



SHUTTERS

Lifestyle improvements featuring Shade Solutions, Security and Storm Protection

As the premier hurricane protection supplier in the Southeast, EMS provides the complete package of high quality innovative products, competitive pricing and unmatched customer service. We've increased industry leading inventories of rated hurricane protection including Roll Shutters, Accordions, Bahama & Colonial shutters as well as Storm Panels and Hurricane Fabric Panels. Our Decorative Shutters offer Shade Solutions and Privacy, while our Accordion and Roll Shutters provide Security for your customers' homes and businesses.

ROLL SHUTTERS



BAHAMAS & COLONIALS



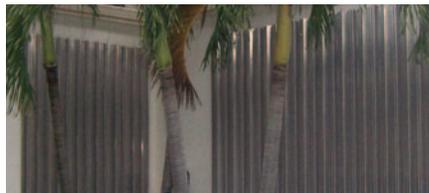
ACCORDIONS



HURRICANE FABRIC



STORM PANELS



MANUFACTURED SHUTTERS



PROUD MEMBERS:



ADVANCED
TEXTILES
ASSOCIATION



<- SCAN FOR MANUFACTURED
SHUTTERS BROCHURE



EASTERN METAL SUPPLY

SHUTTERS 01
04/01/24

www.easternmetal.com

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



40MM BERTHA™ END RETENTION ROLL SHUTTER SYSTEM (ER)

Code Approvals: FBC Non-HVHZ, FBC HVHZ, IBC/IRC

40mm Double Wall Slat with Screw Boss x 22'
VENTED
 40-COLOR-471
 Sub Bundle Size: 10



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

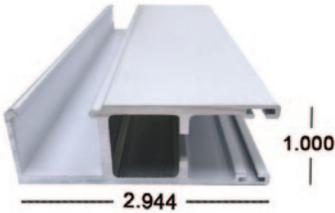
40mm Double Wall Slat with Screw Boss x 22'
NON-VENTED
 40-COLOR-472
 Sub Bundle Size: 10



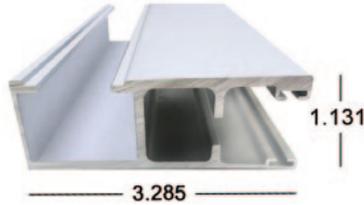
40mm Slat Locks
 90000C LEFT (bags of 100)
 90001C RIGHT (bags of 100)
 Black



40mm Small Leg Track x 24'
 40-COLOR-476
 Mates with 40-COLOR-486
 Use with 41-HV-200 Felt
 Also used with 55mm & Single Wall systems
 Sub Bundle Size: 4



40mm Large Leg Track x 24'
 40-COLOR-481
 Mates with 40-COLOR-486
 Use with 41-HV-200 Felt
 Also used with 55mm & Single Wall systems
 Sub Bundle Size: 5



Cover Cap x 12'
 40-COLOR-486
 Mates 40-COLOR-476, 40-COLOR-481
 Sub Bundle Size: 30



40mm Small Leg Closed Face Track x 22' 6"
 40-COLOR-478
 Use with 41-HV-200 Felt
 Also used with 55mm & Single Wall systems
 Sub Bundle Size: 4



40mm #10 x 2 ER Screw
 90003C (bags of 100)



40mm Screw Sleeve
 90002C (bags of 100)
 Black



40mm Large Leg Closed Face Track x 22' 6"
 40-COLOR-483
 Use with 41-HV-200 Felt
 Also used with 55mm & Single Wall Systems



Roll Shutter Track Felt (.200/.270)
 41-HV-200 Black Felt Roll x 2500'
 2 per box



40mm Hand Held Sample
 40ERDW-SAMPLE Double Wall
 17" x 8" with Base Slat & Lock



40MM BERTHA™ END RETENTION ROLL SHUTTER SYSTEM (ER)

Code Approvals: FBC Non-HVHZ, FBC HVHZ, IBC/IRC

40mm Base Slat x 20'

40-COLOR-100

Mates with
40-COLOR-105
Sub Bundle
Size: 8

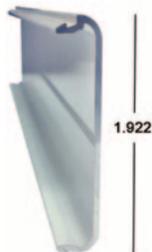


COLOR = available in
White (WH), Ivory (IV),
Bronze (MB) and Beige (BG)

40mm Base Cover x 20'

40-COLOR-105

Mates with
40-COLOR-100
Sub Bundle
Size: 20



Base Slat Cylinder Lock

2003432-1
2003432-2
2003432-3
2003432-4



Bottom Slat Weather Seal

41-68-101 400' Roll - 21" Reel
Bulb Gasket Seal Black
Mates w/ 40mm, 55mm, 58mm, 60mm Slats



Profile

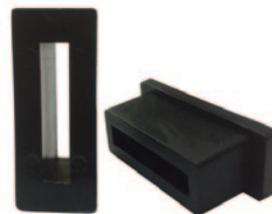
40mm Base Slat Locking Rod

10-63-265 3/16 x 1 x 20'
Mill Finish



40mm Base Slat Lock Guide

40-BK-800 Black Plastic



Home Automation

App Control • Remote Access
On Screen Setup Wizard
Time Events • Scenes



Somfy myLink™
1811264
Requires RTS
Motor; Free App
Download

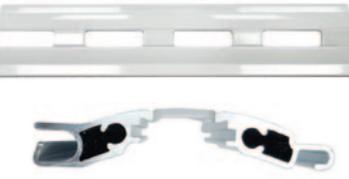
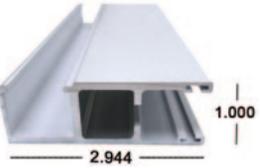
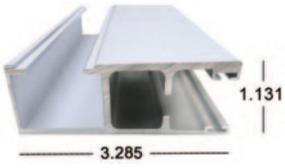
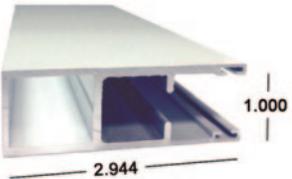
**Additional Home Automation
Devices Available on SHUTTERS 15**

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55MM BERTHA™ END RETENTION ROLL SHUTTER SYSTEM (ER)

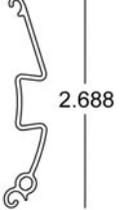
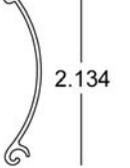
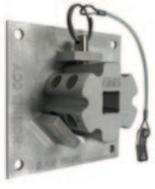
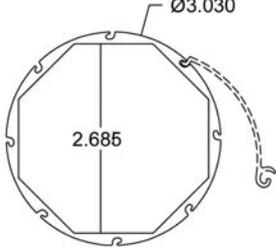
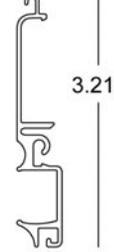
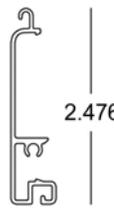
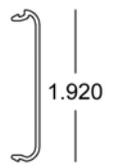
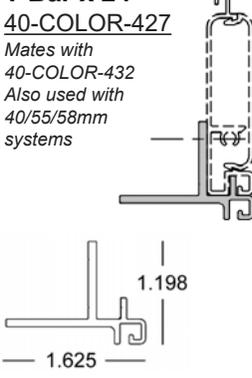
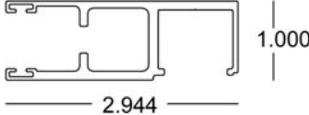
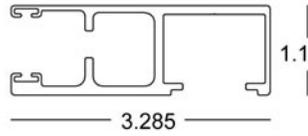
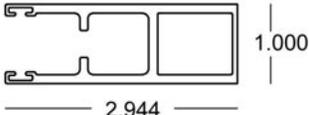
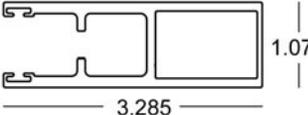
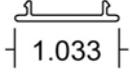
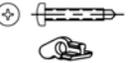
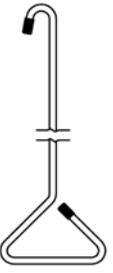
Code Approvals: FBC Non-HVHZ, FBC HVHZ, TDI

<p>55 MM VENTED Slat x 24' 40-COLOR-980 Sub Bundle Size: 10</p>  <p>COLOR = available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)</p>	<p>55mm ER NON VENTED View Port Slat x 24' - NEW 40-COLOR-980VPNV</p>  <p>55mm ER View Port Insert 40-VP-990 - NEW Clear Polycarbonate</p>	<p>55mm ER Slat Lock Black 40-63-786 One Piece - NEW</p> 	<p>55 MM End Retention Assembly Screws Phillips Head Sheet Metal Screws 41108-100 (bags of 100) All Points Product Code: 10N250TXFS/HV</p> 
<p>55mm Small Leg Track x 24' 40-COLOR-476 Mates with 40-COLOR-486 Use with 41-HV-200 Felt Also used with 40mm & Single Wall systems Sub Bundle Size: 4</p> 	<p>55mm Large Leg Track x 24' 40-COLOR-481 Mates with 40-COLOR-486 Use with 41-HV-200 Felt Also used with 55mm & Single Wall systems Sub Bundle Size: 5</p> 	<p>Cover Cap x 12' 40-COLOR-486 Mates 40-COLOR-476, 40-COLOR-481 Sub Bundle Size: 30</p> 	<p>Roll Shutter Track Felt 41-HV-200 (.200/.270) Black Felt Roll x 2500' 2 per box</p> 
<p>55mm Small Leg Closed Face Track x 22' 6" 40-COLOR-478 Use with 41-HV-200 Felt Also used with 40mm & Single Wall systems Sub Bundle Size: 4</p> 	<p>55mm Large Leg Closed Face Track x 22' 6" 40-COLOR-483 Use with 41-HV-200 Felt Also used with 40mm & Single Wall Systems</p> 	<p>40mm Base Slat x 20' 40-COLOR-100 Mates with 40-COLOR-105 Sub Bundle Size: 8</p> 	<p>40mm Base Cover x 20' 40-COLOR-105 Mates with 40-COLOR-100 Sub Bundle Size: 20</p> 
<p>Base Slat Cylinder Lock 2003432-1 2003432-2 2003432-3 2003432-4</p> 	<p>Base Slat Locking Rod 10-63-265 Mill Finish 3/16 x 1 x 20'</p> 	<p>Base Slat Lock Guide 40-BK-800 Black Plastic</p> 	<p>55mm ER Hand Held Sample 55ER-SAMPLE</p> 



EASY LIFT SINGLE WALL ROLL SHUTTER SYSTEM (63mm)

Code Approvals: FBC (HVHZ), FBC (Non-HVHZ) - FL31658

<p>Single Wall Slat* (63mm) 40-COLOR-430 x 24' Sub Bundle Size: 10</p>  <p>*PATENT PENDING</p>	<p>Finger Pull Slat 40-COLOR-431 x 24' Use with spring loaded shutters only</p> 	<p>Starter Slat x 22' 6" 40-63-428 6063-T6 Mill Finish Mates with 40-63-429, 40-63-431; Also used with 40/55mm systems</p> 	<p>Torsion Spring Adjuster Handle SPA-TOOL Used with TSA-1</p> 	<p>Torsion Spring Adjuster* (Kitted with 3 parts) TSA1 Used with SPA-TOOL; Also used with 40mm system</p>  <p>*PATENT PENDING</p>	<p>70mm Direct Connect Tube x 24' 40-63-429 6063-T6 Mill Finish Mates with 40-63-428</p> 
<p>Base Slat x 20' 40-COLOR-100 Mates with 40-COLOR-105 Also used with 40/55/58mm systems</p> 	<p>Short Base Slat x 24' 40-COLOR-432 Mates with 40-COLOR-105, 40-COLOR-427 Also used with 40/55/58mm systems</p> 	<p>Base Cover x 20' 40-COLOR-105 Mates with 40-COLOR-100, 40-COLOR-432 Also used with 40/55/58mm systems</p> 	<p>Short Base Slat T-Bar x 24' 40-COLOR-427 Mates with 40-COLOR-432 Also used with 40/55/58mm systems</p> 		<p>60mm Direct Connect Tube x 24' 40-63-431 6063-T6 Mill Finish Mates with 40-63-428</p> 
<p>Single Wall ER Small Leg Track x 24' 40-COLOR-476 Mates with 40-COLOR-486 Use with 41-HV-200 Felt Also used with 40/55mm systems</p> 	<p>Single Wall ER Large Leg Track x 24' 40-COLOR-481 Mates with 40-COLOR-486 Use with 41-HV-200 Felt Also used with 40/55mm systems</p> 	<p>Single Wall ER Small Leg Closed Face Track x 22' 6" 40-COLOR-478 Use with 41-HV-200 Felt Also used with 40/55mm systems</p> 	<p>Single Wall ER Large Leg Closed Face Track x 22' 6" 40-COLOR-483 Use with 41-HV-200 Felt Also used with 40/55mm systems</p> 		
<p>Cover Cap x 12' 40-COLOR-486 Mates with 40-COLOR-476, 40-COLOR-481</p>  <p>*COLOR available in: White (WH), Ivory (IV), Bronze (MB) and Beige (BG)</p>	<p>Roll Shutter Track Felt (.200/.270) 41-HV-200 Black Felt Roll x 2000'</p> 	<p>ER Screw 90003C #10 - 8 x 2" 410 SS Dacrosshield Coated (Bags of 100)</p> 	<p>Single Wall Slat Lock Guide 40-63-795 (Bags of 200) Nylon with UV Inhibitor</p>  <p>Screw & Slat Lock 40-63-794 (Bags of 100) 8 x 1 410 SS SDS Non End Retention Screw Plastic Non End Retention Slat Lock</p> 		<p>63mm Bent Reach Arm x 5' - NEW 63MM-REACHARM 6063 T6 MF with Caps</p> 

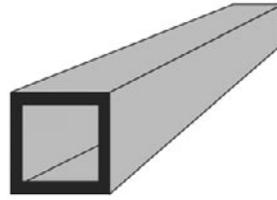


BERTHA™ PAINTED ALUMINUM TUBING FOR ROLL SHUTTERS

Code Approvals: FBC Non-HVHZ, FBC HVHZ, IBC/IRC

Bertha™ Painted Aluminum Square Tube

Stock Code	Size in Inches (E x M x S color)	Approx. Wt/Lin ft.
<u>19-WH-225</u>	3 x .125 x 20' White	1.726
<u>19-WH-220</u>	3 x .125 x 24' White	1.726
<u>19-MB-235</u>	3 x .125 x 24' Bronze	1.726
<u>19-IV-235</u>	3 x .125 x 24' Ivory	1.726
<u>19-BG-235</u>	3 x .125 x 24' Beige	1.726
<u>19-BK-235</u>	3 x .125 x 24' Black	1.726
<u>19-COLOR-240</u>	3 x .250 x 24' **	3.300
<u>19-WH-245</u>	4 x .125 x 20' White	2.325
<u>19-WH-400</u>	4 x .125 x 24' White	2.325
<u>19-MB-246</u>	4 x .125 x 24' Bronze	2.325
<u>19-IV-400</u>	4 x .125 x 24' Ivory	2.325
<u>19-BG-400</u>	4 x .125 x 24' Beige	2.325
<u>19-BK-400</u>	4 x .125 x 24' Black	2.325
<u>200-WH-028</u>	4 x .125 x 30' White	2.325
<u>200-MB-028</u>	4 x .125 x 30' Bronze	2.325
<u>19-WH-2500</u>	4 x .250 x 20' White	4.500
<u>19-MB-2500</u>	4 x .250 x 24' Bronze	4.500
<u>19-IV-2500</u>	4 x .250 x 24' Ivory	4.500
<u>19-BG-2500</u>	4 x .250 x 24' Beige	4.500
<u>19-WH-2501</u>	4 x .250 x 24' 6" White	4.500



Touch Up Spray Paint

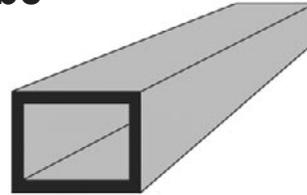
16 ounce cans

Stock Code	Color
<u>35-00-100</u>	White
<u>35-00-100G</u>	White Gloss
<u>35-00-105</u>	Bronze
<u>35-00-105G</u>	Bronze Gloss
<u>35-00-110</u>	Ivory Gloss
<u>35-00-115 (TX)</u>	Beige
<u>35-00-115G</u>	Beige Gloss
<u>35-00-120</u>	Black
<u>35-00-120G</u>	Black Gloss



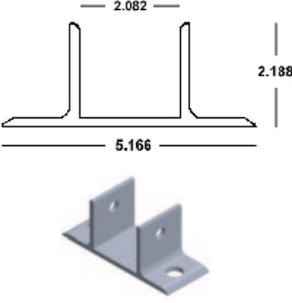
Bertha™ Painted Aluminum Rectangular Tube

Stock Code	Size in Inches (E x M x S color)	Approx. Wt/Lin ft.
<u>20-COLOR-803</u>	4 x 6 x .125 x 24' **	2.925
<u>20-COLOR-805</u>	4 x 6 x .250 x 20' **	5.700



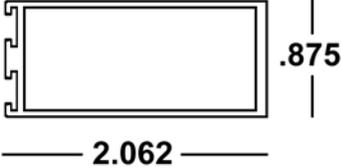
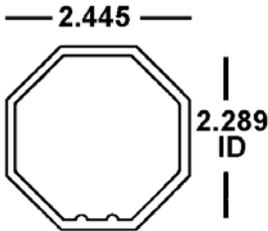
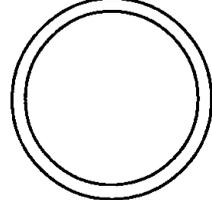
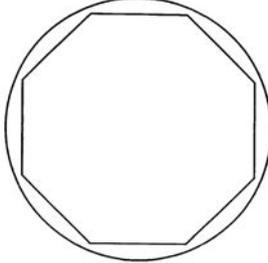
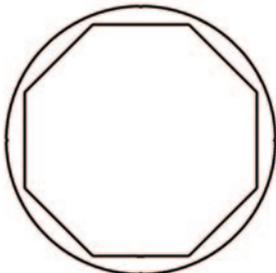
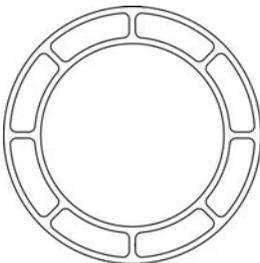
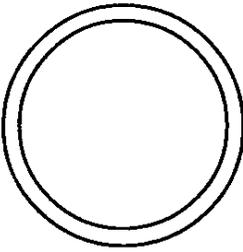
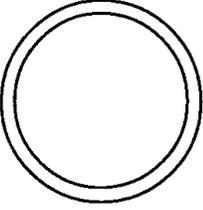
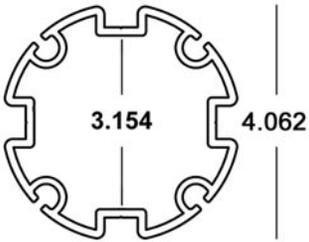
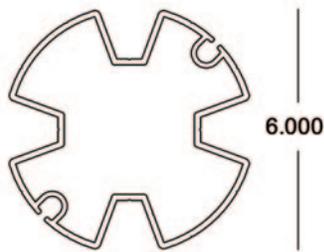
**COLOR - Available in: White (WH), Bronze (MB), Ivory (IV), Beige (BG)

MISCELLANEOUS ROLL SHUTTER PRODUCTS

<p>40mm Non-ER SLAT LOCK <u>40-63-796</u> Left & Right (2 Bags of 100 each) Black</p> 	<p>BOTTOM SLAT x 22' 41-WH-001 White 41-MB-001 (TX) White 10 Pcs</p>  <p style="text-align: center;">2.210</p>	<p>2" STORM BAR CLIP 6063-T6 Mill Finish x 2" TB-CLIP (with holes) x 12' <u>40-63-262</u> Receives 2" Square Tube; Also used as support brace bracket</p>  <p style="text-align: center;">2" Piece with Holes</p>	
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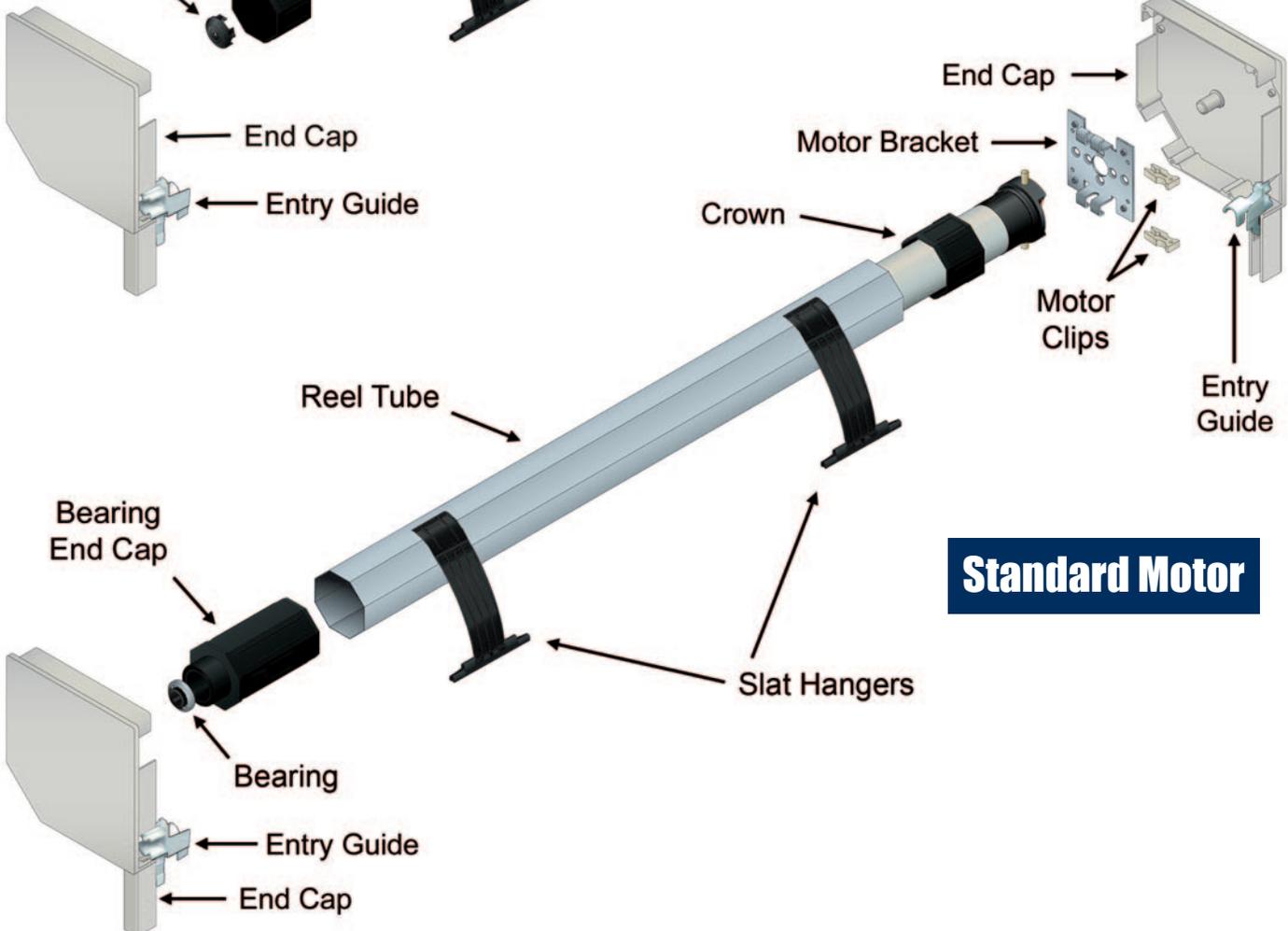
ROLL SHUTTER SYSTEMS - Miscellaneous Reel Tubes

