

GENERAL NOTES:

1. IMPACT PROTECTIVE ROLLING SYSTEM WITH CDH-6 SLAT (END RETENTION) 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.
2. THIS PRODUCT MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES. DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1620 OF THE ABOVE MENTIONED CODE, USING ASCE 7-22 AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 8 THRU 11, 13 THRU 16, 18, 19 AND 20 THRU 22. IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-22 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ABOVE.
- IN ORDER TO VERIFY THAT COMPONENTS AND ANCHORS ON THIS P.E.D. AS TESTED WERE NOT OVER STRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS. FASTENERS SPACING TO WOOD HAVE BEEN DETERMINED IN ACCORDANCE WITH N.D.S. 2018. THIS PRODUCT'S ADEQUACY FOR IMPACT AND WIND RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1626 OF THE ABOVE MENTIONED CODE AS PER BLACK WATER TEST LAB. REPORT # BT-JUP-19-001 AS PER TAS-201, TAS-202 AND TAS-203 PROTOCOLS.
3. ALL ALUMINUM EXTRUSIONS SHALL BE 6063-T6 ALLOY (UNLESS OTHERWISE NOTED), SEE SHEET 2. ALL ALUMINUM EXTRUSIONS IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III-6 OF THE 2020 ALUMINUM DESIGN MANUAL.
4. ALL SCREWS (EXCEPT WIND LOCK SCREW (E)) TO BE STAINLESS STEEL 304 OR 316 SERIES WITH 50 ksi YIELD STRENGTH AND 90 ksi TENSILE STRENGTH OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018. ALL S.D.S. ARE TEK SCREWS MANUFACTURED BY ITW BUILDEX & SHALL COMPLY W/FLORIDA BUILDING CODE SECTION 2411.3.3.4.
5. BOLTS TO BE ASTM A-307, GALVANIZED OR AISI 304 OR 316 SERIES STAINLESS STEEL WITH 36 ksi MINIMUM YIELD STRENGTH.
6. THIS PRODUCT BEARS U.S. PATENT.
7. ANCHORS TO WALL FOR (C) SIDE RAIL SHALL BE AS FOLLOWS:
- (A) TO EXISTING POURED CONCRETE: MIN. 3000 p.s.i. COMPRESSIVE STRENGTH.
- 5/16" TAPCON XL ANCHORS AS MANUFACTURED BY ITW BUILDEX, INC.
-3/8" S.S KWIK BOLT 3 ANCHORS AS MANUFACTURED BY HILTI, INC.
-3/8" CONFLEX SCREW AS MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS.
- A.1) MINIMUM EMBEDMENT INTO POURED CONCRETE SHALL BE:
2 1/4" FOR 5/16" TAPCON XL ANCHORS, 2 3/8" FOR 3/8" KWIK BOLT 3 ANCHORS & 3 1/2" FOR ELCO CONFLEX. NO EMBEDMENT INTO STUCCO SHALL BE CONSIDERED AS PART OF THE REQUIRED EMBEDMENT.
- A.2) MINIMUM EDGE DISTANCE (E.D.) INTO POURED CONCRETE SHALL BE:
3" FOR 5/16" TAPCON XL & 4 1/2" FOR 3/8" KWIK BOLT 3 AND CONFLEX ANCHORS. EDGE DISTANCE IS BEYOND ANY FINISH MATERIAL.
- A.3) IN CASE THAT PRECAST STONE, PRECAST CONCRETE OR BRICK PANELS, VENEER OR PAVERS BE FOUND ON THE EXISTING WALL, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS.
- (B) TO EXISTING MIN. f'c= 2 ksi GROUT FILLED CELL CONCRETE BLOCK WALL: ASTM C-90
- 5/16" TAPCON XL ANCHORS, AS MANUFACTURED BY ITW BUILDEX, INC.
-3/8" S.S KWIK BOLT 3 ANCHORS AS MANUFACTURED BY HILTI INC.
- B.1) MINIMUM EMBEDMENT OF 5/16" TAPCON XL ANCHORS INTO THE GROUT FILLED CELL CONCRETE BLOCK UNIT SHALL BE 2 1/4" & 2 1/2" FOR HILTI KWIK BOLT 3. NO EMBEDMENT INTO STUCCO SHALL BE CONSIDERED AS PART OF THE REQUIRED EMBEDMENT.
- B.2) MINIMUM EDGE DISTANCE (E.D.) OF 5/16" TAPCON XL ANCHORS & KWIK BOLT 3 INTO GROUT FILLED CELL CONCRETE BLOCK SHALL BE 4". EDGE DISTANCE IS BEYOND ANY FINISH MATERIAL.
- B.3) IN CASE THAT PRECAST STONE, PRECAST CONCRETE OR BRICK PANELS, VENEER OR PAVERS BE FOUND ON THE EXISTING WALL, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS.
- (C) TO EXISTING WOOD FRAME BUILDING: SPRUCE PINE-FIR-SOUTH (G=0.36), DOUGLAS-FIR-SOUTH (G=0.46) OR SOUTHERN PINE #2 W/ G = 0.55 MIN.
- 5/16" TAPCON XL OR MAXISET ANCHORS, AS MANUFACTURED BY ITW BUILDEX, INC. OR 5/16" ELCO CONSTRUCTION PRODUCTS ULTRA CON.
- C.1) MINIMUM EMBEDMENT OF TAPCON XL ANCHORS, MAXISET OR ULTRA CONS INTO THE WOOD FRAME UNIT SHALL BE 1 1/4" PHYSICAL THREADED PENETRATION. NO EMBEDMENT INTO FINISH MATERIAL SHALL BE CONSIDERED AS PART OF THE REQUIRED EMBEDMENT.
- C.2) MINIMUM EDGE DISTANCE (E.D.) OF TAPCON XL ANCHORS, MAXISET OR ULTRA CONS INTO WOOD SHALL BE 2 1/4". EDGE DISTANCE IS BEYOND ANY FINISH MATERIAL.
- C.3) IN CASE THAT PRECAST STONE, PRECAST CONCRETE OR BRICK PANELS, VENEER OR PAVERS BE FOUND ON THE EXISTING WALL, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS.
8. ANCHORS SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER.

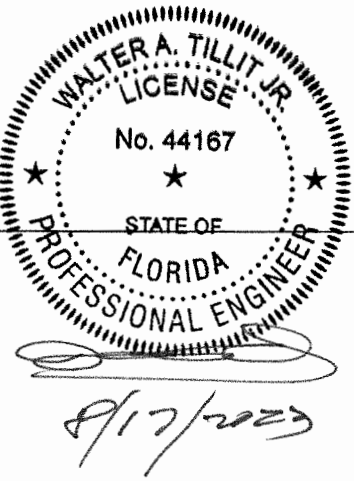
9. SHUTTER MAY BE INSTALLED WITH SLAT'S CONCAVE SIDE FACING IN OR OUT.
10. ANCHORS REQUIRED FOR MULLION CONNECTIONS TO CONCRETE SHALL BE AS SPECIFIED ON APPLICABLE SECTIONS SHOWN ON SHEETS 8, 9, 10 & 11.
- S.S KWIK BOLT 3 EXPANSION ANCHOR MANUFACTURED BY HILTI, INC.
- CONFLEX SCREW ANCHOR MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS.

MINIMUM EDGE DISTANCE FOR ABOVE MENTIONED ANCHORS SHALL BE AS INDICATED BELOW OR AT ABOVE MENTIONED SHEETS. EDGE DISTANCE AND EMBEDMENTS ARE BEYOND ANY FINISH MATERIAL.

ANCHOR	EDGE DISTANCE Ø 100%	EMBEDMENT Ø 100% CONCRETE	REQ. MIN. THICKNESS FOR SUBSTRATE
3/4" KWIK BOLT 3	14"	5 1/2" (3000 psi)	10"
1/2" KWIK BOLT 3	8"	3 1/2" (3000 PSI)	8"
3/8" KWIK BOLT 3	4 1/2"	2 3/8" (3000 PSI)	6"
3/8" CONFLEX SCREW	4"	2 5/8" (3000 PSI)	6"
1/2" CONFLEX	6"	3 1/2" (3000 PSI)	6"
5/8" HILTI HUS-H SCREW	7 1/2"	2 1/2" (3000 PSI)	4"

11. THE INSTALLATION CONTRACTOR IS TO SEAL/CAULK ALL PRODUCT COMPONENT EDGES WHICH REMAIN IN CONTINUOUS CONTACT WITH THE BUILDING TO PREVENT WIND/RAIN INTRUSION. CAULK AND SEAL PRODUCT TRACKS ALL AROUND FULL LENGTH.
12. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE WHERE PRODUCT IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE. THIS PRODUCT SHALL ONLY BE ATTACHED TO CONCRETE, GROUTED CONCRETE BLOCK OR WOOD FRAME BUILDINGS.
13. THIS PRODUCT'S INSTALLATION SHALL COMPLY WITH ALL SPECS INDICATED IN THIS DRAWING PLUS ANY BUILDING AND ZONING REGULATIONS PROVIDED BY THE JURISDICTION WHERE PERMIT IS APPLIED TO.
14. LIFTING MECHANISM NOT PART OF THIS APPROVAL.
15. (a) THIS P.E.D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS 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.
16. PRODUCT MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT PRODUCT IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABELING TO COMPLY WITH SECTION 1709.9.2 OF THE FLORIDA BUILDING CODE.

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



P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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CA-0006719

WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

IMPACT PROTECTIVE ROLLING SYSTEM
WITH CHD-6 SLAT (END RETENTION)



ADVANCED HURRICANE TECHNOLOGY INC.
16501 OLD AIRPORT
HAUL RD. FORT MYERS,
FL 33913

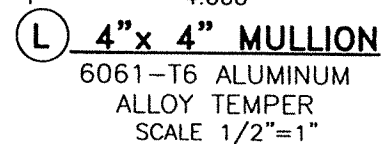
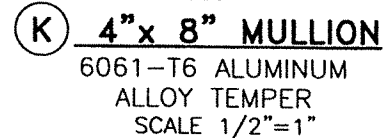
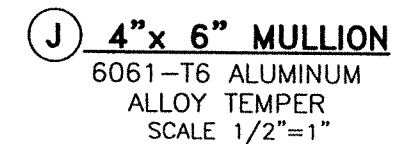
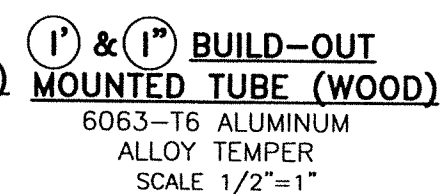
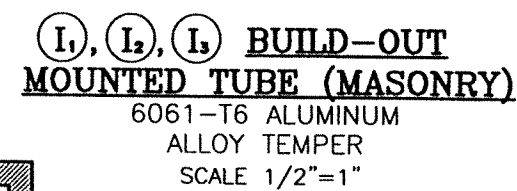
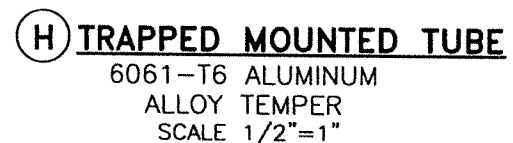
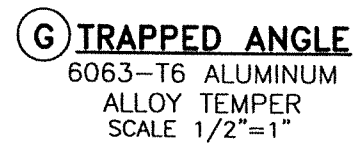
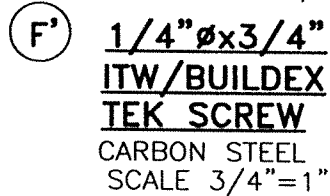
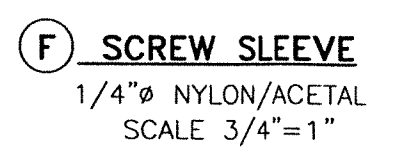
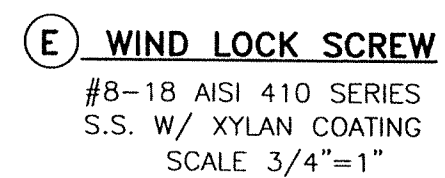
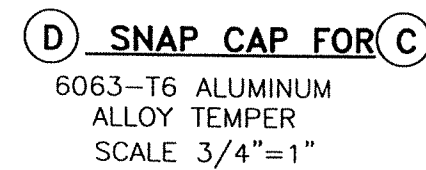
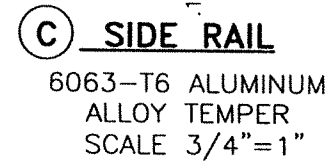
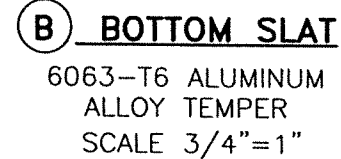
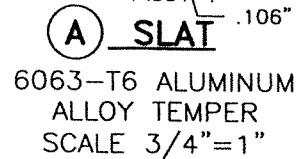
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Y.M.
DRAWN BY:

08/17/2023
DATE:

23-185
DRAWING No.

SHEET 1 OF 22



FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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TILTIT TESTING & ENGINEERING COMPANY
6300 N.W. 39th St., Ste. 303, VIRGINIA GARDENS, FL 33118
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WALTER A. TILIT Jr. P.E.
FLORIDA Lic. # 44187

IMPACT PROTECTIVE ROLLING SYSTEM WITH CHD-6 SLAT (END RETENTION)



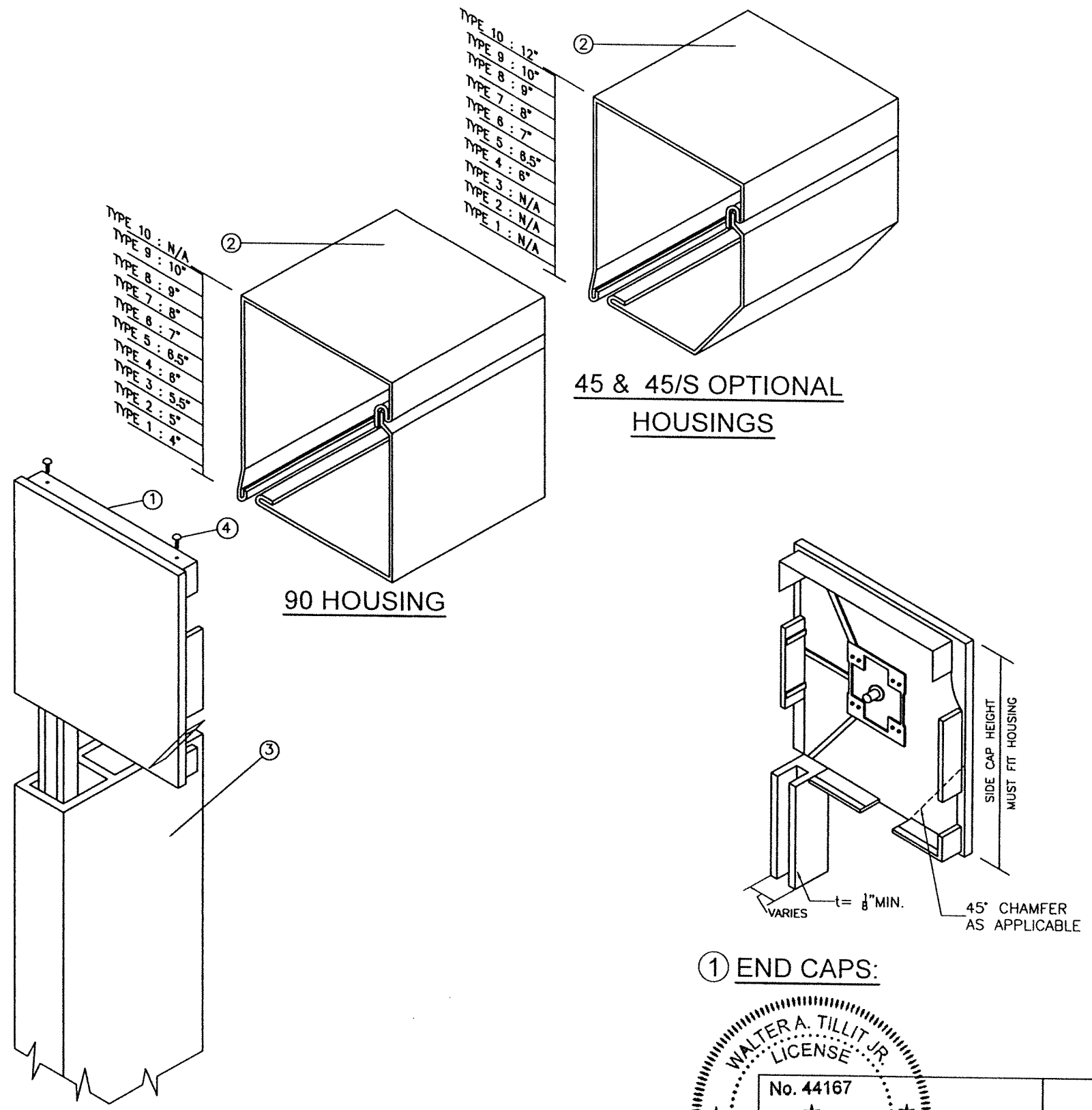
**ADVANCED
HURRICANE
TECHNOLOGY INC.**
16501 OLD, AIRPORT
HAUL RD. FORT MYERS,
FL 33913

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DATE: 3/17/2023

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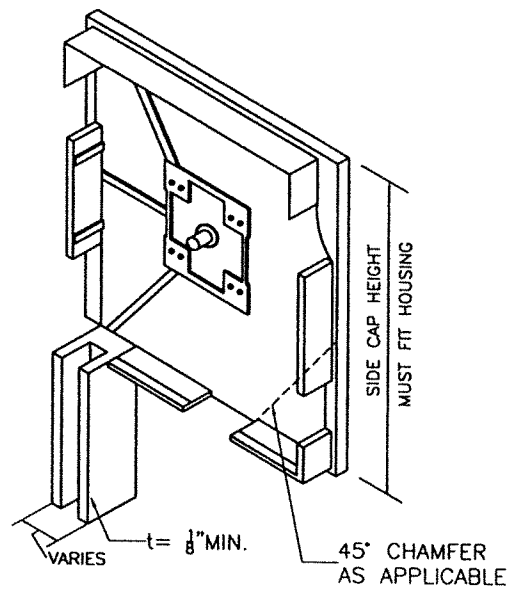
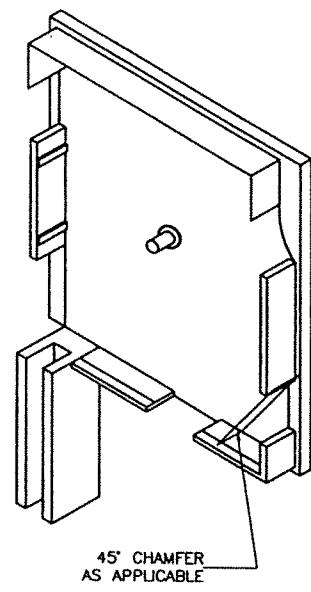
ET 2 OF 22



BOX STRUCTURAL COMPONENTS AND ASSEMBLY DETAIL

45 & 45/S OPTIONAL HOUSINGS

90 HOUSING



① END CAPS:

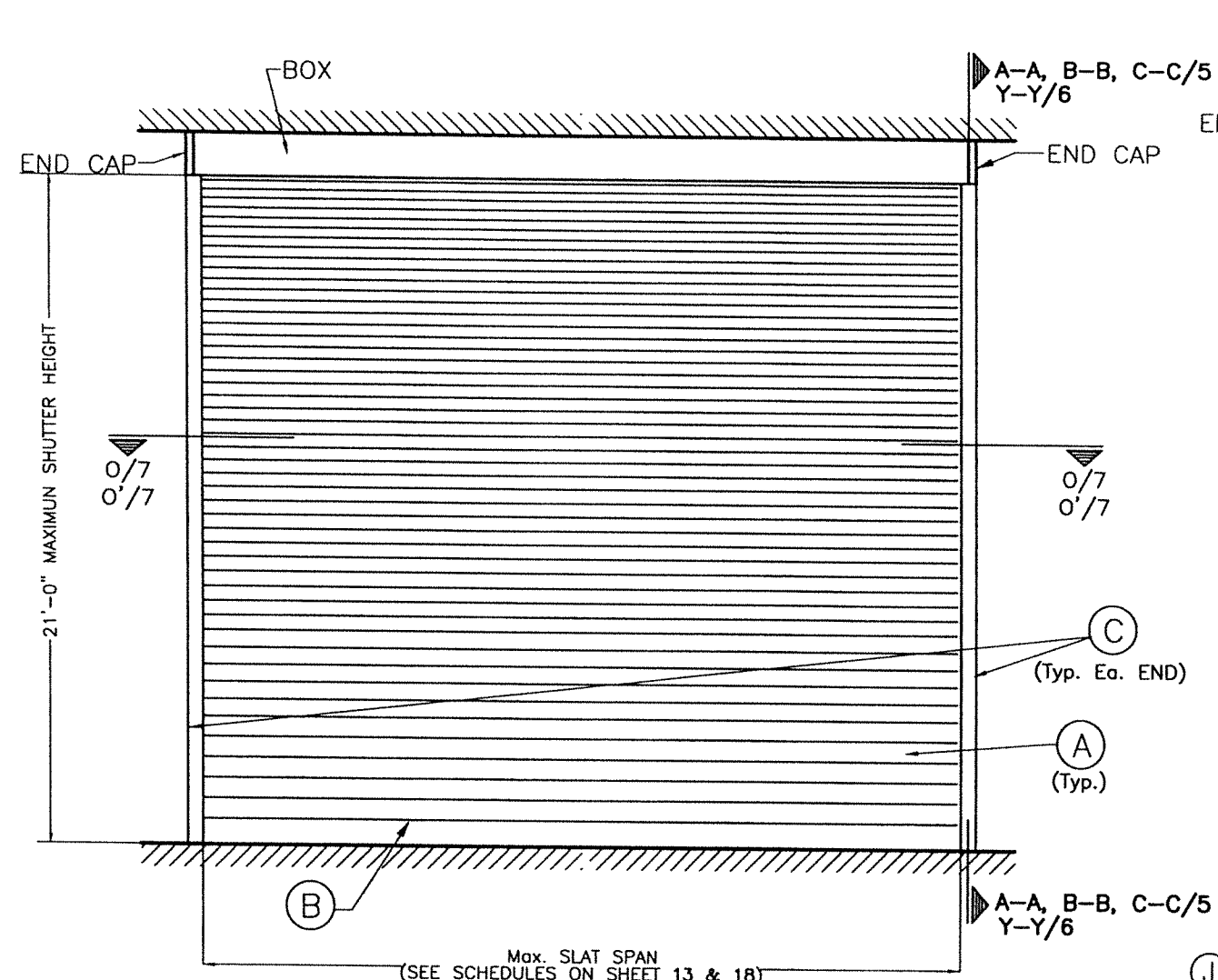
STRUCTURAL COMPONENTS FOR OPERATING SYSTEM

- ① - SIDE/END CAP (CAST ALUMINUM) *
 - ② - HOUSING MIN. 0.040" THICK SHEET METAL (3105-H14 OR STRONGER)
 - ③ - SIDE RAIL © W/ ④
- FASTENERS
- ④ - 3/16" ALUMINUM POP RIVETS OR # 10 S.D.S. (6 REQ'D EA. SIDE CAP) : 2 @ TOP, 2 @ REAR, 2 @ BOTTOM

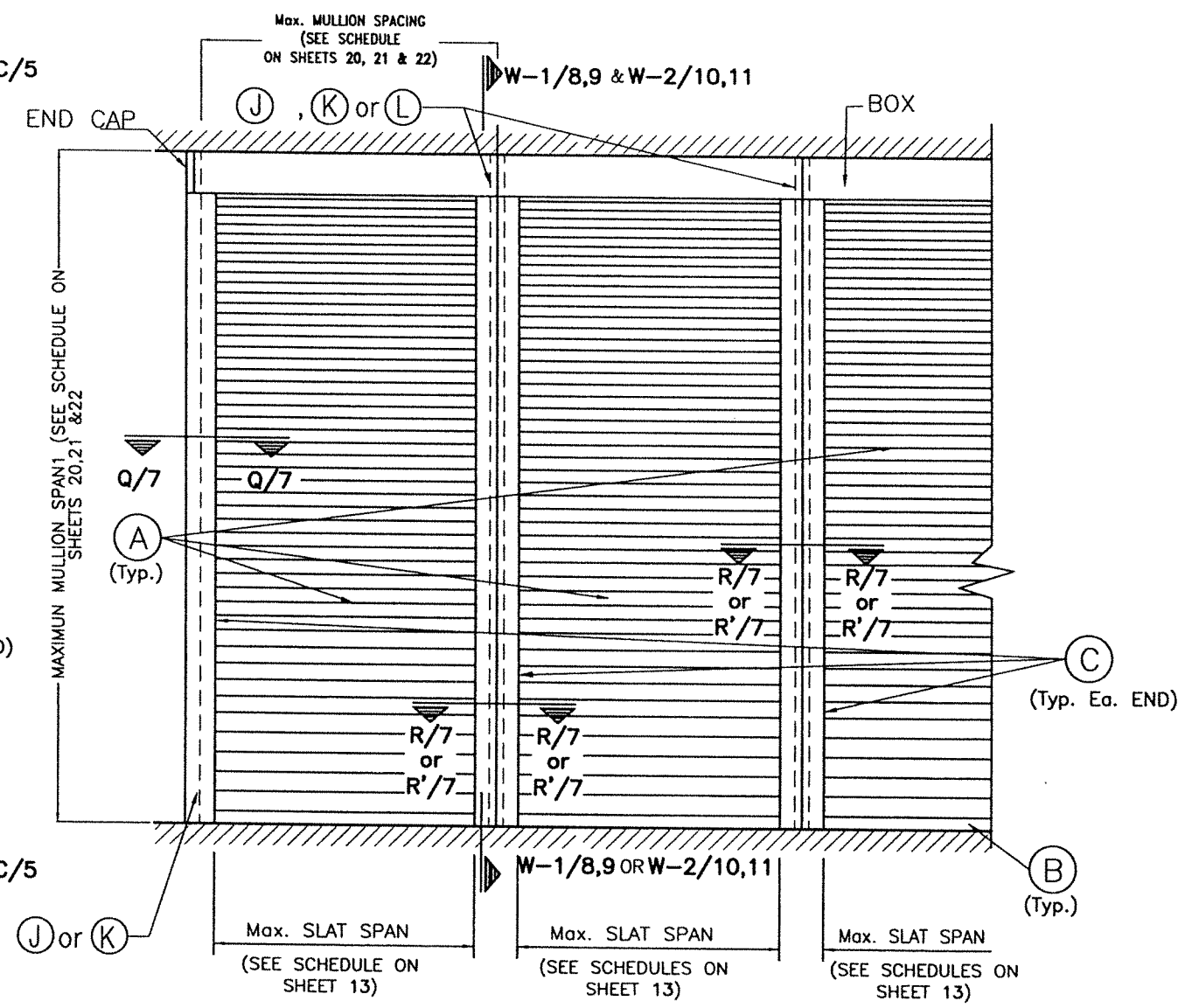
* SHALL BE CAPABLE TO SUSTAIN SLAT'S WEIGHT AND ASSURE LIFTING MECHANISM. (SEE NOTE 14/1)

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

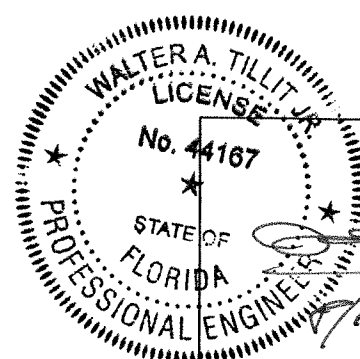
FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)					
©2023 TILTECO, INC. TILTECO inc. TILLIT TESTING & ENGINEERING COMPANY 6300 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33188 Phone : (305)671-1830 . Fax : (305)671-1831 CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			IMPACT PROTECTIVE ROLLING SYSTEM WITH CHD-6 SLAT (END RETENTION) ADVANCED HURRICANE TECHNOLOGY 16501 OLD, AIRPORT HAUL RD. FORT MYERS, FL 33913		Y.M. DRAWN BY: 08/17/2023 DATE: 23-185 DRAWING No. SHEET 3 OF 22
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1	OLD 23-052	08/17/23	3	-	-
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TYPICAL SINGLE UNIT ELEVATION
(CONCRETE, GROUTED BLOCK OR WOOD)
 NOTE: SEE SHEETS 2 & 3 FOR COMPONENTS NOMENCLATURE.
 N.T.S.

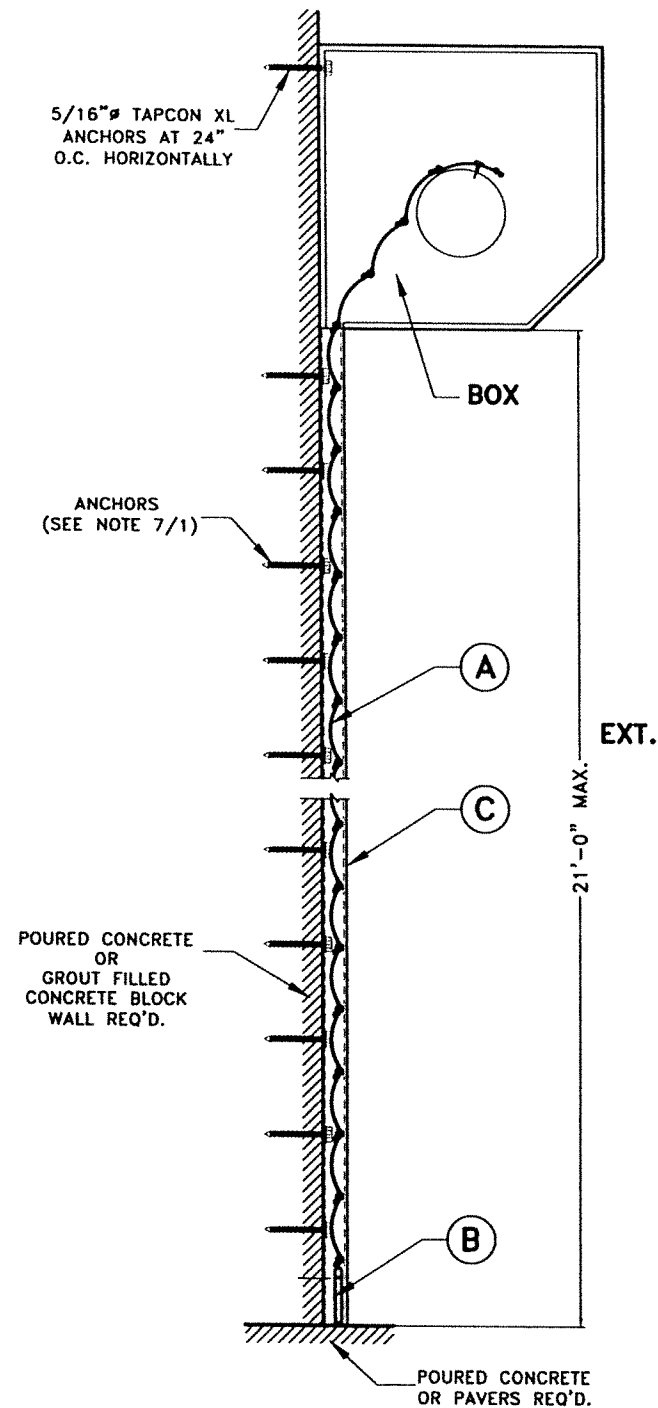


TYPICAL CONSECUTIVE SINGLE UNIT ELEVATION
W/ MULLION INTO POURED CONCRETE
 NOTE: SEE SHEETS 2 & 3 FOR COMPONENTS NOMENCLATURE.
 N.T.S.

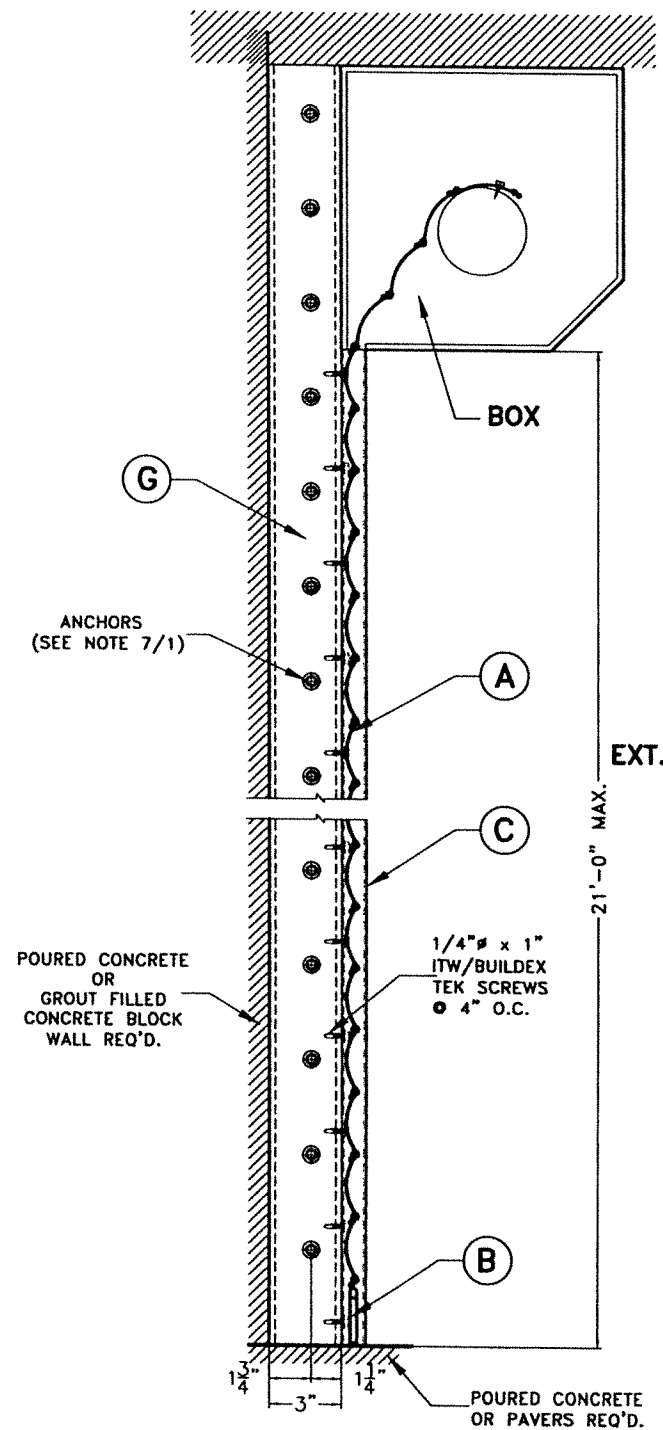


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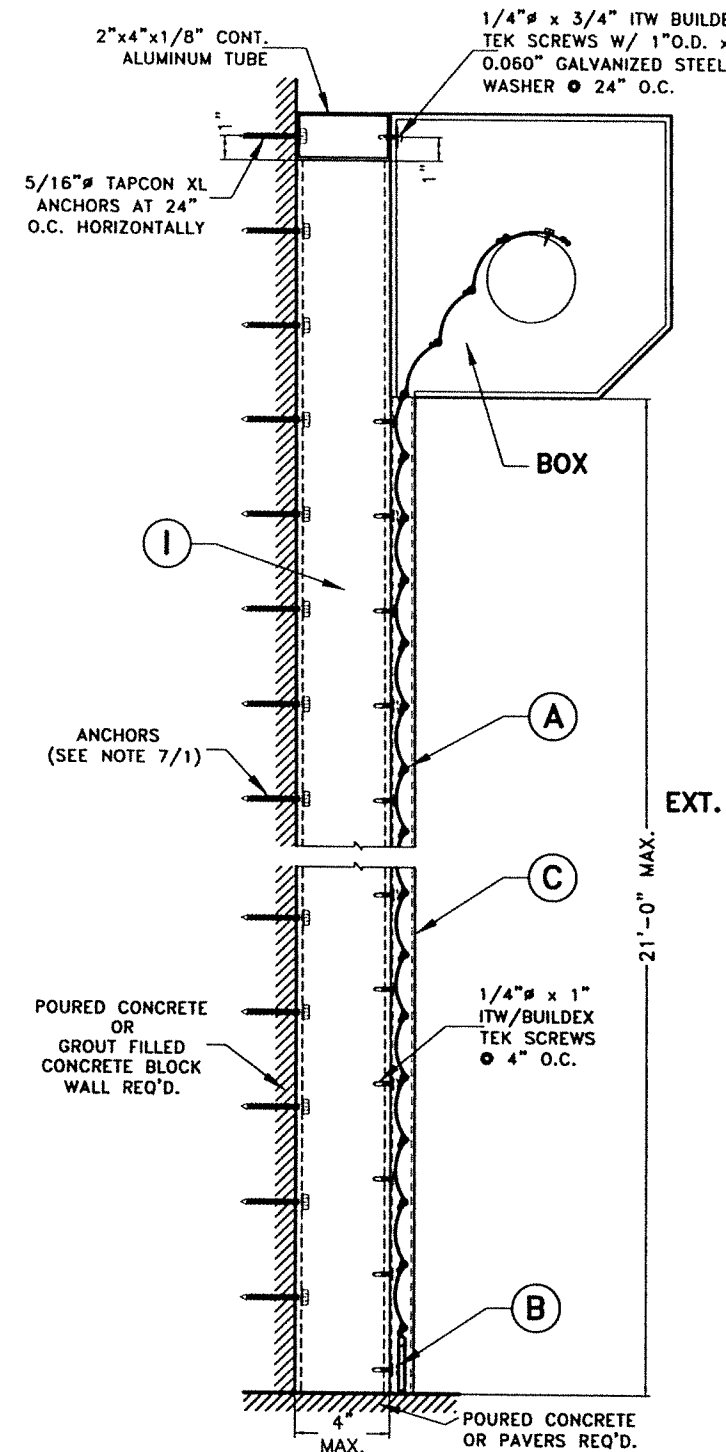
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©2023 TILTECO, INC. TILTECO inc. TILLIT TESTING & ENGINEERING COMPANY 6305 N.W. 38th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)671-1830 • Fax : (305)671-1631 CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			IMPACT PROTECTIVE ROLLING SYSTEM WITH CHD-6 SLAT (END RETENTION) AT ADVANCED HURRICANE TECHNOLOGY ADVANCED HURRICANE TECHNOLOGY INC. 16501 OLD AIRPORT HAUL RD. FORT MYERS, FL 33913					Y.M. DRAWN BY: 08/17/2023 DATE: 23-185 DRAWING No. SHEET 4 OF 22			
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**SECTION A-A
(WALL MOUNTED)**
SCALE 1/8"=1"

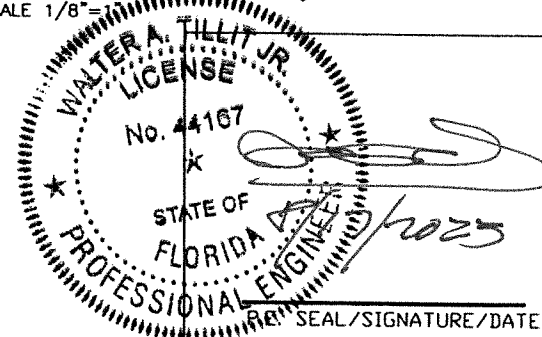


**SECTIONS B-B
(TRAPPED MOUNTED)**
SCALE 1/8"=1"



**SECTION C-C
(BUILD OUT)**
SCALE 1/8"=1"

**INSTALLATION DETAILS ON EXISTING
POURED CONCRETE OR GROUT FILLED
CONCRETE BLOCK WALL BUILDINGS**



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IMPACT PROTECTIVE ROLLING SYSTEM
WITH CHD-6 SLAT (END RETENTION)



