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Product Approval Menu > Product or Application Search > Application List > Application Detail

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SEC	RETARY	

FL11968-R4 Application Type Revision Code Version 2017 Application Status Approved Comments

Archived

Product Manufacturer Eastern Metal Supply Address/Phone/Email 4268 Westroads Drive West Palm Beach, FL 33407 (800) 432-2204 lrodriguez@easternmetal.com

Authorized Signature Bill Feeley Irodriguez@easternmetal.com

Technical Representative Address/Phone/Email

Quality Assurance Representative Address/Phone/Email

Shutters Category Subcategory Storm Panels

Compliance Method Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer

☐ Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name who developed

the Evaluation Report

Quality Assurance Entity

Quality Assurance Contract Expiration Date

Validated By

Florida License

Walter A. Tillit, Jr.

PE-44167

National Accreditation and Management Institute

12/31/2020

John Henry Kampmann Jr.

✓ Validation Checklist - Hardcopy Received

Certificate of Independence FL11968 R4 COI EASTERN METAL SUPPLY, INC. DRAWING 17-098

CERTIFICATION OF INDEPENDENCE, PDF

FL11968 R4 COI EASTERN METAL SUPPLY, INC. DRAWING 17-095 CERTICATION OF INDEPENDENCE.PDF

FL11968 R4 COI EASTERN METAL SUPPLY, INC. DRAWING 17-096

CERTIFICATION OF INDEPENDENCE.PDF

FL11968 R4 COI EASTERN METAL SUPPLY2c INC. DRAWING 17-

094 CERTIFICATION OF INDEPENDENCE.pdf

Referenced Standard and Year (of Standard)

Standard <u>Year</u> ASTM E330 2002 SSTD12-99 1999

Equivalence of Product Standards Certified By

Florida Licensed Professional Engineer or Architect

FL11968 R4 Equiv EASTERN METAL SUPPLY, INC. DRAWING 17-095 LETTER EQUIVALENCE BETWEEN SSTD 12-99 AND ASTM

E-1996.PDF

FL11968 R4 Equiv EASTERN METAL SUPPLY, INC. DRAWING 17-098 LETTER OF EQUIVALENCE SSTD 12-99 AND ASTM E-1996.PDF FL11968 R4 Equiv EASTERN METAL SUPPLY, INC. DRAWING 17-096 LETTER EQUIVALENCE BETWEEN SSTD 12-99 AND ASTM E-1996.PDF

FL11968 R4 Equiv EASTERN METAL SUPPLY2c INC. DRAWING 17-094 LETTER EQUIVALENT BETWEEN SSTD 12-99 AND ASTM E-1996.pdf

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted

09/20/2017

Date Validated

10/28/2017

Date Pending FBC Approval

10/29/2017

bate renaing roomppro

10/25/2017

Date Approved

12/12/2017

Summary of Products	1	
FL#	Model, Number or Name	Description
11968.1	0.040" Bertha Aluminum Storm Panel (2.25" Deep)- Non-HVHZ - Drawing Number 17-094	Corrugated aluminum storm panels retained or not by tracks to provide hurricane protection.
and 4'-0" for +125, -13 8A, 9 and 11. See sheet	side HVHZ: Yes Max. span is 12'-0" for +25, -25 p.s.f. Dipperson positions 1, 3, 4, 6, 7, 8, 10 of installation drawing for other alid only for wind zones 1, 2 & 3 as	Installation Instructions FL11968 R4 II EASTERN METAL SUPPLY2c INC. DRAWING 17-094 0.040 BERTHA ALUMINUM STORM PANEL.pdf Verified By: American Test Lab of South Florida, Inc. Created by Independent Third Party: Yes Evaluation Reports FL11968 R4 AE EASTERN METAL SUPPLY2c INC. DRAWING 17-094 PRODUCT EVALUATION REPORT.pdf Created by Independent Third Party: Yes
11968.2	0.050" Bertha Aluminum Storm Panel (2.25" Deep)- Non-HVHZ - Drawing Number 17-096	Corrugated aluminum storm panels retained or not by tracks to provide hurricane protection.
p.s.f. and 8'-2" for +75, header. See sheet 5 of i	side HVHZ: Yes	Installation Instructions FL11968 R4 II EASTERN METAL SUPPLY, INC. DRAWING 17-096 0.050 BERTHA ALUMINUM STORN PANEL.PDF Verified By: American Test Lab of South Florida, Inc. Created by Independent Third Party: Yes Evaluation Reports FL11968 R4 AE EASTERN METAL SUPPLY, INC. DRAWING 17-096 PRODUCT OF EVALUATION REPORT.PDF Created by Independent Third Party: Yes
11968.3	24 Gage Galvanized Bertha Steel Storm Panel (2.25" Deep)- Non- HVHZ - Drawing Number 17-095	corrugated galvanized steel storm panels retained or not by tracks to provide hurricane protection.
	side HVHZ: Yes	Installation Instructions FL11968 R4 II EASTERN METAL SUPPLY, INC. DRAWING 17-095 24 GAGE GALVANIZE BERTHA STEEL STORM PANEL.PDF Verified By: American Test Lab of South Florida, Inc. Created by Independent Third Party: Yes

Evaluation Reports

FL11968 R4 AE EASTERN METAL SUPPLY, INC. DRAWING

17-095 PRODUCT EVALUATION REPORT.PDF

Created by Independent Third Party: Yes

and 7'-2" for +70, -80 p.s.f. for panels mounted without "H"

header. See sheet 4 of installation drawing for other spans

and pressures. Valid only for wind zones 1,2 & 3 as defined

by ASTM E-1996.

