

GENERAL NOTES:

1. FOLDING SHUTTER CORP. ROLL-UP SYSTEM 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.  
FOLDING SHUTTER CORP. ROLL-UP SYSTEM SHALL NOT BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES. H.V.H.Z. (MIAMI-DADE / BROWARD COUNTIES).
2. DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1609 OF THE ABOVE MENTIONED CODE USING ASCE 7-22 AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 13 OR 18.  
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 INCLUDED ON SHEETS 13 THRU 15, 17-18 & 19 THRU 21.  
  
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 ADEQUACY FOR IMPACT AND WIND RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1609.1.2 OF THE ABOVE MENTIONED CODE AS PER INTERTEK TEST LAB. REPORT # J8053.01-450-18RO AND BLACKWATER TECHNICAL SERVICES INC. REPORT # BT-FSC-22-001 AS PER TAS-201, TAS-202 AND TAS-203 PROTOCOLS.
3. ALL ALUMINUM EXTRUSIONS SHALL BE AS INDICATED ON SHEET 2.
4. ALL ALUMINUM EXTRUSIONS IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III-6 OF THE 2020 ALUMINUM DESIGN MANUAL.
5. ALL SCREWS 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.
6. BOLTS TO BE ASTM-307, GALVANIZED OR AISI 304 OR 316 SERIES STAINLESS STEEL WITH 36 KSI MINIMUM YIELD STRENGTH.
7. ANCHORS TO WALL FOR Ⓑ SIDE RAIL SHALL BE AS FOLLOWS: BASED ON EXISTING SUBSTRATE.

| POURED CONCRETE MIN f'c= 3 ksi |              |                   |                       | GROUTED f'c= 2000 psi FILLED CELL CONCRETE BLOCK (ASTM C-90) |              |                   |                       |
|--------------------------------|--------------|-------------------|-----------------------|--------------------------------------------------------------|--------------|-------------------|-----------------------|
| ANCHOR NAME                    | MANUFACTURER | MINIMUM EMBEDMENT | MINIMUM EDGE DISTANCE | ANCHOR NAME                                                  | MANUFACTURER | MINIMUM EMBEDMENT | MINIMUM EDGE DISTANCE |
| 5/16" Ø ULTRACON               | DEWALT       | 2"                | 3 1/8"                | 5/16" Ø ULTRACON                                             | DEWALT       | 2 1/4"            | 2 1/2"                |
| 3/8" Ø KWIK BOLT 3             | HILTI        | 2 3/8"            | 2 3/8"                | 3/8" Ø KWIK BOLT 3                                           | HILTI        | 2 1/2"            | 4"                    |
| 3/8" Ø CONFLEX                 | ELCO         | 2 1/2"            | 3 3/4"                | 3/8" Ø LDT ANCHOR                                            | RED HEAD     | 1 1/2"            | 4"                    |
| 3/8" Ø POWERS WEDGE BOLT       | DEWALT       | 3"                | 4"                    | 3/8" Ø POWERS WEDGE BOLT                                     | DEWALT       | 3 1/4"            | 4"                    |
| 3/8" Ø LDT                     | RED HEAD     | 2 1/2"            | 2"                    | 3/8" Ø SCREW BOLT                                            | DEWALT       | 3 1/4"            | 4"                    |
| 3/8" Ø SCREW BOLT              | DEWALT       | 2 1/2"            | 4"                    | 3/8" Ø DYNABOLT SLEEVE                                       | RED HEAD     | 1 1/2"            | 4"                    |

**TO EXISTING WOOD FRAME BUILDING:** SPRUCE PINE -FIR-SOUTH (G-036). DOUGLAS-FIR-SOUTH (G=0.46) OR SOUTHERN PINE # 2 (G=0.55) MIN.  
-5/16" Ø ULTRACON ANCHORS, AS MANUFACTURED BY DEWALT.  
1)MINIMUM EMBEDMENT (E.D.)  
2 1/2" FOR 5/16" Ø ULTRACON ANCHORS.  
  
2)MINIMUM EDGE DISTANT (E.D.)  
2 1/4" FOR 5/16" Ø ULTRACON ANCHORS.

\* NOTES:

- a) NO EMBEDMENT INTO STUCCO SHALL BE CONSIDERED AS PART OF THE REQUIRED EMBEDMENT.  
b) 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) EDGE DISTANCE IS BEYOND ANY FINISH MATERIAL.
8. ANCHORS SHALL BE INSTALLED FOLLOWING ALL THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER.

