## 2020 Approved Hurricane Products

### Panels - Aluminum, Steel, Polycarbonate & Fabric:

<table>
<thead>
<tr>
<th>Product Description</th>
<th>FBC (Non-HVHZ)</th>
<th>FBC (HVHZ)</th>
<th>TDI Evaluation</th>
<th>IBC/IRC</th>
<th>Miami-Dade NOA#</th>
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</thead>
<tbody>
<tr>
<td>2” 28 Ga Galvanized Steel BERTHA™ Panel</td>
<td>FL 22270 DWG#: EMS005</td>
<td>FL 22270 DWG#: EMS004</td>
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<tr>
<td>2” .050 Aluminum BERTHA™ Panel</td>
<td>FL 11964 DWG#: 17-097</td>
<td></td>
<td>DWG#: 17-064</td>
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<tr>
<td>2” 24 GA Galvanized Steel BERTHA™ Panel</td>
<td>FL 11964 DWG#: 17-089</td>
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<tr>
<td>2” Clear Panel</td>
<td>FL 28390 DWG#: 18-6492</td>
<td>FL 28390 DWG#: 18-6492</td>
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<tr>
<td>2-1/4” .040 Aluminum BERTHA™ Panel</td>
<td>FL 11968 DWG#: 17-094</td>
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<tr>
<td>2-1/4” .050 Aluminum BERTHA™ Panel</td>
<td>FL 11968 DWG#: 17-096</td>
<td>FL 11969 DWG#: 17-100</td>
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<tr>
<td>2-1/4” 24 GA Galvanized Steel BERTHA™ Panel</td>
<td>FL 11968 DWG#: 17-095</td>
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<tr>
<td>2-1/4” .030 Galvanized Steel BERTHA™ Panel</td>
<td>FL 11969 DWG#: 17-099</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>2-1/4” BERTHA™ Clear Panel</td>
<td>FL 11968 DWG#: 17-098</td>
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<tr>
<td>BERTHA™ Guard Fabric Panel+</td>
<td>FL 13271 DWG#: 17-4890</td>
<td>HurricaneFabric.com FL 17661 DWG#: 15-2452</td>
<td></td>
<td>NOA 15-0316.09 DWG#: 14-2202</td>
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</tr>
</tbody>
</table>

### Non-ASSA Bahama & Colonial Shutters; Supreme Impact System:

<table>
<thead>
<tr>
<th>Product</th>
<th>FBC (Non-HVHZ)</th>
<th>FBC (HVHZ)</th>
<th>TDI Evaluation</th>
<th>IBC/IRC</th>
<th>Miami-Dade NOA#</th>
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</thead>
<tbody>
<tr>
<td>BERTHA™ Board &amp; Batten Shutter</td>
<td>FL 11967 DWG#: 17-215</td>
<td></td>
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<tr>
<td>Aluminum Bahama Shutter</td>
<td>FL 14452 DWG#: 17-101</td>
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<tr>
<td>Aluminum Colonial Shutter</td>
<td>FL 14451 DWG#: 17-093</td>
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<tr>
<td>Brickhouse Low Profile Colonial Shutter</td>
<td></td>
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</tbody>
</table>

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)

For specific product approvals and code standards contact your EMS Sales Representative.

+ See www.hurricanefabric.com for more information

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Eastern Metal Supply

FL: 800-432-2204 NC/DE/GA: 800-343-8154
TX/AR: 800-996-6061 MO/OH: 888-822-6061
www.EasternMetal.com info@EasternMetal.com

Hurricane 01

04/08/20
2" BERTHA™ ROLL FORM STORM PANEL SYSTEM

Before Installation

<table>
<thead>
<tr>
<th>2&quot; Panels</th>
<th>Hemmed</th>
<th>Knurled</th>
</tr>
</thead>
<tbody>
<tr>
<td>.050 Aluminum</td>
<td>FL, NC</td>
<td>FL, NC</td>
</tr>
<tr>
<td>.050 Aluminum - 1/2 panel</td>
<td>N/A</td>
<td>FL, NC</td>
</tr>
<tr>
<td>24 Gauge Galv Steel</td>
<td>FL</td>
<td>FL, NC</td>
</tr>
<tr>
<td>24 Gauge Galv Steel - 1/2</td>
<td>N/A</td>
<td>FL</td>
</tr>
</tbody>
</table>

After Installation

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" .050 BERTHA™ Aluminum Storm Panel
Mill Finish
1/2 panel available

Code Approved:
FBC (Non-HVHZ), TDI, IBC/IRC

2" 24-Gauge BERTHA™ Galvanized Steel Panel
1/2 panel available

Code Approved:
FBC (Non-HVHZ), TDI, IBC/IRC

2" BERTHA™ Clear Panel
1/2 panel available

Code Approved:
FBC (Non-HVHZ), FBC (HVHZ), TDI, IBC/IRC, Miami-Dade

2" 28-Gauge BERTHA™ Galvanized Steel Panel

Code Approved:
FBC (Non-HVHZ), FBC (HVHZ)

2" Coverage Chart

<table>
<thead>
<tr>
<th># of Panels</th>
<th>2&quot; Total Coverage</th>
<th>Cut Mounting</th>
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<tbody>
<tr>
<td>1</td>
<td>13.375&quot;</td>
<td>14.375&quot;</td>
</tr>
<tr>
<td>1.5</td>
<td>19.250&quot;</td>
<td>20.250&quot;</td>
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<tr>
<td>2</td>
<td>25.375&quot;</td>
<td>26.375&quot;</td>
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<tr>
<td>2.5</td>
<td>31.250&quot;</td>
<td>32.250&quot;</td>
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<td>3</td>
<td>37.250&quot;</td>
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<td>3.5</td>
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<tr>
<td>4</td>
<td>49.375&quot;</td>
<td>50.375&quot;</td>
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<tr>
<td>4.5</td>
<td>55.250&quot;</td>
<td>56.250&quot;</td>
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<tr>
<td>5</td>
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<td>6</td>
<td>72.750&quot;</td>
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<tr>
<td>6.5</td>
<td>78.625&quot;</td>
<td>80.625&quot;</td>
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<td>7</td>
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<td>7.5</td>
<td>90.500&quot;</td>
<td>92.500&quot;</td>
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<td>8</td>
<td>96.500&quot;</td>
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<tr>
<td>8.5</td>
<td>102.375&quot;</td>
<td>104.375&quot;</td>
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<tr>
<td>9</td>
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<td>114.250&quot;</td>
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<td>10</td>
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<td>122.125&quot;</td>
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<td>126.000&quot;</td>
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<td>11</td>
<td>132.000&quot;</td>
<td>134.000&quot;</td>
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<tr>
<td>11.5</td>
<td>137.875&quot;</td>
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<tr>
<td>12</td>
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<td>12.5</td>
<td>149.625&quot;</td>
<td>152.625&quot;</td>
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<td>14</td>
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<td>170.375&quot;</td>
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<td>14.5</td>
<td>173.250&quot;</td>
<td>176.250&quot;</td>
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<tr>
<td>15</td>
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<td>15.5</td>
<td>185.500&quot;</td>
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<td>16</td>
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<td>200.375&quot;</td>
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<tr>
<td>17</td>
<td>203.625&quot;</td>
<td>206.625&quot;</td>
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<tr>
<td>17.5</td>
<td>209.500&quot;</td>
<td>212.500&quot;</td>
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<tr>
<td>18</td>
<td>215.500&quot;</td>
<td>218.375&quot;</td>
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</tbody>
</table>

Code Approved:
FBC (Non-HVHZ), FBC (HVHZ), TDI, IBC/IRC, Miami-Dade

Code Approved:
FBC (Non-HVHZ), FBC (HVHZ)

Eastern Metal Supply
Quality Shapes In Aluminum

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

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

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

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

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

website: www.easternmetal.com  e-mail: info@easternmetal.com  version: 09/05/19
CODE APPROVED BERTHA™ HEADERS: 2” X .094

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

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

1” Build-Out BERTHA™ Header
2” x .094” x 20’
40-WH-3550 White
40-MB-3550 Bronze

2” Build-Out BERTHA™ Header
2” x .094” x 20’
40-WH-3560 White
40-MB-3560 Bronze

3” Build-Out BERTHA™ Header
2” x .094” x 20’
40-WH-3570 White
40-MB-3570 Bronze

BERTHA™ Studless Flat Track x 20’
40-63-615 (TX) M/F
40-WH-615 White
40-MB-615 Bronze

BERTHA™ 1” Studless Track x 20’
40-WH-630 White
40-MB-630 Bronze

BERTHA™ 2” Studless Track x 20’
40-WH-632 White
40-MB-632 Bronze

BERTHA™ 3” Studless Track x 20’
40-WH-635 White

BERTHA™ Studless Angle Track x 20’
40-WH-610 White
40-MB-610 Bronze

BERTHA™ Reverse “F” Track x 20’
40-WH-620 White

BERTHA™ Stucco F-Track x 20’
1/2” MILL ORDER 52-63-5615

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

**All panels are available cut-to-length**

<table>
<thead>
<tr>
<th><strong>2-1/4” Panels</strong></th>
<th>Hemmed</th>
<th>Knurled</th>
</tr>
</thead>
<tbody>
<tr>
<td>.040 Aluminum</td>
<td>N/A</td>
<td>FL</td>
</tr>
<tr>
<td>.050 Aluminum</td>
<td>N/A</td>
<td>FL</td>
</tr>
<tr>
<td>24 Gauge Galv Steel</td>
<td>FL</td>
<td>FL</td>
</tr>
<tr>
<td>24 Gauge Galv Steel-1/2</td>
<td>N/A</td>
<td>FL</td>
</tr>
<tr>
<td>.030 Miami Dade Galv Steel</td>
<td>N/A</td>
<td>FL</td>
</tr>
</tbody>
</table>

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), IBC/IRC

### 2-1/4” .050 BERTHA™ Aluminum Storm Panel
- **Mill Finish**
- Code Approved: FBC (Non-HVHZ), FBC (HVHZ), TDI, IBC/IRC, Miami-Dade

### 2-1/4” BERTHA™ Clear Panel
- Code Approved: FBC (Non-HVHZ), TDI, IBC/IRC

### 2-1/4” 24-Gauge BERTHA™ Galvanized Steel Panel
- **1/2 panel available**
- Code Approved: FBC (Non-HVHZ), IBC/IRC

### 2-1/4” .030 BERTHA™ Galvanized Steel Panel
- **1/2 panel available**
- Code Approved: FBC (HVHZ)

### 2-1/4” ValueGuard Panel x 240”
- 103-06-240 (NC/TX) White Translucent CLOSEOUT
- Code Approved: FBC (Non-HVHZ), TDI, IBC/IRC

### Pre-Cut 2-1/4” Storm Panels
- FL: In Stock; NC: Mfg lead time less than 1 week

<table>
<thead>
<tr>
<th>.040 Aluminum</th>
<th>.050 Aluminum</th>
<th>Clear Panel</th>
</tr>
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<tbody>
<tr>
<td>Mill Finish</td>
<td>Mill Finish</td>
<td>Polycarbonate</td>
</tr>
<tr>
<td>80-40-33 x 33”</td>
<td>77-52-33 x 33”</td>
<td>79-06-33 x 33”</td>
</tr>
<tr>
<td>80-40-47 x 47”</td>
<td>77-52-47 x 47”</td>
<td>79-06-47 x 47”</td>
</tr>
<tr>
<td>80-40-57 x 57”</td>
<td>77-52-57 x 57”</td>
<td>79-06-57 x 57”</td>
</tr>
<tr>
<td>80-40-70 x 70”</td>
<td>77-52-70 x 70”</td>
<td>79-06-70 x 70”</td>
</tr>
<tr>
<td>80-40-88 x 88”</td>
<td>77-52-88 x 88”</td>
<td>79-06-88 x 88”</td>
</tr>
<tr>
<td>80-40-102 x 102”</td>
<td>77-52-102 x 102”</td>
<td>79-06-102 x 102”</td>
</tr>
</tbody>
</table>

**Code Approved:** FBC (Non-HVHZ), TDI, IBC/IRC

### Hurricane 04
- One Panel
- Two Panels
- One & a Half Panels

---

EMT FL 1-800-432-2204 (561) 588-4780 - fax
EMT NC 1-800-343-8154 (704) 391-2267 - fax
EMT TX 1-800-996-6061 (281) 656-2297 - fax
EMT MO 1-888-822-6061 (314) 344-3349 - fax

**Additional Locations:** West Palm Beach & Lakeland, FL; Newark, DE; Birmingham, AL and Akron, OH

**website:** www.easternmetal.com  **e-mail:** info@easternmetal.com  **version:** 10/11/17
**2-1/4” x .075 BERTHA™ CODE APPROVED HEADERS & STUDLESS TRACKS**

<table>
<thead>
<tr>
<th>BERTHA™ U-Header</th>
<th>BERTHA™ H-Header</th>
<th>1” Build-Out BERTHA™ Header</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-1/4” x .075” x 19’</td>
<td>2-1/4” x .075” x 19’</td>
<td>2-1/4” x .075” x 19’</td>
</tr>
<tr>
<td>41-WH-510 White</td>
<td>41-WH-500 White</td>
<td>41-WH-520 White</td>
</tr>
<tr>
<td>41-MB-510 Bronze</td>
<td>41-MB-500 Bronze</td>
<td>41-MB-520 Bronze</td>
</tr>
</tbody>
</table>

**Custom Lengths**

**White (FL)**

- 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”

**2” Build-Out BERTHA™ Header**

<table>
<thead>
<tr>
<th>2-1/4” x .075” x 19’</th>
<th>3” Build-Out BERTHA™ Header</th>
<th>BERTHA™ 1” Studless Track x 20’</th>
</tr>
</thead>
<tbody>
<tr>
<td>41-WH-522 White</td>
<td>41-WH-525 White</td>
<td>40-WH-630 White</td>
</tr>
<tr>
<td></td>
<td></td>
<td>40-MB-630 Bronze</td>
</tr>
</tbody>
</table>

**BERTHA™ Studless Flat Track x 20’**

| 40-63-615 (TX) M/F | 40-WH-615 White | 40-MB-615 Bronze |

**BERTHA™ 2” Studless Track x 20’**

<table>
<thead>
<tr>
<th>40-63-615 White</th>
<th>40-WH-620 White</th>
</tr>
</thead>
<tbody>
<tr>
<td>40-MB-632 Bronze</td>
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</tr>
</tbody>
</table>

