GENERAL NOTES

(VALID FOR REGULAR, LIFE SAFETY & E-Z HANG STORM PANELS):

1. STORM PANEL SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2023 (8th EDITION) OF THE FLORIDA BUILDING CODE. THIS STORM PANEL SHALL NOT BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES (MIAMI-DADE / 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 STORM PANEL WILL BE INSTALLED, AND FOR A DIRECTIONALITY FACTOR KD=0.85, USING ASCE 7-22 AND SHALL NO EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 3, 9 THRU 12 & 17, 18.
   IN ORDER TO VERIRY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-22 SHALL BE FIRST REDUCED TO A.S.D. DESIGN PRESSURE RATING BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 3, 9 THRU 12 & 17, 18.
   IN ORDER TO VERIFY THAT 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. FASTENERS SPACING TO WOOD HAS BEEN DETERMINED IN ACCORDANCE WITH N.D.S. 2018.
   STORM PANEL'S ADEQUACY FOR IMPACT AND WIND RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1609.1.2 OF THE ABOVE MENTIONED CODE AS PER AMERICAN TEST LAB OF SOUTH FLORIDA REPORTS #0814.01-01 AND #0219.02-09, AS PER ASTM E 1996 & ASTM E 330 STANDARDS, AND AMERICAN TESTING LAB SOUTH FLORIDA REPORT #1123.01-10 AS PER TAS-201 AND TAS-203 PROTOCOLS, AND AS PER CALCULATIONS PERFORMED IN ACCORDANCE W/ SECTION 1604 OF THE FLORIDA BUILDING CODE.

2. ALL ALUMINUM EXTRUSIONS TO BE 6063-T6 ALLOY AND TEMPER. (UNLESS OTHERWISE NOTED). SEE SHEET 2. ALL ALUMINUM EXTRUSIONS IN CONTACT WITH DISSIMILAR METALS SHALL COMPLY WITH SECTION III-6 OF THE 2020 ALUMINUM DESIGN MANUAL.

3. ALL ALUMINUM SHEET METAL USED AT CLOSURES SHALL HAVE 3105-H14 ALLOY.

4. ALL STEEL SHEET METAL PANELS SHALL HAVE STRUCTURAL QUALITY STEEL, ASTM A-653 GRADE 80 MINIMUM, G-60 GALVANIZED STEEL DESIGNATION W/FY= 92.2 ksi (AFTER ROLLED).

5. ALL SCREWS ANCHORS TO BE STAINLESS STEEL 304 OR 316 AISI SERIES OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018 W/ MIN. 50 ksi YIELD STRENGTH AND MIN. 90 ksi TENSILE STRENGTH AND SHALL COMPLY W/ FLORIDA BUILDING CODE SECTION 2411.3.3.4.

6. BOLTS TO BE ASTM A-307 GALVANIZED STEEL, OR AISI 304 SERIES STAINLESS STEEL, WITH 36 ksi MINIMUM YIELD STRENGTH.

7. ANCHORS SHALL BE AS FOLLOWS AS PER SPECIFICATIONS ON SHEET 1A

8. PANELS MAY ALSO BE INSTALLED HORIZONTALLY FOLLOWING INSTALLATION DETAILS SHOWN ON SECTION 1 THROUGH 6 (SHEETS 4 THROUGH 5) EXCEPT THAT HEADERS ② & ⑧ SHALL NOT BE USED.

9. 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.

10. EACH REGULAR STORM PANEL WITH LENGTHS OVER 90", AS PER SECTIONS 1, 2, 4, 5, 6 AND ALTERNATIVES 1W, 3W & 4W ON SHEETS 4, 5, 6 & 7 RESPECTIVELY; SHALL HAVE A LEGIBLE AND READILY VISIBLE MARKING INSTRUCTING OWNER OR TENANT TO SECURE PANELS WITH APPLICABLE REINFORCEMENT DURING PERIODS OF HURRICANE WARNING.

11. THE INSTALLATION CONTRACTOR IS TO SEAL/CAULK ALL SHUTTER COMPONENT EDGES WHICH REMAIN IN CONTINUOUS CONTACT WITH THE BUILDING TO PREVENT WIND/RAIN INTRUSION.

12. STORM PANEL INSTALLATION SHALL COMPLY WITH SPECS INDICATED IN THIS DRAWING PLUS ANY BUILDING AND ZONING REGULATIONS PROVIDED BY THE JURISDICTION WHERE PERMIT IS APPLIED TO.

13. (a) THIS PRODUCT EVALUATION DOCUMENT (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 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 PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF MODIFIED.

    (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.

14. SHUTTER MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT STORM PANEL SHUTTER IN ACCORDANCE WITH SECTION 1709.9.2 OF FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABELING TO COMPLY WITH SECTION 1709.9.3 OF THE FLORIDA BUILDING CODE.

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

1/2/5/2023

P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

©2023 TILTECO, INC.

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, Fl. 33166
Phone : (305) 871-1530 . Fax : (305) 871-1531
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

24 GAGE GALVANIZED STEEL STORM PANEL

W.H — DRAWN BY:

GLOBAL PROTECTION PRODUCTS, LLC.
4800 S.W. 51 STREET
DAVIE, FL. 33314
PHONE: (954)689-7545, FAX: (954)689-8797

08/25/2023 — DATE:

23-193 — DRAWING No:

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-175	8/25/23	3		
2	NEW HILLMAN ANCHORS	11/6/23	4		

ANCHOR SCHEDULE *

ANCHOR NAME	MANUFACTURED BY:	ANCHOR DIMENSIONS	MIN. EMBEDMENT				MIN. E.D			
			CONCRETE	GROUT FILLED	HOLLOW BLOCK	WOOD	CONCRETE	GROUT FILLED	HOLLOW BLOCK	WOOD
TAPCON	I.T.W BUILDEX, INC.	1/4"Ø	1 3/4"	–	1 1/4"	1 1/2"	2 1/2"	–	2 1/2"	SEE NOTE 5
CALK–IN	DEWALT INC.	1/4"Ø x 7/8"	7/8"	–	7/8"	–	3"	–	3"	–
SOLID– SET	ALL POINT SCREW, BOLT & SPECIALTY CO.	1/4"Ø x 3/4"	7/8"	–	7/8"	–	3"	–	3"	–
PANELMATE FEMALE ID	ELCO CONSTRUCTION PRODUCTS	#14–10	2"	–	1 1/4"	1 7/8"	2 1/2"	–	3"	–
PANELMATE PLUS	ELCO CONSTRUCTION PRODUCTS	#14–10	2"	–	1 1/4"	1 7/8"	2 1/2"	–	3"	–
LAG SCREW	N.S.D	1/4"Ø	–	–	–	1 1/2"	–	–	–	SEE NOTE 5
SOLID SET 1/4" SCREW CS.	THE HILLMAN GROUP, INC.	1/4"Ø	1 3/4"	1 3/4"	1 1/4"	1 1/2"	3"	3"	3"	0.75"
SOLID SET #14 FEMALE ANCHOR CS.	THE HILLMAN GROUP, INC.	1/4"Ø	1 3/4"	1 3/4"	1 1/4"	1 1/2"	3"	3"	3"	0.75"
SOLID SET 1/4" SCREW 410 SS.	THE HILLMAN GROUP, INC.	1/4"Ø	1 3/4"	1 3/4"	1 1/4"	1 1/2"	3"	3"	3"	0.75"
SOLID SET #14 MALE ANCHOR CS.	THE HILLMAN GROUP, INC.	1/4"Ø	1 3/4"	1 3/4"	1 1/4"	1 1/2"	3"	3"	3"	0.75"
SOLID SET #14 MALE ANCHOR 304 SS.	THE HILLMAN GROUP, INC.	1/4"Ø	1 3/4"	1 3/4"	1 1/4"	1 1/2"	3"	3"	3"	0.75"

* NOTES:

1. CONCRETE TO BE:
   3192 psi FOR: TAPCON

   3000 Psi FOR: ALL POINT SOLID SET/ CALK–IN / THE HILLMAN SOLID SET SCREW CS / THE HILLMAN SOLID SET FEMALE CS /THE HILLMAN SOLID SET SCREW 410 SS/ THE HILLMAN SOLID SET MALE CS / THE HILLMAN SOLID SET MALE 304 SS

   3350 psi FOR: ELCO PANELMATE FEMALE/ ELCO PANELMATE PLUS

2. HOLLOW BLOCK & GROUT BLOCK TO BE ASTM C–90

3. WOOD TO BE SOUTHERN PINE #2 W/ G=0.55

4. ALL CARBON STEEL CREW ANCHORS SHALL BE SAE 1022 PER SAE J1933. ALL STAINLESS STEEL SCREW ANCHORS SHALL BE SERIES 410 OR SERIES 304 AS SPECIFIED HEREIN. CARBON STEEL SCREWS SHALL HAVE THE FOLLOWING CORROSION–PROTECTIVE COATINGS:

   BASE COAT: GALVANIZED
   TOP COAT: ORGANIC COATING (COLOR MAY VARY)
   SEE GENERAL NOTE 5 ON SHEET 1.

5. AS SHOWN ON SHEETS 6, 7, 15, 16 & 18.

6. ALL 1/4"Ø–20 SCREWS (HEADED OR ALL THREADED) USED WITH 7/8" CALK–IN & ALL POINT 3/4" SOLID SET ANCHORS SHALL BE FULLY ENGAGED INTO ANCHOR EMBEDMENT OF ANCHORS SHALL NOT INCLUDE STUCCO OR ANY FINISH.

7. E.D & EMBEDMENT FOR CONCRETE & MASONRY ANCHORS ARE MEASURED BEYOND ANY FINISH. IN CASE THAT PRECAST STONE, PRECAST CONCRETE PANELS, PAVERS, STUCCO OR WOOD BOARDS BE FOUND ON THE EXISTING WALL OR FLOOR, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS.

8. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE ANCHOR MANUFACTURER'S SPECIFICATIONS & INSTRUCTIONS.

9. ALL GROUT SHALL BE MIN. f'c=2ksi.

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

©2023 TILTECO, INC.

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, Fl. 33166
Phone : (305) 871–1530 . Fax : (305) 871–1531
e–mail: tilteco@aol.com
CA–0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

24 GAGE GALVANIZED STEEL STORM PANEL

W.H DRAWN BY:

GLOBAL PROTECTION PRODUCTS, LLC.
4800 S.W. 51 STREET
DAVIE, FL. 33314
PHONE: (954)689–7545, FAX: (954)689–8797

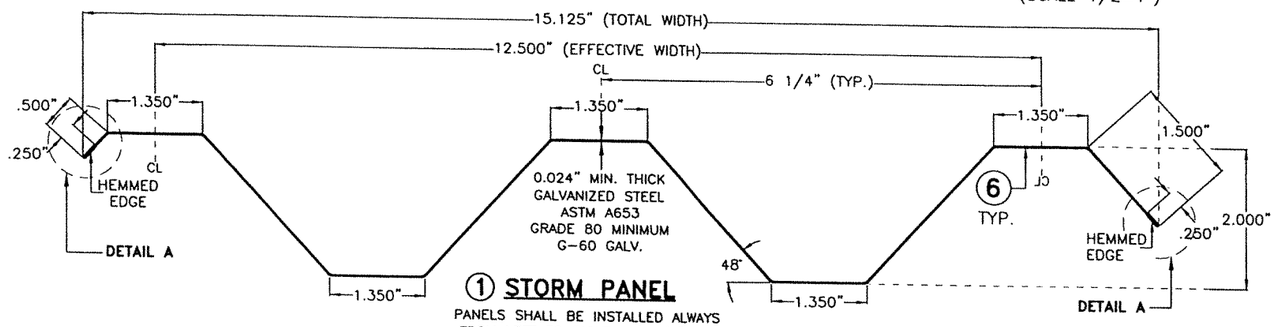
08/25/2023 DATE:

23–193 DRAWING No:

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20–175	8/25/23	3		
2	NEW HILLMAN ANCHORS	11/6/23	4		

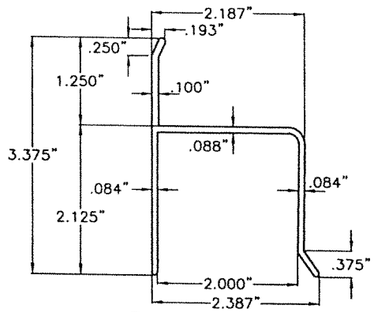
COMPONENTS FOR REGULAR, LIFE SAFETY & E-Z HANG STORM PANEL SYSTEMS

(SCALE 1/2=1")

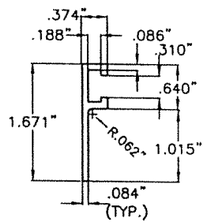


① STORM PANEL

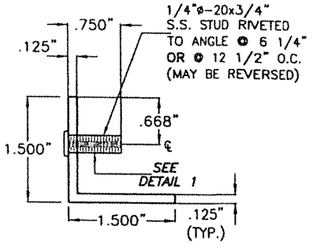
PANELS SHALL BE INSTALLED ALWAYS FROM LEFT TO RIGHT W/ 1/2" LEG AT END AT LEFT SIDE OF PANEL



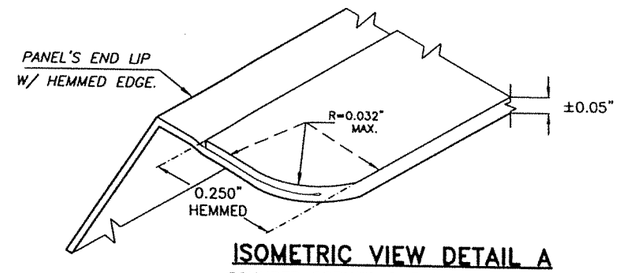
② "H" HEADER



③ "F" TRACK

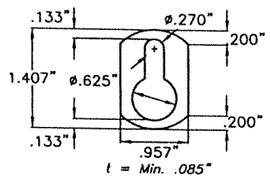


④ ANGLE WITH STUD



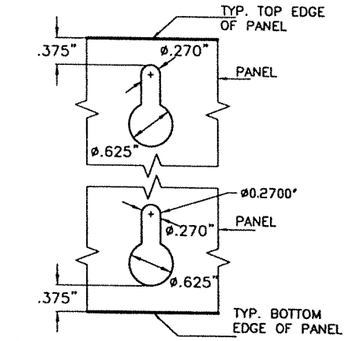
ISOMETRIC VIEW DETAIL A

ROUNDED CORNER @ ENDS OF PANEL'S END LIP W/ HEMMED EDGE. (N.T.S)

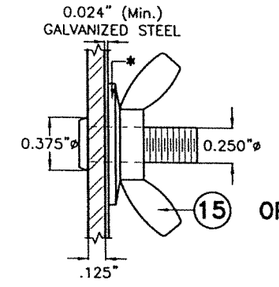


⑤ KEY HOLE WASHER

3105-H154 ALUM. ALLOY

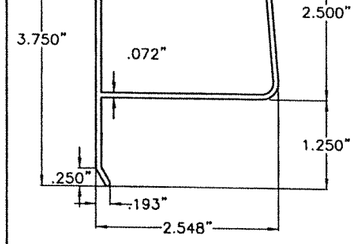


⑥ KEY HOLE AT PANEL

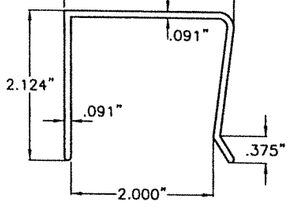


⑮ OR ⑮A

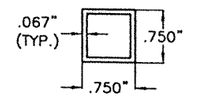
DETAIL 1



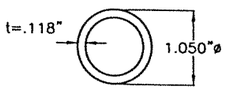
⑦ REV. "H" HEADER



⑧ "U" HEADER

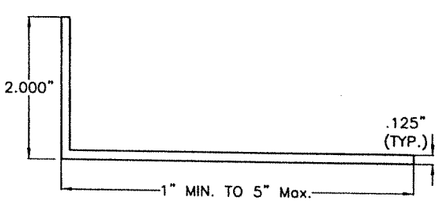


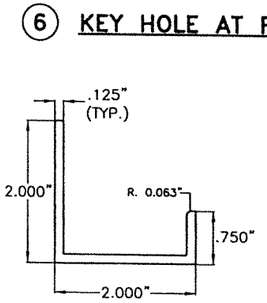
⑨ SLEEVE 2 1/8" MAX. LENGTH



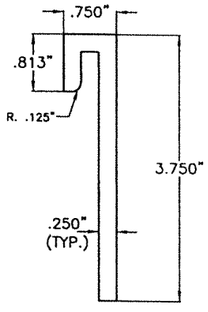
⑨A SLEEVE 1" MAX. LENGTH *

6061-T6 ALLOY





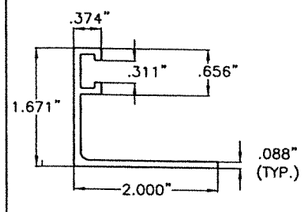
⑪ "J" TRACK



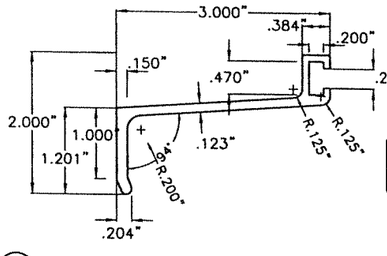
⑫ PANEL HANGER (1 1/4" WIDE)

(USE ONLY FOR E-Z HANG STORM PANEL SYSTEM) 6063-T6 ALUM. ALLOY

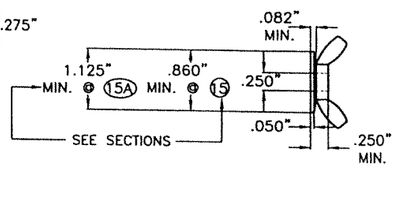
* SEE SHEET 6 FOR ADDITIONAL LIMITATIONS IF SLEEVE LENGTH IS 1 ½", ONLY VALID FOR INSTALLATIONS INTO WOOD STRUCTURES.



⑬ BUILD-OUT "F" TRACK ANGLE



⑭ BUILD-OUT "F" TRACK



⑮ & ⑮A WASHERED WINGNUT

(ZAMAC 3 ALLOY)

⑩ ANGLE

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

©2023 TILTECO, INC.

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305) 871-1530 . Fax : (305) 871-1531
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

24 GAGE GALVANIZED STEEL STORM PANEL

GLOBAL PROTECTION PRODUCTS, LLC.
4800 S.W. 51 STREET
DAVIE, FL. 33314
PHONE: (954)689-7545, FAX: (954)689-8797

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-175	8/25/23	3		
2	NEW HILLMAN ANCHORS	11/6/23	4		

W.H DRAWN BY:
08/25/2023 DATE:
23-193 DRAWING No:
SHEET 2 OF 18

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) AND CORRESPONDING MAXIMUM SINGLE PANEL ① LENGTH "L" SCHEDULE ONLY FOR REGULAR STORM PANELS INSTALLATION INTO POURED CONCRETE, CONCRETE BLOCK & WOOD (†)

SINGLE PANELS ① UNRESTRAINED AT TOP OR BOTTOM WITH TRACKS ② OR ⑧ *

MAXIMUM PANEL LENGTH "L+" OR "L−" (ft.) Ω		
MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) (+ or −)	CONCRETE & WOOD INSTALLATIONS †	
	L+	L−
20.0	12'−0"	12'−0"
25.0	12'−0"	11'−8"
30.0	11'−8"	10'−9"
35.0	10'−10"	10'−0"
40.0	10'−1"	9'−4"
45.0	9'−6"	8'−9"
50.0	9'−1"	8'−4"
55.0	8'−7"	8'−0"
60.0	8'−3"	7'−7"
65.0	8'−0"	7'−4"
70.0	7'−8"	7'−0"
75.0	7'−5"	6'−10"
80.0	7'−2"	6'−7"
85.0	7'−0"	6'−5"
90.0	6'−9"	6'−2"
95.0	6'−9"	6'−0"
100.0	6'−5"	5'−11"
105.0	6'−3"	5'−9"
110.0	–	5'−7"
115.0	–	5'−6"
119.6	–	5'−5"

