



**MANUFACTURED
SHUTTERS**



EASTERN METAL SUPPLY



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Fabricated Hurricane Protection Products

Please see EMS Catalog for extrusions, components and systems.

Accordion Shutters

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

Roll Shutters

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

Bahama & Colonial Shutters

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

Roll Formed Storm Panels

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





In-House Powder Coat Paint Facility

AAMA 2604 Powder Coat Process

Our brand new state-of-the-art powder coating system offers an industry best quality, price and turn around time. EMS continues to innovate all of our industry leading product offerings to give you the best product at the best value.





We offer ready-to-install shutters including:

- Bahamas & Colonials
- Accordions
- Roll Shutters (with Home Automation)
- Storm Panels
- Hurricane Fabric



*THE COLOR AND GLOSS LEVELS SHOWN HERE ARE APPROXIMATE ONLY.
Please request paint chips for actual colors.

Standard Colors:

Bone White H001	Fine Ivory H002	Sandstone H003	Sierra Tan H004	Southern Bronze H005
Fashion Gray H204	Charcoal Gray H008	Super Black H009	Sky White H010	Interstate Blue H016
Forest Green H019	Seawolf H006	Colonial Red H013	Teal H014	Military Blue H015
Dark Green H088	Regal Brown H047	Bike Black H090	High Gloss Sky White - H157	   

RAL Colors Available (additional cost): www.ralcolor.com



Bahama Shutters

**Hurricane Protection • Security
Energy Efficiency • Noise Reduction**

Features & Benefits (Decorative & Impact Rated)

- Custom widths and heights available
- Durable, powder coated finishes in AAMA 2604
- The quickest, most efficient assembly for manufacturing
- Provides an attractive aesthetic look
- Convenient, permanent installation
- Provide shade and energy efficiency in open position
- Telescoping arms & brackets
- Top hinge
- Insurance discounts
- Ideal for Home or Business
- Improves LEED Rating for Commercial Installations



Low Profile Decorative Bahama Shutters

Available in a variety of standard colors, widths and heights

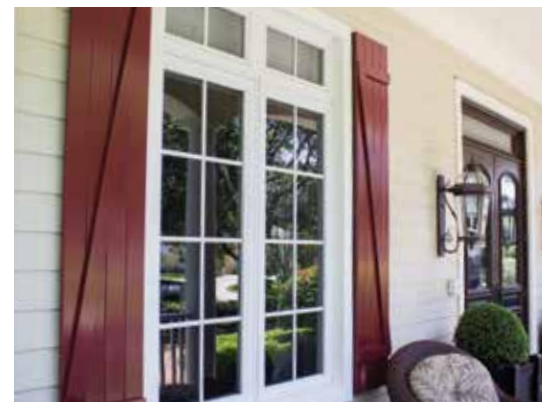
Optional Items

- 1", 1.25", 2" or Z-Blade (decorative/shade only)
- Samples Available

Impact Rated Bahama Shutters

- **High Visibility: FBC (non-HVHZ), TDI, IBC/IRC**
- 2" Oval, 2 AirFoil
- **Bertha™ Impact: FBC (HVHZ and non-HVHZ)**
- Perforated or Solid Backed





Colonial Shutters

**Hurricane Protection • Security
Energy Efficiency • Noise Reduction**

Features & Benefits (Decorative & Impact Rated)

- Custom widths and heights available
- Durable, powder coated finishes in AAMA 2604
- The quickest, most efficient assembly for manufacturing
- Provides an attractive aesthetic look
- Convenient, permanent installation
- Provide shade and energy efficiency in open position
- Side hinges & brackets
- Arched application with approved details (Impact, 3 Wave Blade, Board & Batten)
- Insurance discounts
- Ideal for Home or Business
- Improves LEED Rating for Commercial Installations