ADVANCED
HURRICANE
TECHNOLOGY

**ADVANCED
HURRICANE
TECHNOLOGY INC.**
16501 OLD AIRPORT
HAUL RD. FORT MYERS,
FL 33913

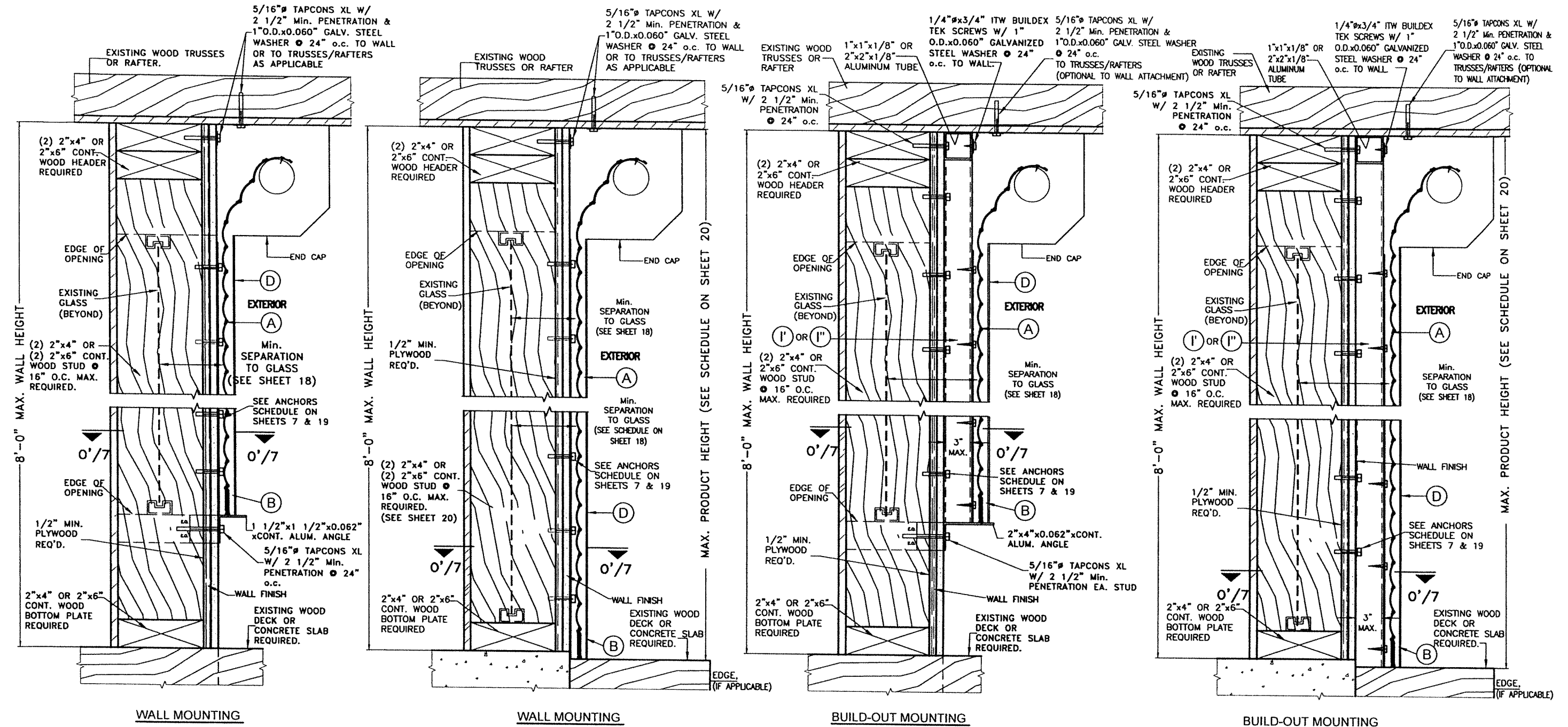
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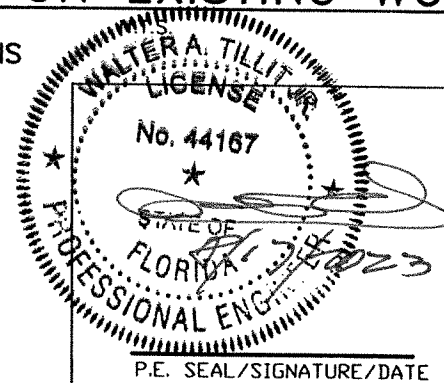
SHEET 5 OF 22



SECTIONS Y-Y

INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS *

* SEE SHEETS 18 & 19 FOR LIMITATIONS AND ANCHOR SPACING REQUIREMENTS



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IMPACT PROTECTIVE ROLLING SYSTEM
WITH CHD-6 SLAT (END RETENTION)



ADVANCED HURRICANE TECHNOLOGY INC.
16501 OLD AIRPORT
HAUL RD. FORT MYERS,
FL 33913

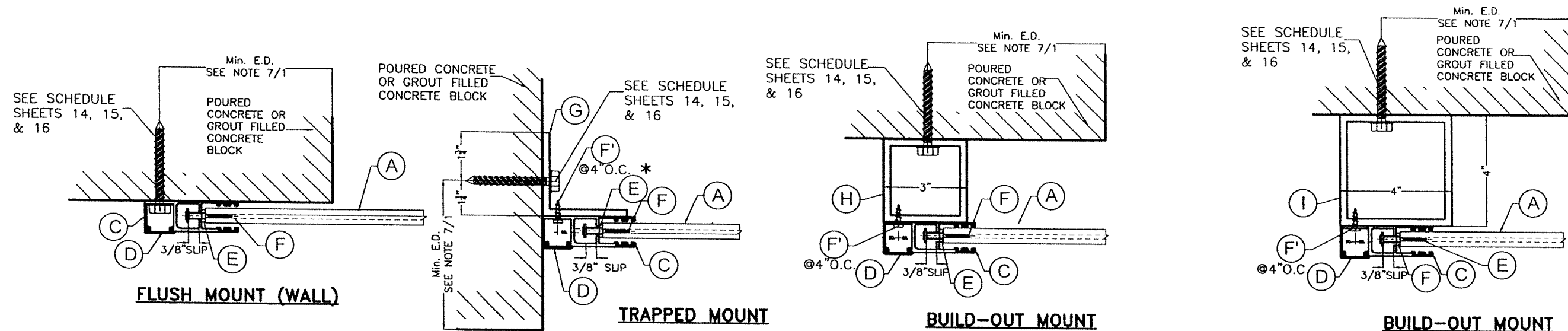
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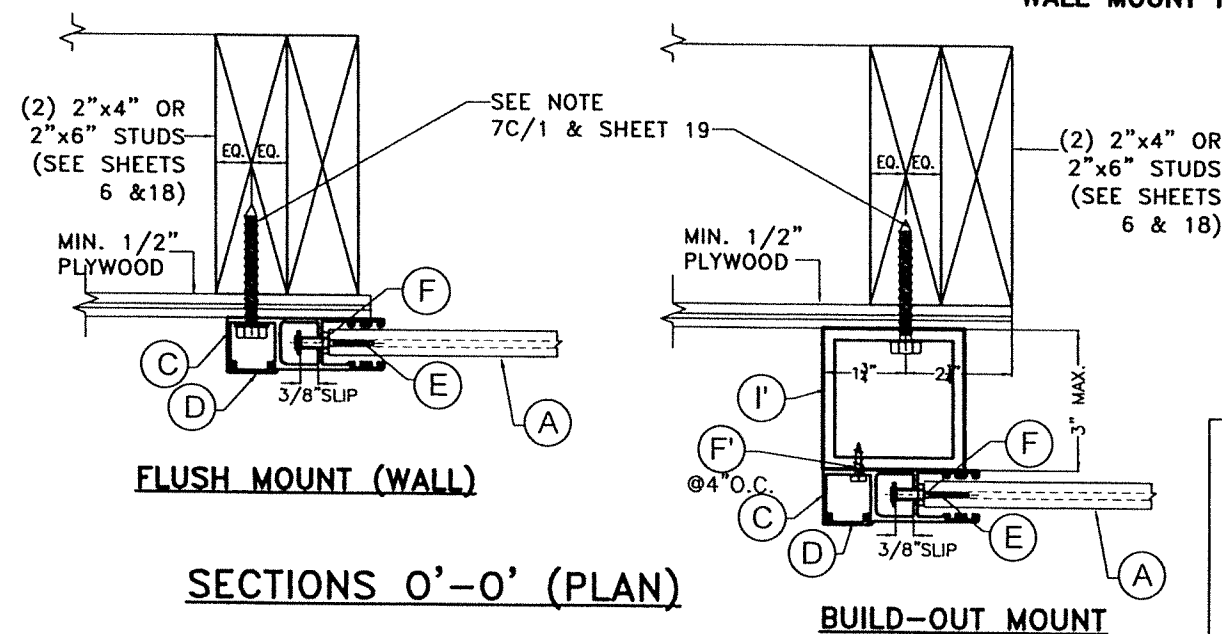
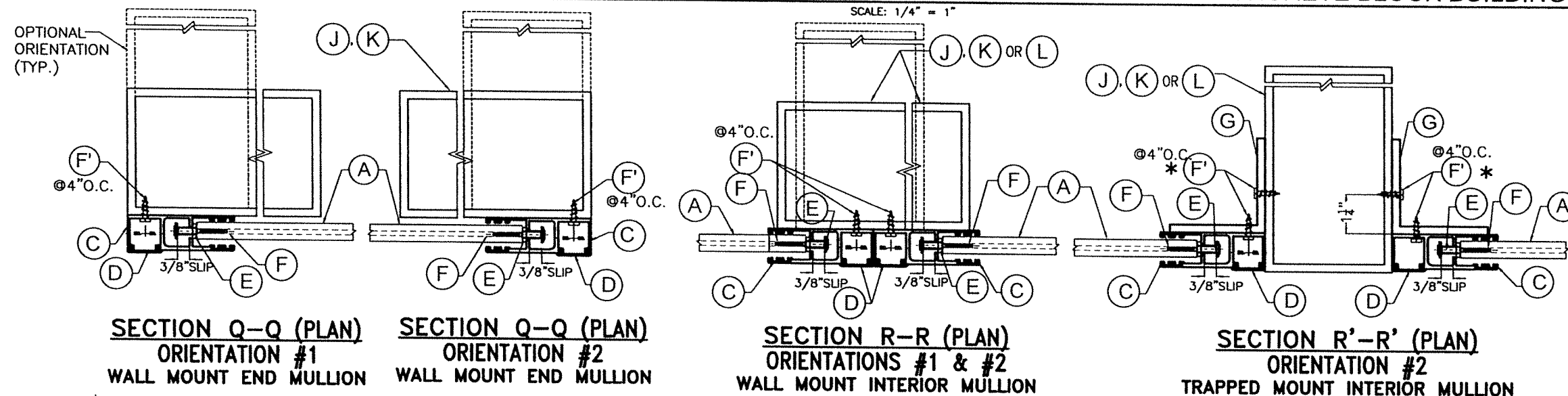
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SHEET 6 OF 22

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2	-	-	4	-	-



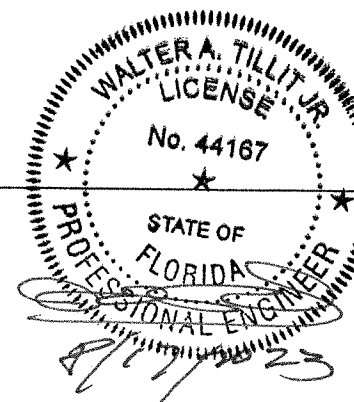
SECTIONS O-O (PLAN)
INSTALLATION DETAILS INTO EXISTING POURED CONCRETE OR GROUT FILLED CONCRETE BLOCK BUILDINGS



SECTIONS O'-O' (PLAN)
INSTALLATION DETAILS INTO EXISTING WOOD BUILDINGS
 SCALE: 1/4" = 1"

INSTALLATION DETAILS INTO MULLIONS J, K, L
 SCALE: 1/4" = 1"

* ALTERNATIVELY TO (F') A
 1/4"Ø-20x3/4" S.S. M.S.
 W/ NUT MAY BE USED
 FOR THIS CONNECTION



P.E. SEAL/SIGNATURE/DATE

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 6305 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33106
 Phone : (305)871-1830 • Fax : (305)871-1831
 CA-0008719
 WALTER A. TILLIT Jr. P.E.
 FLORIDA Lic. # 44167

**IMPACT PROTECTIVE ROLLING SYSTEM
 WITH CHD-6 SLAT (END RETENTION)**



ADVANCED HURRICANE TECHNOLOGY INC.
 18501 OLD AIRPORT
 HAUL RD. FORT MYERS,
 FL 33913

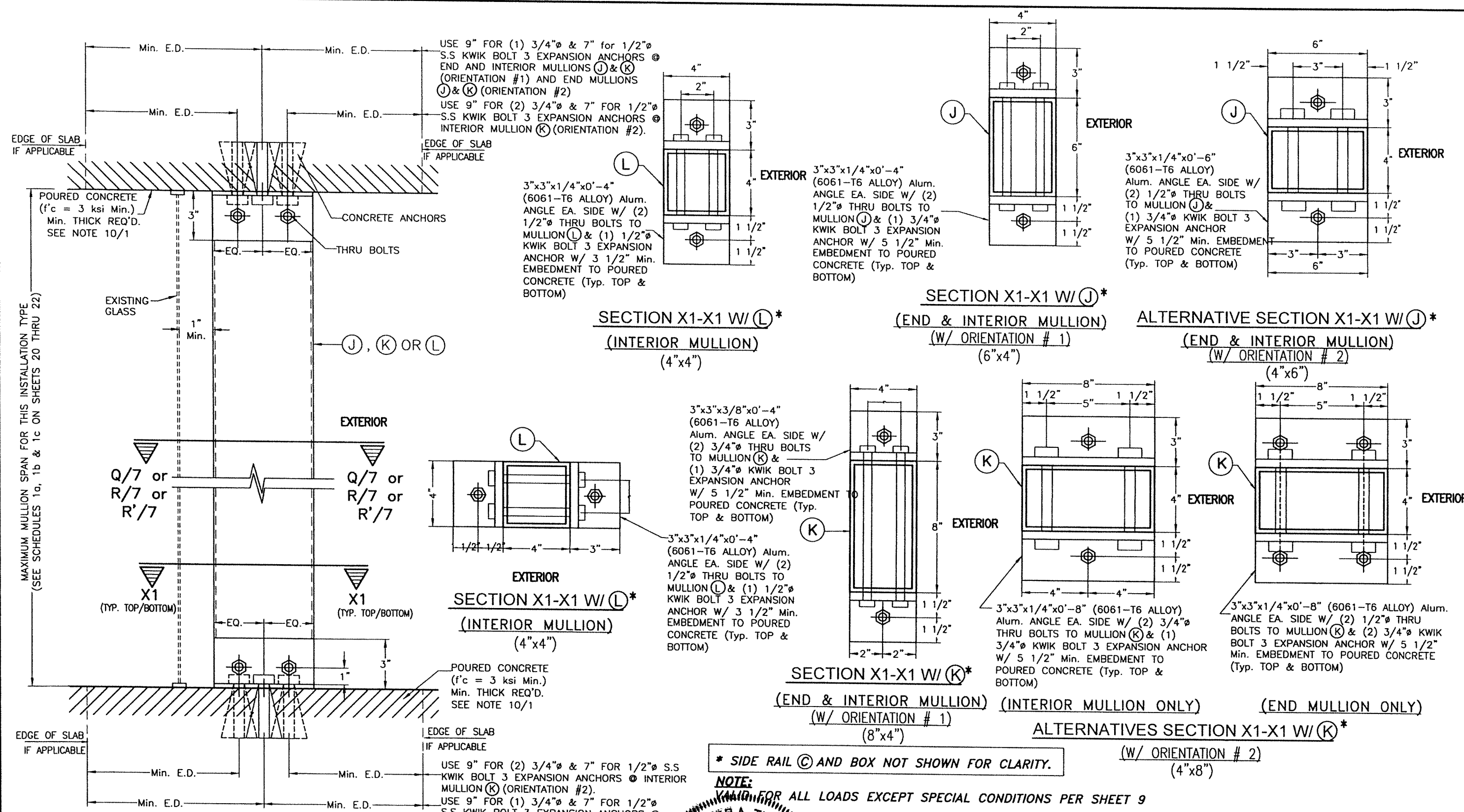
Y.M.
 DRAWN BY:

08/17/2023
 DATE:

23-185
 DRAWING No.

SHEET 7 OF 22

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-032	08/17/23	3	-	-
2	-	-	4	-	-



SECTIONS W-1
FLOOR TO CEILING / TRAPPED MOUNTING : MULLIONS (J), (K) OR (L)
END & INTERIOR TRAPPED MOUNTED MULLION INSTALLATION *
(TO BE USED WITH SCHEDULES 1a, 1b & 1c ON SHEETS 20 THRU 22)
SCALE: 1/8" = 1"

* SIDE RAIL (C) AND BOX NOT SHOWN FOR CLARITY.

NOTE:
VALID FOR ALL LOADS EXCEPT SPECIAL CONDITIONS PER SHEET 9

WALTER A. TILIT JR.
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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TILIT TESTING & ENGINEERING COMPANY
6305 N.W. 38th St., Ste. 305, VIRGINIA GARDENS, FL 33186
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CA-0008719

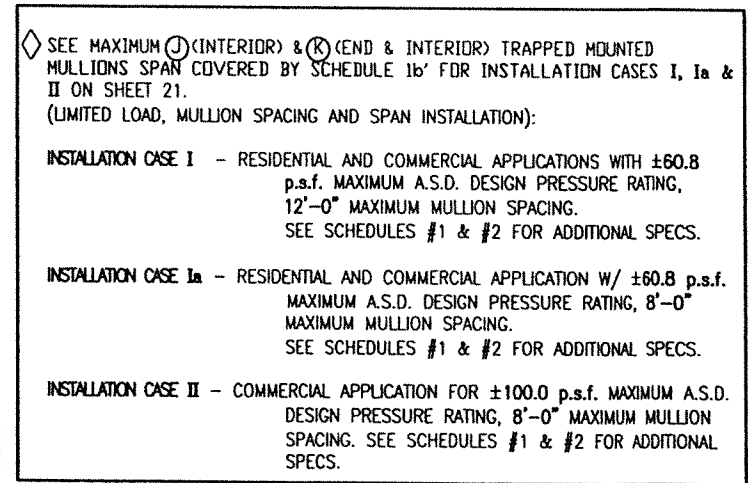
WALTER A. TILIT Jr. P.E.
FLORIDA Lic. # 44167

IMPACT PROTECTIVE ROLLING SYSTEM WITH CHD-6 SLAT (END RETENTION)

ADVANCED HURRICANE TECHNOLOGY INC.
16501 OLD AIRPORT HAUL RD. FORT MYERS, FL 33913

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-052	08/17/23	3	-	-
2	-	-	4	-	-

Y.M. DRAWN BY:
08/17/2023 DATE:
23-185
DRAWING No.
SHEET 8 OF 22



SCHEDULE #1				
INSTALLATION CASES	MIN. SLAB THICKNESS REQ'D.	ANCHOR TYPE & SIZE (TYP. TOP & BOTTOM)	MIN. ANCHOR EMBEDMENT	MIN. EDGE DISTANCE FOR ANCHOR
I	4"	3/8"Ø HILTI INC KVIK BOLT 3 & 3/8"Ø CONFLX ANCHOR FOR ① & ② (INTERIOR) MULLIONS W/ ORIENTATION #2, OR INTERIOR MULLION ①	2 3/8"	4 1/2"
Ia	8"	1/2"Ø HILTI INC KVIK BOLT 3 ONLY FOR ① & ② INTERIOR MULLIONS W/ ORIENTATION #2 & ③ END MULLION W/ ORIENTATION #1, OR INTERIOR MULLION ①	3 1/2"	7"
	6"	1/2"Ø CONFLX SCREW FOR ① & ③ END OR INTERIOR MULLION W/ ORIENTATIONS #1 OR #2 OR INTERIOR MULLION ①	3 1/2"	6"
II	6"	1/2"Ø HILTI INC KVIK BOLT 3 ONLY FOR ① & ② INTERIOR MULLIONS W/ ORIENTATION #2 & ③ END MULLION W/ ORIENTATION #1, OR INT. MULLION ①	3 1/2"	7"
		1/2"Ø CONFLX SCREW. SEE ■ NOTE ON SCHEDULE 1b' ON SHEET 21. VALID FOR END & INTERIOR MULLIONS ① & ③ W/ ORIENTATIONS #1 OR #2, OR INT. MULLION ①	3 1/2"	6"

SCHEDULE #2				
INSTALLATION CASES	MIN. SLAB THICKNESS REQ'D.	ANCHOR TYPE & SIZE (TYP. TOP & BOTTOM)	MIN. ANCHOR EMBEDMENT	MIN. EDGE DISTANCE FOR ANCHOR
I, Ia & II	4"	5/8"Ø HILTI INC HUS-H SCREW	2 1/2"	7 1/2"