<p>Storm Bars x 22' 6" (Dove Tail Tubes) MILL ORDER 40-WH-902</p> 	<p>58 mm Octagonal Tube x 24' 40-63-250 Mill Finish</p> 	<p>60mm Reel Tube x 17' MILL ORDER 51-63-338 2.365 ID</p> 	
<p>70mm Heavy Reel Tube x 24' 1" 52-63-7521 Wall: 0.168 Mates with BERTHA Reel Sleeve 41-63-352</p> 	<p>70mm HD Reel Tube x 21' 1" 41-63-349 Wall: 0.215</p> 	<p>94mm Reel Tube MILL ORDER 41-63-350 3.701 ID</p>  <p style="font-size: small; text-align: right;">Copyright 2007-2024 Eastern Metal Supply, Inc. HVTM, BERTHA HV®, BERTHA®, DAGROSHIELD® are all trademarks of Eastern Metal Supply, Inc. ASSA® is a trademark of the American Shutter Systems Association. All rights reserved.</p>	
<p>100mm Reel Tube x 20' 18-61-255 3.548 ID (3-1/2") SCH 40</p> 	<p>In-Line Galvanized Steel Reel Tube 4" (95.5MM ID) 4" O.D.; 120 Wall 41-GLV-240 x 20' 41-GLV-288 x 24'</p> 	<p>BERTHA™ Reel Sleeve 41-63-352 Mill Finish x 20' Mates with 70mm Reel Tubes - 52-63-7521</p> 	<p>BERTHA™ Reel Tube Sleeve 41-63-354 Mill Finish x 27'</p> 



Typical Roll Shutter Hood* Assembly

Override Motor



Standard Motor

* Various Hood sizes, styles & colors listed on Hurricane p34



ROLL SHUTTER COMPONENTS: Gears

Plastic Gear

6A23811PF7 11:1 Ratio 7MM Hex 66 lbs. max
6A23808PF7 8:1 Ratio 7MM Hex 44 lbs. max



Metal/ZAMAC Gear

6A23811ZF7 11:1 Ratio 7mm Hex 66 lbs.max
6A23808ZF7 8:1 Ratio 7MM Hex 44 lbs.max



1424 Simu Gear

2002147 11:1 7mm
 Hex/16mm square
 Use with Bracket 2003639
 56 lbs. max



1424 Simu Gear Connector

2002392 Mates with Gears



Simu 1424 Gear Plate

2003639 includes mounting screws
 Mates with **2002146**



ROLL SHUTTER COMPONENTS: Assist Springs

All Assist Springs Utilize Plate 6A39438

Assist Spring 60mm

33 lb (15KG) **7014-004**
 44 lb (20KG) **2002369**
 53 lb (24KG) **7014-005**
 75 lb (34 KG) **6C0445160G2**
 137 lb (62KG) **7014-023**

Assist Spring 70mm

66 lb (30 kg) **2002372**
 99 lb (45 kg) **7014-027**
 132 lb (60 KG) **6C0450140G4**
 165 lb (75 kg) **7014-010**
 220 lb (100 KG) **2005355**

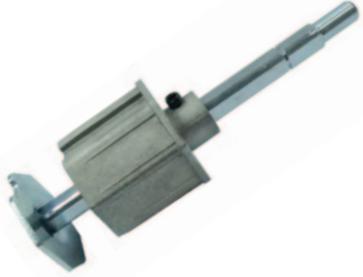
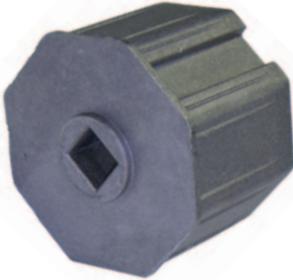


ROLL SHUTTER COMPONENTS: Universals & Handcranks

<p>90° Universal 2 hole includes screw for bullet (bullet sold separately) Casted Stainless Steel Hex Drive <u>6A323S584E7</u> Square Drive <u>2004121</u></p> 	<p>90° Universal 2 hole For 7" End Caps or Less Comes with Bullet Nickel Plated Hex Drive <u>2001783</u></p> 	<p>90° Universal 4 hole includes screw for bullet (bullet sold separately) Casted Stainless Steel Hex Drive <u>6A323T584E7</u> Square Drive <u>2004125</u></p> 
<p>45° Universal 2 hole For 6.5" - 10" End Cap; Comes with Bullet Stainless Steel Hex Drive <u>816F039411</u></p> 	<p>Bullet for Universal (pivot) <u>6A32341FX</u> <i>Screw comes with Universal; Mates with Bell for removeable crank handle</i></p> 	<p>Universal Hex Extension Shaft x 13" <u>9420659</u> <i>Mates with Hex Coupler for Universals</i></p>  <p>Universal Hex Coupler <u>9685120</u> for Extension Shaft</p> 
<p>Handle Lock Wall Clip (plastic) <u>2005402</u></p> 	<p>CRANK EXTENSION KIT CRANK-KIT <i>Includes one of each of the following: Crank handle extension (1/2" tube) 2004173; SS handle for extension (needs pin 2003341) 2004166; Bell for extension (needs pin 2005400) 2001776; Roll Pin for Bell 2005400; Roll Pin for Handle 2003341</i></p> 	<p>Crank Handle Extension <u>2004173</u> 1/2" Tube x 10' <i>Mates with 2004166; needs pin 2005400</i></p> 
<p>SS Handle for Extension <i>Mates with 2004173; Needs pin 2003341</i> <u>2004166</u></p> 	<p>Bell for Extension <u>2001776</u> <i>Needs pin 2005400; Mates with Bullet for Crank Rod/Handle</i></p> 	<p>Roll Pins <i>Mates with Bell and Crank Handle Extension</i> <u>2005400</u> for Bell</p>  <p><u>2003341</u> for Handle <i>Mates with SS Handle 2004166</i></p> 
<p>5' Crank Handle w/Bell (Nickel) <u>6A322E78215</u></p> 	<p>5' Assembled Awning Handle & Hook <u>2001892</u></p> 	<p>T8-9 OVERRIDE EYE & SHAFT <u>9340020</u> <i>Not for use with 2008302 or 2008303</i></p> 

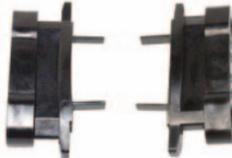


ROLL SHUTTER COMPONENTS: Caps, Pivots and Adapter Rings

<p>Idle Side Adjustable Pivot (metal) 6C66643AL 60mm 6C66645AL 70mm</p> 	<p>Idle Side Adjustable Pivot (plastic) 6C66643 60mm 6C66645 70mm</p> 	<p>Bearing End Cap (bearing not included) 2003504 60mm 2003505 70mm</p> 
<p>60mm Nylon Gear Insert 6D66603</p> 	<p>Aluminum Gear Insert (metal) 6C66603AL 60mm 6C66605AL 70mm</p> 	<p>Double Adjustable Cap 6A66743 60 mm 2005467 70 mm</p> 
<p>60mm Cap with Round Pivot (plastic) 6D66633</p> 	<p>Aluminum Cap w/Round Pivot (metal) 6D66633AL 60mm 6D66635AL 70mm</p> 	<p>SIMU Idler Cap (use plate 2003638) 2003592 60mm 2003560 70mm</p> 
<p>Octagonal Adapter Ring for Round Tube 2006280 60mm 2003501 70mm</p> 		



ROLL SHUTTER COMPONENTS: Bearings and Plates; Plugs, Stops, Entry Guides, Slat Hangers, Slat Locks

<p>42 mm Ball Bearing Steel Bushing 6C35802</p> 	<p>Bearing Plate (100mm x 100mm) 6A39431 <i>includes mounting screws</i></p> 	<p>Heavy Duty Bearing Plate (100mm x 100mm) 7006107 <i>includes mounting screws</i></p> 	<p>Plate for Gear (100mm x 100mm) 6A39436 <i>includes mounting screws</i></p> 	<p>Universal Plate for Gear - no pin (100mm x 100mm) 6A39441 <i>includes mounting screws</i></p> 
<p>Simu 1424 Gear Plate (for # 2002146) 2003639 <i>includes mounting screws</i></p> 	<p>SIMU Spring Support Plate (100mm x 100mm) 2003638 <i>w/retainer clip includes mounting screws</i></p> 	<p>Spring Support Plate (100mm x 100mm) 6A39438 <i>w/retainer screw & nut includes mounting screws</i></p> 	<p>Screws for ALL Plates 2005563 <i>(Cheese head/4 per plate)</i></p> 	<p>Hood Roller 40 x 95 x 30mm 2001826</p> 
<p>10 mm - 3/8" Track Plugs 701277 White Fits 3/8" drill hole</p>  <p>5/8" Track Plugs Fits 5/8" drill hole 58NPWH White 58NPV Ivory 58NPBG Beige 58NPMB Bronze</p> 	<p>Conical Stop <i>(screw included)</i> 6D3332320 White <i>(shown)</i> 2006136 Ivory 2006320 Beige 2003493 Bronze</p> 	<p>Entry Guide NON END RETENTION 6D8642020 White <i>(by the pair - for 40mm)</i></p> 	<p>Entry Guide 2005490 White <i>(by the pair)</i> <i>Modify for 58mm ER</i></p> 	<p>End Retention Entry Guides <i>Sold as a Set</i> 40-TMEG125 For Large Leg Open Face Track 40-COLOR-481</p> <p>40-TMEG156 For Small Leg Open Face Track 40-COLOR-476</p> <p>For Small Leg Closed Face Track 40-COLOR-483</p> <p>For Large Leg Closed Face Track 40-COLOR-478</p>
<p>40mm Slat Lock Guide 40-63-796 <i>Sold as a Set</i></p> 	<p>40mm Slat Hanger 6A33713FX</p> 	<p>58mm End Retention Slat Lock Guide 40-63-799 <i>Sold as a Set</i></p> 	<p>Slat Hanger 6A33619FX <i>for 55mm, 58mm, 60mm</i></p> 	



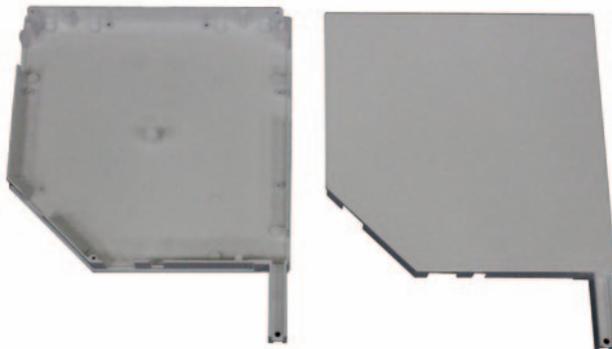
ROLL SHUTTER COMPONENTS: End Caps

45° End Caps: SMALL LEG (sold by the pair)

Colors Available:

White: W • Bronze: MB • Ivory: IV • Beige: BG • Mill Finish/Silver (no suffix)

5" End Cap 125 mm-powder	2006315COLOR
5.5" End Cap 137 mm-powder	2002765COLOR
6" End Cap 150 mm-powder	2005472COLOR
6.5" End Cap 150 mm-powder	2005327COLOR
7" End Cap 180 mm-powder	6C81518M20COLOR
8" End Cap 205 mm-powder	6C81520M20COLOR
10" End Cap 250 mm-powder	2006459COLOR



45° End Caps: LARGE LEG (sold by the pair)

Colors Available:

White: W • Bronze: MB • Ivory: IV • Beige: BG • Mill Finish/Silver (no suffix)

8" End Cap 205 mm-powder	7008-592COLOR	
10" End Cap 250 mm-powder	6C8172520COLOR	
12" End Cap 300 mm-powder	6C8173020COLOR	
10" HD 250MM END CAP KIT	9018758	White
12" HD 300MM END CAP KIT	9018759	White
14" HD 360MM END CAP KIT	9018906	White



End Cap Kits Include: left & right cap, wall bracket, safety plate, plate support and roller accessory kit

90° End Caps (sold by the pair)

SMALL LEG ONLY

Mill Finish Only

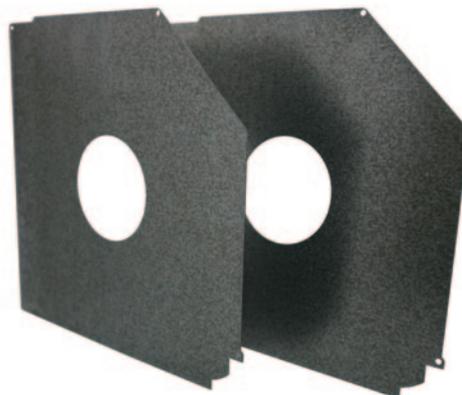
7" End Cap	SPECIAL ORDER <u>2002721</u>
8" End Cap	SPECIAL ORDER <u>2002731</u>
10" End Cap	SPECIAL ORDER <u>2002741</u>



ROLL SHUTTER COMPONENTS: Safety Plates

SAFETY PLATES (sold by the pair)

180-45 hole 72 (7") use with 60mm	<u>7008-549</u>
205-45 hole 72 (8") use with 60mm	<u>7008-551</u>
205-45 hole 92 (8") use with 70mm	<u>7008-457</u>
250-45 hole 92 (10") use with 70mm	<u>7008-245</u>
300-45 hole 92 (12") use with 70mm	<u>7008-247</u>



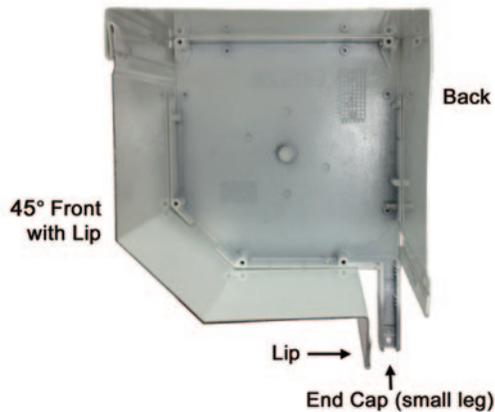
ROLL SHUTTER COMPONENTS: Roll Shutter Hoods (Custom Sizes Available)

45° HOODS - SMALL LEG End Cap

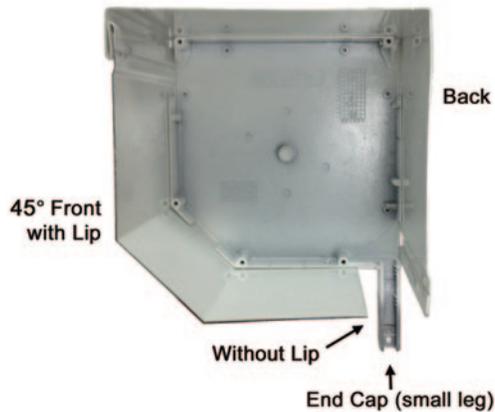
Colors Available: White: WH • Bronze: MB • Ivory: IV • Beige: BG

Product Code	Description	Style
120-COLOR-5FL45	5" HOOD	45° Front with Lip
120-COLOR-5FN45	5" HOOD	45° Front (No Lip)
120-COLOR-5B	5" HOOD	Back
120-COLOR-5.5FL45	5.5" HOOD	45° Front with Lip
120-COLOR-5.5FN45	5.5" HOOD	45° Front (No Lip)
120-COLOR-5.5B	5.5" HOOD	Back
120-COLOR-6FL45	6" HOOD	45° Front with Lip
120-COLOR-6FN45	6" HOOD	45° Front (No Lip)
120-COLOR-6B	6" HOOD	Back
120-COLOR-6.5FL45	6.5" HOOD	45° Front with Lip
120-COLOR-6.5FN45	6.5" HOOD	45° Front (No Lip)
120-COLOR-6.5B	6.5" HOOD	Back
120-COLOR-7FL45	7" HOOD	45° Front with Lip
120-COLOR-7FN45	7" HOOD	45° Front (No Lip)
120-COLOR-7B	7" HOOD	Back
120-COLOR-8FL45	8" HOOD	45° Front with Lip
120-COLOR-8FN45	8" HOOD	45° Front (No Lip)
120-COLOR-8B	8" HOOD	Back

7" 45° HOOD WITH LIP



7" 45° HOOD WITHOUT LIP

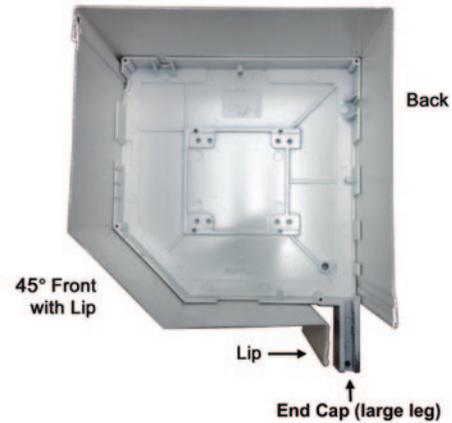


Hoods are produced to order; generally ready to ship in one week or less from FL.

45° HOODS – LARGE LEG End Cap

Colors Available: White: WH • Bronze: MB • Ivory: IV • Beige: BG

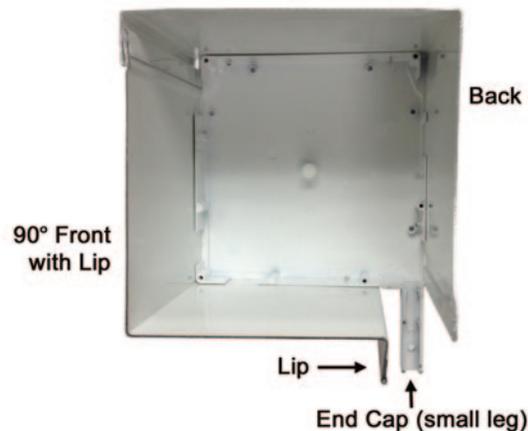
Product Code	Description	Style
120-COLOR-8FL45LL	8" HOOD	45° Front with Lip
120-COLOR-8FN45LL	8" HOOD	45° Front (No Lip)
120-COLOR-8B	8" HOOD	Back
120-COLOR-10FL45	10" HOOD	45° Front with Lip
120-COLOR-10FN45	10" HOOD	45° Front (No Lip)
120-COLOR-10B	10" HOOD	Back
120-COLOR-12FL45	12" HOOD	45° Front with Lip
120-COLOR-12FN45	12" HOOD	45° Front (No Lip)
120-COLOR-12B	12" HOOD	Back



90° HOODS – SMALL LEG End Cap

Colors Available: White: WH • Bronze: MB • Ivory: IV • Beige: BG

Product Code	Description	Style
120-COLOR-7FLSQ9	7" HOOD	90° Front with Lip
120-COLOR-7FNSQ9	7" HOOD	90° Front (No Lip)
120-COLOR-7B	7" HOOD	Back
120-COLOR-8FLSQ	8" HOOD	90° Front with Lip
120-COLOR-8FNSQ	8" HOOD	90° Front (No Lip)
120-COLOR-8B	8" HOOD	Back
120-COLOR-10FLSQ	10" HOOD	90° Front with Lip
120-COLOR-10FNSQ	10" HOOD	90° Front (No Lip)
120-COLOR-10B	10" HOOD	Back

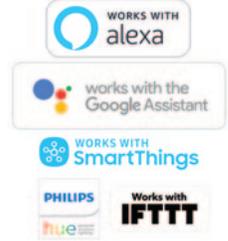


ROLL SHUTTER COMPONENTS: Home Automation & Solar Motor

HOME AUTOMATION

TaHoma Smart Home Gateway 1811731

- Can hold up to 40 channels
- Multiple devices can be joined for multi-zone control
- Compatible with Remote Motor Kits: [445SK](#), [528SK](#), [446SK](#), [527SK](#)
- Compatible with all wireless Somfy/Simu wireless receivers

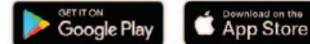


DOOYA Smart Hub DD7002B

- One Hub can connect to 30 motors
- One account can include 5 different locations
- Each location can control 5 Hubs
- Each account can have up to 3 guests
- Compatible with Remote Motor Kits: [445K](#), [528K](#), [446K](#), [S446KB](#) and [527K](#)
- Compatible with Wireless Receivers: [DC74](#), [DC136](#)



Compatible with
GOOGLE HOME &
ALEXA



SIMU Somfy myLink Smart Hub 1811264

- Can hold up to 16 channels
- Can join 10 MyLinks together
- Compatible with Remote Motor Kits: [445SK](#), [528SK](#), [446SK](#), and [527SK](#)
- Compatible with Wireless Receivers: [1810481](#), [1810602](#), [2008191](#)

EMS Brand Solar Motor Kit - **NEW!** Remote Override (TYPE 5)

S346KB 30Nm lifting capacity up to 119 lbs

S446KB 50Nm lifting capacity up to 200 lbs

Both used with **DD1538HK**

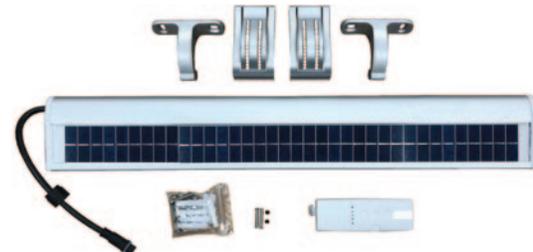
Includes (Also Sold Separately): 60 & 70mm Crowns; 60 & 70mm Drives • Bracket



Bi-Directional Solar Panel Kit - **NEW!** DD1538HK

Used with **S346KB & S446KB**

Includes: Quick Mount Wall Brackets, Hinged Brackets, Mounting Hardware, 5 Channel Remote



No Electrician Needed
No Electrical Permit Required

Solar Motor Includes:

Remote Override; 8' Power Cable with Twist Connection
5 Channel Remote

24" Solar Panel Includes:

Rechargeable Battery; 2' Power Cable with Twist Connection
Micro USB Charging ; Quick Mount Wall Brackets

Recommended use:

40mm ER & Single Wall Roll Shutters

Contact your EMS Sales Representative today for details and pricing.