11968.4	Clear Bertha Storm Panels (2 1/4") - Drawing Number 17-098	corrugated polycarbonate storm panels retained or not by tracks to provide hurricane protection.
A.S.D. and 4'-0" for +10 sheet 3 of installation di	t side HVHZ: Yes s	Installation Instructions FL11968 R4 II EASTERN METAL SUPPLY, INC. DRAWING 17-098 CLEAR BERTHA STORM PANEL 2.25.PDF Verified By: American Test Lab of South Florida, Inc. Created by Independent Third Party: Yes Evaluation Reports FL11968 R4 AE EASTERN METAL SUPPLY, INC. DRAWING 17-098 PRODUCT OF EVALUATION REPORT.PDF 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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Product Approval Accepts:









Credit Card

Safe securityMETRICS

GENERAL NOTES:

STORM PANEL SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2017 (6th EDITION) OF THE FLORIDA BUILDING CODE. THIS STORM PANEL SHALL INDI. BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES (MAMI-DADE / BROWARD COUNTIES).

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1609 OF THE ABOVE MENTIONED CODE, FOR A WIND SPEED AS REQUIRED BY THE JURISDICTION WHERE THESES SHUTTERS WILL BE INSTALLED AND FOR A DIRECTIONALITY FACTOR KG=0.58. USING ASCE 7-10. FOR INSTALLATIONS UNDER 2017 FDC AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 4 THRU 8.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7—10 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 4 THRU 8.

IN ORDER TO VERY? THAT COMPONENTS AND ANCHORS ON THIS P.E.D. AS TESTED WERE NOT OVER STRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS <u>NOT</u> USED IN THEIR ANALYSIS. A DUNNTON FACTOR CD=1.60 WAS USED FOR VERIFICATION OF FASTENERS IN WOOD.

STORM PANEL'S ADEQUACY FOR MPACT AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1609.1.2 OF THE ABOVE MENTIONED CODE AS PER ATL REPORTS & 0121.01—808, & 0329.01—00, \$0512.01—03 AND 0617.01—04 AS PER IMPACT TESTING EQUIVALENT TO ASTAL E—1996 STANDARD. & ASTAL E 330—02 STANDARD, LIMITED TO INSTALLATIONS WITHIN WIND ZONES 1, 2 & 3 AS DEFINED BY ASTAL E—1996 STANDARD.

- ALL STEEL SHEET METAL PANELS SHALL HAVE STRUCTURAL QUALITY ASTM A-653, GRADE 40, WITH 6-60 GALVANIZED STEEL DESIGNATION.
- 3. ALL ALUMNUM EXPRUSIONS SHALL BE ALUMNUM ASSOCIATION BOBS-TB ALLOY & TEMPER UNLESS OTHERMISE NOTED STORM PANEL COMPONENTS (2) STUDDED PLATE AND (3) SIMP CAP ARE PATENT PENDING.
- 4. ALL SCREWS TO BE STANCESS STEEL 304 OR 316 ASS SERIES OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018 W/ 50 kg/ YIELD STRENGTH AND 90 kg/ TENSLE STRENGTH & SHALL COMPLY W/ FLORIDA BUILDING CODE SECTION 2411,3,3,4,
- 5. BOLTS TO BE ASTM A-307 GALVANIZED STEEL OR AISI 304 SERIES STAINLESS STEEL, WITH 35 ksi MINIMUM YIELD STRENGTH.
- 6. ANCHORS TO WALL SHALL BE AS FOLLOWS: (UNLESS OTHERWISE NOTED)

(A) TO EXISTING POURED CONCRETE:

- 1/4" & TAPCON ANCHORS AS MANUFACTURED BY 1.T.M. BUILDEX.

 1/4" & CA TAP-CREP ANCHORS (BERTHA STIDE-CON), AS MANUFACTURED BY TRU-FAST CORPORATION.

 1/4" & ZAMC MALIN ANCHORS AS MANUFACTURED BY POWER TASSIENERS, INC.

 1/4" & X 1/8" CALY-IN ANCHORS AS MANUFACTURED BY POWER TASSIENERS, INC.

 1/4" & X 1/8" CALY-IN ANCHORS OR ELCO male & female "PANELMAR". AS MANUFACTURED

 BY POWER TASSIENERS, INC., AND ELCO CONSTRUCTION PRODUCTS, RESPECTIVELY.

 1/4" & X 3/4" ALL POINTS SOLID-SET ANCHORS AS DISTRIBUTED BY ALL POINTS SCREW, BOLT & SPECIALTY COMPANY.
- NOTES:

 A.1) MINIMUM EMBEDMENT INTO POURED CONCRETE OF TAPCON ANCHORS IS 1 3/4", FOR ZMAC NAILIN ANCHORS IS 1 3/8", FOR ELCO PANELMATE ANCHORS IS 1 3/4", AND FOR CF TAP—CRIP ANCHORS IS 1 1/4".
- A.2) 7/8" CALK-IN ANCHORS SHALL BE ENTIRELY EMBEDDED INTO THE POURED CONCRETE. NO EMBEDMENT INTO STUGGO SHALL BE 1 1/2" LONG MINIMUM HOULD STUGGO ENIST, AND 1" MINIMUM FOR WALLS WITH NO STUCCO.
- A.3) MINIMUM EMBEDMENT OF 1/4" x 3/4" ALL POWTS SOLD—SET ANCHORS SHALL BE 7/8" INTO THE POURED CONCRETE. NO EMBEDMENT INTO STUCCO SHALL BE PERMITED. 1/4" θ =20 S.S. MACHINE SCREW USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO.
- A4) IN CASE THAT PRECAST STONE, PRECAST CONCRETE PANELS, OR PAVERS BE FOUND ON THE EXISTING WALL OR FLOOR ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS, ANCHORAGE SHALL BE AS NDICATED ON NOTES A.1) & A.2) ABOVE.
- (B) TO EXISTING CONCRETE BLOCK WALL:

- 1/4" & TAPCON ANCHORS AS MANUFACTURED BY I.T.W. BUILDEX.

 1/4" & CF TAP-CRIP ANCHORS (BERTIA STUD-CON), AS MANUFACTURED BY TRU-FAST CORPORATION.

 1/4" & ZAME, MULLIN ANCHORS AS MANUFACTURED BY POWER FASTENEES, INC.