**BERTHA™ Reverse “F” Track x 20’**

<table>
<thead>
<tr>
<th>40-63-615 White</th>
<th>40-WH-620 White</th>
</tr>
</thead>
<tbody>
<tr>
<td>40-MB-632 Bronze</td>
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</tr>
</tbody>
</table>

**BERTHA™ 3” Studless Track x 20’**

<table>
<thead>
<tr>
<th>40-WH-635 White</th>
<th>41-WH-520 White</th>
</tr>
</thead>
<tbody>
<tr>
<td>40-MB-610 Bronze</td>
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</tr>
</tbody>
</table>

**BERTHA™ Studless Angle Track x 20’**

<table>
<thead>
<tr>
<th>1/2” MILL ORDER 52-63-615</th>
</tr>
</thead>
</table>

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### BERTHA™ STUDDED TRACKS

#### BERTHA™ Studded Angle

<table>
<thead>
<tr>
<th>Size</th>
<th>Finish</th>
<th>Reverse</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 x 2 x .093</td>
<td>M/F</td>
<td>11-WH-500RS</td>
</tr>
<tr>
<td>20' 6&quot; on center</td>
<td>White</td>
<td>11-MB-500RS</td>
</tr>
<tr>
<td>11-MF-500</td>
<td>M/F</td>
<td>N/A</td>
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<tr>
<td>11-WH-500</td>
<td>White</td>
<td>11-WH-500RS</td>
</tr>
<tr>
<td>11-MB-500</td>
<td>Bronze</td>
<td>11-MB-500RS</td>
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#### BERTHA™ Low Profile Studded Angle

<table>
<thead>
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<th>Size</th>
<th>Finish</th>
<th>Reverse</th>
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</thead>
<tbody>
<tr>
<td>1.75 x 5/8 x 24' 3&quot;</td>
<td>N/A</td>
<td>SPECIAL ORDER 11-MF-510RS</td>
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<tr>
<td>6&quot; on center</td>
<td>White</td>
<td>11-WH-455</td>
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<tr>
<td>11-WH-500</td>
<td>White</td>
<td>11-WH-460</td>
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<td>11-MB-500</td>
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<tr>
<td>11-WH-650</td>
<td>Bronze</td>
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</tbody>
</table>

#### BERTHA™ Studded Plate x 20' 3"

<table>
<thead>
<tr>
<th>Size</th>
<th>Finish</th>
<th>Reverse</th>
</tr>
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<tbody>
<tr>
<td>52-63-8291</td>
<td>Mates with Studded Plate (below)</td>
<td>non studded</td>
</tr>
<tr>
<td>52-WH-8291</td>
<td>Mates with Snap Cap (above)</td>
<td>6&quot; on center</td>
</tr>
<tr>
<td>MILL ORDER 52-WH-8295 (FL)</td>
<td>12&quot; on center</td>
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<tr>
<td>11-WH-75</td>
<td>White</td>
<td>11-WH-87</td>
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<tr>
<td>11-WH-87</td>
<td>White</td>
<td>11-WH-99</td>
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<td>11-WH-99</td>
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<td>11-WH-101</td>
<td>White</td>
<td>11-WH-101</td>
</tr>
</tbody>
</table>

### Additional Information

- **EMSS FL**
  - 1-800-432-2204
  - (561) 588-4780 - fax
- **EMSS NC**
  - 1-800-343-8154
  - (704) 391-2267 - fax
- **EMSS TX**
  - 1-800-996-6061
  - (281) 656-2297 - fax
- **EMSS MO**
  - 1-888-822-6061
  - (314) 344-3349 - fax

**Additional Locations:** West Palm Beach & Lakeland, FL; Newark, DE; Birmingham, AL and Akron, OH

**Website:** www.easternmetal.com

**E-mail:** info@easternmetal.com

**Version:** 08/15/16
BERTHA™ ASTROGUARD
MASTER ROLL
2,825 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™ ASTROGUARD
CUT-TO-LENGTH
Clips Included 6" O/C - 2 Sides Only
41-WH-95300 White
41-TN-95300 Tan
Based on Length

BERTHA™ ASTROGUARD
CUT-TO-SIZE
Clips Included 12" O/C - 2 Sides Only
41-WH-95300 White
41-TN-95300 Tan
Based on Square Footage

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

BERTHA™ ASTROGUARD
CLIP (one each)
#8 x 1/2" SMS Pan Head Phillips 410 SS (Bag of 8)
41-85410PH

BERTHA™ ASTROGUARD
STORAGE BAG
28.5" wide x 44" Long
41-AG-BAG Maroon

BERTHA™ ASTROGUARD LABEL
(FBC) (250 per roll)
LABEL-5

BERTHA™ ASTROGUARD WHITE
SAMPLE
10" x 10" with Label & Clip
41-WH-AGSAMPLE White
41-TN-AGSAMPLE Tan

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<table>
<thead>
<tr>
<th>Product Description</th>
<th>FBC (Non-HVHZ)</th>
<th>FBC (HVHZ)</th>
<th>TDI Evaluation</th>
<th>IBC/IRC</th>
<th>Miami-Dade Assoc. Approval</th>
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<tbody>
<tr>
<td>HV® Accordion System (Blade 1)</td>
<td>FL 389 DWG# 17-107</td>
<td>FL 1850 DWG# 17-122</td>
<td>SHU-147 DWG# 12-169</td>
<td>DWG# 03-035</td>
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<td>HV® Accordion System (Combo - Blade 1 &amp; 2)</td>
<td>FL 389 DWG# 17-106</td>
<td>FL 1850 DWG# 17-102</td>
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<td>HV® Essential Accordion</td>
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<td>Pending</td>
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<tr>
<td>40mm BERTHA™ Roll Shutter NON-Retention</td>
<td>FL 400 DWG# 17-228</td>
<td>FL 400 DWG# 17-227</td>
<td>SHU-107 DWG# 13-029</td>
<td>DWG# 02-510</td>
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<td>SHU-107 DWG# 13-029</td>
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<td>40mm BERTHA™ ER Roll Shutter End Retention</td>
<td>FL 16903 DWG# 17-226</td>
<td>FL 17204 DWG# 17-225</td>
<td>SHU-217 DWG# 15-013</td>
<td>DWG# 15-166</td>
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<tr>
<td>55mm BERTHA™ ER Roll Shutter Retention &amp; Non Retention</td>
<td>FL 22558-R4 DWG#: EMS003</td>
<td>FL 22558-R4 DWG#: EMS003</td>
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<td>58mm BERTHA™ ER Roll Shutter Retention &amp; Non Retention</td>
<td>FL 5790-R12 DWG# 17-223</td>
<td>FL 17424 DWG# 17-224</td>
<td>SHU-224 DWG# 15-248</td>
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<td>Single Wall Slat Roll Shutter</td>
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<td>FL 19-8239</td>
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<tr>
<td>BERTHA™ Colonial Shutter (Impact)</td>
<td>FL 2681 DWG# 17-114 Combo</td>
<td>FL 2681 DWG# 17-105 Non Combo</td>
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<td>DWG# 06-214</td>
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<tr>
<td>BERTHA™ Bahama Shutter (Impact)</td>
<td>FL 2683 DWG# 17-114 Combo</td>
<td>FL6566 DWG# 17-104 Non Combo</td>
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<td>DWG# 06-214</td>
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<td>SHU-146 DWG# 12-168</td>
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<td>DWG# 07-004</td>
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<tr>
<td>HIGH VISIBILTY (HV) Bahama Shutter</td>
<td>FL 8523 DWG# 17-109</td>
<td>SHU-145 DWG# 12-167</td>
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<td>DWG# 07-005</td>
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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

05/21/20
BERTHA HV® ACCORDION SHUTTER - BLADES 1 & 2
Code Approvals: FBC (non-HVHZ), FBC (HVHZ), IBC/IRC

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

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

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

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

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

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

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

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

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

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

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

BERTHA HV® BLADE #2
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41-COLOR-424  (4 Pcs.)
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
Felt: 41-HV-320

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

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

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

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

BERTHA HV® BLADE #1
41-COLOR-400  x 14’ 6” (10 Pcs/Sub)
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41-COLOR-410  x 18’
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Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
Felt: 41-HV-320

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41-COLOR-425  (4 Pcs.)
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
Felt: 41-HV-320

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

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

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<table>
<thead>
<tr>
<th>Model Description</th>
<th>Color Code</th>
<th>Pcs.</th>
<th>Available Colors</th>
<th>Felt Code</th>
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<tr>
<td>BERTHA HV® HD CEILING HEADER #2 x 20'</td>
<td>41-COLOR-430</td>
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<td>BERTHA HV® HD 3/8&quot; BUILD OUT HEADER #2 x 20'</td>
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<td>BERTHA HV® HD 1&quot; BUILD OUT HEADER #2 x 20'</td>
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<td>BERTHA HV® HD 1&quot; DIRECT MOUNT STARTER x 20'</td>
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<td>BERTHA HV® 90/180 STARTER x 20'</td>
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<td>White (WH), Ivory (IV), Bronze (MB) and Beige (BG)</td>
<td>41-HV-320</td>
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</table>

**Additional Information**
- **Website:** www.EasternMetal.com
- **E-mail:** info@EasternMetal.com
- **Version:** 03/06/19
- **Copyright:** 2007-2020 Eastern Metal Supply, Inc. HV™, BERTHA HV® and BERTHA® are trademarks of Eastern Metal Supply, Inc. ASSA® is a trademark of the American Shutter Systems Association. All rights reserved.
BERTHA HV® ADJUSTABLE TRACK w/FELT x 20’
41-COLOR-423 (6 Pcs.)
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
Felt: 41-HV-320

BERTHA HV® SILL ADAPTOR W/LIP x 20’
90-COLOR-012 (6 Pcs.)
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

BERTHA HV® WALKOVER TRACK x 20’
41-COLOR-440 (6 Pcs.)
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
Felt: 41-HV-320
Accepts Vinyl Inserts (p15)

BERTHA HV® ANODIZED TRENCH TRACK x 20’
41-63-437 Silver Anodized
Felt: 41-HV-320

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

BERTHA HV® CENTERMATE #1 X 20’
41-COLOR-421 (6 Pcs.) Self Mating
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

BERTHA HV® FLOATING CENTERMATE #2 X 20’
41-COLOR-422 (4 Pcs.)
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

BERTHA HV® FEMALE T LOCK x 20’
41-COLOR-438 (4 Pcs.)
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

BERTHA HV® MALE T LOCK x 20’
41-COLOR-437 (4 Pcs.)
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

BERTHA HV® J-CLIP
52-63-4159F for T-Handle Lock
MF with pretreat; 4” x 2.75” x .125”
1/4” hole
100 pc/box

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Additional Locations: West Palm Beach & Lakeland, FL; Newark, DE; Akron, OH, Van Buren, AR; Atlanta, GA and Dallas, TX
website: www.EasternMetal.com e-mail: info@EasternMetal.com version: 03/06/19
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® RAINGUARD x 17’
41-COLOR-460 (10 Pcs.)
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

BERTHA HV® HD™ CENTERMATE
WITH RODS x 20’
41-COLOR-435
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

BERTHA HV® RAINGUARD x 17’
41-COLOR-460 (10 Pcs.)
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

BERTHA HV® HD™ INSERT x 20’
41-COLOR-436
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

BERTHA HV® RAINGUARD x 17’
41-COLOR-460 (10 Pcs.)
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

BERTHA HV® BUILD-OUT ANGLE x 20’
2 x 5 x .190 x 20’ With Inside Radius
11-COLOR-413 6063-T6
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

BERTHA HV® BUILD-OUT ANGLE x 20’
2-1/2 x 7 x .190 x 20’ With Inside Radius
11-COLOR-420 6063-T6
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)

BERTHA HV® VINYL INSERTS
Mates with Walkover Track 41-COLOR-440
41-WH-Insert2 White x 8’
41-IV-Insert2 Ivory x 8’
41-MB-Insert2 Bronze x 8’
41-BG-Insert2 Beige x 8’
41-BK-Insert Black x 12’

BERTHA HV® COMBO BLADE LABEL
LABEL-3 (250 per Roll)

Warning:
During periods of hurricane warnings, homeowner, tenant or others must properly close all BERTHA HV® & HD centermates and engage or lock all BERTHA HV® & HD locks.

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**BERTHA HV® ACCORDION WINDOW**

**41-HV-WINDOW**

*Patent Pending*

**3 HOLES - HV® BLADE # 1 X 8’**

Punched Window 3 Holes

**41-COLOR-96P3**

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

**41-COLOR-96P5**

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

- 3” Diameter Viewports on Blade (5 each)
- 36-1/2” End of Blade to centerline of first opening
- Spacing @ 5-3/4” On Center

---

**HVPUNCH-1**

(PIC at Right)

Top Row Components Left to Right:

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

Center Row Components Left to Right:

- Slug Knockout Tool / HV Window Hand Tool

Bottom Row Components Left to Right:

- Cutting Die with Thrust Bearing / 1” Hole Saw

---

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

**EMS NC** 1-800-343-8154 (704) 391-2267 - fax

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

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

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

*website:* www.EasternMetal.com  *e-mail:* info@EasternMetal.com  *version:* 03/20/19
BERTHA HV® ACCORDION SHUTTER - BLADE 3
Code Approvals: FBC (non-HVHZ), FBC (HVHZ)

BERTHA HV® BLADE #3
41-COLOR-4100 x 18'
CLOSEOUT!

