

GENERAL NOTES:

1. STORM PANEL SHOWN ON THIS PRODUCTION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2007 EDITION OF THE FLORIDA BUILDING CODE.
THIS STORM PANEL SHALL NOT BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES (WIND-SPEED / BROWARD COUNTIES). DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1609 OF THE ABOVE MENTIONED CODE. FOR A BASIC WIND SPEED AS REQUIRED BY THE JURISDICTION WHERE THE STORM PANEL IS TO BE INSTALLED, COMPANIONS AND ANCHORS ON THIS P.E.D.-03, TESTED WERE ACCORDANCE WITH THE STRENGTH OF THE STORM PANEL. WIND LOADS WERE NOT USED IN THEIR ANALYSIS. A DURATION FACTOR OF 1.60 WAS USED FOR VERIFICATION OF FASTENERS IN WOOD.

2. STORM PANEL'S ADHESIVE FOR IMPACT AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1809.1.2 OF THE ABOVE MENTIONED CODE AS PER ATL REPORTS # 0121.01-99R, # 0239.01-00, #0512.01-03 AND 0617.01-04 AS PER SSTO 12-99 STANBARD.

3. ALL STEEL SHEET METAL PANELS SHALL HAVE STRUCTURAL QUALITY ASTM A-653, GRADE 40, WITH G-60 GALVANIZED STEEL DESIGNATION.

4. ALL ALUMINUM EXTRUSIONS SHALL BE ALUMINUM ASSOCIATION 6063-T6 ALLOY & TEMPER UNLESS OTHERWISE NOTED.

5. STORM PANEL COMPONENTS (2) STUDDED PLATE AND (3) SWAP CAP ARE PATENT PENDING.

6. ALL SCREWS TO BE STAINLESS STEEL 304 OR 316 AISI SERIES OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 90418 W/ 50 KSI YIELD STRENGTH AND 90 KSI TENSILE STRENGTH.

7. BOLTS TO BE ASTM A-307 GALVANIZED STEEL OR AISI 304 SERIES STAINLESS STEEL WITH 35 KSI MINIMUM YIELD STRENGTH.

8. ANCHORS TO WALL SHALL BE AS FOLLOWS: (UNLESS OTHERWISE NOTED)

(A) TO EXISTING POURED CONCRETE:

— 1/4" Ø TAPCON ANCHORS AS MANUFACTURED BY LITK BULDEX.

— 1/4" Ø CF-TAP-GRIP ANCHORS (BERTHA STUD-COU), AS MANUFACTURED BY TRU-FAST CORPORATION.

— 1/4" Ø ZMANG NAILIN ANCHORS AS MANUFACTURED BY POWER FASTENERS, INC.

— 1/4" Ø x 1/8" CALK-IN ANCHORS OR ELOD mate & female PANELMATE AS MANUFACTURED BY POWER FASTENERS, INC. AND ELOD FASTENING SYSTEMS LLC, RESPECTIVELY.

— 1/4" Ø 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 ZMANG NAILIN ANCHORS IS 1 3/8"; FOR ELOD PANELMATE ANCHORS IS 1 3/4"; AND FOR CF-TAP-GRIP ANCHORS IS 1 1/4".

A.2) 7/8" CALK-IN ANCHORS SHALL BE ENTIRELY EMBEDDED INTO THE POURED CONCRETE. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4" Ø-20 S.S. MACHINE SCREW USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST, AND 1" MINIMUM FOR WALLS WITH NO STUCCO.

A.3) MINIMUM EMBEDMENT OF 1/4" Ø x 3/4" ALL POINTS SOLID-SET ANCHORS SHALL BE 2/8" INTO THE POURED CONCRETE. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4" Ø-20 S.S. MACHINE SCREW USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST, AND 1" MINIMUM FOR WALLS WITH NO STUCCO.

A.4) 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 INDICATED ON NOTES A.1) & A.2) ABOVE.

(B) TO EXISTING CONCRETE BLOCK WALL:

— 1/4" Ø TAPCON ANCHORS AS MANUFACTURED BY LITK BULDEX.

— 1/4" Ø CF-TAP-GRIP ANCHORS (BERTHA STUD-COU), AS MANUFACTURED BY TRU-FAST CORPORATION.

— 1/4" Ø ZMANG NAILIN ANCHORS AS MANUFACTURED BY POWER FASTENERS, INC.

— 1/4" Ø x 1/8" CALK-IN ANCHORS OR ELOD mate & female PANELMATE AS MANUFACTURED BY POWER FASTENERS, INC. AND ELOD FASTENING SYSTEMS LLC, RESPECTIVELY.

— 1/4" Ø x 3/4" ALL POINTS SOLID-SET ANCHORS AS DISTRIBUTED BY ALL POINTS SCREW, BOLT & SPECIALTY COMPANY.

NOTES:

B.1) MINIMUM EMBEDMENT OF TAPCON, ELOD PANELMATE AND CF-TAP-GRIP ANCHORS INTO CONCRETE BLOCK UNIT SHALL BE 1 1/4"; 1 3/8" FOR ZMANG NAILIN ANCHORS AND 1 1/8" FOR RED HEAD DYNAMBOLT SLEEVE ANCHORS.

B.2) 7/8" CALK-IN ANCHORS SHALL BE ENTIRELY EMBEDDED INTO THE CONCRETE BLOCK UNIT. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4" Ø-20 S.S. MACHINE SCREW USED SHALL BE 1 1/2" LONG MINIMUM FOR WALLS WITH NO STUCCO.

B.3) MINIMUM EMBEDMENT OF 1/4" Ø x 3/4" ALL POINTS SOLID-SET ANCHORS SHALL BE 2/8" INTO THE CONCRETE BLOCK. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4" Ø-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 B.2) ABOVE.

(C) ANCHORS SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER.

9. 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.

