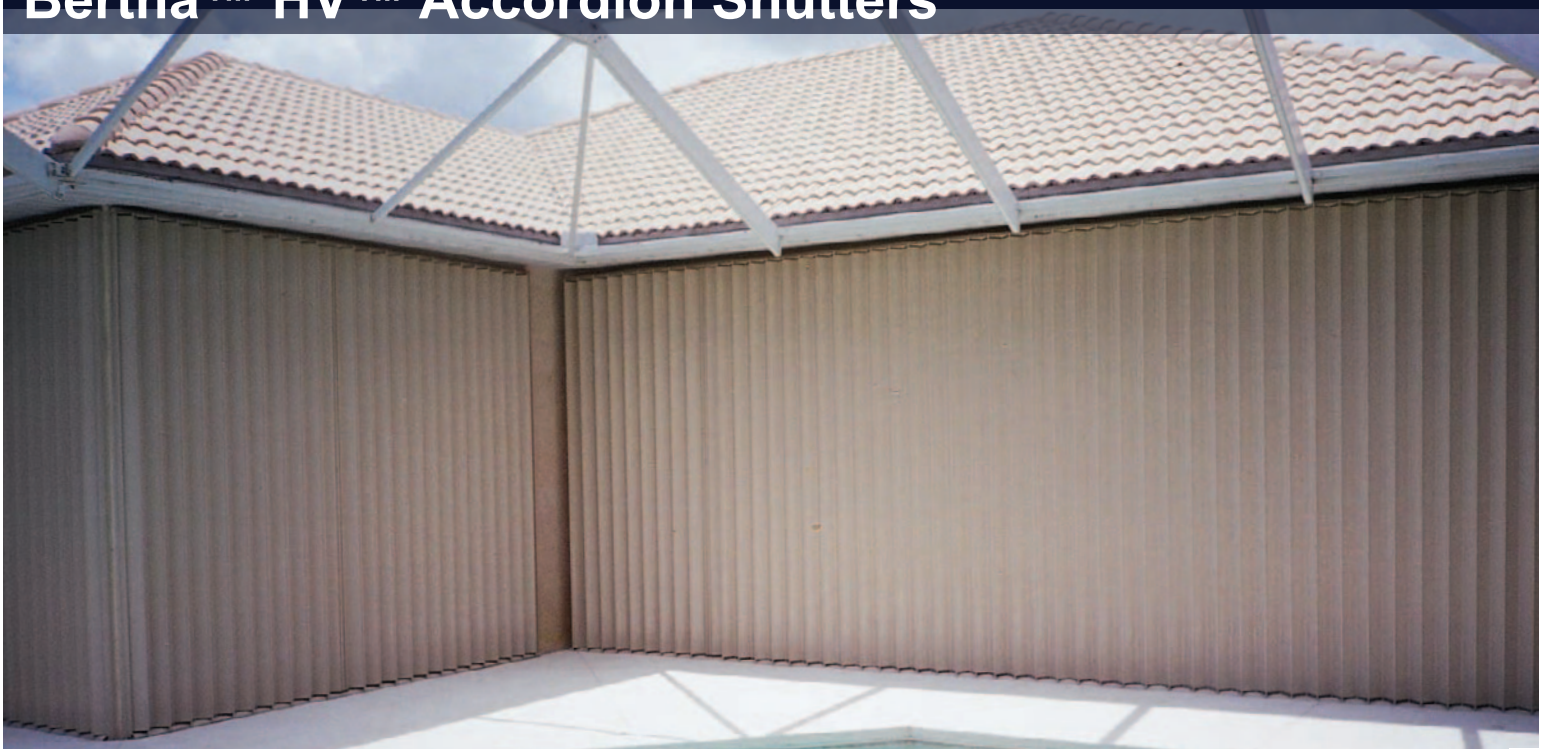
EASTERN METAL SUPPLY

Bertha™ HV™ Accordion Shutters



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

EASTERN METAL SUPPLY www.easternmetal.com • info@easternmetal.com 02/2024
FL: 800-432-2204 • NC/DE/GA: 800-343-8154 • TX/LA: 800-996-6061 • MO/OH/IN: 888-822-6061