BERTHA HV® CEILING HEADER #1 x 20'
41-COLOR-424 (4 Pcs.)
Felt: 41-HV-320

BERTHA HV® (3) 3/8” BUILD OUT TRACK x 20'
41-COLOR-462
Felt: 41-HV-320

BERTHA HV® 1” BUILD OUT TRACK x 20'
41-COLOR-426
Felt: 41-HV-320

BERTHA HV® (3) 2” BUILD OUT TRACK x 20'
41-COLOR-468
Felt: 41-HV-320

BERTHA HV® (3) 3/8” DIRECT MOUNT x 20'
41-COLOR-466

BERTHA HV® (3) 1” DIRECT MOUNT x 20'
41-COLOR-465

BERTHA HV® (3) 2” DIRECT MOUNT x 20'
41-COLOR-469

BERTHA HV® 90/180 STARTER x 20'
41-COLOR-415

BERTHA HV® ADJ TRACK w/ FELT x 20'
41-COLOR-423 (6 Pcs.)
Felt: 41-HV-320

BERTHA HV® (3) SILL ADAPTOR W/LIP x 20'
41-COLOR-464

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

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COMING SOON  

**HV® ESSENTIAL ACCORDION SHUTTER**

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

**BERTHA HV™ BLADE #1**
- 41-COLOR-400 x 14' 6"
- 41-COLOR-405 x 16' 6"
- 41-COLOR-410 x 18'
(10 Pcs/Sub; 120 Pcs/Master)

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

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

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

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

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

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

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

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

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

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

**HV® Holdback Clip**
For Flat Centermates
- HVCLIPFC/WH - White
- HVCLIPFC/BK - Black
- HVCLIPFC/IVBE - Ivory Beige

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

COMING SOON
BERTHA HV® ACCORDION SHUTTER SAMPLES

BERTHA HV® ACCORDION KIT
HV-KIT
Includes Mini Sample;
Boxed 6" HV Blade 1 Components

SPECIAL ORDER HV-KIT3
Includes Mini Sample;
Boxed 6" HV Blade 3 Components

BERTHA HV® “HEAVY DUTY” CENTERMATE SAMPLE
HD-SAMPLE 17” x 30”
Top Track: 1” Build-Out Header
Bottom Track: Walkover
Centermate: "HD" Centermate

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

BERTHA HV® ACCORDION SHUTTER RADIUS TRACK

**HV ® Accordion Shutter Radius Track**
IN STOCK - HD Tracks Ceiling/Ceiling
52-COLOR-145 (Inside/HD) 45° Color*
52-WH-190 (Inside/HD) 90° White
52-MB-190 (Inside/HD) 90° Bronze

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

Ideal for Large Balconies or Bay Windows
Covered under US Patents 5458179 and 6779585

---

BERTHA HV® CENTERMATE SAMPLE
HV-SAMPLE 17” x 30”
Top Track:
1” Build-Out Header
Bottom Track:
Walkover
Centermate:
BERTHA HV® Centermate

---

**SPECIAL ORDER - Call for more information**

**Custom Sizes & Lengths are Also Available**
Available for HD™ Tracks and SHD™ Tracks (High Rise)

<table>
<thead>
<tr>
<th>Track</th>
<th>Radius</th>
<th>HD Tracks Ceiling/Ceiling</th>
<th>Ceiling/Slit/Adaptor</th>
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<td>Inside</td>
<td>22.5°</td>
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<td>HD</td>
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<td>HD</td>
<td>Inside</td>
<td>90°</td>
<td>52-COLOR-190</td>
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<td>Outside</td>
<td>22.5°</td>
<td>52-COLOR-222</td>
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<td>HD</td>
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<td>30°</td>
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<td>HD</td>
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<td>45°</td>
<td>52-COLOR-245</td>
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<td>HD</td>
<td>Outside</td>
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<td>HD</td>
<td>Outside</td>
<td>90°</td>
<td>52-COLOR-290</td>
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<td>SHD</td>
<td>Inside</td>
<td>22.5°</td>
<td>52-COLOR-322</td>
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<td>SHD</td>
<td>Inside</td>
<td>30°</td>
<td>52-COLOR-330</td>
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<td>90°</td>
<td>52-COLOR-390</td>
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<td>22.5°</td>
<td>52-COLOR-422</td>
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<td>30°</td>
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<tr>
<td>SHD</td>
<td>Outside</td>
<td>90°</td>
<td>52-COLOR-490</td>
</tr>
</tbody>
</table>

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

---

Hurricane 16

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

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

**website:** www.EasternMetal.com  **e-mail:** info@EasternMetal.com  **version:** 03/06/19
<table>
<thead>
<tr>
<th>HV Accordion Screws</th>
<th>HV Bushings (boxes of 100)</th>
<th>HV Wheel Carriage</th>
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<tr>
<td>14D275TUW4/HV</td>
<td>HVLONG1 Long White</td>
<td>WC10</td>
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<td>14D175TUW4/HV</td>
<td>HVLONG2 Long Black</td>
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<tr>
<td>10N275TUW4/HV</td>
<td>HVSHORT1 Short White</td>
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<td>HVSHORT2 Short Black</td>
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<td>HVHAT1 Hat White Only</td>
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<tr>
<td>HV Push Button Lock</td>
<td>HV Egress Lock</td>
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<tr>
<td>LOHV/WH White</td>
<td>LOHVTT/WH White</td>
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</tr>
<tr>
<td>LOHV/BZ Bronze</td>
<td>LOHVTT/BZ Bronze</td>
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<tr>
<td>LOHV/BE Beige</td>
<td>LOHVTT/BE Beige</td>
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<td>LOHV/IV Ivory</td>
<td>LOHVTT/IV Ivory</td>
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<td>LOHVTT (cylinder only)</td>
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<td>HD Lock</td>
<td>HV T-Handle Lock with J-Clip</td>
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<td>LOHRHB</td>
<td>LO/WH White</td>
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<tr>
<td>Hook Bolt Mortise Lock –SS</td>
<td>LO/BZ Bronze</td>
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<tr>
<td>LOBRCL Key cylinder – Brass/SS</td>
<td>LO/IV Ivory</td>
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<tr>
<td>LOBRTT Thumb turn cylinder – brass/SS</td>
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<td>LO/BE Beige</td>
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<tr>
<td>HV Snap Track</td>
<td>HV Holdback Clip</td>
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<tr>
<td>ECSC</td>
<td>HVCLIP/BZ Black</td>
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<td>HVCLIP/WH White</td>
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<td></td>
<td>HVCLIPFC/WH White (for Flat Centermates)</td>
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<td>HVCLIPFC/BK Black (for Flat Centermates)</td>
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<tr>
<td></td>
<td>HVCLIPFC/IVBE Ivory Beige (for Flat Centermates)</td>
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<tr>
<td>HV Saltwater Lock &amp; HV Thumbscrews</td>
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<tr>
<td>HVPLATE - Stainless Steel Plate</td>
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</tr>
<tr>
<td>31C100MTPB/HV Black Thumbscrew</td>
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<td>31C100MTPW/HV White Thumbscrew</td>
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<tr>
<td>HV Locking Pins</td>
<td>Please specify ¼-20 or 3/8-16 thumbscrew. Also specify Stainless Steel or Nylon thumbscrew</td>
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<tr>
<td>HV 3/8 X ½ Acetel® Thumb Screw</td>
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<tr>
<td>37C75MTSN White</td>
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<tr>
<td>37C75MTSN/B Black</td>
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<tr>
<td>Hurricane 17</td>
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</tr>
</tbody>
</table>
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 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 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 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

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

40mm Hand Held Sample
40ERDW-SAMPLE
Double Wall
SPECIAL ORDER 40ERSW-SAMPLE
Single Wall
17” x 8” with Base Slat & Lock

Roll Shutter Track Felt
(.200/.270)
41-HV-200 Black Felt Roll x 2000’

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

40mm Large Leg Track x 24’
40-COLOR-486
Mates 40-COLOR-476, 40-COLOR-481
Sub Bundle Size: 30

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

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

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

website: www.EasternMetal.com  e-mail: info@EasternMetal.com  version: 03/19/20
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

**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

**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

**Somfy myLink™**
- 1811264
- Requires RTS Motor; Free App Download

**40mm Single Wall Sample with Assist Spring**
- 40ERSW-SPRING
- 24” x 24”
- Manually operated by hand

**Additional 40mm Extrusions & Acc. on Previous page (Hurricane 19)**

---

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

**website:** www.EasternMetal.com  
**e-mail:** info@EasternMetal.com  
**version:** 02/13/20
<table>
<thead>
<tr>
<th>Product Description</th>
<th>Code</th>
<th>Image</th>
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<tr>
<td>55 MM VENTED Slat x 24'</td>
<td>40-COLOR-980</td>
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<tr>
<td>55mm ER NON VENTED View Port Slat x 24'</td>
<td>40-COLOR-980VPNV</td>
<td><img src="image2.png" alt="Image" /></td>
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<tr>
<td>55mm ER Slat Lock Black</td>
<td>40-63-786 One Piece - NEW!</td>
<td><img src="image3.png" alt="Image" /></td>
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<tr>
<td>55mm ER View Port Insert (.118 x .845 x 96&quot;)</td>
<td>40-VP-990 Clear Polycarbonate</td>
<td><img src="image4.png" alt="Image" /></td>
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<tr>
<td>55mm Small Leg Track x 24'</td>
<td>40-COLOR-476</td>
<td><img src="image5.png" alt="Image" /></td>
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<tr>
<td>55mm Large Leg Track x 24'</td>
<td>40-COLOR-481</td>
<td><img src="image6.png" alt="Image" /></td>
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<tr>
<td>55mm Small Leg Closed Face Track x 22’ 6”</td>
<td>40-COLOR-478</td>
<td><img src="image7.png" alt="Image" /></td>
</tr>
<tr>
<td>55mm Large Leg Closed Face Track x 22’ 6”</td>
<td>40-COLOR-483</td>
<td><img src="image8.png" alt="Image" /></td>
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<tr>
<td>55 MM End Retention Assembly Screws</td>
<td>41108-100 (bags of 100)</td>
<td><img src="image9.png" alt="Image" /></td>
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<tr>
<td>55mm Small Leg Closed Face Track x 22’ 6”</td>
<td>40-COLOR-481</td>
<td><img src="image10.png" alt="Image" /></td>
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<tr>
<td>55mm Large Leg Closed Face Track x 22’ 6”</td>
<td>40-COLOR-483</td>
<td><img src="image11.png" alt="Image" /></td>
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<td>55mm ER Hand Held Sample</td>
<td>55ER-SAMPLE</td>
<td><img src="image12.png" alt="Image" /></td>
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<tr>
<td>Base Slat Cylinder Lock</td>
<td>2003432-1</td>
<td><img src="image13.png" alt="Image" /></td>
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<tr>
<td>Base Slat Locking Rod</td>
<td>10-63-265 Mill Finish</td>
<td><img src="image14.png" alt="Image" /></td>
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<tr>
<td>Base Slat Lock Guide</td>
<td>40-BK-800 Black Plastic</td>
<td><img src="image15.png" alt="Image" /></td>
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<tr>
<td>Roll Shutter Track Felt</td>
<td>41-HV-200 Black Felt Roll x 2000’</td>
<td><img src="image16.png" alt="Image" /></td>
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<tr>
<td>40mm Base Slat x 20’</td>
<td>40-COLOR-100</td>
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<td>55mm ER BERTHA™ END RETENTION SYSTEM (ER)</td>
<td>Code Approvals: FBC Non-HVHZ, FBC HVHZ, TDI</td>
<td><img src="image18.png" alt="Image" /></td>
</tr>
</tbody>
</table>

**Available Colors:**
- White (WH)
- Ivory (IV)
- Bronze (MB)
- Beige (BG)

**Additional Information:**
- EMS FL: 1-800-432-2204, (561) 588-4780 - fax
- EMS NC: 1-800-343-8154, (704) 391-2267 - fax
- EMS TX: 1-800-996-6061, (281) 656-2297 - fax
- EMS MO: 1-888-822-6061, (314) 344-3349 - fax

**Website:** www.EasternMetal.com | **Email:** info@EasternMetal.com | **Version:** 03/19/20
58MM BERTHA™ END RETENTION SYSTEM (ER)
Code Approvals: FBC (non-HVHZ); Open Back Slat: FBC (non-HVHZ), TDI

<table>
<thead>
<tr>
<th>58mm BERTHA™ ER SLAT VENTED x 21’</th>
<th>58mm BERTHA™ ER VIEW PORT SLAT x 24’</th>
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<tbody>
<tr>
<td>40-COLOR-810PC</td>
<td>40-Color-805PCVPNV 1 x 2 Window</td>
</tr>
<tr>
<td>VENTED x 24’</td>
<td>CLEAR POLYCARBONATE VIEW PORT INSERT X 8’</td>
</tr>
<tr>
<td>40-COLOR-805PC</td>
<td>40-VP-805 1-7/16 x .090</td>
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<tr>
<td>NON EVENTED x 24’</td>
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<tr>
<td>40-WH-805PCNV</td>
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<tr>
<td>White</td>
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<tr>
<td>COLOR = available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)</td>
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</tr>
</tbody>
</table>

BERTHA™ ER SLAT LOCK GLIDE
40-63-799
boxed - 500 sets left and right

BERTHA™ SLAT LOCK
(Non-ER)
40-63-798
boxed - 1000 pcs

BERTHA™ DADE TRACK x 24’ 6”
(Non-ER)
41-COLOR-300
Available in White (WH), Ivory (IV), Bronze (MB)
Use with 41-HV-200 Felt

Cover Cap x 12’
40-COLOR-486
Mates with 40-COLOR-800
Sub Bundle Size: 30

BERTHA™ ER OPEN TRACK x 22’ 6”
(Open End)
40-COLOR-800
Mates with 40-COLOR-486
Use with 41-HV-200 Felt

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

Additional Locations: West Palm Beach & Lakeland, FL; Newark, DE; Akron, OH, Van Buren, AR; Atlanta, GA and Dallas, TX
website: www.EasternMetal.com e-mail: info@EasternMetal.com version: 03/19/20
**SINGLE WALL SLAT ROLL SHUTTER SYSTEM**

