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**Product Approval**  
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OFFICE OF THE SECRETARY

FL #	FL14562-R4														
Application Type	Revision														
Code Version	2017														
Application Status	Approved														
Comments															
Archived	<input type="checkbox"/>														
Product Manufacturer	Sentinel Storm Protection														
Address/Phone/Email	3673 Exchange Ave Suite 1 Naples, FL 34104 (239) 263-9888 MikeMarczak@SentinelStormProtection.com														
Authorized Signature	Mike Marczak MikeMarczak@SentinelStormProtection.com														
Technical Representative															
Address/Phone/Email															
Quality Assurance Representative															
Address/Phone/Email															
Category	Shutters														
Subcategory	Fabric Storm Panel														
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input type="checkbox"/> Evaluation Report - Hardcopy Received														
Florida Engineer or Architect Name who developed the Evaluation Report	John Henry Kampmann Jr., PE														
Florida License	PE-47516														
Quality Assurance Entity	National Accreditation and Management Institute														
Quality Assurance Contract Expiration Date	12/31/2020														
Validated By	Frank L. Bennardo, P.E. <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received														
Certificate of Independence	<a href="#">FL14562 R4 COI Certificate of Independence 17-0816.pdf</a>														
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><u>Standard</u></th> <th><u>Year</u></th> </tr> </thead> <tbody> <tr> <td>ASTM E1886</td> <td>2005</td> </tr> <tr> <td>ASTM E1996</td> <td>2005</td> </tr> <tr> <td>ASTM E330</td> <td>2002</td> </tr> <tr> <td>TAS 201</td> <td>1994</td> </tr> <tr> <td>TAS 202</td> <td>1994</td> </tr> <tr> <td>TAS 203</td> <td>1994</td> </tr> </tbody> </table>	<u>Standard</u>	<u>Year</u>	ASTM E1886	2005	ASTM E1996	2005	ASTM E330	2002	TAS 201	1994	TAS 202	1994	TAS 203	1994
<u>Standard</u>	<u>Year</u>														
ASTM E1886	2005														
ASTM E1996	2005														
ASTM E330	2002														
TAS 201	1994														
TAS 202	1994														
TAS 203	1994														

Equivalence of Product Standards  
 Certified By

Sections from the Code

Product Approval Method	Method 1 Option D
Date Submitted	10/20/2017
Date Validated	10/26/2017
Date Pending FBC Approval	10/26/2017
Date Approved	12/13/2017

**Summary of Products**

FL #	Model, Number or Name	Description
14562.1	Typhoon Armor	Removable and Roll-Up Fabric Impact Protection Device
<b>Limits of Use</b> Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +70/-70 Other: Reference installation instructions (approval drawings) for additional installation requirements and limitations of use. Not for use in Wind Zone 4 or on essential facilities as defined in ASTM E1996.		<b>Installation Instructions</b> <a href="#">FL14562_R4_II_Installation_Drawing_17-0816i.pdf</a> Verified By: John Henry Kampmann Jr., PE 47516 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL14562_R4_AE_Product_Evaluation_Report_17-0816.pdf</a> Created by Independent Third Party: Yes