ROLL SHUTTER MOTORS: EMS Brand Standard & Override Motor Kits

EMS Brand Motor Specification Chart - NOT compatible with SIMU motor products

Model	Rated Torque	Output Speed	Motor Length	Rated Voltage	Freq.	Rated Power	Rated Current	Continuous Run Time	Protection Degree	Max Limit Turns	Theoretical Lifting Capacity**
Standard Motors											
349K	30 Nm	13 rpm	21.5"	120V	60Hz	152W	1.51A	4min	IP44	45	134lbs - 148 lbs
449K	50 Nm	13 rpm	21.5"	120V	60Hz	235W	2.2A	4min	IP44	22	150lbs - 246 lbs
510K	100 Nm	11 rpm	32.75"	120V	60Hz	340W	2.94A	4min	IP44	22	256lbs - 386lbs
Standard w/Override Motor											
323K	30 Nm	13 rpm	24"	120V	60Hz	152W	1.51A	4min	IP44	45	134lbs - 148 lbs
423K	50 Nm	13 rpm	24"	120V	60Hz	235W	2.2A	4min	IP44	22	150lbs - 246 lbs
529K	100 Nm	11 rpm	24.5"	120V	60Hz	340W	2.94A	4min	IP44	22	256lbs - 386lbs
Remote Motor											
345K	30 Nm	13 rpm	27"	120V	60Hz	152W	1.51A	4min	IP44	45	134lbs - 148 lbs
445K	50 Nm	13 rpm	27"	120V	60Hz	235W	2.2A	4min	IP44	22	150lbs - 246 lbs
528K	100 Nm	11 rpm	30.5"	120V	60Hz	340W	2.94A	4min	IP44	22	256lbs - 386lbs
Remote w/Override Motor											
346K	30 Nm	13 rpm	29.75"	120V	60Hz	152W	1.51A	4min	IP44	45	134lbs - 148 lbs
446K	50 Nm	13 rpm	29.75"	120V	60Hz	235W	2.2A	4min	IP44	22	150lbs - 246 lbs
527K	100 Nm	11 rpm	30.5"	120V	60Hz	340W	2.94A	4min	IP44	22	256lbs - 386lbs
Standard w/Override Motor											
580K (NOT UL LISTED)	300 Nm	11 rpm	23.75"	120V	60Hz	881W	8.17A	4min	IP44	30	760lbs - 1015lbs

** Lifting Capacity decreases as the height increases.

EMS Brand Standard Motor Kit (TYPE 5)

349K (DM45S) 30Nm; 4 Wire
449K (DM45S) 50Nm; 4 Wire equiv. to **449SK**

Includes (Also Sold Separately):
 60 & 70MM Crowns • 60 & 70mm Drives
 Bracket • Alt. Bracket



EMS Brand Standard Motor Kit (TYPE 6)

510K (DM59S) 100Nm; 4 Wire equiv. to **510SK**

Includes (Also Sold Separately):
 70MM Crown • 70mm Drive
 Bracket • Alt. Bracket



EMS Brand Standard Override Motor Kit (TYPE 5)

323K (DM45S) 30Nm; 4 Wire
423K (DM45S) 50Nm; 4 Wire equiv. to **423SK**

Includes (Also Sold Separately):
 60 & 70MM Crowns • 60 & 70mm Drives
 Bracket



EMS Brand Standard Override Motor Kit (TYPE 6)

529K (DM59M) 100Nm; 4 Wire equiv. to **529SK**

Includes (Also Sold Separately):
 70MM Crown • 70mm Drive
 Bracket • Alt. Bracket



EMS Brand Override Motor Kit (TYPE 9)

(NOT UL LISTED)
580K (DM92M) 300Nm; 4 Wire

Includes (Also Sold Separately):
 100MM Crown • 100mm Drive
 No Bracket - Direct Mount
 Override Crank Eye



ROLL SHUTTER MOTORS: EMS Brand Remote Motor Kits

EMS Brand Remote Motor Kit (TYPE 5)
445K (DM45R) 50Nm; 3 Wire equiv. to 445SK

Includes (Also Sold Separately):
 60 & 70MM Crowns • 60 & 70mm Drives
 Bracket • Alt. Bracket • Five Channel Emitter



EMS Brand Remote Motor Kit (TYPE 6)
528K (DM59R) 100Nm; 3 Wire equiv. to 528SK

Includes (Also Sold Separately):
 70MM Crown • 70mm Drive
 Bracket • Alt. Bracket • Five Channel Emitter



ROLL SHUTTER MOTORS: EMS Brand Remote Override Motor Kits

EMS Brand Remote Override Motor Kit (TYPE 5)
446K (DM45R) 50Nm; 3 Wire equiv. to 446SK

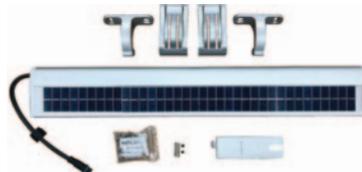
Includes (Also Sold Separately):
 60 & 70MM Crowns • 60 & 70mm Drives
 Bracket • Five Channel Emitter



EMS Brand Solar Motor Kit - NEW!
Remote Override (TYPE 5)
S346KB (DM45R) 30Nm lifts up to 119 lbs
S446KB (DM45R) 50Nm lifts up to 200 lbs
Both used with DD1538HK (see below)
Includes (Also Sold Separately): 60 & 70MM Crowns
 60 & 70mm Drives • Bracket • Five Channel Emitter



DD1538HK Solar Panel Kit - **NEW!**



EMS Brand Remote Override Motor Kit (TYPE 6)
527K (DM59R) 100Nm; 3 Wire equiv. to 527SK

Includes (Also Sold Separately):
 70MM Crown • 70mm Drive
 Bracket • Alt. Bracket
 Five Channel Emitter



ROLL SHUTTER MOTORS: EMS Brand Miscellaneous Electronics

WiFi Smart Hub
DD7002B
 For Dooya Motors



15 Channel Remote
Unidirectional
DC1602



Keychain Emitter
DC61 One Channel



Twenty Channel
Wireless Receiver
DC74 (Standard Motors)
DC136 (for 580K)



SIMU ROLL SHUTTER MOTORS: Standard & Override Motor Kits

SIMU Motor Specification Chart - NOT compatible with EMS motor products

Model	Rated Torque	Output Speed	Motor Length	Rated Voltage	Freq.	Rated Power	Rated Current	Continuous Run Time	Protection Degree	Max Limit Turns	Theoretical Lifting Capacity**
Standard Motors											
<u>449SK</u>	50 Nm	12 rpm	23.625"	120V	60Hz	210W	2.1A	5min	IP44	28	224lbs-246lbs
<u>510SK</u>	100 Nm	14 rpm	27.125"	120V	60Hz	430W	3.8A	4min	IP44	22	308lbs-448lbs
Standard w/Override Motor											
<u>423SK</u>	50 Nm	12 rpm	26"	120V	60Hz	210W	2.1A	5min	IP44	28	224lbs-246lbs
<u>529SK</u>	100 Nm	14 rpm	26.25"	120V	60Hz	430W	3.8A	5min	IP44	28	308lbs-448lbs
Remote Motor											
<u>445SK</u>	50 Nm	12 rpm	26.5"	120V	60Hz	250W	2.1A	5min	IP44	28	224lbs-246lbs
<u>528SK</u>	100 Nm	14 rpm	28.75"	120V	60Hz	430W	3.8A	4min	IP44	28	308lbs-448lbs
Remote w/Override Motor											
<u>446SK</u>	50 Nm	12 rpm	30.25"	120V	60Hz	250W	2.1A	5min	IP44	28	224lbs-246lbs
<u>527SK</u>	100 Nm	14 rpm	33.75"	120V	60Hz	430W	3.8A	5min	IP44	28	308lbs-448lbs

** Lifting Capacity decreases as the height increases.

SIMU Standard Motor Kit (TYPE 5)

449SK (DM45S) 50Nm; 4 Wire equiv. to 449K

Includes (Also Sold Separately):

60 & 70MM Crowns • 60 & 70mm Drives • Bracket • Alt. Bracket



SIMU Standard Motor Kit (TYPE 6)

510SK (DM59S) 100Nm; 4 Wire equiv. to 510K

Includes (Also Sold Separately):

70MM Crown • 70mm Drive • Bracket • Alt. Bracket



SIMU Standard Override Motor Kit (TYPE 5)

423SK (DM45S) 50Nm; 4 Wire equiv. to 423K

Includes (Also Sold Separately):

60 & 70MM Crowns • 60 & 70mm Drives • Bracket



SIMU Standard Override Motor Kit (TYPE 6)

529SK (DM59M) 100Nm; 4 Wire equiv. to 529K

Includes (Also Sold Separately):

70MM Crown • 70mm Drive • Bracket



SIMU ROLL SHUTTER MOTORS: Remote Motor Kits

SIMU Remote Motor Kit (TYPE 5)
445SK (DM45R) 50Nm; 3 Wire equiv. to 445K

*Includes (Also Sold Serarately): 60 & 70MM Crowns
 60 & 70mm Drives • Bracket; Five Channel Emitter*



SIMU Remote Motor Kit (TYPE 6)
528SK (DM59R) 100Nm; 3 Wire equiv. to 528K

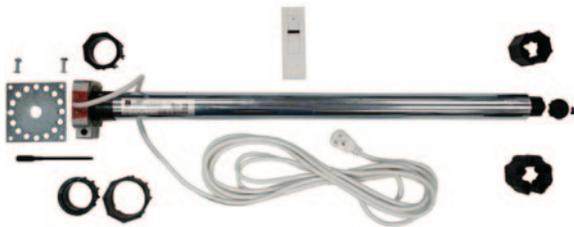
*Includes (Also Sold Serarately): 70MM Crown • 70mm Drive • Bracket
 Alt. Bracket; Five Channel Emitter*



SIMU ROLL SHUTTER MOTORS: Remote Override Motor Kits

SIMU Remote Override Motor Kit (TYPE 5)
446SK (DM45R) 50Nm; 3 Wire equiv. to 446K

*Includes (Also Sold Serarately): 60 & 70MM Crowns
 60 & 70mm Drives • Bracket; Five Channel Emitter*



SIMU Remote Override Motor Kit (TYPE 6)
527SK (DM59R) 100Nm; 3 Wire equiv. to 527K

*Includes (Also Sold Serarately): 70MM Crown • 70mm Drive • Bracket
 Five Channel Emitter*



ROLL SHUTTER MOTORS: Hz Radio Systems Accessories

Device for Home
 Automation Somfy
 myLink App
1811264 White



Hz TRANSMITTER
2006143 White
 5 Channel
 Handheld



Hz TRANSMITTER
2007350 White
 16 Channel
 Handheld



Hz TRANSMITTER
1810603 White
1810604 Ivory
 1 Channel Recessed
 Designer



Hz TRANSMITTER
1810813 White
1810606 Ivory
 5 Channel Recessed
 Designer



Hz RADIO
EXTERNAL
KEYPAD
2006029
 Up to 2 Hz Motors



Hz 2 CHANNEL
KEYCHAIN
TRANSMITTER
2005326 ref.
2008329



ROLL SHUTTER MOTORS: Miscellaneous Electronics

RELAY/ISOLATION
CONTROL
1822135 (NON STOCK)
 For 2 Switches on 1 Motor



EXTERNAL RADIO
RECEIVER (Non Stock)
1810481
 For IGC; Remote for
 Duals & Sync Kit



EXTERNAL RADIO
RECEIVER (Non Stock)
1810602
 Makes a Standard Motor
 Remote



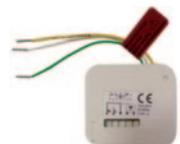
EXTERNAL SYNC.
CONTROL
 For Dual Motors
1822159 Standard IGC
1822161 (Non Stock)



GROUP RELAY
SWITCH
2282074 (Non Stock)
 2 Motors on 1 Master Switch
2282075 (Non Stock)
 3 Motors on 1 Master Switch



EXTERNAL HZ
RECEIVER
2008191
 Micro Motor 120V AC



ROLL SHUTTER MOTORS by SIMU: Standard Motors - Type 5 & 6

SIMU Motor Specifications - Single Motors (Non-Kits)

Model	Rated Torque	Output Speed	Tube Diameter	Rated Voltage	Freq.	Rated Power	Rated Current	Continuous Run Time	Protection Degree	Max Limit Turns	Theoretical Lifting Capacity**
Standard Motors (TYPE 5)											
535 - 2000648	35 Nm	18 rpm	47mm	120V	60 Hz	210W	2.1A	5 min	IP44	28	143 lbs - 172 lbs
540 - 2000652	40 Nm	12 rpm	47mm	120V	60 Hz	210W	1.8A	5 min	IP44	28	179 lbs - 195 lbs
Standard w/Override Motors (TYPE 5)											
530 - 2000774	30 Nm	12 rpm	47mm	120V	60 Hz	170W	1.5A	5 min	IP44	28	134 lbs - 148 lbs
535 - 2000771	35 Nm	18 rpm	47mm	120V	60 Hz	250W	2.1A	5 min	IP44	28	143 lbs - 172 lbs
540 - 2000775	40 Nm	12 rpm	47mm	120V	60 Hz	210W	1.8A	5 min	IP44	28	179 lbs - 195 lbs
Standard w/Override Motor											
660 - 2000985	60 Nm	14 rpm	60mm	120V	60 Hz	285W	2.5A	4 min	IP44	22	185 lbs - 268 lbs
680 - 2000986	80 Nm	14 rpm	60mm	120V	60 Hz	390W	3.4A	4 min	IP44	22	246 lbs - 358 lbs

SIMU STANDARD MOTORS (TYPE 5)

SPECIAL ORDER

535 - [2000648](#) 35 Nm
540 - [2000652](#) 40 Nm



Crowns, Drives & Brackets Sold Separately

SIMU OVERRIDE MOTORS (TYPE 5)

SPECIAL ORDER

530 - [2000774](#) 30 Nm
535 - [2000771](#) 35 Nm
540 - [2000775](#) 40 Nm

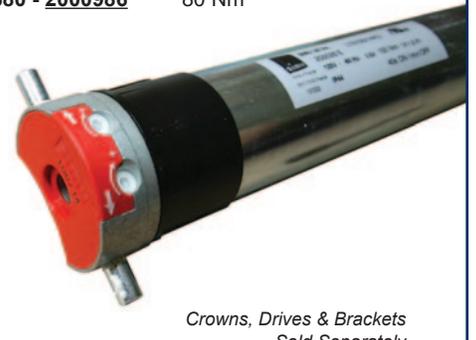


Crowns, Drives & Brackets Sold Separately

SIMU STANDARD MOTORS (TYPE 6)

SPECIAL ORDER

660 - [2000985](#) 60 Nm
680 - [2000986](#) 80 Nm



Crowns, Drives & Brackets Sold Separately

MOTOR ADAPTORS (crown & drive)

9012814 TYPE 5
60mm Octagonal Set,
Aluminum Drive Wheel



MOTOR ADAPTORS (crown & drive)

9012812 TYPE 5
70mm Octagonal Set,
Aluminum Drive Wheel



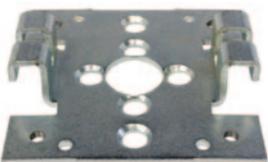
MOTOR ADAPTORS (crown & drive)

9012815 TYPE 6
70mm Octagonal Set,
Aluminum Drive Wheel



MOTOR BRACKETS

9520049 TYPE 5
Operator Bracket
80mm x 80mm square



MOTOR BRACKETS

9520187 TYPE 5
Operator Bracket
100mm x 100mm square



MOTOR BRACKETS

DZ315K TYPE 5 & 6
DMI Override Operator Bracket
ref. [9706034](#)



MOTOR BRACKETS

9530018 TYPE 6
Operator Bracket
100mm x 100mm square



ROLL SHUTTER MOTORS by SIMU: Standard Motors - Type 8

SIMU Motor Specifications - Single Motors (Non-Kits)

Model	Rated Torque	Output Speed	Tube Diameter	Rated Voltage	Freq.	Rated Power	Rated Current	Continuous Run Time	Protection Degree	Max Limit Turns	Theoretical Lifting Capacity**
Standard w/Override Motor											
T8 - 2008302	200 Nm	10 rpm	94mm	120V	60 Hz	600W	5.6A	4min	IP44	17	490 - 551 lbs
T8 - 2008303	280 Nm	10 rpm	94mm	120V	60 Hz	820W	6.9A	4min	IP44	17	686 - 771 lbs

** Lifting Capacity decreases as the height increases.

SIMU OVERRIDE MOTORS (TYPE 8)

SPECIAL ORDER

T8 - 2008302 200 Nm



To make Remote Use [1810602](#)

9001297 Drive
9018069 Bracket

Drives & Brackets
Sold Separately

SIMU SLIM OVERRIDE MOTOR (TYPE 8)

SPECIAL ORDER

T8 - 2008303 280 Nm



To make Remote Use

Smart Motor Control [2005720](#) and IGC Control [1810481](#)

9001297 Drive
9018069 Bracket

Drives & Brackets
Sold Separately

ROLL SHUTTER MOTORS by SIMU: Toggle Switches

MOTOR

ADAPTORS (drive)

9001297

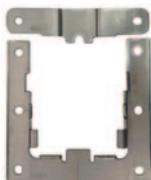
T8 94MM Round Drive
Wheel



MOTOR BRACKETS

9018069

T8 Bracket Angle
(2 piece set)



T8 IDLER SUPPORT

2003807



94MM IDLE INSERT

9542008



TOGGLE SWITCH

Single Pole Maintained

2005520

Ivory

2005521

White



TOGGLE SWITCH

Single Pole Momentary

2005522

Ivory

2005523

White



KEY SWITCHES

2001547 Maintain

2001548 Momentary

2005752*

Extra Key Blanks

*Non Stock Item



DESIGNER PADDLE SWITCHES

Single Pole Maintained

2005553

Ivory

2005554

White



DESIGNER PADDLE SWITCHES

Single Pole Momentary

2005558

Ivory

2005559

White



TEST SWITCH

2001476

Installation

Test switch



ROLL SHUTTER MOTORS by SIMU: Remote Hz Motors - Type 5

SIMU Motor Specifications - Single Motors (Non-Kits)

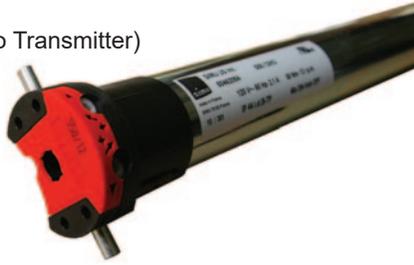
Model	Rated Torque	Output Speed	Tube Diameter	Rated Voltage	Freq.	Rated Power	Rated Current	Continuous Run Time	Protection Degree	Max Limit Turns	Theoretical Lifting Capacity**
Remote Motor											
520 - 2006353	35 Nm	12 rpm	47mm	120V	60 Hz	130W	1.1A	5 min	IP44	28	82 lbs - 100 lbs
530 - 2005136	30 Nm	12 rpm	47mm	120V	60 Hz	170W	1.5A	5 min	IP44	28	123 lbs - 148 lbs
535 - 2005135	35 Nm	18 rpm	47mm	120V	60 Hz	250W	2.1A	5 min	IP44	28	143 lbs - 172 lbs
Remote w/Override Motor											
530 - 2004673	30 Nm	12 rpm	47mm	120V	60 Hz	170W	1.5A	5 min	IP44	28	123 lbs - 148 lbs
535 - 2004674	35 Nm	18 rpm	47mm	120V	60 Hz	250W	2.1A	5 min	IP44	28	143 lbs - 172 lbs

** Lifting Capacity decreases as the height increases

REMOTE Hz (TYPE 5) SPECIAL ORDER

- [520 - 2006353](#) 20 Nm
- [530 - 2005136](#) 30 Nm (No Transmitter)
- [535 - 2005135](#) 35 Nm

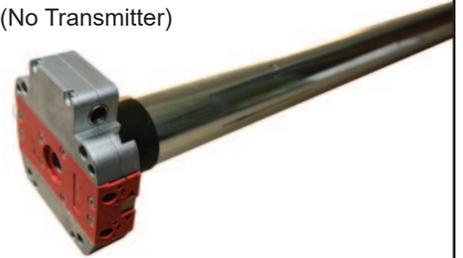
Crowns, Drives
& Brackets Sold
Separately



REMOTE Hz OVERRIDE MOTORS (TYPE 5) SPECIAL ORDER

- [530 - 2004673*](#) 30 Nm (No Transmitter)
- [535 - 2004674](#) 35 Nm

Crowns, Drives
& Brackets Sold
Separately



ROLL SHUTTER MOTORS: Hz Radio Systems Accessories

MOTOR ADAPTORS

(crown & drive)
[9012814](#) TYPE 5
60mm Octagonal Set,
Aluminum Drive Wheel



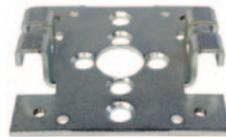
MOTOR ADAPTORS

(crown & drive)
[9012812](#) TYPE 5
70mm Octagonal Set,
Aluminum Drive Wheel



MOTOR BRACKETS

[9520049](#) TYPE 5
Operator Bracket
80mm x 80mm square



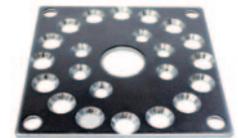
MOTOR BRACKETS

[9520187](#) TYPE 5
Operator Bracket
100mm x 100mm square



MOTOR BRACKETS

[DZ315K](#) TYPE 5
DMI Override Operator
Bracket
ref. [9706034](#)