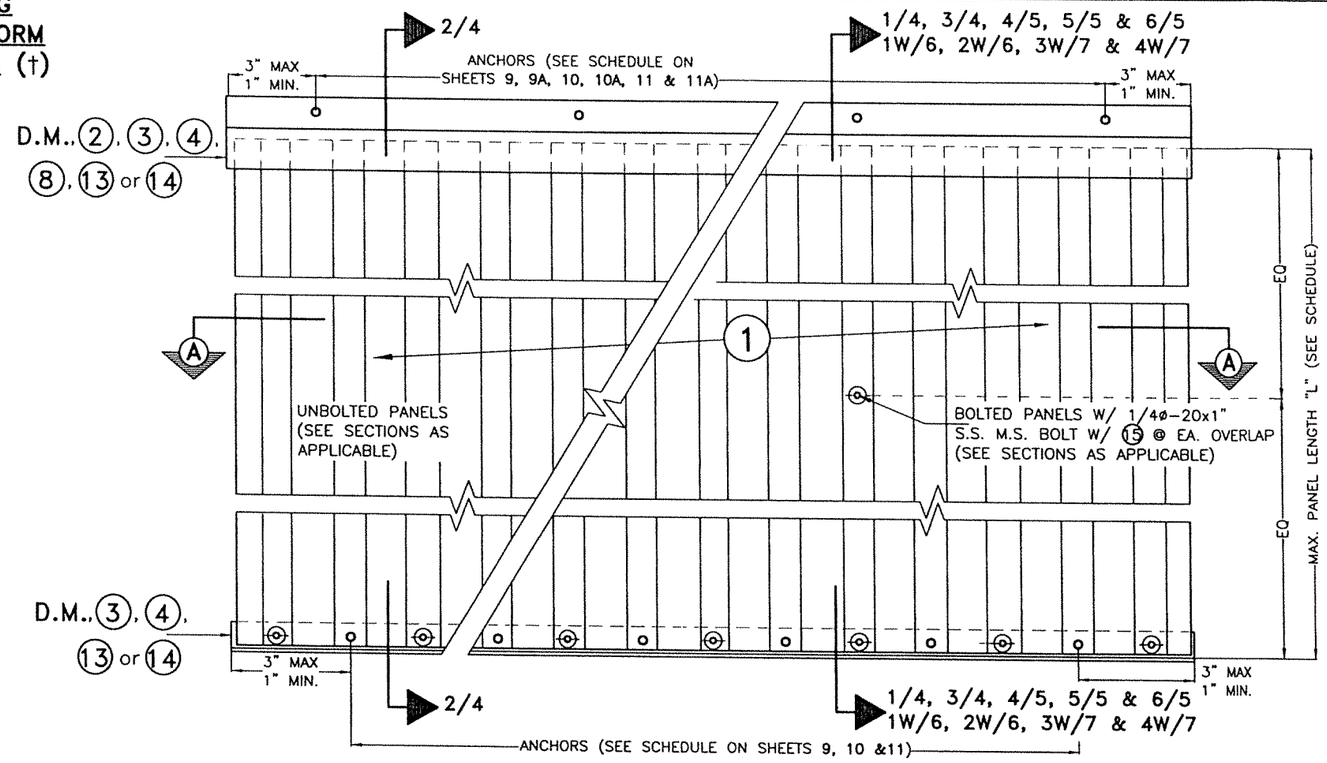
SINGLE PANELS ① RESTRAINED AT EACH END WITH TRACKS ③, ④, ⑬ & ⑭ OR DIRECT MOUNTED AT EACH END*

MAXIMUM PANEL LENGTH "L+" OR "L−" (ft.) Ω		
MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) (+ or −)	CONCRETE & WOOD INSTALLATIONS †	
	L+	L−
20.0	14'−4"	13'−0"
25.0	12'−10"	11'−7"
30.0	11'−8"	10'−7"
35.0	10'−10"	9'−9"
40.0	9'−6"	9'−2"
45.0	9'−1"	8'−7"
50.0	8'−7"	8'−2"
55.0	8'−3"	7'−9"
60.0	8'−0"	7'−5"
65.0	7'−8"	7'−2"
70.0	7'−5"	6'−11"
75.0	7'−2"	6'−8"
80.0	7'−0"	6'−5"
85.0	7−0"	6'−3"
90.0	6'−9"	6'−1"
95.0	6'−7"	5'−10"
100.0	6'−3"	5'−7"
105.0	6'−3"	5'−4"
110.0	–	5'−1"
115.0	–	4'−10"
119.6	–	4'−8"

MAXIMUM PANEL LENGTH (in)	MINIMUM SEPARATION TO GLASS SCHEDULE			
	WIND SPEED ≤ 170 m.p.h		WIND SPEED > 170 m.p.h	
	UNRESTRAINED	RESTRAINED	UNRESTRAINED	RESTRAINED
30 OR LESS	1"	1"	6"	6 1/4"
>33 TO 90	1"	1"	7 1/2"	7 1/2"
>90 TO 145	1"	1"	7 1/2"	7 1/2"
>145 TO 168.33	1"	1"	–	7 1/2"

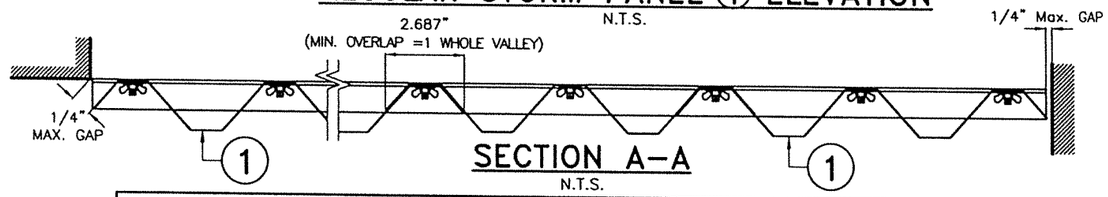
MINIMUM PANEL LENGTH (in) FOR A GIVEN MOUNTING CONDITION

BOTTOM \ TOP		DIRECT MOUNT	"h" HEADER	"U" HEADER	1.5"X1.5" STUD ANGLE	"F" TRACK	BUILD-OUT "F" TRACK ANGLE W/SIDE CLOSURES	BUILD-OUT "F" TRACK W/SIDE CLOSURES
–	DIRECT MOUNT	46"	32"	32"	35"	55"	50"	50"
④	1.5"X1.5" STUD ANGLE	35"	32"	32"	32"	42"	38"	38"
③	"F" TRACK	55"	32"	32"	42"	67"	60"	60"
⑬	BUILD-OUT "F" TRACK ANGLE W/ SIDE CLOSURES	50"	32"	32"	38"	60"	56"	56"
⑭	BUILD-OUT "F" TRACK W/ SIDE CLOSURES	50"	32"	32"	38"	60"	56"	56"



REGULAR STORM PANEL ① ELEVATION

N.T.S.



SECTION A−A

N.T.S.

NOTES:

Ω(1) L+: MAXIMUM ALLOWABLE PANEL LENGTH FOR A GIVEN POSITIVE A.S.D. DESIGN LOAD.
L−: MAX. ALLOWABLE PANEL LENGTH FOR A GIVEN NEGATIVE A.S.D. DESIGN LOAD.

(2) PROCEDURE TO DETERMINE MAXIMUM PANEL LENGTH:
GIVEN A POSITIVE A.S.D. DESIGN LOAD, DETERMINE MAXIMUM PANEL LENGTH "L+" FROM SCHEDULE.
GIVEN A NEGATIVE A.S.D. DESIGN LOAD, DETERMINE MAXIMUM PANEL LENGTH "L−" FROM SCHEDULE.
FINAL MAXIMUM ALLOWABLE PANEL LENGTH IS EQUAL TO THE MINIMUM DETERMINED PANEL LENGTH BETWEEN "L+" AND "L−".

(3) SEE SCHEDULE BELOW FOR MIN. PANEL LENGTH FOR POROSITY QUALIFICATION.

† INSTALLATIONS INTO WOOD ARE LIMITED TO ± 95 p.s.f. MAX. A.S.D. DESIGN PRESSURE RATING

* SEE SHEETS 9, 9A, 10, 10A, 11 & 11A FOR MAX. A.S.D. DESIGN LOADS & MAX. PANEL LENGTHS FOR SECTION 6/5 WHEN SPACER ⑨A IS USED.

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

P.E. SEAL/SIGNATURE/DATE

©2023 TILTECO, INC.

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL. 33166
Phone : (305) 871−1530 . Fax : (305) 871−1531
e−mail: tilteco@aol.com
CA−0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

24 GAGE GALVANIZED STEEL STORM PANEL

GLOBAL PROTECTION PRODUCTS, LLC.
4800 S.W. 51 STREET
DAVIE, FL. 33314
PHONE: (954)689−7545, FAX: (954)689−8797

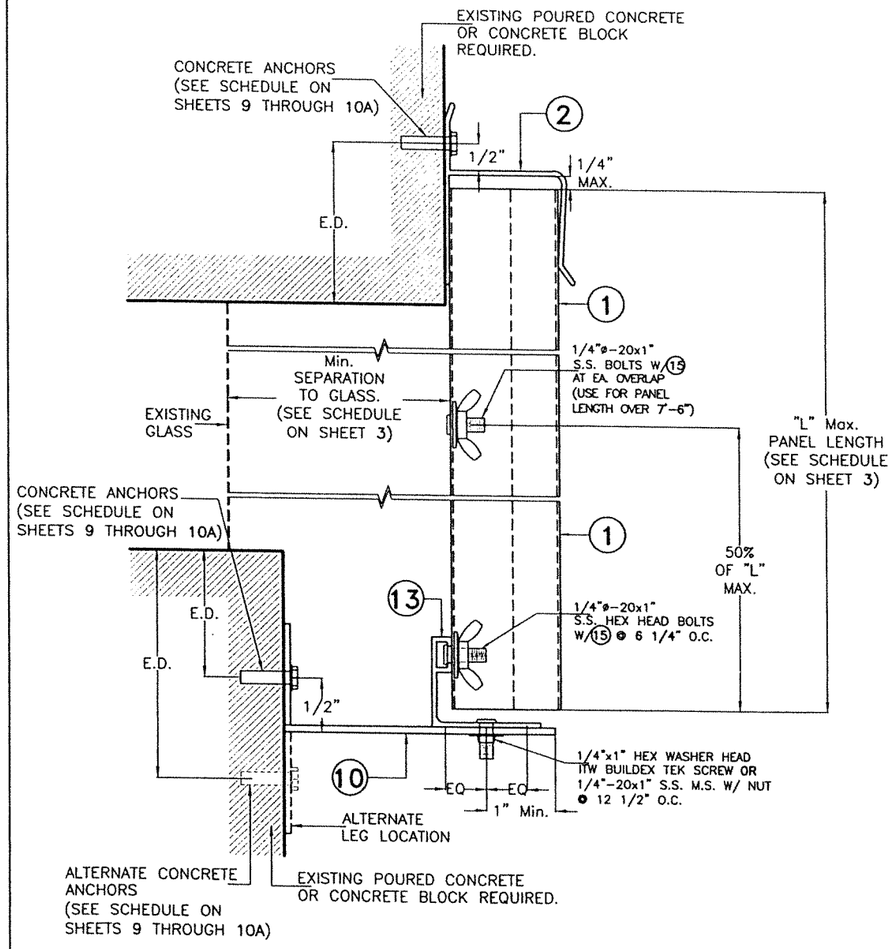
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20−175	8/25/23	3		
2	NEW HILLMAN ANCHORS	11/6/23	4		

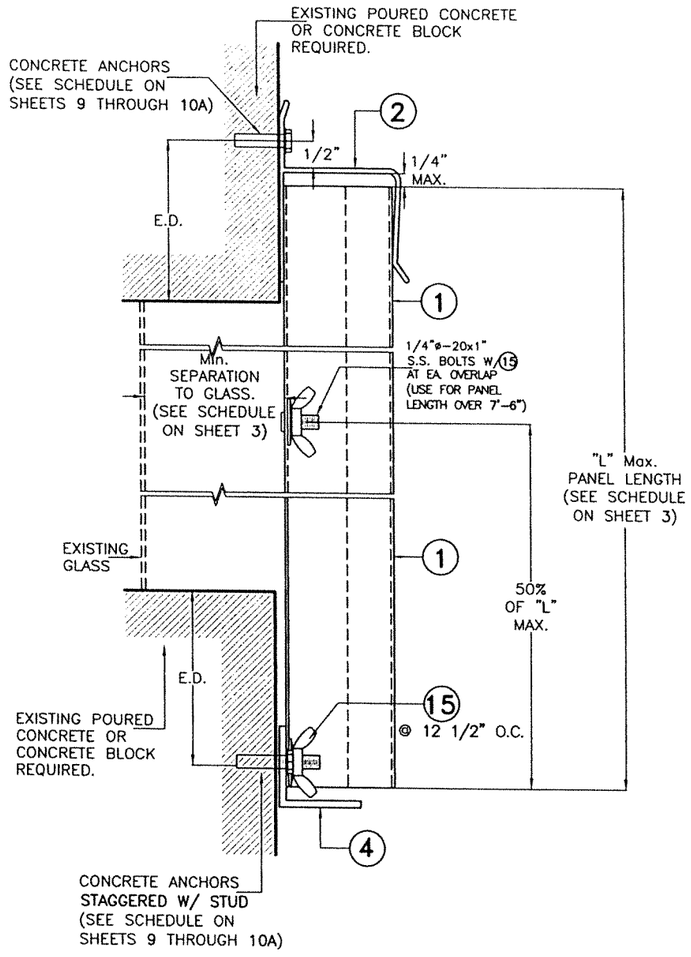
W.H
DRAWN BY:

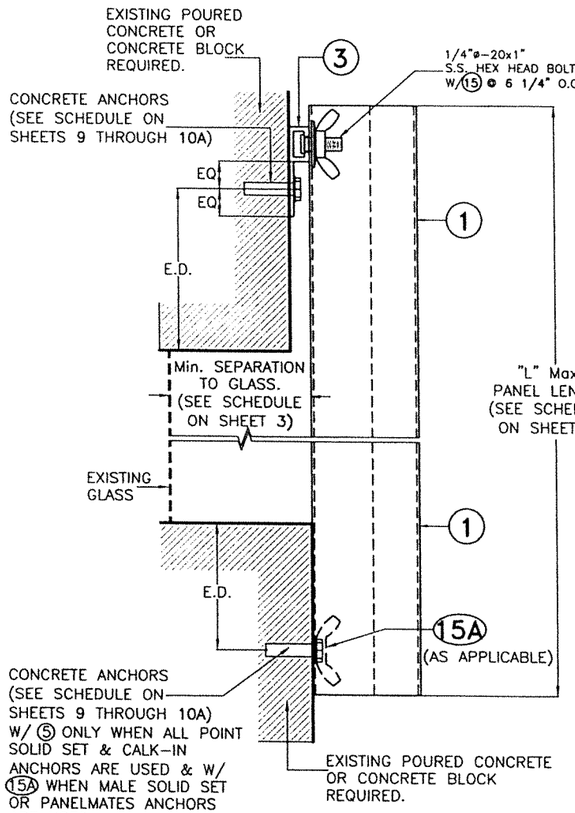
08/25/2023
DATE:

23−193
DRAWING No:

INSTALLATION DETAILS FOR REGULAR PANEL (1)
INTO POURED CONCRETE OR CONCRETE BLOCK STRUCTURES







BUILD-OUT MOUNTING
SECTION 1
SCALE 3/8=1"

WALL MOUNTING
SECTION 2
SCALE 3/8=1"

WALL MOUNTING / DIRECT MOUNT
SECTION 3
SCALE 3/8=1"

E.D. = EDGE DISTANCE(SEE SCHEDULE ON SHEETS 1A, 9, 9A, 10 & 10A)

NOTE FOR COMBINATION OF SECTIONS:

TOP & BOTTOM MOUNTINGS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

P.E. SEAL/SIGNATURE/DATE 4/5/2023

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

©2023 TILTECO, INC.

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305) 871-1530 . Fax : (305) 871-1531
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

24 GAGE GALVANIZED STEEL STORM PANEL

GLOBAL PROTECTION PRODUCTS, LLC.
4800 S.W. 51 STREET
DAVIE, FL. 33314
PHONE: (954)689-7545, FAX: (954)689-8797

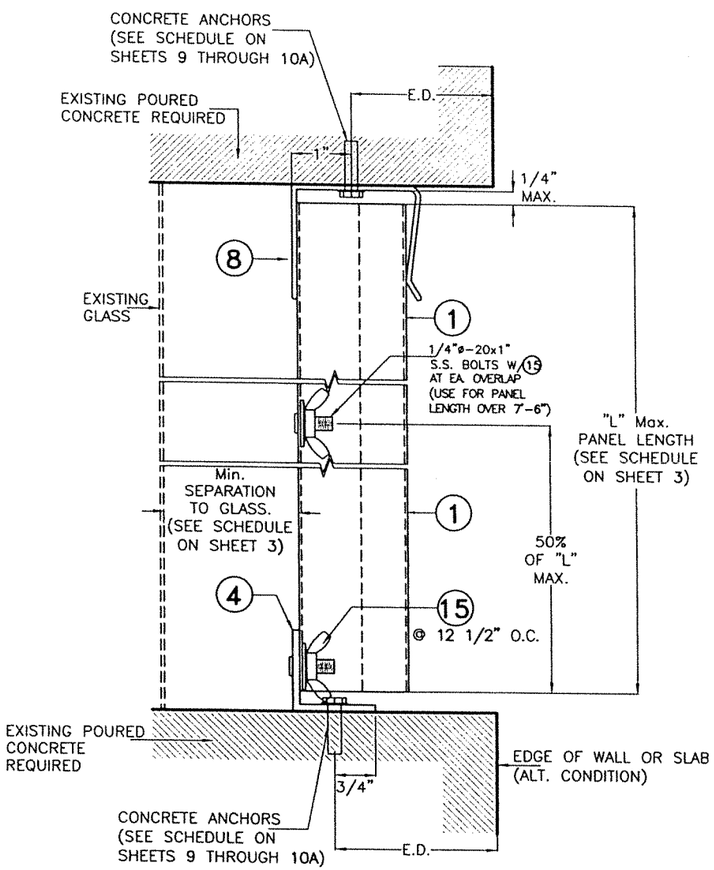
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-175	8/25/23	3		
2	NEW HILLMAN ANCHORS	11/6/23	4		

W.H
DRAWN BY:

08/25/2023
DATE:

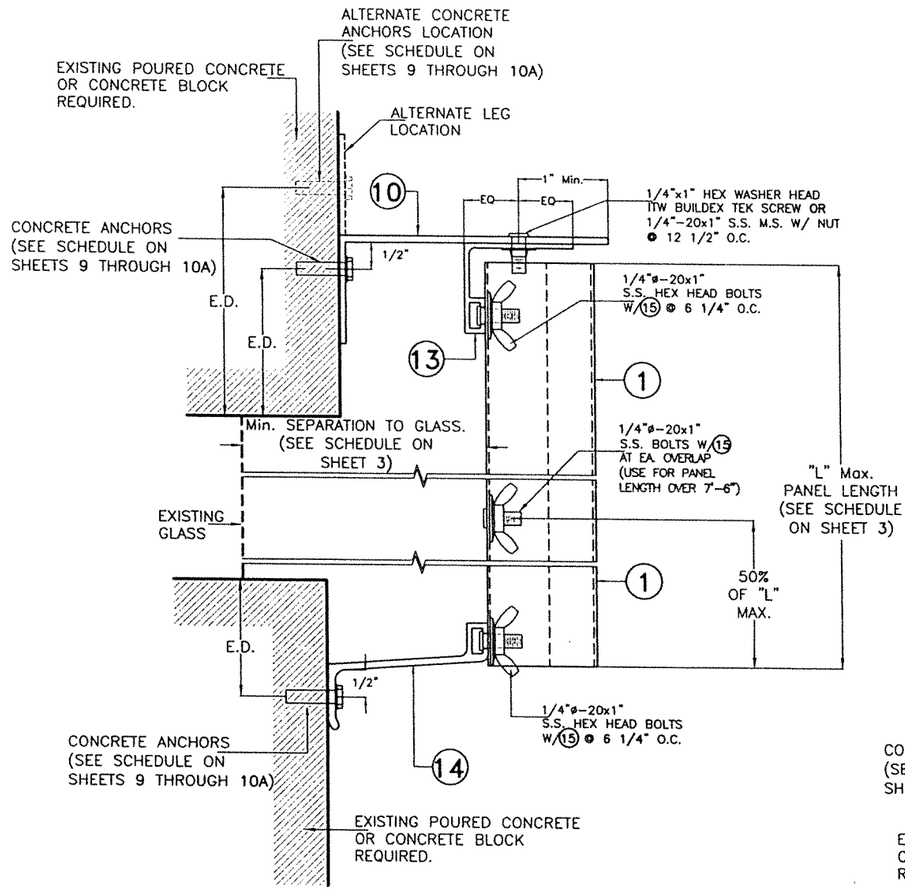
23-193
DRAWING No:

INSTALLATION DETAILS FOR REGULAR PANEL (1) INTO POURED CONCRETE OR CONCRETE BLOCK STRUCTURES



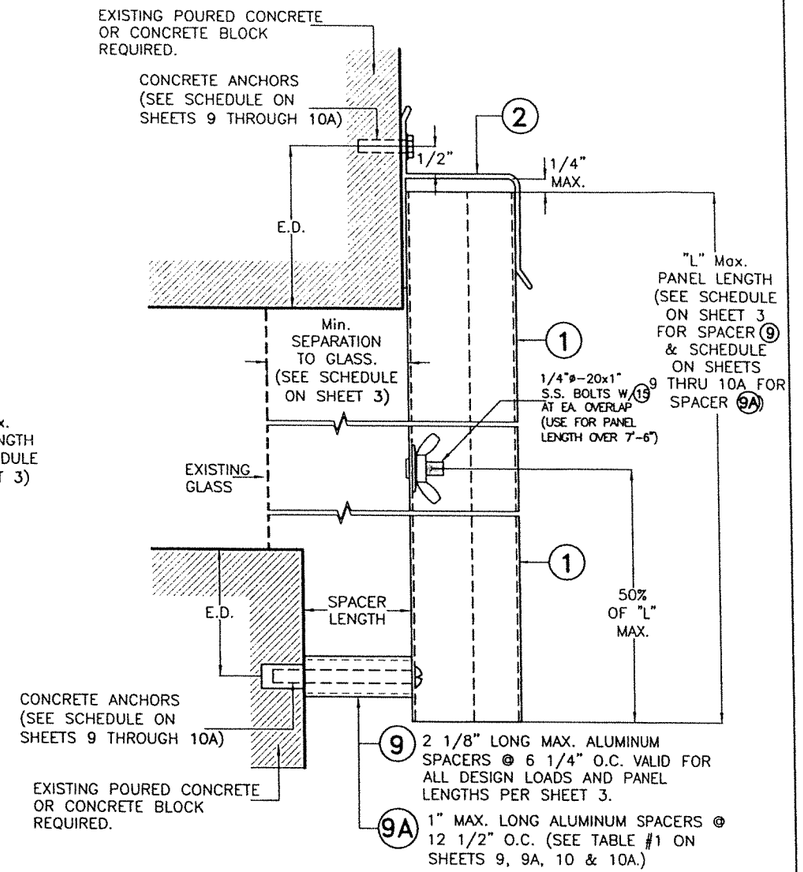
CEILING AND FLOOR MOUNTING SECTION 4

SCALE 3/8=1"



BUILD-OUT MOUNTING SECTION 5

SCALE 3/8=1"



WALL MOUNTING /DIRECT MOUNT W/SPACERS (9) OR (9A) SECTION 6

SCALE 3/8=1"

E.D. = EDGE DISTANCE (SEE SCHEDULE ON SHEETS 1A, 9 & 10)

NOTE FOR COMBINATION OF SECTIONS:

TOP & BOTTOM MOUNTINGS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

©2023 TILTECO, INC.