* SIDE RAIL (C) AND BOX NOT SHOWN FOR CLARITY

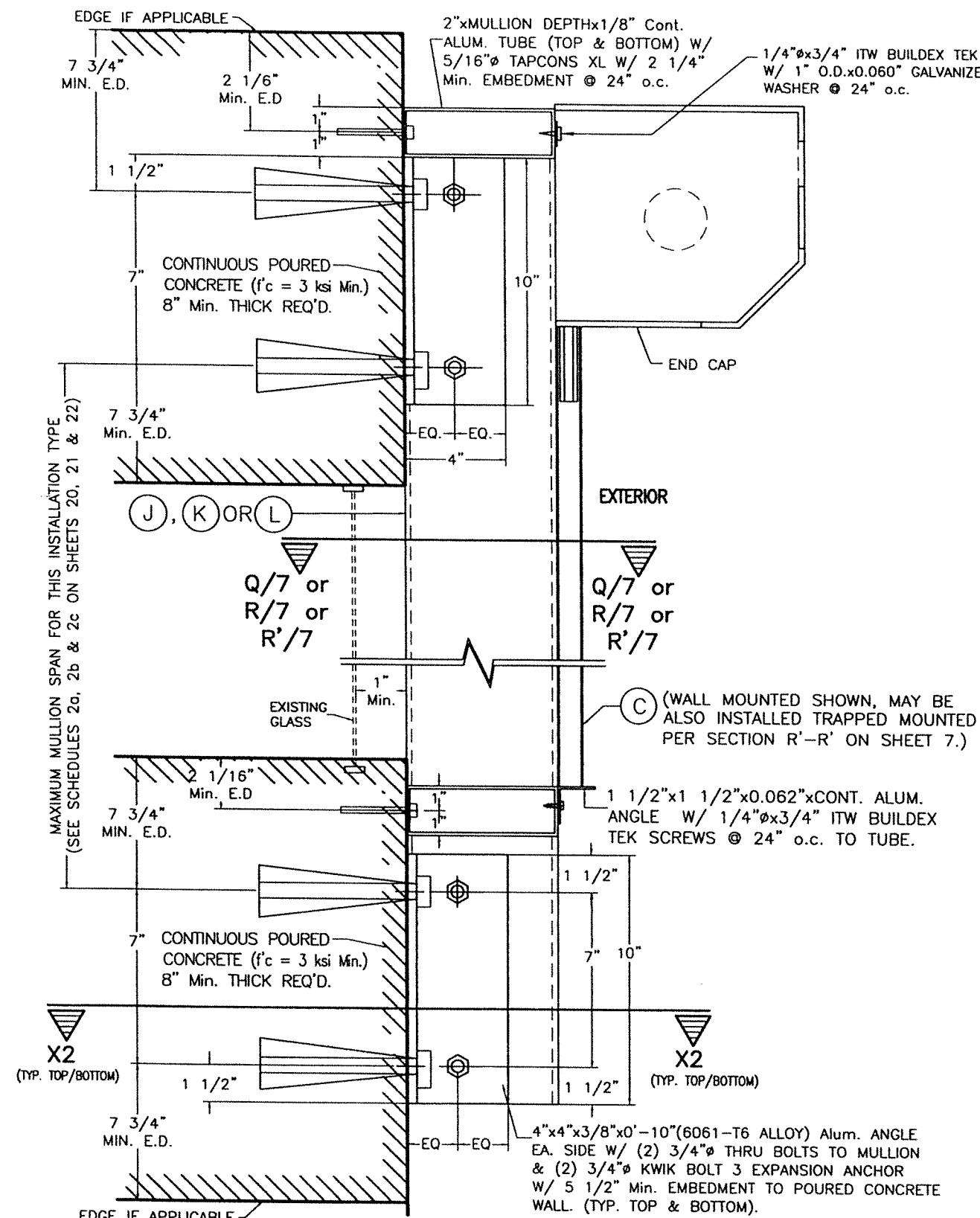
WALTER A. TILLITT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER

P.E. SEAL/SIGNATURE/DAT

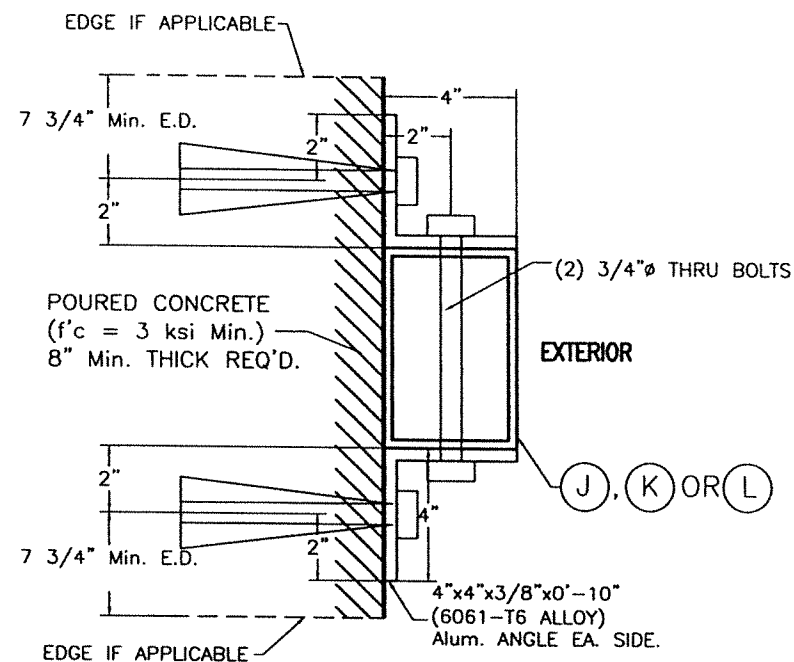
TILTECO INC.
TILTIT TESTING & ENGINEERING COMPANY
6300 N.W. 39th St., Ste. 305, VIRGINIA GARDENS, FL 3316
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WALTER A. TILIT JR. P.E.
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ET 9 OF 22

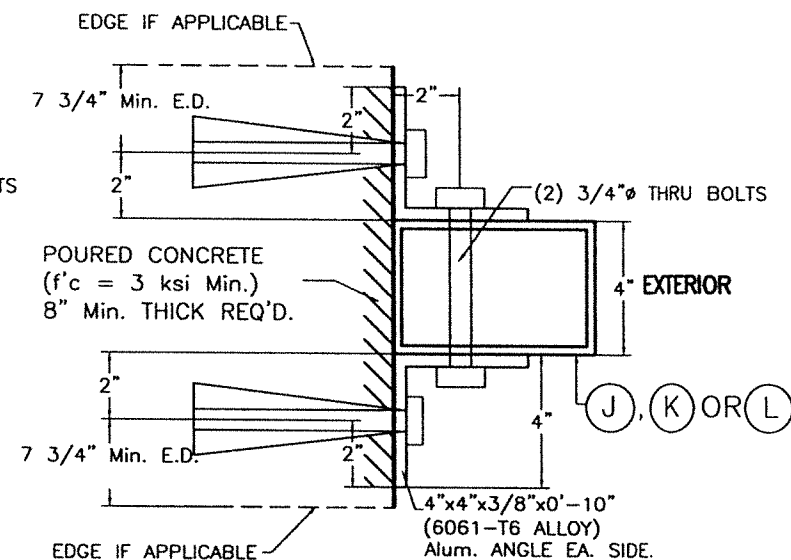
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-052	08/17/23	3	-	-
2			4		



SECTION W-2
WALL MOUNTING: MULLIONS (J), (K) OR (L)
POURED CONCRETE WALL
END & INTERIOR WALL MOUNTED MULLION INSTALLATION
(TO BE USED WITH SCHEDULES 2a, 2b & 2c ON SHEETS 20 THRU 22)
SCALE: 1/8" = 1"



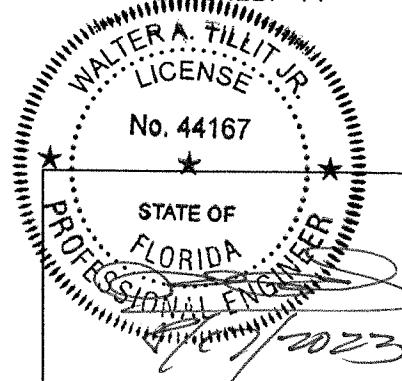
SECTION X2-X2 W/ (J), (K) OR (L)*
(END & INTERIOR MULLION) (J) & (K) or
INTERIOR MULLION (L)
(W/ ORIENTATION # 2)
(6"x4" , 8"x4" or 4"x4")



ALTERNATIVE SECTION X2-X2 W/ (J), (K) OR (L)*
(END & INTERIOR MULLION) (J) & (K) or
INTERIOR MULLION (L)
(W/ ORIENTATION # 1)
(4"x4" , 4"x6" or 4"x8")

* SIDE RAIL (C) NOT SHOWN FOR CLARITY

NOTE:
VALID FOR ALL LOADS EXCEPT SPECIAL CONDITIONS
PER SHEET 11



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CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

IMPACT PROTECTIVE ROLLING SYSTEM
WITH CHD-6 SLAT (END RETENTION)

AT
ADVANCED
HURRICANE
TECHNOLOGY

**ADVANCED
HURRICANE
TECHNOLOGY INC.**
16501 OLD AIRPORT
HAUL RD. FORT MYERS,
FL 33913

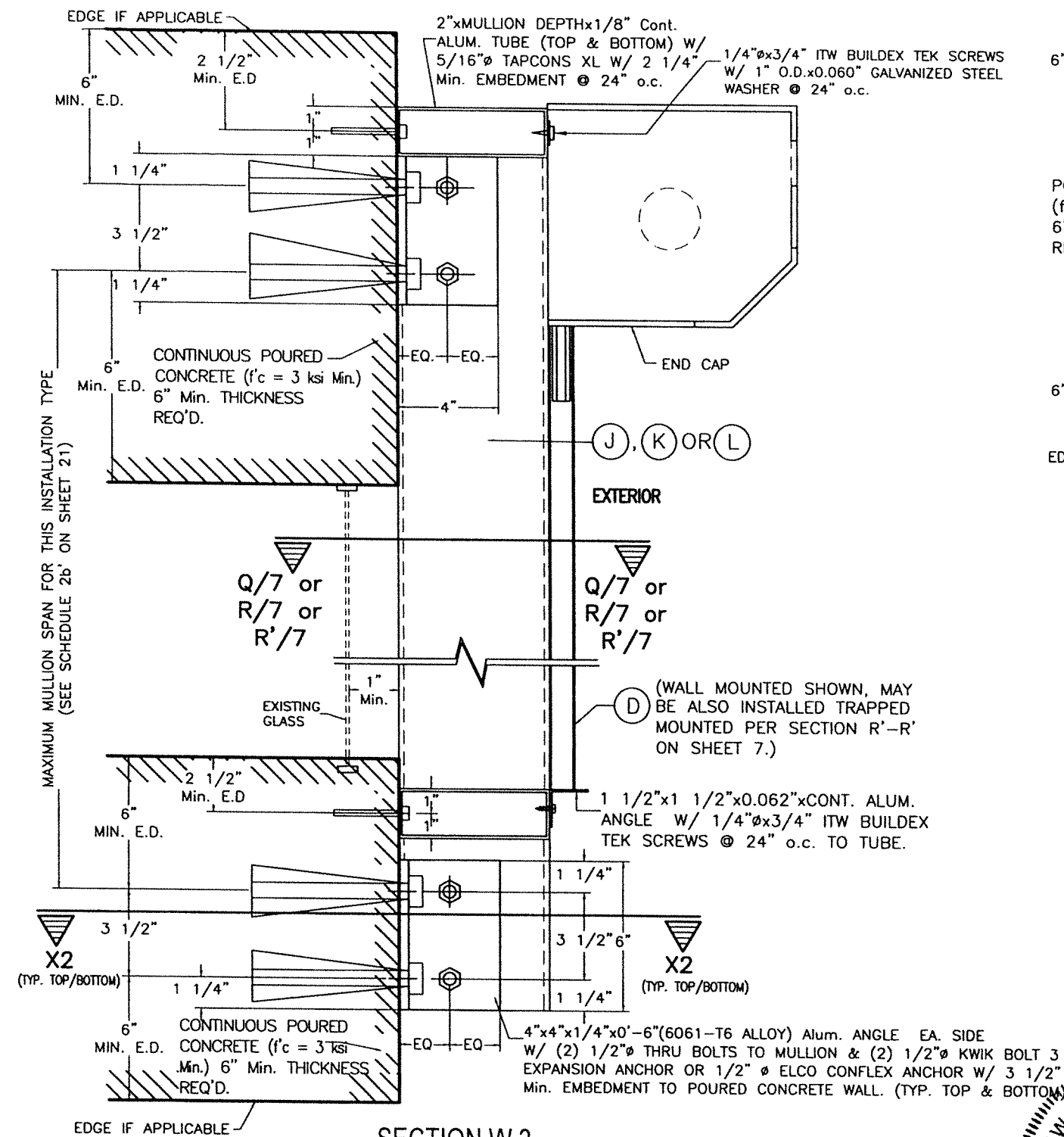
Y.M.
DRAWN BY:

08/17/2023
DATE:

23-185
DRAWING No.

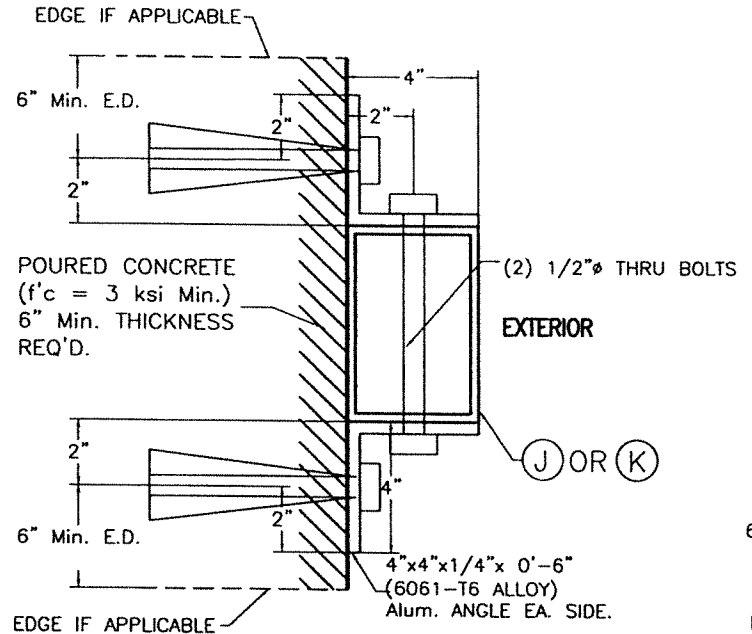
SHEET 10 OF 22

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2	-	-	4	-	-

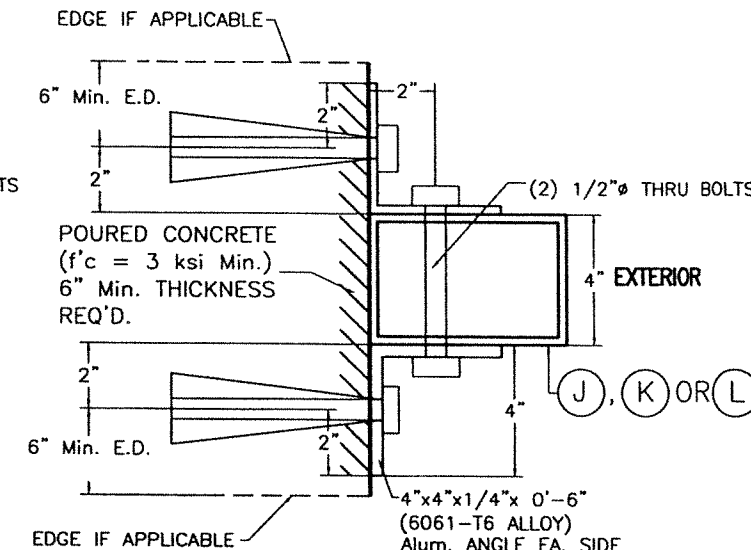


SECTION W-2
WALL MOUNTING: MULLIONS J, K OR L
POURED CONCRETE WALL

◇ END & INTERIOR WALL MOUNTED MULLION INSTALLATION *
APPLICABLE TO A LIMITED LOAD, MULLION SPAN AND MULLION SPACING INSTALLATIONS
(TO BE USED WITH SCHEDULE 2b ON SHEET 21)
SCALE: 1/8" = 1"



SECTION X2-X2 W/ (K)*
(END & INTERIOR MULLION) J & K
W/ OR INTERIOR MULLION L
(4"x4" or 4"x8")



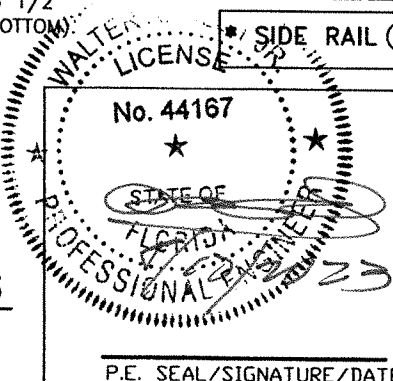
ALTERNATIVE SECTION X2-X2 W/ J, K OR L*
(INTERIOR MULLION)
(W/ ORIENTATION # 2)
(4"x4", 4"x6" or 4"x8")

◇ SEE MAXIMUM L (INTERIOR) J & K (END & INTERIOR) WALL MOUNTED MULLIONS SPAN COVERED BY SCHEDULE 2b FOR INSTALLATION CASES I' & II' ON SHEET 21 (LIMITED LOAD, MULLION SPACING AND SPAN INSTALLATION):

INSTALLATION CASE I' - RESIDENTIAL AND COMMERCIAL APPLICATIONS WITH ±60.8 p.s.f. MAXIMUM A.S.D. DESIGN PRESSURE RATING, 12'-0" MAXIMUM MULLION SPACING. VALID FOR CONNECTION TO CONCRETE W/ 1/2" Ø S.S. KWIK BOLT 3 OR 1/2" Ø ELCO CONFLEX ANCHOR.

INSTALLATION CASE II' - COMMERCIAL APPLICATION FOR ±100.0 p.s.f. MAXIMUM A.S.D. DESIGN PRESSURE RATING, 8'-0" MAXIMUM MULLION SPACING. VALID FOR CONNECTION TO CONCRETE W/ 1/2" Ø S.S. HILTI INC KWIK BOLT 3 ANCHORS.

* SIDE RAIL C NOT SHOWN FOR CLARITY



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FLORIDA Lic. # 44167

IMPACT PROTECTIVE ROLLING SYSTEM WITH CHD-6 SLAT (END RETENTION)						Y.M. DRAWN BY:
 ADVANCED HURRICANE TECHNOLOGY 16501 OLD AIRPORT HAUL RD. FORT MYERS, FL 33913						08/17/2023 DATE:
						23-185 DRAWING No.
REV. NO	DESCRIPTION	DATE	REV. NO	DESCRIPTION	DATE	
1	OLD 23-052	08/17/23	3	-	-	
2	-	-	4	-	-	

TYPICAL MANDATORY PROCEDURE FOR VERIFYING PRODUCT CODE COMPLIANCE RELATED TO ITS INSTALLATION INTO EXISTING POURED CONCRETE OR GROUT FILLED CELL CONCRETE BLOCK STRUCTURES (*)

STEP 1: OBTAIN JOB SITE'S A.S.D. DESIGN PRESSURE RATING (p.s.f.) FOR THE OPENING AND DESIRED SLAT SPAN "L" (ft) TO PROTECT IT (SEE GENERAL NOTE #2, SHEET 1).

STEP 2: ENTER TO CHARTS **Ia, Ib, Ic, Id** AND **Ie** ON SHEET 13 TO DETERMINE, BASED ON AN 3/8" SLAT SLIP (in), ANCHOR TYPE AT SIDE RAILS; AND A.S.D. DESIGN PRESSURE RATING (p.s.f.), THE REQUIRED MAX SLAT SPAN "L" ft.

THE FOLLOWING INFORMATION IS PROVIDED AT CHARTS **I** THRU **Ie** TO PROCEED WITH PRODUCT INSTALLATION VERIFICATION:

- ENTER A.S.D. DESIGN PRESSURE RATING: SEE STEP (1) ABOVE.
- FOR A SPECIFIC PRODUCT MOUNTING INSTALLATION TYPE, INCLUDING ANCHOR TYPE, THE FOLLOWING DEFINITION FOR SLAT SPAN SHALL BE CONSIDERED:

L_{MAX}: THIS IS THE MAXIMUM ALLOWABLE SLAT SPAN FOR WHICH A GIVEN 3/8" SLAT SLIP MAY BE USED, FOR A GIVEN A.S.D. DESIGN PRESSURE RATING, AND MOUNTING TYPE.