Low Profile Decorative Colonial Shutters

Available in a variety of colors, widths and heights

Optional Items

- 1", 1.25", 2" or Z-Blade (decorative/shade only)
- Samples Available

Additional Decorative Colonial Shutters

- 3 Wave Blade, Raised Panel, Board & Batten

Impact Rated Colonial Shutters

- **High Visibility: FBC (non-HVHZ), TDI, IBC/IRC**
 - 2" Oval and 2" Airfoil Blades
- **Bertha™ Impact: FBC (HVHZ and non-HVHZ)**
 - Perforated or Solid Backing
- Board & Batten: FBC (non-HVHZ), TDI, IBC/IRC



EASY LIFT Single Wall Roll Shutters (63mm)

Product Features & Benefits:

- End Retention
- Protect your patio, windows and doors
- Block the sun, wind, and rain
- Excellent for indoor & outdoor security
- Durable, powder coated finishes
- Single wall 6063-T6 extruded aluminum slats for smaller spans and less cost
- Punched slats (Non End Retention) - **COMING SOON!**
- Insurance discounts
- Small box at top
- Felt Lined Tracks



Specifications:

- Code Approvals: FBC-HVHZ, Non-HVHZ, IBC/IRC, TDI
- Up to 20' wide clear span

Options Include:

- **Spring Operated:** EASY LIFT Shutter by Hand (Span Limitations)
- **Motor Operated:** Home Automation (Alexa/Google Home compatible); Solar powered option available
- **Gear Operated:** Manual Operation with Crank, Universal and/or Spring



Torsion Spring Adjuster & Single Wall Slat are PATENT PENDING



55mm Bertha™ Roll Shutters

Product Features & Benefits:

- End Retention
- Protect your patio, windows and doors
- Block the sun, wind, and rain
- Excellent for indoor & outdoor security
- Durable, powder coated finishes
- Felt Lined Tracks
- Double wall extruded aluminum slats for wider spans & strength
- View port slats let the light in - **COMING SOON!**
- Insurance discounts



Specifications:

- Code Approvals: FBC-HVHZ, Non-HVHZ, IBC/IRC, TDI
- Meets Essential Facility Testing
- Up to 23' 10-1/2" wide clear span

Options Include:

- **Motor Operated:** Home Automation (Alexa/Google Home compatible); Solar powered option available
- **Gear Operated:** Manual Operation with Crank, Universal and/or Spring





40mm Bertha™ Roll Shutters

Product Features & Benefits:

- End Retention and Non End Retention (same blade)
- Protect your patio, windows and doors
- Block the sun, wind, and rain
- Excellent for indoor & outdoor security
- Durable, powder coated finishes
- Small box at top
- Felt Lined Tracks
- Double wall extruded aluminum slats for wider spans & strength
- Vented slats let the light in
- Insurance discounts

Specifications:

- Code Approvals: FBC-HVHZ, Non-HVHZ, IBC/IRC
- Up to 16' wide clear span

Options Include:

- **Spring Operated:** EASY LIFT Shutter by Hand (Span Limitations)
- **Motor Operated:** Home Automation (Alexa/Google Home compatible); Solar powered option available
- **Gear Operated:** Manual Operation with Crank, Universal and/or Spring



Home Automation

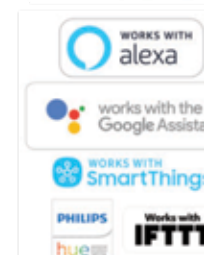
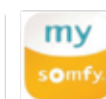
DOOYA Smart Hub DD7002B

- One Hub can connect to 30 motors
- One account can include 5 different locations
- Each location can control 5 Hubs
- Each account can have up to 3 guests
- Compatible with Remote Motor Kits: 345K, 445K, 528K, 346K, 446K, S446KB, 527K
- Compatible with Wireless Receivers: DC74, DC136



SIMU Somfy myLink Smart Hub 1811264

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



TaHoma Smart Home Gateway 1811731

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



Compatible with
GOOGLE HOME &
ALEXA



Also Available:

Dooya Solar Motor • Roll Shutter Motors

Extrusions & Components for:
40mm and 55mm Roll Shutters
63mm Single Wall Roll Shutters