10. IF 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.

11. THE INSTALLATION CONTRACTOR IS TO SEAL/CALULK ALL SHUTTER COMPONENT EDGES WHICH REMAIN IN CONTINUOUS CONTACT WITH THE BUILDING TO PREVENT WIND/RAIN INTRUSION. CALULK AND SEAL SHUTTER TRACKS ALL AROUND FULL LENGTH.

12. (a) THIS P.E.D. PREPARED BY THIS ENGINEER IS GENERAL AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT. I.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.

(b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.E.D. PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

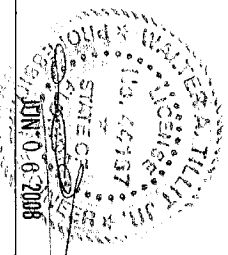
(c) THIS P.E.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

(d) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER, SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS 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.

13. SHUTTER MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT STORM PANEL IN ACCORDANCE WITH SECTION 1714.8.3 OF FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING.

14. LABELING TO COMPLY WITH SECTION 1714.8.2 OF THE FLORIDA BUILDING CODE.



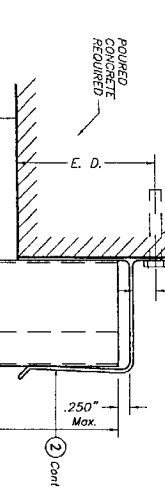
TILECO INC.
 4288 WEST HOOKS DRIVE
 WEST PALM BEACH, FL 33407
 PHONE: (561) 908-8833 FAX: (561) 941-1716
 WALTER A. TULLER, P.E.
 FLORIDA LIC # 6-2008

F.B.C. (Non High Velocity Hurricane Zone)
 24 GAGE GALVANIZED BERTHA STEEL STORM PANEL
 (2.25" DEEP)

REV. NO.	DATE	DESCRIPTION
1	02/20/08	ISSUE
2		

DRAWN BY: L.C./M.E.
 DATE: 09/12/08
 SHEET 1 OF 8

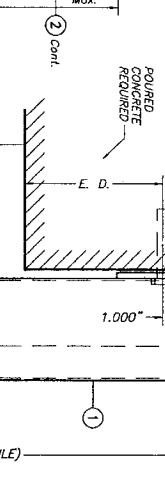
TAPCONS, E.CO mole/female PANELMATE, ZAMAC NAILIN, CALK-IN OR OF TAP-GRIP ANCHORS. (SEE SCHEDULE FOR SPACING).



SECTION 1
SCALE: 3/8" = 1"
WALL MOUNTING INSTALLATION

NOTE: DETAIL OF SECTION @ STUD WALL ALSO FOR WALL MOUNTING INSTALLATION - SECTION 2 (TOP)

TAPCONS, E.CO mole/female PANELMATE, ZAMAC NAILIN, CALK-IN OR OF TAP-GRIP ANCHORS. (SEE SCHEDULE FOR SPACING).

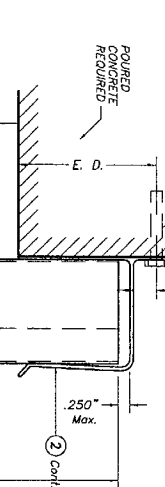


SECTION 2
SCALE: 3/8" = 1"
WALL MOUNTING INSTALLATION

E. D. = EDGE DISTANCE (SEE SCHEDULE ON SHEETS 5 & 6 OF 8)

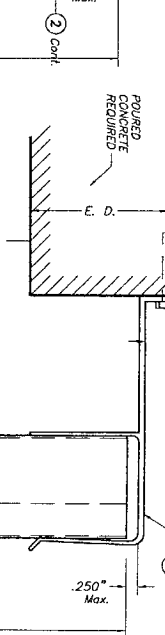
NOTE FOR COMBINATION OF SECTIONS:
WALL/FLOOR/CEILING MOUNTING SECTIONS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.

TAPCONS, E.CO mole/female PANELMATE, ZAMAC NAILIN, CALK-IN OR OF TAP-GRIP ANCHORS. (SEE SCHEDULE FOR SPACING).

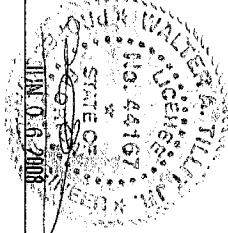


SECTION 3
SCALE: 3/8" = 1"
WALL MOUNTING INSTALLATION

TAPCONS, E.CO mole/female PANELMATE, ZAMAC NAILIN, CALK-IN OR OF TAP-GRIP ANCHORS. (SEE SCHEDULE FOR SPACING).



SECTION 4
SCALE: 3/8" = 1"
BUILD OUT INSTALLATION



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TILTECO INC.

TILTI TESTING & ENGINEERING COMPANY
6539 NW 34th St., Suite 100, Miramar, FL 33166
Phone: (305) 899-8883 FAX: (305) 891-1531
WALTER A. TILLET, P.E.
FLORIDA LIC. # 44167

F.B.C. (Non High Velocity Hurricane Zone)
24 GAGE GALVANIZED BERRHA STEEL STORM PANEL
(2.25" DEEP)

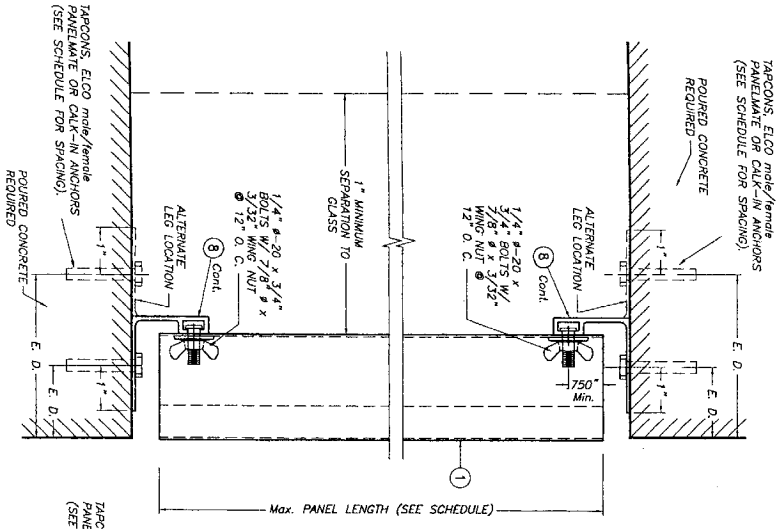
EASTERN METAL SUPPLY, INC.