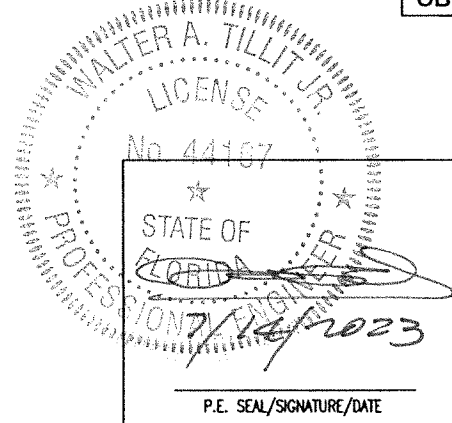
9. ANCHORS REQUIRED FOR MULLION CONNECTIONS TO CONCRETE SHALL BE AS SPECIFIED ON APPLICABLE SECTIONS SHOWN ON SHEETS 8, 9, 10 & 11.  
-S.S.KWIK BOLT 3 EXPANSION ANCHOR MANUFACTURED BY HILTI, INC.  
-CONFLEX SCREW ANCHOR MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS.  
-POWERS WEDGE BOLT AS MANUFACTURED BY DEWALT.

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

| ANCHOR                  | EDGE DISTANCE @ 100% | EMBEDMENT @ 100% CONCRETE | REQ'. MIN. THICKNESS FOR SUBSTRATE |
|-------------------------|----------------------|---------------------------|------------------------------------|
| 3/8"Ø KWIK BOLT 3       | 4 1/2"               | 2 3/8" (3000 PSI)         | 6"                                 |
| 3/8"Ø CONFLEX SCREW     | 4"                   | 2 5/8" (3000 PSI)         | 6"                                 |
| 3/8"Ø POWERS WEDGE BOLT | 4 1/2"               | 2 3/8" (3000 PSI)         | 7"                                 |
| 1/2"Ø KWIK BOLT 3       | 8"                   | 3 1/2" (3000 PSI)         | 8"                                 |
| 1/2"Ø CONFLEX           | 6"                   | 3 1/2" (3000 PSI)         | 6"                                 |
| 1/2"Ø POWERS WEDGE BOLT | 7"                   | 3 1/2" (3000 PSI)         | 6"                                 |
| 5/8"Ø KWIK BOLT 3       | 7"                   | 3 1/2" (3000 PSI)         | 6"                                 |
| 3/4"Ø KWIK BOLT 3       | 7 3/4"               | 5 1/2" (3000 PSI)         | 8"                                 |
| 3/4"Ø POWERS WEDGE BOLT | 7 3/4"               | 5 1/2" (3000 PSI)         | 8"                                 |
| 3/4"Ø CONFLEX SCREW     | 7 3/4"               | 5 1/2" (3000 PSI)         | 7"                                 |

10. 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.
11. 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.
12. THIS PRODUCT'S INSTALLATION SHALL COMPLY WITH ALL SPECS INDICATED IN THIS DRAWING PLUS ANY BUILDING AND ZONING REGULATIONS PROVIDED BY THE JURISDICTION.
13. LIFTING MECHANISM NOT PART OF THIS APPROVAL.
14. a) THIS P.E.D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT: ie. 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 CONTRACTORS' 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.
15. PRODUCT MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT PRODUCT IN ACCORDANCE WITH SECTION1709.9.3 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.

