2017 Approved Hurricane Products

Product Description	FBC (Non-HVHZ)	FBC (HVHZ)	TDI Evaluation	IBC/IRC	Miami-Dade NOA#
• Panels - Aluminum, Steel, Polycarbonate & Fabric:					
2" .050 Aluminum BERTHA™ Panel	FL 11964 DWG#: 15-045		SHU-124 DWG#: 06-171	DWG#: 13-056	
2" 24 GA Galvanized Steel BERTHA™ Panel	FL 11964 DWG#: 15-041		SHU-109 DWG#: 08-006	DWG#: 13-057	
2" Clear Panel (TPS/EMS)	TPS: FL 6417 DWG: 15-2494 EMS: FL 15094 DWG#: 15-040	TPS: FL6416 DWG#: 14-1509	SHU-116 DWG#: 03-155-1343b	DWG#: 09-123	
2-1/4" .040 Aluminum BERTHA™ Panel	FL 11968 DWG#: 15-042			DWG#: 13-062	
2-1/4" .050 Aluminum BERTHA™ Panel	FL 11968 DWG#: 15-044	FL 11969 DWG#: 15-049	SHU-47 DWG#: 05-012	DWG#: 07-285	
2-1/4" 24 GA Galvanized Steel BERTHA™ Panel	FL 11968 DWG#: 15-043			DWG#: 13-060	
2-1/4" .030 Galvanized Steel BERTHA™ Panel		FL 11969 DWG#: 15-048			
2-1/4" BERTHA™ Clear Panel	FL 11968 DWG#: 15-046		SHU-168 DWG#: 13-048	DWG#: 07-230	
BERTHA™ Guard Fabric Panel+	FL 13271 DWG#: 12-0222	HurricaneFabric.com FL 17661 DWG#: 15-3452	HurricaneFabric.com SHU-204 DWG#: 11-0915		NOA 15-0316.09 DWG#: 14-2202
• Non-ASSA Bahama & Colonial Shutters; Supreme Impact System:					
BERTHA™ Board & Batten Shutter	FL 11967 DWG# 15-047		SHU-161 DWG# 13-052	DWG# 07-254	
Aluminum Bahama Shutter (FPC)	FL 14452-R1 DWG# 15-167				
Aluminum Colonial Shutter (FPC)	FL 14451-R1 DWG# 15-168				
Brickhouse Low Profile Colonial Shutter			Single: SHU-210 Bifold: SHU-212		
Supreme Hurricane Impact System					NOA#12-0829.07

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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www.EasternMetal.com info@EasternMetal.com

2” BERTHA™ ROLL FORM STORM PANEL SYSTEM

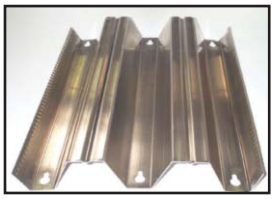
Before Installation

After Installation

2” Panels	Hemmed	Knurled
.050 Aluminum	NC Only	FL, NC
.050 Aluminum - 1/2 panel	N/A	FL, NC
24 Gauge Galv Steel	N/A	FL, NC
24 Gauge Galv Steel - 1/2	N/A	FL

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

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

Scan QR Code to View Hurricane Section Online.

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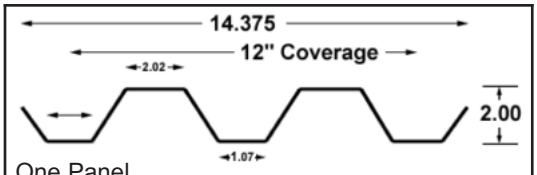
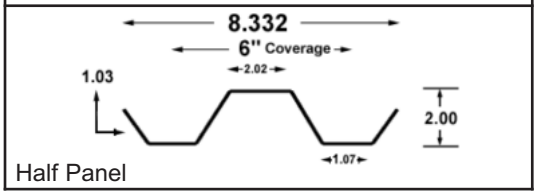
2” Coverage Chart

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



One Panel



Half Panel

Hurricane 03

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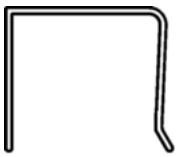
website: www.easternmetal.com **e-mail:** info@easternmetal.com **version:** 08/13/13