4688 WEST ROAD DRIVE
WEST PALM BEACH, FL 33407
PHONE: (561) 509-8883 FAX: (561) 504-1178

REV. NO.	REVISION	DATE	BY	CHKD.
1		09/22/08		

08-142
DRAWING NO.

SHEET 2 OF 2

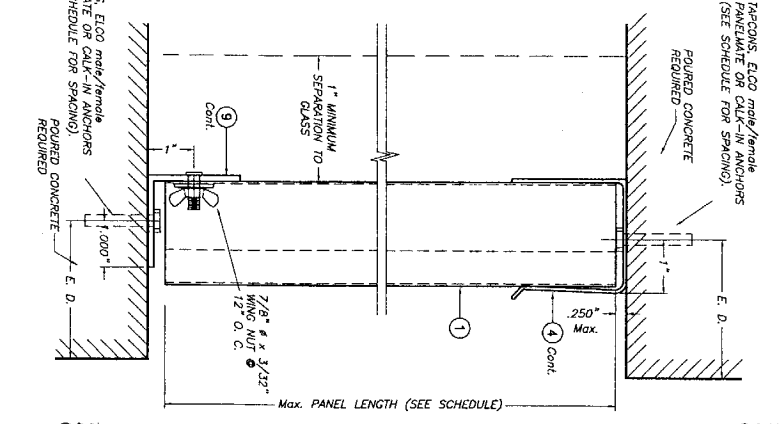


**CEILING & FLOOR MOUNTING
INSTALLATION - SECTION 5**

SCALE: 3/8" = 1"

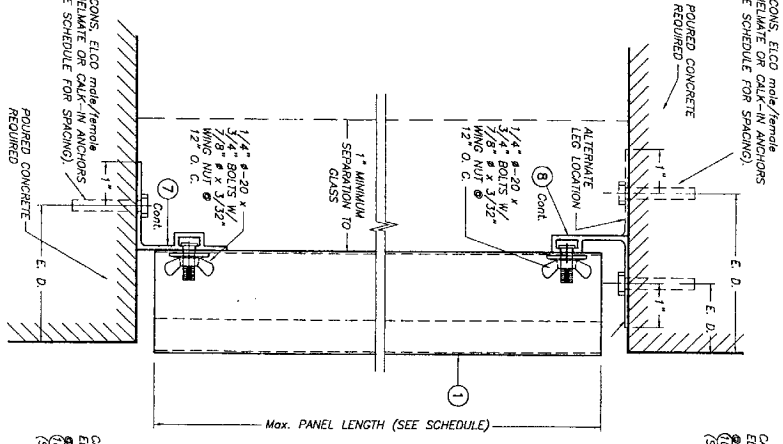
E. D. = EDGE DISTANCE
(SEE SCHEDULE ON
SHEET 9 & 9 OF 9)

NOTE FOR COMBINATION OF SECTIONS:
WALL/FLOOR/CEILING MOUNTING SECTIONS CAN BE
COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.



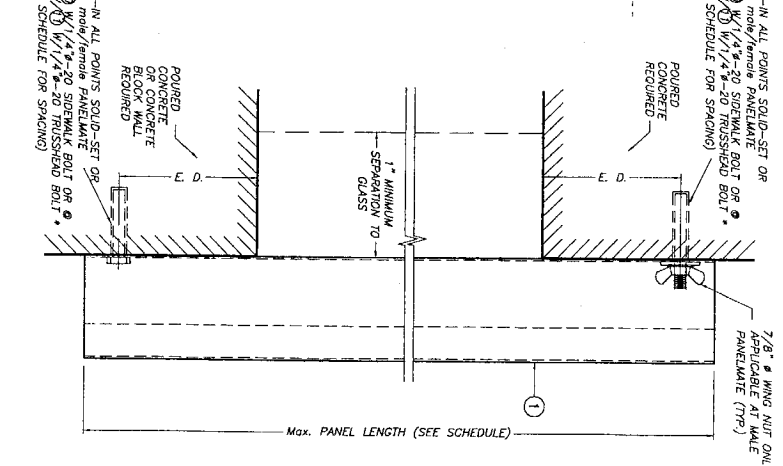
**CEILING & FLOOR MOUNTING
INSTALLATION - SECTION 6**

SCALE: 3/8" = 1"



**CEILING & FLOOR MOUNTING
INSTALLATION - SECTION 7**

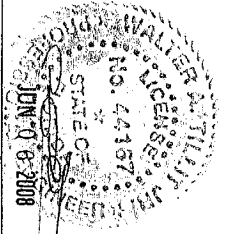
SCALE: 3/8" = 1"



**WALL MOUNTING INSTALLATION (D. M.)
- SECTION 8**

SCALE: 3/8" = 1"

SIDE WALL BOLTS ARE 3/4" x 3/16" THICK
HEAD MACHINE SCREW W/LENGTH
AS PER NOTES A.2 & B.2 (SHEET 1)
• CROSS HEAD BOLTS ARE 1/2" x 1/8" THICK
HEAD MACHINE SCREW W/LENGTH
AS PER NOTES A.2 & B.2 (SHEET 1)