Back Next

Contact Us :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

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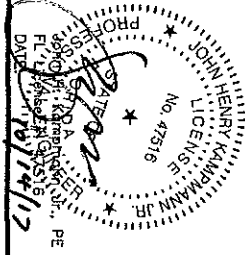
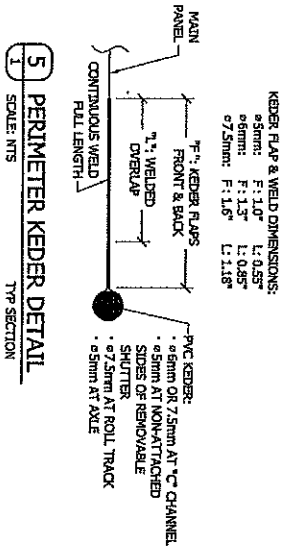
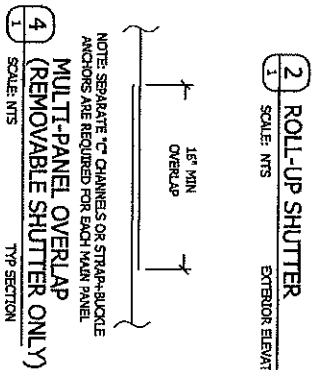
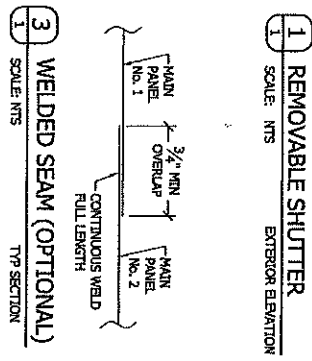
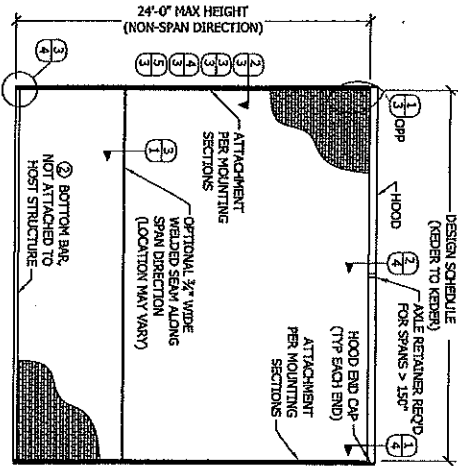
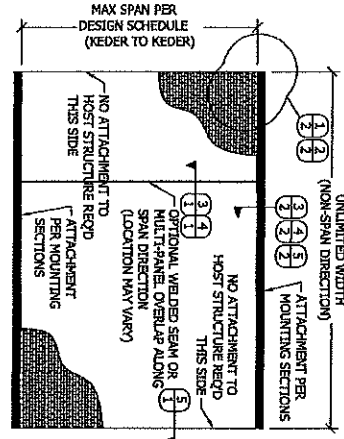
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Credit Card  
**Safe**

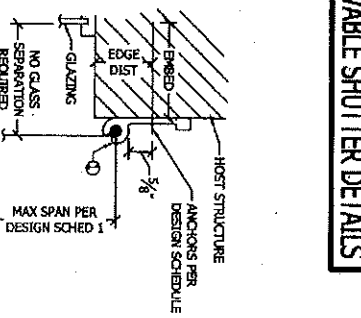
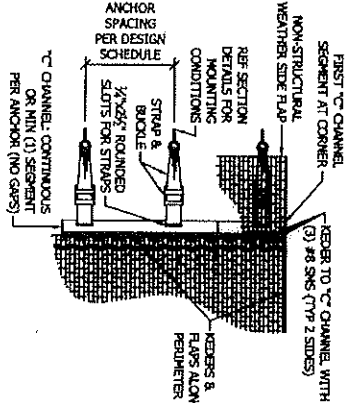
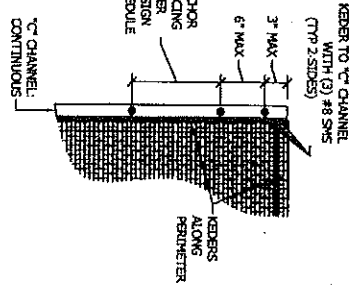