- MINIMUM REQUIRED SEPARATION TO GLASS IS PROVIDED ON CHART **Ie**.

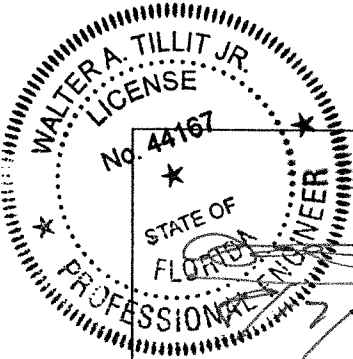
STEP 3: OBTAIN INFORMATION ON PRODUCT'S SIDE RAIL ANCHOR SPACING REQUIREMENTS FOR CONNECTION TO EXISTING STRUCTURE FROM ANCHOR SCHEDULES Va, Vb & Vb' ON SHEETS 14 THRU 16. ENTER SCHEDULES WITH ANCHOR TYPE, SUBSTRATE, MOUNTING TYPE, A.S.D. DESIGN PRESSURE RATING & SLAT SPAN AND OBTAIN MAXIMUM ANCHOR SPACING (INCHES ON CENTERS). SEE GENERAL NOTE 7 ON SHEET 1 FOR ANCHOR SPECS.

STEP 4: IF PRODUCT INSTALLATION INCLUDES MULLIONS, THE FOLLOWING MANDATORY ADDITIONAL PROCEDURE IS APPLICABLE.

1. MINIMUM SEPARATION TO GLASS FOR SLATS IF MULLIONS ARE USED SHALL BE BASED ON CHART **Ie** ON SHEET 13. IT SHALL BE MEASURED FROM BACK OF SLATS TO GLASS.
2. ENTER SCHEDULES 1a THRU 2c ON SHEETS 20, 21 & 22 W/ A.S.D. DESIGN LOAD; MAXIMUM MULLION SPACING (MAX., 12', 8' OR 7'), AND DETERMINE MAXIMUM MULLIONS SPAN (HEIGHT) W/ ALLOWABLE INTERPOLATION IN BETWEEN SPACING'S FOR A GIVEN **(J, K & L)**, MULLION TYPE & MULLION ORIENTATION.

3. SEE SHEETS 8 THRU 11 FOR REQUIRED MULLION CONNECTION DETAILS AT TOP & BOTTOM FOR FLOOR TO CEILING (TRAPPED) OR WALL MOUNTINGS OF MULLIONS INTO CONCRETE FOR A GIVEN MULLION TYPE **(J, K, & L)**.

* PROCEDURE PER STEPS 1 THRU 3 IS SIMILAR FOR INSTALLATIONS INTO WOOD FRAME STRUCTURES. SEE SHEETS 18 & 19 FOR LIMITATIONS APPLICABLE TO INSTALLATIONS INTO WOOD FRAME STRUCTURES.



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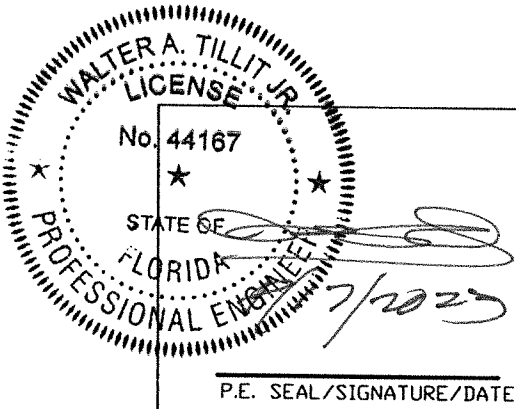
IMPACT PROTECTIVE ROLLING SYSTEM WITH CHD-6 SLAT (END RETENTION)						Y.M. DRAWN BY:
 ADVANCED HURRICANE TECHNOLOGY ADVANCED HURRICANE TECHNOLOGY INC. 16501 OLD, AIRPORT HAUL RD. FORT MYERS, FL 33913						08/17/2023 DATE:
						23-185 DRAWING No.
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 12 OF 22
1	OLD 23-052	08/17/23	3	-	-	
2	-	-	4	-	-	

SLAT PERFORMANCE CHARTS **Ia, Ib, Ic, Id & Ie**: (ONLY VALID FOR 3/8" SLIP). SEE SHT. 18 FOR WOOD SUBSTRATE
FOR A GIVEN A.S.D. DESIGN PRESSURE RATING (p.s.f.), PRODUCT MOUNT CONDITION INCLUDING ANCHOR TYPE

MAX. A.S.D. DESIGN PRESSURE RATING (psf)	CHART Ia				CHART Ib				CHART Ic				CHART Id				CHART Ie
	3/8"Ø ELCO CONFLEX ANCHOR TO POURED CONCRETE				3/8"Ø KWIK BOLT 3 ANCHOR TO POURED CONCRETE				5/16"Ø TAPCON XL ANCHOR TO POURED CONCRETE				5/16"Ø TAPCON XL ANCHOR or 3/8" Ø KWIK BOLT 3 TO GROUT FILLED CELL CONCRETE BLOCK				USE MAXIMUM POSITIVE A.S.D. LOAD VALUE
	MAX. SLAT SPAN "L _{MAX.} " (FT)				MAX. SLAT SPAN "L _{MAX.} " (FT)				MAX. SLAT SPAN "L _{MAX.} " (FT)				MAX. SLAT SPAN "L _{MAX.} " (FT)				REQUIRED MIN. SEPARATION TO GLASS MEASURED TO BACK OF SLAT (in)
	WALL MOUNT SEE NOTES *	TRAPPED MOUNT SEE NOTES *	BUILD-OUT MOUNT W/ ⓐ & ⓑ SEE NOTES *	BUILD-OUT MOUNT W/ ⓒ SEE NOTES *	WALL MOUNT SEE NOTES *	TRAPPED MOUNT SEE NOTES *	BUILD-OUT MOUNT W/ ⓐ & ⓑ SEE NOTES *	BUILD-OUT MOUNT W/ ⓒ SEE NOTES *	WALL MOUNT SEE NOTES *	TRAPPED MOUNT SEE NOTES *	BUILD-OUT MOUNT W/ ⓐ & ⓑ SEE NOTES *	BUILD-OUT MOUNT W/ ⓒ SEE NOTES *	WALL MOUNT SEE NOTES *	TRAPPED MOUNT SEE NOTES *	BUILD-OUT MOUNT W/ ⓐ & ⓑ SEE NOTES *	BUILD-OUT MOUNT W/ ⓒ SEE NOTES *	
30.0	21'-8"	21'-8"	21'-8"	21'-8"	21'-8"	21'-8"	16'-9"	21'-8"	21'-8"	21'-8"	13'-4"	17'-0"	21'-8"	21'-8"	11'-2"	14'-9"	7"
35.0	19'-9"	19'-9"	19'-9"	19'-9"	19'-9"	19'-9"	15'-0"	19'-9"	19'-9"	19'-9"	12'-0"	15'-3"	19'-9"	19'-9"	10'-0"	13'-6"	7"
40.0	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	13'-9"	17'-10"	18'-0"	18'-0"	11'-0"	13'-9"	18'-0"	18'-0"	9'-0"	12'-3"	7"
45.0	16'-6"	16'-6"	16'-6"	16'-6"	16'-6"	16'-6"	12'-8"	16'-3"	16'-6"	16'-6"	10'-0"	12'-9"	16'-6"	16'-6"	8'-4"	11'-3"	7"
50.0	15'-3"	15'-3"	15'-3"	15'-3"	15'-3"	15'-3"	11'-6"	15'-0"	15'-3"	15'-3"	9'-6"	11'-9"	15'-3"	15'-3"	7'-9"	10'-6"	6"
55.0	14'-3"	14'-3"	14'-3"	14'-3"	14'-3"	14'-3"	11'-0"	14'-0"	14'-3"	14'-3"	9'-0"	11'-2"	14'-3"	14'-3"	7'-4"	10'-0"	6"
60.0	13'-6"	13'-6"	13'-6"	13'-6"	13'-6"	13'-6"	10'-3"	13'-0"	13'-6"	13'-6"	8'-4"	10'-6"	13'-6"	13'-6"	7'-0"	9'-3"	6"
65.0	12'-9"	12'-9"	12'-9"	12'-9"	12'-9"	12'-9"	9'-9"	12'-6"	12'-9"	12'-9"	8'-2"	10'-0"	12'-9"	12'-9"	6'-6"	8'-9"	6"
70.0	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	9'-3"	11'-6"	12'-0"	12'-0"	7'-9"	9'-6"	12'-0"	12'-0"	6'-3"	8'-6"	6"
75.0	11'-6"	11'-6"	11'-6"	11'-6"	11'-6"	11'-6"	8'-9"	11'-0"	11'-6"	11'-6"	7'-6"	9'-0"	11'-6"	11'-6"	6'-0"	8'-0"	6"
80.0	11'-0"	11'-0"	11'-0"	11'-0"	11'-0"	11'-0"	8'-4"	10'-6"	11'-0"	11'-0"	7'-2"	8'-3"	11'-0"	11'-0"	5'-9"	7'-8"	6"
85.0	10'-6"	10'-6"	10'-6"	10'-6"	10'-6"	10'-6"	8'-3"	10'-3"	10'-6"	10'-6"	6'-9"	8'-0"	10'-6"	10'-6"	5'-6"	7'-6"	6"
90.0	10'-3"	10'-3"	10'-3"	10'-3"	10'-3"	10'-3"	8'-0"	9'-9"	10'-3"	10'-3"	6'-8"	7'-6"	10'-3"	10'-3"	5'-4"	7'-3"	6"
95.0	9'-9"	9'-9"	9'-9"	9'-9"	9'-9"	9'-9"	7'-9"	9'-3"	9'-9"	9'-9"	6'-6"	7'-3"	9'-9"	9'-9"	5'-2"	7'-0"	6"
100.0	9'-6"	9'-6"	9'-6"	9'-6"	9'-6"	9'-6"	7'-6"	9'-0"	9'-6"	9'-6"	6'-5"	7'-2"	9'-6"	9'-6"	5'-0"	6'-9"	6"
105.0	9'-3"	9'-3"	9'-3"	9'-3"	9'-3"	9'-3"	7'-3"	8'-9"	9'-3"	9'-3"	6'-3"	7'-1"	9'-3"	9'-3"	4'-10"	6'-6"	6"
110.0	9'-0"	9'-0"	9'-0"	9'-0"	9'-0"	9'-0"	7'-0"	8'-6"	9'-0"	9'-0"	6'-0"	7'-0"	9'-0"	9'-0"	4'-9"	6'-4"	6"
115.0	8'-9"	8'-9"	8'-9"	8'-9"	8'-9"	8'-9"	6'-9"	8'-3"	8'-9"	8'-9"	5'-9"	6'-6"	8'-9"	8'-9"	4'-8"	6'-3"	5"
120.0	8'-6"	8'-6"	-	-	8'-6"	8'-6"	-	-	8'-6"	8'-6"	-	-	8'-6"	8'-6"	-	-	5"
125.0	8'-3"	8'-3"	-	-	8'-3"	8'-3"	-	-	8'-3"	8'-3"	-	-	8'-3"	8'-3"	-	-	5"
130.0	8'-0"	8'-0"	-	-	8'-0"	8'-0"	-	-	8'-0"	8'-0"	-	-	8'-0"	8'-0"	-	-	5"
135.0	7'-9"	7'-9"	-	-	7'-9"	7'-9"	-	-	7'-9"	7'-9"	-	-	7'-9"	7'-9"	-	-	4 5/16"
140.0	7'-9"	7'-9"	-	-	7'-9"	7'-9"	-	-	7'-9"	7'-9"	-	-	7'-9"	7'-9"	-	-	4 5/16"

* **NOTES:**

1. ABOVE INDICATED MAX. SLAT SPANS MAY BE USED AS LONG AS ANCHOR SPACING SCHEDULES ON SHEETS 14, 15 & 16 INDICATE THAT AN ANCHOR SPACING IS AVAILABLE FOR THE CORRESPONDING SLAT SPAN AND A.S.D. DESIGN PRESSURE RATING.
2. REQUIRES SIDE RAILS FASTENED TO EXISTING STRUCTURE WITH 3/8" Ø ELCO CONFLEX ANCHOR, 3/8"Ø KWIK BOLT 3 ANCHOR OR 5/16"Ø TAPCON XL ANCHOR, INTO POURED CONCRETE OR GROUT FILLED CELL CONCRETE BLOCK, OR WITH ⓑ AT MULLIONS CONNECTION. VALID FOR WALL MOUNTED, TRAPPED MOUNTED, AND BUILD-OUT MOUNTED SLATS.
3. MAXIMUM SLAT SPANS FOR INTERMEDIATE LOADS MAY BE DETERMINED BY LINEAR INTERPOLATION BETWEEN END VALUES.



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©2023 TILTECO, INC. TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6300 N.W. 39th St., Ste. 305, VIRGINIA GARDENS, FL 33106 Phone : (305)671-1530 • Fax : (305)671-1531 CA-0006719 WALTER A. TILLIT JR., P.E. FLORIDA Lic. # 44167			IMPACT PROTECTIVE ROLLING SYSTEM WITH CHD-6 SLAT (END RETENTION) AT ADVANCED HURRICANE TECHNOLOGY		Y.M. DRAWN BY: 08/17/2023 DATE: 23-185 DRAWING No. SHEET 13 OF 22
REV. NO	DESCRIPTION	DATE	REV. NO	DESCRIPTION	DATE
1	OLD 23-052	08/17/23	3	-	-
2	-	-	4	-	-

MAX. ANCHOR'S SPACING SCHEDULE **Va**

FOR A GIVEN PRODUCT MOUNTING TYPE, W/ 3/8"Ø CONFLEX ANCHORS TO POURED CONCRETE WALL, A.S.D. DESIGN PRESSURE RATING & SLAT SPAN RANGE †

WALL MOUNT

MAX. A.S.D. DESIGN PRESSURE RATING RANGE (p.s.f.)	SLAT SPAN RANGE							
	0'-4' †	> 4'-5' †	> 5'-6' †	> 6'-7' †	> 7'-9' †	> 9'-12' †	> 12'-16' †	>16'-21'-8"†
≤ 30.0	6"	6"	6"	6"	6"	6"	6"	6"
>31-40	6"	6"	6"	6"	6"	6"	6"	6"
>41-60	6"	6"	6"	6"	6"	6"	6"	6"
>61-80	6"	6"	6"	6"	6"	6"	6"	—
>81-105	6"	6"	6"	6"	6"	6"	—	—
>106-120	6"	6"	6"	6"	6"	6"	—	—
>121-140	6"	6"	6"	6"	6"	—	—	—



SLAT SPAN DEFINITION

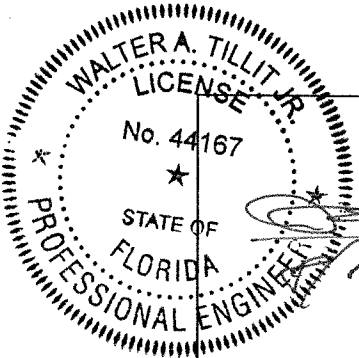
† NOTE:
MAX. SLAT SPAN FOR A GIVEN A.S.D. DESIGN PRESSURE RATING SHALL NEVER EXCEED MAX. SLAT SPAN INDICATED ON SLAT PERFORMANCE CHART ON SHEET 13.

TRAPPED MOUNT

MAX. A.S.D. DESIGN PRESSURE RATING RANGE (p.s.f.)	SLAT SPAN RANGE							
	0'-4' †	> 4'-5' †	> 5'-6' †	> 6'-7' †	> 7'-9' †	> 9'-12' †	> 12'-16' †	>16'-21'-8"†
≤ 30.0	6"	6"	6"	6"	6"	6"	6"	6"
>31-40	6"	6"	6"	6"	6"	6"	6"	6"
>41-60	6"	6"	6"	6"	6"	6"	6"	6"
>61-80	6"	6"	6"	6"	6"	6"	6"	—
>81-105	6"	6"	6"	6"	6"	6"	—	—
>106-120	6"	6"	6"	6"	6"	6"	—	—
>121-140	6"	6"	6"	6"	6"	—	—	—

BUILD-OUT MOUNT

MAX. A.S.D. DESIGN PRESSURE RATING RANGE (p.s.f.)	SLAT SPAN RANGE																							
	0'-4' †			> 4'-5' †			> 5'-6' †			> 6'-7' †			> 7'-9' †			> 9'-12' †			> 12'-16' †			>16'-21'-8"†		
	I ₁	I ₂	I ₃	I ₁	I ₂	I ₃	I ₁	I ₂	I ₃	I ₁	I ₂	I ₃	I ₁	I ₂	I ₃	I ₁	I ₂	I ₃	I ₁	I ₂	I ₃	I ₁	I ₂	I ₃
≤ 30.0	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"
>31-40	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"
>41-60	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"
>61-80	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"
>81-105	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	—	—	4"
>105-115	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	—	—	4"



P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VEROBEA GARDENS, FL 33166
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CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

IMPACT PROTECTIVE ROLLING SYSTEM WITH CHD-6 SLAT (END RETENTION)

AT ADVANCED HURRICANE TECHNOLOGY

ADVANCED HURRICANE TECHNOLOGY INC.
16501 OLD AIRPORT HAUL RD. FORT MYERS, FL 33913

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-052	08/17/23	3	—	—
2	—	—	4	—	—

Y.M.
DRAWN BY:
08/17/2023
DATE:
23-185
DRAWING No.
SHEET 14 OF 22

MAX. ANCHOR'S SPACING SCHEDULE **Va1**

FOR A GIVEN PRODUCT MOUNTING TYPE, W/ 3/8"Ø KWIK BOLT 3 ANCHORS TO POURED CONCRETE WALL, A.S.D. DESIGN PRESSURE RATING & SLAT SPAN RANGE†

WALL MOUNT

MAX. A.S.D. DESIGN PRESSURE RATING RANGE (p.s.f.)	SLAT SPAN RANGE							
	0'-4' †	> 4'-5' †	> 5'-6' †	> 6'-7' †	> 7'-9' †	> 9'-12' †	> 12'-16' †	>16'-21'-8"†
≤ 30.0	6"	6"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
>31-40	6"	6"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
>41-60	6"	6"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
>61-80	6"	6"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	—
>81-105	6"	6"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	—	—
>106-120	6"	6"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	—	—
>121-140	6"	6"	4 1/2"	4 1/2"	4 1/2"	—	—	—



SLAT SPAN DEFINITION

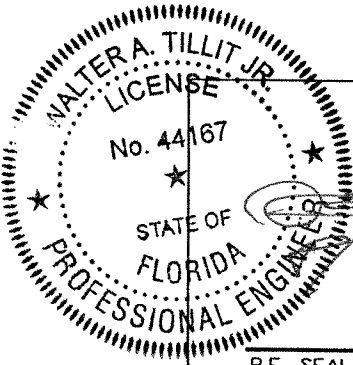
† NOTE:
MAX. SLAT SPAN FOR A GIVEN A.S.D. DESIGN PRESSURE RATING SHALL **NEVER** EXCEED MAX. SLAT SPAN INDICATED ON SLAT PERFORMANCE CHART ON SHEET 13.

TRAPPED MOUNT

MAX. A.S.D. DESIGN PRESSURE RATING RANGE (p.s.f.)	SLAT SPAN RANGE							
	0'-4' †	> 4'-5' †	> 5'-6' †	> 6'-7' †	> 7'-9' †	> 9'-12' †	> 12'-16' †	>16'-21'-8"†
≤ 30.0	6"	6"	5"	5"	5"	5"	5"	5"
>31-40	6"	6"	5"	5"	5"	5"	5"	5"
>41-60	6"	6"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
>61-80	6"	6"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	—
>81-105	6"	6"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	—	—
>106-120	6"	6"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	—	—
>121-140	6"	6"	4 1/2"	4 1/2"	4 1/2"	—	—	—

BUILD-OUT MOUNT

MAX. A.S.D. DESIGN PRESSURE RATING RANGE (p.s.f.)	SLAT SPAN RANGE																							
	0'-4' †			> 4'-5' †			> 5'-6' †			> 6'-7' †			> 7'-9' †			> 9'-12' †			> 12'-16' †			>16'-21'-8"†		
	I ₁	I ₂	I ₃	I ₁	I ₂	I ₃	I ₁	I ₂	I ₃	I ₁	I ₂	I ₃	I ₁	I ₂	I ₃	I ₁	I ₂	I ₃	I ₁	I ₂	I ₃	I ₁	I ₂	I ₃
≤ 30.0	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"
>31-40	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	—	—	4"
>41-60	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	—	—	4"
>61-80	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	—	—	4"	—	—	—
>81-105	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	—	—	4"	—	—	—	—	—	—
>105-115	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	—	—	4"	—	—	—	—	—	—



P.E. SEAL/SIGNATURE/DATE

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TILTECO INC.