 1/4" & X JA" ALL PAINTS OF ELD Mole & Namole FANELMAIE" AS MANUFACTURED

 BY POWER FASTENEES, INC. AND ELDO MOSTRUCTION PRODUCTS, RESPECTIVED.

 1/4" & X JA" ALL POINTS SOLID—SET ANCHORS AS MANUFACTURED BY I.T.W. BUILDEX.

 1/4" & RED HEND DYMASOLI SLEEVE ANCHORS AS MANUFACTURED BY I.T.W. BUILDEX.

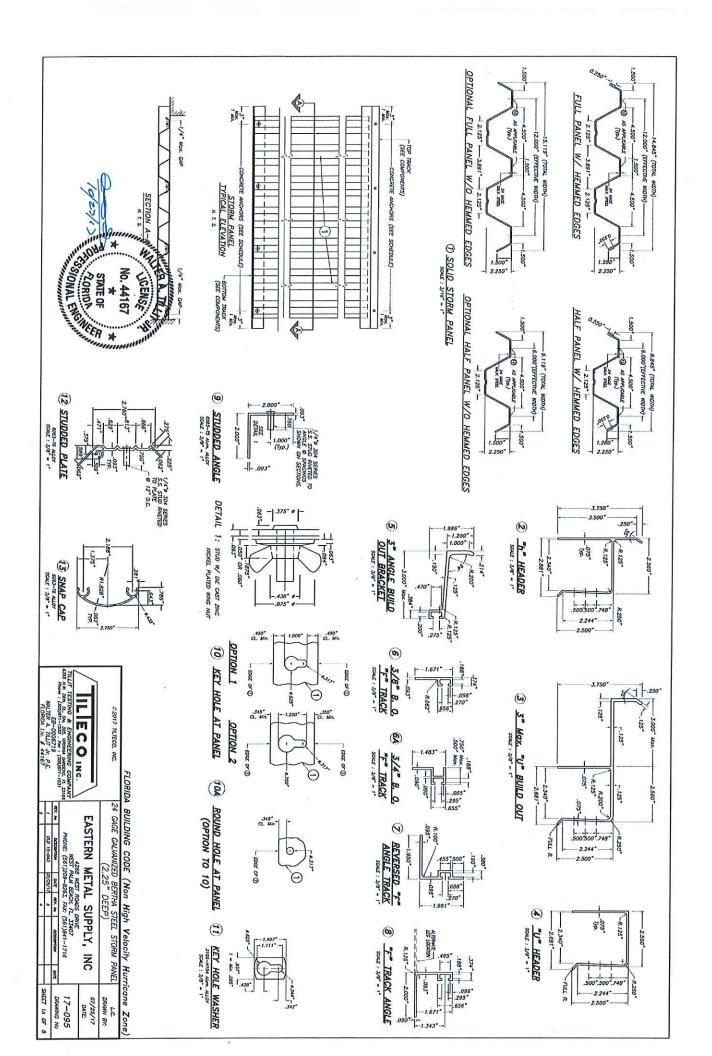
- NOTES:

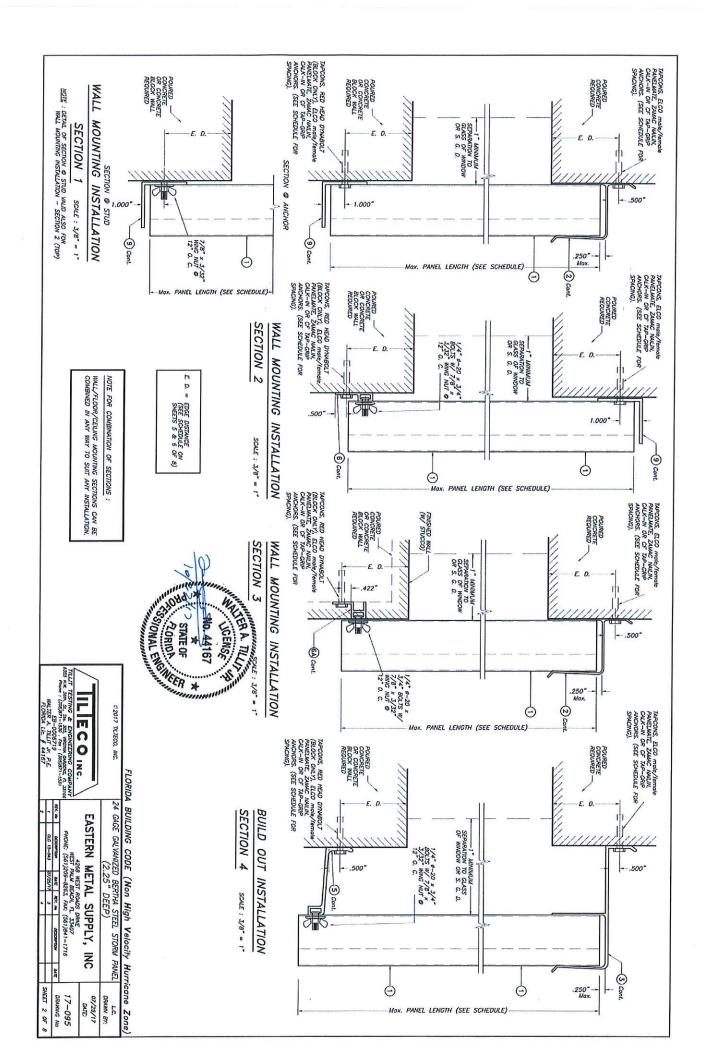
 B.1) MINUMUM EMBEDMENT OF TAPCON, ELCO PANELMATE, AND CF TAP—GRIP ANCHORS NITO CONCRETE BLOCK
 B.1) UNIT SHALL BE 1 1/4; 1 3/8" FOR ZAMAC NAULIN ANCHORS AND 1 1/8" FOR RED HEAD DYNABOLT SLEENE ANCHORS
 UNIT SHALL BE 1 1/4; 1 3/8" FOR ZAMAC NAULIN ANCHORS AND 1 1/8" FOR RED HEAD DYNABOLT SLEENE ANCHORS
- B.2) 7/6" CALK-IN ANCHORS SHALL BE EMTRELY EMBEDDED INTO THE CONCRETE BLOCK UNIT. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4"6-D5 SCREINS USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST, AND 1" MINIMUM FOR WALLS WITH NO STUCCO.
- B.3) MINIMUM EMBEDMENT OF 1/4" \times 3/4" ALL POINTS SOLD—SET ANCHORS SHALL BE 7/8" INTO THE CONCRETE BLOCK, NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED: 1/4" θ =20 S.S. MACHINE SCREW USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST, AND 1" MINIMUM FOR WALLS WITH NO STUCCO.
- B.4) IN CASE THAT PRECAST STONE OR PRECAST CONCRETE PANELS BE FOUND ON THE EXISTING WALL, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS. ANCHORAGE SHALL BE AS INDICATED ON NOTES IN B.1) AND
- (C) ANCHORS SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER
- PANELS MAY ALSO BE INSTALLED HORIZONTALLY FOLLOWING INSTALLATION DETAILS SHOWN ON SECTIONS 1 THRU 8 (SHEET 2 & 3 OF 8) EXCEPT THAT HEADERS 2, 3 & 4 SHALL NOT BE USED.
- 8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE WHERE SHUTTER IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE. THIS SHUTTER SHALL ONLY BE ATTACHED TO CONCRETE, BLOCK OR WOOD FRAME BUILDINGS.
- THE INSTALLATION CONTRACTOR IS TO SEAL/CAULK ALL SHUTTER COMPONENT EDGES WHICH REMAIN IN CONTINUOUS CONTACT WITH THE BUILDING TO PREVENT WIND/RAIN INTRUSION. CAULK AND SEAL SHUTTER TRACKS ALL AROUND FULL LENGTH.
- 10. (o) THIS P.E.D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DENAITE FROM THE P.E.D.
- (b) COMPACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTITUTION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THE PLED, PROVIDED HE/SHE DOES MOT DEWATE FROM THE CONDITIONS DEPLACED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE COMPACTOR'S RESPONSIBILITY.
- (c) THIS P.E.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- (4) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (ELOR.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTIVE AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER, SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWNICS FOR REVIEW.
- (e) THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.
- 11. SHUTTER MANUFACTURER'S LAGE. SMALL BE LOCATED ON A BENDLY YISBUE LOCATION AT STORM PANEL IN ACCORDANCE WITH SECTION 1708-9.3 OF TAGRIAD BULDING CODE. ONE LAGEL SMALL BE PUACED FOR SIGETY OPENING. LABELING TO COMPLY WITH SECTION 1708-9.2 OF THE FLORIDA BUILDING CODE.