Device for Home
Automation Somfy
myLink App
[1811264](#) White



Hz TRANSMITTER
[2006143](#) White
5 Channel
Handheld



Hz TRANSMITTER
[2007350](#) White
16 Channel
Handheld



Hz TRANSMITTER
[1810603](#) White
[1810604](#) Ivory
1 Channel Recessed
Designer



Hz TRANSMITTER
[1810813](#) White
[1810606](#) Ivory
5 Channel Recessed
Designer



Hz RADIO
EXTERNAL
KEYPAD
[2006029](#)
Up to 2 Hz Motors



Hz 2 CHANNEL
KEYCHAIN
TRANSMITTER
[2005326](#) ref.
[2008329](#)



RELAY/ISOLATION
CONTROL
[1822135](#) (NON STOCK)
For 2 Switches on 1 Motor



EXTERNAL RADIO
RECEIVER (Non Stock)
[1810481](#)
For IGC; Remote for
Duals & Sync Kit



EXTERNAL RADIO
RECEIVER (Non Stock)
[1810602](#)
Makes a Standard Motor
Remote



EXTERNAL SYNC.
CONTROL
For Dual Motors
[1822159](#) Standard IGC
[1822161](#) (Non Stock)



GROUP RELAY
SWITCH
[2282074](#) (Non Stock)
2 Motors on 1 Master Switch
[2282075](#) (Non Stock)
3 Motors on 1 Master Switch

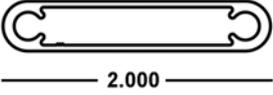
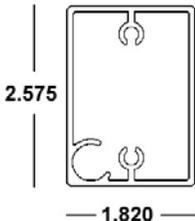
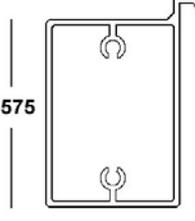
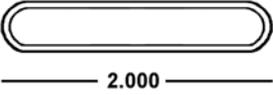
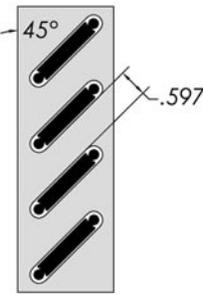
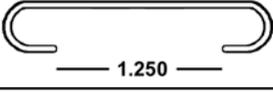
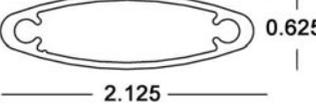
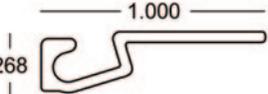


EXTERNAL HZ
RECEIVER
[2008191](#)
Micro Motor 120V AC



HIGH VISIBILITY™ BAHAMA/COLONIAL SYSTEM

Code Approvals: FBC (non-HVHZ)

<p>Bahama/Colonial Hollow Blade x 16' Mill Finish 80-MF-013 uses #14 screw</p>  <p>2.000</p>	<p>HV™ Bahama/Colonial Horizontal Frame x 20' 41-63-819 Mill Finish</p>  <p>2.575 1.820</p>	<p>HV™ Bahama Horizontal Frame x 20' 41-63-826 Mill Finish</p>  <p>2.575 1.820</p>	<p>2.33 x 2 HV™ Bahama/Colonial Center Mullion x 12' Mill Finish Punched 41-63-818P 2" Blade (shown) 41-63-818PA 2-1/8" Airfoil</p> 		
<p>Bahama Decorative Blade x 16' Mill Finish 41-63-830 (Non-Impact)</p>  <p>2.000</p>	 <p>45° .597</p> <p>High Visibility 2" Blade Typical Angularity & Spacing</p>	<p>2.33 x 2 HV™ Bahama/Colonial Side Frame x 20' 7" Mill Finish 41-63-823L (Punched-Left) 41-63-823R (Punched-Right)</p> 	<p>2.33 x 2" HV™ Bahama/Colonial Air Foil Side Frame x 20' 7" SPECIAL ORDER (Mill Finish) Accepts 2-1/8" Airfoil Blade 56-63-200 41-63-823LA (Punched-Left) 41-63-823RA (Punched-Right)</p> 		
<p>Colonial Decorative Blade x 16' Mill Finish 41-63-835 (Non-Impact)</p>  <p>2.000 1.250</p>	<p>18/14 Charcoal Screen 100' Rolls 200-CC-025 36" 200-CC-024 60" 200-CC-026 72" 200-CC-027 78" 200-CC-028 84" 200-CC-034 90" 200-CC-029 96" 200-CC-023 102" 200-CC-030 108"</p> <p>Flat Spline Roller 200-SR-10</p> 	<p>HV™ Colonial Wood Hinge 2" 41-63-843 Wall Mount 1 pc Mill Finish</p> 	<p>HV™ Colonial Concrete Hinge 2" 41-63-844 Wall Mount 1 pc Mill Finish</p> 	<p>HV™ Colonial Flat Hinge 2" 41-63-845 Wall Mount 1 pc Mill Finish</p> 	<p>HV™ Colonial Storm Bar Clip Shutter Mount 1pc 41-63-840 Mill Finish 41-63-840WH White 41-63-840BK Black 41-63-840MB Bronze</p> 
<p>2-1/8" Bahama/Colonial Air Foil Blade x 16' Mill Finish 56-63-200 uses #14 screw</p>  <p>2.125 0.625</p>	<p>Bahama/Colonial Screen Frame x 12' Mill Finish 41-63-859 with Spline Groove</p>  <p>1.000 .268</p>				

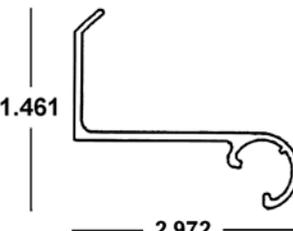
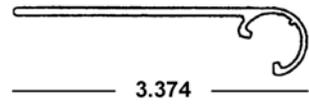
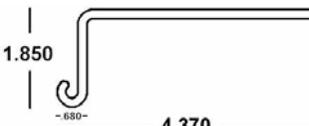
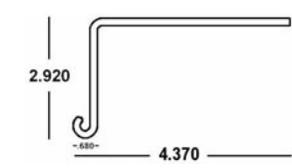
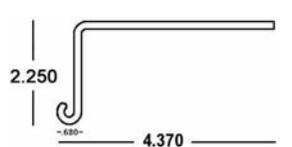
HIGH VISIBILITY™ BAHAMA/COLONIAL COVERAGE CHART - Additional heights available upon request.

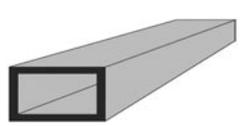
visible blades	finished height"										
1	6-7/8	18	30-1/4	35	53-5/8	52	77	69	100-3/8	86	123-3/4
2	8-1/4	19	31-5/8	36	55	53	78-3/8	70	101-3/4	87	125-1/8
3	9-5/8	20	33	37	56-3/8	54	79-3/4	71	103-1/8	88	126-1/2
4	11	21	34-3/8	38	57-3/4	55	81-1/8	72	104-1/2	89	127-7/8
5	12-3/8	22	35-3/4	39	59-1/8	56	82-1/2	73	105-7/8	90	129-1/4
6	13-3/4	23	37-1/8	40	60-1/2	57	83-7/8	74	107-1/4	91	130-5/8
7	15-1/8	24	38-1/2	41	61-7/8	58	85-1/4	75	108-5/8	92	132
8	16-1/2	25	39-7/8	42	63-1/4	59	86-5/8	76	110	93	133-3/8
9	17-7/8	26	41-1/4	43	64-5/8	60	88	77	111-3/8	94	134-3/4
10	19-1/4	27	42-5/8	44	66	61	89-3/8	78	112-3/4	95	136-1/8
11	20-5/8	28	44	45	67-3/8	62	90-3/4	79	114-1/8	96	137-1/2
12	22	29	45-3/8	46	68-3/4	63	92-1/8	80	115-1/2	97	138-7/8
13	23-3/8	30	46-3/4	47	70-1/8	64	93-1/2	81	116-7/8	98	140-1/4
14	24-3/4	31	48-1/8	48	71-1/2	65	94-7/8	82	118-1/4		
15	26-1/8	32	49-1/2	49	72-7/8	66	96-1/4	83	119-5/8		
16	27-1/2	33	50-7/8	50	74-1/4	67	97-5/8	84	121		
17	28-7/8	34	52-1/4	51	75-5/8	68	99	85	122-3/8		



HIGH VISIBILITY™ BAHAMA/COLONIAL SYSTEM

Code Approvals: FBC (non-HVHZ)

<p>HV™ Female Bahama Hinge x 20' 41-63-836 Mill Finish</p> 	<p>Bahama Female Flat Hinge x 20' 41-63-805 Mill Finish 6 pcs Ceiling Mount</p> 	<p>Colonial Single Hinge x 12' Mill Finish 6 pcs 41-63-816 Wall Mount Mates with 41-63-824N</p> 	<p>Colonial Double Hinge x 12' Mill Finish 4 pcs; Wall Mount 41-63-813 Mates with 41-63-824N</p>  <p>2.25 Colonial Double Hinge x 12' Mill Finish 4 pcs; Wall Mount 52-61-4146 Mates with 41-63-824N</p> 
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<p>Colonial Flat Hinge x 12' Wall Mount Mill Finish 6 pcs 41-63-811 Mates with 41-63-824N</p>  <p>Colonial Flat Hinge x 12' Shutter Mount Mill Finish 6 pcs 41-63-824N Mates with 41-63-816, 41-63-813, 41-63-811, 41-63-824N</p> 	<p>HV™ Bahama Hold Down Bracket 4" WOOD Wall Mount Storm Bar Clips Set: 1 pc right & 1 pc left 41-63-841 Mill Finish 41-63-841WH White 41-63-841BK Black 41-63-841MB Bronze</p> 	<p>HV™ Bahama Hold Down Bracket 4" CONCRETE Wall Mount Storm Bar Clips 1 pc 41-63-842 Mill Finish 41-63-842WH White 41-63-842BK Black 41-63-842MB Bronze</p> 	<p>Telescoping Serrated Tube x 20' Mill Finish 52-63-537 .875" 26 pcs 51-63-381 1.000" 32 pcs</p> 	<p>1 x 2 x 1/8 Storm Bar x 24' 20-63-225 Mill Finish 20-WH-231 White 20-MB-231 Bronze 20-IV-231 Ivory 20-BG-231 Beige</p> <p>1 x 3 x 1/8 Storm Bar x 24' 20-63-230 Mill Finish 20-WH-230 White 20-IV-230 Ivory 20-BG-230 Beige</p>  <p>1 x 3 x 1/8 x 24' Radius Corner Stock Also Available: 20-63-689 (NC/TX) Mill Finish</p>
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1" SLIP COLLAR WITH THUMB SCREW
Accepts 1" Serrated Tube for Telescoping Arms
7000 (FL/TX) Mill Finish x 9/16"
7000WH White x 9/16"
7000BK Black x 9/16"
7000MB Bronze x 9/16"
52-00-139 (TX) Mill Finish x 9/16" (No Thumbscrew)
MILL ORDER 52-63-2484 Mill Finish x 20' (No Thumbscrew)
41014 (TX) 1/4-20 x 3/4 Thumbscrew (mates with 52-00-139)
41021 (TX) 1/4-20 x 1 Thumbscrew (mates with 52-00-139)



CAMEL BACK CLIP WITH PIN
7001 Mill Finish
7001WH White
7001BK Black
7001MB Bronze



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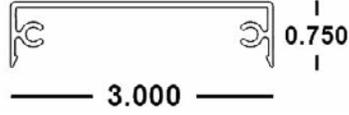
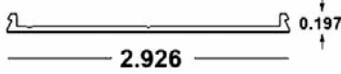
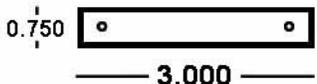
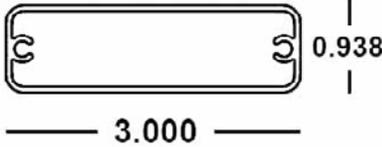
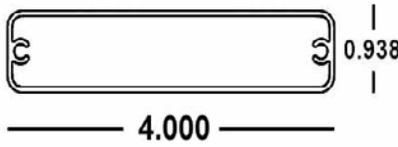
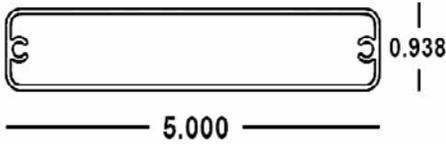
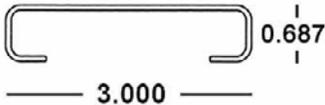
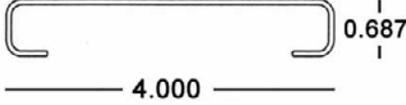
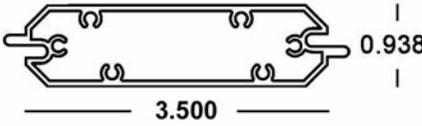
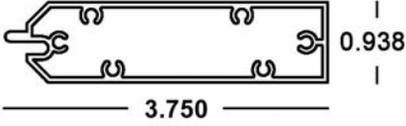
HV™ Bahama Telescoping Arm Kit
Kit includes 2 Tubes, Slip Collar, Camel Back, Cap and U-Clip.
(Approximate Max Extended Length shown in parenthesis)

Code	Arm Size (Extended)	Finish	Code	Arm Size (Extended)	Finish
7002K	12"	(23") MF	7017K	30"	(59") MF
7002KWH	12"	(23") White	7017KWH	30"	(59") White
7002KBK	12"	(23") Black	7017KBK	30"	(59") Black
7002KMB	12"	(23") Bronze	7017KMB	30"	(59") Bronze
7003K	18"	(35") MF	7018K	36"	(71") MF
7003KWH	18"	(35") White	7018KWH	36"	(71") White
7003KBK	18"	(35") Black	7018KBK	36"	(71") Black
7003KMB	18"	(35") Bronze	7018KMB	36"	(71") Bronze
7004K	24"	(47") MF			
7004KWH	24"	(47") White			
7004KBK (FL/TX)	24"	(47") Black			
7004KMB	24"	(47") Bronze			




HV™ BOARD & BATTEN COLONIAL SYSTEM

Code Approvals: FBC (non-HVHZ)

<p>HV™ Board & Batten Snap Channel x 12' 40-63-721 6063 T6 M/F</p> 	<p>HV™ Board & Batten Snap Cap x 12' 40-63-720 6063 T6 M/F</p> 	<p>HV™ Board & Batten End Cap - Flat Bar 40-63-726 3/4 x 3 x .062' (with holes) - 6063 T52 M/F</p> 		
<p>HV™ Board & Batten 3" Radius Tube x 24' 40-63-722 6063 T6 M/F</p> 	<p>HV™ Board & Batten 4" Radius Tube x 24' 40-63-724 6063 T6 M/F</p> 	<p>HV™ Board & Batten 5" Radius Tube x 24' 40-63-723 6063 T6 M/F</p> 		
	<p>3" Decorative Slat x 24' Board & Batten 8736-001 (TX) Mill Finish</p>  <p>Non-Rated</p>	<p>4" Decorative Slat x 24' Board & Batten 8736-002 (TX) Mill Finish</p>  <p>Non-Rated</p>		
	<p>3.5" Tongue & Groove Slat x 24' 40-63-727 6063 T6 M/F</p>  <p>Non-Rated</p>	<p>Tongue & Groove End Slat x 24' 40-63-728 6063 T6 M/F</p>  <p>Non-Rated</p>		
	<p>2" Concrete Hinge 41-63-847 1pc 6063 T6 M/F</p> 	<p>2" Wood Hinge 41-63-848 1pc 6063 T6 M/F</p> 	<p>2" Flat Hinge 41-63-846 (4 Holes) 41-63-849 (5.99 x 2 Holes) 1pc 6063 T6 M/F</p> 	<p>2" Bi-Fold Hinge 41-63-844 1pc 6063 T6 M/F</p> 



BERTHA™ IMPACT RATED EXTRUDED BAHAMA/COLONIAL SYSTEM

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

Colonial/Bahama Blade x 12'6"

41-63-799N M/F (Non-Vented)
41-63-800N M/F (Vented)
Both mate with 41-1/2-799N
6 pcs



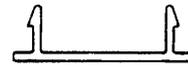
Colonial/Bahama Top Half Blade x 12'6"

41-1/2-799N
Mill Finish *Mates with 41-63-799N and 41-63-800N*



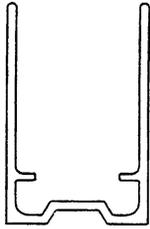
Bahama Snap Cap x 20'

41-63-808 Mill Finish 20 pcs



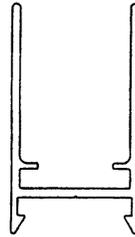
Colonial Frame x 20'

41-63-802 Mill Finish
6 pcs



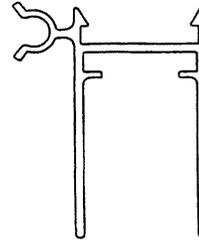
Colonial/Bahama Frame x 20'

41-63-806 Mill Finish
8 pcs



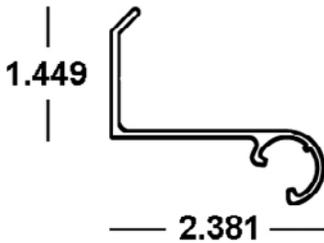
Hinged Bahama Top Frame x 20'

41-63-807 Mill Finish
4 pcs



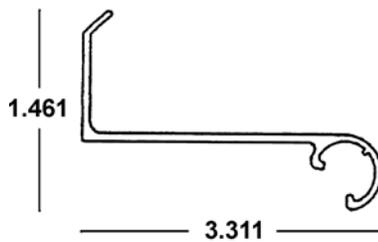
Female Bahama Hinge x 20'

41-63-803 Mill Finish



3.311 Female Bahama Hinge x 20'

41-63-804 Mill Finish



HV™ Bahama Telescoping Arm Kit

*Kit includes 2 Tubes, Slip Collar, Camel Back, Cap and U-Clip.
(Approximate Max Extended Length shown in parenthesis)*

Code Arm Size (Extended) Finish

7002K 12" (23") MF
7002KWH 12" (23") White
7002KBK 12" (23") Black
7002KMB 12" (23") Bronze

7003K 18" (35") MF
7003KWH 18" (35") White
7003KBK 18" (35") Black
7003KMB 18" (35") Bronze

7004K 24" (47") MF
7004KWH 24" (47") White
7004KBK (FLTX) 24" (47") Black
7004KMB 24" (47") Bronze

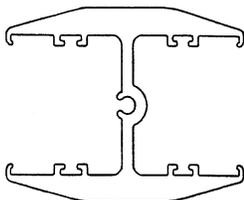
7017K 30" (59") MF
7017KWH 30" (59") White
7017KBK 30" (59") Black
7017KMB 30" (59") Bronze

7018K 36" (71") MF
7018KWH 36" (71") White
7018KBK 36" (71") Black
7018KMB 36" (71") Bronze



Standard Center Mullion x 20'

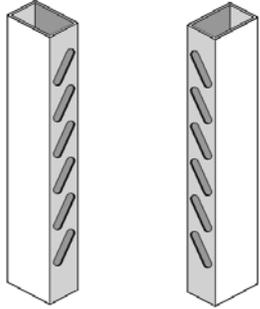
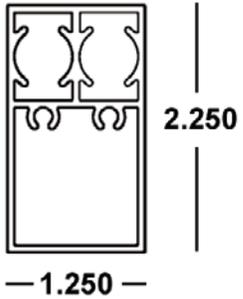
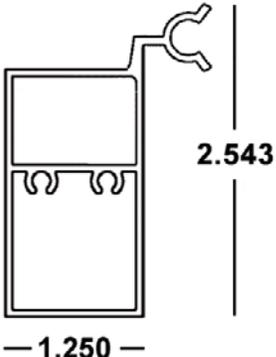
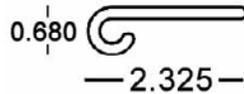
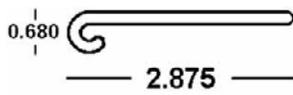
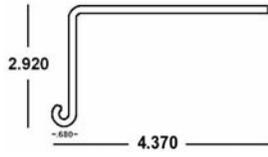
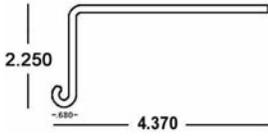
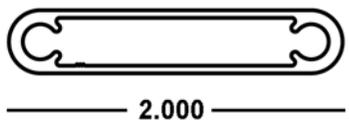
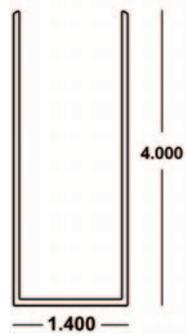
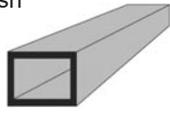
41-63-809 Mill Finish
3 pcs



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BRICKHOUSE LOW PROFILE BAHAMA/COLONIAL SYSTEM

<p>1.46 x 2.25 Brickhouse Low Profile Side Rail x 20' Mill Finish 20-63-805L (TX) Left Side Punched 20-63-805R (TX) Right Side Punched Left Side Right Side</p> 	<p>1.46 x 2.25 Brickhouse Low Profile Center Mullion x 20' 20-63-805M (TX) Mill Finish Both Sides Punched</p> 	<p>Brickhouse Low Profile Top/Bottom Rail 41-63-839 (TX) x 20' Mill Finish 41-63-832 x 20' 3" Mill Finish</p> 
<p>Brickhouse Low Profile Bahama Top Rail w/Hinge x 20' 41-63-849 (TX) Mill Finish</p> 	<p>Brickhouse Low Profile Colonial Flat Hinge x 12' 41-63-824 (TX) Mill Finish For Bi-Fold Application</p>  <p>Colonial Flat Hinge x 12' 41-63-824N Shutter to House Mount Mill Finish Mates with 41-63-813, 41-63-824N</p> 	<p>Colonial Double Hinge x 12' Mill Finish 4 pcs; Wall Mount 41-63-813 Mates with 41-63-824N</p>  <p>2.25 Colonial Double Hinge x 12' Mill Finish 4 pcs; Wall Mount 52-61-4146 Mates with 41-63-824N</p> 
<p>Brickhouse Low Profile Blade x 16' 80-MF-013 Mill Finish</p> 	<p>Brickhouse Low Profile 4" New Orleans Style Center Mullion x 21' MILL ORDER <u>41-63-863</u> For Non-Impact Decorative Applications Only</p> 	<p>Brickhouse Low Profile Colonial Storm Bar x 24' 1 x 2 x 1/8 Rect Bar x 24" 20-63-225 Mill Finish 20-WH-231 White 20-MB-231 Bronze 20-IV-231 Ivory 20-BG-231 Beige</p>  <p>HV™ Colonial Storm Bar Clip 1pc/Shutter Mount 41-63-840 Mill Finish 41-63-840WH White 41-63-840BK Black 41-63-840MB Bronze</p> 