TILLIT TESTING & ENGINEERING COMPANY
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CA-0006719

WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

IMPACT PROTECTIVE ROLLING SYSTEM
WITH CHD-6 SLAT (END RETENTION)

AT ADVANCED HURRICANE TECHNOLOGY

ADVANCED HURRICANE TECHNOLOGY INC.
18501 OLD AIRPORT
HAUL RD. FORT MYERS,
FL 33913

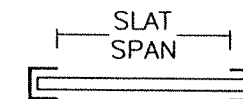
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-052	08/17/23	3	—	—
2	—	—	4	—	—

Y.M.
DRAWN BY:
08/17/2023
DATE:
23-185
DRAWING No.
SHEET 14A OF 22

MAX. ANCHOR'S SPACING SCHEDULE **Vb** FOR A GIVEN SHUTTER MOUNTING TYPE
W/ 5/16"Ø TAPCON XL ANCHOR TO POURED CONCRETE WALL
A.S.D. DESIGN LOAD & SLAT SPAN RANGE †

WALL MOUNT

MAXIMUM A.S.D. DESIGN PRESSURE RATING RANGE(psf)	SLAT SPAN RANGE							
	0'-4' †	> 4'-5' †	> 5'-6' †	> 6'-7' †	> 7'-9' †	> 9'-12' †	> 12'-16' †	>16'-21'-8"†
≤ 30.0	6"	6"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
>31-40	6"	6"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
>41-60	6"	6"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
>61-80	6"	6"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	—
>81-105	6"	6"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	3 3/4"	—
>106-120	6"	6"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	—	—
>121-140	6"	6"	4 1/2"	4 1/2"	4 1/2"	—	—	—



SLAT SPAN DEFINITION

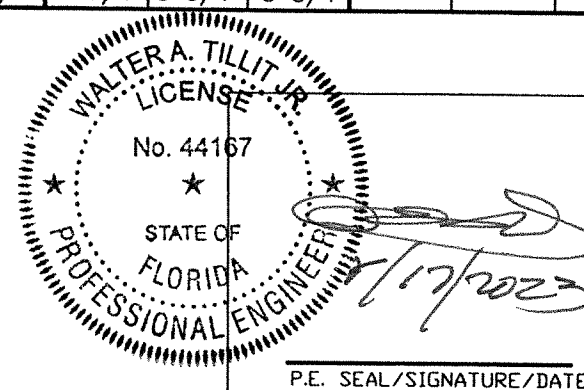
† NOTE:
MAX. SLAT SPAN FOR A
GIVEN A.S.D. DESIGN LOAD
SHALL **NEVER** EXCEED MAX.
SLAT SPAN INDICATED ON
SLAT PERFORMANCE CHART
ON SHEET 15.

TRAPPED MOUNT

MAXIMUM A.S.D. DESIGN PRESSURE RATING RANGE(psf)	SLAT SPAN RANGE							
	0'-4' †	> 4'-5' †	> 5'-6' †	> 6'-7' †	> 7'-9' †	> 9'-12' †	> 12'-16' †	>16'-21'-8"†
≤ 30.0	6"	6"	4 1/2"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"
>31-40	6"	6"	4 1/2"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"
>41-60	6"	6"	4 1/2"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"
>61-80	6"	6"	4 1/2"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	—
>81-105	6"	6"	4 1/2"	3 3/4"	3 3/4"	3 3/4"	—	—
>106-120	6"	6"	4 1/2"	3 3/4"	3 3/4"	—	—	—
>121-140	6"	6"	4 1/2"	3 3/4"	3 3/4"	—	—	—

BUILD-OUT MOUNT

MAXIMUM A.S.D. DESIGN PRESSURE RATING RANGE(psf)	SLAT SPAN RANGE																								
	0'-4' †			> 4'-5' †			> 5'-6' †			> 6'-7' †			> 7'-9' †			> 9'-12' †			> 12'-16' †			>16'-21'-8"†			
	I ₁	I ₂	I ₃	I ₁	I ₂	I ₃	I ₁	I ₂	I ₃	I ₁	I ₂	I ₃	I ₁	I ₂	I ₃	I ₁	I ₂	I ₃	I ₁	I ₂	I ₃	I ₁	I ₂	I ₃	
≤ 30.0	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	—	—	3 3/4"
>31-40	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	—	—	3 3/4"
>41-60	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	—	—	3 3/4"	—	—	—	
>61-80	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	3 3/4"	3 3/4"	3 3/4"	—	—	3 3/4"	—	—	—	—	—	—	
>81-105	4"	4"	4"	4"	4"	4"	3 3/4"	3 3/4"	4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	—	—	—	—	—	—	—	—	—	
>105-115	4"	4"	4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	—	—	—	—	—	—	—	—	—	—	—	—	



P.E. SEAL/SIGNATURE/DATE

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CA-0008719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

IMPACT PROTECTIVE ROLLING SYSTEM
WITH CHD-6 SLAT (END RETENTION)



ADVANCED
HURRICANE
TECHNOLOGY

18501 OLD AIRPORT
HAUL RD. FORT MYERS,
FL 33913

Y.M.
DRAWN BY:

08/17/2023
DATE:

23-185
DRAWING No.

SHEET 15 OF 22

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-052	08/17/23	3	—	—
2	—	—	4	—	—

MAX. ANCHOR'S SPACING SCHEDULE **Vb'** FOR A GIVEN PRODUCT MOUNTING TYPE,
W/ 5/16"Ø TAPCON XL OR 3/8 " Ø KWIK BOLT 3 ANCHORS TO GROUT FILLED CELL CONCRETE BLOCK WALL,
A.S.D. DESIGN PRESSURE RATING & SLAT SPAN RANGE †

WALL MOUNT

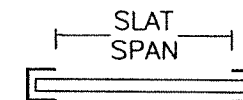
MAX. A.S.D. DESIGN PRESSURE RATING RANGE (p.s.f.)	SLAT SPAN RANGE							
	0'-4' †	> 4'-5' †	> 5'-6' †	> 6'-7' †	> 7'-9' †	> 9'-12' †	> 12'-16' †	>16'-21'-8"†
≤ 30.0	6"	6"	4"	4"	4"	4"	4"	4"
>31-40	6"	6"	4"	4"	4"	4"	4"	4"
>41-60	6"	6"	4"	4"	4"	4"	4"	4"
>61-80	6"	6"	4"	4"	4"	4"	4"	4"
>81-105	6"	6"	4"	4"	4"	4"	4"	4"
>106-120	6"	6"	4"	4"	4"	4"	4"	4"
>121-140	6"	6"	4"	4"	4"	4"	4"	4"

TRAPPED MOUNT

MAX. A.S.D. DESIGN PRESSURE RATING RANGE (p.s.f.)	SLAT SPAN RANGE							
	0'-4' †	> 4'-5' †	> 5'-6' †	> 6'-7' †	> 7'-9' †	> 9'-12' †	> 12'-16' †	>16'-21'-8"†
≤ 30.0	6"	5"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
>31-40	6"	5"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
>41-60	6"	5"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
>61-80	6"	5"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
>81-105	6"	5"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
>106-120	6"	5"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
>121-140	6"	5"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"

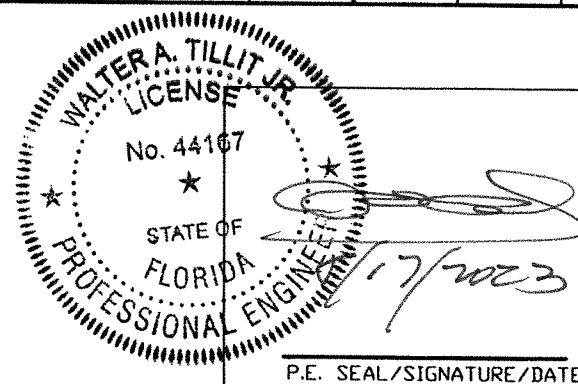
BUILD-OUT MOUNT

MAX. A.S.D. DESIGN PRESSURE RATING RANGE (p.s.f.)	SLAT SPAN RANGE																							
	0'-4' †			> 4'-5' †			> 5'-6' †			> 6'-7' †			> 7'-9' †			> 9'-12' †			> 12'-16' †			>16'-21'-8"†		
	⑪	⑫	⑬	⑪	⑫	⑬	⑪	⑫	⑬	⑪	⑫	⑬	⑪	⑫	⑬	⑪	⑫	⑬	⑪	⑫	⑬	⑪	⑫	⑬
≤ 30.0	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	—	—	4"	—	—	—
>31-40	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	—	—	4"	—	—	—
>41-60	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	—	—	4"	—	—	—
>61-80	4"	4"	4"	4"	4"	4"	4"	4"	4"	—	—	4"	—	—	4"	—	—	4"	—	—	4"	—	—	—
>81-105	4"	4"	4"	4"	4"	4"	4"	4"	4"	—	—	4"	—	—	4"	—	—	4"	—	—	4"	—	—	—
>105-115	4"	4"	4"	4"	4"	4"	—	—	4"	—	—	4"	—	—	4"	—	—	4"	—	—	4"	—	—	—



SLAT SPAN DEFINITION

† NOTE:
MAX. SLAT SPAN FOR A
GIVEN A.S.D. DESIGN
PRESSURE RATING SHALL
NEVER EXCEED MAX. SLAT
SPAN INDICATED ON SLAT
PERFORMANCE CHART ON
SHEET 13.



P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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TILLIT TESTING & ENGINEERING COMPANY
6300 N.W. 30th St., Ste. 300, VIRGINIA GARDENS, FL 33108
Phone : (305)871-1830 • Fax : (305)871-1831
CA-0008719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

IMPACT PROTECTIVE ROLLING SYSTEM
WITH CHD-6 SLAT (END RETENTION)



**ADVANCED
HURRICANE
TECHNOLOGY INC.**
18501 OLD AIRPORT
HAUL RD. FORT MYERS,
FL 33913

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-052	08/17/23	3	-	-
2	-	-	4	-	-

Y.M.
DRAWN BY:

08/17/2023
DATE:

23-185
DRAWING No.

SHEET 16 OF 22

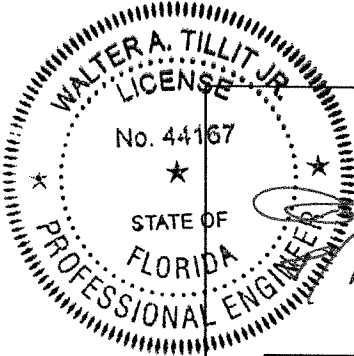
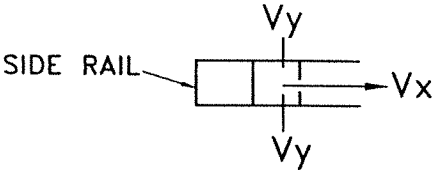
SCHEDULE Vc:
Vx FORCES (Lb/FT) & Vy FORCES (Lb/FT) ACTING AT JAMBS FOR AN A.S.D. DESIGN LOAD RANGE, SLAT SPAN RANGE FOR
POURED CONCRETE OR GROUT FILLED CELL CONCRETE BLOCK WALL BUILDINGS*
(USE MAXIMUM VALUE BETWEEN POSITIVE AND NEGATIVE A.S.D. LOAD)

MAXIMUM A.S.D. DESIGN PRESSURE RATING (psf)	SLAT SPAN RANGE																	
	0'-4'		> 4'-5'		> 5'-6'		> 6'-7'		> 7'-9'		> 9'-12'		> 12'-16'		> 16'-20'		> 20'-21'-8"	
	Vx	Vy	Vx	Vy	Vx	Vy	Vx	Vy	Vx	Vy	Vx	Vy	Vx	Vy	Vx	Vy	Vx	Vy
≤ 30.0	0	60	0	75	20	90	181	105	427	135	739	180	1134	240	1530	300	1696	325
>31-40	0	80	0	100	127	120	307	140	599	180	986	240	1485	320	1736	360	-	-
>41-60	0	120	55	150	330	180	551	210	932	270	1461	360	1722	405	-	-	-	-
>61-80	0	160	215	200	525	240	786	280	1254	360	1698	440	-	-	-	-	-	-
>81-105	0	210	407	263	763	315	1073	368	1645	473	1714	486	-	-	-	-	-	-
>106-120	20	240	519	300	902	360	1242	420	1719	510	-	-	-	-	-	-	-	-
>121-140	138	280	666	350	1086	420	1463	490	1734	543	-	-	-	-	-	-	-	-



SLAT SPAN DEFINITION

*** NOTE:**
IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR PERMIT HOLDER TO VERIFY THAT EXISTING STRUCTURE IS DESIGNED TO SUPPORT Vx AND Vy FORCES IN POUNDS PER UNIT FOOT OF PRODUCT HEIGHT AT BOTH JAMBS.
SEE THIS SHEET FOR Vx & Vy VALUES.



P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

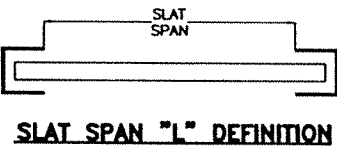
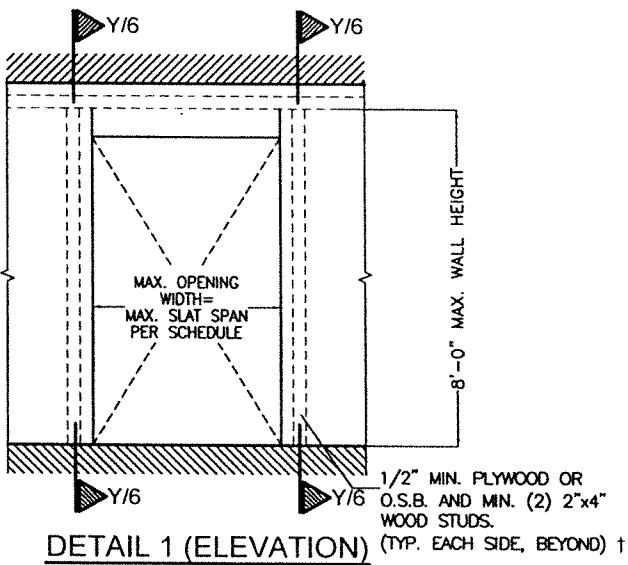
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TILTECO inc.
TILLIT TESTING & ENGINEERING COMPANY
6300 N.W. 39th St., Ste. 305, VIRGINIA GARDENS, FL 33186
Phone : (305)871-1830 • Fax : (305)871-1831
CA-0008719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

IMPACT PROTECTIVE ROLLING SYSTEM WITH CHD-6 SLAT (END RETENTION)				Y.M. DRAWN BY:	
 ADVANCED HURRICANE TECHNOLOGY 16501 OLD AIRPORT HAUL RD. FORT MYERS, FL 33913				08/17/2023 DATE:	
				23-185 DRAWING No.	
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-052	08/17/23	3	-	-
2	-	-	4	-	-

SLAT PERFORMANCE CHART Ib1 & Ic1

FOR A GIVEN MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f) AND SHUTTER MOUNT CONDITION FOR INSTALLATIONS PER DETAIL 1 BELOW

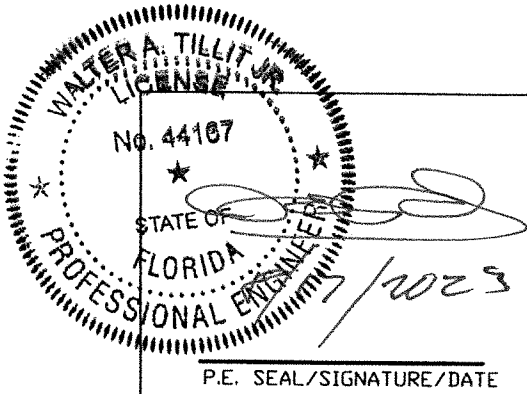
CHART Ib1				CHART Ic1
USE MAXIMUM VALUE BETWEEN POSITIVE AND NEGATIVE A.S.D. LOAD				USE MAXIMUM POSITIVE A.S.D. LOAD VALUE
5/16"Ø TAPCON XL ANCHOR				
MAXIMUM A.S.D. DESIGN PRESSURE RATING (psf)	MAX. SLAT SPAN "L _{MAX.} " (ft)			REQUIRED MIN. SEPARATION TO GLASS MEASURED TO BACK OF SLAT (in)
	WALL MOUNT (SEE NOTES Δ)	BUILD-OUT MOUNT W/ 1" (SEE NOTES Δ)	BUILD-OUT MOUNT W/ 1" (SEE NOTES Δ)	
30.0 *	12'-0"	10'-0"	10'-0"	5 1/4"
35.0 **	10'-0"	10'-0"	10'-0"	5 1/4"
40.0 **	10'-0"	10'-0"	10'-0"	5 1/4"
45.0 ***	10'-0"	10'-0"	10'-0"	5 1/4"
50.0 ***	10'-0"	10'-0"	10'-0"	5 1/4"
55.0 ***	8'-0"	8'-0"	10'-0"	4 1/4"



MAXIMUM A.S.D. DESIGN LOAD VS WOOD GRADE SCHEDULE:	
* VALID FOR DOUGLAS-FIR-SOUTH (G=0.46)	
SOUTHERN PINE #2 (G=0.55)	
SPRUCE PINE-FIR-SITH (G=0.36)	
** VALID FOR DOUGLAS-FIR-SOUTH (G=0.46)	
SOUTHERN PINE #2 (G=0.55)	
*** VALID FOR SOUTHERN PINE #2 (G=0.55)	

- Δ NOTES:
- ABOVE INDICATED MAX. SLAT SPANS MAY BE USED AS LONG AS ANCHOR SPACING SCHEDULES ON SHEET 19 INDICATE THAT A SPACING IS AVAILABLE FOR THE CORRESPONDING SLAT SPAN AND A.S.D. DESIGN LOAD.
- †: WOOD FRAME WALL TO BE BUILT STRICTLY IN ACCORDANCE WITH SPECS GIVEN ON SHEET 6 AND PROVISIONS FROM CHAPTER 23 OF THE FLORIDA BUILDING CODE. MINIMUM LENGTH OF WALL AT EITHER SIDE OF OPENING SHALL BE 33".