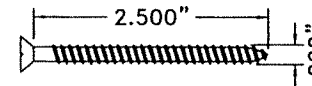
THIS DRAWING SHALL ONLY BE USED TO OBTAIN PERMITS IN THE STATE OF FLORIDA



| FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)                                                                                                                                                                                   |             |         |                                                                                                                           |             |                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|---------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| ©2023 TILTECO, INC.                                                                                                                                                                                                                        |             |         | 58 mm SLAT END RETENTION ALUMINUM ROLL-UP SHUTTER SYSTEM (L.M.I.)                                                         |             | Y.M. DRAWN BY:        |
| <b>TILTECO INC.</b><br>TILLIT TESTING & ENGINEERING COMPANY<br>8355 N.W. 36th St., Ste. 305, VIRGINIA CAROLINA, FL 33166<br>Phone : (305)871-1530 • Fax : (305)871-1531<br>CA-0006719<br>WALTER A. TILLIT Jr. P.E.<br>FLORIDA Lic. # 44167 |             |         | <b>FOLDING SHUTTER CORP.</b><br>1862 DR. MARTIN LUTHER KING BLVD.<br>WEST PALM BEACH, FL 33404<br>www.foldingshutters.com |             | 7/14/2023<br>DATE:    |
|                                                                                                                                                                                                                                            |             |         |                                                                                                                           |             | 23-107<br>DRAWING No. |
| REV. NO                                                                                                                                                                                                                                    | DESCRIPTION | DATE    | REV. No                                                                                                                   | DESCRIPTION | DATE                  |
| 1                                                                                                                                                                                                                                          | OLD 22-013  | 7/14/23 | 3                                                                                                                         | -           | -                     |
| 2                                                                                                                                                                                                                                          | -           | -       | 4                                                                                                                         | -           | -                     |
|                                                                                                                                                                                                                                            |             |         |                                                                                                                           |             | SHEET 1 OF 21         |

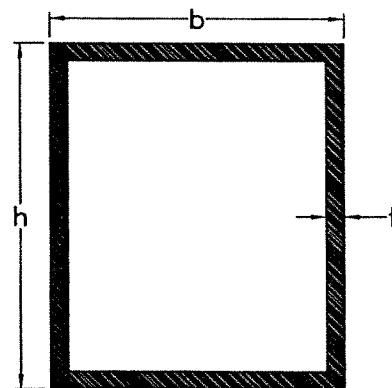
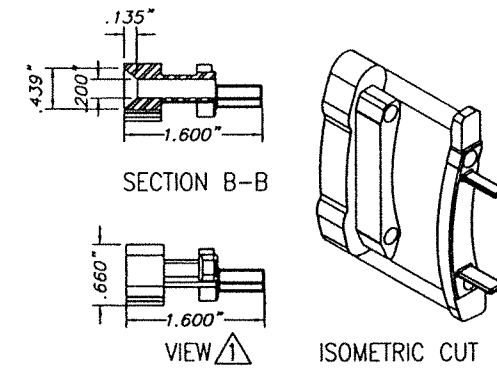
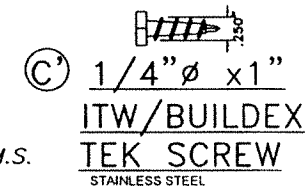
58mm EXTRUDED ALUMINUM SLAT  
6063-T6 ALUMINUM ALLOY

6063-T6 ALUMINUM ALLOY

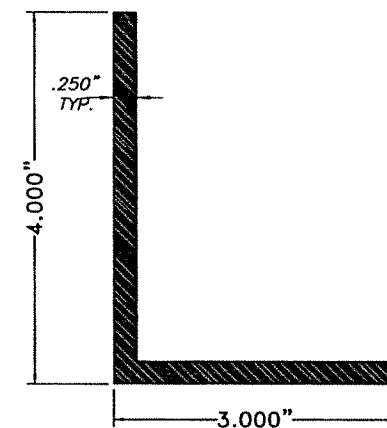


③ END RETENTION SCREW

#10-12 x 2 1/2" AISI 1022 CARBON STEEL S.M.S.  
Ftu = 200 ksi  
SCREW SHALL BE COATED WITH XYLAN 5000  
SERIES FLUOROPOLYMER COATING, AS  
MANUFACTURED BY WHITFORD Co. BOX 507 WEST  
CHESTER PA. 19381 COATING

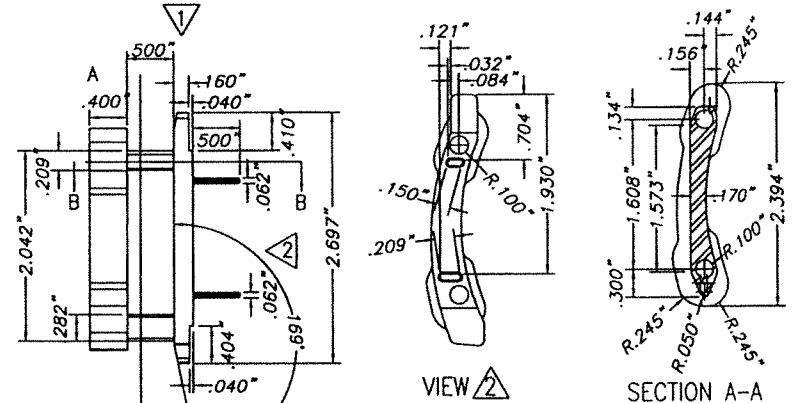
MULLIONS

| MULLIONS | b  | h  | t      | ALLOY   |
|----------|----|----|--------|---------|
| (E)      | 3" | 4" | 0.125" | 6063-T6 |
| (F)      | 4" | 4" | 0.125" | 6063-T6 |
| (G)      | 4" | 4" | 0.25"  | 6061-T6 |
| (H)      | 4" | 6" | 0.25"  | 6061-T6 |
| (I)      | 4" | 8" | 0.25"  | 6061-T6 |