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

<table>
<thead>
<tr>
<th>Component</th>
<th>Specifications</th>
<th>Notes</th>
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<tr>
<td><strong>Single Wall Slat</strong></td>
<td>63mm</td>
<td>*PATENT PENDING</td>
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<tr>
<td>Finger Pull Slat</td>
<td>x 24'</td>
<td>40-COLOR-431 Use with spring loaded shutters only</td>
</tr>
<tr>
<td>Starter Slat</td>
<td>x 22' 6”</td>
<td>40-63-428 6063-T6 Mill Finish Mates with 40-63-429, 40-63-431; Also used with 40/55mm systems</td>
</tr>
<tr>
<td>Torsion Spring Adjuster Handle</td>
<td>T-SPN-22</td>
<td>Used with SPA-TOOL TSA-1</td>
</tr>
<tr>
<td><strong>Base Slat x 20’</strong></td>
<td>40-COLOR-100 Mates with 40-COLOR-105 Also used with 40/55/58mm systems</td>
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<tr>
<td><strong>Short Base Slat x 24’</strong></td>
<td>40-COLOR-432 Mates with 40-COLOR-105, 40-COLOR-427 Also used with 40/55/58mm systems</td>
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</tr>
<tr>
<td><strong>Base Cover x 20’</strong></td>
<td>40-COLOR-105 Mates with 40-COLOR-100, 40-COLOR-432 Also used with 40/55/58mm systems</td>
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<tr>
<td><strong>Short Base Slat T-Bar x 24’</strong></td>
<td>40-COLOR-427 Mates with 40-COLOR-432 Also used with 40/55/58mm systems</td>
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<tr>
<td><strong>60mm Direct Connect Tube x 24’</strong></td>
<td>40-63-431 6063-T6 Mill Finish Mates with 40-63-428</td>
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</tr>
<tr>
<td><strong>Cover Cap x 12’</strong></td>
<td>40-COLOR-486 Mates with 40-COLOR-476, 40-COLOR-481</td>
<td></td>
</tr>
<tr>
<td><strong>Roll Shutter Track Felt (.200/.270)</strong></td>
<td>41-HV-200 Black Felt Roll x 2000’</td>
<td></td>
</tr>
<tr>
<td>ER Screw</td>
<td>90003C</td>
<td>#10 - 8 x 2” 410 SS Dacroshield Coated (Packs of 100)</td>
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<tr>
<td><strong>Small ER Screw</strong></td>
<td>8N100UWA4</td>
<td>#8 - 8 x 1 Mod. Truss SDS 410 SS (Packs of 100)</td>
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<tr>
<td><strong>Single Wall Slat Lock Guide</strong></td>
<td>40-63-795 Nylon with UV Inhibitor (Bags of 200)</td>
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</tbody>
</table>

*COLOR available in: White (WH), Ivory (IV), Bronze (MB) and Beige (BG) | *PATENT PENDING

**Also Available:**
- Assist Springs: Hurricane 27
- Motors: Hurricane 38-40
- End Caps - Hurricane 31-32
- Hoods - Hurricane 33

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

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(281) 656-2297 - fax

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

**website:** www.EasternMetal.com  **e-mail:** info@EasternMetal.com  **version:** 05/28/20

---
## Bertha™ Painted Aluminum Square Tube

<table>
<thead>
<tr>
<th>Stock Code</th>
<th>Size in Inches</th>
<th>Approx. Wt/Lin ft.</th>
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<tbody>
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<td>19-WH-225</td>
<td>3 x .125 x 20'</td>
<td>White</td>
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<tr>
<td>19-WH-220</td>
<td>3 x .125 x 24'</td>
<td>White</td>
</tr>
<tr>
<td>19-MB-235</td>
<td>3 x .125 x 24'</td>
<td>Bronze</td>
</tr>
<tr>
<td>19-IV-235</td>
<td>3 x .125 x 24'</td>
<td>Ivory</td>
</tr>
<tr>
<td>19-BG-235</td>
<td>3 x .125 x 24'</td>
<td>Beige</td>
</tr>
<tr>
<td>19-BK-235</td>
<td>3 x .125 x 24'</td>
<td>Black</td>
</tr>
<tr>
<td>19-COLOR-240</td>
<td>3 x .250 x 24'</td>
<td>**</td>
</tr>
<tr>
<td>19-WH-245</td>
<td>4 x .125 x 20'</td>
<td>White</td>
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<td>19-WH-400</td>
<td>4 x .125 x 24'</td>
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<tr>
<td>19-MB-246</td>
<td>4 x .125 x 24'</td>
<td>Bronze</td>
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<td>19-IV-400</td>
<td>4 x .125 x 24'</td>
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</tr>
<tr>
<td>19-BG-400</td>
<td>4 x .125 x 24'</td>
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</tr>
<tr>
<td>19-BK-400</td>
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<tr>
<td>200-WH-028</td>
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<tr>
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<td>4 x .125 x 30'</td>
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</tr>
<tr>
<td>19-WH-2500</td>
<td>4 x .250 x 20'</td>
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</tr>
<tr>
<td>19-MB-2500</td>
<td>4 x .250 x 24'</td>
<td>Bronze</td>
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<tr>
<td>19-IV-2500</td>
<td>4 x .250 x 24'</td>
<td>Ivory</td>
</tr>
<tr>
<td>19-BG-2500</td>
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<td>Beige</td>
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<tr>
<td>19-WH-2501</td>
<td>4 x .250 x 24' 6&quot;</td>
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## Bertha™ Painted Aluminum Rectangular Tube

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<th>Approx. Wt/Lin ft.</th>
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<tbody>
<tr>
<td>20-COLOR-803</td>
<td>4 x 6 x .125 x 24'</td>
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</tr>
<tr>
<td>20-COLOR-805</td>
<td>4 x 6 x .250 x 20'</td>
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</table>

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

## Touch Up Spray Paint

16 ounce cans

<table>
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<tr>
<th>Stock Code</th>
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<tbody>
<tr>
<td>35-00-100</td>
<td>White</td>
</tr>
<tr>
<td>35-00-100G</td>
<td>White Gloss</td>
</tr>
<tr>
<td>35-00-105</td>
<td>Bronze</td>
</tr>
<tr>
<td>35-00-105G</td>
<td>Bronze Gloss</td>
</tr>
<tr>
<td>35-00-110</td>
<td>Ivory Gloss</td>
</tr>
<tr>
<td>35-00-115 (TX)</td>
<td>Beige</td>
</tr>
<tr>
<td>35-00-115G</td>
<td>Beige Gloss</td>
</tr>
<tr>
<td>35-00-120</td>
<td>Black</td>
</tr>
<tr>
<td>35-00-120G</td>
<td>Black Gloss</td>
</tr>
</tbody>
</table>
40MM NON END RETENTION ROLL SHUTTER SYSTEM - Code Approvals

40mm: FBC (non-HVHZ), FBC (HVHZ), IBC/IRC

40 MM SLAT x 20’
(vented)
40-COLOR-275T
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
10 Pcs

40mm SLAT LOCK
40-63-796 Left & Right
Black

BOTTOM SLAT x 22’
41-WH-001 White
41-MB-001 (TX) White
10 Pcs

40 MM TRACK x 20’
41-COLOR-002
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
6 Pcs

MISCELLANEOUS ROLL SHUTTER EXTRUSIONS

BERTHA™ GLADIATOR SCREEN
3-1/4” Side Rail x 24’ 5”
41-WH-705 White
41-IV-705 Ivory
41-MB-705 Bronze
41-BG-705 Beige

BERTHA™ GLADIATOR SCREEN
Rail Cap x 24’
41-WH-703 White
41-IV-703 Ivory
41-MB-703 Bronze
41-BG-703 Beige

DADE 55 MM TRACK x 24’6”
41-COLOR-300
Available in White (WH), Ivory (IV), Bronze (MB) and Beige (BG)
6 Pcs
Felt: 41-HV-160

2” STORM BAR CLIP
6063-T6 Mill Finish
x 2” TB-CLIP (with holes)
x 12’ 40-63-262
Receives 2” Square Tube; Also used as support brace bracket

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Eastern Metal Supply
Quality Shapes In Aluminum
## Eastern Metal Supply - Quality Shapes in Aluminum

### ROLL SHUTTER SYSTEMS - Miscellaneous Reel Tubes

<table>
<thead>
<tr>
<th>Description</th>
<th>Model</th>
<th>ID</th>
<th>Notes</th>
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<tbody>
<tr>
<td>Storm Bars x 22' 6&quot; (Dove Tail Tubes)</td>
<td>40-WH-902</td>
<td>White</td>
<td>(8 Pcs.)</td>
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<tr>
<td>58 mm Octagonal Tube x 24'</td>
<td>40-63-250</td>
<td>Mill Finish</td>
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<tr>
<td>60mm Reel Tube x 17'</td>
<td>51-63-338</td>
<td>2.365 ID</td>
<td>Mill Finish</td>
</tr>
<tr>
<td>70mm Heavy Reel Tube x 24' 1&quot;</td>
<td>52-63-7521</td>
<td>Wall: 0.168</td>
<td></td>
</tr>
<tr>
<td>70mm HD Reel Tube x 21' 1&quot;</td>
<td>41-63-349</td>
<td>Wall: 0.215</td>
<td></td>
</tr>
<tr>
<td>94mm Reel Tube</td>
<td>41-63-350</td>
<td>24'</td>
<td>41-63-11905 x 31'</td>
</tr>
<tr>
<td>100mm Reel Tube x 20'</td>
<td>18-61-255</td>
<td>3.548 ID (3-1/2&quot;)</td>
<td>SCH 40</td>
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<tr>
<td>In-Line Galvanized Steel Reel Tube</td>
<td>41-GLV-240</td>
<td>x 20'</td>
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<tr>
<td></td>
<td>41-GLV-288</td>
<td>x 24'</td>
<td></td>
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<tr>
<td>BERTHA™ Reel Sleeve</td>
<td>41-63-352</td>
<td>Mill Finish x 20'</td>
<td></td>
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<tr>
<td>2&quot; Donut SPECIAL ORDER</td>
<td>41-63-3522</td>
<td>Mill Finish</td>
<td></td>
</tr>
<tr>
<td>BERTHA™ Reel Tube Sleeve</td>
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<td>Mill Finish x 20'</td>
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<tr>
<td>2&quot; Donut SPECIAL ORDER</td>
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<tr>
<td>94mm Reel Tube</td>
<td>41-63-350</td>
<td>24'</td>
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<tr>
<td>100mm Reel Tube</td>
<td>18-61-255</td>
<td>3.548 ID (3-1/2&quot;)</td>
<td>SCH 40</td>
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<tr>
<td>58 mm Octagonal Tube x 24'</td>
<td>40-63-250</td>
<td>Mill Finish</td>
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<tr>
<td>60mm Reel Tube x 17'</td>
<td>51-63-338</td>
<td>2.365 ID</td>
<td>Mill Finish</td>
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<tr>
<td>70mm Heavy Reel Tube x 24' 1&quot;</td>
<td>52-63-7521</td>
<td>Wall: 0.168</td>
<td></td>
</tr>
<tr>
<td>70mm HD Reel Tube x 21' 1&quot;</td>
<td>41-63-349</td>
<td>Wall: 0.215</td>
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<tr>
<td>94mm Reel Tube</td>
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<td>41-63-11905 x 31'</td>
</tr>
<tr>
<td>100mm Reel Tube x 20'</td>
<td>18-61-255</td>
<td>3.548 ID (3-1/2&quot;)</td>
<td>SCH 40</td>
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<tr>
<td>In-Line Galvanized Steel Reel Tube</td>
<td>41-GLV-240</td>
<td>x 20'</td>
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<tr>
<td></td>
<td>41-GLV-288</td>
<td>x 24'</td>
<td></td>
</tr>
<tr>
<td>BERTHA™ Reel Sleeve</td>
<td>41-63-352</td>
<td>Mill Finish x 20'</td>
<td></td>
</tr>
<tr>
<td>2&quot; Donut SPECIAL ORDER</td>
<td>41-63-3522</td>
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<td></td>
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<tr>
<td>BERTHA™ Reel Tube Sleeve</td>
<td>41-63-353</td>
<td>Mill Finish x 20'</td>
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<tr>
<td>2&quot; Donut SPECIAL ORDER</td>
<td>41-63-354</td>
<td>Mill Finish x 27'</td>
<td></td>
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<tr>
<td>94mm Reel Tube</td>
<td>41-63-350</td>
<td>24'</td>
<td>41-63-11905 x 31'</td>
</tr>
</tbody>
</table>

**Contact Information:***

- **EMS FL**: 1-800-432-2204, (561) 588-4780 - fax
- **EMS NC**: 1-800-343-8154, (704) 391-2267 - fax
- **EMS TX**: 1-800-996-6061, (281) 656-2297 - fax
- **EMS MO**: 1-888-822-6061, (314) 344-3349 - fax

**Website**: [www.easternmetal.com](http://www.easternmetal.com)
**E-mail**: info@easternmetal.com
**Version**: 06/12/19

**Additional Locations**: West Palm Beach & Lakeland, FL; Newark, DE; Akron, OH; Van Buren, AR; Atlanta, GA and Dallas, TX
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**
- 2002146: 11:1 7mm Hex/16mm square
  - Use with Bracket 2003639

**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 (34KG) 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

---

**Hurricane 27**

---

**Eastern Metal Supply**

Quality Shapes In Aluminum

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**website**: www.easternmetal.com  
**e-mail**: info@easternmetal.com  
**version**: 02/01/19
### ROLL SHUTTER COMPONENTS: Universals & Handcranks

**90° Universal 2 hole (exterior mount)**
- Includes screw for bullet (bullet sold separately)
- **Hex Drive** 6A323S584E7
- **Square Drive** 2004121

**90° Universal 2 hole (exterior mount)**
- For 7” End Caps or Less
- Comes with Bullet
- **Hex Drive** 2001783

**90° Universal 4 hole (interior mount)**
- Includes screw for bullet (bullet sold separately)
- **Hex Drive** 6A323T584E7
- **Square Drive** 2004125

**Bullet for Universal (pivot)** 6A32341FX
- Screw comes with Universal; Mates with Bell for removable crank handle

**Universal Hex Coupler** 9685120
- for Extension Shaft
- Mates with Hex Ext. Shaft for Universals

**Universal Hex Extension Shaft x 13”** 9420659
- Mates with Hex Coupler for Universals

**Handle Lock Wall Clip (plastic)** 2005402

**CRANK EXTENSION KIT**
- **CRANK-KIT**
  - 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

**SS Handle for Extension**
- Mates with 2004173; Needs pin 2003341 2004166

**Bell for Extension** 2001776
- Needs pin 2005400; Mates with Bullet for Crank Rod/Handle

**Roll Pins**
- Mates with Bell and Crank Handle Extension 2005400
- for Bell

**Roll Pins**
- Mates with SS Handle 2004166

**5’ Crank Handle w/Bell (Nickel)** 6A322E78215

**5’ Assembled Awning Handle & Hook** 2001892

**T8-9 OVERRIDE EYE & SHAFT** 9340020
- Not for use with 2008302 or 2008303

---

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

**website:** www.easternmetal.com  
**e-mail:** info@easternmetal.com  
**version:** 02/01/19
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<thead>
<tr>
<th>Product Description</th>
<th>Code</th>
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<td>Idle Side Adjustable Pivot (metal)</td>
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<td>6C66645AL</td>
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<td>Bearing End Cap (bearing not included)</td>
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<td>60mm Nylon Gear Insert</td>
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<td>6D66605AL</td>
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<td>6D66605</td>
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<td>6D66635AL</td>
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<tr>
<td>SIMU Idler Cap (use plate 2003638)</td>
<td>2003592</td>
<td>60mm</td>
</tr>
<tr>
<td>2003560</td>
<td>70mm</td>
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<tr>
<td>Octagonal Adapter Ring for Round Tube</td>
<td>2006280</td>
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<td>2003560</td>
<td>70mm</td>
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**ROLL SHUTTER COMPONENTS: Bearings and Plates; Plugs, Stops, Entry Guides, Slat Hangers, Slat Locks**