INSTALLATIONS INTO WOOD FRAME BUILDINGS



FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)						
©2023 TILTECO, INC. TILTECO inc. TILTIT TESTING & ENGINEERING COMPANY 6300 N.W. 36th. St., Ste. 300, VIRGINIA GARDENS, FL 33188 Phone : (305)871-1830 • Fax : (305)871-1831 CA-0006719 WALTER A. TILIT Jr. P.E. FLORIDA Lic. # 44187 <td colspan="4">IMPACT PROTECTIVE ROLLING SYSTEM WITH CHD-6 SLAT (END RETENTION)</td> <td colspan="2">Y.M. DRAWN BY:</td>	IMPACT PROTECTIVE ROLLING SYSTEM WITH CHD-6 SLAT (END RETENTION)				Y.M. DRAWN BY:	
	AT ADVANCED HURRICANE TECHNOLOGY			ADVANCED HURRICANE TECHNOLOGY INC.		08/17/2023
				16501 OLD AIRPORT HAUL RD. FORT MYERS, FL. 33913		DATE:
						23-185
						DRAWING No.
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 18 OF 22
1	OLD 23-052	08/17/23	3	-	-	
2	-	-	4	-	-	

MAX. ANCHOR'S SPACING SCHEDULE VI FOR A GIVEN SHUTTER MOUNTING TYPE, WOOD GRADE, A.S.D. DESIGN LOAD (psf) AND SLAT SPAN RANGE FOR INSTALLATIONS INTO WOOD BUILDINGS;

SEE SHT.7 SECTION O'-O' FOR ANCHOR SPEC'S & GENERAL NOTE 7C ON SHT. 1

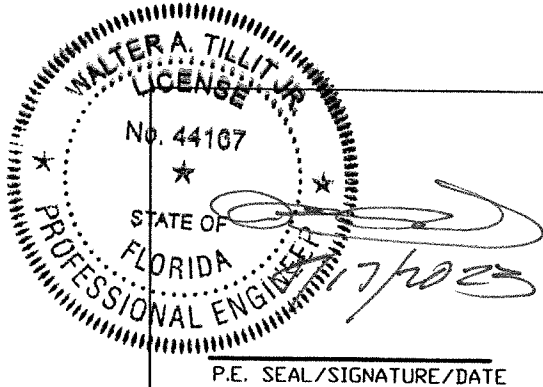
WALL MOUNT TO MIN. 2"x4" WOOD STUD WITH MINIMUM 1/2" PLYWOOD
(SEE DETAIL 1 ON SHEET 18)

WOOD GRADE	MAXIMUM A.S.D. DESIGN PRESSURE RATING RANGE (psf)	SLAT SPAN RANGE						
		0' to 4' *	> 4' to 5' *	> 5' to 6' *	> 6' to 7' *	> 7' to 9' *	> 9' to 10' *	>10' to 12' *
SOUTHERN PINE #2 (G=0.55)	≤ 30.0	6"	6"	6"	6"	6"	6"	6"
	40	6"	6"	6"	6"	6"	4 3/4"	4 1/2"
	50	6"	6"	6"	6"	4 3/4"	3 1/2"	3"
	55	6"	6"	5 3/4"	5 1/4"	3 3/4"	3"	3"
DOUGLAS-FIR-SOUTH (G=0.46)	≤ 30.0	6"	6"	6"	6"	6"	6"	6"
	40	6"	6"	6"	5 1/4"	5 1/4"	4 1/4"	3"
SPRUCE PINE-FIR-SOUTH (G=0.36)	≤ 30.0	6"	6"	6"	6"	6"	5 1/4"	4 1/2"

BUILD-OUT MOUNT TO MIN. 2"x4" WOOD STUD WITH MINIMUM 1/2" PLYWOOD
(SEE DETAIL 1 ON SHEET 18)

WOOD GRADE	MAXIMUM A.S.D. DESIGN PRESSURE RATING RANGE (psf)	SLAT SPAN RANGE													
		0'-4' *		> 4'-5' *		> 5'-6' *		> 6'-7' *		> 7'-9' *		> 9'-10' *		> 10' to 12' *	
		BUILD-OUT MOUNT W/ (P)	BUILD-OUT MOUNT W/ (P)	BUILD-OUT MOUNT W/ (P)	BUILD-OUT MOUNT W/ (P)	BUILD-OUT MOUNT W/ (P)	BUILD-OUT MOUNT W/ (P)	BUILD-OUT MOUNT W/ (P)	BUILD-OUT MOUNT W/ (P)	BUILD-OUT MOUNT W/ (P)	BUILD-OUT MOUNT W/ (P)	BUILD-OUT MOUNT W/ (P)	BUILD-OUT MOUNT W/ (P)	BUILD-OUT MOUNT W/ (P)	BUILD-OUT MOUNT W/ (P)
SOUTHERN PINE #2 (G=0.55)	≤ 30.0	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"
	40	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	5 1/4"	5 1/4"	5 1/4"	5 1/4"
	50	6"	6"	6"	6"	6"	6"	6"	6"	5 1/4"	5 1/4"	4"	4"	4"	4"
	55	6"	6"	6"	6"	6"	6"	5 3/4"	5 3/4"	4"	4"	3"	3"	3"	3"
DOUGLAS-FIR-SOUTH (G=0.46)	≤ 30.0	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"
	40	6"	6"	6"	6"	6"	6"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
SPRUCE PINE-FIR-SOUTH (G=0.36)	≤ 30.0	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	5 1/4"	5"	5 1/4"	5"

* NOTE:
MAX. SPAN FOR SLAT FOR A GIVEN A.S.D. DESIGN LOAD SHALL NEVER EXCEED MAX. SLAT SPAN INDICATED ON SLAT PERFORMANCE CHARTS ON SHEET 18.



FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)											
©2023 TILTECO, INC. TILTECO inc. TILLIT TESTING & ENGINEERING COMPANY 6305 N.W. 38th. St., Ste. 300, VIRGINIA GARDENS, FL 33186 Phone : (305)671-1530 • Fax : (305)671-1531 CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167					IMPACT PROTECTIVE ROLLING SYSTEM WITH CHD-6 SLAT (END RETENTION) AT ADVANCED HURRICANE TECHNOLOGY ADVANCED HURRICANE TECHNOLOGY INC. 16501 OLD AIRPORT HAUL RD. FORT MYERS, FL 33913					Y.M. DRAWN BY: 08/17/2023 DATE: 23-185 DRAWING No. SHEET 19 OF 22	
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE						
1	OLD 23-052	08/17/23	3	-	-						
2	-	-	4	-	-						

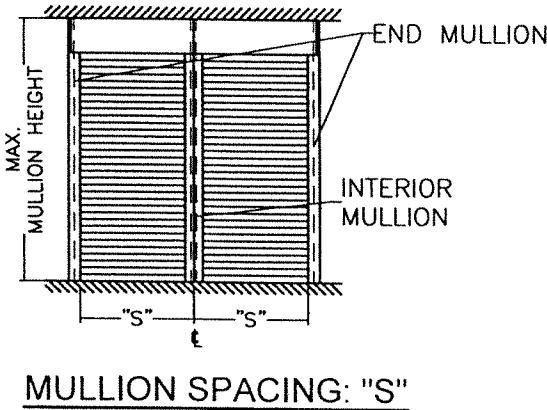
MAX. SPAN (ft) FOR END AND INTERIOR MULLIONS FOR A GIVEN A.S.D. DESIGN PRESSURE RATING (p.s.f.), & A MAX. MULLION SPACING (ft) *

MAX. SPAN (FT) FOR END AND INTERIOR MULLIONS FOR A GIVEN A.S.D. DESIGN PRESSURE RATING (P.S.F.), & A MAX. MULLION SPACING (FT) *

MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM MULLION SPACING (ft) *	MAXIMUM MULLION SPAN (FT)									
		ⓐ 4"x6"x1/4" MULLION				Ⓚ 4"x8"x1/4" MULLION				Ⓛ 4"x4"x1/4" MULLION	
		ORIENTATION #2 (⇔) †		ORIENTATION #1 (⏊) †		ORIENTATION #2 (⇔) †		ORIENTATION #1 (⏊) †		INTERIOR	
		END	INTERIOR	END	INTERIOR	END	INTERIOR	END	INTERIOR		
30.0	21'-8"	7'-10"	9'-8"	7'-3"	12'-0"	9'-4"	10'-7"	8'-0"	12'-6"	7'-4"	
35.0	19'-9"	7'-4"	9'-3"	6'-9"	11'-5"	8'-8"	10'-0"	7'-7"	12'-6"	7'-3"	
40.0	18'-0"	6'-10"	8'-10"	6'-4"	10'-11"	8'-1"	9'-7"	7'-3"	12'-6"	7'-2"	
45.0	16'-6"	6'-6"	8'-6"	6'-6"	10'-6"	7'-8"	9'-3"	6'-11"	12'-6"	7'-1"	
50.0	15'-3"	6'-2"	8'-2"	6'-0"	9'-11"	7'-4"	8'-11"	6'-7"	12'-6"	7'-0"	
55.0	14'-3"	5'-11"	7'-11"	5'-9"	9'-0"	6'-8"	8'-7"	6'-3"	12'-4"	6'-11"	
60.0	13'-6"	5'-9"	7'-9"	5'-6"	8'-6"	6'-4"	8'-6"	6'-2"	12'-0"	6'-10"	
65.0	12'-9"	5'-9"	7'-9"	5'-4"	8'-4"	6'-4"	8'-4"	6'-2"	11'-10"	6'-10"	
70.0	12'-0"	5'-9"	7'-8"	5'-4"	8'-2"	6'-3"	8'-2"	6'-2"	11'-9"	6'-9"	
75.0	11'-6"	5'-9"	7'-7"	5'-4"	8'-0"	6'-3"	8'-0"	6'-2"	11'-7"	6'-9"	
80.0	11'-0"	5'-9"	7'-7"	5'-4"	7'-10"	6'-3"	7'-10"	6'-2"	11'-6"	6'-8"	
85.0	10'-6"	5'-9"	7'-7"	5'-4"	7'-9"	6'-3"	7'-9"	6'-2"	11'-5"	6'-7"	
90.0	10'-3"	5'-10"	7'-7"	5'-5"	7'-9"	6'-4"	7'-9"	6'-3"	11'-5"	6'-7"	
95.0	9'-9"	5'-10"	7'-7"	5'-6"	7'-9"	6'-5"	7'-9"	6'-4"	11'-5"	6'-7"	
100.0	9'-6"	5'-11"	7'-7"	5'-7"	7'-9"	6'-6"	7'-9"	6'-4"	11'-5"	6'-6"	
105.0	9'-3"	6'-0"	7'-7"	5'-7"	7'-9"	6'-7"	7'-9"	6'-5"	11'-5"	6'-5"	
110.0	9'-0"	6'-0"	7'-7"	5'-8"	7'-9"	6'-8"	7'-9"	6'-6"	11'-5"	6'-5"	
115.0	8'-9"	6'-1"	7'-7"	5'-9"	7'-9"	6'-9"	7'-9"	6'-7"	11'-5"	6'-5"	
120.0	8'-6"	6'-1"	7'-6"	5'-9"	7'-9"	6'-10"	7'-9"	6'-7"	11'-5"	6'-4"	
125.0	8'-3"	6'-2"	7'-7"	5'-10"	7'-10"	7'-0"	7'-10"	6'-9"	11'-5"	6'-4"	
130.0	8'-0"	6'-3"	7'-7"	5'-10"	7'-9"	7'-0"	7'-9"	6'-9"	11'-5"	6'-4"	
135.0	7'-9"	6'-4"	7'-7"	5'-11"	7'-10"	7'-2"	7'-10"	6'-10"	11'-5"	6'-4"	
140.0	7'-9"	6'-4"	7'-7"	6'-0"	7'-10"	7'-3"	7'-10"	6'-11"	11'-5"	6'-3"	

MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM MULLION SPACING (ft) *	MAXIMUM MULLION SPAN (FT)									
		ⓐ 4"x6"x1/4" MULLION				Ⓚ 4"x8"x1/4" MULLION				Ⓛ 4"x4"x1/4" MULLION	
		ORIENTATION #2 (⇔) †		ORIENTATION #1 (⏊) †		ORIENTATION #2 (⇔) †		ORIENTATION #1 (⏊) †		INTERIOR	
		END	INTERIOR	END	INTERIOR	END	INTERIOR	END	INTERIOR		
30.0	21'-8"	7'-10"	9'-8"	7'-3"	12'-0"	9'-4"	10'-7"	8'-0"	12'-6"	7'-4"	
35.0	19'-9"	7'-4"	9'-3"	6'-9"	11'-5"	8'-8"	10'-0"	7'-7"	12'-6"	7'-3"	
40.0	18'-0"	6'-10"	8'-10"	6'-4"	10'-11"	8'-1"	9'-7"	7'-3"	12'-6"	7'-2"	
45.0	16'-6"	6'-6"	8'-6"	6'-6"	10'-6"	7'-8"	9'-3"	6'-11"	12'-6"	7'-1"	
50.0	15'-3"	6'-2"	8'-2"	6'-0"	10'-2"	7'-4"	8'-11"	5'-3"	12'-6"	7'-0"	
55.0	14'-3"	5'-11"	7'-11"	5'-9"	9'-10"	7'-0"	8'-7"	4'-10"	12'-4"	6'-11"	
60.0	13'-6"	5'-9"	7'-9"	5'-6"	9'-8"	6'-10"	8'-6"	4'-8"	12'-0"	6'-10"	
65.0	12'-9"	5'-9"	7'-9"	5'-4"	9'-7"	6'-10"	8'-5"	4'-8"	11'-10"	6'-10"	
70.0	12'-0"	5'-9"	7'-8"	5'-4"	9'-6"	6'-10"	8'-4"	4'-8"	11'-9"	6'-9"	
75.0	11'-6"	5'-9"	7'-7"	5'-4"	9'-5"	6'-10"	8'-3"	4'-8"	11'-7"	6'-9"	
80.0	11'-0"	5'-9"	7'-7"	5'-4"	9'-4"	6'-10"	8'-3"	4'-8"	11'-6"	6'-8"	
85.0	10'-6"	5'-9"	7'-7"	5'-4"	9'-3"	6'-10"	8'-2"	4'-8"	11'-5"	6'-7"	
90.0	10'-3"	5'-10"	7'-7"	5'-5"	9'-3"	6'-11"	8'-3"	4'-10"	11'-5"	6'-7"	
95.0	9'-9"	5'-10"	7'-7"	5'-6"	9'-3"	6'-11"	8'-3"	4'-11"	11'-5"	6'-7"	
100.0	9'-6"	5'-11"	7'-7"	5'-7"	9'-3"	7'-0"	8'-2"	5'-0"	11'-5"	6'-6"	
105.0	9'-3"	6'-0"	7'-7"	5'-7"	9'-3"	7'-1"	8'-2"	5'-1"	11'-5"	6'-5"	
110.0	9'-0"	6'-0"	7'-7"	5'-8"	9'-3"	7'-2"	8'-3"	5'-4"	11'-5"	6'-5"	
115.0	8'-9"	6'-1"	7'-7"	5'-9"	9'-3"	7'-2"	8'-3"	5'-4"	11'-5"	6'-5"	
120.0	8'-6"	6'-1"	7'-6"	5'-9"	9'-3"	7'-3"	8'-2"	5'-5"	11'-5"	6'-4"	
125.0	8'-3"	6'-2"	7'-7"	5'-10"	9'-3"	7'-4"	8'-3"	6'-9"	11'-5"	6'-4"	
130.0	8'-0"	6'-3"	7'-7"	5'-10"	9'-3"	7'-4"	8'-2"	6'-9"	11'-5"	6'-4"	
135.0	7'-9"	6'-4"	7'-7"	5'-11"	9'-3"	7'-5"	8'-3"	6'-10"	11'-5"	6'-4"	
140.0	7'-9"	6'-4"	7'-7"	6'-0"	9'-3"	7'-6"	8'-3"	6'-11"	11'-5"	6'-3"	

* MAXIMUM MULLION SPACING SHALL BE SUCH THAT MAX. ALLOWABLE WALL MOUNTED SLAT SPAN FOR THAT A.S.D. DESIGN PRESSURE RATING SHALL NOT BE EXCEEDED.
† MULLION ORIENTATION IS AS SEEN FROM THE OUTSIDE (EXTERIOR) OF PRODUCT.



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
6305 N.W. 36th St., Ste. 300, VERO BEACH, FL 33408
Phone: (305)871-1530 • Fax: (305)871-1531
CA-0006719

WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

IMPACT PROTECTIVE ROLLING SYSTEM WITH CHD-6 SLAT (END RETENTION)

AT ADVANCED HURRICANE TECHNOLOGY

ADVANCED HURRICANE TECHNOLOGY INC.
16501 OLD AIRPORT HAUL RD. FORT MYERS, FL 33913

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-052	08/17/23	3	-	-
2	-	-	4	-	-

Y.M. DRAWN BY:

08/17/2023 DATE:

23-185 DRAWING No.

SHEET 20 OF 22

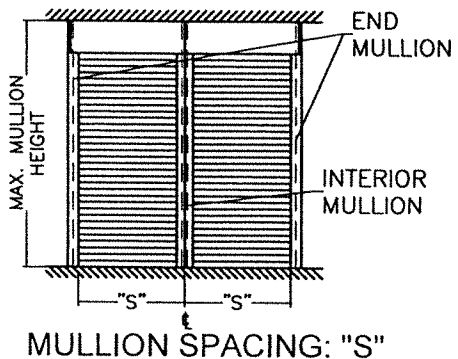
SCHEDULE 1b
FLOOR TO CEILING (TRAPPED) MOUNTING MAX. SPAN (ft) FOR END AND INTERIOR MULLIONS FOR A GIVEN
A.S.D. DESIGN PRESSURE RATING (p.s.f.), & A 12'-0" MAX. MULLION SPACING (ft) *

MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM MULLION SPACING (ft) *	MAXIMUM MULLION SPAN (FT)									
		J 4"x6"x1/4" MULLION					K 4"x8"x1/4" MULLION				
		ORIENTATION #2 (⇌) †		ORIENTATION #1 (⊥) †			ORIENTATION #2 (⇌) †		ORIENTATION #1 (⊥) †		
		END	INTERIOR	END	INTERIOR		END	INTERIOR	END	INTERIOR	
30.0	12'-0"	11'-7"	11'-6"	9'-9"	12'-6"		12'-6"	12'-6"	10'-7"	12'-6"	9'-0"
35.0	12'-0"	10'-7"	10'-11"	9'-2"	12'-6"		12'-6"	12'-6"	11'-11"	10'-0"	8'-6"
40.0	12'-0"	9'-10"	10'-5"	8'-9"	12'-6"		11'-8"	11'-4"	9'-6"	12'-6"	8'-2"
45.0	12'-0"	9'-3"	10'-1"	8'-4"	12'-5"		10'-11"	10'-11"	9'-1"	12'-6"	7'-10"
50.0	12'-0"	8'-9"	9'-8"	8'-1"	12'-0"		10'-4"	10'-7"	8'-9"	12'-6"	7'-5"
55.0	12'-0"	8'-4"	9'-5"	7'-10"	11'-8"		9'-10"	10'-3"	8'-6"	12'-6"	7'-4"
60.0	12'-0"	8'-0"	9'-2"	7'-6"	11'-4"		9'-5"	9'-11"	8'-3"	12'-6"	7'-2"
65.0	12'-0"	7'-8"	8'-11"	7'-2"	11'-0"		9'-1"	9'-8"	8'-0"	12'-6"	6'-11"
70.0	12'-0"	7'-4"	8'-8"	6'-11"	10'-9"		8'-9"	9'-5"	7'-10"	12'-6"	6'-9"
75.0	12'-0"	7'-1"	8'-6"	6'-8"	10'-6"		8'-5"	9'-3"	7'-8"	12'-6"	-
80.0	12'-0"	6'-11"	8'-4"	6'-5"	10'-3"		8'-2"	9'-0"	7'-5"	12'-6"	-
85.0	12'-0"	6'-8"	8'-2"	6'-3"	9'-9"		7'-11"	8'-10"	7'-2"	12'-6"	-
90.0	12'-0"	6'-6"	8'-0"	6'-1"	9'-2"		7'-8"	8'-8"	7'-0"	12'-5"	-
95.0	12'-0"	6'-4"	7'-10"	5'-11"	8'-8"		7'-5"	8'-6"	6'-10"	12'-1"	-
100.0	12'-0"	6'-2"	7'-8"	5'-9"	8'-3"		7'-0"	8'-3"	6'-8"	11'-9"	-
105.0	12'-0"	6'-0"	7'-7"	5'-8"	7'-10"		6'-8"	7'-10"	6'-6"	11'-6"	-

SCHEDULE 1b' (LIMITED LOAD, MULLION SPACING & SPAN INSTALLATION)
FLOOR TO CEILING (TRAPPED) MOUNTED MAX. SPAN (ft) FOR END & INTERIOR MULLIONS FOR A
GIVEN A.S.D. DESIGN PRESSURE (p.s.f.), AND FOR 12'-0" (CASE I) & 8'-0" (CASES Ia & II) MAX. MULLION
SPACING (ft) *