- GENERAL NOTES:**
- THIS NON-PANORAMA SYSTEM HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2017 (SIXTH EDITION) OF THE FLORIDA BUILDING CODE (FBC). THIS SYSTEM SHALL BE INSTALLED IN THE HIGH VELOCITY HURRICANE ZONE (HURRICANE RESISTANT COMPONENTS) FOR ESSENTIAL FACILITIES.
  - THE ARCHITECT FOR SPECIFIC DEFLECTION AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1609 OF THE ABOVE REFERENCED CODE, AND AS PER ASTM E1996-05, ASTM E1996-05 AND ASTM E339-02 AS LISTED HEREIN AS WELL AS ADDITIONAL STANDARDS AS INDICATED ELSEWHERE ON SHEET 1 OF 4.
  - DESIGN PRESSURE REQUIREMENTS OF A SPECIFIC SITE SHALL BE DETERMINED BY OTHERS IN CONFORMANCE TO SECTION 1609 OF THE FBC FOR A BASIC WIND SPEED (ALLOWABLE STRESS DESIGN) AS REQUIRED BY THE JURISDICTION WHERE THE SYSTEM WILL BE INSTALLED. ULTIMATE DESIGN WIND (UD) DETERMINED BY ASCE 7-10 SHALL BE REDUCED TO ALLOWABLE STRESS DESIGN WIND (ASD) BY MULTIPLYING THE UD BY 0.6, TO COMPARE THEM TO THE ASD PRESSURE RATINGS SHOWN HEREIN. USE OF REDUCTION FACTOR RATINGS IS ALLOWED.
  - IMPACT AND FATIGUE RESISTANCE HAS BEEN DETERMINED IN ACCORDANCE WITH THE FBC SECTION 1609.2.2, MINIMUM TYPE D AS LISTED HEREIN.
  - NO 35-YEAR INCREASE IN ALLOWABLE STRESS INCREASE HAS BEEN USED IN THE DESIGN OF THIS PRODUCT.
  - THIS PRODUCT EVALUATION DOCUMENT (PED) PREPARED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. IF SITE CONDITIONS DEVIATE FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS TO BE USED IN CONJUNCTION WITH THIS DOCUMENT.
  - THE CONTRACTOR AND/OR OWNER SHALL BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS SYSTEM, INCLUDING VERIFYING THE QUALITY OF THE ENGINEERING MATERIALS TO WITHSTAND THE NEW OPERATIONAL USES SHOWN BELOW AND THE SOUNDNESS OF THE STRUCTURE WHERE THE SYSTEM IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE.
  - THIS SPECIFIC PRODUCT SHALL BE PREPARED BY A FLORIDA LICENSED ENGINEER OR ARCHITECT WHO WILL RECEIVE THE ORIGINAL RECORD SET OF THIS PRODUCT AND WHO SHALL BE RESPONSIBLE FOR THE PROPER USE OF THE PED. THE ENGINEER OR ARCHITECT SHALL BE RESPONSIBLE FOR THE PROPER SELECTION OF THE SYSTEM TO BE ATTACHED TO THE SITE SPECIFIC DRAWINGS FOR REVIEW.
  - THIS PED SHALL BEAR THE DATE AND ORIGINAL SEAL OF THE PROFESSIONAL ENGINEER OR ARCHITECT THAT PREPARED IT REGARDLESS OF ITS AVAILABILITY FROM THE FLORIDA PRODUCT APPROVAL WEBSITE.
  - THIS SYSTEM MAY ALSO BE INSTALLED HORIZONTALLY FOLLOWING INSTALLATION DETAILS SHOWN HEREIN.