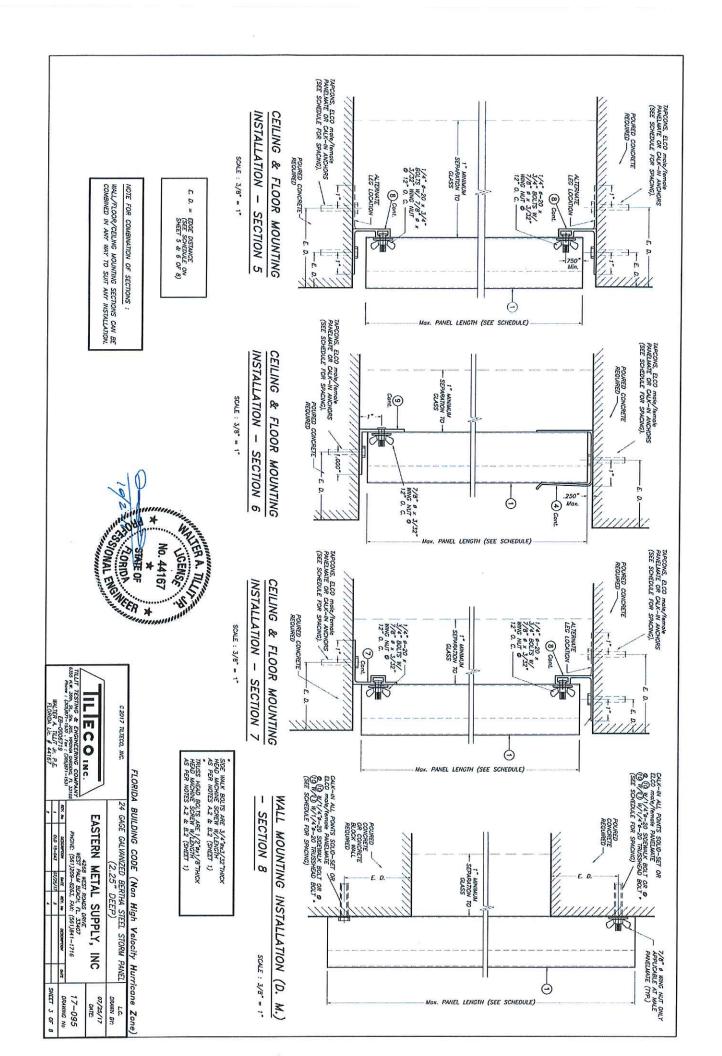


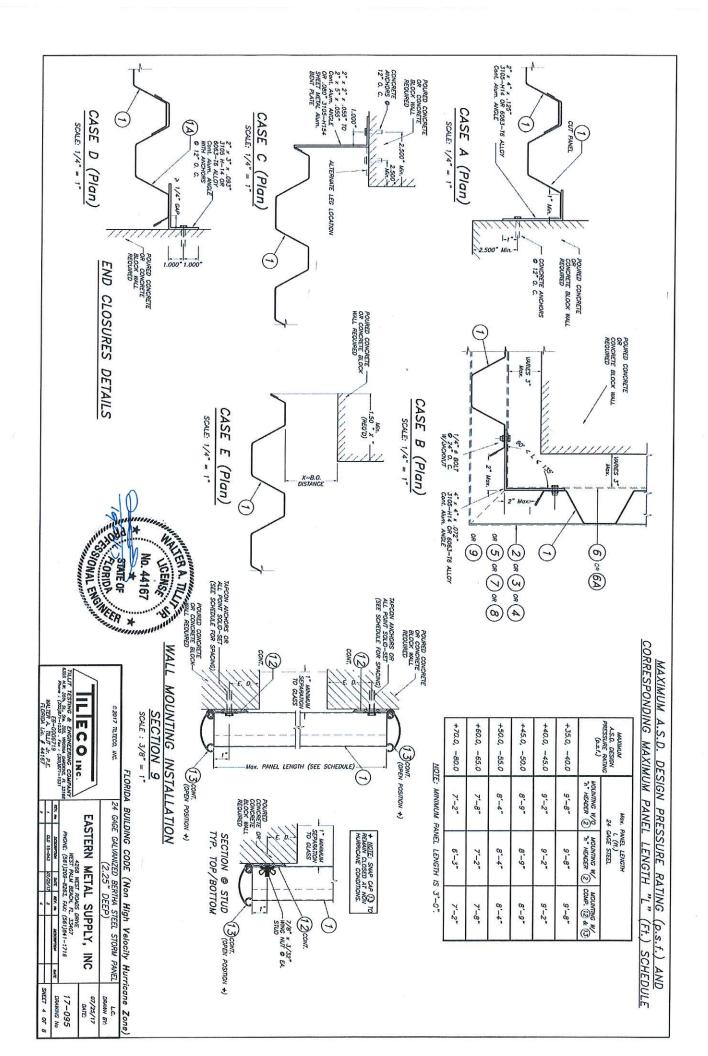
THIS DRAWING SHALL ONLY BE OBTAIN PERMITS IN THE STATE OF FLORIDA

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			,	07/25/17	0.0 15-043		WALTER A TILLIT Jr. P.E.
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17-095		13407 161)841-1716	WEST PALM BEACH, FL. 33407 (561)209-8263, FAX: (561)84	PALM BE 209-826	PHONE: (561)209-8263, FAX: (561)841-1716		TILLIT TESTING & ENGINEERING COMPANY SETS NIK 36h, SL. Sh. JOS, VACHA CARDOS, R. 3366 PROM : CXCS1671-1550 . For 1 CXCS1671-1551
07/25/17 DATE:	ਨ	PPLY, IN	INS 1	WETA	EASTERN METAL SUPPLY, INC	m	ILIECO INC.
LC. DRAWN BY:	PANEL	EL STORM I	DEEP)	ZED BERTHA ST	24 GAGE GALVANIZED BERTHA STEEL STORM PANEL (2.25" DEEP)	24 6	02017 TLTECO, INC.
FLUKIUM BUILDING CODE (Non High Velocity Hurricane Zone)	Hurri	Velocity	n High	(NO	TOING CODE	8	דרטמוטא









THIS SOURDILE MOUNTS REQUIRED, ANDHOR SONCIAGO FOR A COREN LOSIGN LOVA DAND LARGEN, HOMEOUR MAXIMUM PANDL LENGTH FOR A GARDI DESGAN LOVA MUST BE VERNITED AS PER SCHEDULE ON SHEET 4 OF B.

SPACING SCHEDULE FOR INSTALLATIONS INTO CONCRETE AND CONCRETE BLOCK STRUCTURES * MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR

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33