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Part Number</th>
<th>Notes</th>
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<tbody>
<tr>
<td>Bearing Plate</td>
<td>(100mm x 100mm)</td>
<td>6A39431</td>
<td>includes mounting screws</td>
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<td>Heavy Duty Bearing Plate</td>
<td>(100mm x 100mm)</td>
<td>7006107</td>
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<td>Plate for Gear</td>
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<td>- no pin (100mm x 100mm)</td>
<td>6A39441</td>
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<tr>
<td>Simu 1424 Gear Plate</td>
<td>(for # 2002146)</td>
<td>2003639</td>
<td>includes mounting screws</td>
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<tr>
<td>SIMU Spring Support Plate</td>
<td>(100mm x 100mm)</td>
<td>2003638</td>
<td>w/retainer clip includes mounting screws</td>
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<td>Spring Support Plate</td>
<td>(100mm x 100mm)</td>
<td>6A39438</td>
<td>w/retainer screw &amp; nut includes mounting screws</td>
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<tr>
<td>Screws for ALL Plates</td>
<td></td>
<td>2005563</td>
<td>(Cheese head/4 per plate)</td>
</tr>
<tr>
<td>Hood Roller</td>
<td>40 x 95 x 30mm</td>
<td>2001826</td>
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<td>10 mm - 3/8&quot; Track Plugs</td>
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<td>701277</td>
<td>White</td>
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<tr>
<td>5/8&quot; Track Plugs</td>
<td>Fits 5/8&quot; drill hole</td>
<td>58NPWH</td>
<td>White (shown)</td>
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<td></td>
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<td>58NPIV</td>
<td>Ivory</td>
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<td>Conical Stop</td>
<td>(screw included)</td>
<td>6D3332320</td>
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<td>2006136</td>
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<td></td>
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<td>2003493</td>
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<tr>
<td>Entry Guide</td>
<td>NON END RETENTION</td>
<td>6D8642020</td>
<td>White (by the pair - for 40mm)</td>
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<td></td>
<td>2005490</td>
<td>White (by the pair)</td>
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<tr>
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<td>Modify for 58mm ER</td>
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<tr>
<td>40mm Slat Lock Guide</td>
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<td>40-63-796</td>
<td>Sold as a Set</td>
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<tr>
<td>40mm Slat Hanger</td>
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<td>6A33713FX</td>
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<tr>
<td>58mm End Retention Slat Lock Guide</td>
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<td>40-63-799</td>
<td>Sold as a Set</td>
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<td>NON RETENTION</td>
<td>40-63-798</td>
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<tr>
<td>Slat Hanger</td>
<td></td>
<td>6A33619FX</td>
<td>for 55mm, 58mm, 60mm</td>
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</tbody>
</table>

**Hurricane 30**

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

**EMS NC**
1-800-343-8154
(704) 391-2267 - fax

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

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

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

**website:** www.easternmetal.com  **e-mail:** info@easternmetal.com  **version:** 10/09/19
## ROLL SHUTTER COMPONENTS: EMS Heavy Duty End Caps

### 7” SMALL LEG EMS Brand HD 45° End Caps

*(sold by the pair)*

<table>
<thead>
<tr>
<th>Year</th>
<th>Color</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>Silver</td>
<td>2007MB</td>
<td>Bronze</td>
</tr>
<tr>
<td>2007WH</td>
<td>White</td>
<td>2007BG</td>
<td>Beige</td>
</tr>
<tr>
<td>2007IV</td>
<td>Ivory</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Associated Hoods (see Hurricane 33):**
- 120-COLOR-7FL45HD (Front Lip)
- 120-COLOR-7FN45HD (Front No Lip)
- 120-COLOR-7BHD (Back)

### 8” SMALL LEG EMS Brand HD 45° End Caps

*(sold by the pair)*

<table>
<thead>
<tr>
<th>Year</th>
<th>Color</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>Silver</td>
<td>2008MB</td>
<td>Bronze</td>
</tr>
<tr>
<td>2008WH</td>
<td>White</td>
<td>2008BG</td>
<td>Beige</td>
</tr>
<tr>
<td>2008IV</td>
<td>Ivory</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Associated Hoods (see Hurricane 33):**
- 120-COLOR-8FL45HD (Front Lip)
- 120-COLOR-8FN45HD (Front No Lip)
- 120-COLOR-8BHD (Back)

### 8” LARGE LEG EMS Brand HD 45° End Caps

*(sold by the pair)*

- **Hood Cut Size Deduction:** 0.531” or 17/32”
- **40mm ER 8” Large Leg Slat Deduction:** 5.8125”
- **55mm ER 8” Large Leg Slat Deduction:** 5.5625”
- **58mm ER 8” Large Leg Slat Deduction:** 5.5625”

<table>
<thead>
<tr>
<th>Year</th>
<th>Color</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>20081</td>
<td>Silver</td>
<td>20081MB</td>
<td>Bronze</td>
</tr>
<tr>
<td>20081WH</td>
<td>White</td>
<td>20081BG</td>
<td>Beige</td>
</tr>
<tr>
<td>20081IV</td>
<td>Ivory</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Associated Hoods (see Hurricane 33):**
- 120-COLOR-8FL45LLHD (Front Lip)
- 120-COLOR-8FN45LLHD (Front No Lip)
- 120-COLOR-8BHD (Back)

### 10” LARGE LEG EMS Brand HD 45° End Caps

*(sold by the pair)*

- **Hood Cut Size Deduction:** 0.531” or 17/32”
- **40mm ER 10” Large Leg Slat Deduction:** 5.8125”
- **55mm ER 10” Large Leg Slat Deduction:** 5.5625”
- **58mm ER 10” Large Leg Slat Deduction:** 5.5625”

<table>
<thead>
<tr>
<th>Year</th>
<th>Color</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>20091</td>
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<td>20091WH</td>
<td>White</td>
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<td>Beige</td>
</tr>
<tr>
<td>20091IV</td>
<td>Ivory</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Associated Hoods (see Hurricane 33):**
- 120-COLOR-10FL45LLHD (Front Lip)
- 120-COLOR-10FN45LLHD (Front No Lip)
- 120-COLOR-10BHD (Back)

---

**Hurricane 31**

### Eastern Metal Supply

**Quality Shapes In Aluminum**

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

**Website:** [www.easternmetal.com](http://www.easternmetal.com)  
**E-mail:** info@easternmetal.com  
**Version:** 01/06/20
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 2002721 Mill Finish
8" End Cap 2002731 Mill Finish
10" End Cap 2002741 Mill Finish

ROLL SHUTTER COMPONENTS: Safety Plates

SAFETY PLATES (sold by the pair)

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

Eastern Metal Supply
Quality Shapes In Aluminum
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

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Style</th>
</tr>
</thead>
<tbody>
<tr>
<td>120-COLOR-5FL45</td>
<td>5” HOOD</td>
<td>45° Front with Lip</td>
</tr>
<tr>
<td>120-COLOR-5FN45</td>
<td>5” HOOD</td>
<td>45° Front (No Lip)</td>
</tr>
<tr>
<td>120-COLOR-5B</td>
<td>5” HOOD</td>
<td>Back</td>
</tr>
<tr>
<td>120-COLOR-5.5FL45</td>
<td>5.5” HOOD</td>
<td>45° Front with Lip</td>
</tr>
<tr>
<td>120-COLOR-5.5FN45</td>
<td>5.5” HOOD</td>
<td>45° Front (No Lip)</td>
</tr>
<tr>
<td>120-COLOR-5.5B</td>
<td>5.5” HOOD</td>
<td>Back</td>
</tr>
<tr>
<td>120-COLOR-6FL45</td>
<td>6” HOOD</td>
<td>45° Front with Lip</td>
</tr>
<tr>
<td>120-COLOR-6FN45</td>
<td>6” HOOD</td>
<td>45° Front (No Lip)</td>
</tr>
<tr>
<td>120-COLOR-6B</td>
<td>6” HOOD</td>
<td>Back</td>
</tr>
<tr>
<td>120-COLOR-6.5FL45</td>
<td>6.5” HOOD</td>
<td>45° Front with Lip</td>
</tr>
<tr>
<td>120-COLOR-6.5FN45</td>
<td>6.5” HOOD</td>
<td>45° Front (No Lip)</td>
</tr>
<tr>
<td>120-COLOR-6.5B</td>
<td>6.5” HOOD</td>
<td>Back</td>
</tr>
<tr>
<td>120-COLOR-7FL45</td>
<td>7” HOOD</td>
<td>45° Front with Lip</td>
</tr>
<tr>
<td>120-COLOR-7FN45</td>
<td>7” HOOD</td>
<td>45° Front (No Lip)</td>
</tr>
<tr>
<td>120-COLOR-7B</td>
<td>7” HOOD</td>
<td>Back</td>
</tr>
<tr>
<td>120-COLOR-8FL45</td>
<td>8” HOOD</td>
<td>45° Front with Lip</td>
</tr>
<tr>
<td>120-COLOR-8FN45</td>
<td>8” HOOD</td>
<td>45° Front (No Lip)</td>
</tr>
<tr>
<td>120-COLOR-8B</td>
<td>8” HOOD</td>
<td>Back</td>
</tr>
</tbody>
</table>

45° HOODS – LARGE LEG End Cap
Colors Available: White: WH • Bronze: MB • Ivory: IV • Beige: BG

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Style</th>
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</thead>
<tbody>
<tr>
<td>120-COLOR-8FL45LL</td>
<td>8” HOOD</td>
<td>45° Front with Lip</td>
</tr>
<tr>
<td>120-COLOR-8FN45LL</td>
<td>8” HOOD</td>
<td>45° Front (No Lip)</td>
</tr>
<tr>
<td>120-COLOR-8B</td>
<td>8” HOOD</td>
<td>Back</td>
</tr>
<tr>
<td>120-COLOR-10FL45</td>
<td>10” HOOD</td>
<td>45° Front with Lip</td>
</tr>
<tr>
<td>120-COLOR-10FN45</td>
<td>10” HOOD</td>
<td>45° Front (No Lip)</td>
</tr>
<tr>
<td>120-COLOR-10B</td>
<td>10” HOOD</td>
<td>Back</td>
</tr>
<tr>
<td>120-COLOR-12FL45</td>
<td>12” HOOD</td>
<td>45° Front with Lip</td>
</tr>
<tr>
<td>120-COLOR-12FN45</td>
<td>12” HOOD</td>
<td>45° Front (No Lip)</td>
</tr>
<tr>
<td>120-COLOR-12B</td>
<td>12” HOOD</td>
<td>Back</td>
</tr>
</tbody>
</table>

7” 45° HOOD WITH LIP

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

90° HOODS – SMALL LEG End Cap
Colors Available: White: WH • Bronze: MB • Ivory: IV • Beige: BG

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Style</th>
</tr>
</thead>
<tbody>
<tr>
<td>120-COLOR-7FLSQ9</td>
<td>7” HOOD</td>
<td>90° Front with Lip</td>
</tr>
<tr>
<td>120-COLOR-7FNSQ9</td>
<td>7” HOOD</td>
<td>90° Front (No Lip)</td>
</tr>
<tr>
<td>120-COLOR-7B</td>
<td>7” HOOD</td>
<td>Back</td>
</tr>
<tr>
<td>120-COLOR-8FLSQ</td>
<td>8” HOOD</td>
<td>90° Front with Lip</td>
</tr>
<tr>
<td>120-COLOR-8FNSQ</td>
<td>8” HOOD</td>
<td>90° Front (No Lip)</td>
</tr>
<tr>
<td>120-COLOR-8B</td>
<td>8” HOOD</td>
<td>Back</td>
</tr>
<tr>
<td>120-COLOR-10FLSQ</td>
<td>10” HOOD</td>
<td>90° Front with Lip</td>
</tr>
<tr>
<td>120-COLOR-10FNSQ</td>
<td>10” HOOD</td>
<td>90° Front (No Lip)</td>
</tr>
<tr>
<td>120-COLOR-10B</td>
<td>10” HOOD</td>
<td>Back</td>
</tr>
</tbody>
</table>

90° HOODS – SMALL LEG End Cap

45° Front with Lip

45° Front with Lip

End Cap (small leg)

Lip

End Cap (large leg)

Back

Lip

End Cap (small leg)

Back

Without Lip
EMS Brand Motor Specification Chart  - NOT compatible with SIMU motor products

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

** 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)
- 580K (DM92M) 300Nm; 4 Wire (NOT UL LISTED)
Includes (Also Sold Separately):
- 100MM Crown
- 100mm Drive
- No Bracket
- Direct Mount
- Override Crank Eye

- Use DC136 to make Remote

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

website: www.easternmetal.com  e-mail: info@easternmetal.com  version: 02/01/19
ROLL SHUTTER MOTORS: EMS Brand Remote Motor Kits

EMS Brand Remote Motor Kit (TYPE 5)
345K (DM45R) 30Nm; 3 Wire
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)
346K (DM45R) 30Nm; 3 Wire
446K (DM45R) 50Nm; 3 Wire equiv. to 446SK

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

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
Handheld Emitter DC104 One Channel
Handheld Emitter DC105 Five Channel
Handheld Emitter DC512 Fifteen Channel
Keychain Emitter DC61 One Channel
Wallmounted Emitter DC46 One Channel
Wallmounted Emitter DC49 Two Channel
Twenty Channel Wireless Receiver DC74 (Standard Motors)
DC136 (for 580K)

DD1538HK Solar Panel Kit - NEW!