CODE APPROVED BERTHA™ HEADERS: 2” X .094

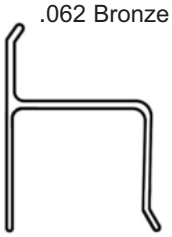
BERTHA™ U-Header
2” x .094” x 20’

40-WH-4500 White
40-MB-4500 Bronze
40-WH-450 .062 White Non-Approved
40-MB-450 .062 Bronze Non-Approved



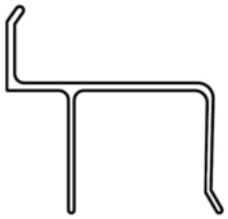
BERTHA™ H-Header
2” x .094” x 20’

40-WH-3500 White
40-MB-3500 Bronze
40-WH-350 .062 White Non-Approved
40-MB-350 .062 Bronze Non-Approved



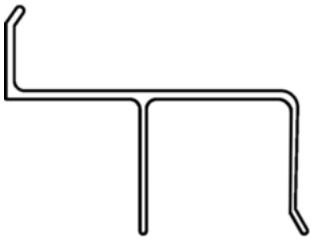
1” Build-Out BERTHA™ Header
2” x .094” x 20’

40-WH-3550 White
40-MB-3550 Bronze



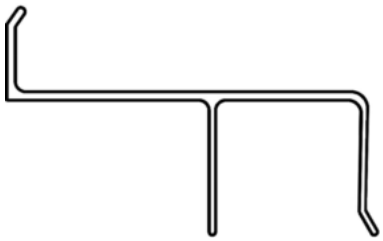
2” Build-Out BERTHA™ Header
2” x .094” x 20’

40-WH-3560 White
40-MB-3560 Bronze



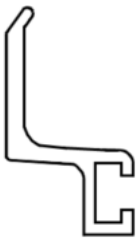
3” Build-Out BERTHA™ Header
2” x .094” x 20’

40-WH-3570 White
40-MB-3570 Bronze



BERTHA™ 1” Studless Track x 20’

40-WH-630 White
40-MB-630 Bronze

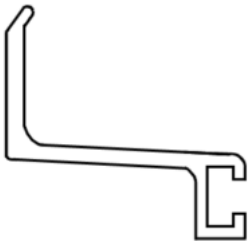


BERTHA™ Studless Flat Track x 20’

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

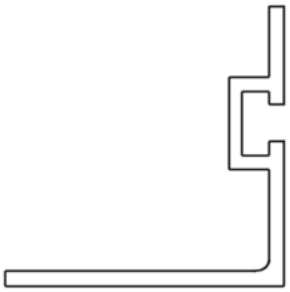
BERTHA™ 2” Studless Track x 20’

40-WH-632 White
40-MB-632 Bronze



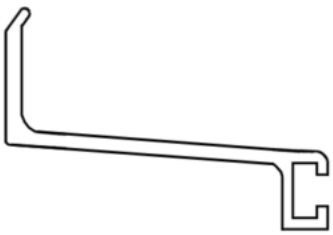
BERTHA™ Reverse “F” Track x 20’

40-WH-620 White



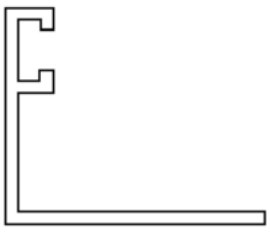
BERTHA™ 3” Studless Track x 20’

40-WH-635 White



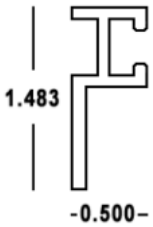
BERTHA™ Studless Angle Track x 20’

40-WH-610 White
40-MB-610 Bronze



BERTHA™ Stucco F-Track x 20’

1/2” **MILL ORDER** *52-63-5615*



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Hurricane 04

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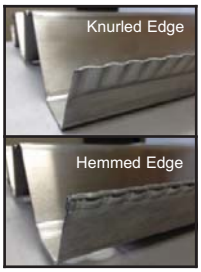
2-1/4” BERTHA™ ROLL FORM STORM PANEL SYSTEM