  - LIMITATIONS OF USE:  
10. PANEL SPACING SHALL BE 24" PER MAX. PRESSURE (240 INCHES MAXIMUM WIDTH (CENTER / CENTER OF WALL PANELS)), SEE TABLE ON SHEET 3 OF 4. NO EXCEPTION TO THIS IS REQUESTED PER 1609.2.2.2 FBC.
  - FOR DETERMINING INTERNAL PRESSURE IN THE ABOVE REFERENCED CODES, THIS PRODUCT IS CLASSIFIED AS NON-PANORAMA WITH A POROSITY OF LESS THAN 10% FOR THE CONDITIONS SHOWN IN THIS PRODUCT EVALUATION DOCUMENT. PANELS MUST COMPLETELY COVER AN OVERLAP IN ALL DIRECTIONS.
  - ALL SCREWS TO BE STAINLESS STEEL 304 OR GALVANIZED 307 STEEL.
  - ALL BOLTS TO BE ASTM A307, GALVANIZED OR 304 SERIES STAINLESS STEEL.
  - SUPPORT BRACKETS AND ANCHORS:  
14. ANCHORS INTO THE SUPPORT SUBSTRUCTURE (WALL, CEILING, BEAM AND FLOOR) SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS.  
15. THE ANCHOR BRACKETS SHOWN REFER TO CENTER OF SUPPORTING BRACKETS.  
16. THE ANCHOR BRACKETS SHOWN ARE BASED ON A REMOVAL BRACKET SYSTEM USING WELD PANEL, WELDS WITH WINDING NUTS, REMOVAL PILING, WELDS, SCREWS AND DROP-IN ANCHORS WITH SIDEWALK BOLTS. TYPICALS OF THE SAME SIZE CAN BE SUBSTITUTED FOR PERMANENT BRACKET INSTALLATIONS.  
17. ANCHOR ANCHORS EMBEDMENT AND EDGE DISTANCES SHALL BE MAINTAINED AS SHOWN ON SHEET 1 OF 4, AND PER MANUFACTURER'S SPECIFICATIONS IF APPLICABLE.  
18. NO EMBEDMENT INTO NON-STRUCTURAL MATERIAL SUCH AS STUCCO, SIDING AND PAVERS SHALL BE INCLUDED AS PART OF THE EMBEDMENT REQUIREMENTS.  
19. STEEL SURFACES TO BE PLACED IN CONTACT WITH ALUMINUM SHALL BE GIVEN ONE COAT OF ZINC CARBOXYMATE PRIMER IN ACCORDANCE WITH FEDERAL SPEC NO. 17P-645, OR BE GALVANIZED.  
20. RANDOM DESIGN PRESSURE WIND SPAN SPACING ON SHEET 2 AND 3 OF 4.  
21. ALL ALUMINUM ALLOYS SHALL BE 6063-T5 UNO.  
22. ANCHORING OR LOADING CONDITIONS OTHER THAN THOSE SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.  
23. ALL FABRIC COMPONENTS SHALL HAVE MATERIAL PROPERTIES AS NOTED HEREIN OR IN THE ASSOCIATED EVALUATION REPORT FOR THIS PRODUCT. PRELIMINARY REQUIREMENTS TO UV IS NOT RECOMMENDED.  
24. PAVES'S MANUFACTURER LABEL SHALL BE PLACED ON A REMOVAL AND VISIBLE LOCATION ON THE PANEL. ONE LABEL SHALL BE PLACED FOR EVERY OPENING LABEL SHALL BE PLACED AS FOLLOWS:  
SENTINEL STORM PROTECTION  
PAVERS, P.  
FLORIDA PRODUCT APPROVAL NUMBER: P-XXXX, CERTIFIC. NO. XX
  - THIS DOCUMENT IN ITS ENTIRETY WILL BE CONSIDERED INVALID IF IT IS ALTERED BY ANY MEANS OR DOES NOT BEAR THE DATE AND ORIGINAL SEAL OF THE PROFESSIONAL ENGINEER OR ARCHITECT THAT PREPARED IT.