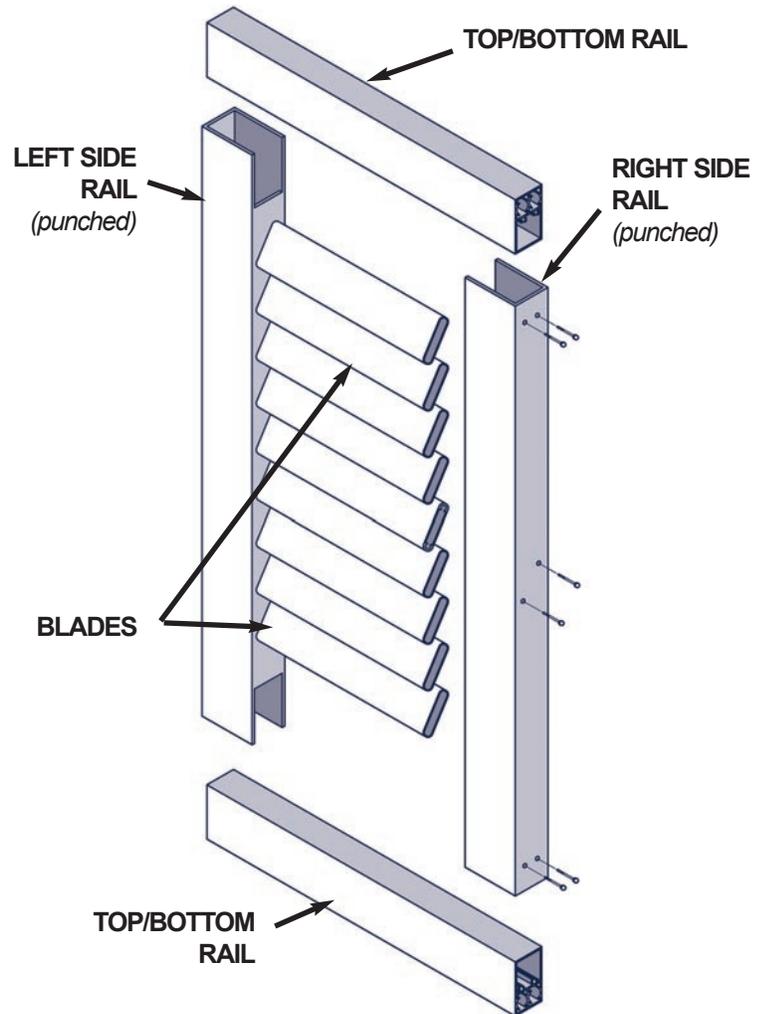
BRICKHOUSE LOW PROFILE BAHAMA/COLONIAL SYSTEM

FEATURES & BENEFITS:

- Colonial application tested to ASTM E 330, E 1886 & E 1996 Protocols and passed the Large Missile Impact Test as well as +/- 60 psf for both the Design and Static Load Testing.
- Colonial application meets or exceeds standards for TDI (engineered drawings available).
- Offers the appearance of a more decorative, thin-lined traditional shutter.
- Increase LEED Rating of your "Green" Project
- Cost effective for commercial applications
- New pre-fabbed side rails & mullions eliminate need to mechanically fasten the blades, resulting in labor reduction of over 50% compared to traditional Colonial shutter assemblies
- Easy & Fast mechanical frame fastening assembly resulting in a functional product
- Provided in mill finish to allow the fabricator the flexibility to match colors to the building design after assembly
- Upscale look providing a durable product for years to come with little maintenance

Colonial Schematic

(Bahama not shown)



Brickhouse Low Profile Bahama Colonial coverage chart - Additional heights available upon request.

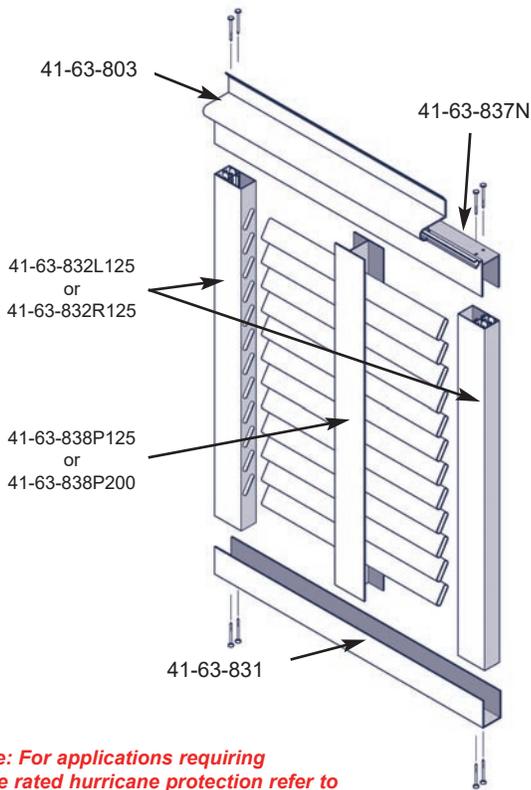
visible blades	finished height"								
9	21 1/2	20	40 1/8	31	58 11/16	42	77 5/16	53	95 15/16
10	23 3/16	21	41 13/16	32	60 3/8	43	79	54	97 5/8
11	24 7/8	22	43 1/2	33	62 1/8	44	80 11/16	55	99 19/64
12	26 9/16	23	45 3/16	34	63 13/16	45	82 3/8	56	100
13	28 1/4	24	46 7/8	35	65 1/2	46	84 1/16	57	102 11/16
14	29 15/16	25	48 9/16	36	67 3/16	47	85 3/4	58	104 3/8
15	31 5/8	26	50 1/4	37	68 7/8	48	87 7/16	59	106 1/16
16	33 3/8	27	51 15/16	38	70 9/16	49	89 1/8	60	107 3/4
17	35 1/16	28	53 5/8	39	72 1/4	50	90 13/16	61	109 7/16
18	36 3/4	29	55 5/16	40	73 15/16	51	92 9/16		
19	38 7/16	30	57	41	75 5/8	52	94 1/4		



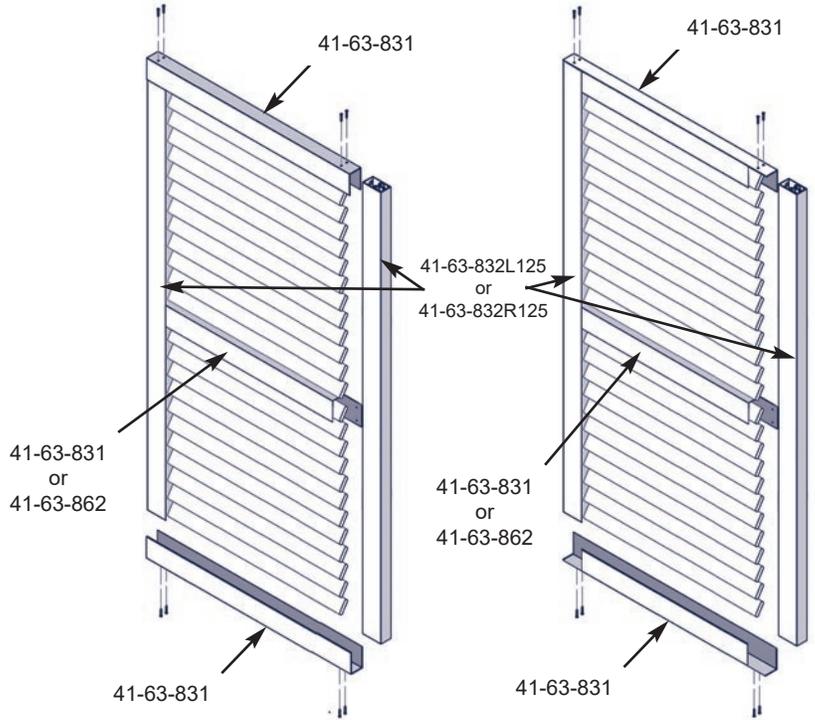
HV LOW PROFILE DECORATIVE BAHAMA/COLONIAL SYSTEMS*

*Currently available for decorative applications

HV Low Profile Bahama Schematic (Exterior View)

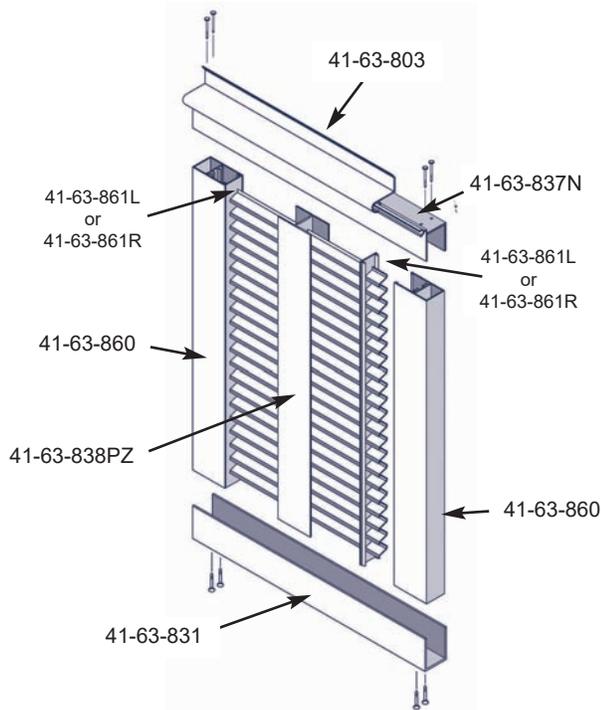


Note: For applications requiring code rated hurricane protection refer to EMS High Visibility Bahama/Colonial product.

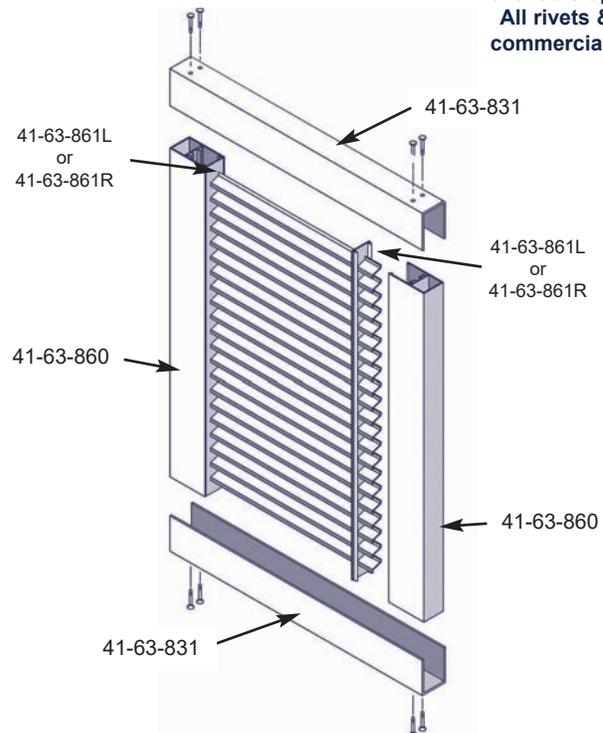


HV Low Profile Colonial Schematics (Exterior Views)

HV Low Profile Z-Blade System Schematic



Decorative Bahama Application (Exterior View)



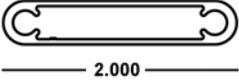
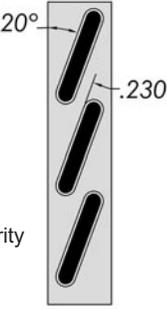
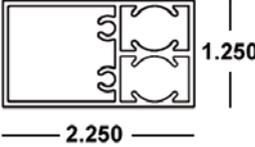
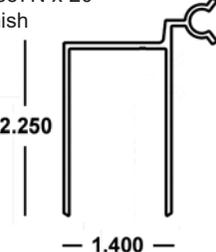
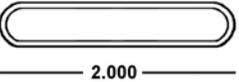
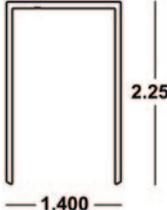
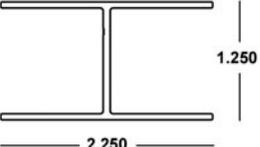
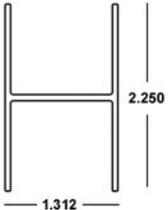
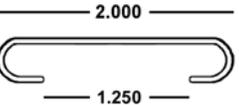
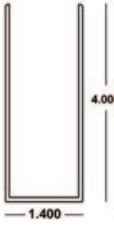
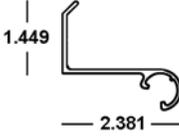
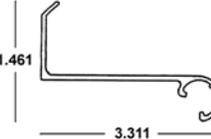
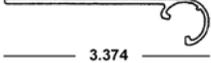
Decorative Colonial Application (Exterior View)

Decorative Engineering available upon request. All rivets & screws are commercially available.



2" HV LOW PROFILE DECORATIVE BAHAMA/COLONIAL SYSTEMS*

*Currently available for decorative applications

<p>2" Bahama/Colonial Hollow Blade x 16' 80-MF-013 Mill Finish Uses #14 screw</p> 	<p>20° 2.230</p>  <p>Low Profile 2" Blade Typical Angularity & Spacing</p>	<p>Low Profile Side Frame x 20' 3" 41-63-832 UNPUNCHED 41-63-832L200 PUNCHED Left* 41-63-832R200 PUNCHED Right* Mill Finish *Punched for 2" Blades</p> 	<p>LOW PROFILE MALE BAHAMA FRAME HINGE 41-63-837N x 20' Mill Finish</p> 	
<p>2" Bahama Decorative Blade x 16' (Non-Impact) 41-63-830 Mill Finish</p> 	<p>Low Profile Horizontal Frame x 21' 41-63-831 Mill Finish Can be used as Bottom Frame & Center Mullion; Colonial Top Frame</p> 	<p>Low Profile Bahama Vertical Center Mullion x 20' 3" 41-63-838 UNPUNCHED 41-63-838P200 PUNCHED* Mill Finish *Punched for 2" Blades</p> 	<p>Low Profile Colonial Horizontal Rail x 16' 2" 41-63-862 Mill Finish Horizontal Rail for Colonials</p> 	
<p>2" Colonial Decorative Blade x 16' (Non-Impact) 41-63-835 Mill Finish</p> 	<p>Alternate New Orleans Style 4" Bottom Rail Colonial Applications MILL ORDER 41-63-863</p> 	<p>BAHAMA FEMALE HINGE x 20' 41-63-803 Mill Finish 6 pcs</p> 	<p>1" BUILD-OUT BAHAMA FEMALE HINGE x 20' 41-63-804 Mill Finish 6 pcs</p> 	<p>BAHAMA FEMALE FLAT HINGE x 20' 41-63-805 Mill Finish 6 pcs</p> 

2" Low Profile Bahama Colonial coverage chart

Additional heights available upon request. Blades continue inside top & bottom channel.

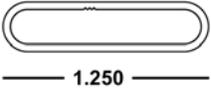
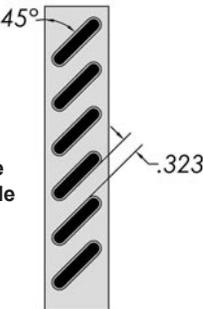
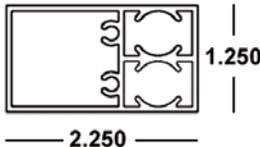
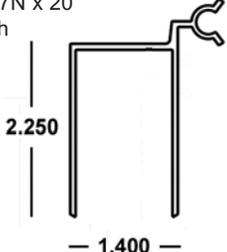
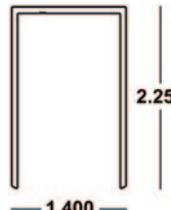
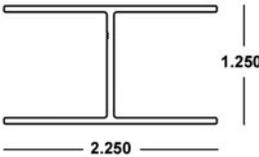
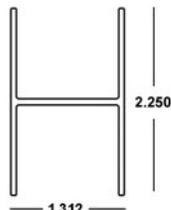
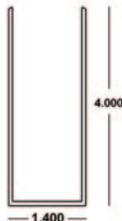
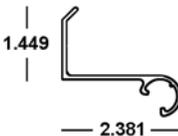
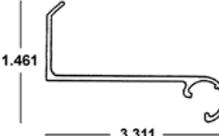
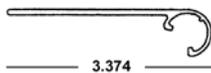
For Hinges & Components see Hurricane pp 35-36

visible blades	total blades	finished height"	visible blades	total blades	finished height"	visible blades	total blades	finished height"	visible blades	total blades	finished height"
4	6	11-3/4	17	19	35-1/4	30	32	58-13/16	43	45	82-5/16
5	7	13-9/16	18	20	37-1/16	31	33	60-5/8	44	46	84-1/8
6	8	15-3/8	19	21	38-7/8	32	34	62-7/16	45	47	85-15/16
7	9	17-3/16	20	22	40-11/16	33	35	64-1/4	46	48	87-3/4
8	10	19	21	23	42-1/2	34	36	66-1/16	47	49	89-9/16
9	11	20-13/16	22	24	44-5/16	35	37	67-7/8	48	50	91-3/8
10	12	22-5/8	23	25	46-1/8	36	38	69-11/16	49	51	93-3/16
11	13	24-7/16	24	26	47-15/16	37	39	71-1/2	50	52	95
12	14	26-1/4	25	27	49-3/4	38	40	73-1/4	51	53	96-13/16
13	15	28	26	28	51-9/16	39	41	75-1/16	52	54	98-5/8
14	16	29-13/16	27	29	53-3/8	40	42	76-7/8			
15	17	31-5/8	28	30	55-3/16	41	43	78-11/16			
16	18	33-7/16	29	31	57	42	44	80-1/2			



1-1/4" HV LOW PROFILE DECORATIVE BAHAMA/COLONIAL SYSTEMS*

*Currently available for decorative applications

<p>1-1/4" HV LOW PROFILE BLADE x 12' 41-63-834 Mill Finish</p> 	<p>Low Profile 1-1/4" Blade Typical Angularity & Spacing</p> 	<p>HV LOW PROFILE SIDE FRAME x 20' 3" 41-63-832 UNPUNCHED 41-63-832L125 PUNCHED Left* 41-63-832R125 PUNCHED Right* Mill Finish *Punched for 1-1/4" Blades</p> 	<p>HV LOW PROFILE MALE BAHAMA HINGE 41-63-837N x 20' Mill Finish</p> 
<p>Low Profile Horizontal Frame x 21' 41-63-831 Mill Finish <i>Can be used as Bottom Frame & Center Mullion; Colonial Top Frame</i></p> 	<p>HV LOW PROFILE BAHAMA VERTICAL CENTER MULLION x 20' 3" 41-63-838 UNPUNCHED 41-63-838P125 PUNCHED* Mill Finish *Punched for 1-1/4" Blades</p> 	<p>HV LOW PROFILE COLONIAL HORIZONTAL RAIL x 16' 2" 41-63-862 Mill Finish <i>Horizontal Rail for Colonials</i></p> 	
<p>Alternate New Orleans Style 4" Bottom Rail Colonial Applications MILL ORDER 41-63-863</p> 	<p>BAHAMA FEMALE HINGE x 20' 41-63-803 Mill Finish 6 pcs</p> 	<p>1" BUILD-OUT BAHAMA FEMALE HINGE x 20' 41-63-804 Mill Finish 6 pcs</p> 	<p>BAHAMA FEMALE FLAT HINGE x 20' 41-63-805 Mill Finish 6 pcs</p> 

1-1/4" Low Profile Bahama Colonial coverage chart

Additional heights available upon request. Blades continue inside top & bottom channel.