INSTALLATION CASES	MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM MULLION SPACING (ft) *	MAXIMUM MULLION SPAN (FT)						
			J 4"x6"x1/4" MULLION		K 4"x8"x1/4" MULLION			L 4"x4"x1/4" MULLION	
			ORIENTATION #2 (⇌) †		ORIENTATION #1 (⊥) †			ORIENTATION #2 (⇌) †	
			END	INTERIOR	END	INTERIOR		END	INTERIOR
CASE I	30.0	12'-0"	-	12'-6"	12'-6"	12'-6"		12'-6"	9'-0"
	35.0	12'-0"	-	12'-6"	12'-6"	11'-11"		12'-6"	8'-6"
	40.0	12'-0"	-	12'-6"	11'-8"	11'-4"		12'-6"	8'-2"
	45.0	12'-0"	-	12'-5"	10'-11"	10'-11"		12'-6"	7'-10"
	50.0	12'-0"	-	12'-0"	10'-4"	10'-7"		12'-6"	7'-5"
	55.0	12'-0"	-	11'-8"	9'-10"	10'-3"		12'-6"	7'-4"
	60.0	12'-0"	-	11'-4"	9'-5"	9'-11"		12'-6"	7'-2"
	60.8	12'-0"	-	11'-3"	9'-4"	9'-11"		12'-6"	7'-0"
CASE Ia	30.0	8'-0"	-	12'-6"	12'-6"	12'-6"		12'-6"	10'-0"
	35.0	8'-0"	-	12'-6"	12'-6"	12'-6"		12'-6"	9'-9"
	40.0	8'-0"	-	12'-6"	12'-6"	12'-6"		12'-6"	9'-4"
	45.0	8'-0"	-	12'-6"	12'-6"	12'-6"		12'-6"	9'-0"
	50.0	8'-0"	-	12'-6"	12'-6"	12'-1"		12'-6"	8'-7"
	55.0	8'-0"	-	12'-6"	12'-6"	11'-8"		12'-6"	8'-5"
	60.0	8'-0"	-	12'-2"	12'-2"	11'-4"		12'-2"	8'-2"
	60.8	8'-0"	-	12'-0"	12'-0"	11'-4"		12'-0"	8'-2"
CASE II	30.0	8'-0"	-	9'-0"	9'-0"	9'-0"		9'-0"	10'-0"
	35.0	8'-0"	-	9'-0"	9'-0"	9'-0"		9'-0"	9'-9"
	40.0	8'-0"	-	9'-0"	9'-0"	9'-0"		9'-0"	9'-4"
	45.0	8'-0"	-	9'-0"	9'-0"	9'-0"		9'-0"	9'-0"
	50.0	8'-0"	-	9'-0"	9'-0"	9'-0"		9'-0"	8'-7"
	55.0	8'-0"	-	9'-0"	9'-0"	9'-0"		9'-0"	8'-5"
	60.0	8'-0"	-	9'-0"	9'-0"	9'-0"		9'-0"	8'-2"
	65.0	8'-0"	-	9'-0"	9'-0"	9'-0"		9'-0"	7'-11"
	70.0	8'-0"	-	9'-0"	9'-0"	9'-0"		9'-0"	7'-9"
	75.0	8'-0"	-	9'-0"	9'-0"	9'-0"		9'-0"	7'-6"
	80.0	8'-0"	-	9'-0"	9'-0"	8'-9"	*	9'-0"	7'-5"
	85.0	8'-0"	-	9'-0"	8'-9"	8'-3"	*	9'-0"	7'-3"
	90.0	8'-0"	-	9'-0"	8'-2"	7'-9"	*	9'-0"	7'-2"
	95.0	8'-0"	-	9'-0"	7'-8"	7'-4"	*	9'-0"	7'-0"
	100.0	8'-0"	-	9'-0"	7'-3"	7'-0"	*	9'-0"	6'-10"

* NOTE: USE 9'-0" IF ANCHOR CONSISTS OF ELCO CONFLUX SCREW
SEE SCHEDULES 1 & 2 ON SHEET 9



* MAXIMUM MULLION SPACING SHALL BE SUCH THAT
MAX. ALLOWABLE WALL MOUNTED SLAT SPAN FOR
THAT DESIGN LOAD SHALL NOT BE EXCEEDED.
† MULLION ORIENTATION IS AS SEEN FROM THE
OUTSIDE (EXTERIOR) OF PRODUCT.

WALTER A. TILIT JR.
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
P.E. SEAL/SIGNATURE/DATE

SCHEDULE 2b
WALL MOUNTING MAX. SPAN (FT) FOR END AND INTERIOR MULLIONS FOR A GIVEN A.S.D.
DESIGN PRESSURE RATING (P.S.F.), & A 12'-0" MAX. MULLION SPACING (FT) *

MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM MULLION SPACING (ft) *	MAXIMUM MULLION SPAN (FT)									
		J 4"x6"x1/4" MULLION					K 4"x8"x1/4" MULLION				
		ORIENTATION #2 (⇌) †		ORIENTATION #1 (⊥) †			ORIENTATION #2 (⇌) †		ORIENTATION #1 (⊥) †		
		END	INTERIOR	END	INTERIOR		END	INTERIOR	END	INTERIOR	
30.0	12'-0"	9'-9"	11'-6"	9'-9"	12'-6"		12'-6"	12'-6"	10'-7"	12'-6"	9'-0"
35.0	12'-0"	9'-2"	10'-11"	9'-2"	12'-6"		12'-6"	12'-6"	11'-11"	10'-0"	8'-6"
40.0	12'-0"	8'-9"	10'-5"	8'-9"	12'-6"		11'-8"	11'-4"	9'-6"	12'-6"	8'-2"
45.0	12'-0"	8'-4"	10'-1"	8'-4"	12'-5"		10'-11"	10'-11"	9'-1"	12'-6"	7'-10"
50.0	12'-0"	8'-1"	9'-8"	8'-1"	12'-0"		10'-4"	10'-7"	8'-9"	12'-6"	7'-5"
55.0	12'-0"	7'-10"	9'-5"	7'-10"	11'-8"		9'-10"	10'-3"	8'-6"	12'-6"	7'-4"
60.0	12'-0"	7'-6"	9'-2"	7'-6"	11'-4"		9'-5"	9'-11"	8'-3"	12'-6"	7'-2"
65.0	12'-0"	7'-2"	8'-11"	7'-2"	11'-0"		9'-1"	9'-8"	8'-0"	12'-6"	6'-11"
70.0	12'-0"	6'-11"	8'-8"	6'-11"	10'-9"		8'-9"	9'-5"	7'-10"	12'-6"	6'-9"
75.0	12'-0"	6'-8"	8'-6"	6'-8"	10'-6"		8'-5"	9'-3"	7'-8"	12'-6"	-
80.0	12'-0"	6'-5"	8'-4"	6'-5"	10'-3"		8'-2"	9'-0"	7'-5"	12'-6"	-
85.0	12'-0"	6'-3"	8'-2"	6'-3"	10'-1"		7'-11"	8'-10"	7'-2"	12'-6"	-
90.0	12'-0"	6'-1"	8'-0"	6'-1"	9'-11"		7'-8"	8'-8"	7'-0"	12'-5"	-
95.0	12'-0"	5'-11"	7'-10"	5'-11"	9'-8"		7'-6"	8'-6"	6'-10"	12'-1"	-
100.0	12'-0"	5'-9"	7'-8"	5'-9"	9'-7"		7'-4"	8'-5"	5'-6"	11'-9"	-
105.0	12'-0"	5'-8"	7'-7"	5'-8"	9'-4"		7'-1"	8'-3"	5'-3"	11'-6"	-

SCHEDULE 2b' (LIMITED LOAD, MULLION SPACING & SPAN INSTALLATION)
WALL MOUNTED MAX. SPAN (ft) FOR END & INTERIOR MULLIONS FOR A GIVEN
A.S.D. DESIGN PRESSURE RATING (p.s.f.), AND FOR 12'-0" (CASE I) & 8'-0" (CASE II) MAX.
MULLION SPACING (ft) *

INSTALLATION CASES	MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM MULLION SPACING (ft) *	MAXIMUM MULLION SPAN (FT)						
			J 4"x6"x1/4" MULLION		K 4"x8"x1/4" MULLION			L 4"x4"x1/4" MULLION	
			ORIENTATION #2 (⇌) †		ORIENTATION #1 (⊥) †			ORIENTATION #2 (⇌) †	
			END	INTERIOR	END	INTERIOR		END	INTERIOR
CASE I'	30.0	12'-0"	-	12'-6"	12'-6"	12'-6"		12'-6"	9'-0"
	35.0	12'-0"	-	12'-6"	12'-6"	11'-11"		12'-6"	8'-6"
	40.0	12'-0"	-	12'-6"	11'-8"	11'-4"		12'-6"	8'-2"
	45.0	12'-0"	-	12'-5"	10'-11"	10'-11"		12'-6"	7'-10"
	50.0	12'-0"	-	12'-0"	10'-4"	10'-7"		12'-6"	7'-5"
	55.0	12'-0"	-	11'-8"	9'-10"	10'-3"		12'-6"	7'-4"
	60.0	12'-0"	-	11'-4"	9'-5"	9'-11"		12'-6"	7'-2"
	60.8	12'-0"	-	11'-3"	9'-4"	9'-11"		12'-6"	7'-0"
CASE II'	30.0	8'-0"	-	9'-0"	9'-0"	9'-0"		9'-0"	10'-0"
	35.0	8'-0"	-	9'-0"	9'-0"	9'-0"		9'-0"	9'-9"
	40.0	8'-0"	-	9'-0"	9'-0"	9'-0"		9'-0"	9'-4"
	45.0	8'-0"	-	9'-0"	9'-0"	9'-0"		9'-0"	9'-0"
	50.0	8'-0"	-	9'-0"	9'-0"	9'-0"		9'-0"	8'-7"
	55.0	8'-0"	-	9'-0"	9'-0"	9'-0"		9'-0"	8'-5"
	60.0	8'-0"	-	9'-0"	9'-0"	9'-0"		9'-0"	8'-2"
	65.0	8'-0"	-	9'-0"	9'-0"	9'-0"		9'-0"	7'-11"
	70.0	8'-0"	-	9'-0"	9'-0"	9'-0"		9'-0"	7'-9"
	75.0	8'-0"	-	9'-0"	9'-0"	9'-0"		9'-0"	7'-6"
	80.0	8'-0"	-	9'-0"	9'-0"	9'-0"		9'-0"	7'-5"
	85.0	8'-0"	-	9'-0"	9'-0"	9'-0"		9'-0"	7'-3"
	90.0	8'-0"	-	9'-0"	9'-0"	9'-0"		9'-0"	7'-2"
	95.0	8'-0"	-	9'-0"	9'-0"	9'-0"		9'-0"	7'-0"
	100.0	8'-0"	-	9'-0"	9'-0"	9'-0"		9'-0"	6'-10"

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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TILTECO inc.
TILIT TESTING & ENGINEERING COMPANY
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Phone : (305)671-1530 • Fax : (305)671-1531
CA-0006719
WALTER A. TILIT Jr. P.E.
FLORIDA Lic. # 44167

IMPACT PROTECTIVE ROLLING SYSTEM WITH CHD-6 SLAT (END RETENTION)						Y.M. DRAWN BY:	
						08/17/2023 DATE:	
						23-185 DRAWING No.	
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 21 OF 22	
1	OLD 23-052	06/17/23	3	-	-		
2	-	-	4	-	-		

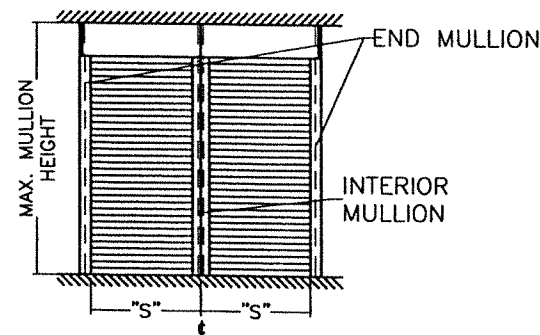
SCHEDULE 1c
FLOOR TO CEILING (TRAPPED) MOUNTING
MAX. SPAN (ft) FOR END AND INTERIOR MULLIONS FOR A GIVEN A.S.D. DESIGN
PRESSURE RATING (p.s.f.), & A 7'-0" MAX. MULLION SPACING (ft) *

MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM MULLION SPACING (ft) *	MAXIMUM MULLION SPAN (FT)									
		ⓐ 4"x6"x1/4" MULLION				ⓑ 4"x8"x1/4" MULLION				ⓒ 4"x4"x1/4" MULLION	
		ORIENTATION #2 (⇔) †		ORIENTATION #1 (Ⓛ) †		ORIENTATION #2 (⇔) †		ORIENTATION #1 (Ⓛ) †			
		END	INTERIOR	END	INTERIOR	END	INTERIOR	END	INTERIOR	INTERIOR	
30.0	7'-0"	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"	10'-0"	
35.0	7'-0"	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"	10'-0"	
40.0	7'-0"	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"	9'-9"	
45.0	7'-0"	12'-6"	12'-0"	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"	9'-4"	
50.0	7'-0"	12'-6"	11'-7"	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"	9'-1"	
55.0	7'-0"	12'-6"	11'-3"	12'-6"	12'-6"	12'-6"	12'-3"	12'-6"	12'-6"	8'-9"	
60.0	7'-0"	12'-6"	10'-11"	12'-6"	12'-6"	12'-6"	11'-11"	12'-6"	12'-6"	8'-6"	
65.0	7'-0"	12'-6"	10'-8"	12'-1"	12'-6"	12'-6"	11'-7"	12'-6"	12'-6"	8'-4"	
70.0	7'-0"	12'-6"	10'-5"	11'-6"	12'-6"	12'-6"	11'-3"	12'-6"	12'-6"	8'-1"	
75.0	7'-0"	12'-1"	10'-2"	10'-11"	12'-6"	12'-6"	11'-0"	11'-11"	12'-6"	7'-11"	
80.0	7'-0"	11'-6"	9'-11"	10'-6"	12'-4"	12'-6"	10'-10"	11'-5"	12'-6"	7'-9"	
85.0	7'-0"	11'-0"	9'-9"	10'-2"	12'-1"	12'-6"	10'-7"	11'-0"	12'-6"	7'-7"	
90.0	7'-0"	10'-7"	9'-7"	9'-10"	11'-10"	12'-5"	10'-5"	10'-8"	12'-6"	7'-5"	
95.0	7'-0"	10'-2"	9'-5"	9'-6"	11'-7"	11'-11"	10'-2"	10'-4"	12'-6"	7'-4"	
100.0	7'-0"	9'-10"	9'-3"	9'-3"	11'-5"	11'-6"	10'-0"	10'-1"	12'-6"	7'-2"	
105.0	7'-0"	9'-6"	9'-1"	9'-1"	11'-3"	11'-2"	9'-10"	9'-10"	12'-6"	7'-1"	
110.0	7'-0"	9'-3"	8'-11"	8'-10"	11'-1"	10'-10"	9'-9"	9'-7"	12'-6"	7'-0"	
115.0	7'-0"	9'-0"	8'-10"	8'-7"	10'-11"	10'-7"	9'-7"	9'-5"	12'-6"	6'-10"	
120.0	7'-0"	8'-9"	8'-8"	8'-5"	10'-9"	10'-3"	9'-5"	9'-3"	12'-6"	6'-9"	
125.0	7'-0"	8'-6"	8'-7"	8'-2"	10'-7"	10'-0"	9'-4"	9'-1"	12'-6"	6'-8"	
130.0	7'-0"	8'-4"	8'-5"	8'-0"	10'-6"	9'-9"	9'-2"	8'-11"	12'-6"	6'-7"	
135.0	7'-0"	8'-2"	8'-4"	7'-9"	10'-4"	9'-7"	9'-1"	8'-9"	12'-6"	6'-6"	
140.0	7'-0"	8'-0"	8'-3"	7'-7"	10'-1"	9'-4"	9'-0"	8'-7"	12'-6"	6'-5"	

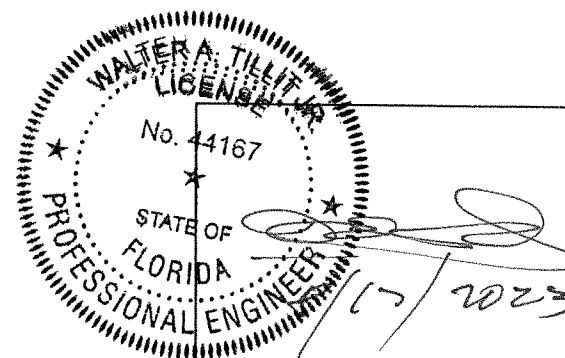
SCHEDULE 2c
WALL MOUNTING
MAX. SPAN (FT) FOR END AND INTERIOR MULLIONS FOR A GIVEN A.S.D.
DESIGN PRESSURE RATING (P.S.F.), & AND 7'-0" MAX. MULLION SPACING (FT) *

MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM MULLION SPACING (ft) *	MAXIMUM MULLION SPAN (FT)									
		ⓐ 4"x6"x1/4" MULLION				ⓑ 4"x8"x1/4" MULLION				ⓒ 4"x4"x1/4" MULLION	
		ORIENTATION #2 (⇔) †		ORIENTATION #1 (Ⓛ) †		ORIENTATION #2 (⇔) †		ORIENTATION #1 (Ⓛ) †			
		END	INTERIOR	END	INTERIOR	END	INTERIOR	END	INTERIOR	INTERIOR	
30.0	7'-0"	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"	10'-0"	
35.0	7'-0"	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"	10'-0"	
40.0	7'-0"	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"	9'-9"	
45.0	7'-0"	12'-6"	12'-0"	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"	9'-4"	
50.0	7'-0"	12'-6"	11'-7"	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"	9'-1"	
55.0	7'-0"	12'-6"	11'-3"	12'-6"	12'-6"	12'-6"	12'-3"	12'-6"	12'-6"	8'-9"	
60.0	7'-0"	12'-6"	10'-11"	12'-6"	12'-6"	12'-6"	11'-11"	12'-6"	12'-6"	8'-6"	
65.0	7'-0"	12'-6"	10'-8"	12'-1"	12'-6"	12'-6"	11'-7"	12'-6"	12'-6"	8'-4"	
70.0	7'-0"	12'-6"	10'-5"	11'-6"	12'-6"	12'-6"	11'-3"	12'-6"	12'-6"	8'-1"	
75.0	7'-0"	12'-1"	10'-2"	10'-11"	12'-6"	12'-6"	11'-0"	11'-11"	12'-6"	7'-11"	
80.0	7'-0"	11'-6"	9'-11"	10'-6"	12'-4"	12'-6"	10'-10"	11'-5"	12'-6"	7'-9"	
85.0	7'-0"	11'-0"	9'-9"	10'-2"	12'-1"	12'-6"	10'-7"	11'-0"	12'-6"	7'-7"	
90.0	7'-0"	10'-7"	9'-7"	9'-10"	11'-10"	12'-5"	10'-5"	10'-8"	12'-6"	7'-5"	
95.0	7'-0"	10'-2"	9'-5"	9'-6"	11'-7"	11'-11"	10'-2"	10'-4"	12'-6"	7'-4"	
100.0	7'-0"	9'-10"	9'-3"	9'-3"	11'-5"	11'-6"	10'-0"	10'-1"	12'-6"	7'-2"	
105.0	7'-0"	9'-6"	9'-1"	9'-1"	11'-3"	11'-2"	9'-10"	9'-10"	12'-6"	7'-1"	
110.0	7'-0"	9'-3"	8'-11"	8'-10"	11'-1"	10'-10"	9'-9"	9'-7"	12'-6"	7'-0"	
115.0	7'-0"	9'-0"	8'-10"	8'-7"	10'-11"	10'-7"	9'-7"	9'-5"	12'-6"	6'-10"	
120.0	7'-0"	8'-9"	8'-8"	8'-5"	10'-9"	10'-3"	9'-5"	9'-3"	12'-6"	6'-9"	
125.0	7'-0"	8'-6"	8'-7"	8'-2"	10'-7"	10'-0"	9'-4"	9'-1"	12'-6"	6'-8"	
130.0	7'-0"	8'-4"	8'-5"	8'-0"	10'-6"	9'-9"	9'-2"	8'-11"	12'-6"	6'-7"	
135.0	7'-0"	8'-2"	8'-4"	7'-9"	10'-4"	9'-7"	9'-1"	8'-9"	12'-6"	6'-6"	
140.0	7'-0"	8'-0"	8'-3"	7'-7"	10'-3"	9'-4"	9'-0"	8'-7"	12'-6"	6'-5"	

* MAXIMUM MULLION SPACING SHALL BE SUCH THAT MAX. ALLOWABLE WALL MOUNTED SLAT SPAN FOR THAT A.S.D. DESIGN PRESSURE RATING SHALL NOT BE EXCEEDED.
† MULLION ORIENTATION IS AS SEEN FROM THE OUTSIDE (EXTERIOR) OF PRODUCT.



MULLION SPACING: "S"



P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

IMPACT PROTECTIVE ROLLING SYSTEM
WITH CHD-6 SLAT (END RETENTION)



ADVANCED HURRICANE TECHNOLOGY INC.
16501 OLD AIRPORT
HAUL RD. FORT MYERS,
FL 33913

Y.M.
DRAWN BY:

06/17/2023
DATE:

23-185
DRAWING No.

SHEET 22 OF 22