DISTANCE

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B (TOP/BOTTOM)	7 (воптом)	в (воттом)	6 (TOP)	5 (TOP/BOTTOM) 7 (TOP)	4 (BOTTOM)	4 (TOP)	з (воттом)	2 (воттом)	2. 9 ⁺ (10P)	1, 5 [†] (ВОТТОМ)	1 & 3 (TOP)	в (тор/воттом)	7 (BOTTOM)	в (воттом)	e (TOP)	5 (TOP/BOTTOM) 7 (TOP)	← (ВОПОМ)	(40T) \$	з (воптом)	2 (воптом)	2, 9 ⁺ (TOP)	1. 9 ⁺ (воптом)	1 & 3 (709)		SECTIONS # &	APPLICABLE TO
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MAZMUM ANCHOR SPACINOS ARE WILD FOR 3 1/2" EDGE DISTANCE. FOR E. D. LESS THAN 3 1/2", REDUCE ANCHOR SPACING BY MULTIPLYING SPACINGS SHOWN ON SCHEDULE BY THE TOLLCHING	SEE SHEET 7 & 8 OF 8 FOR ANCHORS TYPE & SPACING FOR INSTALLATIONS INTO WOOD FRAME BUILDINGS.

ACTUAL E.

CALK-IN

SOLID-SET .78 1

> CF TAP-CRIP 1.00

FACTOR

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SHALL NOT RESULT ON SPACINGS LESS THAN 3" FOR ALL ANCHORS (EXCEPT +4.5" FOR RED HD. DYNABOLT ANCHORS).	FOR THIS OPERATION TO BE MADE REDUCED SPACINGS RESULTING FROM APPLYING ABOVE FACTORS	FACTORS. (Min. E. D. FOR CALK—IN ANCHORS & ELCO PANELMATE IS 2 1/2", AND 3 1/2" FOR SOLID—SET ANCHORS)	FOR E. D. LESS THAN 3 1/2", REDUCE ANCHOR SPACING BY MULTIPLYING SPACINGS SHOWN ON SCHEDULE BY THE FOLLOWING	MAXIMUM ANCHOR SPACINGS ARE WALLD FOR 3 1/2" EDGE DISTANCE.	