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, Fl. 33166
Phone : (305) 871-1530 . Fax : (305) 871-1531
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

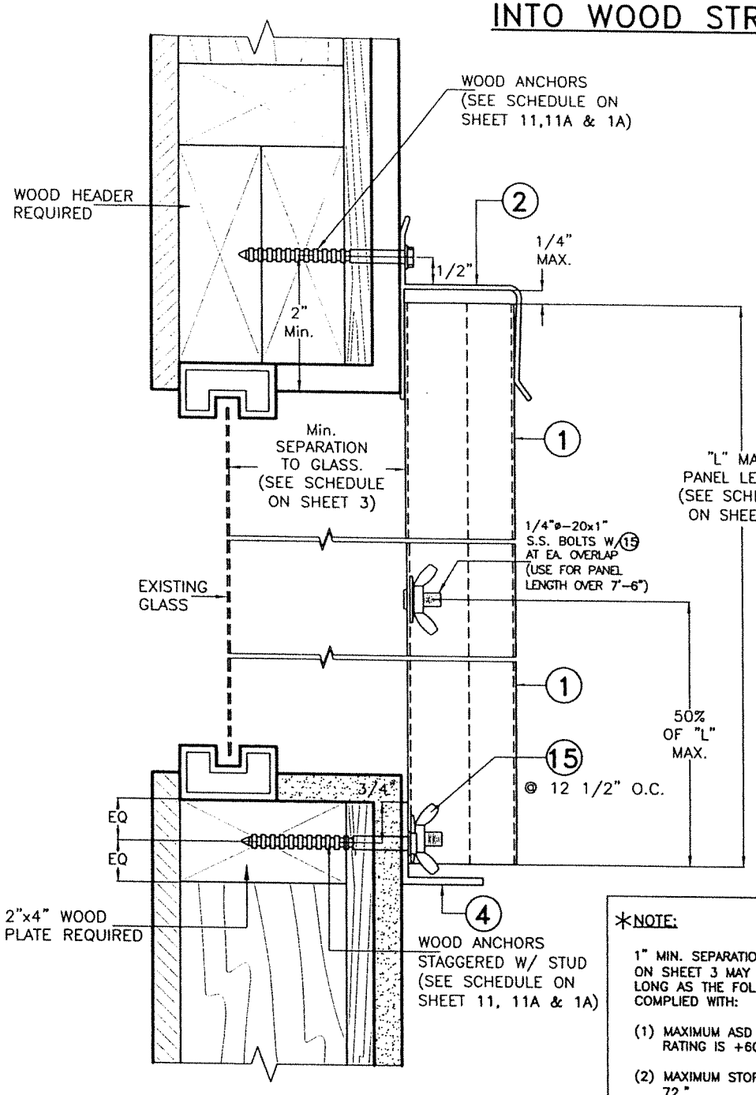
24 GAGE GALVANIZED STEEL STORM PANEL

GLOBAL PROTECTION PRODUCTS, LLC.
4800 S.W. 51 STREET
DAVIE, FL. 33314
PHONE: (954)689-7545, FAX: (954)689-8797

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-175	8/25/23	3		
2	NEW HILLMAN ANCHORS	11/8/23	4		

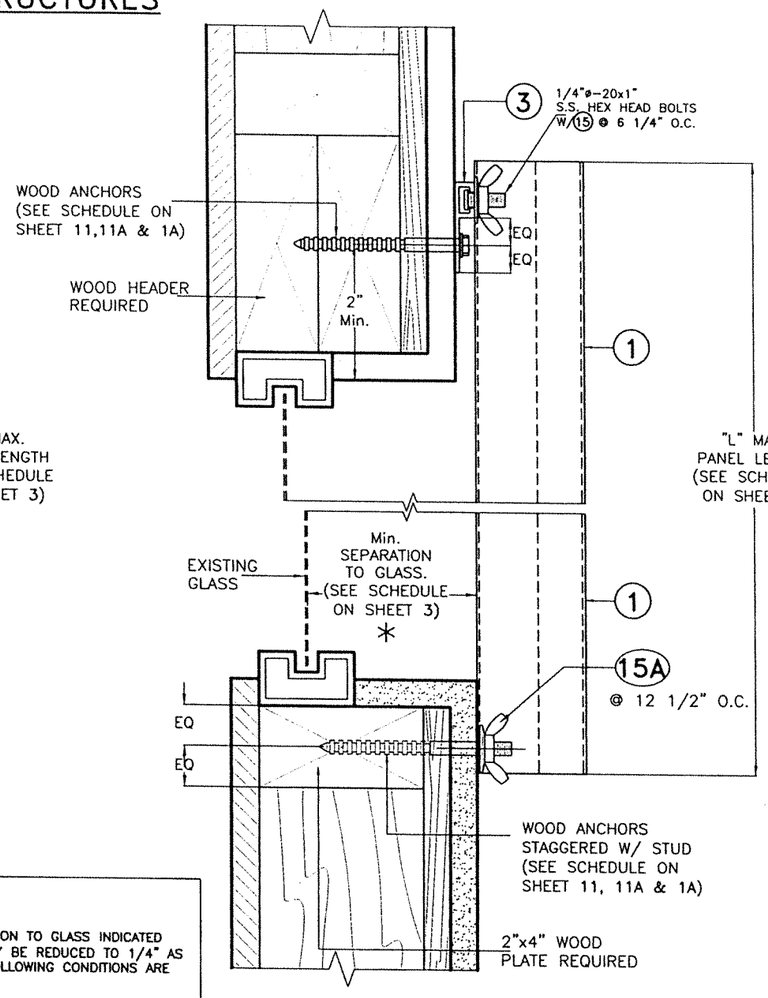
W.H DRAWN BY:
08/25/2023 DATE:
23-193 DRAWING No:
SHEET 5 OF 18

INSTALLATION DETAILS FOR REGULAR PANEL (1) INTO WOOD STRUCTURES



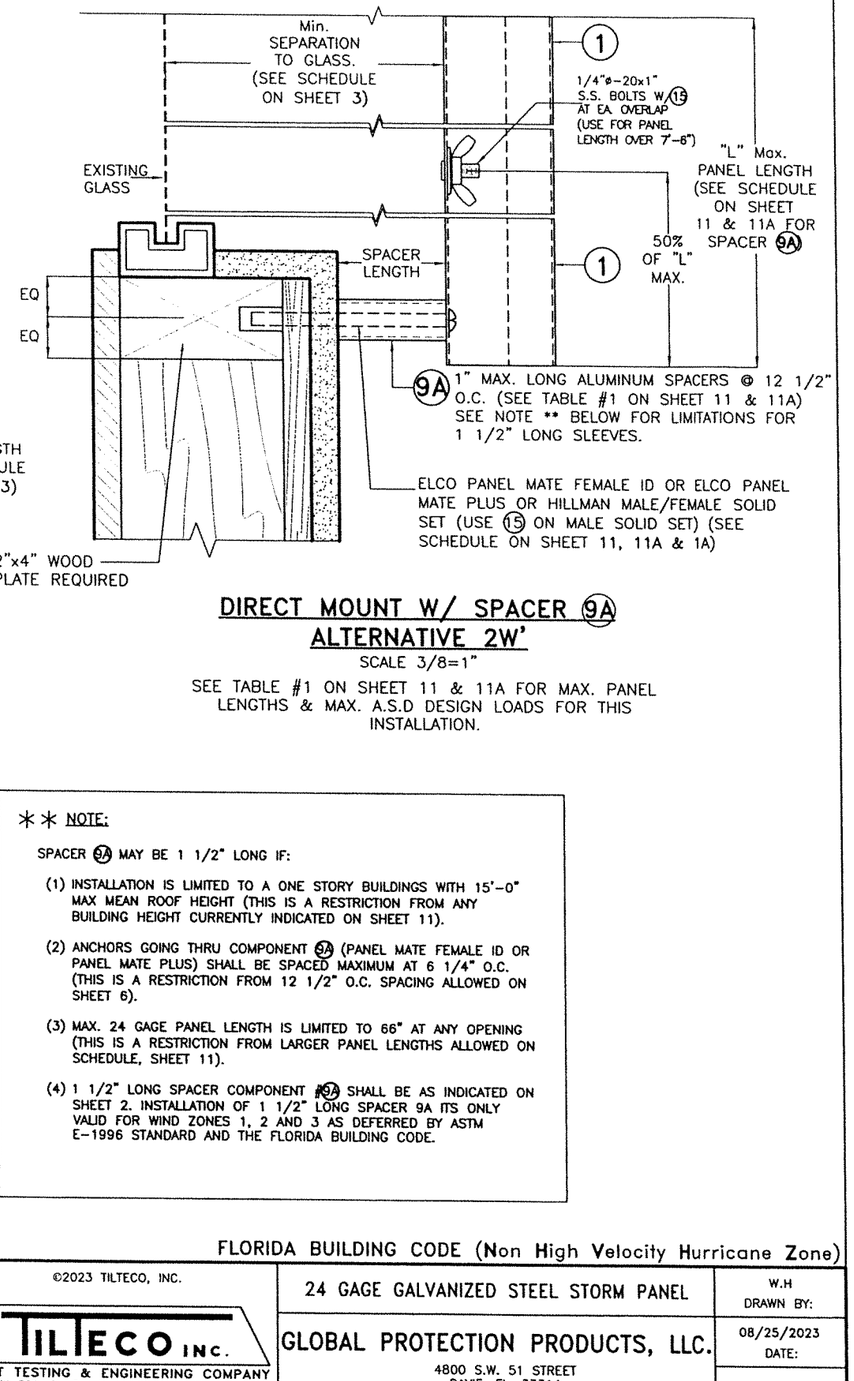
WALL MOUNTING ALTERNATIVE 1W

SCALE 3/8=1"



WALL MOUNTING / DIRECT MOUNT ALTERNATIVE 2W

SCALE 3/8=1"



DIRECT MOUNT W/ SPACER (9A) ALTERNATIVE 2W'

SCALE 3/8=1"

SEE TABLE #1 ON SHEET 11 & 11A FOR MAX. PANEL LENGTHS & MAX. A.S.D DESIGN LOADS FOR THIS INSTALLATION.

**NOTE:

1" MIN. SEPARATION TO GLASS INDICATED ON SHEET 3 MAY BE REDUCED TO 1/4" AS LONG AS THE FOLLOWING CONDITIONS ARE COMPLIED WITH:

(1) MAXIMUM ASD DESIGN PRESSURE RATING IS +60, -65 p.s.f.

(2) MAXIMUM STORM PANEL LENGTH IS 72."

(3) STORM PANEL INSTALLATION IS ONLY INTO AN EXISTING WOOD FRAME WALL.

(4) INSTALLATION VALID ONLY FOR WIND ZONES 1, 2 & 3 PER ASTM E 1996.

**NOTE:

SPACER (9A) MAY BE 1 1/2" LONG IF:

(1) INSTALLATION IS LIMITED TO A ONE STORY BUILDINGS WITH 15'-0" MAX MEAN ROOF HEIGHT (THIS IS A RESTRICTION FROM ANY BUILDING HEIGHT CURRENTLY INDICATED ON SHEET 11).

(2) ANCHORS GOING THRU COMPONENT (9A) (PANEL MATE FEMALE ID OR PANEL MATE PLUS) SHALL BE SPACED MAXIMUM AT 6 1/4" O.C. (THIS IS A RESTRICTION FROM 12 1/2" O.C. SPACING ALLOWED ON SHEET 6).

(3) MAX. 24 GAGE PANEL LENGTH IS LIMITED TO 66" AT ANY OPENING (THIS IS A RESTRICTION FROM LARGER PANEL LENGTHS ALLOWED ON SCHEDULE, SHEET 11).

(4) 1 1/2" LONG SPACER COMPONENT #(9A) SHALL BE AS INDICATED ON SHEET 2. INSTALLATION OF 1 1/2" LONG SPACER 9A ITS ONLY VALID FOR WIND ZONES 1, 2 AND 3 AS DEFERRED BY ASTM E-1996 STANDARD AND THE FLORIDA BUILDING CODE.

NOTE FOR COMBINATION OF SECTIONS:

TOP & BOTTOM MOUNTINGS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.

NOTES:

1. INSTALLATION ARE ONLY VALID FOR MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f) AND PANEL LENGTHS AS PER SCHEDULES ON SHEET 3 (EXCEPT FOR ALTERNATE 2W')
2. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

©2023 TILTECO, INC.

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, Fl. 33166
Phone : (305) 871-1530 . Fax : (305) 871-1531
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

24 GAGE GALVANIZED STEEL STORM PANEL

W.H DRAWN BY:

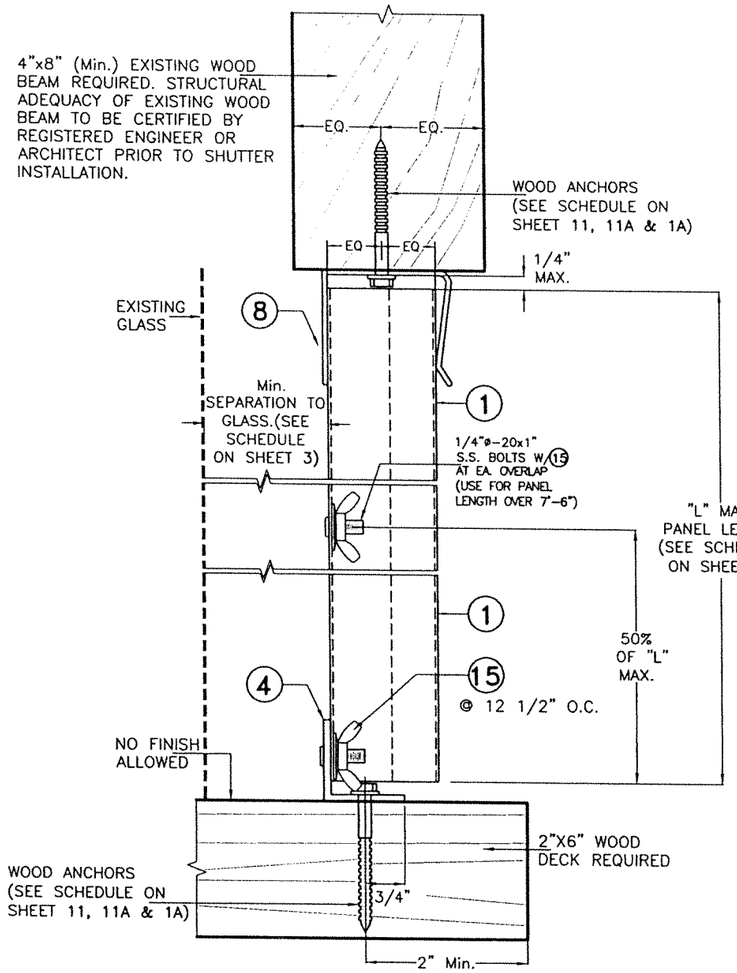
GLOBAL PROTECTION PRODUCTS, LLC.
4800 S.W. 51 STREET
DAVIE, FL. 33314
PHONE: (954)689-7545, FAX: (954)689-8797

08/25/2023 DATE:

23-193 DRAWING No:

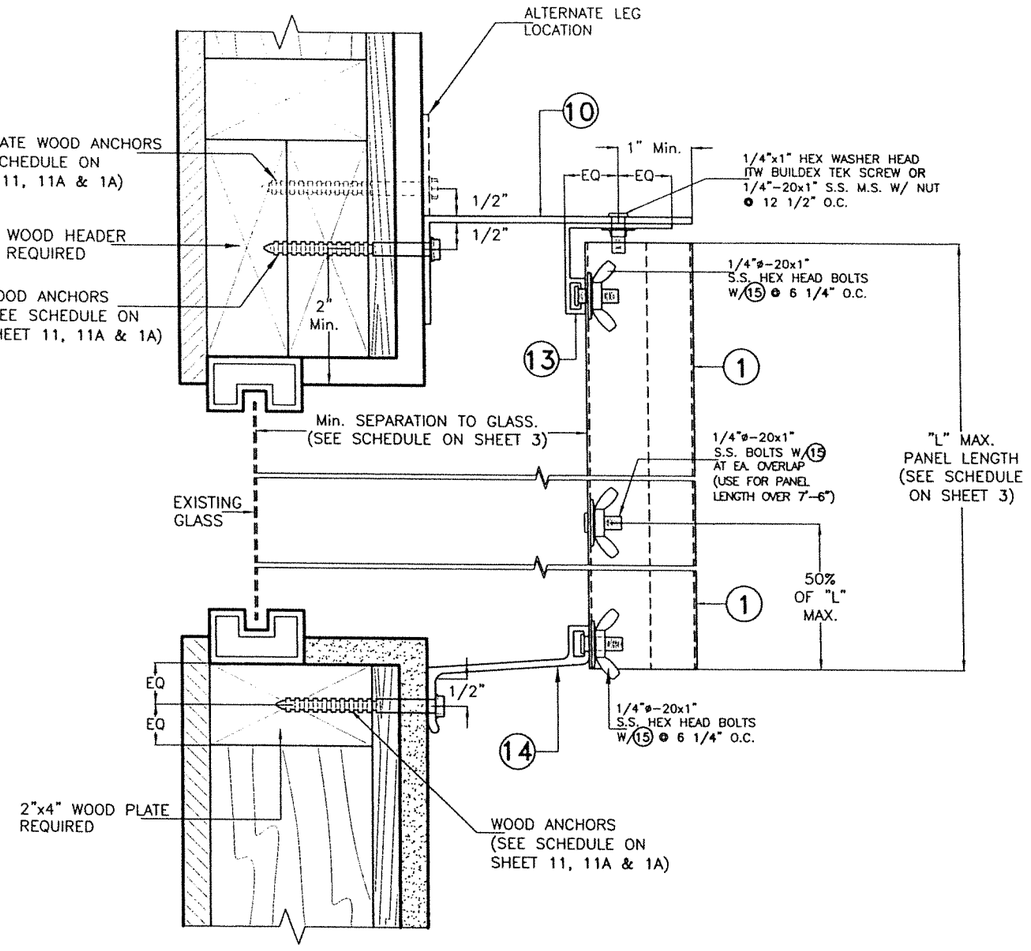
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-175	8/25/23	3		
2	NEW HILLMAN ANCHORS	11/8/23	4		

INSTALLATION DETAILS FOR REGULAR PANEL (1) INTO WOOD



CEILING AND FLOOR MOUNTING ALTERNATIVE 3W

SCALE 3/8=1"



BUILD-OUT MOUNTING ALTERNATIVE 4W

SCALE 3/8=1"

NOTE FOR COMBINATION OF SECTIONS:

TOP & BOTTOM MOUNTINGS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.

NOTES:

1. INSTALLATION ARE ONLY VALID FOR MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f) AND PANEL LENGTHS AS PER SCHEDULES ON SHEET 3
2. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

©2023 TILTECO, INC.