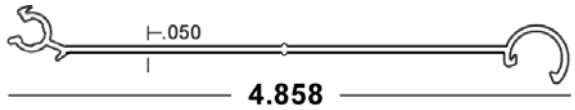
BERTHA HV® ACCORDION SHUTTER - BLADES 1 & 2

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

BERTHA HV® 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)

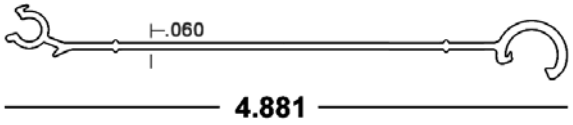


Covered under US Patents #5,458,179; #6,779,582

BERTHA HV® BLADE #2

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

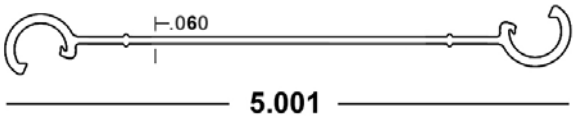
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
(10 Pcs/Sub; 120 Pcs/Master)



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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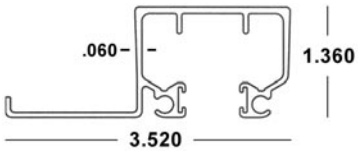
BERTHA HV® CEILING HEADER #1 x 20'

41-COLOR-424

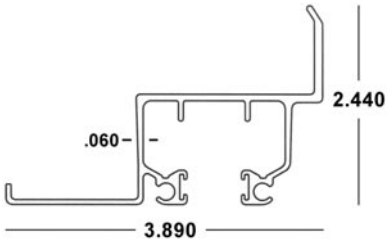
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
(4 Pcs/Sub) Felt: 41-HV-320



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

41-COLOR-425

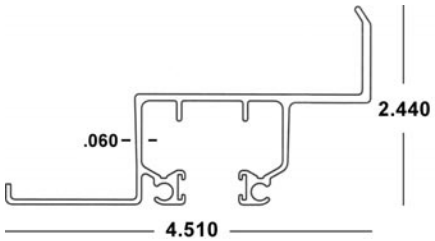
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
(4 Pcs/Sub) Felt: 41-HV-320



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

41-COLOR-426

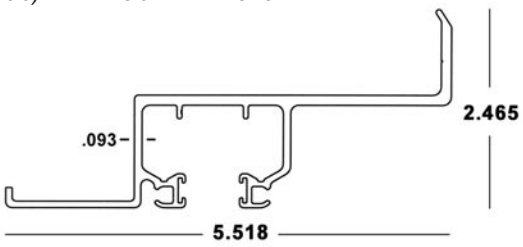
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
(4 Pcs/Sub) Felt: 41-HV-320



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



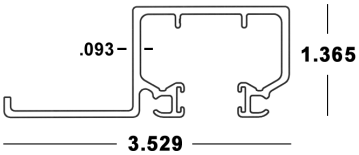
BERTHA HV® ACCORDION SHUTTER - BLADES 1 & 2

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

BERTHA HV® HD CEILING HEADER #2 x 20'

41-COLOR-430

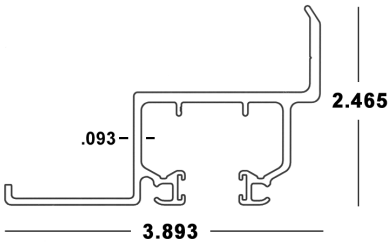
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
(4 Pcs/Sub) *Felt: 41-HV-320*



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

41-COLOR-431

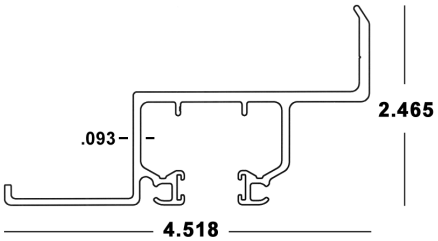
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
(4 Pcs/Sub) *Felt: 41-HV-320*



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

41-COLOR-432

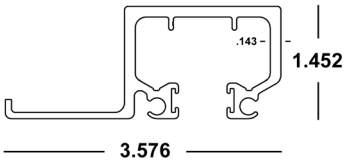
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
(4 Pcs/Sub) *Felt: 41-HV-320*