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EMS MO
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(314) 344-3349 - fax

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

website: www.easternmetal.com e-mail: info@easternmetal.com version: 04/27/20
## SIMU Motor Specification Chart - NOT compatible with EMS motor products

<table>
<thead>
<tr>
<th>Model</th>
<th>Rated Torque</th>
<th>Output Speed</th>
<th>Motor Length</th>
<th>Rated Voltage</th>
<th>Freq.</th>
<th>Rated Power</th>
<th>Rated Current</th>
<th>Continuous Run Time</th>
<th>Protection Degree</th>
<th>Max Limit Turns</th>
<th>Theoretical Lifting Capacity*</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Standard Motors</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>449SK (DM45S)</td>
<td>50 Nm</td>
<td>12 rpm</td>
<td>23.625&quot;</td>
<td>120V</td>
<td>60Hz</td>
<td>210W</td>
<td>2.1A</td>
<td>5min</td>
<td>IP44</td>
<td>28</td>
<td>224lbs-246lbs</td>
</tr>
<tr>
<td>510SK (DM59S)</td>
<td>100 Nm</td>
<td>14 rpm</td>
<td>27.125&quot;</td>
<td>120V</td>
<td>60Hz</td>
<td>430W</td>
<td>3.8A</td>
<td>4min</td>
<td>IP44</td>
<td>22</td>
<td>308lbs-448lbs</td>
</tr>
<tr>
<td><strong>Standard w/Override Motor</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>423SK</td>
<td>50 Nm</td>
<td>12 rpm</td>
<td>25&quot;</td>
<td>120V</td>
<td>60Hz</td>
<td>210W</td>
<td>2.1A</td>
<td>5min</td>
<td>IP44</td>
<td>28</td>
<td>224lbs-246lbs</td>
</tr>
<tr>
<td>529SK</td>
<td>100 Nm</td>
<td>14 rpm</td>
<td>26.25&quot;</td>
<td>120V</td>
<td>60Hz</td>
<td>430W</td>
<td>3.8A</td>
<td>4min</td>
<td>IP44</td>
<td>28</td>
<td>308lbs-448lbs</td>
</tr>
<tr>
<td><strong>Remote Motor</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>445SK (DM59M)</td>
<td>50 Nm</td>
<td>12 rpm</td>
<td>26.5&quot;</td>
<td>120V</td>
<td>60Hz</td>
<td>250W</td>
<td>2.1A</td>
<td>5min</td>
<td>IP44</td>
<td>28</td>
<td>224lbs-246lbs</td>
</tr>
<tr>
<td>527SK (DM59M)</td>
<td>100 Nm</td>
<td>14 rpm</td>
<td>28.75&quot;</td>
<td>120V</td>
<td>60Hz</td>
<td>430W</td>
<td>3.8A</td>
<td>4min</td>
<td>IP44</td>
<td>28</td>
<td>308lbs-448lbs</td>
</tr>
<tr>
<td><strong>Remote w/Override Motor</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>446SK (DM59M)</td>
<td>50 Nm</td>
<td>12 rpm</td>
<td>30.25&quot;</td>
<td>120V</td>
<td>60Hz</td>
<td>250W</td>
<td>2.1A</td>
<td>5min</td>
<td>IP44</td>
<td>28</td>
<td>224lbs-246lbs</td>
</tr>
<tr>
<td>528SK (DM59M)</td>
<td>100 Nm</td>
<td>14 rpm</td>
<td>33.75&quot;</td>
<td>120V</td>
<td>60Hz</td>
<td>430W</td>
<td>3.8A</td>
<td>5min</td>
<td>IP44</td>
<td>28</td>
<td>308lbs-448lbs</td>
</tr>
</tbody>
</table>

**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

---

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**Hurricane 36**

<table>
<thead>
<tr>
<th>EMS FL</th>
<th>1-800-432-2204</th>
<th>(561) 588-4780 - fax</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMS NC</td>
<td>1-800-343-8154</td>
<td>(704) 391-2267 - fax</td>
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<tr>
<td>EMS TX</td>
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<td>EMS MO</td>
<td>1-888-822-6061</td>
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</table>

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

**website:** www.easternmetal.com  **e-mail:** info@easternmetal.com  **version:** 02/01/19
**SIMU ROLL SHUTTER MOTORS: Remote Motor Kits**

SIMU Remote Motor Kit (TYPE 5)  
445SK (DM45R) 50Nm; 3 Wire equiv. to 445K  
Includes (Also Sold Separately): 60 & 70MM Crowns  
60 & 70mm Drives • Bracket; Single Channel Emitter

SIMU Remote Motor Kit (TYPE 6)  
528SK (DM59R) 100Nm; 3 Wire equiv. to 528K  
Includes (Also Sold Separately): 70MM Crown • 70mm Drive • Bracket Alt. Bracket; Single 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 Separately): 60 & 70MM Crowns  
60 & 70mm Drives • Bracket; Single Channel Emitter

SIMU Remote Override Motor Kit (TYPE 6)  
527SK (DM59R) 100Nm; 3 Wire equiv. to 527K  
Includes (Also Sold Separately): 70MM Crown • 70mm Drive • Bracket  
Single Channel Emitter

**SIMU ROLL SHUTTER MOTORS: Hz Radio Systems Accessories**

- **Device for Home Automation Somfy myLink App**  
  1811264 White

- **Hz TRANSMITTER**  
  2006138 White  
  1 Channel Handheld

- **Hz TRANSMITTER**  
  2006143 White  
  5 Channel Handheld

- **Hz TRANSMITTER**  
  2007350 White  
  16 Channel Handheld

- **Hz TRANSMITTER**  
  1810603 White  
  1 Channel Recessed Designer

- **Hz TRANSMITTER**  
  1810604 Ivory  
  5 Channel Recessed Designer

- **Hz TRANSMITTER**  
  1810813 White  
  1 Channel Recessed Designer

- **Hz TRANSMITTER**  
  1810606 Ivory  
  1 Channel Recessed Designer

- **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**  
  2008191  
  Micro Motor 120V AC

- **GROUP RELAY SWITCH**  
  2282074 (Non Stock)  
  2 Motors on 1 Master Switch

- **GROUP RELAY SWITCH**  
  2282075 (Non Stock)  
  3 Motors on 1 Master Switch

- **EXTERNAL HZ RECEIVER**  
  2282070  
  For IGC, Remote for Duals & Sync Kit

**ROLL SHUTTER MOTORS: Miscellaneous Electronics**

- **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

- **GROUP RELAY SWITCH**  
  2282074 (Non Stock)  
  2 Motors on 1 Master Switch

- **GROUP RELAY SWITCH**  
  2282075 (Non Stock)  
  3 Motors on 1 Master Switch

- **EXTERNAL HZ RECEIVER**  
  2282070  
  For IGC, Remote for Duals & Sync Kit

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**Website:** www.easternmetal.com  
**Email:** info@easternmetal.com  
**Version:** 02/29/19
### SIMU Motor Specifications - Single Motors (Non-Kits)

<table>
<thead>
<tr>
<th>Model</th>
<th>Rated Torque</th>
<th>Output Speed</th>
<th>Tube Diameter</th>
<th>Rated Voltage</th>
<th>Freq.</th>
<th>Rated Power</th>
<th>Rated Current</th>
<th>Continuous Run Time</th>
<th>Protection Degree</th>
<th>Max Limit Turns</th>
<th>Theoretical Lifting Capacity**</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Standard Motors (TYPE 5)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>535 - 2000648</td>
<td>35 Nm</td>
<td>18 rpm</td>
<td>47mm</td>
<td>120V</td>
<td>60 Hz</td>
<td>210W</td>
<td>2.1A</td>
<td>5 min</td>
<td>IP44</td>
<td>28</td>
<td>143 lbs - 172 lbs</td>
</tr>
<tr>
<td>540 - 2000652</td>
<td>40 Nm</td>
<td>12 rpm</td>
<td>47mm</td>
<td>120V</td>
<td>60 Hz</td>
<td>210W</td>
<td>1.8A</td>
<td>5 min</td>
<td>IP44</td>
<td>28</td>
<td>179 lbs - 195 lbs</td>
</tr>
</tbody>
</table>

| **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             |

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

| SIMU STANDARD MOTORS (TYPE 5) |              |              |               |               |       |             |               |                    |                   |                 |                               |
| **SPECIAL ORDER**            |              |              |               |               |       |             |               |                    |                   |                 |                               |
| 535 - 2000648               | 35 Nm        |              |               |               |       |             |               |                    |                   |                 |                               |
| 540 - 2000652               | 40 Nm        |              |               |               |       |             |               |                    |                   |                 |                               |

| SIMU OVERRIDE MOTORS (TYPE 5) |              |              |               |               |       |             |               |                    |                   |                 |                               |
| **SPECIAL ORDER**            |              |              |               |               |       |             |               |                    |                   |                 |                               |
| 530 - 2000774               | 30 Nm        |              |               |               |       |             |               |                    |                   |                 |                               |
| 535 - 2000771               | 35 Nm        |              |               |               |       |             |               |                    |                   |                 |                               |
| 540 - 2000775               | 40 Nm        |              |               |               |       |             |               |                    |                   |                 |                               |

| SIMU STANDARD MOTORS (TYPE 6) |              |              |               |               |       |             |               |                    |                   |                 |                               |
| **SPECIAL ORDER**            |              |              |               |               |       |             |               |                    |                   |                 |                               |
| 660 - 2000985               | 60 Nm        |              |               |               |       |             |               |                    |                   |                 |                               |
| 680 - 2000986               | 80 Nm        |              |               |               |       |             |               |                    |                   |                 |                               |

### MOTOR ADAPTORS (crown & drive)

| 9012814  | TYPE 5 |              |              |               |       |             |               |                    |                   |                 |                               |
| 9012812  | TYPE 5 |              |              |               |       |             |               |                    |                   |                 |                               |
| 9012815  | TYPE 6 |              |              |               |       |             |               |                    |                   |                 |                               |

| MOTOR ADAPTORS (crown & drive) |              |              |               |               |       |             |               |                    |                   |                 |                               |

| MOTOR BRACKETS |              |              |               |               |       |             |               |                    |                   |                 |                               |
| 9520049 | TYPE 5 | Operator Bracket | 80mm x 80mm square | | | | | | | | |
| 9520187 | TYPE 5 | Operator Bracket | 100mm x 100mm square | | | | | | | | |
| 9530018 | TYPE 6 | Operator Bracket | 100mm x 100mm square | | | | | | | | |

| MOTOR BRACKETS |              |              |               |               |       |             |               |                    |                   |                 |                               |

| MOTOR BRACKETS |              |              |               |               |       |             |               |                    |                   |                 |                               |

| MOTOR BRACKETS |              |              |               |               |       |             |               |                    |                   |                 |                               |

---

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

**Website:** www.easternmetal.com  **E-mail:** info@easternmetal.com  **Version:** 01/31/19
**SIMU Motor Specifications - Single Motors (Non-Kits)**

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

**Lifting Capacity decreases as the height increases.**

---

**ROLL SHUTTER MOTORS by SIMU: Standard Motors - Type 8**

**SIMU OVERRIDE MOTORS (TYPE 8)**

**SPECIAL ORDER**

**T8 - 2008302**

200 Nm

To make Remote Use 1810602

9001297 Drive

9018069 Bracket

**To make Remote Use**

Smart Motor Control 2005720 and IGC Control 1810481

**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

---

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**Website:** www.easternmetal.com

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**Version:** 02/01/19
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<th>Tube Diameter</th>
<th>Rated Voltage</th>
<th>Freq.</th>
<th>Rated Power</th>
<th>Rated Current</th>
<th>Continuous Run Time</th>
<th>Protection Degree</th>
<th>Max Limit Turns</th>
<th>Theoretical Lifting Capacity**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote Motor</td>
<td>520 - 2006353</td>
<td>35 Nm</td>
<td>12 rpm</td>
<td>47mm</td>
<td>120V</td>
<td>60 Hz</td>
<td>130W</td>
<td>1.1A</td>
<td>5 min</td>
<td>IP44</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>530 - 2005136</td>
<td>30 Nm</td>
<td>12 rpm</td>
<td>47mm</td>
<td>120V</td>
<td>60 Hz</td>
<td>170W</td>
<td>1.5A</td>
<td>5 min</td>
<td>IP44</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>535 - 2005135</td>
<td>35 Nm</td>
<td>18 rpm</td>
<td>47mm</td>
<td>120V</td>
<td>60 Hz</td>
<td>250W</td>
<td>2.1A</td>
<td>5 min</td>
<td>IP44</td>
<td>28</td>
</tr>
</tbody>
</table>

| Remote w/Override Motor | 530 - 2004673 | 30 Nm (No Transmitter) | 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**

<table>
<thead>
<tr>
<th>Model</th>
<th>Rated Torque</th>
<th>Output Speed</th>
<th>Tube Diameter</th>
<th>Rated Voltage</th>
<th>Freq.</th>
<th>Rated Power</th>
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<th>Protection Degree</th>
<th>Max Limit Turns</th>
<th>Theoretical Lifting Capacity**</th>
</tr>
</thead>
<tbody>
<tr>
<td>520 - 2006353</td>
<td>20 Nm</td>
<td>12 rpm</td>
<td>47mm</td>
<td>120V</td>
<td>60 Hz</td>
<td>130W</td>
<td>1.1A</td>
<td>5 min</td>
<td>IP44</td>
<td>28</td>
<td>82 lbs - 100 lbs</td>
</tr>
<tr>
<td>530 - 2005136</td>
<td>30 Nm (No Transmitter)</td>
<td>12 rpm</td>
<td>47mm</td>
<td>120V</td>
<td>60 Hz</td>
<td>170W</td>
<td>1.5A</td>
<td>5 min</td>
<td>IP44</td>
<td>28</td>
<td>123 lbs - 148 lbs</td>
</tr>
<tr>
<td>535 - 2005135</td>
<td>35 Nm</td>
<td>18 rpm</td>
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<td>120V</td>
<td>60 Hz</td>
<td>250W</td>
<td>2.1A</td>
<td>5 min</td>
<td>IP44</td>
<td>28</td>
<td>143 lbs - 172 lbs</td>
</tr>
</tbody>
</table>