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, Fl. 33166
Phone : (305) 871-1530 . Fax : (305) 871-1531
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

24 GAGE GALVANIZED STEEL STORM PANEL

GLOBAL PROTECTION PRODUCTS, LLC.
4800 S.W. 51 STREET
DAVIE, FL. 33314
PHONE: (954)689-7545, FAX: (954)689-8797

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-175	8/25/23	3		
2	NEW HILLMAN ANCHORS	11/6/23	4		

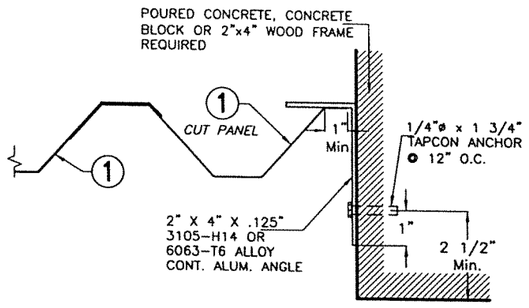
W.H
DRAWN BY:

08/25/2023
DATE:

23-193
DRAWING No:

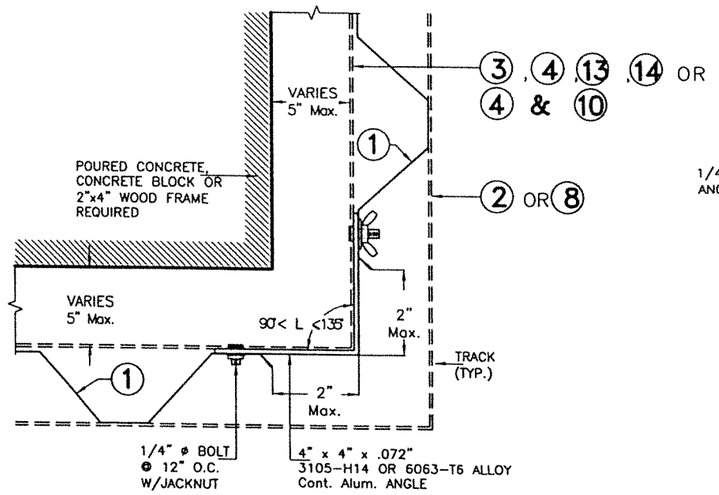
SHEET 7 OF 18

END CLOSURES DETAILS FOR INSTALLATION IN POURED CONCRETE, CONCRETE BLOCK OR WOOD STRUCTURES; VALID FOR REGULAR, LIFE SAFETY & E-Z HANG STORM PANEL (1) SYSTEMS



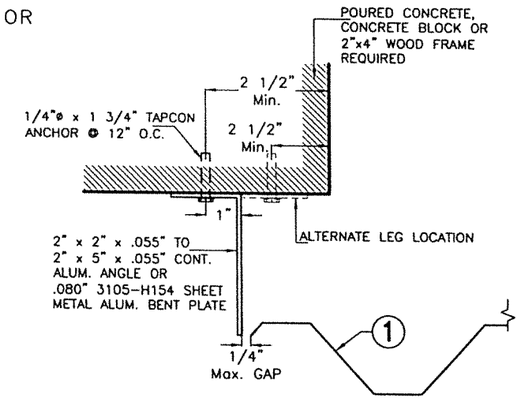
CASE A (PLAN)

SCALE 1/4"=1"



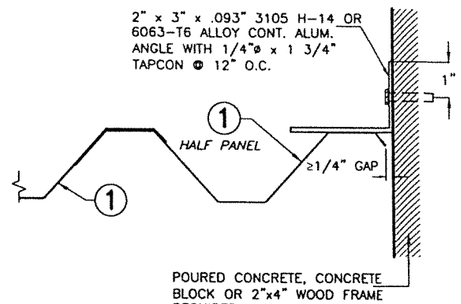
CASE B (PLAN)

SCALE 1/4"=1"



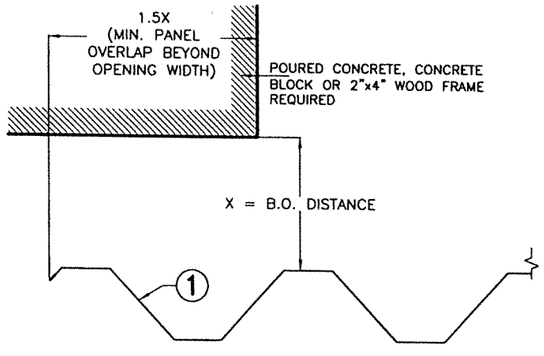
CASE C (PLAN)

SCALE 1/4"=1"



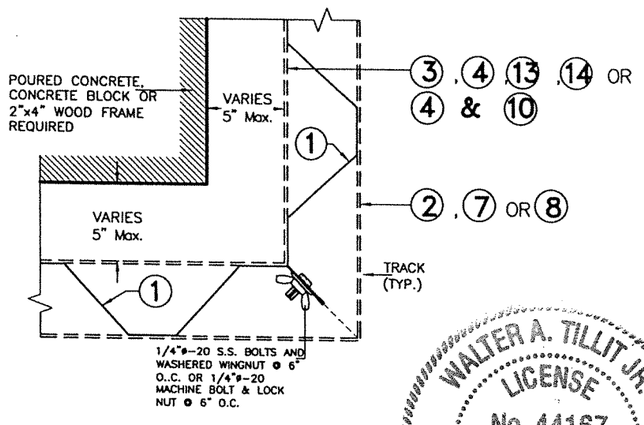
CASE D (PLAN)

SCALE 1/4"=1"



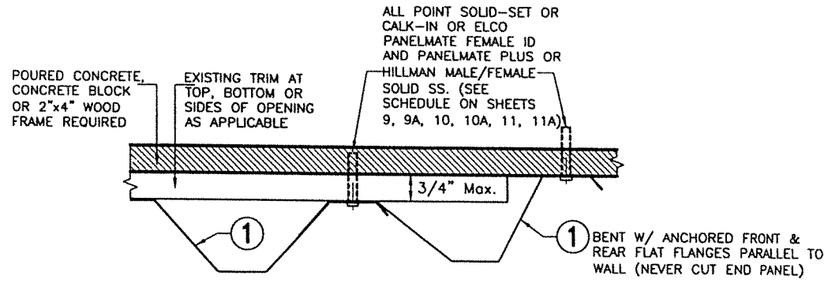
CASE E (PLAN)

SCALE 1/4"=1"



CASE F (PLAN)

SCALE 1/4"=1"



CASE G (PLAN)

SCALE 1/4"=1"

VALID FOR DIRECT MOUNT INSTALLATION ONLY & CERTIFIED PANEL INSTALLATION AT WALLS W/ SURFACE LEVEL VARIATIONS WITHIN 3/4"

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

1/5/2023

P.E. SEAL/SIGNATURE/DATE

©2023 TILTECO, INC.

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL. 33166
Phone : (305) 871-1530 . Fax : (305) 871-1531
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

24 GAGE GALVANIZED STEEL STORM PANEL

W.H DRAWN BY:

GLOBAL PROTECTION PRODUCTS, LLC.
4800 S.W. 51 STREET
DAVIE, FL. 33314
PHONE: (954)689-7545, FAX: (954)689-8797

08/25/2023 DATE:

23-193 DRAWING No:

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-175	8/25/23	3		
2	NEW HILLMAN ANCHORS	11/8/23	4		

SHEET 8 OF 18

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR SPACING SCHEDULE FOR REGULAR STORM PANEL (1) INSTALLATIONS INTO CONCRETE & CONCRETE BLOCK STRUCTURES

(VALID ONLY FOR PANEL (1) INSTALLATIONS AS PER SECTIONS 1 THRU 6, ON SHEETS 4 & 5)

MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM ANCHORS SPACING FOR MIN E.D. PER SCHEDULE BELOW *										APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	TAPCON		ALL POINT SOLID–SET		ELCO PANELMATE FEMALE ID		ELCO PANELMATE PLUS		CALK–IN			
	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK		
+45, –45 OR LESS	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	1 (TOP)	5'–6" OR LESS
	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	1 (BOTTOM)	
	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	2 (TOP)	
	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	2 (BOTTOM)	
	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	3 (TOP)	
	–	–	12 1/2"	12 1/2"	6 1/4"	6 1/4"	12 1/2"	12 1/2"	6 1/4"	6 1/4"	3 (BOTTOM)	
	8"	8"	8"	8"	8"	8"	8"	8"	8"	7 1/2"	4 (TOP)	
	8"	–	8"	–	8"	–	8"	–	8"	–	4 (BOTTOM)	
	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	5 (TOP)	
	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	5 (BOTTOM)	
	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	6 (TOP)	
	–	–	6 1/4"	6 1/4"	6 1/4"	6 1/4"	–	–	6 1/4"	6 1/4"	6 (BOTT.**)	
	13"	5"	13"	10 1/2"	13"	7"	13"	7"	13"	4 1/2"	1 (TOP)	>5'–6" TO 14'–4"
	13"	7"	13"	13"	13"	9 1/2	13"	9 1/2	13"	6"	1 (BOTTOM)	
	13"	5"	13"	10 1/2"	13"	7"	13"	7"	13"	4 1/2"	2 (TOP)	
	13"	7"	13"	13"	13"	9 1/2	13"	9 1/2	13"	6 1/2"	2 (BOTTOM)	
	13"	7"	13"	13"	13"	9 1/2	13"	9 1/2	13"	6 1/2"	3 (TOP)	
	–	–	12 1/2"	12 1/2"	6 1/4"	6 1/4"	12 1/2"	6 1/4"	6 1/4"	6 1/4"	3 (BOTTOM)	
	7"	3"	8"	5 1/2"	7"	3 1/2"	8"	4"	6 1/2"	3"	4 (TOP)	
	8"	–	8"	–	8"	–	8"	–	7 1/2"	–"	4 (BOTTOM)	
	13"	7"	13"	13"	13"	9 1/2"	13"	9 1/2"	13"	6"	5 (TOP)	
	13"	7"	13"	13"	13"	9 1/2"	13"	9 1/2"	13"	6 1/2"	5 (BOTTOM)	
	13"	5"	13"	10 1/2"	13"	7"	13"	7"	13"	4 1/2"	6 (TOP)	
	–	–	6 1/4"	6 1/4"	6 1/4"	6 1/4"	–	–	6 1/4"	6 1/4"	6 (BOTT.**)	

MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM ANCHORS SPACING FOR MIN E.D. PER SCHEDULE BELOW *										APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	TAPCON		ALL POINT SOLID–SET		ELCO PANELMATE FEMALE ID		ELCO PANELMATE PLUS		CALK–IN			
	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK		
+45, –45 TO +65, –65	13"	13"	13"	13"	13"	13"	13"	13"	13"	11 1/2"	1 (TOP)	5'–6" OR LESS
	13"	13"	13"	13"	13"	13"	13"	13"	13"	11 1/2"	1 (BOTTOM)	
	13"	13"	13"	13"	13"	13"	13"	13"	13"	11 1/2"	2 (TOP)	
	13"	13"	13"	13"	13"	13"	13"	13"	13"	11 1/2"	2 (BOTTOM)	
	13"	13"	13"	13"	13"	13"	13"	13"	13"	11 1/2"	3 (TOP)	
	–	–	12 1/2"	12 1/2"	6 1/4"	6 1/4"	12 1/2"	12 1/2"	6 1/4"	6 1/4"	3 (BOTTOM)	
	8"	5 1/2"	8"	8"	8"	6 1/2"	8"	7 1/2"	8"	5"	4 (TOP)	
	8"	–	8"	–	8"	–	8"	–	8"	–	4 (BOTTOM)	
	13"	13"	13"	13"	13"	13"	13"	13"	13"	11 1/2"	5 (TOP)	
	13"	13"	13"	13"	13"	13"	13"	13"	13"	11 1/2"	5 (BOTTOM)	
	13"	13"	13"	13"	13"	13"	13"	13"	13"	11 1/2"	6 (TOP)	
	–	–	6 1/4"	6 1/4"	6 1/4"	6 1/4"	–	–	6 1/4"	6 1/4"	6 (BOTT.**)	
	13"	6"	13"	13"	13"	8 1/2"	13"	8 1/2"	13"	5 1/2"	1 (TOP)	>5'–6" TO 9'–6"
	13"	7 1/2"	13"	13"	13"	10"	13"	10"	13"	6 1/2"	1 (BOTTOM)	
	13"	6"	13"	13"	13"	8 1/2"	13"	8 1/2"	13"	5 1/2"	2 (TOP)	
	13"	7 1/2"	13"	13"	13"	10"	13"	10"	13"	6 1/2"	2 (BOTTOM)	
	13"	7 1/2"	13"	13"	13"	10"	13"	10"	13"	6 1/2"	3 (TOP)	
	–	–	12 1/2"	12 1/2"	6 1/4"	6 1/4"	12 1/2"	12 1/2"	6 1/4"	6 1/4"	3 (BOTTOM)	
	7 1/2"	3"	8"	6"	7"	4"	8"	4"	6 1/2"	3"	4 (TOP)	
	8"	–	8"	–"	8"	–	8"	–	7 1/2"	–	4 (BOTTOM)	
	13"	8 1/2"	13"	13"	13"	10"	13"	10"	13"	6 1/2"	5 (TOP)	
	13"	8 1/2"	13"	13"	13"	10"	13"	10"	13"	6 1/2"	5 (BOTTOM)	
	13"	6"	13"	13"	13"	8 1/2"	13"	8 1/2"	13"	5 1/2"	6 (TOP)	
	–	–	6 1/4"	6 1/4"	6 1/4"	6 1/4"	–	–	6 1/4"	6 1/4"	6 (BOTT.**)	

SEE SHEET 11 FOR ANCHORS TYPE & SPACING FOR INSTALLATIONS INTO WOOD FRAME BUILDINGS.

* MINIMUM ANCHOR SPACINGS AND MINIMUM EDGE DISTANCE ARE INDICATED ON THIS SCHEDULE. FOR E.D. LESS THAN INDICATED ON SCHEDULE REDUCE ANCHOR SPACING BY MULTIPLYING SPACING SHOWN ON SCHEDULE BY THE FOLLOWING FACTORS. FOR THIS OPERATION TO BE POSSIBLE, REDUCED SPACING OBTAINED USING FACTOR SHALL NOT BE LESS THAN MINIMUM SPACING INDICATED FOR EACH ANCHOR TYPE ON THIS SCHEDULE.

ANCHOR TYPE		1/4"ø TAPCON	1/4"ø SOLID–SET	1/4"ø PANELMATE FEMALE ID	1/4"ø PANELMATE PLUS	1/4"ø CALK–IN
MINIMUM ANCHOR SPACING (in.)		3	3	3	3	2 1/2
MINIMUM EDGE DISTANCE (E.D.)	CONCRETE (in.)	3	3 1/2"	3"	3	3
	CONCRETE BLOCK (in.)	3	3 1/2"	3 1/2"	3 1/2	4
ACTUAL EDGE DISTANCE (E.D.)		FACTOR				
1 1/2"		0.35	–	–	–	–
2 1/2"		0.81	0.50	–	–	0.50
3"		0.90	0.78	–	1.00	0.63
3 1/2"		–	1.00	1.00	–	1.00

** SPACINGS ONLY VALID WHEN SPACER (9) IS USED. SEE TABLE #1 FOR MAX. A.S.D. DESIGN LOADS & MAX. PANEL LENGTHS WHEN SPACER (9A) IS USED.

TABLE #1 Δ	
A.S.D. DESIGN LOAD	MAXIMUM PANEL LENGTH
40 PSF OR LESS	6'–8"
> 40 PSF TO 50 PSF	6'–2"
> 50 PSF TO 60 PSF	5'–10"

Δ MAX. PANEL LENGTHS ARE ONLY VALID FOR INSTALLATIONS W/ ALL POINT SOLID SET ANCHORS & W/ (9A) SPACER AT 12 1/2" O.C.

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

11/15/2023

P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

©2023 TILTECO, INC.

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL. 33166
Phone : (305) 871–1330 . Fax : (305) 871–1531
e–mail: tilteco@aol.com
CA–0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

24 GAGE GALVANIZED STEEL STORM PANEL

GLOBAL PROTECTION PRODUCTS, LLC.
4800 S.W. 51 STREET
DAVIE, FL. 33314
PHONE: (954)689–7545, FAX: (954)689–8797

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20–175	8/23/23	3		
2	NEW HILLMAN ANCHORS	11/6/23	4		

W.H
DRAWN BY:

08/25/2023
DATE:

23–193
DRAWING No:

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR SPACING SCHEDULE FOR REGULAR STORM PANEL (1) INSTALLATIONS INTO CONCRETE & CONCRETE BLOCK STRUCTURES

(VALID ONLY FOR PANEL (1) INSTALLATIONS AS PER SECTIONS 1 THRU 6, ON SHEETS 4 & 5)
W/ THE HILLMAN GROUP APPLICABLE ANCHORS.)

MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM ANCHORS SPACING FOR MIN E.D. PER SCHEDULE BELOW *															APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	SOLID–SET 1/4" SCREW CS.			SOLID–SET #14 FEMALE CS.			SOLID–SET 1/4" SCREW 410 SS.			SOLID–SET #14 MALE CS.			SOLID–SET #14 MALE, 304 SS.				
	TO CONCRETE	TO GROUT FILLET	TO CONCRETE BLOCK	TO CONCRETE	TO GROUT FILLET	TO CONCRETE BLOCK	TO CONCRETE	TO GROUT FILLET	TO CONCRETE BLOCK	TO CONCRETE	TO GROUT FILLET	TO CONCRETE BLOCK	TO CONCRETE	TO GROUT FILLET	TO CONCRETE BLOCK		
+45, –45 OR LESS	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	9"	1 (TOP)	5'–6" OR LESS
	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	9"	1 (BOTTOM)	
	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	9"	2 (TOP)	
	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	9"	2 (BOTTOM)	
	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	9"	3 (TOP)	
	N/A	N/A	N/A	6 1/4"	6 1/4"	6 1/4"	N/A	N/A	N/A	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	3 (BOTTOM)	
	8"	8"	8"	8"	8"	7"	8"	8"	7 1/4"	8"	8"	7"	8"	8"	5"	4 (TOP)	
	8"	–	–	8"	–	–	8"	–	–	8"	–	–	8"	–	–	4 (BOTTOM)	
	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	9"	5 (TOP)	
	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	9"	5 (BOTTOM)	
	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	9"	6 (TOP)	
	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 (BOTT.**)	
	13"	5"	4 1/2"	13"	5"	4"	13"	5"	4 1/4"	13"	5"	4"	10 1/2"	5"	2 1/4"	1 (TOP)	>5'–6" TO 14'–4"
	13"	7"	6 1/4"	13"	7"	5"	13"	7"	5 1/2"	13"	7"	5 1/4"	13"	7"	3 1/4"	1 (BOTTOM)	
	13"	5"	4 1/2"	13"	5"	4"	13"	5"	4 1/4"	13"	5"	4"	10 1/2"	5"	2 1/4"	2 (TOP)	
	13"	5"	5"	13"	5"	5"	13"	5"	5"	13"	5"	5 1/4"	13"	7"	3 1/4"	2 (BOTTOM)	
	13"	7"	6 1/2"	13"	7"	5 1/4"	13"	7"	6"	13"	7"	5 1/4"	13"	7"	3 1/4"	3 (TOP)	
	N/A	N/A	N/A	6 1/4"	6 1/4"	N/A	N/A	N/A	N/A	6 1/4"	6 1/4"	N/A	6 1/4"	6 1/4"	N/A	3 (BOTTOM)	
	7"	3"	3"	7"	3"	2 1/2"	7"	6"	2 1/2"	7"	3"	2 1/2"	6 1/4"	3"	1 1/2"	4 (TOP)	
	8"	–	–	8"	–	–	8"	–	–	8"	–	–	7 1/2"	–	–	4 (BOTTOM)	
	13"	7"	6 1/4"	13"	7"	5"	13"	7"	5 1/2"	13"	7"	5 1/4"	13"	7"	3 1/4"	5 (TOP)	
	13"	7"	6 1/2"	13"	7"	5 1/4"	13"	7"	6"	13"	7"	5 1/4"	13"	7"	3 1/4"	5 (BOTTOM)	
	13"	5"	4 1/2"	13"	5"	4"	13"	5"	4 1/4"	13"	5"	4"	10 1/2"	5"	2 1/4"	6 (TOP)	
	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6"	6 1/4"	6 1/4"	5 1/4"	6 1/4"	6 1/4"	3 1/4"	6 (BOTT.**)	

MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM ANCHORS SPACING FOR MIN E.D. PER SCHEDULE BELOW *															APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	SOLID–SET 1/4" SCREW CS.			SOLID–SET #14 FEMALE CS.			SOLID–SET 1/4" SCREW 410 SS.			SOLID–SET #14 MALE CS.			SOLID–SET #14 MALE, 304 SS.				
	TO CONCRETE	TO GROUT FILLET	TO CONCRETE BLOCK	TO CONCRETE	TO GROUT FILLET	TO CONCRETE BLOCK	TO CONCRETE	TO GROUT FILLET	TO CONCRETE BLOCK	TO CONCRETE	TO GROUT FILLET	TO CONCRETE BLOCK	TO CONCRETE	TO GROUT FILLET	TO CONCRETE BLOCK		
+45, –45 TO +65, –65	13"	13"	12"	13"	13"	9 1/2"	13"	13"	10 1/2"	13"	13"	9 1/2"	13"	13"	6"	1 (TOP)	5'–6" OR LESS
	13"	13"	12"	13"	13"	9 1/2"	13"	13"	10 1/2"	13"	13"	9 1/2"	13"	13"	6"	1 (BOTTOM)	
	13"	13"	12"	13"	13"	9 1/2"	13"	13"	10 1/2"	13"	13"	9 1/2"	13"	13"	6"	2 (TOP)	
	13"	13"	12"	13"	13"	9 1/2"	13"	13"	10 1/2"	13"	13"	9 1/2"	13"	13"	6"	2 (BOTTOM)	
	13"	13"	12"	13"	13"	9 1/2"	13"	13"	10 1/2"	13"	13"	9 1/2"	13"	13"	6"	3 (TOP)	
	N/A	N/A	N/A	6 1/4"	6 1/4"	6 1/4"	N/A	N/A	N/A	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	N/A	3 (BOTTOM)	
	8"	5 1/2"	5 1/2"	8"	5 1/2"	5"	8"	8"	5"	8"	5 1/2"	5"	8"	5 1/2"	3 1/4"	4 (TOP)	
	8"	–	–	8"	–	–	8"	–	–	8"	–	–	8"	–	–	4 (BOTTOM)	
	13"	13"	12"	13"	13"	9 1/2"	13"	13"	10 1/2	13"	13"	9 1/2"	13"	13"	6"	5 (TOP)	
	13"	13"	12"	13"	13"	9 1/2"	13"	13"	10 1/2	13"	13"	9 1/2"	13"	13"	6"	5 (BOTTOM)	
	13"	13"	12"	13"	13"	9 1/2"	13"	13"	10 1/2	13"	13"	9 1/2"	13"	13"	6"	6 (TOP)	
	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6"	6 (BOTT.**)	
	13"	6"	5 1/2"	13"	6"	4 1/2"	13"	6"	5"	13"	6"	4 1/2"	13"	6"	3"	1 (TOP)	>5'–6" TO 9'–6"
	13"	7 1/2"	7"	13"	7 1/2"	5 1/2"	13"	7 1/2"	6"	13"	7 1/2"	5 1/2"	13"	7 1/2"	4"	1 (BOTTOM)	
	13"	6"	5 1/2"	13"	6"	4 1/2"	13"	6"	5"	13"	6"	4 1/2"	13"	6"	3"	2 (TOP)	
	13"	6"	6"	13"	6"	5 1/2"	13"	6"	6"	13"	7 1/2"	5 1/2"	13"	7 1/2"	3 1/2"	2 (BOTTOM)	
	13"	7 1/2"	7"	13"	7 1/2"	5 1/2"	13"	7 1/2"	6"	13"	7 1/2"	5 1/2"	13"	7 1/2"	3 1/2"	3 (TOP)	
	N/A	N/A	N/A	6 1/4"	6 1/4"	6 1/4"	N/A	N/A	N/A	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	N/A	3 (BOTTOM)	
	7"	3"	3"	7"	3"	2 1/2"	7"	6 1/4"	3"	7"	3"	2 1/2"	6 1/2"	3"	2"	4 (TOP)	
	8"	–	–	8"	–	–	8"	–	–	8"	–	–	8"	–	–	4 (BOTTOM)	
	13"	7 1/2"	7"	13"	7 1/2"	5 1/2"	13"	7 1/2"	6"	13"	7 1/2"	5 1/2"	13"	7 1/2"	4"	5 (TOP)	
	13"	8 1/2"	7"	13"	8 1/2"	5 1/2"	13"	8 1/2"	6"	13"	8 1/2"	5 1/2"	13"	8 1/2"	3 1/2"	5 (BOTTOM)	
	13"	6"	5 1/2"	13"	6"	4 1/2"	13"	6"	5"	13"	6"	4 1/2"	13"	6"	3"	6 (TOP)	
	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	5 1/2"	6 1/4"	6 1/4"	6"	6 1/4"	6 1/4"	5 1/2"	6 1/4"	6 1/4"	3 1/4"	6 (BOTT.**)	

** SPACINGS ONLY VALID WHEN SPACER (9) IS USED. SEE TABLE #1 FOR MAX. A.S.D. DESIGN LOADS & MAX. PANEL LENGTHS WHEN SPACER (9A) IS USED.

