SS  
 LOBRTT  
 Thumb turn  
 cylinder - brass/SS




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


**J-Clip**  
 EA-J-CLIP



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



**HV Holdback Clip**  
 HVCLIP/BZ Black  
 HVCLIP/WH White  
 HVCLIPFC/WH White (for Flat Centermates)  
 HVCLIPFC/BK Black (for Flat Centermates)



**HV 3/8 X 3/4 Acetel®**  
 Thumb Screw  
 37C75MTSN White  
 37C75MTSN/B Black  
 please specify white or black