BERTHA HV® SHD™ CEILING HEADER x 20'

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

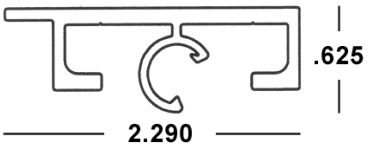
Felt: 41-HV-320



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

41-COLOR-427

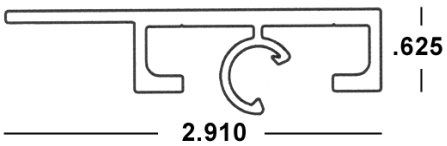
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
(4 Pcs/Sub)



BERTHA HV® 1" DIRECT MOUNT STARTER x 20'

41-COLOR-428

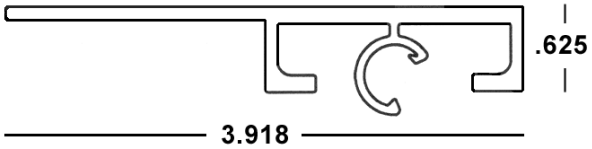
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
(6 Pcs/Sub)



BERTHA HV® 2" DIRECT MOUNT STARTER x 20'

41-COLOR-434

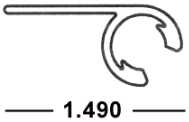
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
(6 Pcs/Sub)



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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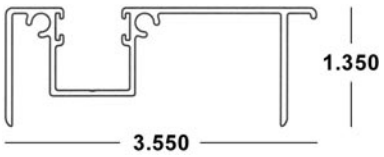
BERTHA HV® ACCORDION SHUTTER - BLADES 1 & 2

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

BERTHA HV® ADJUSTABLE TRACK w/FELT x 20'

41-COLOR-423

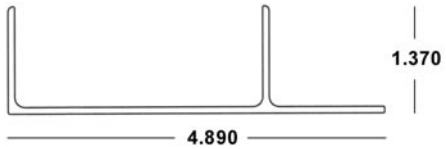
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
(6 Pcs/Sub) *Felt: 41-HV-320*



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)

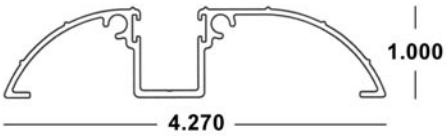


BERTHA HV® WALKOVER TRACK x 20'

41-COLOR-440

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

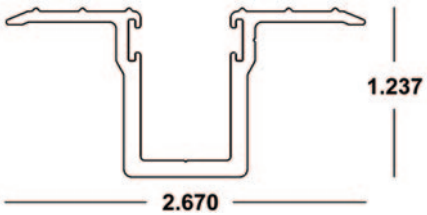
Accepts Vinyl Inserts (p15)



BERTHA HV® ANODIZED TRENCH TRACK x 20'

41-63-437 Silver Anodized

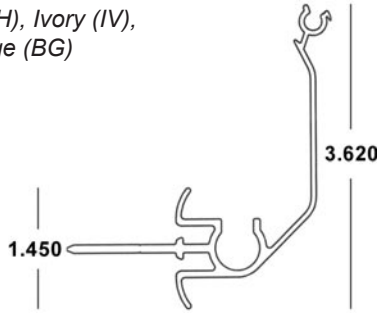
Felt: 41-HV-320



BERTHA HV® CORNER CENTERMATE #3 X 20'

41-COLOR-429

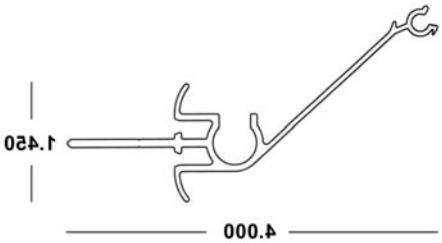
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
(6 Pcs/Sub)



BERTHA HV® CENTERMATE #1 x 20'