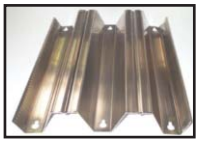
***All panels are available cut-to-length**

2-1/4” Panels	Hemmed	Knurled
.040 Aluminum	N/A	FL
.050 Aluminum	FL	FL
.050 Aluminum - 1/2 panel	N/A	FL
24 Gauge Galv Steel	FL	FL
24 Gauge Galv Steel - 1/2	N/A	FL
.030 Miami Dade Galv Steel	N/A	FL



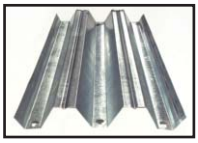
Any item manufactured in FL is available via Shuttle to the other branches.

2-1/4” .040 BERTHA™ Aluminum Storm Panel
Mill Finish



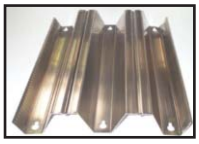
Code Approved:
FBC (Non-HVHZ), IBC/IRC

2-1/4” 24-Gauge BERTHA™ Galvanized Steel Panel
1/2 panel available



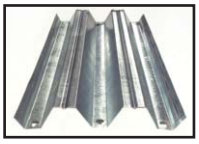
Code Approved:
FBC (Non-HVHZ), IBC/IRC

2-1/4” .050 BERTHA™ Aluminum Storm Panel
Mill Finish*/White *1/2 panel available



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

2-1/4 ” .030 BERTHA™ Galvanized Steel Panel
1/2 panel available



Code Approved:
FBC (HVHZ)

2-1/4” BERTHA™ Clear Panel

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

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

.040 Aluminum Mill Finish		.050 Aluminum Mill Finish		Clear Panel Polycarbonate	
80-40-33	x 33”	77-52-33	x 33”	79-06-33	x 33”
80-40-47	x 47”	77-52-47	x 47”	79-06-47	x 47”
80-40-57	x 57”	77-52-57	x 57”	79-06-57	x 57”
80-40-70	x 70”	77-52-70	x 70”	79-06-70	x 70”
80-40-88	x 88”	77-52-88	x 88”	79-06-88	x 88”
80-40-102	x 102”	77-52-102	x 102”	79-06-102	x 102”

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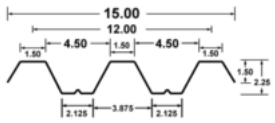
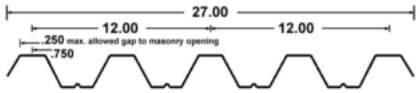
2-1/4” Coverage Chart

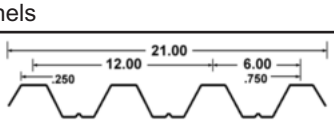
# OF PANELS	TOTAL PANEL COVERAGE	CUT TRACK AT:
1	13.375"	15"
1-1/2	19.250"	21"
2	25.375"	27"
2-1/2	31.250"	33"
3	37.250"	39"
3-1/2	43.125"	45"
4	49.375"	51"
4-1/2	55.250"	57"
5	61.000"	63"
5-1/2	67.000"	69"
6	72.750"	75"
6-1/2	78.625"	81"
7	84.625"	87"
7-1/2	90.500"	93"
8	96.500"	99"
8-1/2	102.375"	105"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



One Panel



Two Panels



One & a Half Panels

Hurricane 05

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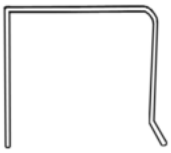
website: www.easternmetal.com e-mail: info@easternmetal.com version: 10/11/17

2-1/4" X .075 BERTHA™ CODE APPROVED HEADERS & STUDLESS TRACKS

BERTHA™ U-Header
2-1/4" x .075" x 19'

41-WH-510 White
41-MB-510 Bronze

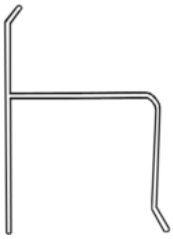


BERTHA™ H-Header
2-1/4" x .075" x 19'