Crows, Drives & Brackets Sold Separately

### REMOTE Hz OVERRIDE MOTORS (TYPE 5)

**SPECIAL ORDER**

<table>
<thead>
<tr>
<th>Model</th>
<th>Rated Torque</th>
<th>Output Speed</th>
<th>Tube Diameter</th>
<th>Rated Voltage</th>
<th>Freq.</th>
<th>Rated Power</th>
<th>Rated Current</th>
<th>Continuous Run Time</th>
<th>Protection Degree</th>
<th>Max Limit Turns</th>
<th>Theoretical Lifting Capacity**</th>
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<tr>
<td>530 - 2004673</td>
<td>30 Nm (No Transmitter)</td>
<td>12 rpm</td>
<td>47mm</td>
<td>120V</td>
<td>60 Hz</td>
<td>170W</td>
<td>1.5A</td>
<td>5 min</td>
<td>IP44</td>
<td>28</td>
<td>123 lbs - 148 lbs</td>
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<tr>
<td>535 - 2004674</td>
<td>35 Nm</td>
<td>18 rpm</td>
<td>47mm</td>
<td>120V</td>
<td>60 Hz</td>
<td>250W</td>
<td>2.1A</td>
<td>5 min</td>
<td>IP44</td>
<td>28</td>
<td>143 lbs - 172 lbs</td>
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</table>

Crows, Drives & Brackets Sold Separately

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

#### MOTOR ADAPTORS (crown & drive)

- **9012814 TYPE 5** 60mm Octagonal Set, Aluminum Drive Wheel
- **9012812 TYPE 5** 70mm Octagonal Set, Aluminum Drive Wheel

#### MOTOR BRACKETS

- **9520049 TYPE 5** Operator Bracket 80mm x 80mm square
- **9520187 TYPE 5** Operator Bracket 100mm x 100mm square
- **DZ315K TYPE 5** DMI Override Operator Bracket

#### MOTOR BRACKETS

- **DZ315K TYPE 5** DMI Override Operator Bracket

### ROLL SHUTTER MOTORS: Hz Radio Systems Accessories

- **Hz TRANSMITTER**
  - 2006138 White 1 Channel Handheld
  - 2006143 White 5 Channel Handheld
  - 2006137 White 1 Channel Recessed Designer
  - 2006142 White 5 Channel Recessed Designer
- **Hz RADIO EXTERNAL KEYPAD**
  - 2006029 Up to 2 Hz Motors

- **Hz 2 CHANNEL KEYCHAIN TRANSMITTER**
  - 2006526 ref. 2006329

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

- **EXTERNAL RADIO RECEIVER**
  - 1810481 For IGC, Remote for Duals & Sync Kit
  - 1822159 Standard IGC

- **EXTERNAL SYNC. CONTROL**
  - 2282074 (Non Stock) 2 Motors on 1 Master Switch
  - 2282075 (Non Stock) 3 Motors on 1 Master Switch

- **GROUP RELAY SWITCH**
  - 2282074 (Non Stock) 2 Motors on 1 Master Switch

- **EXTERNAL HZ RECEIVER**
  - 2008191 Micro Motor 120V AC

### Hurricane 40

**Eastern Metal Supply**

Quality Shapes In Aluminum

**website:** www.easternmetal.com  **e-mail:** info@easternmetal.com  **version:** 07/23/19
**HIGH VISIBILITY™ BAHAMA/COLONIAL SYSTEM**

*Code Approvals: FBC (non-HVHZ)*

**Bahama/Colonial Hollow Blade x 16’**
80-MF-013 Mill Finish
uses #14 screw

**Bahama Decorative Blade x 16’**
41-63-830 (Non-Impact)
Mill Finish

**Colonial Decorative Blade x 16’**
41-63-835 (Non-Impact)
Mill Finish

**2-1/8” Bahama/Colonial Air Foil Blade x 16’**
56-63-200 Mill Finish
uses #14 screw

**HV™ Bahama/Colonial Horizontal Frame x 20’**
41-63-819 Mill Finish

**HV™ Bahama Horizontal Frame x 20’**
41-63-826 Mill Finish

**2.33 x 2.00 HV™ Bahama/Colonial Center Mullion x 12’**
Mill Finish Punched
41-63-818P 2” Blade (shown)
41-63-818PA 2-1/8” Airfoil

**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)

**HV™ Colonial Wood Hinge 2”**
41-63-843 Mill Finish
Wall Mount 1 pc

**HV™ Colonial Concrete Hinge 2”**
41-63-844 Mill Finish
Wall Mount 1 pc

**HV™ Colonial Flat Hinge 2”**
41-63-845 Mill Finish
Wall Mount 1 pc

**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

---

**High Visibility Bahama Colonial coverage chart** - Additional heights available upon request.

<table>
<thead>
<tr>
<th>visible blades</th>
<th>finished blades</th>
<th>height*</th>
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<tbody>
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<td>36-15/16</td>
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<td>39-11/16</td>
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<td>17</td>
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<td>41-1/16</td>
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<td>42-7/16</td>
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<td>69-15/16</td>
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<tr>
<td>39</td>
<td>48</td>
<td>71-5/16</td>
</tr>
</tbody>
</table>

**Hurricane 41**

[ADD A MEMBERS ONLY]

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

**EMS NC** 1-800-343-8154
(704) 391-2267 - fax

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

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

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

**website**: www.EasternMetal.com  **e-mail**: info@EasternMetal.com  **version**: 04/06/20
HIGH VISIBILITY™ BAHAMA/COLONIAL SYSTEM

Code Approvals: FBC (non-HVHZ)

HV™ Female Bahama Hinge x 20'
41-63-836 Mill Finish

1.461

2.972

Bahama Female Flat Hinge x 20'
41-63-805 Mill Finish
6 pcs Ceiling Mount

1.850

3.374

Colonial Single Hinge x 12'
Mill Finish 6 pcs
41-63-816 Wall Mount
Mates with 41-63-824N

Colonial Double Hinge x 12'
Mill Finish 4 pcs; Wall Mount
41-63-813 Mates with 41-63-824N

2.920

4.370

2.250

4.370

Colonial Flat Hinge x 12' Wall Mount
Mill Finish 6 pcs
41-63-811 Mates with 41-63-824N

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 Beige

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

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

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

1” SLIP COLLAR WITH THUMB SCREW
Accepts 1” Serrated Tube for Telescoping Arms
7000 (FL/TX) Mill Finish x 9/16”
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 Thumb screw)
41014 (TX) 1/4-20 x 3/4 Thumb screw (mates with 52-00-139)
41021 (TX) 1/4-20 x 1 Thumb screw (mates with 52-00-139)

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

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

1 x 3 x 1/8 x 24’ Radius Corner Stock Also Available:
20-63-889 (NC/TX) Mill Finish

HV™ Female Bahama Hinge

1.461

Bahama Female Flat Hinge

2.972

Colonial Single Hinge

1.850

Colonial Flat Hinge

3.374

HV™ Bahama Hold Down Bracket 4”

4.370

Colonial Double Hinge

2.250

HV™ Bahama Hold Down Bracket 4”

4.370

Telescoping Serrated Tube x 20’

51-63-381 1.000”
32 pcs

HV™ Bahama Telescoping Arm Kit

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

<table>
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<tr>
<th>Code</th>
<th>Arm Size (Extended) Finish</th>
<th>Code</th>
<th>Arm Size (Extended) Finish</th>
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<td>7017K</td>
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<td>12” (23”) White</td>
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<td>30” (59”) White</td>
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<td>7002KBK</td>
<td>12” (23”) Black</td>
<td>7017KBK</td>
<td>30” (59”) Black</td>
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<tr>
<td>7002KMB</td>
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<td>7018K</td>
<td>36” (71”) MF</td>
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<td>18” (35”) White</td>
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<td>36” (71”) White</td>
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<tr>
<td>7003KBK</td>
<td>18” (35”) Black</td>
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<td>36” (71”) Black</td>
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<td>7003KMB</td>
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<td>7004KBK</td>
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<td>7004KMB</td>
<td>24” (47”) Bronze</td>
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Hurricane 42
HV™ BOARD & BATTEN COLONIAL SYSTEM
Code Approvals: FBC (non-HVHZ)

HV™ Board & Batten
Snap Channel x 12'
40-63-721 6063 T6 M/F

HV™ Board & Batten
Snap Cap x 12'
40-63-720 6063 T6 M/F

HV™ Board & Batten
End Cap - Flat Bar
40-63-726 3/4 x 3 x .062' (with holes) - 6063 T52 M/F

HV™ Board & Batten
3' Radius Tube x 24'
40-63-722 6063 T6 M/F

HV™ Board & Batten
4' Radius Tube x 24'
40-63-724 6063 T6 M/F

HV™ Board & Batten
5' Radius Tube x 24'
40-63-723 6063 T6 M/F

3" Decorative Slat x 24'
Board & Batten
8736-001 (TX) Mill Finish

4" Decorative Slat x 24'
Board & Batten
8736-002 (TX) Mill Finish

3.5" Tongue & Groove Slat x 24'
40-63-727 6063 T6 M/F

Tongue & Groove End Slat x 24'
40-63-728 6063 T6 M/F

2" Concrete Hinge
41-63-847 1pc 6063 T6 M/F

2" Wood Hinge
41-63-848 1pc 6063 T6 M/F

2" Flat Hinge
41-63-846 (4 Holes) 6063 T6 M/F
41-63-849 (5.99 x 2 Holes) 1pc 6063 T6 M/F

2" Bi-Fold Hinge
41-63-844 1pc 6063 T6 M/F

Board Cover Cap - Architectural Angle x 20'
11-63-220 1 x 1 x 1/16 6063 T6 M/F

End Cap - Architectural Channel x 20'
13-63-230 1-1/4 x 1-1/4 x 1/8 6063 T6 M/F

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

website: www.EasternMetal.com e-mail: info@EasternMetal.com version: 03/25/20
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

Hinged Bahama Top Frame x 20’
41-63-807  Mill Finish
4 pcs

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)

<table>
<thead>
<tr>
<th>Code</th>
<th>Arm Size (Extended)</th>
<th>Finish</th>
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<td>White</td>
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<td>7002KBK</td>
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<td>7003KMB</td>
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<td>7018KMB</td>
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<td>Bronze</td>
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### Brickhouse Low Profile Bahama/Colonial System

<table>
<thead>
<tr>
<th>Description</th>
<th>Dimensions</th>
<th>Material</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td><strong>1.46 x 2.25 Brickhouse Low Profile Side Rail x 20’</strong></td>
<td></td>
<td>Mill Finish</td>
<td>Left Side Punched</td>
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<tr>
<td>20-63-805L (TX)</td>
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<td>Right Side Punched</td>
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<tr>
<td><strong>1.46 x 2.25 Brickhouse Low Profile Center Mullion x 20’</strong></td>
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<td>Mill Finish</td>
<td>Both Sides Punched</td>
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<td>20-63-805M (TX)</td>
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<tr>
<td><strong>Brickhouse Low Profile Bahama Top Rail w/Hinge x 20’</strong></td>
<td>41-63-849 (TX)</td>
<td>Mill Finish</td>
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<tr>
<td><strong>Brickhouse Low Profile Colonial Flat Hinge x 12’</strong></td>
<td>41-63-824 (TX)</td>
<td>Mill Finish</td>
<td>For Bi-Fold Application</td>
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</tbody>
</table>
| **Colonial Flat Hinge x 12’**                   | 41-63-824N | Shutter to House Mount | Mill Finish  
Mates with 41-63-813, 41-63-824N                                    |
| **Brickhouse Low Profile Blade x 16’**           | 80-MF-013  | Mill Finish       |                                                                     |
| **Brickhouse Low Profile 4” New Orleans Style Center Mullion x 21’** | 41-63-863  | For Non-Impact Decorative Applications Only                          |
| **Colonial Double Hinge x 12’**                  | 41-63-813  | 4 pcs; Wall Mount  | Mates with 41-63-824N                                               |
| **Colonial Double Hinge x 12’**                  | 52-61-4146 | 4 pcs; Wall Mount  | Mates with 41-63-824N                                               |
| **Brickhouse Low Profile Colonial Storm Bar x 24’** | 1 x 2 x 1/8 Rect Bar x 24’ | Mill Finish       |                                                                     |
| 20-63-225                                        |            |                   |                                                                     |
| 20-WH-231                                        |            | White             |                                                                     |
| 20-MB-231                                        |            | Bronze            |                                                                     |
| 20-IV-231                                        |            | Ivory             |                                                                     |
| 20-BG-231                                        |            | Beige             |                                                                     |
| **HV™ Colonial Storm Bar Clip**                  | 41-63-840  | Mill Finish       | 1pc/Shutter Mount                                                   |
| 41-63-840WH                                      |            | White             |                                                                     |
| 41-63-840BK                                      |            | Black             |                                                                     |
| 41-63-840MB                                      |            | Bronze            |                                                                     |

### Additional Information

- **Eastern Metal Supply**
  - **Quality Shapes In Aluminum**
  - **Additional Locations:** West Palm Beach & Lakeland, FL; Newark, DE; Akron, OH, Van Buren, AR; Atlanta, GA and Dallas, TX
  - **Website:** www.EasternMetal.com
  - **E-mail:** info@EasternMetal.com
  - **Version:** 06/13/18

**Contact Information**

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

- **EMS NC**
  - 1-800-343-8154
  - (704) 391-2267 - fax

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

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

---

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

<table>
<thead>
<tr>
<th>visible blades</th>
<th>finished blades</th>
<th>visible blades</th>
<th>finished blades</th>
<th>visible blades</th>
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</tbody>
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**Brickhouse Low Profile Bahama Colonial coverage chart** - *Additional heights available upon request.*

---

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

---

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

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

**HV Low Profile Z-Blade System Schematic**

**Decorative Bahama Application (Exterior View)**

**Decorative Colonial Application (Exterior View)**

Hurricane 47
### 2" Low Profile Bahama Colonial System

*Currently available for decorative applications*

**2" Bahama/Colonial Hollow Blade x 16'**
- **80-MF-013** Mill Finish
- Uses #14 screw

**2" Bahama Decorative Blade x 16' (Non-Impact)**
- **41-63-830** Mill Finish

**2" Colonial Decorative Blade x 16' (Non-Impact)**
- **41-63-835** Mill Finish

**Low Profile Horizontal Frame x 21'**
- **41-63-831** Mill Finish
  - Can be used as Bottom Frame & Center Mullion; Colonial Top Frame

**Alternate New Orleans Style 4" Bottom Rail**
- Colonial Applications
  - **MILL ORDER 41-63-863**

**Low Profile Bahama Vertical Center Mullion x 20' 3"**
- **41-63-838** Mill Finish
  - *Punched for 2" Blades*

**Low Profile Colonial Horizontal Rail x 16' 2"**
- **41-63-862** Mill Finish
  - Horizontal Rail for Colonials

**Low Profile Side Frame x 20' 3"**
- **41-63-832** Mill Finish
  - *Punched for 2" Blades*

**Low Profile Bahama Male Frame Hinge**
- **41-63-837N x 20'** Mill Finish

**Low Profile Male Bahama Frame Hinge**
- **41-63-837N x 20'** Mill Finish

---

### Low Profile Bahama Colonial Coverage Chart

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

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**Hurricane 48**

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<td>1-800-343-8154</td>
<td>1-800-996-6061</td>
<td>1-888-822-6061</td>
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<tr>
<td>(561) 588-4780 - fax</td>
<td>(704) 391-2267 - fax</td>
<td>(281) 656-2297 - fax</td>
<td>(314) 344-3349 - fax</td>
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**Website:** www.EasternMetal.com  
**E-mail:** info@EasternMetal.com  
**Version:** 04/07/20
1-1/4" HV LOW PROFILE DECORATIVE BAHAMA/COLONIAL SYSTEM*
*Currently available for decorative applications

---

1-1/4" HV LOW PROFILE BLADE x 12'
41-63-834 Mill Finish

Low Profile Horizontal Frame x 21'
41-63-831 Mill Finish
Can be used as Bottom Frame & Center Mullion; Colonial Top Frame

BAHAMA FEMALE HINGE x 20'
41-63-803 Mill Finish

1" BUILD-OUT BAHAMA FEMALE HINGE x 20'
41-63-804 Mill Finish

BAHAMA FEMALE FLAT HINGE x 20'
41-63-805 Mill Finish

---

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

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

HV LOW PROFILE COLONIAL HORIZONTAL RAIL x 16' 2"
41-63-862 Mill Finish
Horizontal Rail for Colonials

Alternate New Orleans Style 4" Bottom Rail Colonial Applications
MILL ORDER 41-63-863

---

For Hinges & Components see Hurricane p 54

1-1/4" Low Profile Bahama Colonial coverage chart
Additional heights available upon request. Blades continue inside top & bottom channel.