41-COLOR-421 *Self Mating*

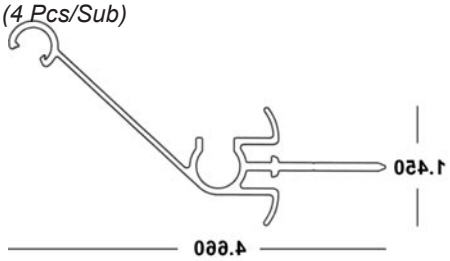
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
(6 Pcs/Sub)



BERTHA HV® FLOATING CENTERMATE #2 x 20'

41-COLOR-422

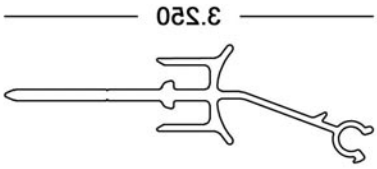
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
(4 Pcs/Sub)



BERTHA HV® FLAT CENTERMATE x 20'

41-COLOR-420 *Self Mating*

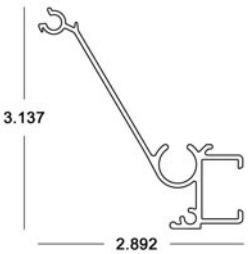
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)



BERTHA HV® MALE T LOCK x 20'

41-WH-437 White *(4 Pcs/Sub)*

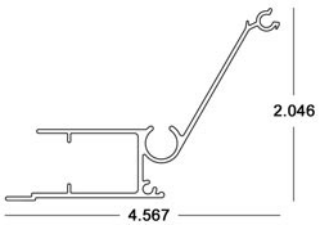
Ivory (IV), Bronze (MB) and Beige (BG) available as SPECIAL ORDER



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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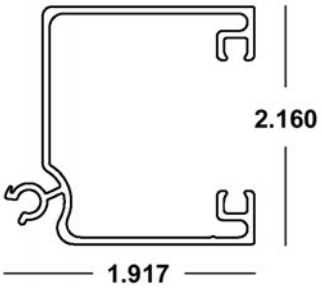
BERTHA HV® ACCORDION SHUTTER - BLADES 1 & 2

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

BERTHA HV® HD™ CENTERMATE WITHOUT RODS x 20'

41-COLOR-439

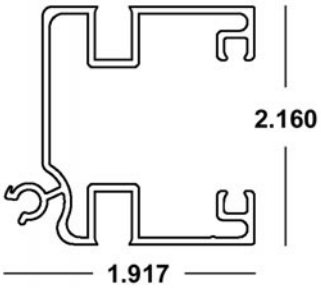
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)



BERTHA HV® HD™ CENTERMATE WITH RODS x 20'

41-COLOR-435

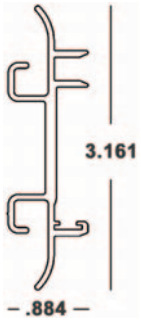
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)



BERTHA HV® HD™ INSERT x 20'

41-COLOR-436

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

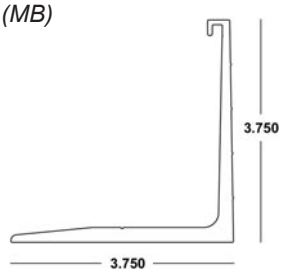


Mates with BERTHA HV® HD™ Centermates

BERTHA HV® RAINGUARD x 17'

41-COLOR-460 *(10 Pcs.)*

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

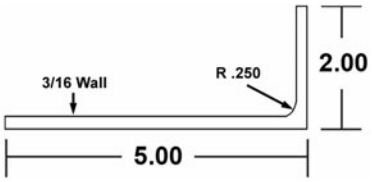


BERTHA HV® BUILD-OUT ANGLE x 20'

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)

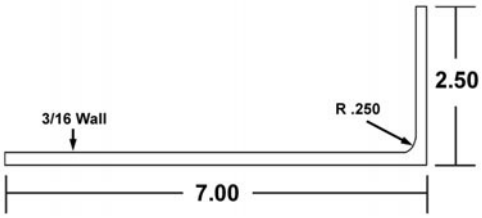


BERTHA HV® BUILD-OUT ANGLE x 20'

2-1/2 x 7 x .190 x 20' *With Inside Radius*

11-COLOR-420 6063-T6

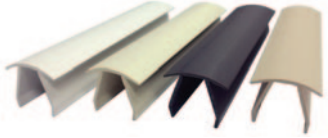
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)



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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NOW AVAILABLE!