2017 FBC (NON-HIGH VELOCITY HURRICANE ZONE)		CA #6752 WWW.MEAENGINEERS.COM	
1 of 4	TYP	Project Name	DESCRIPTION
		SENTINEL STORM PROTECTION	
10/19/17	JK	2673 Exchange Avenue, Suite 1 Naples, FL 34104 PHONE: (239) 263-9883 www.SentinelsStormProtection.com	
10/19/17	JK	<b>MEA ENGINEERS, INC.</b> 2352 Appalooza Circle Sarasota, Florida 34240 (941) 922-3654 CA-6072	

**REMOVABLE SHUTTER DETAILS**



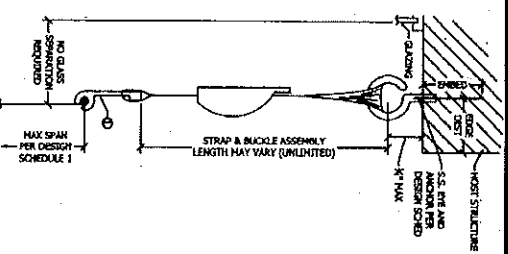
**1 DIRECT MOUNT**  
SCALE: NTS  
EXTER ELEV

**2 STRAP & BUCKLE MOUNT**  
SCALE: NTS  
EXTER ELEV

**3 DIRECT WALL MOUNT**  
SCALE: NTS  
MOUNTING SECTION

Material	Design Pressure (psf)	Direct Wall Mount					Strap & Buckle Wall Mount					Strap & Buckle Trapped Mount								
		50'	70'	100'	150'	200'	50'	70'	100'	150'	200'	50'	70'	100'	150'	200'				
Concrete	Anchor Type & Size	50	70	100	150	200	50	70	100	150	200	50	70	100	150	200				
	1/2" H.L.H. HD DROP-IN	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8				
	1/2" H.L.H. HD DROP-IN	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8				
	1/2" POWERS WEDGE BOLT	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8				
	3/8" E.L.C.O. CONFLX	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8				
	3/8" H.L.H. HD DROP-IN	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8				
	3/8" POWERS WEDGE BOLT	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8				
	3/8" POWERS DROP-IN	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8				
	5/16" T.M. TAPCON	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8				
	1/4" E.L.C.O. PANELMATE	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8				
	1/4" H.L.H. HD DROP-IN	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8				
	1/4" POWERS WEDGE BOLT	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8				
	1/4" POWERS DROP-IN	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8				
	1/4" T.M. TAPCON	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8				
	1/2" POWERS HOLLOW SET DROP-IN	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8				
1/2" POWERS WEDGE BOLT	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8					
3/8" POWERS HOLLOW SET DROP-IN	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8					
3/8" POWERS WEDGE BOLT	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8					
5/16" T.M. TAPCON	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8					
1/4" POWERS WEDGE BOLT	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8					
1/4" E.L.C.O. PANELMATE	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8					
1/4" T.M. TAPCON	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8					
1/4" T.M. TAPCON	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8					
1/4" T.M. TAPCON	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8					
1/4" LAG SCREW	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8					
3/8" LAG SCREW	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8					
5/16" T.M. TAPCON	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8					
1/4" E.L.C.O. PANELMATE	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8					
1/4" T.M. TAPCON	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8					
1/4" LAG SCREW	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8	7/8	8/8	9/8	10/8	11/8					
WOOD																				

**4 STRAP & BUCKLE TRAPPED MOUNT**  
SCALE: NTS  
MOUNTING SECTION



**JOHN HENRY KAMMERMAN**  
Professional Engineer  
No. 11111  
State of Florida  
10/19/17  
DATE: 10/19/17

2017 FBC (NON-HIGH VELOCITY HURRICANE ZONE)

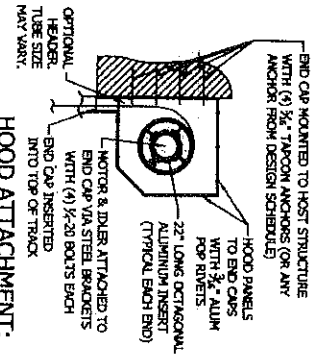
**SENTINEL STORM PROTECTION**  
3673 Exchange Avenue, Suite 1  
Naples, FL 34104  
PHONE: (239) 263-9888  
www.SentinelStormProtection.com

**TYPHOON ARMOR**  
Removable and Roll-Up  
Shutter

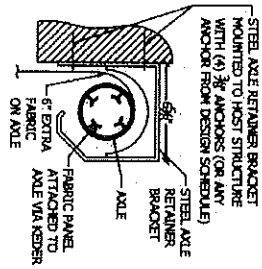
REV: DESCRIPTION

MEAE ENGINEERS, INC.  
2352 Appalooza Circle  
Sarasota, Florida 34240  
(941) 922-3654 CA-6072

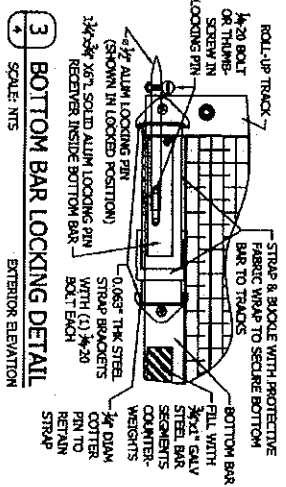




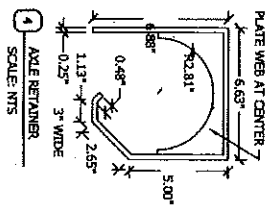
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SCALE: NTS VERT SECTION