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A FOR SULID-SE	FOR E. D. LESS THAN 3 1/2", REDUCE ANCHOR SPACING BY MULTIPLYING SPACINGS SHOWN ON SCHEDULE BY THE FOLLOWING FACTORS, (Min. E. D. FOR CULK-IN ANCHORS & ELCO BANGLAUTE (F. 3 1/2", MO. 1 1/3", FOR SCH. SCT. WILLIAMS BANGLAUTE (F. 3 1/2", MO. 1 1/3", FOR SCH. SCT. WILLIAMS BANGLAUTE (F. 3 1/2", MO. 1 1/3", FOR SCH. SCT. WILLIAMS BANGLAUTE (F. 3 1/2", MO. 1 1/3", FOR SCH. SCT. WILLIAMS BANGLAUTE (F. 3 1/2", MO. 1 1/3", FOR SCH. SCT. WILLIAMS BANGLAUTE (F. 3 1/2", MO. 1 1/3", FOR SCH. SCT. WILLIAMS BANGLAUTE (F. 3 1/2", MO. 1 1/3", FOR SCH. SCT. WILLIAMS BANGLAUTE (F. 3 1/2", MO. 1 1/3", FOR SCH. SCT. WILLIAMS BANGLAUTE (F. 3 1/2", MO. 1 1/3", FOR SCH. SCT. WILLIAMS BANGLAUTE (F. 3 1/2", MO. 1 1/3", FOR SCH. SCT. WILLIAMS BANGLAUTE (F. 3 1/2", MO. 1 1/3", FOR SCH. SCT. WILLIAMS BANGLAUTE (F. 3 1/2", MO. 1 1/3", FOR SCH. SCT. WILLIAMS BANGLAUTE (F. 3 1/2", MO. 1 1/3", FOR SCH. SCH. SCT. WILLIAMS BANGLAUTE (F. 3 1/2", MO. 1 1/3", FOR SCH. SCH. SCT. WILLIAMS BANGLAUTE (F. 3 1/2", MO. 1 1/3", FOR SCH. SCH. SCT. WILLIAMS BANGLAUTE (F. 3 1/2", MO. 1 1/3", FOR SCH. SCT. WILLIAMS BANGLAUTE (F. 3 1/2", MO. 1 1/3", FOR SCH. SCT. WILLIAMS BANGLAUTE (F. 3 1/2", MO. 1 1/3", FOR SCH. SCT. WILLIAMS BANGLAUTE (F. 3 1/2", MO. 1 1/3", FOR SCH. SCT. WILLIAMS BANGLAUTE (F. 3 1/2", MO. 1 1/3", FOR SCH. SCT. WILLIAMS BANGLAUTE (F. 3 1/2", MO. 1 1/3", FOR SCH. SCT. WILLIAMS BANGLAUTE (F. 3 1/2", MO. 1 1/2", FOR SCH. SCT. WILLIAMS BANGLAUTE (F. 3 1/2", MO. 1 1/2", FOR SCH. SCT. WILLIAMS BANGLAUTE (F. 3 1/2", FOR SCH. WILLIAMS BANGLAUTE (F. 3 1/2", FOR SCH	SEE SHEET 7 & 8 OF 8 FOR ANCHORS TYPE & SPACING FOR INSTALLATIONS INTO WOOD FRAME BUILDINGS.	ANCHORS SPACING ONLY APPLICABLE TO ZMAC MILIN ANCHORS	+ ONLY TAPCON ANCHORS OR ALL POINT SOLID—SET ALLOWED FOR MOUNTING SECTION 9.		8 (TOP/BOTTOM,	7 (воттом)	в (воттом)	6 (TOP)	5 (TOP/BOTTOM) 7 (TOP)	4 (BOTTOM)	4 (TOP)	з (воттом)	2 (воптом)	2. 9 ⁺ (10P)	1. 5 ⁺ (BOTTOM)	1 & 3 (TOP)	в (тор/воттом,	7 (воттом)	в (воттом)	6 (TOP)	5 (TOP/BOTTOM, 7 (TOP)	4 (BOTTOM)	4 (TOP)	з (волтом)	2 (воттом)	2, 9+(100)	1. 9 ⁺ (воттом)	1 & 3 (TOP)	OF THEM	SECTIONS # &	APPLICABLE TO
ANCHURS	PACING BY HE FOLLOW	ACING	ULIN ANCHO	ALLOWED FI							6 6	>8'-0"										Ę	_	8'-0"				_			PANEL	
								- 10-		+50.0, -55.0	70	>+40.0, -45.0				2 1817					70		+50.0,-55.0	70	>+40.0,-45.0					RATING(p.s.f.)	DESIGN	mountain
	ONAL SNOW		and	P		ı	6,	6,	8,	ن	12"	12"	12"	12"	12"	12"	8,	1	8,	8.	10*	7	12"	12"	12"	12"	12"	12"	12"	CONCRETE	Г	
	11111	HOFE	20		E TO	ı	1		ı	L	5,	,	5,	S.	1	5"	1	1	ř	1	1	Ŀ	6,	1	6	ο,	1	ο,	1	CONCRETE MASONRY	TAPCONS	
1	S/ONA	ZORIE	3 ×	100	ERA	********	1	1	Ē	t	++,11	++*11	++**!!	++,11	++**!!	++** (1	7++	1	ï	1	î	ī	12*++	12"++	12"++	12~++	12"++	12*++	12"++	CONCRETE MASONRY	ZAMAC NAILIN/ RED HD. DYMBOLT	200-200-200
	SNO SNO	W.	} ·	67	Ę	noi.	1	1	ľ	ι	10"	1	10"	10"	ı	10"	1	1	t	1	ı	Ė	12.	1	12"	12*	1	12"	É		DAMABOLT	
	ONAL SNO	eranen.	*	No. 44167	i i i i i	12"	6,	9	Y.	5"	12"	12"	12"	12"	12"	12"	8	12"	œ.	8	10-	7.	12"	12"	12"	12"	12"	12"	12"	CONCRETE MASONRY	CALK-IN	-
	INC.	<u> </u>				ı	1	1	F	1	*	ŗ	٠,	*.	ţ	۸.	1	ŗ	1	1	ı	ı	S,	1	5	٠ <u>,</u>	1	5,	e e		N/-:	
J						12"	1	1	ı	1	1	1	1	1	12.	12.	1	12	1	,		ť.	1	ī	1	1	12"	12*	C.	CONCRETE MASONRY	SOLID-SET	
	4 GAGE					12"	1	1	E	1	1	,	1	1	12"	12"	1	12"	1	1	ı	ŧ	1	1	E	1	12"	12"	1	_	-SET	,
	GALVANIZ	3				12"	o,	8 1/2"	10 1/2"	7 1/2"	12"	12.	12"	12*	12.	12.	12"	12*	11 1/2"	12"	12.	10 1/2"	12"	12"	12.	12"	12"	12"	12"	CONCRETE MASONRY	PANELWATES	
	ED BER! 2.25" L) }				Oį.	,	ï	T	ì	9 1/2"	É	9 1/2"	9 1/2"	É	9 1/2"	1	6,	1	1	î	1	12"	ij	12"	12"	1	12"	,		WATES	
						,	1	ī	ı	1	9,	9,	9,	9"	9,	9,	5 1/2"	Ē	1	1	ĩ.	1	12"	12.	12.	12"	12"	12"	12.	CONCRETE	CF TAF	
	L STORM					,	'	,	1	•	S	•	c,	ci	1	S,	1	1	1	1	1		4	ı	7	7.	1	r		TO TO	TAP-GRIP	
	100					в (тор/воттом,	7 (воттом)	в (воттом)	6 (70P)	5 (TOP/BOTTOM) 7 (TOP)	4 (вопом)	4 (TOP)	з (вопом)	2 (вопом)	2. 9+(TOP)	1. 9 ⁺ (вопом)	1 & 3 (TOP)	S (TOP/BOTTOM)	7 (вопом)	в (вотом)	6 (TOP)	5 (TOP/BOTTOM)	4 (BOTTOM)	4 (TOP)	з (воттом)	2 (воттом)		1. 9 ⁺ (вотом)	1 & 3 (TOP)	OF THEM	SECTIONS # & PANEL	אסטיוראטור זח
	ne Zoni LC. DRAWN BY:				İ	2				0) 9'-8	70	×80					7	<u>৩</u>				() LESS	8	8,-0.					+	7. (IL	PANEL	, LANGE