TABLE #1 Δ

A.S.D. DESIGN LOAD	MAXIMUM PANEL LENGTH
40 PSF OR LESS	6'–8"
> 40 PSF TO 50 PSF	6'–2"
> 50 PSF TO 60 PSF	5'–10"

Δ MAX. PANEL LENGTHS ARE ONLY VALID FOR INSTALLATIONS W/ HILLMAN MALE/FEMALE SOLID SET ANCHORS & W/ (9A) SPACER AT 12 1/2" O.C.

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

12/07/2023
P.E. SEAL/SIGNATURE/DATE

©2023 TILTECO, INC.

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Sta. 305, VIRGINIA GARDENS, FL. 33166
Phone : (305) 871-1530 . Fax : (305) 871-1531
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

24 GAGE GALVANIZED STEEL STORM PANEL

W.H DRAWN BY:

GLOBAL PROTECTION PRODUCTS, LLC.
4800 S.W. 51 STREET
DAVIE, FL. 33314
PHONE: (954)689-7545, FAX: (954)689-8797

08/25/2023 DATE:

23-193 DRAWING No:

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-175	8/25/23	3		
2	NEW HILLMAN ANCHORS	11/6/23	4		

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR SPACING SCHEDULE FOR REGULAR STORM PANEL (1) INSTALLATIONS INTO CONCRETE & CONCRETE BLOCK STRUCTURES

(VALID ONLY FOR PANEL (1) INSTALLATIONS AS PER SECTIONS 1 THRU 6, ON SHEETS 4 & 5)

MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM ANCHORS SPACING FOR MIN E.D. PER SCHEDULE BELOW *										APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	TAPCON		ALL POINT SOLID–SET		ELCO PANELMATE FEMALE ID		ELCO PANELMATE PLUS		CALK–IN			
	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK		
>+65, –65 TO +75, –75	13"	11"	13"	13"	13"	13"	13"	13"	13"	10"	1 (TOP)	5'–6" OR LESS
	13"	11"	13"	13"	13"	13"	13"	13"	13"	10"	1 (BOTTOM)	
	13"	11"	13"	13"	13"	13"	13"	13"	13"	10"	2 (TOP)	
	13"	11"	13"	13"	13"	13"	13"	13"	13"	10"	2 (BOTTOM)	
	13"	11"	13"	13"	13"	13"	13"	13"	13"	10"	3 (TOP)	
	–	–	12 1/2"	12 1/2"	6 1/4"	6 1/4"	12 1/2"	12 1/2"	6 1/4"	6 1/4"	3 (BOTTOM)	
	8"	5"	8"	8"	8"	6"	8"	6 1/2"	8"	4 1/2"	4 (TOP)	
	8"	–	8"	–	8"	–	8"	8"	8"	–	4 (BOTTOM)	
	13"	11"	13"	13"	13"	13"	13"	13"	13"	10"	5 (TOP)	
	13"	11"	13"	13"	13"	13"	13"	13"	13"	10"	5 (BOTTOM)	
	13"	11"	13"	13"	13"	13"	13"	13"	13"	10"	6 (TOP)	
	–	–	6 1/4"	6 1/4"	6 1/4"	6 1/4"	–	–	6 1/4"	6 1/4"	6 (BOTT.**)	
	13"	7 1/2"	13"	13"	13"	10"	13"	10"	13"	6 1/2"	1 (TOP)	>5'–6" TO 8'–0"
	13"	7 1/2"	13"	13"	13"	10 1/2"	13"	10 1/2"	13"	7"	1 (BOTTOM)	
	13"	7 1/2"	13"	13"	13"	10"	13"	10"	13"	6 1/2"	2 (TOP)	
	13"	7 1/2"	13"	13"	13"	10 1/2"	13"	10 1/2"	13"	7"	2 (BOTTOM)	
	13"	7 1/2"	13"	13"	13"	10 1/2"	13"	10 1/2"	13"	7"	3 (TOP)	
	–	–	12 1/2"	12 1/2"	6 1/4"	6 1/4"	12 1/2"	6 1/4"	6 1/4"	6 1/4"	3 (BOTTOM)	
	7 1/2"	3 1/2"	8"	6"	7 1/2"	4"	8"	4 1/2"	7"	3"	4 (TOP)	
	8"	–	8"	–	8"	–	8"	–	8"	–	4 (BOTTOM)	
	13"	7 1/2"	13"	13"	13"	10 1/2"	13"	10 1/2"	13"	7"	5 (TOP)	
	13"	7 1/2"	13"	13"	13"	10 1/2"	13"	10 1/2"	13"	7"	5 (BOTTOM)	
	13"	7 1/2"	13"	13"	13"	10 1/2"	13"	10 1/2"	13"	7"	6 (TOP)	
	–	–	6 1/4"	6 1/4"	6 1/4"	6 1/4"	–	–	6 1/4"	6 1/4"	6 (BOTT.**)	

MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM ANCHORS SPACING FOR MIN E.D. PER SCHEDULE BELOW *										APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	TAPCON		ALL POINT SOLID–SET		ELCO PANELMATE FEMALE ID		ELCO PANELMATE PLUS		CALK–IN			
	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK		
>+75, –75 TO +119,–119.6	13"	5"	13"	10 1/2"	13"	6 1/2"	13"	6 1/2"	13"	4 1/2"	1 (TOP)	5'–6" OR LESS
	13"	6 1/2"	13"	13"	13"	9"	13"	9"	13"	6"	1 (BOTTOM)	
	13"	5"	13"	10 1/2"	13"	6 1/2"	13"	6 1/2"	13"	4 1/2"	2 (TOP)	
	13"	7"	13"	13"	13"	9 1/2"	13"	9 1/2"	13"	6 1/2"	2 (BOTTOM)	
	13"	7"	13"	13"	13"	9 1/2"	13"	9 1/2"	13"	6"	3 (TOP)	
	–	–	12 1/2"	12 1/2"	6 1/4"	6 1/4"	12 1/2"	6 1/4"	6 1/4"	6 1/4"	3 (BOTTOM)	
	7"	3"	8"	5 1/2"	7"	3 1/2"	8"	4"	6 1/2"	2 1/2"	4 (TOP)	
	8"	–	6 1/2"	–	8"	–	8"	–	7"	–	4 (BOTTOM)	
	13"	6 1/2"	13"	13"	13"	9"	13"	9"	13"	6"	5 (TOP)	
	13"	7"	13"	13"	13"	9 1/2"	13"	9 1/2"	13"	6"	5 (BOTTOM)	
	13"	5"	13"	10 1/2"	13"	6 1/2"	13"	6 1/2"	13"	4 1/2"	6 (TOP)	
	–	–	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 (BOTT.**)	
	13"	5"	13"	10 1/2"	13"	6 1/2"	13"	6 1/2"	13"	4 1/2"	1 (TOP)	>5'–6" TO 7'–5"
	13"	6 1/2"	13"	13"	13"	9"	13"	9"	13"	6"	1 (BOTTOM)	
	13"	5"	13"	10 1/2"	13"	6 1/2"	13"	6 1/2"	13"	4 1/2"	2 (TOP)	
	13"	7"	13"	13"	13"	9 1/2"	13"	9 1/2"	13"	6 1/2"	2 (BOTTOM)	
	13"	7"	13"	13"	13"	9 1/2"	13"	9 1/2"	13"	6"	3 (TOP)	
	–	–	12 1/2"	12 1/2"	6 1/4"	6 1/4"	12 1/2"	6 1/4"	6 1/4"	6 1/4"	3 (BOTTOM)	
	7"	3"	8"	5 1/2"	7"	3 1/2"	8"	4"	6 1/2"	2 1/2"	4 (TOP)	
	8"	–	6 1/2"	–	8"	–	8"	–	7"	–	4 (BOTTOM)	
	13"	6 1/2"	13"	13"	13"	9"	13"	9"	13"	6"	5 (TOP)	
	13"	7"	13"	13"	13"	9 1/2"	13"	9 1/2"	13"	6"	5 (BOTTOM)	
	13"	5"	13"		13"	6 1/2"	13"	6 1/2"	13"	4 1/2"	6 (TOP)	
	–	–	6 1/4"	6 1/4"	6 1/4"	6 1/4"	–	–	6 1/4"	6 1/4"	6 (BOTT.**)	

* SEE SHEET 11 FOR ANCHORS TYPE & SPACING FOR INSTALLATIONS INTO WOOD FRAME BUILDINGS.

* MINIMUM ANCHOR SPACINGS AND MINIMUM EDGE DISTANCE ARE INDICATED ON THIS SCHEDULE. FOR E.D. LESS THAN INDICATED ON SCHEDULE REDUCE ANCHOR SPACING BY MULTIPLYING SPACING SHOWN ON SCHEDULE BY THE FOLLOWING FACTORS. FOR THIS OPERATION TO BE POSSIBLE, REDUCED SPACING OBTAINED USING FACTOR SHALL NOT BE LESS THAN MINIMUM SPACING INDICATED FOR EACH ANCHOR TYPE ON THIS SCHEDULE.

ANCHOR TYPE		1/4"ø TAPCON	1/4"ø SOLID–SET	1/4"ø PANELMATE FEMALE ID	1/4"ø PANELMATE PLUS	1/4"ø CALK–IN
MINIMUM ANCHOR SPACING (in.)		3	3	3	3	2 1/2
MINIMUM EDGE DISTANCE (E.D.)	CONCRETE (in.)	3	3 1/2"	3"	3	3
	CONCRETE BLOCK (in.)	3	3 1/2"	3 1/2"	3 1/2	4
ACTUAL EDGE DISTANCE (E.D.)		FACTOR				
1 1/2"		0.35	–	–	–	–
2 1/2"		0.81	0.50	–	–	0.50
3"		0.90	0.78	–	1.00	0.63
3 1/2"		–	1.00	1.00	–	1.00

** SPACINGS ONLY VALID WHEN SPACER (9) IS USED. SEE TABLE #1 FOR MAX. A.S.D. DESIGN LOADS & MAX. PANEL LENGTHS WHEN SPACER (9A) IS USED.

TABLE #1 Δ	
A.S.D. DESIGN LOAD	MAXIMUM PANEL LENGTH
40 PSF OR LESS	6'–8"
> 40 PSF TO 50 PSF	6'–2"
> 50 PSF TO 60 PSF	5'–10"

Δ MAX. PANEL LENGTHS ARE ONLY VALID FOR INSTALLATIONS W/ SOLID SET ANCHORS & W/ (9A) SPACER AT 12 1/2" O.C.

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

12/5/2023

P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

©2023 TILTECO, INC.

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305) 871–1530 . Fax : (305) 871–1531
e–mail: tilteco@aol.com
CA–0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

24 GAGE GALVANIZED STEEL STORM PANEL

GLOBAL PROTECTION PRODUCTS, LLC.
4800 S.W. 51 STREET
DAVIE, FL. 33314
PHONE: (954)689–7545, FAX: (954)689–8797

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20–175	8/25/23	3		
2	NEW HILLMAN ANCHORS	11/6/23	4		

W.H DRAWN BY:

08/25/2023 DATE:

23–193 DRAWING No:

SHEET 10 OF 18

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR SPACING SCHEDULE FOR REGULAR STORM PANEL (1) INSTALLATIONS INTO CONCRETE & CONCRETE BLOCK STRUCTURES

(VALID ONLY FOR PANEL (1) INSTALLATIONS AS PER SECTIONS 1 THRU 6, ON SHEETS 4 & 5)
W/THE HILLMAN GROUP APPLICABLE ANCHORS)

MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM ANCHORS SPACING FOR MIN E.D. PER SCHEDULE BELOW *																APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	SOLID–SET 1/4" SCREW CS.			SOLID–SET #14 FEMALE CS.			SOLID–SET 1/4" SCREW 410 SS.			SOLID–SET #14 MALE CS.			SOLID–SET #14 MALE, 304 SS.					
	TO CONCRETE	TO GROUT FILLET	TO CONCRETE BLOCK	TO CONCRETE	TO GROUT FILLET	TO CONCRETE BLOCK	TO CONCRETE	TO GROUT FILLET	TO CONCRETE BLOCK	TO CONCRETE	TO GROUT FILLET	TO CONCRETE BLOCK	TO CONCRETE	TO GROUT FILLET	TO CONCRETE BLOCK			
>+65,–65 TO +75,–75	13"	11"	10 1/4"	13"	11"	8 1/4"	13"	11"	9 1/4"	13"	11"	8 1/4"	13"	11"	5 1/4"	1 (TOP)	5'–6" OR LESS	
	13"	11"	10 1/4"	13"	11"	8 1/4"	13"	11"	9 1/4"	13"	11"	8 1/4"	13"	11"	5 1/4"	1 (BOTTOM)		
	13"	11"	10 1/4"	13"	11"	8 1/4"	13"	11"	9 1/4"	13"	11"	8 1/4"	13"	11"	5 1/4"	2 (TOP)		
	13"	11"	10 1/4"	13"	11"	8 1/4"	13"	11"	9 1/4"	13"	11"	8 1/4"	13"	11"	5 1/4"	2 (BOTTOM)		
	13"	11"	10 1/4"	13"	11"	8 1/4"	13"	11"	9 1/4"	13"	11"	8 1/4"	13"	11"	5 1/4"	3 (TOP)		
	N/A	N/A	N/A	6 1/4"	6 1/4"	6 1/4"	N/A	N/A	N/A	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	N/A	3 (BOTTOM)		
	8"	5"	5"	8"	5"	4"	8"	5"	4 1/4"	8"	5"	4 1/4"	5"	5"	3"	4 (TOP)		
	8"	–	–	8"	–	–	8"	–	–	8"	–	–	5"	–	–	4 (BOTTOM)		
	13"	11"	10 1/4"	13"	11"	8 1/4"	13"	11"	9 1/4"	13"	11"	8 1/4"	13"	11"	5 1/4"	5 (TOP)		
	13"	11"	10 1/4"	13"	11"	8 1/4"	13"	11"	9 1/4"	13"	11"	8 1/4"	13"	11"	5 1/4"	5 (BOTTOM)		
	13"	11"	10 1/4"	13"	11"	8 1/4"	13"	11"	9 1/4"	13"	11"	8 1/4"	13"	11"	5 1/4"	6 (TOP)		
	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	5 1/4"	6 (BOTT.**)		
	13"	7 1/2"	6 1/2"	13"	7 1/2"	5 1/4"	13"	7 1/2"	6"	13"	9 1/2"	5 1/2"	13"	7 1/2"	3 1/2"	1 (TOP)	>5'–6" TO 8'–0"	
	13"	7 1/2"	7"	13"	7 1/2"	5 1/2"	13"	7 1/2"	6 1/4"	13"	7 1/2"	5 1/2"	13"	7 1/2"	3 1/2"	1 (BOTTOM)		
	13"	7 1/2"	6 1/2"	13"	7 1/2"	5 1/4"	13"	7 1/2"	6"	13"	7 1/2"	5 1/2"	13"	7 1/2"	3 1/2"	2 (TOP)		
	13"	7 1/2"	7 1/2"	13"	7 1/2"	5 1/2"	13"	7 1/2"	6 1/4"	13"	7 1/2"	5 1/2"	13"	7 1/2"	3 1/2"	2 (BOTTOM)		
	13"	7 1/2"	7"	13"	7 1/2"	5 1/2"	13"	7 1/2"	6 1/4"	13"	7 1/2"	5 1/2"	13"	7 1/2"	3 1/2"	3 (TOP)		
	N/A	N/A	N/A	6 1/4"	6 1/4"	N/A	N/A	N/A	N/A	6 1/4"	6 1/4"	N/A	6 1/4"	6 1/4"	N/A	3 (BOTTOM)		
	7 1/2"	3 1/2"	3 1/4"	8"	3 1/2"	3"	7 1/2"	3 1/2"	3"	7 1/2"	3 1/2"	3"	6 1/2"	3 1/2"	2	4 (TOP)		
	8"	–	–	8"	–	–	8"	–	–	8"	–	–	5"	–	–	4 (BOTTOM)		
	13"	7 1/2"	7"	13"	7 1/2"	5 1/2"	13"	7 1/2"	6 1/4"	13"	7 1/2"	5 1/2"	13"	7 1/2"	3 1/2"	5 (TOP)		
	13"	7 1/2"	7"	13"	7 1/2"	5 1/2"	13"	7 1/2"	6 1/4"	13"	7 1/2"	5 1/2"	13"	7 1/2"	3 1/2"	5 (BOTTOM)		
	13"	7 1/2"	6 1/2"	13"	7 1/2"	5 1/4"	13"	7 1/2"	6"	13"	7 1/2"	5 1/2"	13"	7 1/2"	3 1/2"	6 (TOP)		
	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	5 1/2"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	5 1/2"	6 1/4"	6 1/4"	3 1/2"	6 (BOTT.**)		

MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM ANCHORS SPACING FOR MIN E.D. PER SCHEDULE BELOW *																APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	SOLID–SET 1/4" SCREW CS.			SOLID–SET #14 FEMALE CS.			SOLID–SET 1/4" SCREW 410 SS.			SOLID–SET #14 MALE CS.			SOLID–SET #14 MALE, 304 SS.					
	TO CONCRETE	TO GROUT FILLET	TO CONCRETE BLOCK	TO CONCRETE	TO GROUT FILLET	TO CONCRETE BLOCK	TO CONCRETE	TO GROUT FILLET	TO CONCRETE BLOCK	TO CONCRETE	TO GROUT FILLET	TO CONCRETE BLOCK	TO CONCRETE	TO GROUT FILLET	TO CONCRETE BLOCK			
>+75,–75 TO +119,–119.6	12 1/2"	5"	4 1/4"	13"	5"	3 1/2"	13"	5"	4"	13"	5"	3 1/2"	10 1/4"	5"	2 1/4"	1 (TOP)	5'–6" OR LESS	
	13"	6 1/2"	6 1/4"	13"	6 1/2"	5"	13"	6 1/2"	5 1/2"	13"	6 1/2"	5"	13"	6 1/2"	3 1/4"	1 (BOTTOM)		
	12 1/2"	5"	4 1/2"	13"	5"	3 1/2"	13"	5"	4"	13"	5"	3 1/2"	10 1/4"	5"	2 1/4"	2 (TOP)		
	13"	7"	5"	13"	7"	5 1/4"	13"	7"	5"	13"	7"	5 1/4"	13"	7"	3 1/4"	2 (BOTTOM)		
	13"	7"	6 1/2"	13"	7"	5 1/4"	13"	7"	5 1/2"	13"	7"	5 1/4"	13"	7"	3 1/4"	3 (TOP)		
	N/A	N/A	N/A	6 1/4"	6 1/4"	5 1/4"	N/A	N/A	N/A	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	N/A	3 (BOTTOM)		
	7"	3"	3"	8"	3"	2 1/2"	7"	3"	2 1/2"	7"	3"	2 1/2"	6 1/4"	3"	1 1/2"	4 (TOP)		
	8"	–	–	8"	–	–	8"	–	–	8"	–	–	8"	–	–	4 (BOTTOM)		
	13"	6 1/2"	6 1/4"	13"	6 1/2"	5"	13"	6 1/2"	5 1/2"	13"	6 1/2"	5"	13"	6 1/2"	3 1/4"	5 (TOP)		
	13"	7"	6 1/2"	13"	7"	5 1/4"	13"	7"	5 1/2"	13"	7"	5 1/4"	13"	7"	3 1/4"	5 (BOTTOM)		
	12 1/2"	5"	4 1/2"	13"	5"	3 1/2"	13"	5"	4"	13"	5"	3 1/2"	10 1/4"	5"	2 1/4"	6 (TOP)		
	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	5 1/4"	6 1/4"	6 1/4"	5 1/2"	6 1/4"	6 1/4"	5 1/4"	6 1/4"	6 1/4"	3 1/4"	6 (BOTT.**)		
	13"	5"	5"	13"	5"	5"	13"	5"	5"	13"	5"	6 1/4"	13"	5"	4"	1 (TOP)	>5'–6" TO 7'–5"	
	13"	6 1/2"	6 1/2"	13"	6 1/2"	6 1/4"	13"	6 1/2"	6 1/2"	13"	6 1/2"	6 1/2"	13"	6 1/2"	4"	1 (BOTTOM)		
	13"	5"	5"	13"	5"	5"	13"	5"	5"	13"	5"	5"	13"	5"	4"	2 (TOP)		
	13"	7"	7"	13"	7"	6 1/4"	13"	7"	6 1/2"	13"	7"	6 1/4"	13"	7"	4"	2 (BOTTOM)		
	13"	7"	7 1/2"	13"	7"	6 1/4"	13"	7"	6 1/2"	13"	7"	6 1/4"	13"	7"	4"	3 (TOP)		
	N/A	N/A	N/A	6 1/4"	6 1/4"	N/A	N/A	N/A	N/A	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	N/A	3 (BOTTOM)		
	7"	3"	3"	8"	3"	3"	7"	3"	3"	7"	3"	3"	7"	3"	2"	4 (TOP)		
	8"	–	–	8"	–	–	8"	–	–	8"	–	–	8"	–	–	4 (BOTTOM)		
	13"	6 1/2"	6 1/2"	13"	6 1/2"	6 1/4"	13"	6 1/2"	6 1/2"	13"	6 1/2"	6 1/4"	13"	6 1/2"	4"	5 (TOP)		
	13"	7"	7"	13"	7"	6 1/4"	13"	7"	6 1/2"	13"	7"	6 1/4"	13"	7"	4"	5 (BOTTOM)		
	13"	5"	5"	13"	5"	5"	13"	5"	5"	13"	5"	5"	13"	5"	4"	6 (TOP)		
	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	4"	6 (BOTT.**)		

** SPACINGS ONLY VALID WHEN SPACER (9) IS USED. SEE TABLE #1 FOR MAX. A.S.D. DESIGN LOADS & MAX. PANEL LENGTHS WHEN SPACER (9A) IS USED.