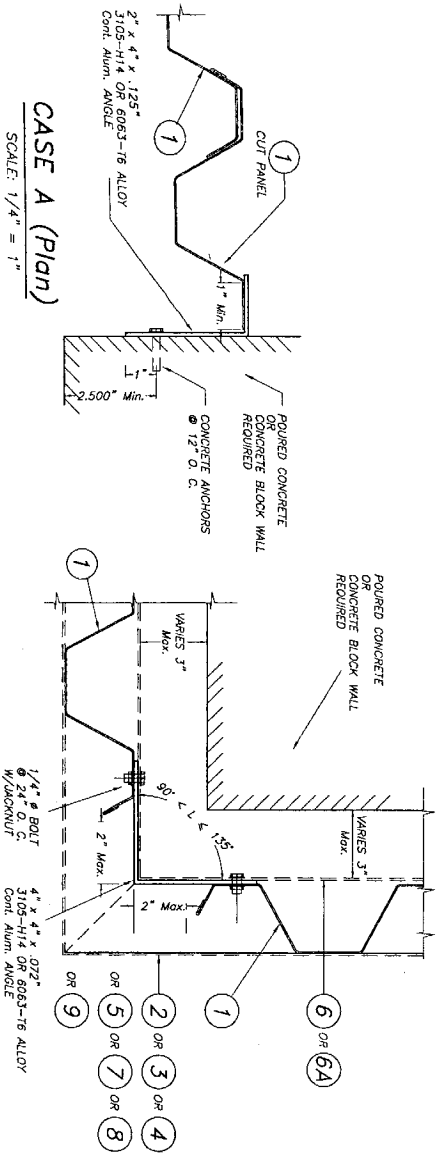
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TILTECO INC.
TILTIT TESTING & ENGINEERING COMPANY
WALTER A. TILTIT, P.E.
FLORIDA No. 44187

F.B.C. (Non High Velocity Hurricane Zone)
24 GAUGE GALVANIZED BERTHA STEEL STORM PANEL
(2.25" DEEP)
EASTERN METAL SUPPLY, INC.
4688 WEST ROADS DRIVE
WEST PALM BEACH, FL 33407
PHONE: (561)269-8263 FAX: (561)944-1716
L.S./P.E.
DRAWN BY: DATE: 05/12/08
08-142
SHEET 3 OF 9

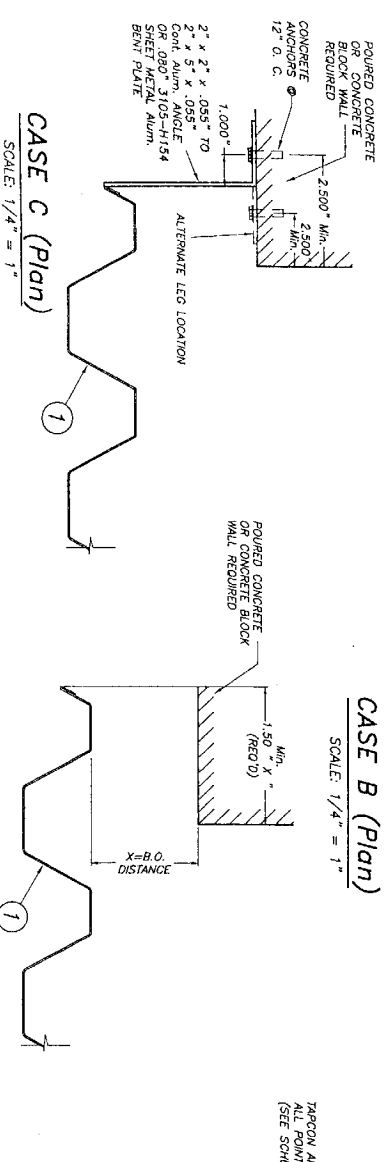
MAXIMUM DESIGN PRESSURE RATING "W" (P.S.F.) AND
CORRESPONDING MAXIMUM PANEL LENGTH "L" (FT.) SCHEDULE

MAXIMUM DESIGN PRESSURE RATING W (P.S.F.)	MAX. PANEL LENGTH L (FT.) 24 GAGE STEEL		
	MOUNTING W/O "N" HEADER (2)	MOUNTING W/ "N" HEADER (2)	MOUNTING W/ "N" HEADER (2) & (13)
+35.0, -40.0	9'-8"	9'-8"	9'-8"
+40.0, -45.0	9'-2"	9'-2"	9'-2"
+45.0, -50.0	8'-9"	8'-9"	8'-9"
+50.0, -55.0	8'-4"	8'-4"	8'-4"
+60.0, -65.0	7'-8"	7'-2"	7'-8"
+70.0, -80.0	7'-2"	6'-3"	7'-2"

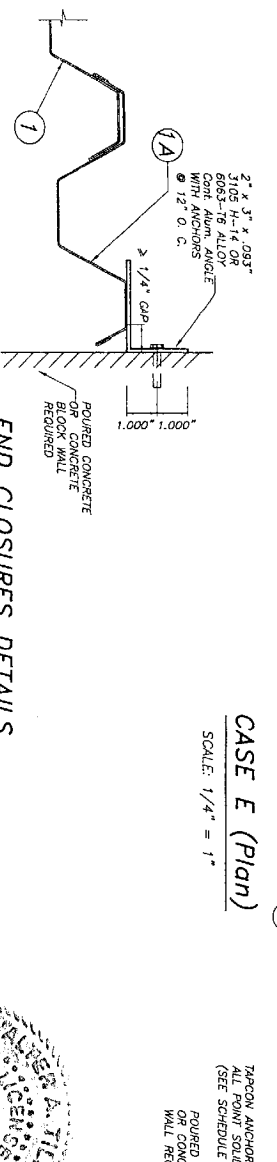
NOTE: MINIMUM PANEL LENGTH IS 3'-0".