**2 AXLE RETAINER (OPT.)**  
SCALE: NTS VERT SECTION



**3 BOTTOM BAR LOCKING DETAIL**  
SCALE: NTS EXTERIOR ELEVATION



**4 AXLE RETAINER**  
SCALE: NTS

**REMOVABLE ANCHORS**

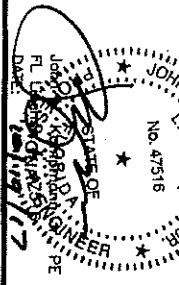
ANCHOR	NOM. DIA.	INSTALLATION REQUIREMENTS
W/HT	1/2"	CONC. 4" EMBED, 6" EDGE DIST. G.F. BLOOC. 4" EMBED, 6" EDGE DIST.
POWERS DROP-IN	1/2"	CONC. 2" EMBED, 4.5" EDGE DIST.
POWERS HOLLOW-SET DROP-IN	1/2"	CONC. 1.5" EMBED, 1.5" EDGE DIST.
HEAT RES. DROP-IN	3/8"	BLOOC. 1.25" EMBED, 4" EDGE DIST.
ALL POINTS SOLID-SET	1/4"	CONC. 1.5" EMBED, 4.5" EDGE DIST.
ELOD PANEL/MATE INSERT	1/4-20	CONC. 1.5" EMBED, 3" EDGE DIST. BLOOC. 1.5" EMBED, 3" EDGE DIST.
ELOD PANEL/MATE (Fib. Plus, Verne, VAS)	1/4-20	CONC. 2" EMBED, 2.5" EDGE DIST. G.F. BLOOC. 2.5" EMBED, 4" EDGE DIST. WOOD: 3" EMBED, 1.25" EDGE DIST.

**SCREW-TYPE ANCHORS**

ANCHOR	NOM. DIA.	INSTALLATION REQUIREMENTS
POWERS WEDGE-BOLT	1/2"	CONC. 4" EMBED, 6" EDGE DIST. G.F. BLOOC. 4" EMBED, 6" EDGE DIST.
ELOD CONCREX	3/8"	CONC. 3.5" EMBED, 6" EDGE DIST. G.F. BLOOC. 3.5" EMBED, 6" EDGE DIST.
DTW TAPCON	1/4"	CONC. 2.5" EMBED, 4" EDGE DIST. G.F. BLOOC. 2.5" EMBED, 4" EDGE DIST.
LAG SCREW	1/2"	CONC. 1.75" EMBED, 2.5" EDGE DIST. WOOD: 3" EMBED, 2" EDGE DIST.
METAL SCREW	#14	WOOD: 3" EMBED, 1.5" EDGE DIST.
ELOD ULTRACON	5/16"	ALUM. FULL THREAD BMBED, 0.75" EDGE DIST. WOOD: 3" EMBED, 1.25" EDGE DIST.

**DESIGN SCHEDULE NOTES:**

- THESE NOTES APPLY TO ALL DESIGN SCHEDULES.
- SEE EXTERIOR ELEVATIONS FOR ANCHOR LOCATIONS AND/OR DEPICTION OF SPACING DIMENSION.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
- MINIMUM EMBEDMENT AND EDGE DISTANCE SHALL BE AS NOTED IN "ANCHOR TYPES" SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
- CONCRETE HOST STRUCTURE SHALL HAVE MIN. STRENGTH 4,000 PSI.
- "G.F. BLOOC" SHALL BE ASTM C90 MASONRY UNITS FILLED WITH MIN. 2,000 PSI GROUT.
- "BLOOC" HOST STRUCTURE SHALL BE ASTM C90 MASONRY UNITS EITHER WITH OR WITHOUT GROUT FILL.
- WOOD HOST STRUCTURE SHALL BE "SOUTHERN PINE" (G-0.55 OR GREATER DENSITY).
- WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO RAYWOOD (U.N.O.).
- GROUND ANCHORS MAY BE USED FOR "REMOVABLE SHUTTERS" - ENSURE ALL APPLICABLE RATING MEETS OR EXCEEDS (PERMANENT INSTALLATIONS SHOWN IN DESIGN SCHEDULES).



2017 FBC (NON-HIGH VELOCITY HURRICANE ZONE)		CA #6752 WWW.MEAINGENEERS.COM	
<b>TYPHOON ARMOR</b> Removable and Roll-Up Shutter	<b>SENTINEL STORM PROTECTION</b> 3673 Exchange Avenue, Suite 1 Naples, FL 34104 PHONE: (239) 263-9888 www.SentinelStormProtection.com	REV. _____ DESCRIPTION _____	 2352 Appalachee Circle Sarasota, FL 34230 (941) 922-3854 CA-6072
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