TABLE #1 Δ	
A.S.D. DESIGN LOAD	MAXIMUM PANEL LENGTH
40 PSF OR LESS	6'–8"
> 40 PSF TO 50 PSF	6'–2"
> 50 PSF TO 60 PSF	5'–10"

Δ MAX. PANEL LENGTHS ARE ONLY VALID FOR INSTALLATIONS W/ HILLMAN MALE/FEMALE SOLID SET ANCHORS & W/ (9A) SPACER AT 12 1/2" O.C.

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

2/5/2023

P.E. SEAL/SIGNATURE/DATE

©2023 TILTECO, INC.

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Sta. 305, VIRGINIA GARDENS, Fl. 33166
Phone : (305) 871–1530 . Fax : (305) 871–1531
e–mail: tilteco@aol.com
CA–0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

24 GAGE GALVANIZED STEEL STORM PANEL

W.H DRAWN BY:

GLOBAL PROTECTION PRODUCTS, LLC.
4800 S.W. 51 STREET
DAVIE, FL. 33314
PHONE: (954)689–7545, FAX: (954)689–8797

08/25/2023 DATE:

23–193 DRAWING No:

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20–175	8/25/23	3		
2	NEW HILLMAN ANCHORS	11/8/23	4		

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR SPACING SCHEDULE FOR REGULAR STORM PANEL (1) INSTALLATIONS INTO WOOD STRUCTURES

(VALID ONLY FOR PANEL (1) INSTALLATIONS AS PER ALTERNATIVES 1W THRU 4W, ON SHEETS 6 & 7)

MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM ANCHORS SPACING FOR E.D. = AS SHOWN ON SHEETS 6 & 7				APPLICABLE TO ALTERNATIVES # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	TAPCON	LAG SCREW	ELCO PANELMATE FEMALE ID	ELCO PANELMATE PLUS		
+45, −45 OR LESS	13"	13"	13"	13"	1W (TOP)	5'−0" OR LESS
	13"	13"	13"	13"	1W (BOTTOM)	
	6 1/4"	6 1/4"	6 1/4"	6 1/4"	2W (TOP)	
	–	–	6 1/4"	12 1/2"	2W (BOTT.*)	
	8"	8"	8"	8"	3W (TOP)	
	8"	8"	8"	8"	3W (BOTTOM)	
	13"	13"	13"	13"	4W (TOP)	
	13"	13"	13"	13"	4W (BOTTOM)	
	13"	13"	13"	13"	1W (TOP)	>5'−0" TO 14'−4"
	13"	13"	13"	13"	1W (BOTTOM)	
	6 1/4"	6 1/4"	6 1/4"	6 1/4"	2W (TOP)	
	–	–	6 1/4"	12 1/2"	2W (BOTT.*)	
	4 1/2"	4"	6 1/2"	6 1/2"	3W (TOP)	
	4 1/2"	4 1/2"	7"	7"	3W (BOTTOM)	
	10 1/2"	9 1/2"	12"	12"	4W (TOP)	
	13"	13"	13"	13"	4W (BOTTOM)	

* SEE TABLE #1 FOR MAX. A.S.D. DESIGN LOADS & MAX. PANEL LENGTHS WHEN SPACER (9A) IS USED, CORRESPONDING ONLY TO ALTERNATE 2W' ON SHEET 6

MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM ANCHORS SPACING FOR E.D. = AS SHOWN ON SHEETS 6 & 7				APPLICABLE TO ALTERNATIVES # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	TAPCON	LAG SCREW	ELCO PANELMATE FEMALE ID	ELCO PANELMATE PLUS		
>+45, −45 TO +75, −75	13"	13"	13"	13"	1W (TOP)	5'−0" OR LESS
	13"	13"	13"	13"	1W (BOTTOM)	
	6 1/2"	6 1/4"	6 1/4"	6 1/4"	2W (TOP)	
	–	–	6 1/4"	12 1/2"	2W (BOTT.*)	
	7"	7 1/2"	8"	8"	3W (TOP)	
	7 1/2"	8"	8"	8"	3W (BOTTOM)	
	13"	13"	13"	13"	4W (TOP)	
	13"	13"	13"	13"	4W (BOTTOM)	
	13"	13"	13"	13"	1W (TOP)	>5'−0" TO 7'−5"
	13"	13"	13"	13"	1W (BOTTOM)	
	6 1/2"	6 1/4"	6 1/4"	6 1/4"	2W (TOP)	
	–	–	6 1/4"	12 1/2"	2W (BOTT.*)	
	4 1/2"	5"	7 1/2"	7 1/2"	3W (TOP)	
	5"	5 1/2"	8"	8"	3W (BOTTOM)	
	13"	12"	13"	13"	4W (TOP)	
	13"	13"	13"	13"	4W (BOTTOM)	

* SEE TABLE #1 FOR MAX. A.S.D. DESIGN LOADS & MAX. PANEL LENGTHS WHEN SPACER (9A) IS USED, CORRESPONDING ONLY TO ALTERNATE 2W' ON SHEET 6

TABLE #1 Δ	
A.S.D. DESIGN LOAD	MAXIMUM PANEL LENGTH
40 PSF OR LESS	6'−8"
> 40 PSF TO 50 PSF	6'−2"
> 50 PSF TO 60 PSF	5'−10"

Δ MAX. PANEL LENGTHS ARE ONLY VALID FOR INSTALLATIONS W/ ELCO PANEL MATE FEMALE ID OR ELCO PANEL MATE PLUS ANCHORS & W/ (9A) SPACER AT 12 1/2" O.C.

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

2/07/2023

P.E. SEAL/SIGNATURE/DATE

©2023 TILTECO, INC.

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, Fl. 33166
Phone : (305) 871-1530 . Fax : (305) 871-1531
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

24 GAGE GALVANIZED STEEL STORM PANEL

GLOBAL PROTECTION PRODUCTS, LLC.
4800 S.W. 51 STREET
DAVIE, FL. 33314
PHONE: (954)689-7545, FAX: (954)689-8797

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-175	8/25/23	3		
2	NEW HILLMAN ANCHORS	11/8/23	4		

W.H
DRAWN BY:

08/25/2023
DATE:

23-193
DRAWING No:

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR SPACING SCHEDULE FOR REGULAR STORM PANEL (1) INSTALLATIONS INTO WOOD STRUCTURES

(VALID ONLY FOR PANEL (1) INSTALLATIONS AS PER ALTERNATIVES 1W THRU 4W, ON SHEETS 6 & 7 W/THE HILLMAN GROUP APPLICABLE ANCHORS)

MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM ANCHORS SPACING FOR E.D. = AS SHOWN ON SHEETS 6 & 7					APPLICABLE TO ALTERNATIVES # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	SOLID–SET 1/4" SCREW CS.	SOLID–SET #14 FEMALE CS.	SOLID–SET 1/4" SCREW 410 SS.	SOLID–SET #14 MALE CS.	SOLID–SET #14 MALE 304 SS.		
+45, –45 OR LESS	13"	13"	13"	13"	13"	1W (TOP)	5'–0" OR LESS
	13"	13"	13"	13"	13"	1W (BOTTOM)	
	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	2W (TOP)	
	N/A	6 1/4"	N/A	6 1/4"	6 1/4"	2W (BOTT.*)	
	8"	8"	8"	8"	8"	3W (TOP)	
	8"	8"	8"	8"	8"	3W (BOTTOM)	
	13"	13"	13"	13"	13"	4W (TOP)	
	13"	13"	13"	13"	13"	4W (BOTTOM)	
	13"	13"	13"	13"	13"	1W (TOP)	>5'–0" TO 14'–4"
	13"	13"	13"	13"	13"	1W (BOTTOM)	
	6 1/2"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	2W (TOP)	
	N/A	6 1/4"	N/A	6 1/4"	6 1/4"	2W (BOTT.*)	
	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	3W (TOP)	
	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	3W (BOTTOM)	
	7 1/4"	7 1/2"	6 1/2"	7 1/2"	8 1/2"	4W (TOP)	
	13"	13"	13"	13"	13"	4W (BOTTOM)	

* SEE TABLE #1 FOR MAX. A.S.D. DESIGN LOADS & MAX. PANEL LENGTHS WHEN SPACER (9A) IS USED, CORRESPONDING ONLY TO ALTERNATE 2W' ON SHEET 6

MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM ANCHORS SPACING FOR E.D. = AS SHOWN ON SHEETS 6 & 7					APPLICABLE TO ALTERNATIVES # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	SOLID–SET 1/4" SCREW CS.	SOLID–SET #14 FEMALE CS.	SOLID–SET 1/4" SCREW 410 SS.	SOLID–SET #14 MALE CS.	SOLID–SET #14 MALE 304 SS.		
>+45, –45 TO +75, –75	13"	13"	13"	13"	13"	1W (TOP)	5'–0" OR LESS
	13"	13"	13"	13"	13"	1W (BOTTOM)	
	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	2W (TOP)	
	N/A	6 1/4"	N/A	6 1/4"	6 1/4"	2W (BOTT.*)	
	7"	7"	7"	7"	7"	3W (TOP)	
	7 1/2"	7 1/2"	7 1/2"	7 1/2"	7 1/2"	3W (BOTTOM)	
	13"	13"	13"	13"	13"	4W (TOP)	
	13"	13"	13"	13"	13"	4W (BOTTOM)	
	13"	13"	13"	13"	13"	1W (TOP)	>5'–0" TO 7'–5"
	13"	13"	13"	13"	13"	1W (BOTTOM)	
	6 1/2"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	2W (TOP)	
	N/A	6 1/4"	N/A	6 1/4"	6 1/4"	2W (BOTT.*)	
	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	3W (TOP)	
	5"	5"	5"	5"	5"	3W (BOTTOM)	
	9 1/2"	9 1/2"	8 1/2"	9 1/2"	11"	4W (TOP)	
	13"	13"	13"	13"	13"	4W (BOTTOM)	

* SEE TABLE #1 FOR MAX. A.S.D. DESIGN LOADS & MAX. PANEL LENGTHS WHEN SPACER (9A) IS USED, CORRESPONDING ONLY TO ALTERNATE 2W' ON SHEET 6

TABLE #1 Δ	
A.S.D. DESIGN LOAD	MAXIMUM PANEL LENGTH
40 PSF OR LESS	6'–8"
> 40 PSF TO 50 PSF	6'–2"
> 50 PSF TO 60 PSF	5'–10"

Δ MAX. PANEL LENGTHS ARE ONLY VALID FOR INSTALLATIONS W/ THE HILLMAN GROUP MALE/FEMALE SOLID SET ANCHORS & W/ (9A) SPACER AT 12 1/2" O.C.

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

1/5/2023

P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

©2023 TILTECO, INC.

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Sta. 305, VIRGINIA GARDENS, FL. 33166
Phone : (305) 871–1530 . Fax : (305) 871–1531
e–mail: tilteco@aol.com
CA–0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

24 GAGE GALVANIZED STEEL STORM PANEL

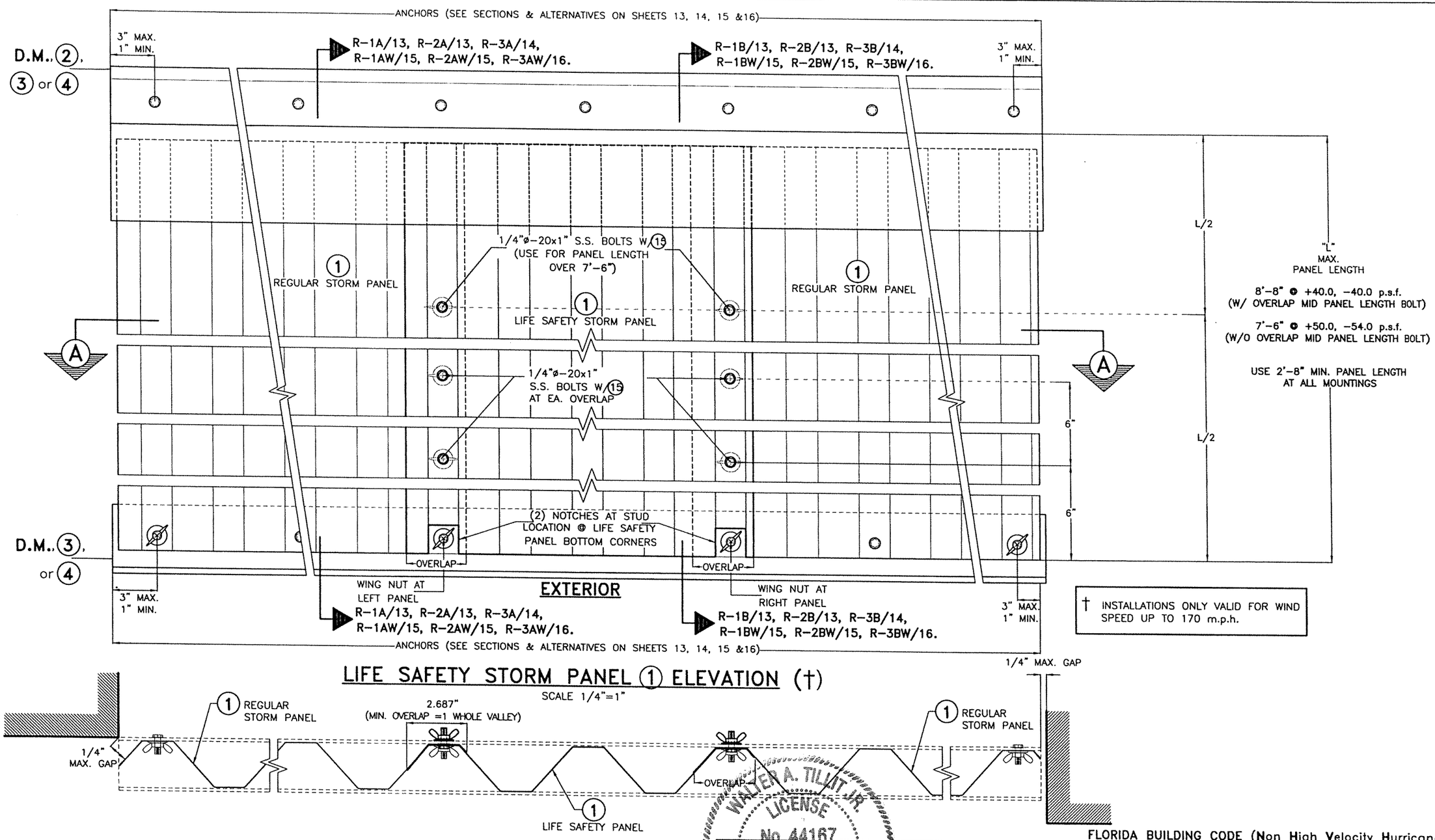
GLOBAL PROTECTION PRODUCTS, LLC.
4800 S.W. 51 STREET
DAVIE, FL 33314
PHONE: (954)689–7545, FAX: (954)689–8797

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20–175	8/25/23	3		
2	NEW HILLMAN ANCHORS	11/6/23	4		

W.H
DRAWN BY:

08/25/2023
DATE:

23–193
DRAWING No:



FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

©2023 TILTECO, INC.

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL. 33166
Phone : (305) 871-1530 . Fax : (305) 871-1531
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

24 GAGE GALVANIZED STEEL STORM PANEL

W.H
DRAWN BY:

GLOBAL PROTECTION PRODUCTS, LLC.
4800 S.W. 51 STREET
DAVIE, FL. 33314
PHONE: (954)689-7545, FAX: (954)689-8797

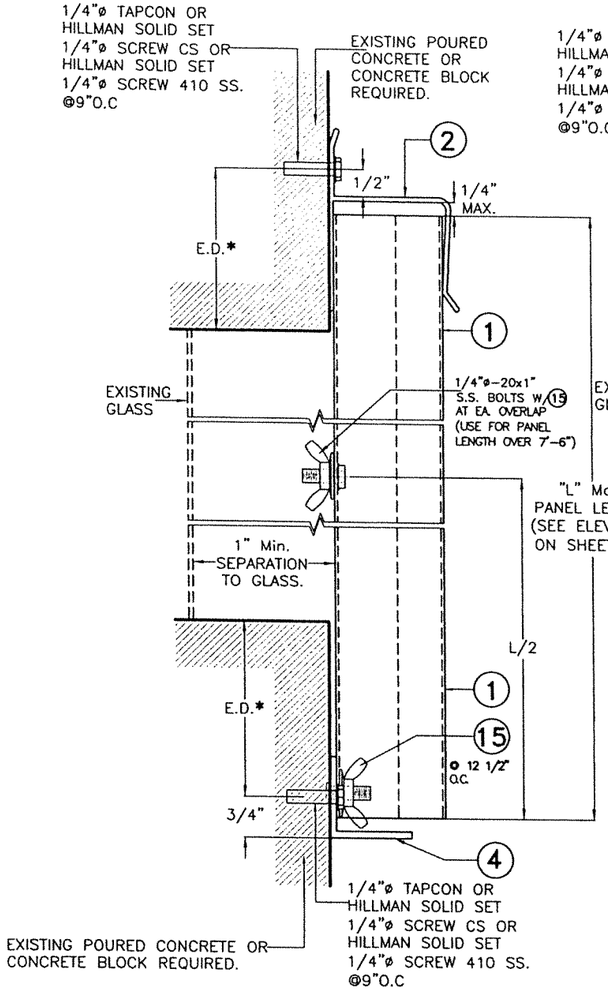
08/25/2023
DATE:

23-193
DRAWING No:

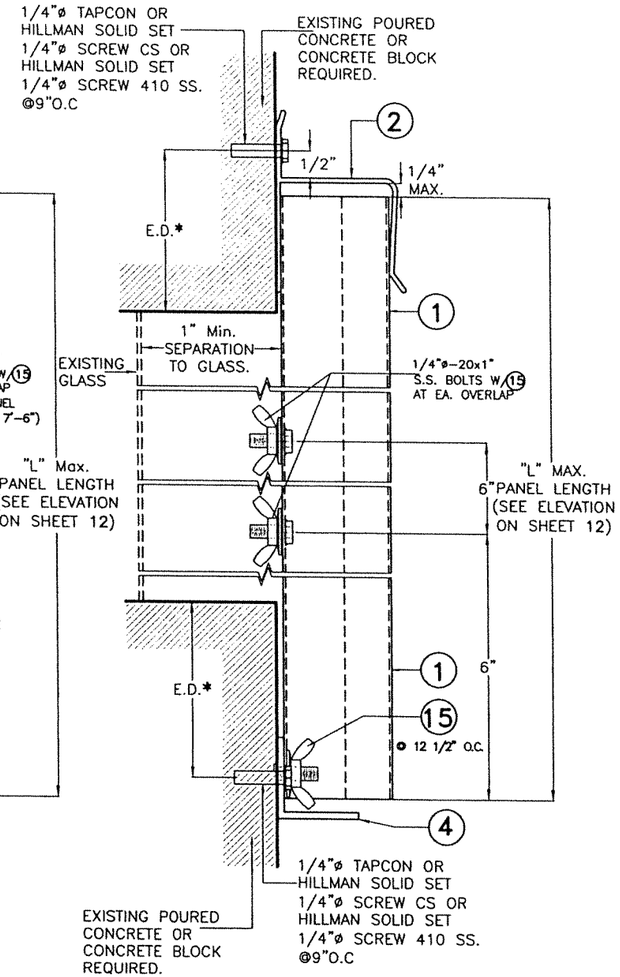
SHEET 12 OF 18

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-175	8/25/23	3		
2	NEW HILLMAN ANCHORS	11/8/23	4		