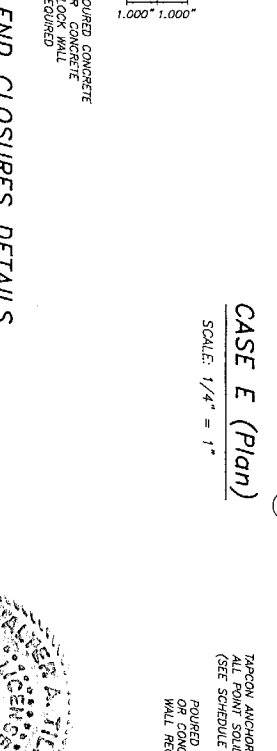
CASE A (Plan)
SCALE: 1/4" = 1"



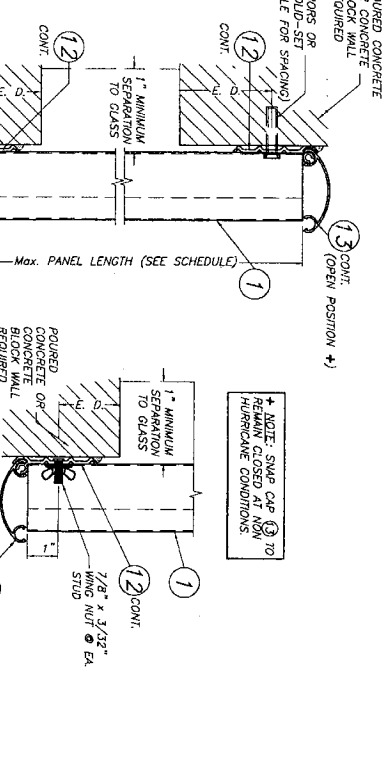
CASE B (Plan)
SCALE: 1/4" = 1"



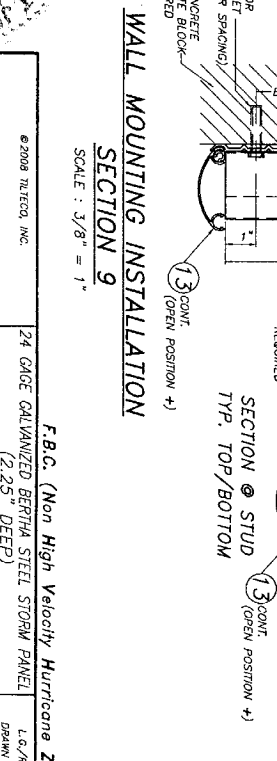
CASE C (Plan)
SCALE: 1/4" = 1"



CASE D (Plan)
SCALE: 1/4" = 1"

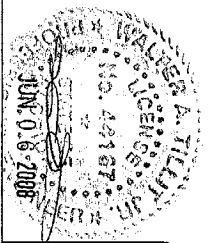


CASE E (Plan)
SCALE: 1/4" = 1"



SECTION 9
SCALE: 3/8" = 1"

F.B.C. (Non High Velocity Hurricane Zone)
24 GAGE GALVANIZED BERTHA STEEL STORM PANEL
(2.25" DEEP)



TITLICO INC.
TITLIT TESTING & ENGINEERING COMPANY
4355 N.W. 35th St., 2ND FLOOR, MIAMI, FL 33148
Phone: (305) 551-1111 FAX: (305) 551-1111
WALTER A. TILLER, P.E.
RESIDENCE: EB-0006719
FEDERAL ID: 451152

EASTERN METAL SUPPLY, INC.
4268 WEST ROADS DRIVE
WEST PALM BEACH, FL 33409
PHONE: (561) 729-8283 FAX: (561) 841-1716

REV.	NO.	DESCRIPTION	DATE	BY	CHECKED
1	1	QAD 05-271	5/12/08	7	

DRAWING NO. 08-142
DATE: 05/12/08
SHEET 4 OF 4

END CLOSURES DETAILS

THIS SCHEDULE INDICATES REQUIRED ANCHOR SPACING FROM EDGE LOAD AND PANEL LENGTH. HOWEVER, MAXIMUM PANEL LENGTH FOR A GIVEN DESIGN LOAD MUST BE VERIFIED AS PER SCHEDULE ON SHEET 4 OF 8.

MAXIMUM DESIGN PRESSURE RATING "W" (P.S.I.) AND CORRESPONDING MAXIMUM ANCHOR SPACING SCHEDULE FOR INSTALLATIONS INTO CONCRETE AND CONCRETE BLOCK STRUCTURES *

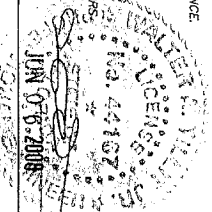
E. D. = EDGE DISTANCE

MAXIMUM DESIGN LOAD W (P.S.I.)	MAXIMUM ANCHORS SPACING FOR E. D. = 3 1/2" **												APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM	MAXIMUM PANEL COMBINATION LENGTH "L" (ft.)	
	TARCONS TO CONCRETE	ZMAG NAIL/ REB HD. DYNABOLT TO CONCRETE	CAK-IN TO CONCRETE	SOLID-SET TO CONCRETE	PANELMATES TO CONCRETE	CF TAP-GRIP TO CONCRETE	TO CONCRETE	TO CONCRETE	TO CONCRETE	TO CONCRETE	TO CONCRETE	TO CONCRETE			
+40.0 -45.0	12"	9"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	1 & 3 (TOP)	8'-0" OR LESS
	12"	9"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	1, 6 th (BOTTOM)	
	12"	9"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	2, 9 th (TOP)	
	12"	9"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	2 (BOTTOM)	
	12"	9"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	3 (BOTTOM)	
	12"	9"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	3 (BOTTOM)	
	12"	9"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	4 (TOP)	
	12"	9"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	4 (BOTTOM)	
	12"	9"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	5 (TOP/BOTTOM)	
	12"	9"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	7 (TOP)	
OR LESS	12"	9"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	6 (TOP)	
	12"	9"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	6 (BOTTOM)	
	12"	9"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	7 (BOTTOM)	
	12"	9"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	7 (BOTTOM)	
	12"	9"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	8 (TOP)	
	12"	9"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	8 (BOTTOM)	
	12"	9"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	9 (TOP)	
	12"	9"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	9 (BOTTOM)	
	12"	9"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	10 (TOP)	
	12"	9"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	11 1/2" (TOP)	