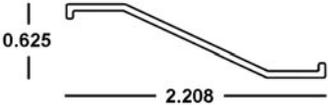
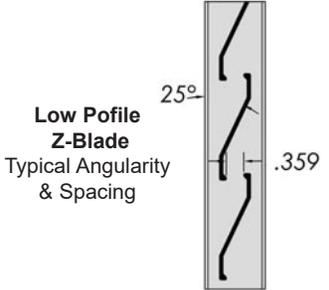
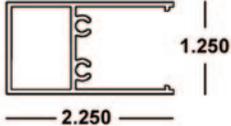
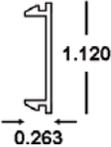
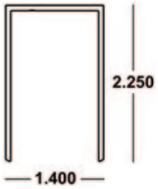
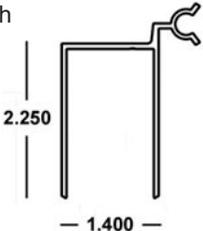
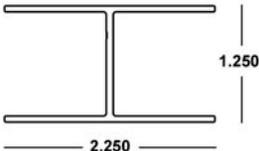
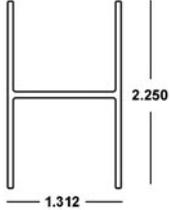
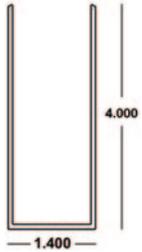
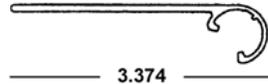
For Hinges & Components see Hurricane pp 35-36

visible blades	total blades	finished height"	visible blades	total blades	finished height"	visible blades	total blades	finished height"	visible blades	total blades	finished height"
18	22	20-3/8	30	34	30-15/16	42	46	41-9/16	54	58	52-1/8
19	23	21-1/4	31	35	31-13/16	43	47	42-7/16	55	59	53
20	24	22-1/8	32	36	32-3/4	44	48	43-5/16	56	60	53-7/8
21	25	23	33	37	33-5/8	45	49	44-3/16	57	61	54-3/4
22	26	23-7/8	34	38	34-1/2	46	50	45-1/16	58	62	55-5/8
23	27	24-13/16	35	39	35-3/8	47	51	45-15/16	59	63	56-9/16
24	28	25-11/16	36	40	36-1/4	48	52	46-13/16	60	64	57-7/16
25	29	26-9/16	37	41	37-1/8	49	53	47-11/16	61	65	58-5/16
26	30	27-7/16	38	42	38	50	54	48-5/8	62	66	59-3/16
27	31	28-5/16	39	43	38-7/8	51	55	49-1/2	63	67	60-1/16
28	32	29-3/16	40	44	39-3/4	52	56	50-3/8			
29	33	30-1/16	41	45	40-11/16	53	57	51-1/4			



HV LOW PROFILE DECORATIVE BAHAMA/COLONIAL Z-BLADE SYSTEM*

*Currently available for decorative applications

<p>HV LOW PROFILE Z-BLADE x 12' 2" 52-63-060 Mill Finish for Z-Blade System</p> 	<p>Low Profile Z-Blade Typical Angularity & Spacing</p> 	<p>HV LOW PROFILE VERTICAL FRAME WITH SNAP x 16' 2" 41-63-860 Mill Finish Mates with 41-63-861R/L for Z-Blade System</p> 	<p>HV LOW PROFILE Z - SNAP PLATE x 16' 2" Mill Finish Mates with 41-63-860 41-63-861R PUNCHED* Right 41-63-861L PUNCHED* Left *Punched to accept Z-Blade</p> 
<p>HV LOW PROFILE HORIZONTAL FRAME x 21' 41-63-831 Mill Finish</p> <p>Can be used as Bottom Frame & Center Mullion; Colonial Top Frame</p> 	<p>HV LOW PROFILE MALE BAHAMA HINGE x 20' 41-63-837N Mill Finish</p> 	<p>HV LOW PROFILE BAHAMA VERTICAL CENTER MULLION x 20' 3" 41-63-838 UNPUNCHED 41-63-838PZ PUNCHED* Mill Finish *Punched to accept Z-Blade</p> 	<p>HV LOW PROFILE COLONIAL HORIZONTAL RAIL x 16' 2" 41-63-862 Mill Finish Horizontal Rail for Colonials</p> 
<p>Alternate New Orleans Style 4" Bottom Rail Colonial Applications MILL ORDER 41-63-863</p> 	<p>BAHAMA FEMALE HINGE x 20' 41-63-803 Mill Finish 6 pcs</p> 	<p>1" BUILD-OUT BAHAMA FEMALE HINGE x 20' 41-63-804 Mill Finish 6 pcs</p> 	<p>BAHAMA FEMALE FLAT HINGE x 20' 41-63-805 Mill Finish 6 pcs</p> 

Low Profile Bahama Colonial Z-BLADE coverage chart

Additional heights available upon request. Blades continue inside top & bottom channel.

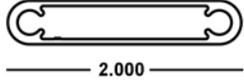
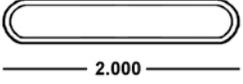
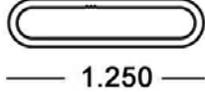
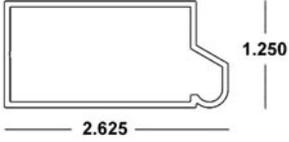
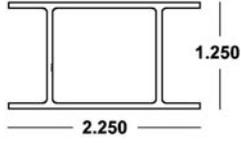
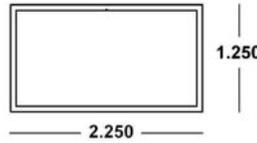
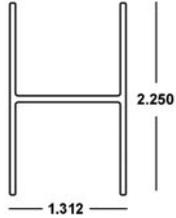
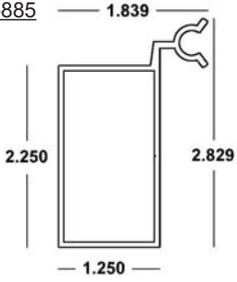
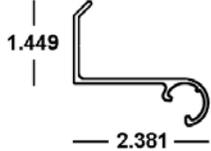
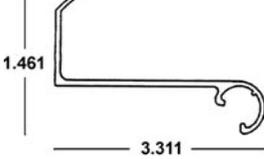
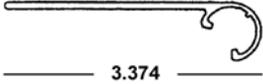
For Hinges & Components see Hurricane pp 35-36

visible blades	total blades	finished height"	visible blades	total blades	finished height"	visible blades	total blades	finished height"	visible blades	total blades	finished height"
11	13	27-7/16	26	28	58-11/16	41	43	89-7/8	56	58	121-1/8
12	14	29-1/2	27	29	60-3/4	42	44	92	57	59	123-1/4
13	15	31-9/16	28	30	62-3/16	43	45	94-5/8	58	60	125-3/8
14	16	33-11/16	29	31	64-15/16	44	46	96-1/8	59	61	127-3/8
15	17	35-3/4	30	32	67	45	47	98-1/4	60	62	129-1/2
16	18	37-3/16	31	33	69-1/16	46	48	100-5/16	61	63	131-5/8
17	19	39-15/16	32	34	71-1/8	47	49	102-3/8	62	64	133-5/8
18	20	42	33	35	73-1/4	48	50	104-1/2	63	65	135-3/4
19	21	44-1/16	34	36	75-5/16	49	51	106-5/8	64	66	137-3/4
20	22	46-3/16	35	37	77-3/8	50	52	108-5/8	65	67	139-7/8
21	23	48-1/4	36	38	79-1/2	51	53	110-3/4	66	68	142
22	24	50-5/16	37	39	81-9/16	52	54	112-7/8	67	69	144
23	25	52-7/16	38	40	83-5/8	53	55	114-7/8			
24	26	54-1/2	39	41	85-3/4	54	56	117			
25	27	56-9/16	40	42	87-13/16	55	57	119-1/8			



HV LOW PROFILE DECORATIVE BAHAMA/COLONIAL WELDED SYSTEM*

*Currently available for decorative applications

<p>2" Bahama/Colonial Hollow Blade x 16' Uses #14 screw Mill Finish 80-MF-013</p> 	<p>2" Bahama Decorative Blade x 16' Non-Impact Mill Finish 41-63-830</p> 	<p>1.25 HV Low Profile Blade x 12' 41-63-834 Mill Finish <i>*Special Mill Order Frame Required - Call your Sales Representative for Coverage Chart</i></p> 	
<p>Self Mating Colonial Inside Frame x 20' 3" Welded System 41-63-880 UNPUNCHED 41-63-880R PUNCHED Right 41-63-880L PUNCHED Left</p> 	<p>Center Mullion x 12' Welded System 41-63-888 UNPUNCHED 41-63-888P PUNCHED</p> 	<p>Side & Bottom Frame x 20' Welded System 41-63-883 UNPUNCHED 41-63-883R PUNCHED Right 41-63-883L PUNCHED Left <i>Can also be used as a top frame in Colonial applications</i></p> 	<p>HV LOW PROFILE COLONIAL HORIZONTAL RAIL x 16' 2" 41-63-862 Mill Finish <i>Horizontal Rail for Colonials</i></p> 
<p>Bahama Top Frame with Hinge x 20' Welded System 41-63-885</p> 	<p>BAHAMA FEMALE HINGE x 20' 41-63-803 Mill Finish 6 pcs</p> 	<p>1" BUILD-OUT BAHAMA FEMALE HINGE x 20' 41-63-804 Mill Finish 6 pcs</p> 	<p>BAHAMA FEMALE FLAT HINGE x 20' 41-63-805 Mill Finish 6 pcs</p> 

WELDED Low Profile Bahama Colonial coverage chart

Additional heights available upon request. Blades continue inside top & bottom channel.

For Hinges & Components see Hurricane pp 35-36

visible blades	total blades	finished height"	visible blades	total blades	finished height"	visible blades	total blades	finished height"
11		24-7/16	21		42-9/16	31		60-11/16
12		26-1/4	22		44-3/8	32		62-1/2
13		28-1/16	23		46-3/16	33		64-5/16
14		29-7/8	24		48	34		66-1/8
15		31-11/16	25		49-13/16	35		67-15/16
16		33-1/2	26		51-5/8	36		69-3/4
17		35-5/16	27		53-7/16	37		71-9/16
18		37-1/8	28		55-1/4	38		73-3/8
19		38-15/16	29		57-1/16	39		75-3/16
20		40-3/4	30		58-7/8	40		77



2" 3-WAVE BLADE DECORATIVE BAHAMA/COLONIAL SYSTEM*

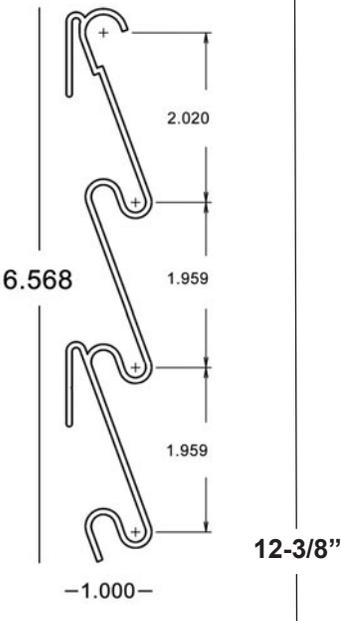
*Currently available for decorative applications

2" 3-Wave Blade x 12'

41-63-700

Self Mating

Mill Finish 6063-T6

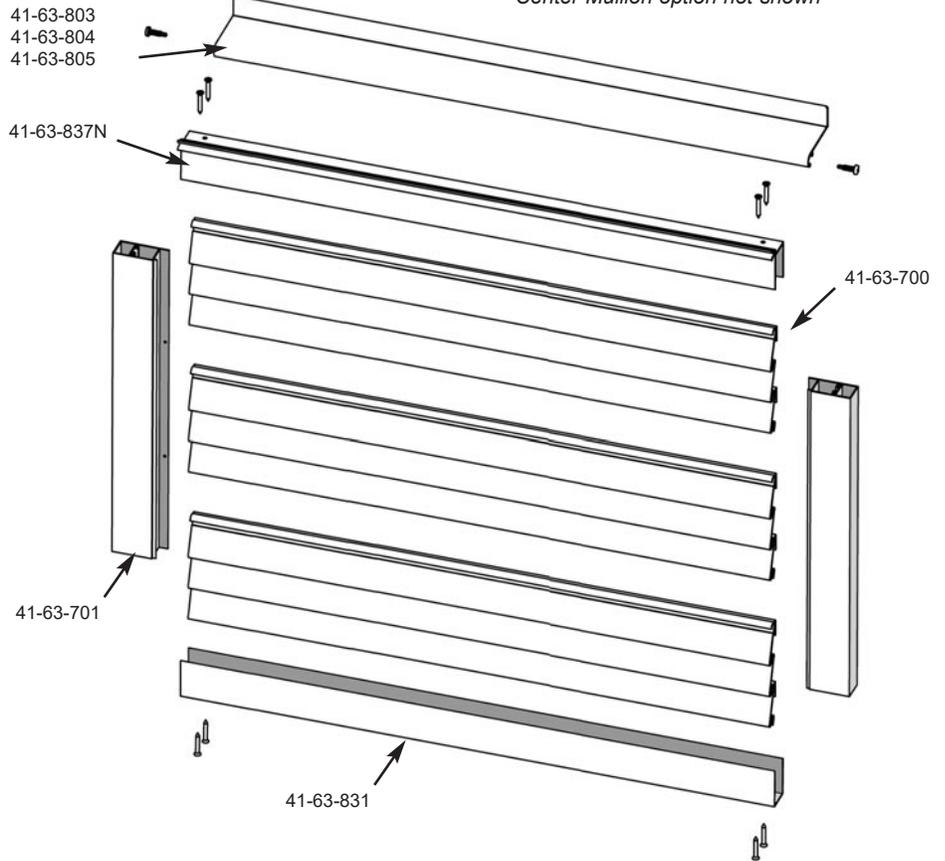


12-3/8"

2 Blades Interlocked Together

3-Wave Blade Decorative Bahama Schematic (Exterior View)

Center Mullion option not shown



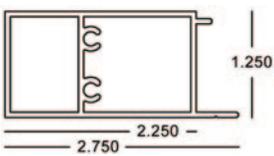
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Side Rail with Lip x 20'

41-63-701

Mill Finish 6063-T6

Accepts 3-Wave Blade



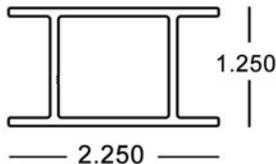
Center Mullion x 12'

41-63-888

Mill Finish

Accepts 3-Wave Blade

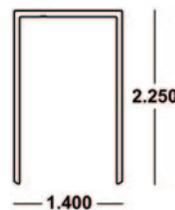
Center Mullion option not required in most applications.



Top & Bottom Rail x 21'

41-63-831

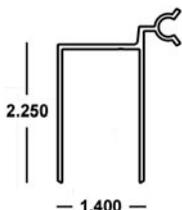
Mill Finish 6063-T6



HV LOW PROFILE MALE BAHAMA HINGE x 20'

41-63-837N

Mill Finish



Fixed Colonial Mounting Bracket

1.5 x 1.5 x .062 Angle

(Pre-Drilled 3/16" Holes)

7053 x 10"

7055 x 14"

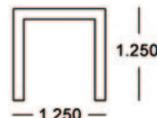


Radius Cover Cap

1-1/4" x 1-1/4" x 1/8"

Channel x 20'

13-63-230



Coverage Chart

Additional heights available upon request.
Blades continue inside top & bottom channel.

visible blades	finished height"	visible blades	finished height"
1	6-11/16	11	65-7/16
2	12-9/16	12	41-5/16
3	18-7/16	13	77-3/16
4	24-5/16	14	83-1/16
5	30-3/16	15	88-15/16
6	36-1/16	16	94-13/16
7	41-15/16	17	100-11/16
8	47-13/16	18	106-9/16
9	53-11/16	19	112-7/16
10	59-9/16	20	118-5/16

3-Wave Blade Samples

Powder Coated

WB-SAMPLE 12" x 24"

WBA-SAMPLE 12" x 24" Arched

For Hinges & Components
see Hurricane pp 35-36



EASTERN METAL SUPPLY

SHUTTERS 34
04/01/24

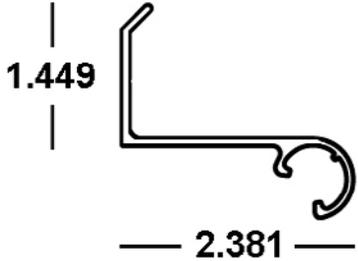
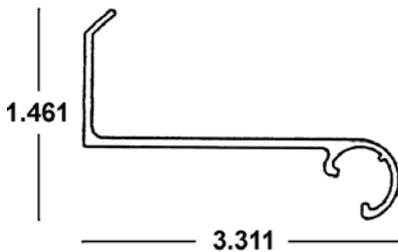
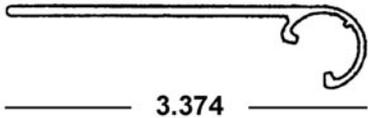
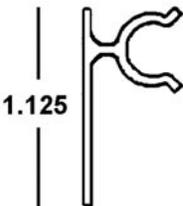
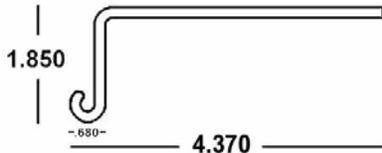
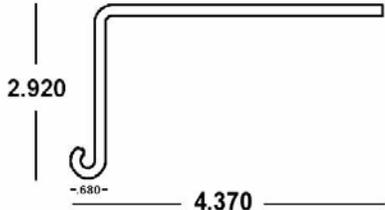
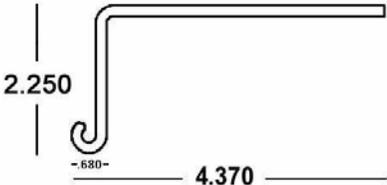
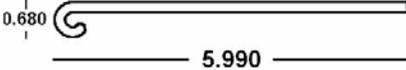
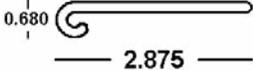
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BAHAMA/COLONIAL HINGES

For additional Components see Hurricane p54 (next page)

<p>Bahama Female Hinge x 20' 41-63-803 Mill Finish 6 pcs</p> 	<p>1" Build-Out Bahama Female Hinge x 20' 41-63-804 Mill Finish 6 pcs</p> 	<p>Bahama Female Flat Hinge x 20' 41-63-805 Mill Finish 6 pcs</p> 
<p>Bahama Male Hinge x 20' 41-63-814 Mill Finish 16 pcs</p> 	<p>Colonial Single Hinge x 12' 41-63-816 Wall Mount Mill Finish 6 pcs <i>Mates with 41-63-824N</i></p> 	<p>Colonial Double Hinge x 12' 41-63-813 Wall Mount Mill Finish 4 pcs <i>Mates with 41-63-824N</i></p> 
<p>2.25 Colonial Double Hinge x 12' 52-61-4146 Wall Mount Mill Finish 4 pcs <i>Mates with 41-63-824N</i></p> 	<p>Colonial Flat Hinge x 12' 41-63-811 Wall Mount Mill Finish 6 pcs <i>Mates with 41-63-824N</i></p> 	<p>Colonial Flat Hinge x 12' 41-63-824N Shutter Mount Mill Finish 6 pcs; <i>Mates with 41-63-816, 41-63-813, 41-63-811, 41-63-824N, 52-61-4146</i></p> 

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BAHAMA/COLONIAL COMPONENTS

Used in a variety of Bahama/Colonial Systems

Piano Hinge x 6' 41-63-871

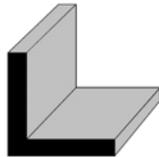
2" open width
.062" thick; 1/8" pin
Mill Finish; without holes
For use with
Decorative Colonials



Corner Key/Tie Down

Mill Finish Angle
2 x 2 x 1/8 x 20'
11-63-315

2 x 2 x 3/16 x 20'
11-63-320



Fixed Low Pro Colonial Mounting Bracket

1.5 x 1.5 x .062 Angle
Pre-Drilled 3/16" Holes

7058 x 4"
7053 x 10"
7055 x 14"



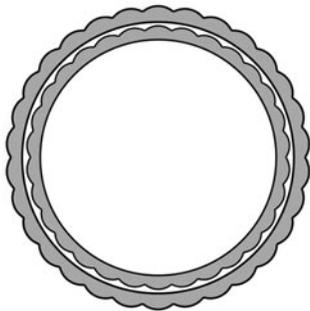
Low Pro Hold Back Clip LP-HOLDBACK

(1 of each: LP-003
& LP-004)
Boxed in pairs of 100



Telescoping Serrated

Tube x 20' Mill Finish
52-63-537 .875" 26 pcs
51-63-381 1.000" 32 pcs



1" SLIP COLLAR WITH THUMB SCREW

Accepts 1" Serrated Tube for Telescoping Arms

7000 (FL/TX) Mill Finish x 9/16"
7000WH White x 9/16"
7000BK Black x 9/16"
7000MB Bronze x 9/16"
MILL ORDER ~~52-63-2484~~ MF x 20'
52-00-139 (TX) Mill Finish x 9/16" (No Thumbscrew)
41014 (TX) 1/4-20 x 3/4 Thumbscrew (mates with 52-00-139)
41021 (TX) 1/4-20 x 1 Thumbscrew (mates with 52-00-139)



CAMEL BACK CLIP WITH PIN

7001 Mill Finish
7001WH White
7001BK Black
7001MB Bronze



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HV™ Bahama Telescoping Arm Kit

Kit includes 2 Tubes, Slip Collar, Camel Back, Cap and U-Clip.
(Approximate Max Extended Length shown in parenthesis)

Code	Arm Size (Extended) Finish	Code	Arm Size (Extended) Finish
7002K	12" (23") MF	7017K	30" (59") MF
7002KWH	12" (23") White	7017KWH	30" (59") White
7002KBK	12" (23") Black	7017KBK	30" (59") Black
7002KMB	12" (23") Bronze	7017KMB	30" (59") Bronze
7003K	18" (35") MF	7018K	36" (71") MF
7003KWH	18" (35") White	7018KWH	36" (71") White
7003KBK	18" (35") Black	7018KBK	36" (71") Black
7003KMB	18" (35") Bronze	7018KMB	36" (71") Bronze
7004K	24" (47") MF		
7004KWH	24" (47") White		
7004KBK (FL/TX)	24" (47") Black		
7004KMB	24" (47") Bronze		



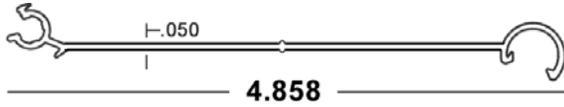
BERTHA HV® ACCORDION SHUTTER - BLADES 1 & 2

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)

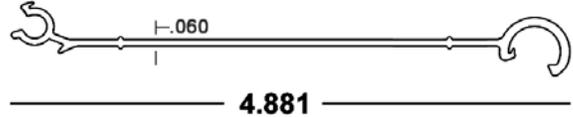


Covered under US Patents #5,458,179; #6,779,582

BERTHA HV® BLADE #2

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

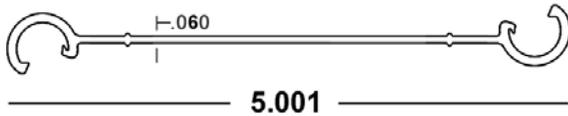
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
 (10 Pcs/Sub; 120 Pcs/Master)



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'

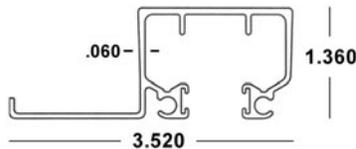


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BERTHA HV® CEILING HEADER #1 x 20'

41-COLOR-424

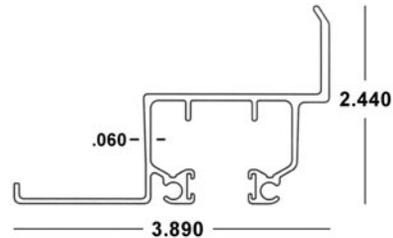
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
 (4 Pcs/Sub) Felt: 41-HV-320



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

41-COLOR-425

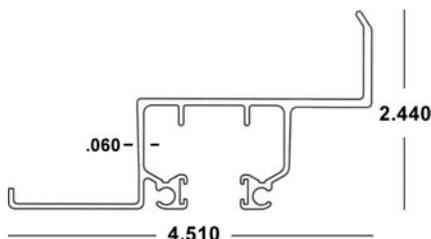
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
 (4 Pcs/Sub) Felt: 41-HV-320