Solar Motor

- No Electrician Needed
- No Electrical Permit Required

Solar Motor Includes:

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

24" Solar Panel Includes:

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

Recommended use:

- 40mm ER & Single Wall Roll Shutters



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

S346KB 30Nm lifting capacity up to 119 lbs

S446KB 50Nm lifting capacity up to 200 lbs

Both used with DD1538HK

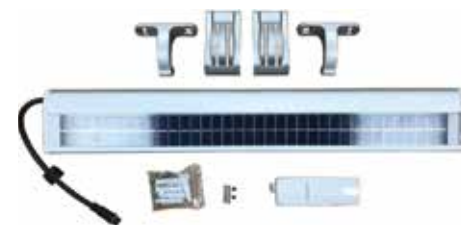
Includes (Also Sold Separately): 60 & 70mm Crowns 60 & 70mm Drives • Bracket



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

Used with S346KB & S446KB

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



Bertha™ HV™ Accordion Shutters

Product Features & Benefits:

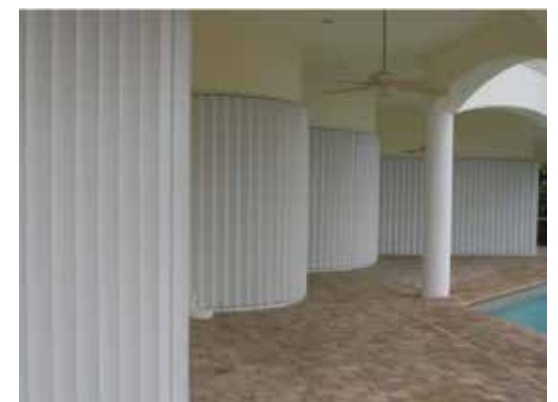
- Durable, powder coated finishes
- Universal components
- Blade Options: HV1 & HV2 (Hi-Rise)
- Designed for standard openings
- Direct mount starters for fast installation
- Applications for metal stud, keystone & plywood Install
- Curved and Radius Tracks available
- Multiple locking systems available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

Specifications:

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

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

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



Contact your EMS Sales Representative today for details and pricing.

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Bertha™ Storm Panels

2" Storm Panels - Code Approvals:

- .050 Aluminum - FBC (Non-HVHZ), (HVHZ), TDI, IBC/IRC
- 24 GA Galvanized Steel - FBC (Non-HVHZ)
- 28 GA Galvanized Steel - FBC (Non-HVHZ), FBC (HVHZ)
- Clear Polycarbonate - FBC (Non-HVHZ), FBC (HVHZ), TDI, IBC/IRC

2-1/4" Storm Panels - Code Approvals:

- .040 Aluminum - FBC (Non-HVHZ)
- .050 Aluminum - FBC (Non-HVHZ), FBC (HVHZ), TDI
- 24 GA Galvanized Steel - FBC (Non-HVHZ)
- .030 Galvanized Steel - FBC (HVHZ)
- Clear Polycarbonate - FBC (Non-HVHZ), TDI

Product Features & Benefits:

- Custom cut to specified length
- Keyhole punched
- Special designed hemmed or knurled edges for safety
- Colors: Mill Finish, White & Clear; Extrusions in White or Bronze
- Half panels available for most panel types
- Track systems to accommodate depth of panel
- Variety of headers, tracks and angles
- Insurance discounts

Specifications:

- Maximum Size: unlimited width and heights up to 155"



Bertha™ Hurricane Fabric®

The Next Generation of Enclosure Screen Technology

Product Features & Benefits:

Materials: nylon hybrid fabric with UV resistant resin coating

- Colors: Beige and White
- Custom cut to specified length or available by the roll
- Heat sealed edges; no sewing or hemming needed
- Splice sections together
- Mounting clip hardware
- Non-corrosive stainless steel screws (#8 - 32 x 1/2")
- Applications for concrete, block or wood
- Storage bags for convenience and easy access

Specifications:

- Code Approvals: FBC-HVHZ & Non-HVHZ, IBC/IRC
Miami-Dade County
- Testing/Standards: ASTM E330, E1886-1996, TAS 201, 202, 203
- Design Pressure: up to 60 PSF (see approval drawing)
- Maximum Size: unlimited width and heights up to 216"



Bahamas & Colonials:

- Wash shutter and any tracks and arms with soapy water. Rinse with clean water twice yearly, or more often in coastal or high corrosion (salt) areas.
- Lubricate threaded areas on bolts, the hinges and fasteners with a dry silicone spray.