MAXIMUM DESIGN LOAD W (P.S.I.)	MAXIMUM ANCHORS SPACING FOR E. D. = 3 1/2" **												APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM	MAXIMUM PANEL COMBINATION LENGTH "L" (ft.)	
	TARCONS TO CONCRETE	ZMAG NAIL/ REB HD. DYNABOLT TO CONCRETE	CAK-IN TO CONCRETE	SOLID-SET TO CONCRETE	PANELMATES TO CONCRETE	CF TAP-GRIP TO CONCRETE	TO CONCRETE	TO CONCRETE	TO CONCRETE	TO CONCRETE	TO CONCRETE	TO CONCRETE			
+40.0 -45.0	12"	6"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	1 & 3 (TOP)	8'-0" OR LESS
	12"	6"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	1, 6 th (BOTTOM)	
	12"	6"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	2, 9 th (TOP)	
	12"	6"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	2 (BOTTOM)	
	12"	6"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	3 (BOTTOM)	
	12"	6"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	3 (BOTTOM)	
	12"	6"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	4 (TOP)	
	12"	6"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	4 (BOTTOM)	
	12"	6"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	5 (TOP/BOTTOM)	
	12"	6"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	7 (TOP)	
OR LESS	12"	6"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	6 (TOP)	
	12"	6"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	6 (BOTTOM)	
	12"	6"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	7 (BOTTOM)	
	12"	6"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	7 (BOTTOM)	
	12"	6"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	8 (TOP)	
	12"	6"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	8 (BOTTOM)	
	12"	6"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	9 (TOP)	
	12"	6"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	9 (BOTTOM)	
	12"	6"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	10 (TOP)	
	12"	6"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	11 1/2" (TOP)	

* ONLY TARCON ANCHORS OR ALL POINT SOLID-SET ALLOWED FOR MOUNTING SECTION 5.
 ** ANCHORS SPACING ONLY APPLICABLE TO ZMAG NAIL ANCHORS FOR INSTALLATIONS INTO WOOD FRAME BUILDINGS.
 *** SEE SHEET 7 & 8 OF 8 FOR ANCHORS TYPE & SPACING

MAXIMUM ANCHOR SPACINGS ARE VALID 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 FOLLOWING FACTORS (MIN. E. D. FOR CAK-IN ANCHORS & ETD ANCHORS):
 1.0 FOR SOLID-SET ANCHORS
 1.1 FOR CAK-IN ANCHORS
 1.2 FOR ETD ANCHORS
 FROM APPLYING ABOVE FACTORS REDUCED SPACINGS RESULTING SHALL NOT RESULT ON SPACINGS LESS THAN 3" FOR ALL ANCHORS. (EXCEPT +4.5" FOR REB HD. DYNABOLT ANCHORS).



TILECO INC.
 24 GAGE GALVANIZED BERRH STEEL STORM PANEL (2.25" DEEP)
 4288 WEST FIELDS DRIVE
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 TOLL FREE: (800) 521-5151
 E-mail: sales@tileco.com
 Website: www.tileco.com

EASTERN METAL SUPPLY, INC.
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 TOLL FREE: (800) 521-5151
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 Website: www.tileco.com

DATE: 05/12/08
 DRAWING NO: 08-142
 SHEET 5 OF 5

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

THIS SCHEDULE INDICATES REQUIRED ANCHOR SPACING FOR A GIVEN DESIGN LOAD AND PANEL LENGTH. HOWEVER, ANCHOR SPACING MUST BE LESS THAN OR EQUAL TO THE MAXIMUM ANCHOR SPACING INDICATED ON SHEET # 4 OF 8.

MAXIMUM DESIGN LOAD W (p.s.f.)	MAXIMUM ANCHORS SPACING FOR E. D. = 3 1/2" **																	
	TAPCONS		Z-MAC NAILING / RED HD. DYWIDAG		CALK-IN		SOLID-SET		PANELMATS		OF TAP-Grip		APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH L (ft.)				
	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY						
>+50.0-55.0	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"			12"	12"	12"	12"
+20.0-50.0	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
+20.0-50.0	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"

E. D. = EDGE DISTANCE

MAXIMUM DESIGN LOAD W (p.s.f.)	MAXIMUM ANCHORS SPACING FOR E. D. = 3 1/2" **																	
	TAPCONS		Z-MAC NAILING / RED HD. DYWIDAG		CALK-IN		SOLID-SET		PANELMATS		OF TAP-Grip		APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH L (ft.)				
	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY						
>+50.0-55.0	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"			12"	12"	12"	12"
TO	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"

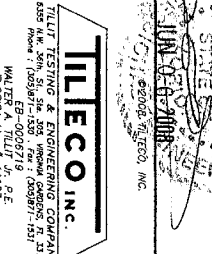
MAXIMUM DESIGN LOAD W (p.s.f.)	MAXIMUM ANCHORS SPACING FOR E. D. = 3 1/2" **																	
	TAPCONS		Z-MAC NAILING / RED HD. DYWIDAG		CALK-IN		SOLID-SET		PANELMATS		OF TAP-Grip		APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH L (ft.)				
	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY						
>+50.0-55.0	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"			12"	12"	12"	12"
+20.0-50.0	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
TO	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"

ONLY TAPCON ANCHORS OR ALL POINT SOLID-SET ALLOWED FOR MOUNTING SECTION 9.