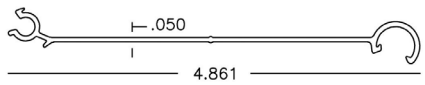
HV® ESSENTIAL ACCORDION SHUTTER

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

NOW AVAILABLE!

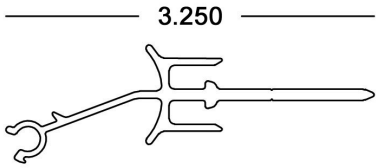
BERTHA HV™ Blade #1

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



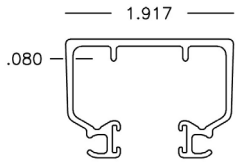
HV® Flat Center Mate x 20'

41-COLOR-420
(6 Pcs/Sub)



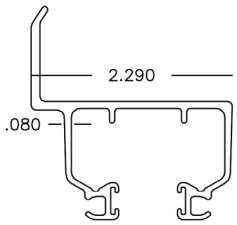
HV® Essential Ceiling Header x 20'

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



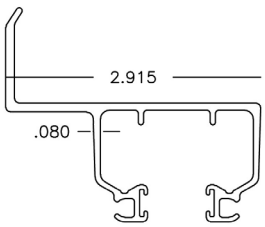
HV® Essential 3/8" Build Out x 20'

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



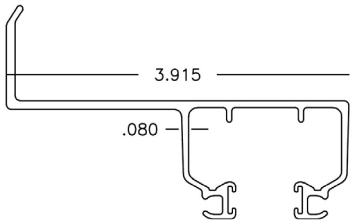
HV® Essential 1" Build Out x 20'

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



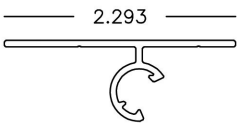
HV® Essential 2" Build Out x 20'

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



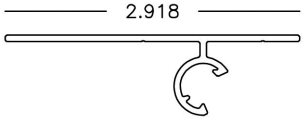
HV® Essential 3/8" Direct Mount x 20'

41-COLOR-472



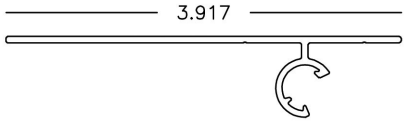
HV® Essential 1" Direct Mount x 20'

41-COLOR-474



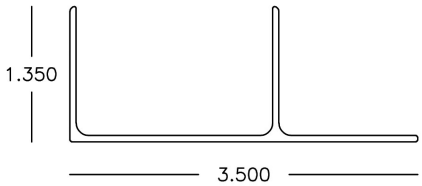
HV® Essential 2" Direct Mount x 20'

41-COLOR-476



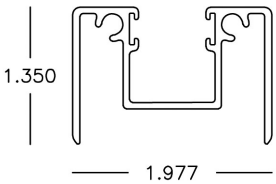
HV® Essential .080 Adjustable Adapter With Lip x 20'

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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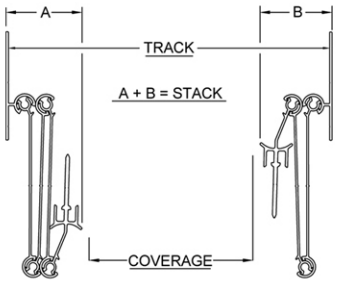
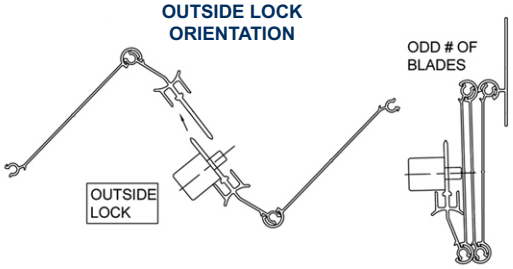
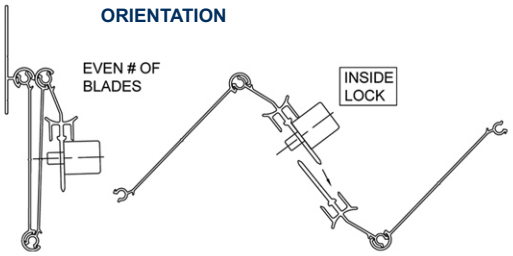
HV® ACCORDION FLAT CENTERMATE STACKING GUIDE