Roll Shutters:

- It is recommended to enroll in a professional lubrication and maintenance service agreement.
- To clean close the roll shutter (down position) and wash curtain and tracks with soapy water, rinse with clean water twice yearly or more often in coastal or high corrosion (salt) areas.
- Lubricate inside of side tracks with a dry silicone spray.



Accordion Shutters:

- It is recommended to enroll in a professional lubrication and maintenance service agreement.
- To clean simply close the accordion and wash curtain and tracks with soapy water rinse with clean water.
- Lubricate rollers/wheels, locks, rods, with a silicon-based product then slide shutters open and closed to ensure operation.
- Clean and lubricate twice yearly, more often in coastal or high corrosion (salt) areas.



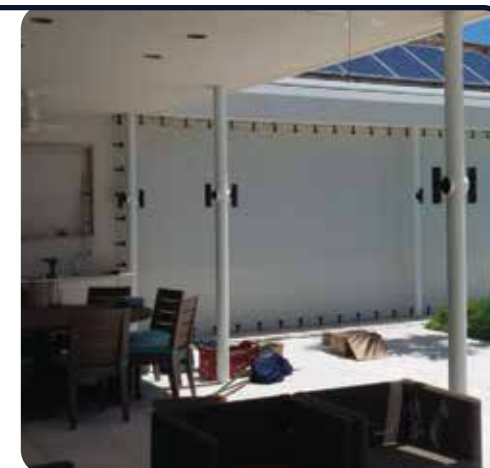
Storm Panels:

- It is recommended to remove metal or clear storm panels after periods of "Hurricane Warnings."
- Store panels flat on wood blocks when completely dry of moisture.
- Keep all tracks clean and clear of debris.
- Clear Polycarbonate panels should be cleaned with soapy water, rinsed clean and dried.
- Use gloves, safety glasses and shoes when handling.
- Lubricate track fasteners twice annually or during or after deployment.



Hurricane Fabric:

- To clean your Hurricane Fabric do so when the fabric is hanging (installed). Wash with a mild soapy detergent and warm water then rinse with clean water. Let the fabric dry completely before storing.
- Avoid harsh chemicals that will damage the fabric.
- "A Mold and Mildew Stain Remover" is available from: Iosso Cleaning Products 1485 Lively Blvd., Elk Grove, IL 60007 (847) 437-8400 Order online at: www.iosso.com



MAKE SURE YOUR SHUTTER PRODUCTS ARE READY TO PERFORM, PROTECT AND SECURE YOUR PROPERTY!

YOUR SHUTTER PRODUCTS REQUIRE REGULAR CLEANING, MAINTENANCE, AND LUBRICATION.

We recommend enrolling in a service contract for professional routine maintenance to ensure all components are working properly when needed.

- Do not use harsh chemicals or detergents and cleaners such as chlorine or bleach. These items could affect the surface appearance and operation.
- Do not wash with a high-pressure spray. Extreme pressure could crack or destroy the caulking or remove paint.
- Do not use oil based lubricants such as WD-40 which contains water.

MAKE SURE YOUR BERTHA™ SHUTTERS ARE READY TO PERFORM, PROTECT, AND SECURE YOU AND YOUR PROPERTY!

YOUR BERTHA™ SHUTTERS PRODUCTS REQUIRE REGULAR CLEANING, MAINTENANCE, AND LUBRICATION.

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Delivering More

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