ANCHORS SPACING ONLY VALID FOR Z-MAC NAIL ANCHORS.

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

MAXIMUM ANCHOR SPACINGS ARE VALID FOR 3 1/2" EDGE DISTANCE FOR E. D. LESS THAN 3 1/2". REDUCE ANCHOR SPACING BY MULTIPLYING SPACING SHOWN ON SCHEDULE BY THE FOLLOWING FACTORS. (MIN. E. D. FOR CALK-IN ANCHORS & E/D FOR THIS OPERATION IS 2 1/2" AND 3 1/2" FOR SOLID-SET ANCHORS) FACTORS SHALL NOT RESULT IN SPACINGS LESS THAN 3" FOR ALL ANCHORS (EXCEPT 4.5" FOR RED HD. DYWIDAG ANCHORS).



F.B.C. (Non High Velocity Hurricane Zone) 24 GAGE GALVANIZED BERTHA STEEL STORM PANEL (2.25" DEEP)

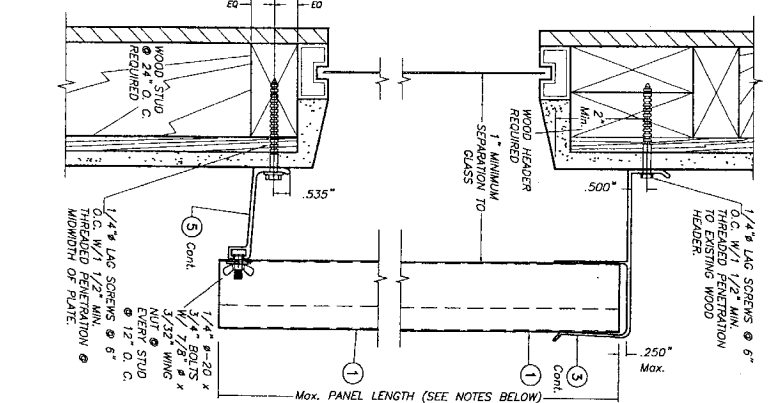
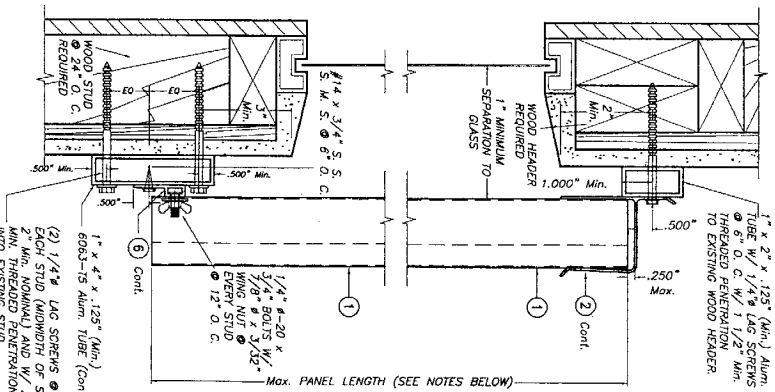
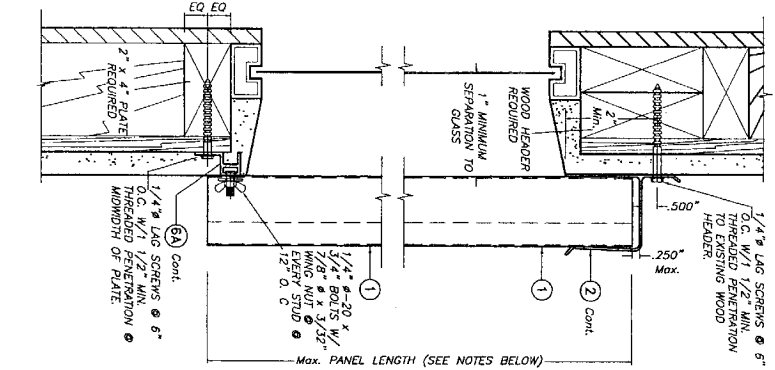
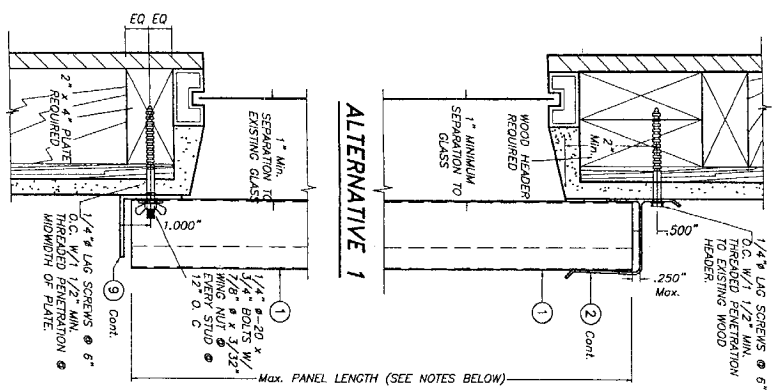
EASTERN METAL SUPPLY, INC.

4228 WES. FIELDS DRIVE
 WYCKOFF, NJ 07481
 PHONE: (908) 239-5252 FAX: (908) 239-1718

08-142 DRAWING No

ACTUAL E. D.	TAPCON	Z-MAC NAILING / ANCHORS	CALK-IN	SOLID-SET	OF TAP-Grip
3"	-	.86	.75	.78	1.00
2 1/2"	-	.71	.50	-	.80
2"	-	.50	-	-	-
1 1/2"	.35	-	-	-	-

SHEET 6 OF 8



NOTE FOR COMBINATION OF SECTIONS:
WALL MOUNTING SECTIONS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.