41-WH-500 White
41-MB-500 Bronze

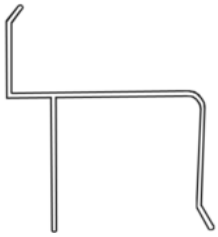
Custom Lengths
White (FL)

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"



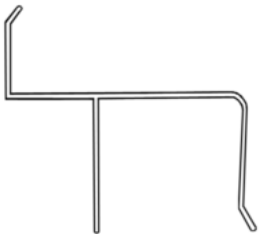
1" Build-Out BERTHA™ Header
2-1/4" x .075" x 19'

41-WH-520 White
41-MB-520 Bronze



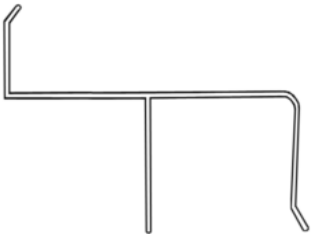
2" Build-Out BERTHA™ Header
2-1/4" x .075" x 19'

41-WH-522 White



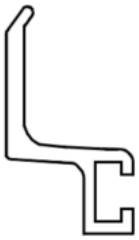
3" Build-Out BERTHA™ Header
2-1/4" x .075" x 19'

41-WH-525 White



BERTHA™ 1" Studless Track x 20'

40-WH-630 White
40-MB-630 Bronze

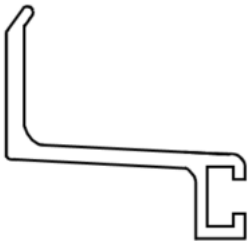


BERTHA™ Studless Flat Track x 20'

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

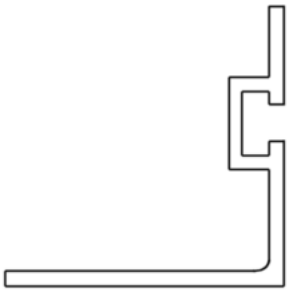
BERTHA™ 2" Studless Track x 20'

40-WH-632 White
40-MB-632 Bronze



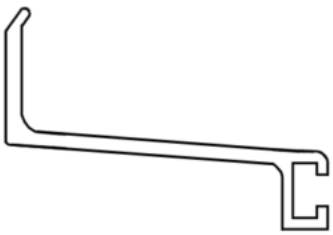
BERTHA™ Reverse "F" Track x 20'

40-WH-620 White



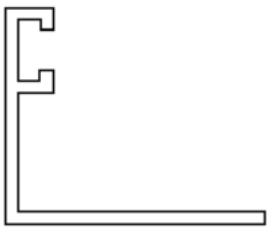
BERTHA™ 3" Studless Track x 20'

40-WH-635 White



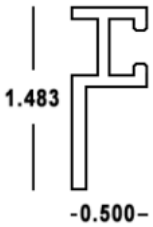
BERTHA™ Studless Angle Track x 20'

40-WH-610 White
40-MB-610 Bronze



BERTHA™ Stucco F-Track x 20'

1/2" **MILL ORDER** *52-63-5615*



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Hurricane 06

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

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website: www.easternmetal.com **e-mail:** info@easternmetal.com **version:** 12/01/16

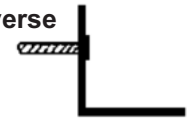
BERTHA™ STUDDED TRACKS

BERTHA™ Studded Angle
2 x 2 x .093 x 24' 3" *6" on center*

Standard:	Finish:	Reverse:
11-MF-500	M/F	N/A
11-WH-500	White	11-WH-500RS
11-MB-500	Bronze	11-MB-500RS

Standard

Reverse



BERTHA™ Studded Angle
2 x 2 x .093 x 24' 3" *12" on center*

White; Standard

11-WH-39	x 39"
11-WH-51	x 51"
11-WH-63	x 63"
11-WH-75	x 75"
11-WH-87	x 87"
11-WH-99	x 99"