INSTALLATION DETAILS FOR LIFE SAFETY PANEL (1)
INTO POURED CONCRETE OR CONCRETE BLOCK STRUCTURES



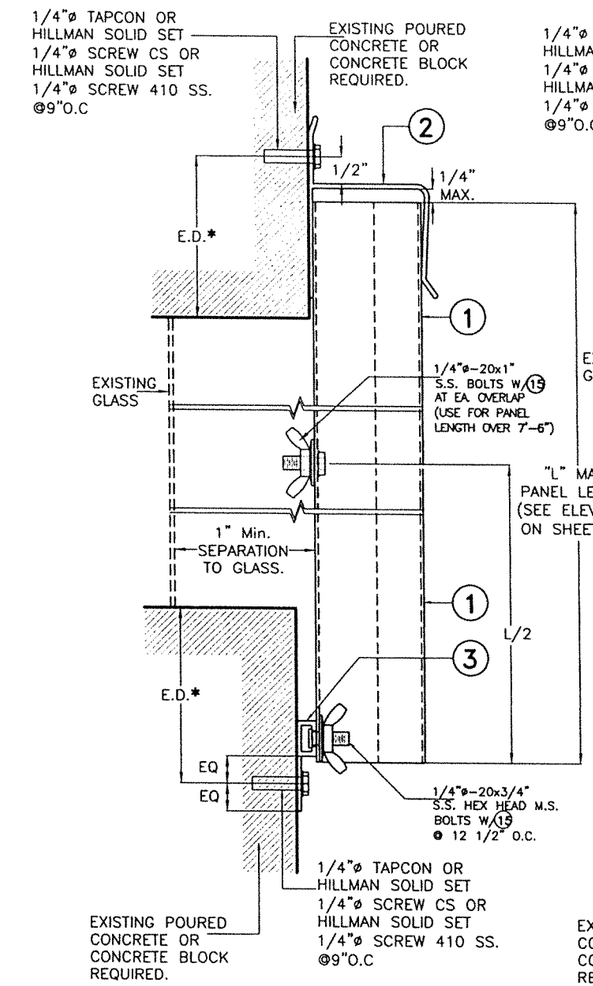
SECTION R-1A
@ REGULAR PANELS



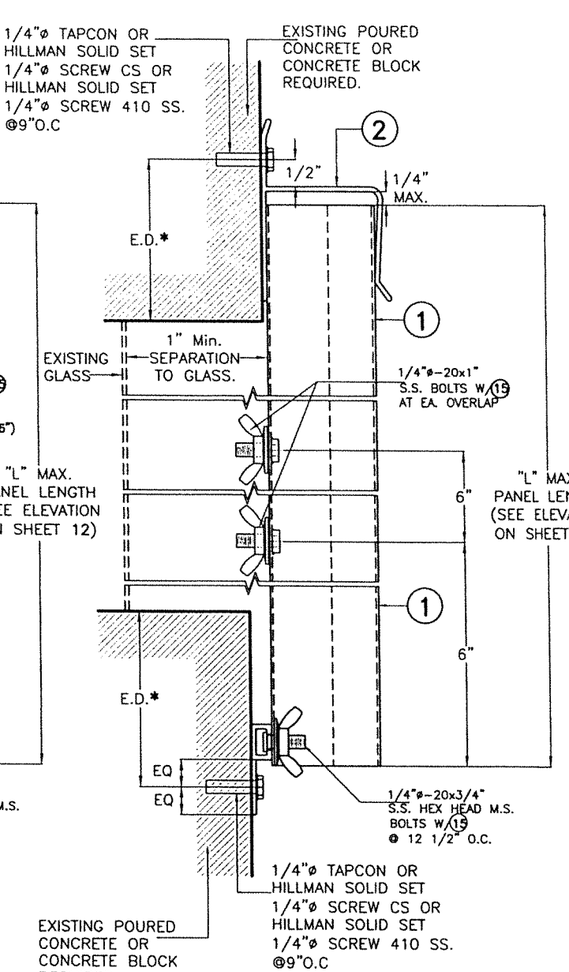
SECTION R-1B
@ LIFE SAFETY PANEL

WALL MOUNTINGS
SCALE 3/8=1"

SEE SHEETS 15 & 16 FOR ANCHORS TYPE & SPACING FOR INSTALLATIONS INTO WOOD FRAME BUILDINGS. MINIMUM ANCHOR SPACINGS AND MINIMUM EDGE DISTANCE ARE INDICATED ON THIS SCHEDULE. FOR E.D. LESS THAN INDICATED ON SCHEDULE REDUCE ANCHOR SPACING BY MULTIPLYING SPACING SHOWN ON SCHEDULE BY THE FOLLOWING FACTORS. FOR THIS OPERATION TO BE POSSIBLE, REDUCED SPACING OBTAINED USING FACTOR SHALL NOT BE LESS THAN MINIMUM SPACING INDICATED FOR EACH ANCHOR TYPE ON THIS SCHEDULE.	ANCHOR TYPE		1/4"ø TAPCON	1/4"ø HILLMAN SOLID SET SCREW CS	1/4"ø HILLMAN SOLID SET SCREW 410 SS.
	MINIMUM. ANCHOR SPACING (in.)		3	3	3
	*MINIMUM EDGE DISTANCE (E.D.)	Concrete (in.)	3	3	3
		GROUT FILLED (in.)	–	3	3
		Concrete Block (in.)	3	3	3
	ACTUAL EDGE DISTANCE (E.D.)		FACTOR		
	2 1/2"		0.90	–	–
SEE SHEET 1A FOR MIN EMBEDMENT OF ANCHORS					



SECTION R-2A
@ REGULAR PANELS



SECTION R-2B
@ LIFE SAFETY PANEL

WALL MOUNTINGS
SCALE 3/8=1"

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER
12/6/2023
P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

©2023 TILTECO, INC.

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL. 33166
Phone : (305) 871-1530 . Fax : (305) 871-1531
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

24 GAGE GALVANIZED STEEL STORM PANEL

W.H DRAWN BY:

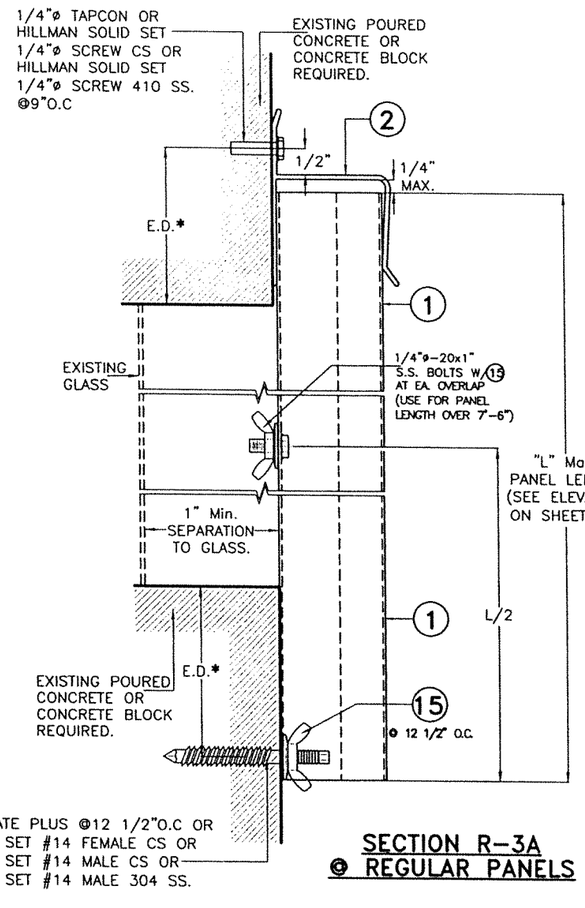
GLOBAL PROTECTION PRODUCTS, LLC.
4800 S.W. 51 STREET
DAVIE, FL. 33314
PHONE: (954)689-7545, FAX: (954)689-8797

08/25/2023 DATE:

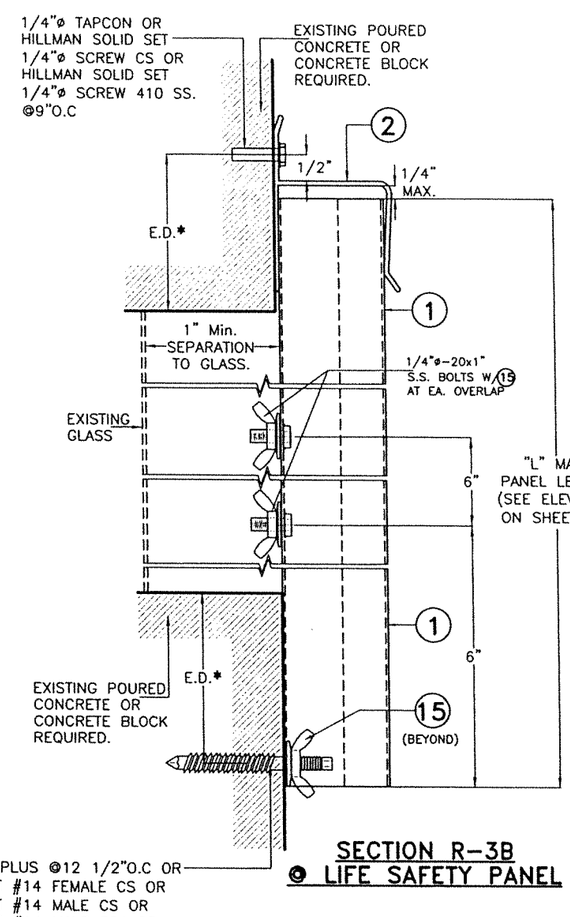
23-193 DRAWING No:

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-175	8/25/23	3		
2	NEW HILLMAN ANCHORS	11/6/23	4		

INSTALLATION DETAILS FOR LIFE SAFETY PANEL (1)
INTO POURED CONCRETE OR CONCRETE BLOCK STRUCTURES



SECTION R-3A
@ REGULAR PANELS



SECTION R-3B
@ LIFE SAFETY PANEL

WALL MOUNTINGS
SCALE 3/8=1"

SEE SHEETS 15 & 16 FOR ANCHORS TYPE & SPACING FOR INSTALLATIONS INTO WOOD FRAME BUILDINGS. MINIMUM ANCHOR SPACINGS AND MINIMUM EDGE DISTANCE ARE INDICATED ON THIS SCHEDULE. FOR E.D. LESS THAN INDICATED ON SCHEDULE REDUCE ANCHOR SPACING BY MULTIPLYING SPACING SHOWN ON SCHEDULE BY THE FOLLOWING FACTORS. FOR THIS OPERATION TO BE POSSIBLE, REDUCED SPACING OBTAINED USING FACTOR SHALL NOT BE LESS THAN MINIMUM SPACING INDICATED FOR EACH ANCHOR TYPE ON THIS SCHEDULE.

ANCHOR TYPE		1/4"ø TAPCON	1/4"ø ELCO PANELMATE PLUS	1/4"ø HILLMAN SOLID SET SCREW CS	1/4"ø HILLMAN SOLID SET SCREW 410 SS.	SOLID SET HILLMAN #14 FEMALE CS.	SOLID SET HILLMAN #14 MALE CS.	SOLID SET HILLMAN #14 MALE 304 SS.
MINIMUM. ANCHOR SPACING (in.)		3	3	3	3	3	3	3
*MINIMUM EDGE DISTANCE (E.D.)	Concrete (in.)	3	3	3	3	3	3	3
	GROUT FILLED (in.)	–	–	3	3	3	3	3
	Concrete Block (in.)	3	3 1/2	3	3	3	3	3
ACTUAL EDGE DISTANCE (E.D.)				FACTOR				
2 1/2"		0.90	–					

SEE SHEET 1A FOR MIN EMBEDMENT OF ANCHORS

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

1/7/2023

P.E. SEAL/SIGNATURE/DATE

©2023 TILTECO, INC.

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, Fl. 33166
Phone : (305) 871-1530 . Fax : (305) 871-1531
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

24 GAGE GALVANIZED STEEL STORM PANEL

W.H DRAWN BY:

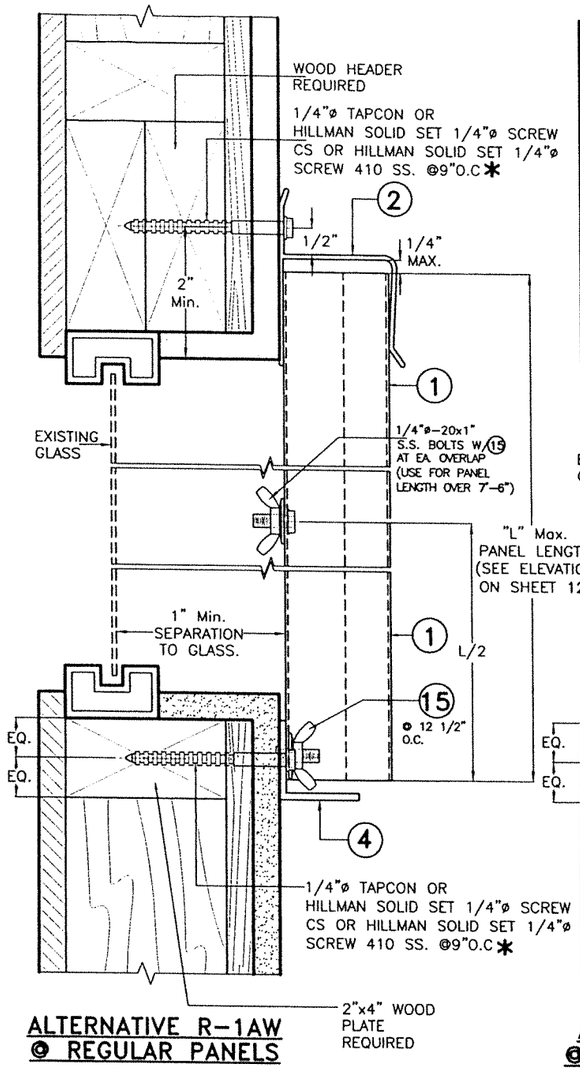
GLOBAL PROTECTION PRODUCTS, LLC.
4800 S.W. 51 STREET
DAVIE, FL. 33314
PHONE: (954)689-7545, FAX: (954)689-8797

08/25/2023 DATE:

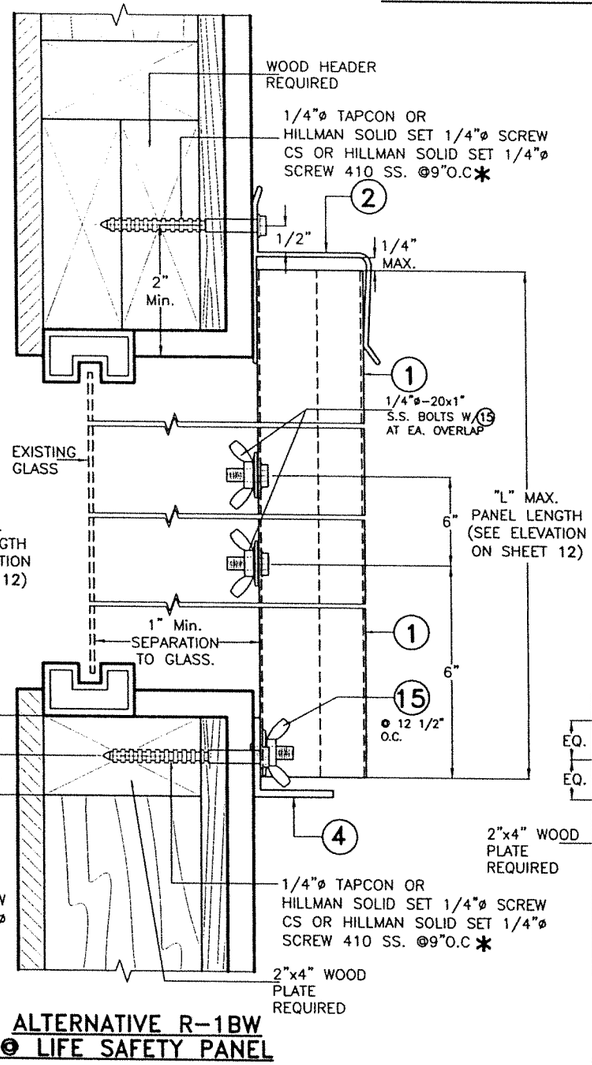
23-193 DRAWING No:

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-175	8/25/23	3		
2	NEW HILLMAN ANCHORS	11/6/23	4		

INSTALLATION DETAILS FOR LIFE SAFETY PANEL (1) INTO WOOD STRUCTURES

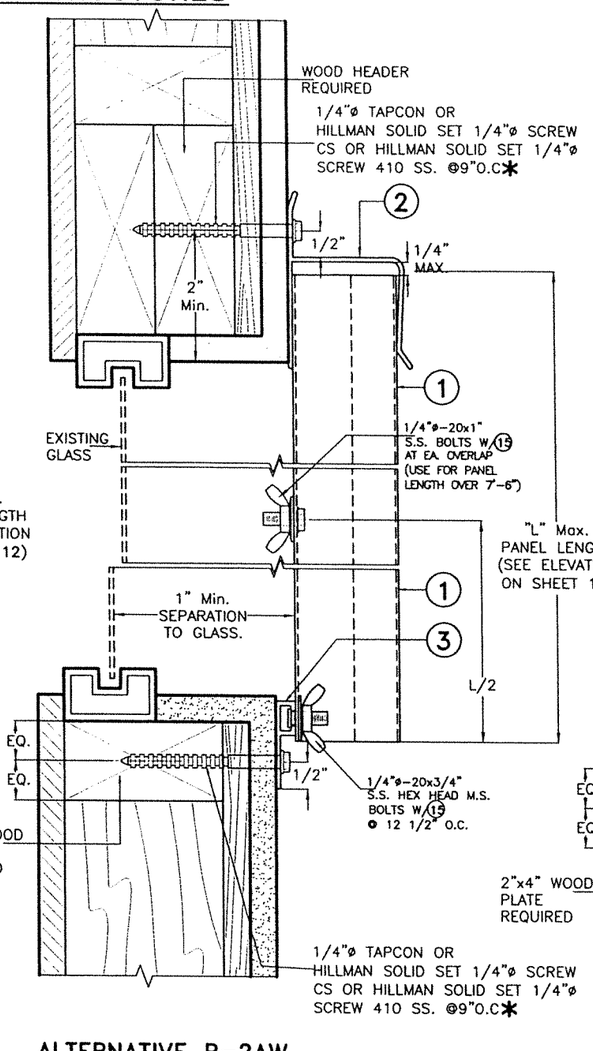


ALTERNATIVE R-1AW @ REGULAR PANELS

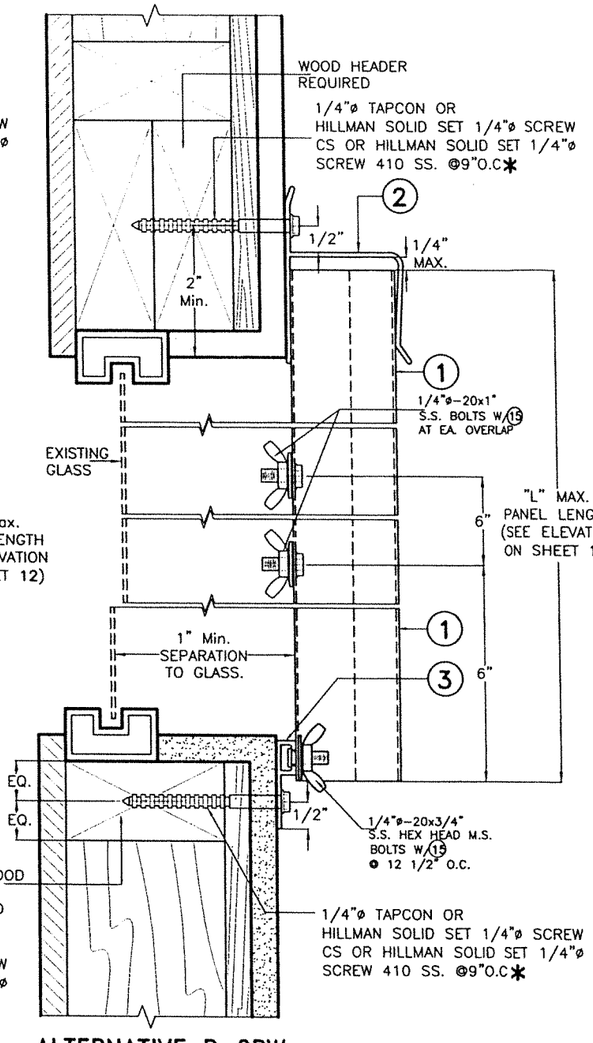


ALTERNATIVE R-1BW @ LIFE SAFETY PANEL

WALL MOUNTINGS
SCALE 3/8=1"



ALTERNATIVE R-2AW @ REGULAR PANELS



ALTERNATIVE R-2BW @ LIFE SAFETY PANEL

WALL MOUNTINGS
SCALE 3/8=1"

NOTES:

1. INSTALLATION ARE ONLY VALID FOR A.S.D. DESIGN PRESSURE RATINGS (p.s.f) AND PANEL LENGTHS AS PER ELEVATION ON SHEET **12.**
2. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.