SCALE: 1/4" = 1"

WALL MOUNTING INSTALLATIONS
SECTIONS A

INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS

- NOTES:**
1. INSTALLATIONS ARE ONLY VALID FOR DESIGN WIND LOADS UP TO +60.0 -83.0 PSF AND PANEL'S LENGTHS UP TO 7'-8".
 2. FOR WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE NO. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.

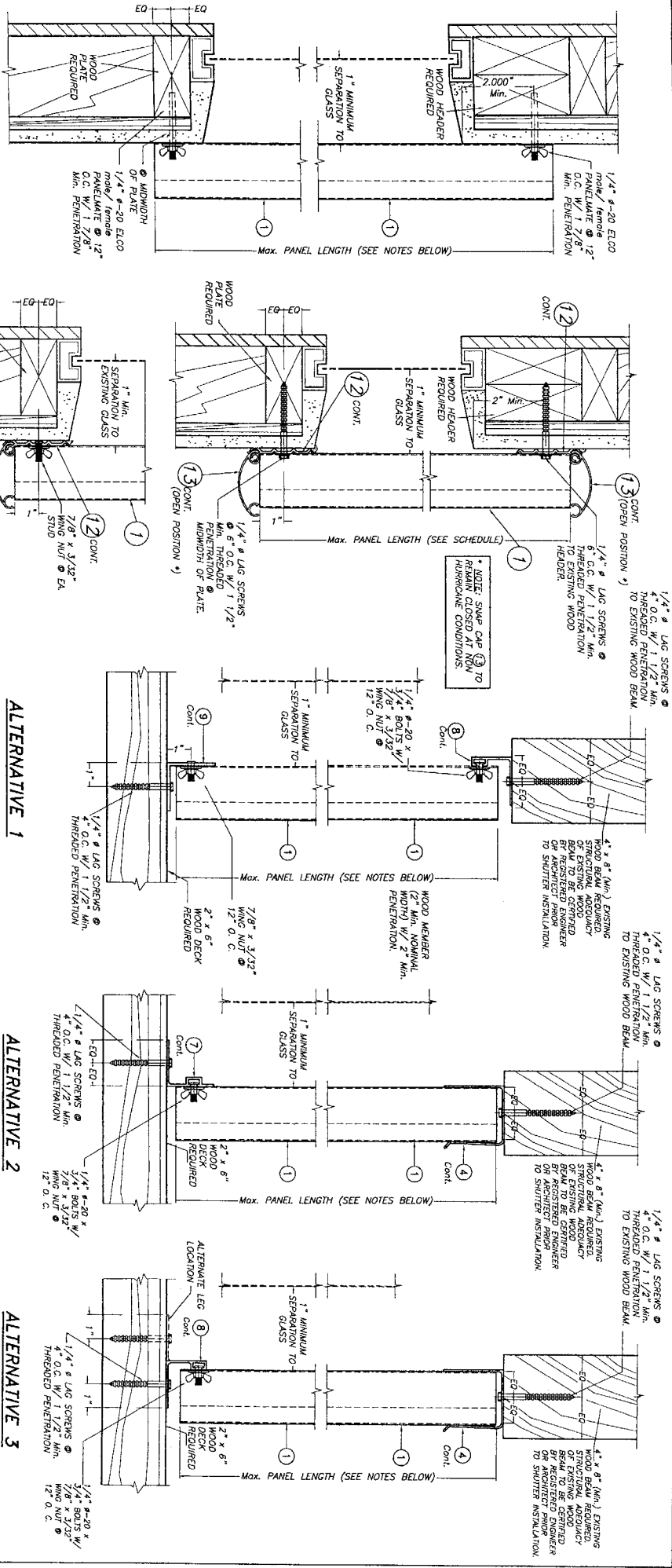


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TITLITESTING & ENGINEERING COMPANY
WALTER A. TITLIT, Jr., P.E.
LEONARD, L.S., P.E.

F.B.C. (Non High Velocity Hurricane Zone)
24 GAUGE GALVANIZED BERRHA STEEL STORM PANEL
(2.25" DEEP)

EASTERN METAL SUPPLY, INC.
4888 WEST BOKOS DRIVE
WEST PALM BEACH, FL 33407
PHONE: (561) 208-8553 FAX: (561) 941-1718

L.S./M.E.
DRAWN BY: 09/12/08
DATE: 08-142
DRAWING NO.
SHEET 7 OF 8



WALL MOUNTING INSTALLATION

SECTION A

SCALE: 1/4" = 1"

SECTION @ STUD TYP. TOP/BOTTOM

INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS

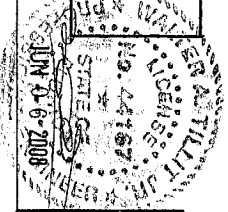
CEILING & FLOOR MOUNTING INSTALLATIONS

SECTIONS B

SCALE: 1/4" = 1"

NOTE FOR COMBINATION OF SECTIONS:
FLOOR/WALL/CEILING MOUNTING SECTIONS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.

- NOTES:
- INSTALLATIONS ARE ONLY VALID FOR DESIGN WIND LOADS UP TO +60' - 85.0 psf AND PANELS LENGTHS UP TO 7'-8".
 - FOR WOOD FRAME CONSTRUCTION, WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.



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WALTER A. TILLET, JR., P.E.
License No. 15819
Florida Lic. # 44187

F.B.C. (Non High Velocity Hurricane Zone)
24 GAGE GALVANIZED BERRHA STEEL STORM PANEL
(2.25" DEEP)

EASTERN METAL SUPPLY, INC.
4288 WEST ROAD DRIVE
WEST PALM BEACH, FL 33407
PHONE: (561) 759-8828, FAX: (561) 841-1716

REV.	DESCRIPTION	DATE	BY	CHECKED
1				
2				

L.C./R.E.
DRAWN BY: 05/12/08
DATE: 08-142
DRAWING NO.
SHEET 8 OF 8