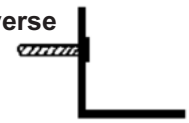
Standard

BERTHA™ Studded Angle
2 x 2 x .093 x 24' 3" *12" on center*

Standard:	Finish:	Reverse:
N/A	M/F	SPECIAL ORDER 11-MF-510RS
11-WH-510	White	SPECIAL ORDER 11-WH-510RS
11-MB-510	Bronze	N/A

Standard

Reverse



BERTHA™ Low Profile Studded Angle
1.75 x 5/8 x 24' 3"

6" on center

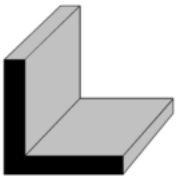
11-WH-455 White

12" on center

11-WH-460 White

BERTHA™ Standard Angle x 20'
2 x 2 x .093"

51-63-544 (TX)	White
51-63-543	Bronze
52-63-013	Ivory

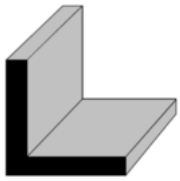


BERTHA™ Snap Cap x 20' 3"
52-63-8292

Mates with Studded Plate (below)

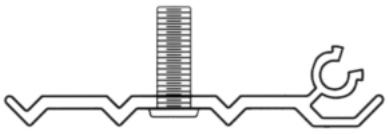
BERTHA™ Standard Angle x 20'
2 x 2 x 1/8"

11-63-315	M/F
11-WH-376	White
11-MB-376	Bronze
11-IV-376	Ivory
11-BG-376	Beige



BERTHA™ Studded Plate x 20' 3"

52-63-8291	*non studded*
52-WH-8291	*6" on center*
MILL ORDER *52-WH-8295 (FL)*	*12" on center*



Mates with Snap Cap (above)

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Hurricane 07

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website: www.easternmetal.com e-mail: info@easternmetal.com version: 08/15/16

Important Notes:

1. The following instructions are intended for openings with standard "H" header and studded angle mounted flush to the wall. If you have obstructions (raised stucco bands, sills, etc.) that will prevent mounting flush contact your retailer for alternative mounting tracks.

2. Use the guide below for your type of construction.

3. Always wear gloves and safety goggles while cutting, drilling or handling storm panels.

Wood Construction

Drill Size:	Fastener Type:	Drill Hole:
1/8"	Lagscrew	1"
1/8"	Male Panel Mate	1"
1/8"	Female Panel Mate	1"

Concrete Construction

Drill Size:	Fastener Type:	Drill Hole:
3/16"	Tapcom	1-3/4"
3/16"	M & FM Panel Mate	1-3/4"
3/16"	Lead Anchor	1"

Start Here:

On paper, draw a layout of your home, noting the location of each opening. Then number each opening with your front door as #1 then move counter clockwise and number each opening.

Measure both width and height of each opening to be protected, from the outside of your house.

Figure the total number of panels needed along with their height by using the corresponding chart in the brochure.

Panels can also be mounted horizontally by using (2) studded angles installed vertically on each side of your opening.

Material Order Form

Opening Number	Opening Size: W x H	Aluminum Panel	Clear Panel	Panel Height	H-Header Size	Studded Angle Size	CPW Sidewalk Bolt & Wingnut =Stitching
1	*36" x 51"*	*2*	*1*	*57"*	*39"*	*39"*	*7 each*

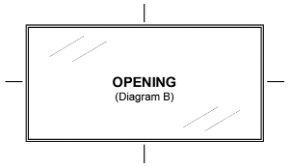
Installation Instructions:

Step 1: Mounting "H" Header and Studded Angle

1. Drill ¼" holes into "H" header and studded angle not more than 6" on center (oc) and within a maximum of 3" from each end (see Diagram A)

2. Mark the horizontal and vertical centers of your opening and the center of your mounting tracks (see Diagram B).

3. From the center mark on each side of opening measure half the distance of panel length to the top and to the bottom of the opening and make a mark. Make sure the distance between your two marks equals the total panel length.



4. Beginning with the bottom, use a level, now draw a vertical line below the entire opening (must be a minimum of 3 ½" below the edge of opening).

5. Place the studded angle over the bottom line so the holes are centered on the line and with the opening. Mark all holes to drill (make sure anchor centers are a minimum of 3 ½" below the edge of the opening).