✱ SEE SHEET 1A FOR MIN EMBEDMENT OF ANCHORS

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

©2023 TILTECO, INC.

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, Fl. 33166
Phone : (305) 871-1530 . Fax : (305) 871-1531
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

24 GAGE GALVANIZED STEEL STORM PANEL

GLOBAL PROTECTION PRODUCTS, LLC.
4800 S.W. 51 STREET
DAVIE, FL. 33314
PHONE: (954)689-7545, FAX: (954)689-8797

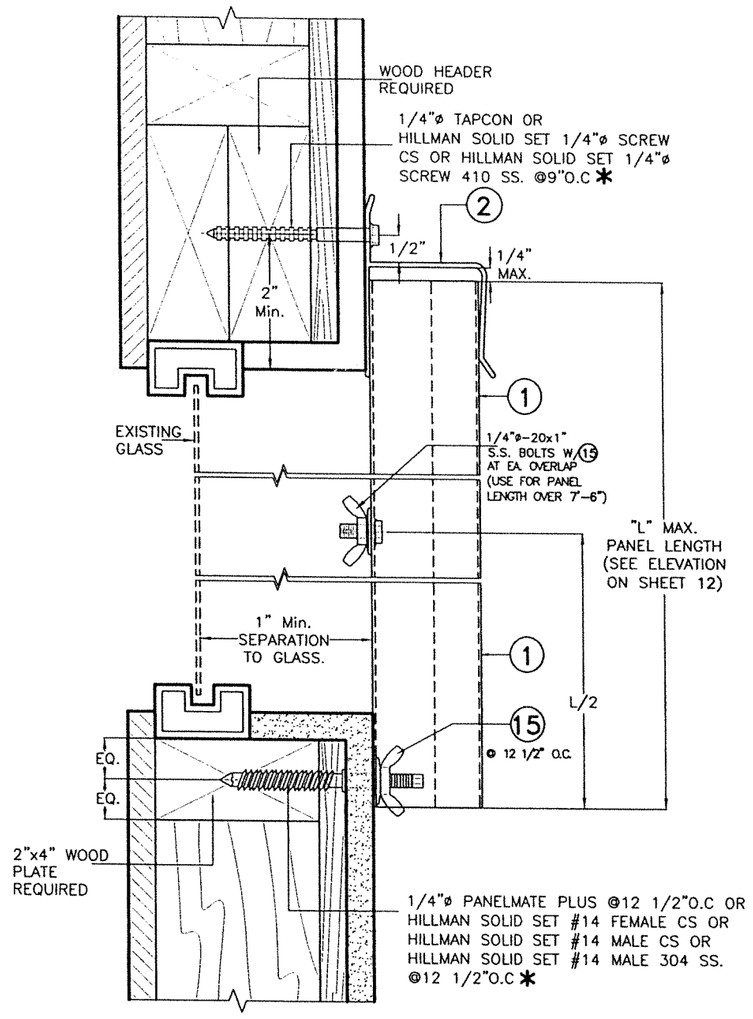
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-175	8/25/23	3		
2	NEW HILLMAN ANCHORS	11/6/23	4		

W.H
DRAWN BY:

08/25/2023
DATE:

23-193
DRAWING No:

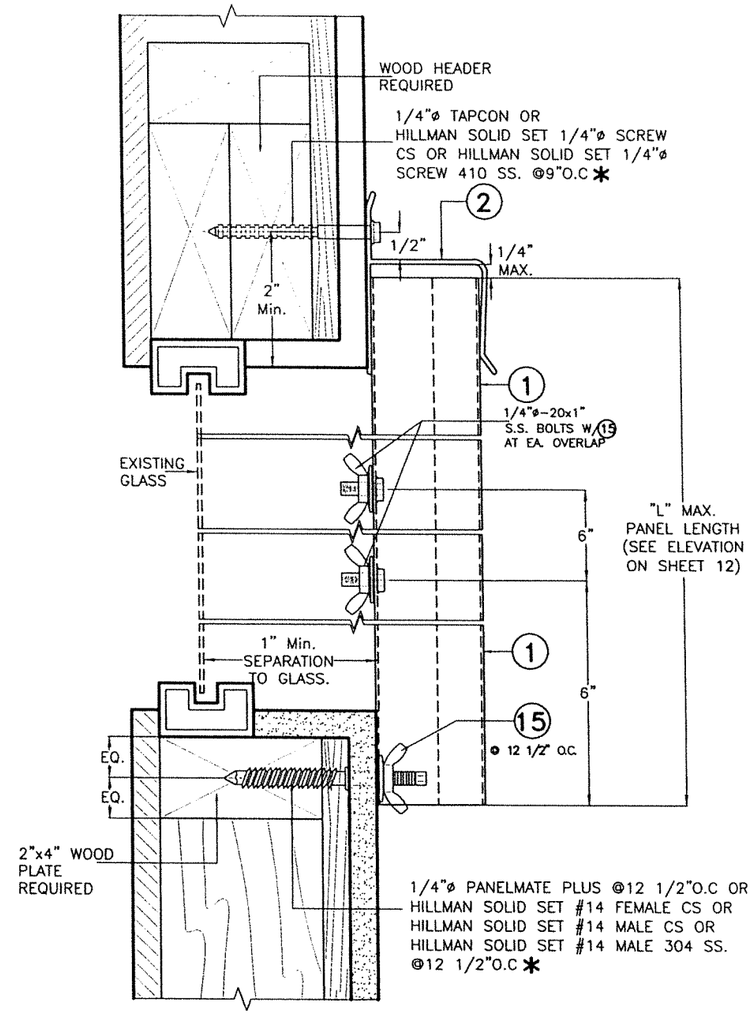
INSTALLATION DETAILS FOR LIFE SAFETY PANEL (1) INTO WOOD STRUCTURES



ALTERNATIVE R-3AW @ REGULAR PANELS

WALL MOUNTINGS

SCALE 3/8=1"



ALTERNATIVE R-3BW @ LIFE SAFETY PANEL

WALL MOUNTINGS

SCALE 3/8=1"

NOTES:

1. INSTALLATION ARE ONLY VALID FOR MAX. A.S.D. DESIGN PRESSURE RATINGS (p.s.f) AND PANEL LENGTHS AS PER ELEVATION ON SHEET **12.**
2. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.

✱ SEE SHEET 1A FOR MIN EMBEDMENT OF ANCHORS

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

©2023 TILTECO, INC.

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, Fl. 33166
Phone : (305) 871-1530 . Fax : (305) 871-1531
e-mail: 1iteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

24 GAGE GALVANIZED STEEL STORM PANEL

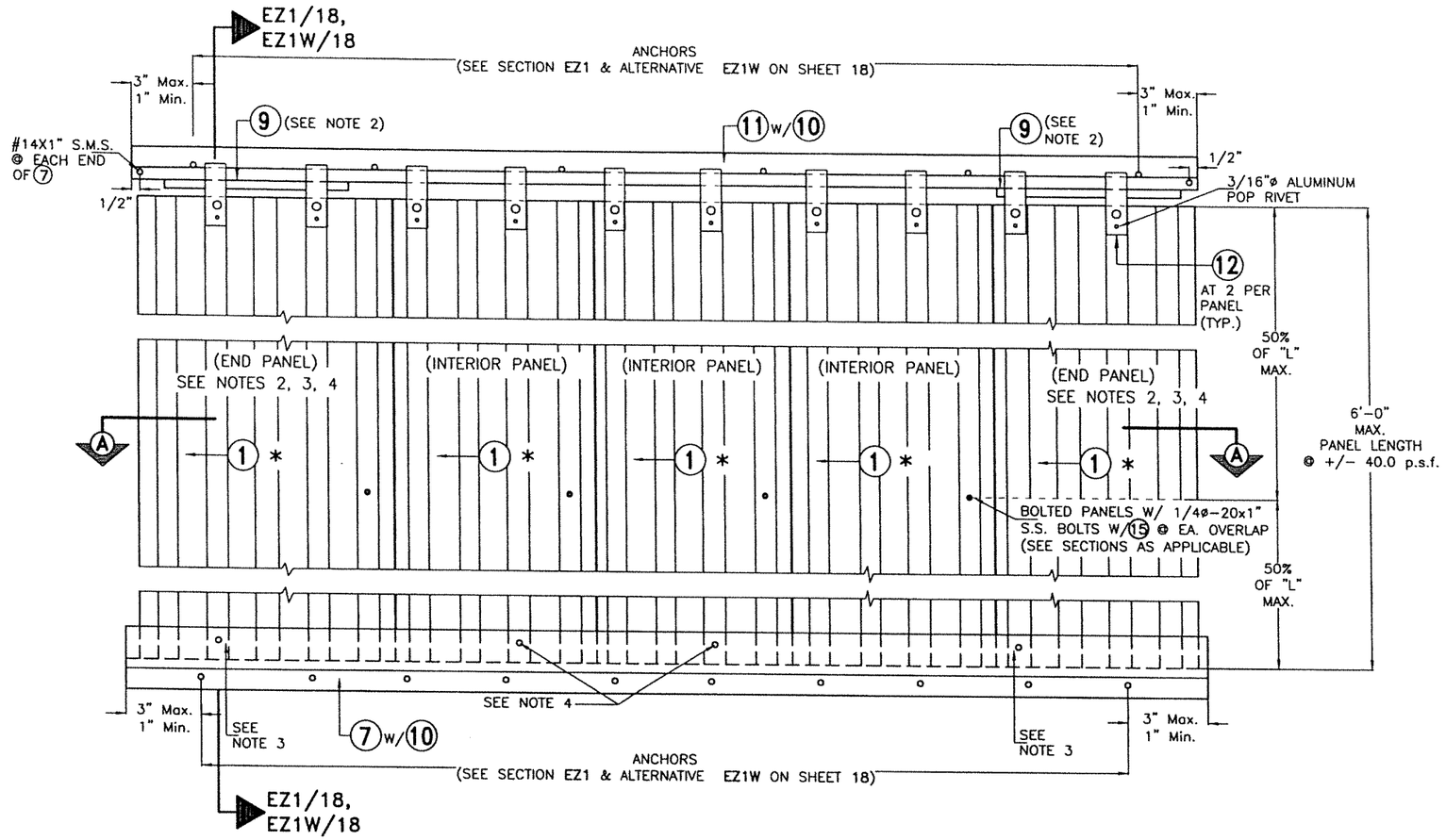
W.H
DRAWN BY:

GLOBAL PROTECTION PRODUCTS, LLC.
4800 S.W. 51 STREET
DAVIE, FL. 33314
PHONE: (954)689-7545, FAX: (954)689-8797

08/25/2023
DATE:

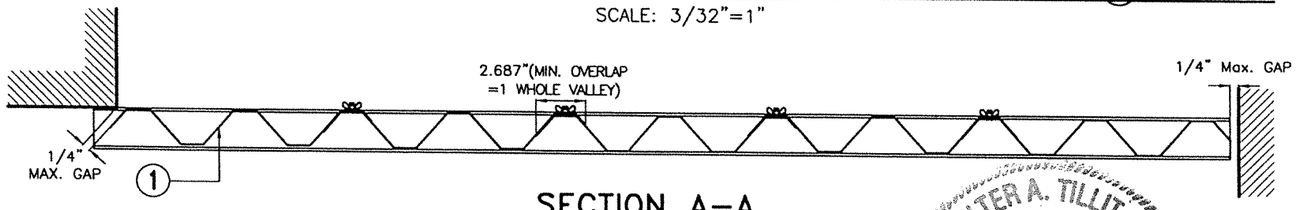
23-193
DRAWING No:

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-175	8/25/23	3		
2	NEW HILLMAN ANCHORS	11/6/23	4		



TYPICAL ELEVATION FOR SERIES 2000 E-Z HANG STORM PANEL (1) SYSTEM (†)

SCALE: 3/32"=1"



SECTION A-A

SCALE: 3/32"=1"

* LAST PANEL (1) TO BE INSTALLED AT EACH OPENING SHALL ALWAYS BE PROVIDED W/ REAR HANDLE TO FACILITATE INSTALLATION IF INTENDED TO BE INSTALLED FROM INSIDE OF STRUCTURE.

NOTES :

(1). DEFINITION OF SERIES 2000: E-Z HANG STORM PANEL SYSTEM CONSISTING OF PANEL + Cont. TRACKS TOP & BOTTOM.

(2). END PANELS SHALL ALWAYS BE CONNECTED TO BOTTOM TRACK OTHERWISE A STOP BAR (9) SHALL BE PROVIDED AT TOP OF SUCH PANELS.

(3). IF END PANELS ARE CONNECTED TO BOTTOM TRACK, CONNECTION SHALL CONSIST OF 1/4"ø-20x3/4" M.S. W/ 7/8"øx3/32" WING NUT OR 1/4"øx3/4" Min. THUMBSCREW INTO TAPPED BOTTOM TRACK. LOCATION OF FASTENERS MAY BE AT EITHER OF TWO EXTERIOR FLAT FLANGES OF END PANEL.

(4). IN CASE THAT END PANELS ARE NOT CONNECTED TO BOTTOM TRACK (i.e. A STOP BAR IS ONLY USED AT TOP) AT LEAST TWO PANELS SHALL BE CONNECTED TO BOTTOM TRACK USING SPECS INDICATED ON NOTE (3) ABOVE. IN SUCH CASE, CONNECTION OF PANELS TO BOTTOM TRACK MAY OCCUR AT ANY PANEL LOCATION.

† INSTALLATIONS ONLY VALID FOR WIND SPEED UP TO 170 m.p.h.

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

P.E. SEAL/SIGNATURE/DATE

©2023 TILTECO, INC.

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305) 871-1530 . Fax : (305) 871-1531
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

24 GAGE GALVANIZED STEEL STORM PANEL

GLOBAL PROTECTION PRODUCTS, LLC.
4800 S.W. 51 STREET
DAVIE, FL. 33314
PHONE: (954)689-7545, FAX: (954)689-8797

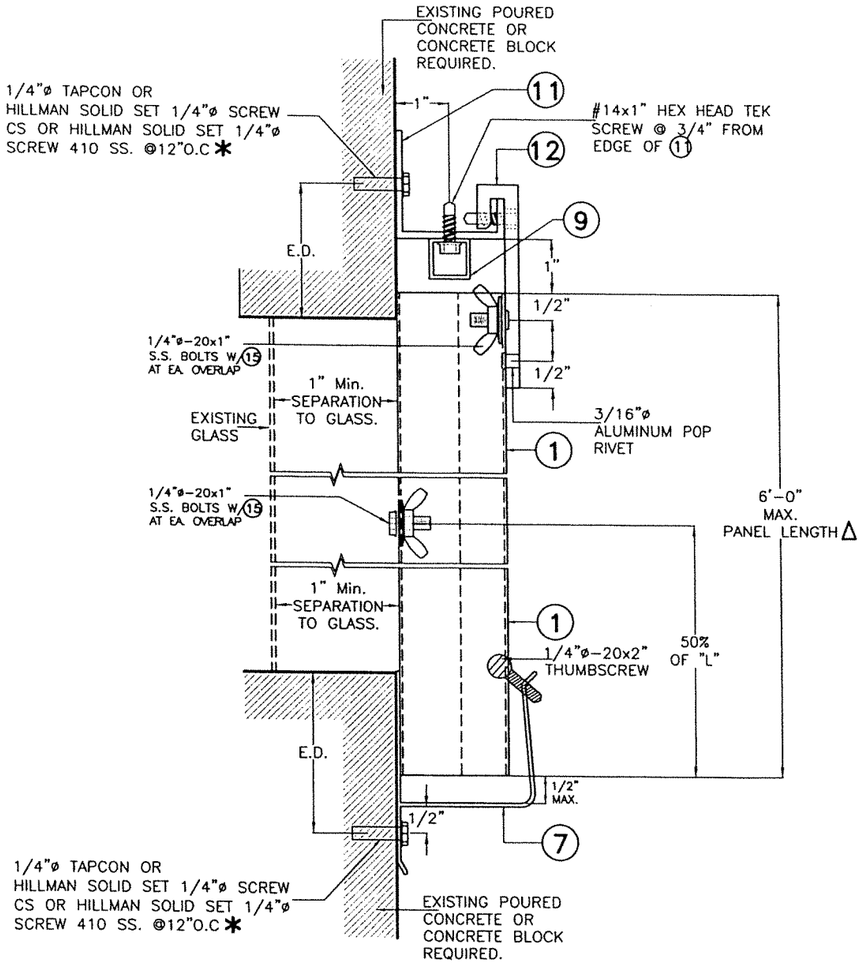
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-175	8/25/23	3		
2	NEW HILLMAN ANCHORS	11/8/23	4		

W.H
DRAWN BY:

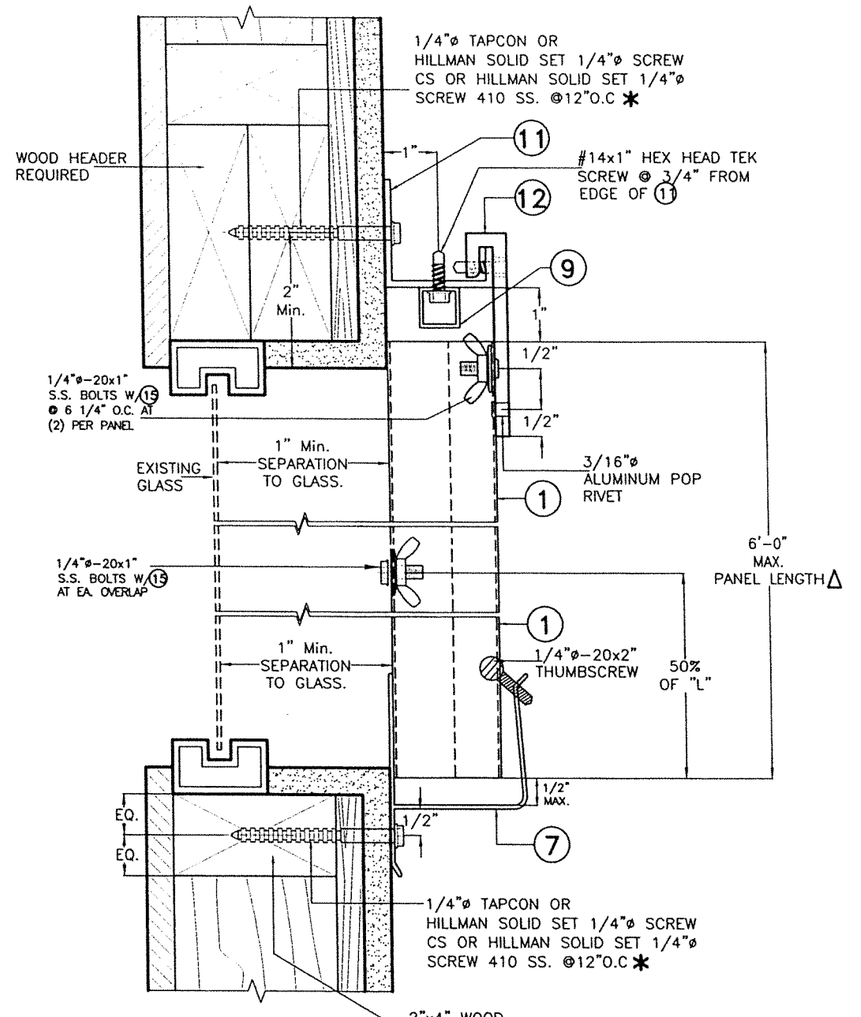
08/25/2023
DATE:

23-193
DRAWING No:

INSTALLATION DETAILS FOR SERIES 2000 E-Z HANG STORM PANEL (1) INTO POURED CONCRETE, CONCRETE BLOCK AND WOOD STRUCTURES



WALL MOUNTING SECTION EZ1
SCALE 3/8=1"



WALL MOUNTING ALTERNATIVE EZ1W
SCALE 3/8=1"

NOTES:

1. INSTALLATION ARE ONLY VALID FOR MAX. A.S.D. DESIGN PRESSURE RATING +/- 40.0 p.s.f. AND 6'-0" MAX PANEL LENGTH.
2. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.

✱ SEE SHEET 1A FOR MIN EMBEDMENT OF ANCHORS

Δ MIN. PANEL LENGTH SHALL BE 2'-6"

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

12/5/2023

P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

©2023 TILTECO, INC.

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL. 33166
Phone : (305) 871-1530 . Fax : (305) 871-1531
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

24 GAGE GALVANIZED STEEL STORM PANEL

W.H
DRAWN BY:

GLOBAL PROTECTION PRODUCTS, LLC.
4800 S.W. 51 STREET
DAVIE, FL. 33314
PHONE: (954)689-7545, FAX: (954)689-8797

08/25/2023
DATE:

23-193
DRAWING No:

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-175	8/25/23	3		
2	NEW HILLMAN ANCHORS	11/6/23	4		

SHEET 18 OF 18