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

41-COLOR-426

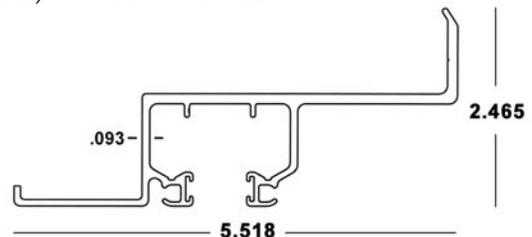
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
 (4 Pcs/Sub) Felt: 41-HV-320



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



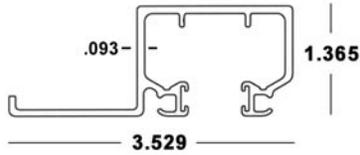
BERTHA HV® ACCORDION SHUTTER - BLADES 1 & 2

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

BERTHA HV® HD CEILING HEADER #2 x 20'

41-COLOR-430

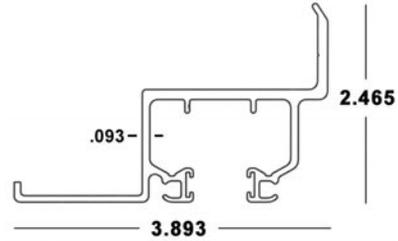
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
(4 Pcs/Sub) Felt: 41-HV-320



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

41-COLOR-431

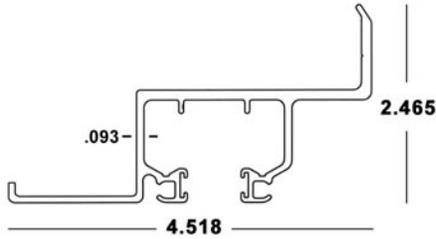
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
(4 Pcs/Sub) Felt: 41-HV-320



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

41-COLOR-432

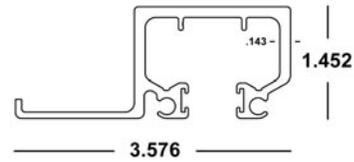
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
(4 Pcs/Sub) Felt: 41-HV-320



BERTHA HV® SHD™ CEILING HEADER x 20'

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

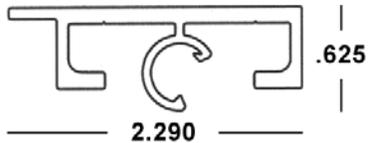
Felt: 41-HV-320



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

41-COLOR-427

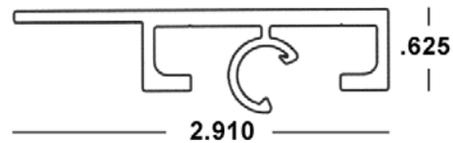
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
(4 Pcs/Sub)



BERTHA HV® 1" DIRECT MOUNT STARTER x 20'

41-COLOR-428

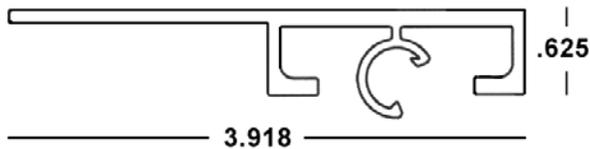
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
(6 Pcs/Sub)



BERTHA HV® 2" DIRECT MOUNT STARTER x 20'

41-COLOR-434

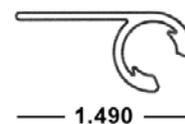
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
(6 Pcs/Sub)



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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SHUTTERS 38
04/01/24

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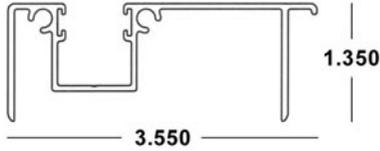
BERTHA HV® ACCORDION SHUTTER - BLADES 1 & 2

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

BERTHA HV® ADJUSTABLE TRACK w/FELT x 20'

41-COLOR-423

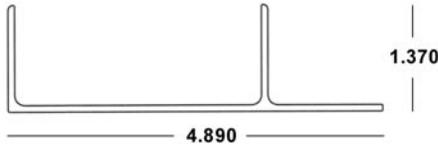
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
(6 Pcs/Sub) Felt: 41-HV-320



BERTHA HV® SILL ADAPTOR W/LIP x 20'

90-COLOR-012

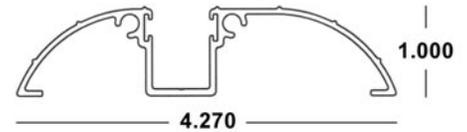
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
(6 Pcs/Sub)



BERTHA HV® WALKOVER TRACK x 20'

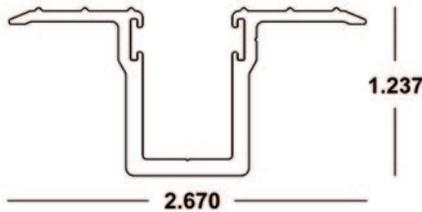
41-COLOR-440

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



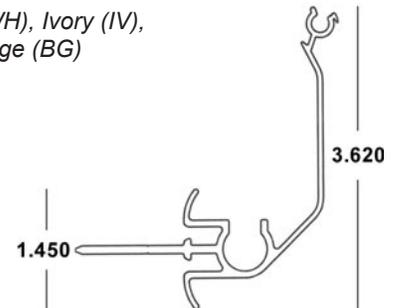
BERTHA HV® ANODIZED TRENCH TRACK x 20'

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



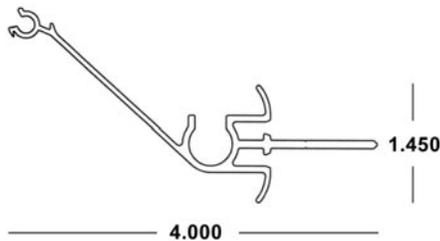
BERTHA HV® CORNER CENTERMATE #3 X 20'

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



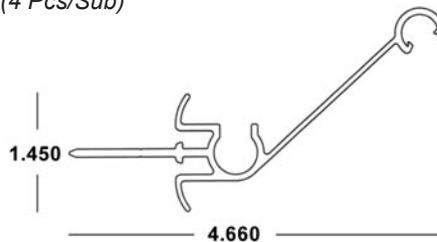
BERTHA HV® CENTERMATE #1 x 20'

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



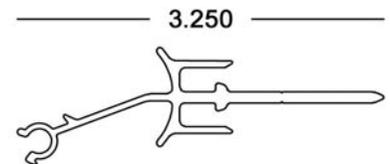
BERTHA HV® FLOATING CENTERMATE #2 x 20'

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



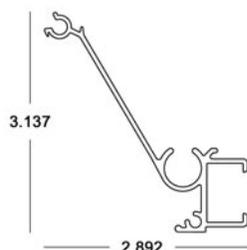
BERTHA HV® FLAT CENTERMATE x 20'

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



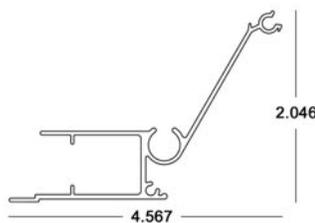
BERTHA HV® MALE T LOCK x 20'

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

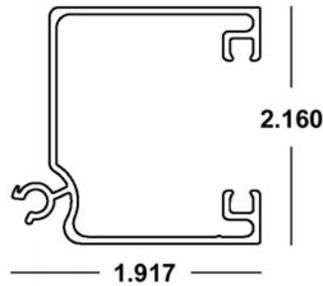
Code Approvals: FBC (non-HVHZ), FBC (HVHZ), IBC/IRC

BERTHA HV® HD™ CENTERMATE

WITHOUT RODS x 20'

41-COLOR-439

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

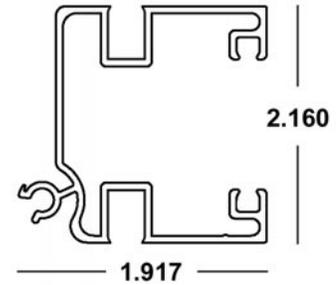


BERTHA HV® HD™ CENTERMATE

WITH RODS x 20'

41-COLOR-435

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

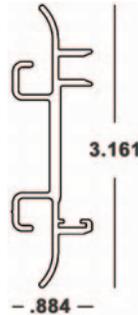


BERTHA HV® HD™

INSERT x 20'

41-COLOR-436

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

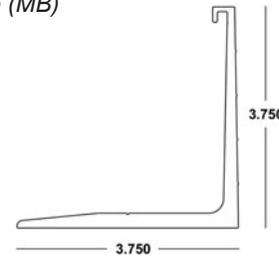


Mates with BERTHA HV® HD™ Centermates

BERTHA HV® RAINGUARD x 17'

41-COLOR-460 (10 Pcs.)

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

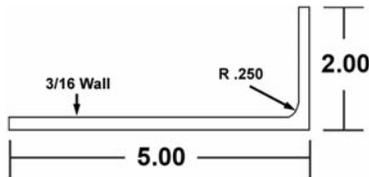


BERTHA HV® BUILD-OUT ANGLE x 20'

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)

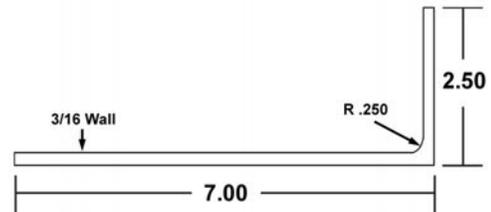


BERTHA HV® BUILD-OUT ANGLE x 20'

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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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

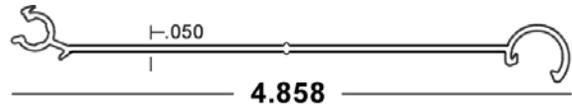
Contact your Sales Rep for availability

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

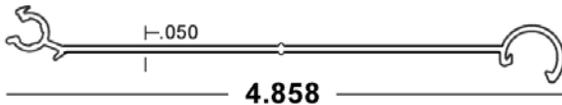
Contact your Sales Rep for availability

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

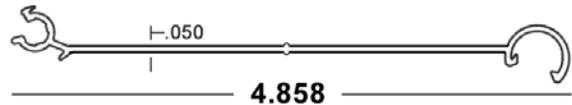
Contact your Sales Rep for availability

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:

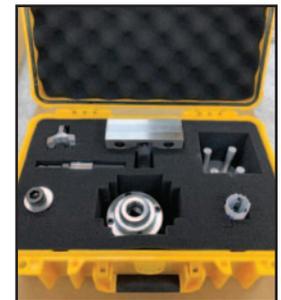
Hex Bit Socket 3/8 Sq Drive with 1/4" Hex to 3/8 Sq Drive 2" long / Base Die / Grade 8 Hex Screw & Washer

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



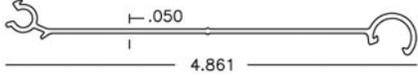
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Code Approvals: FBC (non-HVHZ), FBC (HVHZ)

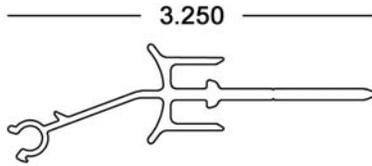
BERTHA HV™ Blade #1

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



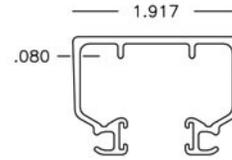
HV® Flat Center Mate x 20'

41-COLOR-420
 (6 Pcs/Sub)



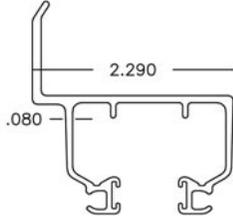
HV® Essential Ceiling Header x 20'

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



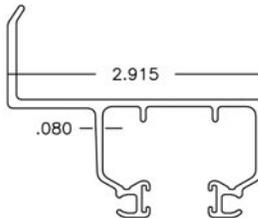
HV® Essential 3/8" Build Out x 20'

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



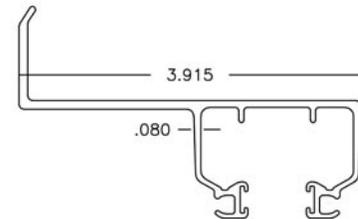
HV® Essential 1" Build Out x 20'

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



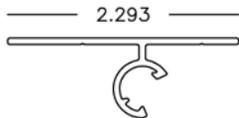
HV® Essential 2" Build Out x 20'

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



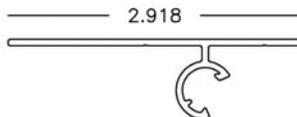
HV® Essential 3/8" Direct Mount x 20'

41-COLOR-472



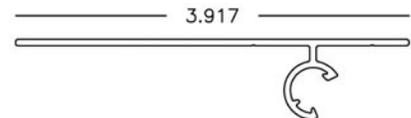
HV® Essential 1" Direct Mount x 20'

41-COLOR-474



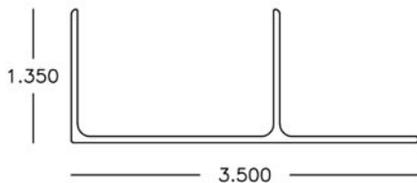
HV® Essential 2" Direct Mount x 20'

41-COLOR-476



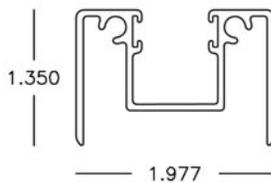
HV® Essential .080 Adjustable Adapter With Lip x 20'

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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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

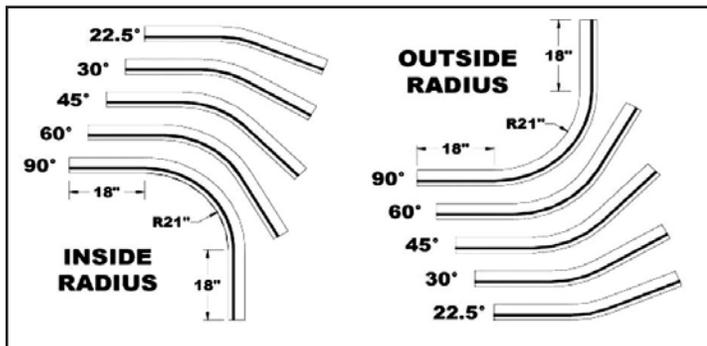
HV® Accordion Shutter Radius Track

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-772
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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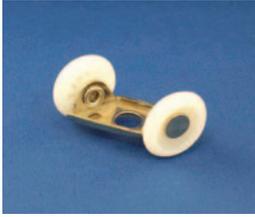
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*****To Order Accordion Components Contact ALL POINTS Directly***
 1-800-226-5555 • info@allpointsscrew.com**

<p>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</p> 	<p>HV Bushings (boxes of 100) HVLONG1 Long White HVLONG2 Long Black HVSHORT1 Short White HVSHORT2 Short Black HVHAT1 Hat White Only</p> 	<p>HV Wheel Carriage WC10</p> 
<p>HV Push Button Lock LOHV/WH White LOHV/BZ Bronze LOHV/BE Beige LOHV/IV Ivory</p> 	<p>HV Egress Lock LOHVTT/WH White LOHVTT/BZ Bronze LOHVTT/BE Beige LOHVTT/IV Ivory LOHVTT (cylinder only)</p> 	<p>HV Saltwater Lock & HV Thumbscrews HVPLATE - Stainless Steel Plate 31C100MTPB/HV Black Thumbscrew 31C100MTPW/HV White Thumbscrew</p> 
<p>HD Lock LOHRHB Hook Bolt Mortise Lock –SS LOBRCL Key cylinder – Brass/SS LOBRTT Thumb turn cylinder – brass/SS</p> 	<p>HV T-Handle Lock with J-Clip LO/WH White LO/BZ Bronze LO/IV Ivory LO/BE Beige</p> <p>J-Clip EA-J-CLIP</p> 	<p>HV Locking Pins Please specify 1/4-20 Stainless or 3/8-16 Nylon thumbscrew.</p> 
<p>HV Holdback Clip HVCLIP/BZ Black HVCLIP/WH White HVCLIPFC/WH White (for Flat Centermates) HVCLIPFC/BK Black (for Flat Centermates)</p> 	<p>HV 3/8 X 3/4 Acetel® Thumb Screw 37C75MTSN White 37C75MTSN/B Black please specify white or black</p> 	



2" BERTHA™ ROLL FORM STORM PANEL SYSTEM

Code Approvals: FBC Non-HVHZ, FBC HVHZ, IBC/IRC; TDI (Pending)



BEFORE Installation

AFTER Installation

2" Panels	Hemmed	Knurled
.050 Aluminum	FL, NC	FL, NC
.050 AL 1/2 Panel	N/A	FL, NC
24 GA Galv. Steel	FL	FL, NC
24 GA Galv. 1/2 Panel	N/A	FL
28 GA Galv. Steel	FL	N/A



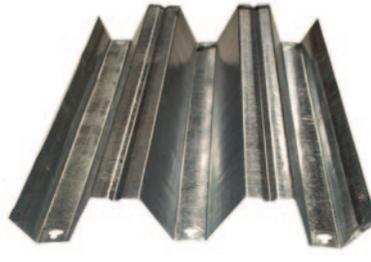
2" Coverage Chart

# of Panels	2" Total Panel Coverage	Cut Mounting Track At:
1	13.375"	14.375"
1.5	19.250"	20.375"
2	25.375"	26.375"
2.5	31.250"	32.375"
3	37.250"	38.375"
3.5	43.125"	44.375"
4	49.375"	50.375"
4.5	55.250"	56.375"
5	61.000"	62.375"
5.5	67.000"	68.375"
6	72.750"	74.375"
6.5	78.625"	80.375"
7	84.625"	86.375"
7.5	90.500"	92.375"
8	96.500"	98.375"
8.5	102.375"	104.375"
9	108.250"	110.375"
9.5	114.250"	116.375"
10	120.125"	122.375"
10.5	126.000"	128.375"
11	132.000"	134.375"
11.5	137.875"	140.375"
12	143.750"	146.375"
12.5	149.625"	152.375"
13	155.750"	158.375"
13.5	161.500"	164.375"
14	167.375"	170.375"
14.5	173.250"	176.375"
15	179.625"	182.375"
15.5	185.500"	188.375"
16	191.500"	194.375"
16.5	197.375"	200.375"
17	203.625"	206.375"
17.5	209.500"	212.375"
18	215.500"	218.375"

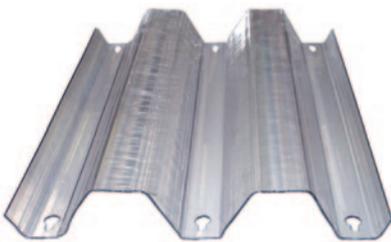
2" .050 BERTHA™ Aluminum Storm Panel Mill Finish
1/2 panel available
Code Approved: FBC (Non-HVHZ), TDI, IBC/IRC



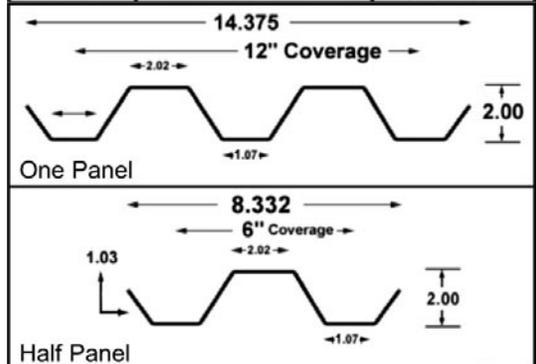
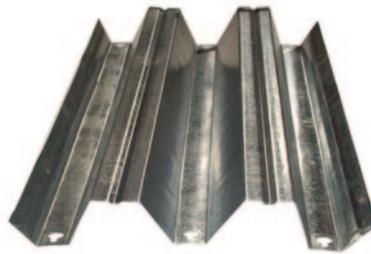
2" 24 GA BERTHA™ Galvanized Steel Storm Panel
1/2 panel available
Code Approved: FBC (Non-HVHZ)



2" BERTHA™ Clear Storm Panel
1/2 panel available
Code Approved: FBC (Non-HVHZ), FBC (HVHZ), TDI, IBC/IRC



2" 28 GA BERTHA™ Galvanized Steel Storm Panel
Code Approved: FBC (Non-HVHZ), FBC (HVHZ)

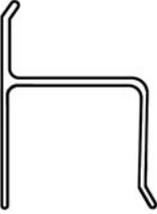
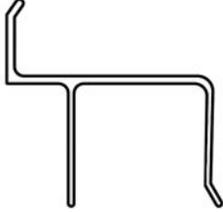
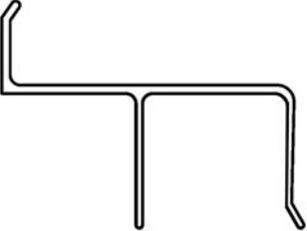
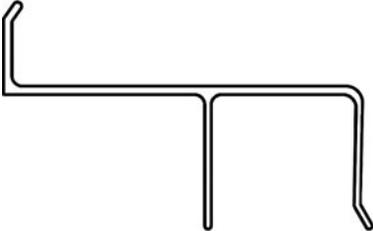
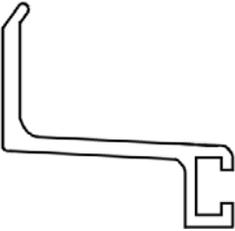
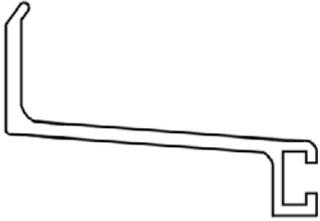
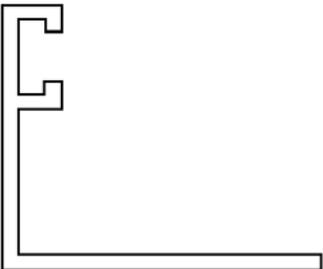
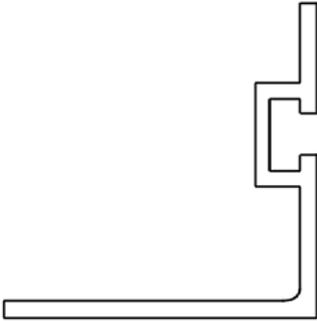
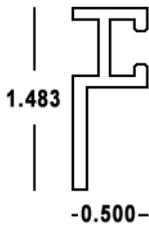


Any item manufactured in FL is available via shuttle to the other branches. Any item manufactured in NC is available via shuttle to TX. FL • NC • TX maintain inventory of 20' panels that can be offline punched and cut to size.