6. Drill holes using the type and size of drill bit required for your type of construction. For concrete, blow out all holes to remove cement dust. See chart for drill sizes, fastener type, and hole size.

7. Attach studded angle to the bottom of the opening.

8. For "H" header installation first place a panel on the left side and one on the right side of the studded angle and fasten with wingnuts. Using a level on top of the panels, make sure the tops are horizontal and tighten wingnuts.

9. Place the "H" header on the panels and fully seat it. Make sure the system is centered horizontally with the opening. Now gently raise the "H" header up until there is a maximum of ¼" space between the top of the mounting holes, then drill and mount the header. The job is complete.

Step 2 Mounting Panels

1. It is recommended that gloves be worn while installing panels. Always start left to right and overlap each panel.

2. Slide the top of each panel into the "H" header then push in the bottom over the Studs and install wingnut at the bottom.

3. When installing clear panel first skip that location and install the next aluminum panel first and attach only one wingnut at the bottom right of the panel.

4. Install the clear panel in the opening between the aluminum panels, making sure it rests on top of aluminum panel at the overlaps.

5. For the clear panel to fit you can gently squeeze each riser to place keyhole over studded angle. Polycarbonate has memory and will retain some flatness (wider than aluminum panel until installed.

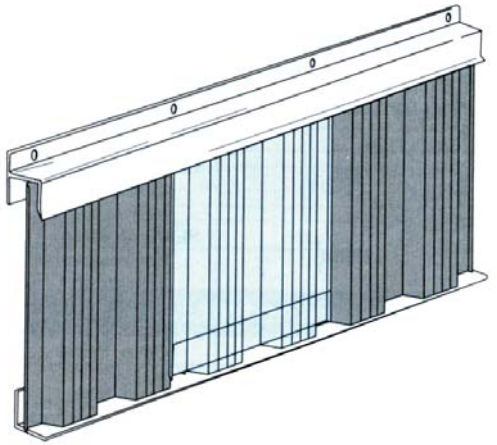
6. To reinforce the clear panel installation, install and tighten 1" sidewalk bolt with a clear panel washer and wingnut by first drilling a ¼" hole 3" from top of panel below "H" header and at the midspan of overlaps as in Diagram A. Each clear panel requires 7 clear panel washers.

7. Complete the panel installation on one window at a time. Making sure to tighten all fasteners. Using a permanent marker number each panel in the sequence they were installed and identify each opening. Record number on your layout and save for later applications.

ERTHA® Storm Panel Installation and Specification Guide

Metal Panels Manufactured by:

Eastern Metal Supply

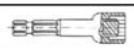


Distributed By:

Also Available:

• Accordion Shutters • Roll Shutters •
• Bahama & Colonial Shutters •

Parts List:

1	.050 Aluminum Panel or 24 gauge Galvanized Steel Panel	
2	Polycarbonate Clear Panel	
3	H-Header Top Track	
4	Studded Angle- Bottom Sill	
5	Lagscrew- Permanent Mount in Wood	
6	Tapcon- Permanent Mount in Concrete	
7	Male Panel Mate- Permanent Mount in Wood or Concrete	
8	Female Panel Mate- For Removable Mount for Wood or Concrete	
9	Lead Anchor- For Removable Mount in Concrete	
10	Sidewalk Bolt- 1 1/2" For Removable Mount 1" Used in CPW	
11	Clear Panel Washer- (CPW) Reinforces Clear Panel	
12	Wingnut- Secures Panel to Sill used with CPW also	
13	Wingnut Driver- Secures Wingnut	
14	Lead Anchor Set Tool- Taps in Lead Anchor	
15	5/16" Nut Driver- Secures Tapcon	
16	1/4" Steel Drillbit- Mounting Holes in Tracks and Panels	
17	3/16" Masonry Bit- Drills Holes for Tapcon into Concrete	
18	Combination Drillbit- Drills Hole for Lead Anchor into Concrete	

Tools Required:

• Pencil • Tape Measure • Level • Hammer • Electric Drill/ Hammer Drill • Straight Screw Driver • ¼" Steel Drill Bit • 3/16" Masonry Bit • Blower/Turkey Baster-a Tool* for removing Cement Dust • 5/16" Nut Driver • Lead Anchor Set Tool • Wingnut Driver • Electrical Extension Cord • Black or Red Permanent Marker •

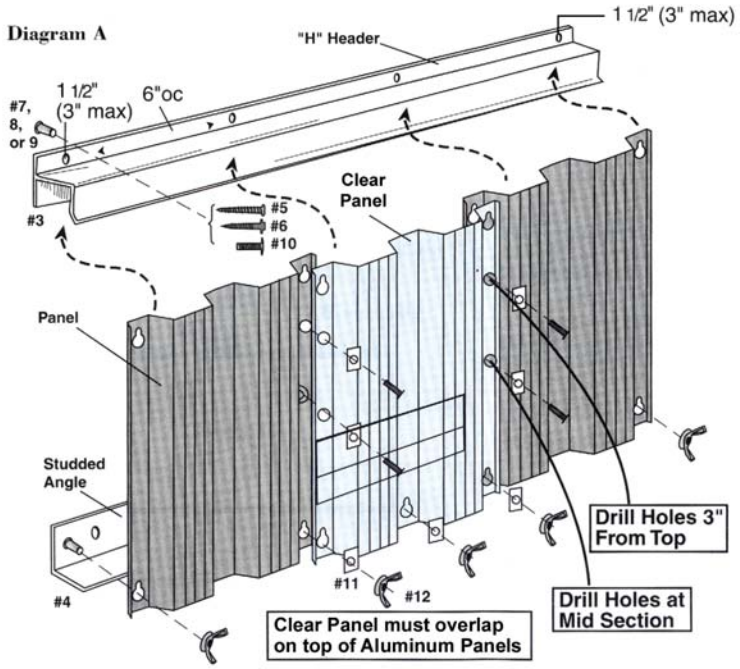
Required tools for direct mount and removable tracks with lead anchors

ERTHA® Storm Panel System

Metal Panels Manufactured by:

Eastern Metal Supply

Diagram A



Number of Panels:

Opening Width:	# of Aluminum Panels	# of Clear Panels	"H" Header	Studded Angle
20" - 37"	2	1	39	39
38" - 49"	3	1	51	51
50" - 61"	4	1	63/75	63/75
62" - 73"	4	2	75	75
74" - 84"	5	2	87/99	87/99
85" - 96"	6	2	99	99

Panel Height

Opening Height:	Panel Height:
23" - 26"	33"
26" - 41"	47"
40" - 51"	57"
52" - 64"	70"
63" - 82"	88"

Warning:

The homeowner or tenant is advised that this storm panel system will not offer hurricane protection unless all reinforcing bolts and clear panel washers are properly installed. Clear Panel must overlap on top of Aluminum Panels. Clear Panels are to be installed only for the duration of a hurricane warning period and are not intended for permanent use, with prolonged exposure to the sun.
While the storm panel is installed, the openings blocked cannot be used as escape exits.

Storage & Maintenance:

Protective gloves should always be worn when handling panels. Panels should be stored flat to prevent a tipping hazard, but should be elevated off of the floor with several pieces of 2 x 4 lumber to prevent moisture from contacting metal. Make sure panels are clear and dry and stored in an area with good air circulation. Do not wrap panels in plastic or other moisture trapping material. If moisture discoloration occurs (gray or black stain) this does not effect your structural strength.

Lexan is an extremely strong material, however, it can be scratched. When moving the panels (putting up, taking down, or storing), be sure to avoid contact with abrasive surfaces such as concrete walls, stucco, and sharp metal corners. Also, be sure to wash away abrasive particles and granuals of sand before storing in the nesting position.

If panels need cleaning, use ONLY SOAPY WATER and a clean sponge or rag. Dishwashing detergent and water is recommended. DO NOT use ammonia, chlorine bleach, or any product containing solvent based ingredients. DO NOT use abrasive cleaners. DO NOT use steel wool pads, scrubber sponges, or a used sponge or rag that may have sand particles embedded in it.