EASTERN METAL SUPPLY, INC 4268 WEST ROADS DRIVE WEST PALM BEACH, FL 33407 PHONE: (561)209-8263, FAX: (561)841-1716

FLORIDA BUILDING CODE (Non High Velocity Hurricone Zone)

24 GAGE GALVANIZED BERTHA STEEL STORM PANEL

1.C.
(2.25" DEEP)

BEANN BY. SHEET 5 OF 8 07/25/17 DATE: 17-095 DRAWING No

THIS SCHEDILE INDICATES REQUIRED ANCHOR SPACING FOR A CAREN LESSING LOUA AND SHALE LEDGTH. HOMENER MAXIMUM PANEL LENGTH FOR A CAREN. DESSIN LOUA JUIST BE VERRITED AS PER SCHEDULE ON SHEET 4 OF 8.

SPACING SCHEDULE FOR INSTALLATIONS INTO CONCRETE AND CONCRETE BLOCK STRUCTURES * MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR

0. = EDGE DISTANCE

					+70.0,-80.0	70	>+50.0,-55.0					RATING(p.s.f.)	PRESSURE	MAXIMUM A.S.D.
1	6,	6.	8*	5"	12"	12"	12"	12"	12"	12"	8	CONCRETE MASONRY	TAP	
î	1	1	ī	1	5,	ī	S,	u,	1	12"	1	MASONRY	TAPCONS	
Ü	,	,	1.	1	11-++	11"++	11-++	11-++	11-++	11-++	7	CONCRETE MSONRY	RED HO. DYNABO	махімі
ı	1	1	ı	1	10"	ı	10"	10.	,	10"	,		RED HD. DYNABOLT	JIM ANCHO
12"	0,	0,	8	c,	12"	12"	12"	12"	12"	12"	9,	CONCRETE	26	RS SPACIN
1	1	ì	ı	-	4,	t	4.	4	1	٨,	1	TO TO TO	CALK-IN	G FOR E
12.	1	1	1	1	ı	ı	1	1	12"	12"	1	CONCRETE MASONRY	SOLI	MAXIMUM ANCHORS SPACING FOR E. D. = 3 1/2"
12"	,	1	1	,	1	6	1	1	12.	12"	1	MASONRY	SOLID-SET	/2"
12"	8 1/2"	9,	10 1/2-	co.	12"	12"	12*	12"	12"	12"	12"	CONCRETE	PANE	
9	1	ř.	ı	1	9 1/2"	1	9 1/2"	9 1/2	î	9 1/2	1	CONCRETE MASONRY	PANELMATES	
ı	1	t	1	1	9.	9.	9,	9,	ω,	9,	o,	CONCRETE MASONRY	OF 74	
1	f	1	1	1	5	1	S ₁	5	1	5	1	TO WASONEY	CF TAP-GRIP	
в (тор/воттом)	7 (воттом)	в (воттом)	6 (TOP)	5 (TOP/BOTTOM)	4 (BOTTOM)	4 (TOP)	з (воттом)	2 (воттом)	2. 9 ⁺ (10P)	1. 9 ⁺ (ВОТТОМ)	1 & 3 (TOP)	OF THEM	SECTIONS # &	APPLICABLE TO
					LESS	3 6	: }						_	THE LINE AND

á	MANA STORE	*	WARTER A
The Manney Con	STATE OF STA	No. 44167	CENS TO
· sagar	NEER	19/2	A PLANT
		6	