2" BERTHA™ ROLL FORM STORM PANEL SYSTEM

Code Approvals: FBC Non-HVHZ, FBC HVHZ, IBC/IRC; TDI (Pending)

<p>BERTHA™ U-Header 2" x .094" x 20' 40-WH-4500 White 40-MB-4500 Bronze 40-WH-450 (.062) White Non-Approved 40-MB-450 (.062) Bronze Non-Approved</p> 	<p>BERTHA™ H-Header 2" x .094" x 20' 40-WH-3500 White 40-MB-3500 Bronze 40-WH-350 (.062) White Non-Approved 40-MB-350 (.062) Bronze Non-Approved</p> 	<p>BERTHA™ 1" Build-Out Header 2" x .094" x 20' 40-WH-3550 White 40-MB-3550 Bronze</p> 
<p>BERTHA™ 2" Build-Out Header 2" x .094" x 20' 40-WH-3560 White 40-MB-3560 Bronze</p> 	<p>BERTHA™ 3" Build-Out Header 2" x .094" x 20' 40-WH-3570 White 40-MB-3570 Bronze</p> 	<p>BERTHA™ Studless Flat Track x 20' 40-63-615 (TX) M/F 40-WH-615 White 40-MB-615 Bronze</p> 
<p>BERTHA™ 1" Studless Track x 20' 40-WH-630 White 40-MB-630 Bronze</p> 	<p>BERTHA™ 2" Studless Track x 20' 40-WH-632 White 40-MB-632 Bronze</p> 	<p>BERTHA™ 3" Studless Track x 20' 40-WH-635 White</p> 
<p>BERTHA™ Studless Angle Track x 20' 40-WH-610 White 40-MB-610 Bronze</p> 	<p>BERTHA™ Reverse "F" Track x 20' 40-WH-620 White</p> 	<p>BERTHA™ Stucco F-Track x 20' MILL ORDER <u>52-63-5615</u> 1/2"</p> 



2-1/4" BERTHA™ ROLL FORM STORM PANEL SYSTEM

Code Approvals: FBC Non-HVHZ, FBC HVHZ, TDI



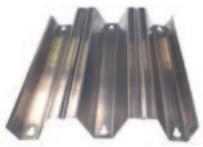
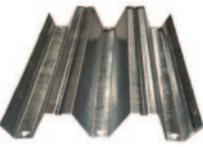
BEFORE Installation

AFTER Installation

2-1/4" Panels	Hemmed	Knurled
.040 Aluminum	N/A	FL
.050 Aluminum	N/A	FL
.050 Aluminum - 1/2 Panel	N/A	FL
24 GA Galv. Steel	FL	FL
24 GA Galv. - 1/2 Panel	N/A	FL
.030 Miami Dade Galv. Steel	N/A	FL



Any item manufactured in FL is available via shuttle to the other branches.

2-1/4" .040 BERTHA™ Aluminum Storm Panel Mill Finish Code Approved: FBC (Non-HVHZ) 	2-1/4" .050 BERTHA™ Aluminum Storm Panel Mill Finish & White 1/2 panel available Code Approved: FBC (Non-HVHZ), FBC (HVHZ), TDI 
2-1/4" 24 GA BERTHA™ Galvanized Steel Storm Panel 1/2 panel available Code Approved: FBC (Non-HVHZ) 	2-1/4" .030 GA BERTHA™ Galvanized Steel Storm Panel 1/2 panel available Code Approved: FBC (HVHZ) 
2-1/4" BERTHA™ Clear Storm Panel Code Approved: FBC (Non-HVHZ), TDI 	

Pre-Cut 2-1/4" Storm Panels

FL: In Stock; NC: Mfg lead time less than 1 week

.040 Aluminum

Mill Finish

80-40-33 x 33"
 80-40-47 x 47"
 80-40-57 x 57"
 80-40-70 x 70"
 80-40-88 x 88"
 80-40-102 x 102"

.050 Aluminum

Mill Finish

77-52-33 x 33"
 77-52-47 x 47"
 77-52-57 x 57"
 77-52-70 x 70"
 77-52-88 x 88"
 77-52-102 x 102"

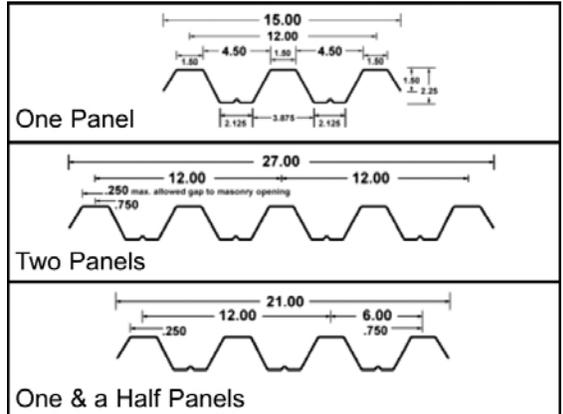
Clear Panel

Polycarbonate

79-06-33 x 33"
 79-06-47 x 47"
 79-06-57 x 57"
 79-06-70 x 70"
 79-06-88 x 88"
 79-06-102 x 102"

2-1/4" Coverage Chart

# OF PANELS	TOTAL PANEL COVERAGE	CUT TRACK AT:
1	13.375"	15"
1-1/2	19.250"	21"
2	25.375"	27"
2-1/2	31.250"	33"
3	37.250"	39"
3-1/2	43.125"	45"
4	49.375"	51"
4-1/2	55.250"	57"
5	61.000"	63"
5-1/2	67.000"	69"
6	72.750"	75"
6-1/2	78.625"	81"
7	84.625"	87"
7-1/2	90.500"	93"
8	96.500"	99"
8-1/2	102.375"	105"
9	108.250"	111"
9-1/2	114.250"	117"
10	120.125"	123"
10-1/2	126.000"	129"
11	132.000"	135"
11-1/2	137.875"	141"
12	143.750"	147"
12-1/2	149.625"	153"
13	155.750"	159"
13-1/2	161.500"	165"
14	167.375"	171"
14-1/2	173.250"	177"
15	179.625"	183"
15-1/2	185.500"	189"
16	191.500"	195"
16-1/2	197.375"	201"
17	203.625"	207"
17-1/2	209.500"	213"
18	215.500"	219"



EASTERN METAL SUPPLY

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

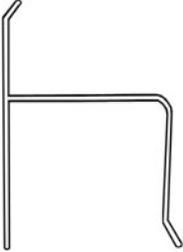
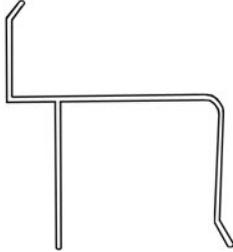
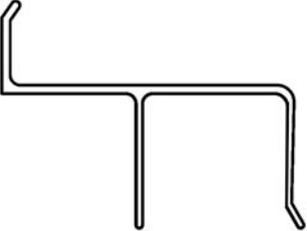
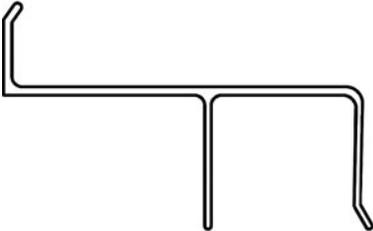
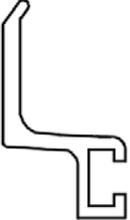
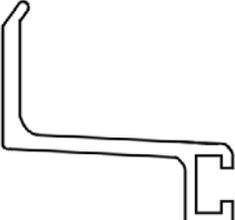
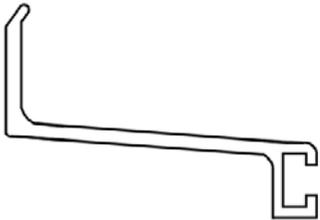
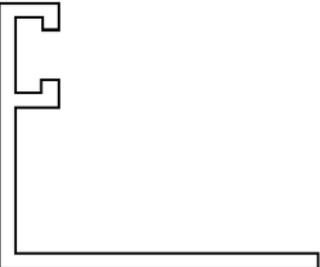
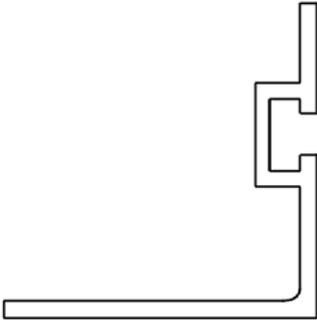
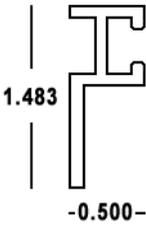
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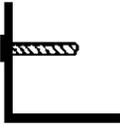
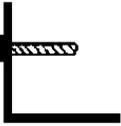
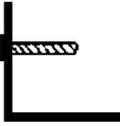
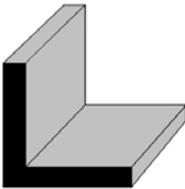
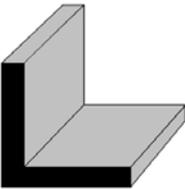
2-1/4" BERTHA™ ROLL FORM STORM PANEL SYSTEM

Code Approvals: FBC Non-HVHZ, FBC HVHZ, TDI

<p>BERTHA™ U-Header 2-1/4" x .075" x 19'</p> <p>41-WH-510 White 41-MB-510 Bronze</p> 	<p>BERTHA™ H-Header 2-1/4" x .075" x 19'</p> <p>41-WH-500 White 41-MB-500 Bronze</p> <p>Custom Lengths White (FL)</p> <p>41-WH-39 x 39" 41-WH-51 x 51" 41-WH-63 x 63" 41-WH-75 x 75" 41-WH-87 x 87" 41-WH-99 x 99"</p> 	<p>BERTHA™ 1" Build-Out Header 2-1/4" x .075" x 19'</p> <p>41-WH-520 White 41-MB-520 Bronze</p> 
<p>BERTHA™ 2" Build-Out Header 2-1/4" x .075" x 19'</p> <p>41-WH-522 White</p> 	<p>BERTHA™ 3" Build-Out Header 2-1/4" x .075" x 19'</p> <p>41-WH-525 White</p> 	<p>BERTHA™ Studless Flat Track x 20'</p> <p>40-63-615 (TX) M/F 40-WH-615 White 40-MB-615 Bronze</p> 
<p>BERTHA™ 1" Studless Track x 20'</p> <p>40-WH-630 White 40-MB-630 Bronze</p> 	<p>BERTHA™ 2" Studless Track x 20'</p> <p>40-WH-632 White 40-MB-632 Bronze</p> 	<p>BERTHA™ 3" Studless Track x 20'</p> <p>40-WH-635 White</p> 
<p>BERTHA™ Studless Angle Track x 20'</p> <p>40-WH-610 White 40-MB-610 Bronze</p> 	<p>BERTHA™ Reverse "F" Track x 20'</p> <p>40-WH-620 White</p> 	<p>BERTHA™ Stucco F-Track x 20'</p> <p>MILL ORDER <u>52-63-5615</u> 1/2"</p> 



2" and 2-1/4" BERTHA™ ROLL FORM STORM PANEL SYSTEMS

<p>BERTHA™ Studded Angle 2 x 2 x .093 x 24' 3"</p> <p>Standard: <u>11-MF-500</u> <u>11-WH-500</u> <u>11-MB-500</u></p> <p>Finish: M/F White Bronze</p> <p>Reverse: N/A 11-WH-500RS 11-MB-500RS</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Standard</p> </div> <div style="text-align: center;">  <p>Reverse</p> </div> </div>	<p>BERTHA™ Studded Angle 2 x 2 x .093 x 24' 3"</p> <p>Standard: N/A <u>11-WH-510</u> <u>11-MB-510</u></p> <p>Finish: M/F White Bronze</p> <p>Reverse: N/A Special Order <u>11-WH-510RS</u> Special Order <u>11-MB-510RS</u></p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Standard</p> </div> <div style="text-align: center;">  <p>Reverse</p> </div> </div>																
<p>BERTHA™ Studded Angle 2 x 2 x .093 x pre-cut lengths</p> <p>White Standard:</p> <table border="0"> <tr><td><u>11-WH-39</u></td><td>x 39"</td></tr> <tr><td><u>11-WH-51</u></td><td>x 51"</td></tr> <tr><td><u>11-WH-63</u></td><td>x 63"</td></tr> <tr><td><u>11-WH-75</u></td><td>x 75"</td></tr> <tr><td><u>11-WH-87</u></td><td>x 87"</td></tr> <tr><td><u>11-WH-99</u></td><td>x 99"</td></tr> </table> <div style="text-align: center; margin-top: 20px;">  </div>	<u>11-WH-39</u>	x 39"	<u>11-WH-51</u>	x 51"	<u>11-WH-63</u>	x 63"	<u>11-WH-75</u>	x 75"	<u>11-WH-87</u>	x 87"	<u>11-WH-99</u>	x 99"					
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<p>BERTHA™ Standard Angle 2 x 2 x .093 x 20'</p> <table border="0"> <tr><td>51-63-544 (TX)</td><td>White</td></tr> <tr><td>51-63-543</td><td>Bronze</td></tr> <tr><td>52-63-013</td><td>Ivory</td></tr> </table> <div style="text-align: center; margin-top: 20px;">  </div>	51-63-544 (TX)	White	51-63-543	Bronze	52-63-013	Ivory	<p>BERTHA™ Standard Angle 2 x 2 x .125 x 20'</p> <table border="0"> <tr><td>11-63-315</td><td>M/F</td></tr> <tr><td>11-WH-376</td><td>White</td></tr> <tr><td>11-MB-376</td><td>Bronze</td></tr> <tr><td>11-IV-376</td><td>Ivory</td></tr> <tr><td>11-BG-376</td><td>Beige</td></tr> </table> <div style="text-align: center; margin-top: 20px;">  </div>	11-63-315	M/F	11-WH-376	White	11-MB-376	Bronze	11-IV-376	Ivory	11-BG-376	Beige
51-63-544 (TX)	White																
51-63-543	Bronze																
52-63-013	Ivory																
11-63-315	M/F																
11-WH-376	White																
11-MB-376	Bronze																
11-IV-376	Ivory																
11-BG-376	Beige																



BERTHA™ HURRICANE FABRIC™

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



HURRICANE FABRIC

**BERTHA™ Hurricane Fabric™
MASTER ROLL**

2825 Sq Ft 9' 5" x 300' (280 lbs)
12" OD; 3" ID Cardboard Tube
Includes 4800 Screws
Special Order 41-WH-95300 White
Special Order 41-TN-95300 Tan



**BERTHA™ Hurricane Fabric™
CUT-TO-LENGTH**

Clips Included; 6" OC, 2 Sides Only
41-WH-95300 White
41-TN-95300 Tan
Based on Length



**BERTHA™ Hurricane Fabric™
CUT-TO-SIZE**

Clips Included; 6" OC, 2 Sides Only
41-WH-95300 White
41-TN-95300 Tan
Based on Square Footage



BERTHA™ Hurricane Fabric™ Clip

(pack of 24)
Bag includes screws and clips
SPECIAL ORDER 41-CLIP-BULK Black



BERTHA™ Hurricane Fabric™ Clip

One Each
41-BK-CLIP Black



**#8 x 1/2" SMS Pan Head
Phillips 410 SS (Bag of 8)**

41-85410PH



**BERTHA™ Hurricane Fabric™
Storage Bag**

28.5" wide x 44" Long
41-AG-BAG Maroon



BERTHA™ Hurricane Fabric™ Label

FBC (250 per roll)
LABEL-5



**BERTHA™ Hurricane Fabric™
Sample**

10" x 10" with Label & Clip
41-WH-AGSAMPLE White
41-TN-AGSAMPLE Tan





2023 Approved Hurricane & Security Products

Product Description	FBC (Non-HVHZ)	FBC (HVHZ)	TDI Evaluation	IBC/IRC	Miami-Dade Assoc. Approval
HV® Essential Accordion	FL32030 DWG #20-31274	FL32030 DWG #20-31274	Submittal ID #9980		
HV® Accordion System (Blade 1)	FL389 DWG #20-164 FL32030 DWG #20-31270	FL1850 DWG #20-169 FL32030 DWG #20-31270	Submittal ID #9983	IBC/IRC DWG #20-31291	
HV® Accordion System (Combo - Blade 1 & 2)	FL 389 DWG# 20-163	FL 1850 DWG# 20-159			
40mm BERTHA™ ER Roll Shutter End Retention	FL32029 DWG #20-31262	FL32029 DWG #20-31262 FL17204 DWG #20-173	SHU-217 DWG# 19-18642	IBC/IRC DWG #20-31289	
55mm BERTHA™ ER Roll Shutter Retention & Non Retention	FL 22558 DWG#: EMS002	FL 22558 DWG#: EMS003	SHU-232 DWG# EMS006		
58mm BERTHA™ ER Roll Shutter Retention & Non Retention	FL5790 DWG #20-0401 FL20716 DWG #20-171	FL 17424 DWG#: 20-172			
Single Wall Slat Roll Shutter (63mm)	FL 31658 DWG#: 20-31266	FL 31658 DWG#: 20-31266	SHU-240 DWG# 20-26533	IBC/IRC DWG #20-31292	
BERTHA™ Colonial Shutter (Impact)	FL 2681 DWG# 20-167	FL 2681 DWG# 20-162		DWG# 06-214	
BERTHA™ Bahama Shutter (Impact)	FL 2683 DWG# 20-167	FL6566 DWG# 20-161			
HIGH VISIBILTY (HV) Colonial Shutter	FL 8200 DWG# 20-170			Pending	
HIGH VISIBILTY (HV) Bahama Shutter	FL 8523 DWG# 20-166			Pending	

FBC (Non-HVHZ): Meets Florida Building Code for Non-High Velocity Hurricane Zones

FBC (HVHZ): Meets Florida Building Code for High Velocity Hurricane Zones

TDI: Meets Texas Department of Insurance Standards

IBC: Meets International Building Code

IRC: Meets International Residential Code

Miami-Dade NOA: Meets Florida Building Code for High Velocity Hurricane Zones (Dade County)

ASSA Products listed above require membership to the American Shutter Systems Association unless listed otherwise. ✓ Contact the ASSA for more information.

American Shutter Systems Association

4268 Westroads Drive, West Palm Beach, FL 33407

877-999-ASSA Fax: (561) 209-8380

www.amshutter.org • info@amshutter.org



EASTERN METAL SUPPLY

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

SHUTTERS 51
04/01/24

www.easternmetal.com





2023 Approved Hurricane & Security Products

Product	FBC (Non-HVHZ)	FBC (HVHZ)	TDI Evaluation	IBC/IRC	Miami-Dade
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• PANELS: Aluminum, Steel, Polycarbonate & Fabric:

2" 28 Ga Galvanized Steel BERTHA™ Panel	FL 22270 DWG#: EMS005	FL 22270 DWG#: EMS004			
2" .050 Aluminum BERTHA™ Panel	FL 11964 DWG#: 20-183	FL 39178 DWG#: 20-28317		IBC/IRC	
2" 24 GA Galv. Steel BERTHA™ Panel	FL 11964 DWG#: 20-178				
2" Clear Panel	FL28390 DWG#: 20-28341	FL28390 DWG#: 20-28341	Pending	IBC/IR DWG#: 18-6492	
2-1/4" .040 Aluminum BERTHA™ Panel	FL 11968 DWG#: 20-180				
2-1/4" .050 Aluminum BERTHA™ Panel	FL 11968 DWG#: 20-182	FL 11969 DWG#: 20-186	SHU-47 DWG#21-026		
2-1/4" 24 GA Galvanized Steel BERTHA™ Panel	FL 11968 DWG#: 20-181		SHU-235 DWG#21-027		
2-1/4" .030 Galvanized Steel BERTHA™ Panel		FL 11969 DWG#: 20-185			
2-1/4" BERTHA™ Clear Panel	FL 11968 DWG#: 20-184		SHU-168 DWG#21-028		
BERTHA™ Hurricane Fabric®	FL 13271 DWG#: 20-31278			Pending	

• NON-ASSA Shutters:

Bertha 40mm ER and Non-ER Roll Shutter			SHU-217 DWG#19-18642		
Bertha 55mm ER Roll Shutter			SHU-232 DWG#EMS006		
BERTHA™ Board & Batten Shutter	FL 11967 DWG# 20-188				
Brickhouse Low Pro Colonial Shutter			SHU-210		
Brickhouse Low Pro Bifold Colonial Shutter			SHU-212		
Brickhouse Low Pro Bahama Shutter			SHU-236		

- **FBC (Non-HVHZ):** Meets Florida Building Code for Non-High Velocity Hurricane Zones
- **FBC (HVHZ):** Meets Florida Building Code for High Velocity Hurricane Zones
- **TDI:** Meets Texas Department of Insurance Standards
- **IBC/IRC:** Meets International Building Code (IBC) and Meets International Residential Code (IRC)
- **Miami-Dade NOA:** Meets Florida Building Code for High Velocity Hurricane Zones (Dade County)



EASTERN METAL SUPPLY

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04/01/24

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PRE-FABRICATED DECO & HURRICANE RATED SHUTTERS



Pre-Fabricated Hurricane Protection Products

*Extrusions, components and systems listed in Hurricane section.
Please ask your Sales Representative for more information.*

Accordion Shutters

- HV™ Blade 1
- HV™ Combo (Blade 1 and 2)

Roll Shutters

- End Retention Systems: 40mm, 55mm, 63mm
- Roll Shutter Hood Manufacturing

Bahama & Colonial Shutters

- Code Approved: High Visibility™ HV™ Board & Batten
- Decorative: HV™ Low Profile (mechanical & welded)
- 3-Wave Blade Colonial
- Raised Panel Colonial (assembled only)
- Powder Coating available

Roll Formed Storm Panels

- .040 Aluminum (2-1/4" in Mill Finish)
- .050 Aluminum (2" & 2-1/4" in Mill Finish & White)
- Galvanized Steel (2" & 2-1/4" panels)
- Clear Polycarbonate (2" & 2-1/4" panels)



FABRICATED PRODUCTS: RAISED PANEL DECORATIVE COLONIAL



Raised Panel Decorative Colonial

- Available in a variety of colors, widths and heights
- Only sold assembled

Options include:

- Raised Panel (raised panel top & bottom)
- Raised Panel Combination
(Raised Panel & 2" HV™ Low Profile Deco Slat)
- Flat Panel (not shown)
- Mounting Brackets
 - 1-1/2" x 1-1/2" x .062 Angle
 - 4" Bracket
 - 10" Bracket
 - 14" Bracket
- Samples Available
 - RP-Sample 12" x 24" Raised Panel
 - RPLP-Sample 12" x 24" Raised Panel Combo
- Engineering Available Upon Request