OUTSIDE LOCK ORIENTATION



INSIDE LOCK ORIENTATION



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

EASTERN METAL SUPPLY
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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 6'

Punched Window 3 Holes

SPECIAL ORDER *41-COLOR-72P3*

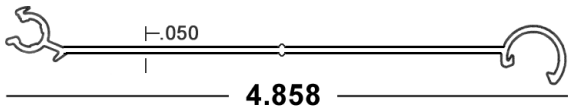
Contact your Sales Rep for availability

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*

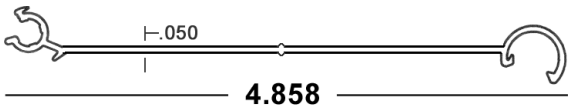
Contact your Sales Rep for availability

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*

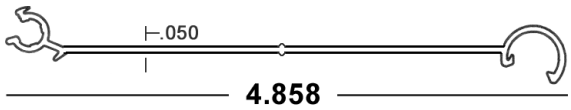
Contact your Sales Rep for availability

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

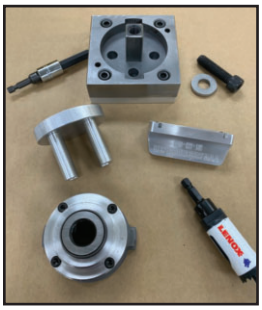


HVPUNCH-1 (PIC at Right)

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® 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® 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

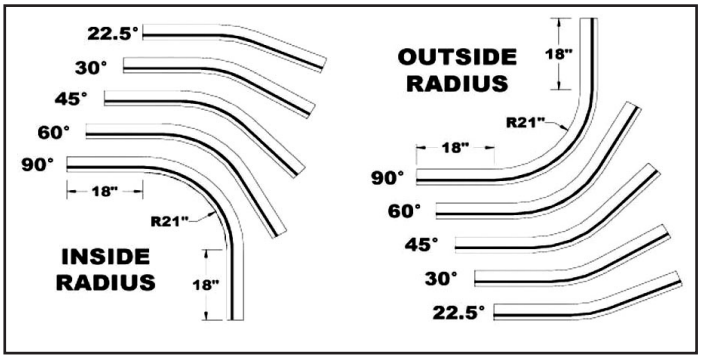
HV ® Accordion Shutter Radius Track

IN STOCK - HD Tracks Ceiling/Ceiling

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)

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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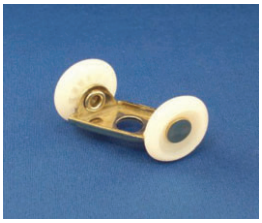
BERTHA HV® ACCORDION COMPONENTS AVAILABLE FROM ALL POINTS SCREW, BOLT & SPECIALTY CO.

*****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*

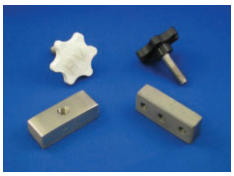
HV Wheel Carriage
WC10



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*

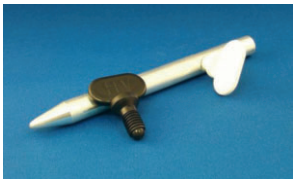


HD Lock
LOHRHB
Hook Bolt Mortise Lock –SS
LOBRCL
Key cylinder – Brass/SS
LOBRTT
Thumb turn cylinder – brass/SS

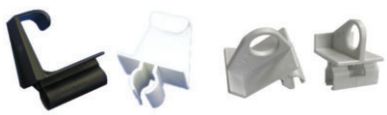
HV T-Handle Lock with J-Clip
LO/WH *White*
LO/BZ *Bronze*
LO/IV *Ivory*
LO/BE *Beige*

J-Clip
EA-J-CLIP

HV Locking Pins
Please specify ¼-20 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 ¾ Acetel® Thumb Screw
37C75MTSN *White*
37C75MTSN/B *Black*
please specify white or black