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<tr>
<th>visible blades</th>
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<th>finished height&quot;</th>
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Hurricane 49

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[EMS FL] 1-800-432-2204
[EMS NC] 1-800-343-8154
[EMS TX] 1-800-996-6061
[EMS MO] 1-888-822-6061

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

website: www.EasternMetal.com  e-mail: info@EasternMetal.com  version: 04/07/20
**HV LOW PROFILE DECORATIVE BAHAMA/COLONIAL Z-BLADE SYSTEM**

*Currently available for decorative applications*

**HV LOW PROFILE Z-BLADE x 12' 2"**
52-63-060    Mill Finish
for Z-Blade System

**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

**HV LOW PROFILE Z - SNAP PLATE x 16' 2"**
41-63-860    Mill Finish
Mates with 41-63-860
41-63-861R  PUNCHED* Right
41-63-861L  PUNCHED* Left
*Punched to accept Z-Blade

**HV LOW PROFILE HORIZONTAL FRAME x 21’**
41-63-831    Mill Finish
Can be used as Bottom Frame & Center Mullion; Colonial Top Frame

**HV LOW PROFILE MALE BAHAMA HINGE x 20’**
41-63-837N    Mill Finish

**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

**HV LOW PROFILE COLONIAL HORIZONTAL RAIL x 16’ 2”**
41-63-862    Mill Finish
Horizontal Rail for Colonials

**Alternate New Orleans Style 4” Bottom Rail Colonial Applications**
**MILL ORDER 41-63-863**

**BAHAMA FEMALE HINGE x 20’**
41-63-803    Mill Finish  6 pcs

**BAHAMA FEMALE FLAT HINGE x 20’**
41-63-805    Mill Finish  6 pcs

**1” BUILD-OUT BAHAMA FEMALE HINGE x 20’**
41-63-804    Mill Finish  6 pcs

**BAHAMA FEMALE FLAT HINGE x 20’**
41-63-805    Mill Finish  6 pcs

**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

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### Low Profile Bahama Colonial Z-BLADE coverage chart

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

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<th>Visible total finished blades</th>
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</tbody>
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### Hurricane 50

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

**EMS NC** 1-800-343-8154
(704) 391-2267 - fax

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

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

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

**Website**: www.EasternMetal.com  **E-mail**: info@EasternMetal.com  **Version**: 04/07/20
## HV LOW PROFILE DECORATIVE BAHAMA/colonial WELDED SYSTEM*

*Currently available for decorative applications

### 2" Bahama/Colonial Hollow Blade x 16' Uses #14 Screw Mill Finish
- 41-63-803 Mill Finish
- 6 pcs

### 2" Bahama Decorative Blade x 16' Non-Impact Mill Finish
- 41-63-830

### 1.25 HV Low Profile Blade x 12'
- 41-63-834 Mill Finish

*Special Mill Order Frame Required - Call your Sales Representative for Coverage Chart

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

### Website:
- [www.EasternMetal.com](http://www.EasternMetal.com)

### E-mail:
- info@EasternMetal.com

### Version:
- 10/16/19

---

### BAHAMA FEMALE HINGE x 20'
- 41-63-804 Mill Finish
- 6 pcs

### BAHAMA FEMALE FLAT HINGE x 20'
- 41-63-805 Mill Finish
- 6 pcs

### HV LOW PROFILE COLONIAL HORIZONTAL RAIL x 16' 2"
- 41-63-862 Mill Finish

### For Hinges & Components

---

### WELDED Low Profile Bahama Colonial coverage chart

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

<table>
<thead>
<tr>
<th>visible blades</th>
<th>total blades</th>
<th>finished height&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>24-7/16</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>26-1/4</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>28-1/16</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>29-7/8</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>31-11/16</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>33-1/2</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>35-5/16</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>37-1/8</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>38-15/16</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>40-3/4</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>visible blades</th>
<th>total blades</th>
<th>finished height&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td>42-9/16</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>44-3/8</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>46-3/16</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>48</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>49-13/16</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>51-5/8</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>53-7/16</td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>55-1/4</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>57-1/16</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>58-7/8</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>visible blades</th>
<th>total blades</th>
<th>finished height&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>31</td>
<td>60-11/16</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>62-1/2</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>64-5/16</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>66-1/8</td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>67-15/16</td>
<td></td>
</tr>
<tr>
<td>36</td>
<td>69-3/4</td>
<td></td>
</tr>
<tr>
<td>37</td>
<td>71-9/16</td>
<td></td>
</tr>
<tr>
<td>38</td>
<td>73-3/8</td>
<td></td>
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<tr>
<td>39</td>
<td>75-3/16</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>77</td>
<td></td>
</tr>
</tbody>
</table>

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**Hurricane 51**

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[EMS FL](tel:+1-800-432-2204) [EMS NC](tel:+1-800-343-8154) [EMS TX](tel:+1-800-996-6061) [EMS MO](tel:+1-888-822-6061)

**EMS TX**
- (561) 588-4780 - fax
- (704) 391-2267 - fax
- (281) 656-2297 - fax
- (314) 344-3349 - fax

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

**Website:** [www.EasternMetal.com](http://www.EasternMetal.com) **E-mail:** info@EasternMetal.com **Version:** 10/16/19
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

[Diagram of 2 Blades Interlocked Together]

3-Wave Blade Decorative
Bahama Schematic (Exterior View)
Center Mullion option not shown

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

<table>
<thead>
<tr>
<th>Visible blades</th>
<th>Finished height&quot;</th>
<th>Visible blades</th>
<th>Finished height&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>6-11/16</td>
<td>11</td>
<td>65-7/16</td>
</tr>
<tr>
<td>2</td>
<td>12-9/16</td>
<td>12</td>
<td>41-5/16</td>
</tr>
<tr>
<td>3</td>
<td>18-7/16</td>
<td>13</td>
<td>77-3/16</td>
</tr>
<tr>
<td>4</td>
<td>24-5/16</td>
<td>14</td>
<td>83-1/16</td>
</tr>
<tr>
<td>5</td>
<td>30-3/16</td>
<td>15</td>
<td>88-15/16</td>
</tr>
<tr>
<td>6</td>
<td>36-1/16</td>
<td>16</td>
<td>94-13/16</td>
</tr>
<tr>
<td>7</td>
<td>41-15/16</td>
<td>17</td>
<td>100-11/16</td>
</tr>
<tr>
<td>8</td>
<td>47-13/16</td>
<td>18</td>
<td>106-9/16</td>
</tr>
<tr>
<td>9</td>
<td>53-11/16</td>
<td>19</td>
<td>112-7/16</td>
</tr>
<tr>
<td>10</td>
<td>59-9/16</td>
<td>20</td>
<td>118-5/16</td>
</tr>
</tbody>
</table>

12-3/8" height
1 6-11/16
2 12-9/16
3 18-7/16
4 24-5/16
5 30-3/16
6 36-1/16
7 41-15/16
8 47-13/16
9 53-11/16
10 59-9/16
11 65-7/16
12 41-5/16
13 77-3/16
14 83-1/16
15 88-15/16
16 94-13/16
17 100-11/16
18 106-9/16
19 112-7/16
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 p54

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

website: www.EasternMetal.com  e-mail: info@EasternMetal.com  version: 02/25/20
NON-IMPACT BAHAMA/COLONIAL SYSTEM
For Hinges & Components see Hurricane p54 (next page)

<table>
<thead>
<tr>
<th>BAHAMA/COLONIAL HOLLOW BLADE x 16’</th>
<th>BAHAMA/COLONIAL SOLID BLADE x 20’</th>
</tr>
</thead>
<tbody>
<tr>
<td>80-MF-011 M/F (#8 screw)</td>
<td>52-63-4696 M/F 20 pcs</td>
</tr>
<tr>
<td>80-WH-011 White (#8 screw)</td>
<td>52-63-3060 White 24 pcs</td>
</tr>
<tr>
<td>Mates with Punched Frame and Cap</td>
<td>Mates with Punched Frame and Cap</td>
</tr>
</tbody>
</table>

MALE BAHAMA FRAME (with Hinge) x 20’
52-63-8535 M/F

BAHAMA/COLONIAL FRAME x 20’
MILL ORDER 52-63-4694

BAHAMA/COLONIAL CENTER MULLION
MILL ORDER 52-63-4695
MILL ORDER 52-63-4695P (punched)

2’’ .093” ARCHITECTURAL ANGLE x 24’’ 3” (Corner Key)
52-63-5805A M/F

For Storm Protection Shutter to be backed with .050 sheet

BAHAMA/COLONIAL FRAME CAP x 20’
(Punched & Unpunched)
punched* (left) 20 pcs (mates with Frame)
52-63-4698L M/F
punched* (right) 20 pcs (mates with Mullion & Frame)
52-63-4698R M/F
unpunched 16 pcs (mates with Frame)
52-63-4698 M/F

BAHAMA/COLONIAL SOLID BLADE x 20’
52-63-4696 M/F 20 pcs
52-63-3060 White 24 pcs
Mates with Punched Frame and Cap

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NON-ASSA PRODUCT

RATED IMPACT BAHAMA/COLONIAL SYSTEM (NON HVHZ)
For Hinges & Components see Hurricane p54 (next page)

<table>
<thead>
<tr>
<th>H-Mullion x 26’ 9”</th>
<th>Horizontal Tube x 26’ 9”</th>
<th>Shutter Jamb x 26’ 9”</th>
<th>Louver Blade x 12’ 2”</th>
</tr>
</thead>
</table>

* Blade slides into punched .050 sheet and inserts into Shutter Jamb slot.

HURRICANE 53
### BAHAMA/colonial hinges & components

**Used in a variety of Bahama/Colonial systems**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Code</th>
<th>Finish</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bahama Female</strong></td>
<td>Hinge x 20' Mill Finish</td>
<td>41-63-803</td>
<td>6 pcs</td>
<td>1.449</td>
</tr>
<tr>
<td></td>
<td>Hinge x 20' Wall Mount</td>
<td>41-63-804</td>
<td>6 pcs</td>
<td>1.461</td>
</tr>
<tr>
<td></td>
<td>Colonial Single Hinge x 12' Mill Finish</td>
<td>41-63-816</td>
<td>6 pcs</td>
<td>1.850</td>
</tr>
<tr>
<td></td>
<td>Colonial Double Hinge x 12' Mill Finish</td>
<td>41-63-811</td>
<td>4 pcs</td>
<td>2.920</td>
</tr>
<tr>
<td></td>
<td>Colonial Flat Hinge x 12' Mill Finish</td>
<td>41-63-814</td>
<td>16 pcs</td>
<td>1.125</td>
</tr>
<tr>
<td></td>
<td>Piano Hinge x 6' Mill Finish</td>
<td>41-63-871</td>
<td>6 pcs</td>
<td>1.630</td>
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<tr>
<td></td>
<td>Telescoping Serrated Tube x 20' Mill Finish</td>
<td>52-63-537</td>
<td>.875&quot; 26 pcs</td>
<td>3.210</td>
</tr>
<tr>
<td></td>
<td>Corner Key/Tie Down Mill Finish Angle</td>
<td>11-63-315</td>
<td>2 x 2 x 1/8 x 20'</td>
<td>3.370</td>
</tr>
<tr>
<td></td>
<td>Fixed Low Pro Colonial Mounting Bracket Pre-Drilled 3/16&quot; Holes</td>
<td>7058</td>
<td>x 4&quot;</td>
<td>4.370</td>
</tr>
<tr>
<td></td>
<td>Low Pro Hold Back Clip</td>
<td>LP-HOLDBACK</td>
<td>(1 of each: LP-003 &amp; LP-004)</td>
<td>5.990</td>
</tr>
<tr>
<td></td>
<td>Hurricane 54</td>
<td></td>
<td></td>
<td>2.875</td>
</tr>
</tbody>
</table>

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

**Website:** [www.EasternMetal.com](http://www.EasternMetal.com)  
**E-mail:** info@EasternMetal.com  
**Version:** 11/19/19
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
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, 58mm
- Non-End Retention Systems: 40mm, 58mm
- 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 (2-¼" in Mill Finish)
- .050 Aluminum (2" & 2-¼" in Mill Finish & White)
- Galvanized Steel (2" & 2-¼" panels)
- Clear Polycarbonate (2" & 2-¼" panels)