					+70.0,-80.0	75	>+50.0,-55.0					RATING(p.s.f.)	PRESSURE	MAXIMUM
ı	O,	U ₁	6	4.	11.	111*	11.	11.	11.	11.	6,	CONCRETE MASONRY	TAPO	
ı		1	,	1	4,	,	*	4,	1	12"	,	MASONRY	TAPCONS	
Ĭ	i.	1	1	t	9"++	9-++	9, ‡	9. +	9" +	9° ‡	5*++	CONCRETE MASONRY	RED HD.	MAXIM
ī	1	,	ī	E	8	1	8,	8,	1	8,	1	MASONRY	RED HD. DYNABOLT	JIM ANCHO
0,	υį	5,	0,	*	11.	11.	17.	11.	11.	11.	0,	CONCRETE MASONRY		MAXIMUM ANCHORS SPACING FOR E. D. = 3 1/2" **
ŗ	1	,	,	1	ч	1	ų	G,	1	ų	1	MASONRY	CALK-IN	IG FOR E
12	1	1	ı	ı	ı	ı	t	1	12"	12*	1	CONCRETE MASONRY	SOUL	D. = 3 1
12	1	ı	ì	ı	1	ï	1	,	12*	12"	1	MASONRY	SOUD-SET	/2"
2	7	7	8 1/2"	6 1/2"	12*	12"	12"	12"	12"	12"	9 1/2	TO TO CONCRETE MASONEY	PANE	
o,	1	ı	t	1	8,	t	œ,	8,	ı	8,		TO MSONRY	PANELMATES	
ı			ı	1	7 1/2-	7 1/2"	7 1/2"	7 1/2"	7 1/2"	7 1/2"	*	TO TO CONCRETE MASONRY	CF TA	
ı	1	ī	1	1	٠,	t	4.	٠.	1	٠,	1	NOSONRY	CF TAP-GRIP	
B (TOP/BOTTOM)	7 (ВОТТОМ)	в (воттом)	6 (TOP)	5 (TOP/BOTTOM) 7 (TOP)	<i>←</i> (ВОПОМ)	4 (TOP)	з (воттом)	2 (воттом)	2. 9 ⁺ (70P)	1. 9 ⁺ (воттом)	1 & 3 (TOP)	OF THEM		ADDITOADIE TO
					8'-4"	7 6						J. (U)	PANEL	WY AND WA

					+70.080.0	70	>+50.0,-55.0					RATING(p.s.f.) CONCRETE MASONRY	DESIGN	махімим	
ı	٠.	U,	o,	*	10"	10"	10"	10"	10"	10"	U ₁	CONCRETE	TAP		
1	1	ı	1	1	ч	1	ų	4	1	ų	,	WASONEY	TAPCONS		
1	ı	1	1	1	8- ++	8-+	8-+	4	\$	8, +	* :	TO TO TO CONCRETE MASONRY	RED HD.	MAXIM	
i	ı	1	,		7"	1	7	7.	,	7	ı	MASONRY	RED HD. DWWGOLT	MAXIMUM ANCHORS SPACING FOR E. D. = 3 1/2" **	
6	4	5	6.	4	10"	10"	70"	10"	10.	10"	ς,	TO TO TO CONCRETE MASONRY	3	RS SPACIN	
ţ	ŧ,	,	i	ı	ų	ı	ų	ų	,	ų	1	MSONRY	CALK-IN	IG FOR E.	
12	t	,	,	,	ı	1	ī	,	12"	12"	1	CONCRETE MISONRY	ros	D 3	
12.	ı	,	,	l.	,	1,	ı	ı	12"	12"	1	MASONRY	SOLID-SET	12"	
12.	6,	61/2"	71/2"	5 1/2"	12"	12"	12"	12"	12"	12"	œ	CONCRETE MASONRY	PANE		
ī	ī	1	ı	1	7.	1	7.	7*	1	7	ı	MSONRY	PANELMATES		
t	1	1	ī	1	6 1/2"	6 1/2"	6 1/2"	6 1/2"	6 1/2"	6 1/2"	3"	CONCRETE MASONRY	CF 74		
6	1	1	1	1	3 1/2"	ı	3 1/2	3 1/2"	1	3 1/2"	,	MASONRY	CF TAP-GRIP		
B (TOP/BOTTOM)	7 (BOTTOM)	в (воттом)	6 (TOP)	5 (TOP/BOTTOM) 7 (TOP)	4 (BOTTOM)	4 (TOP)	з (воттом)	2 (воттом)	2, 9 ⁺ (70P)	1, 9 ⁺ (ВОПОМ)	1 & 3 (TOP)	APPLICABLE TO MAXMEN SECTIONS & A PANEL ANY COMBINATION LENGTH OF THEM "L" (ft.)			
70 9'-8"								7" (m.)	PANEL	поликт					

SEE SHEET 7	• ‡	SOLID-SET OF TAP-GRIP	SOUD-SET	CATK-IN	ZAMAC MAILIN	MODENT
ONLY TAPCON	+			FACTOR		

ACTUAL E. D.

1 1/2

.35

.50 .71 .86

.50 1

.75

.78

1.00 .80

2 1/2-N

I ANCHORS OR ALL POINT SOLID—SET ALLOWED FOR MOUNTING SECTION 9.

ACING ONLY VALID FOR ZAWAC NAILIN ANCHORS.

SEE SHEET 7 & 8 OF 8 FOR ANCHORS TYPE & SPACING FOR INSTALLATIONS INTO WOOD FRAME BUILDINGS.

MAXIMUM ANCHOR SPACINGS ARE MULD FOR 3 1/2" EDGE DISTANCE.

FOR E. D. LESS THAM 3 1/2", REDUCE MICHOR SPACING SY MULTIPLYING SPACINGS SHOWN ON SCREDULE BY THE FOLLOWING FACTORS. (MIN. E. D. FOR CULT-IN ANCHORS & ELCO PANELMATE IS 2 1/2", AND 3 1/2" FOR SOLID—SET ANCHORS).

FOR THIS OPERATION TO BE MADE REDUCED SPACINGS RESULTING FROM APPLYING ABOVE FACTORS SHALL NOT RESULT ON SPACINGS LESS THAN 3" FOR ALL ANCHORS (EXCEPT +4.5" FOR RED HO. DYNAGOLT ANCHORS).

	FLORIDA
	BUILDING
	CODE
I	(Non
I	High
	Velocity
	Hurricane
ı	N

ILIECOING \$2017 TILTECO, INC. EASTERN METAL SUPPLY, INC CAGE GALVANIZED BERTHA STEEL STORM PANEL (2.25" DEEP) DRAINN ST:
DATE: SHEET 6 OF 8 17-095 DRAWING NO