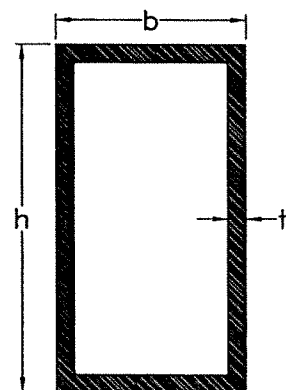
(J) TRAPPED ANGLE

6063-T6 ALUMINUM ALLOY



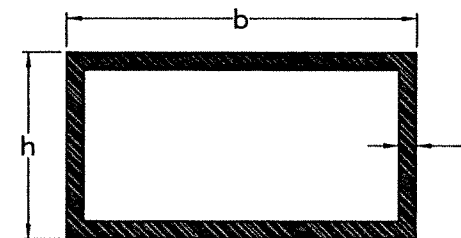
(D) SLAT LOCK GUIDE @ EVERY OTHER SLAT

CELCON ACETAL COPOLYMER



### INSIDE MOUNTED TUBES

| TUBE | b  | h  | t      | ALLOY   |
|------|----|----|--------|---------|
| (K)  | 2" | 3" | 0.125" | 6063-T6 |
| (L)  | 3" | 3" | 0.125" | 6063-T6 |
| (M)  | 2" | 4" | 0.25"  | 6061-T6 |
| (N)  | 3" | 4" | 0.125" | 6063-T6 |
| (O)  | 4" | 4" | 0.125" | 6063-T6 |
| (O1) | 4" | 4" | 0.25"  | 6061-T6 |

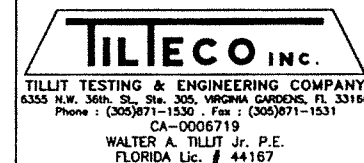


### BUILD OUT MOUNTED TUBES

| TUBE | b  | h  | t      | ALLOY   |
|------|----|----|--------|---------|
| Ⓐ    | 4" | 2" | 0.25"  | 6061-T6 |
| Ⓑ    | 4" | 3" | 0.125" | 6063-T6 |
| Ⓒ    | 4" | 4" | 0.125" | 6063-T6 |
| Ⓓ    | 3" | 2" | 0.25"  | 6061-T6 |
| Ⓔ    | 3" | 3" | 0.125" | 6063-T6 |
| Ⓕ    | 3" | 2" | 0.125" | 6063-T6 |
| Ⓖ    | 3" | 1" | 0.125" | 6063-T6 |

## FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)

©2023 TILTECO, INC.

58 mm SLAT END RETENTION ALUMINUM  
ROLL-UP SHUTTER SYSTEM (L.M.I.)

**FOLDING SHUTTER CORP.**  
1862 DR. MARTIN LUTHER KING BLVD.  
WEST PALM BEACH, FL 33404  
[www.foldingshutters.com](http://www.foldingshutters.com)

Y.M.  
DRAWN BY:

DATE: /14/2023

3-107

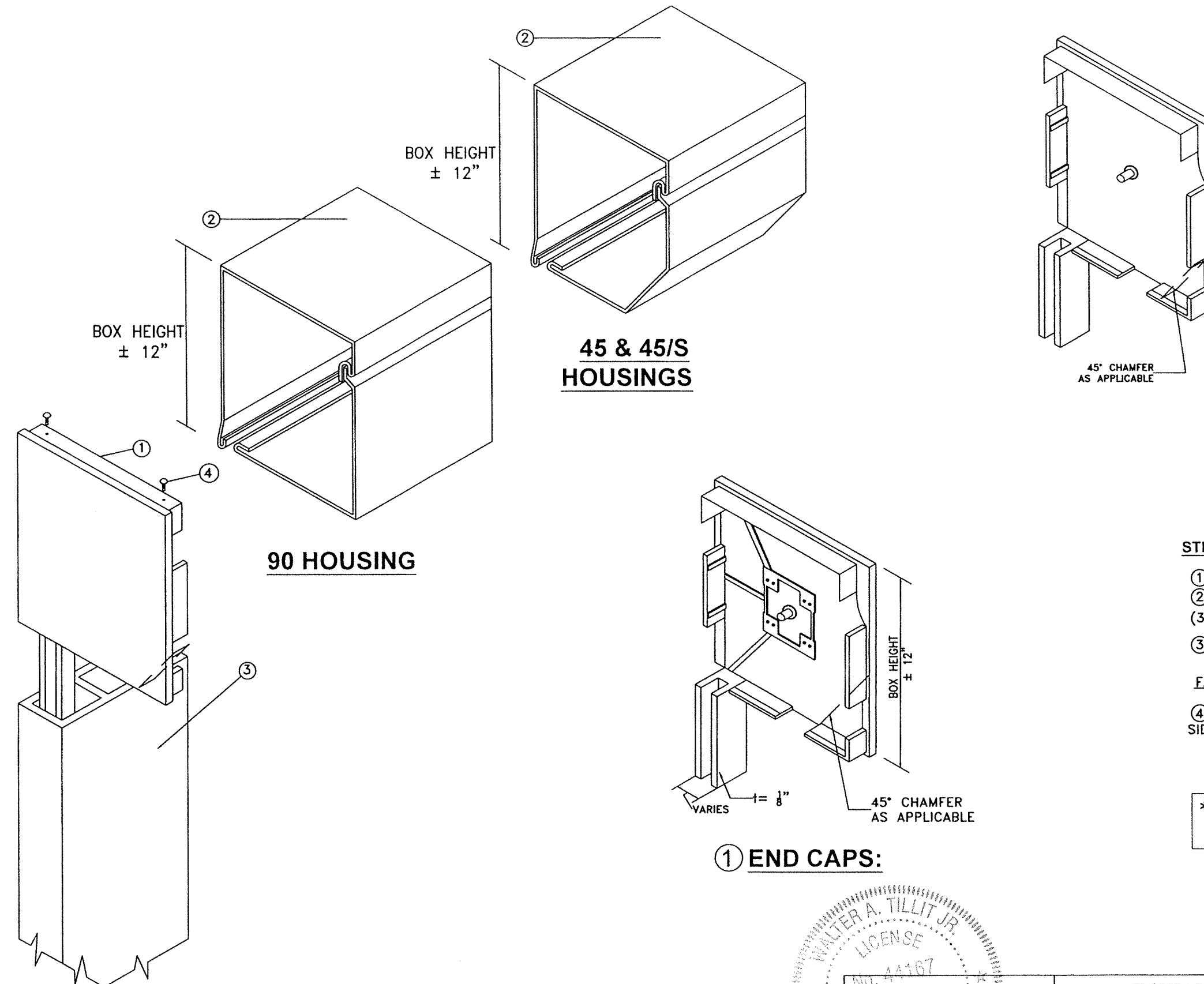
PAGE 2 OF 21

| REV. NO | DESCRIPTION | DATE    | REV. No | DESCRIPTION | DATE |
|---------|-------------|---------|---------|-------------|------|
| 1       | OLD 22-013  | 7/14/23 | 3       | -           | -    |
| 2       | -           | -       | 4       | -           | -    |

# COMPONENTS

SCALE:  $1/2" = 1"$

P.E. SEAL/SIGNATURE/DATE



**BOX STRUCTURAL COMPONENTS AND ASSEMBLY DETAIL**

**STRUCTURAL COMPONENTS FOR OPERATING SYSTEM**

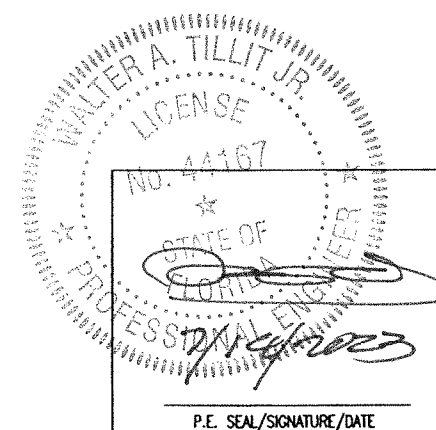
- ① – SIDE/END CAP (CAST ALUMINUM) \*
- ② – HOUSING, 0.040" THICK SHEET METAL (3105-H14 OR STRONGER)
- ③ – SIDE RAIL

**FASTENERS**

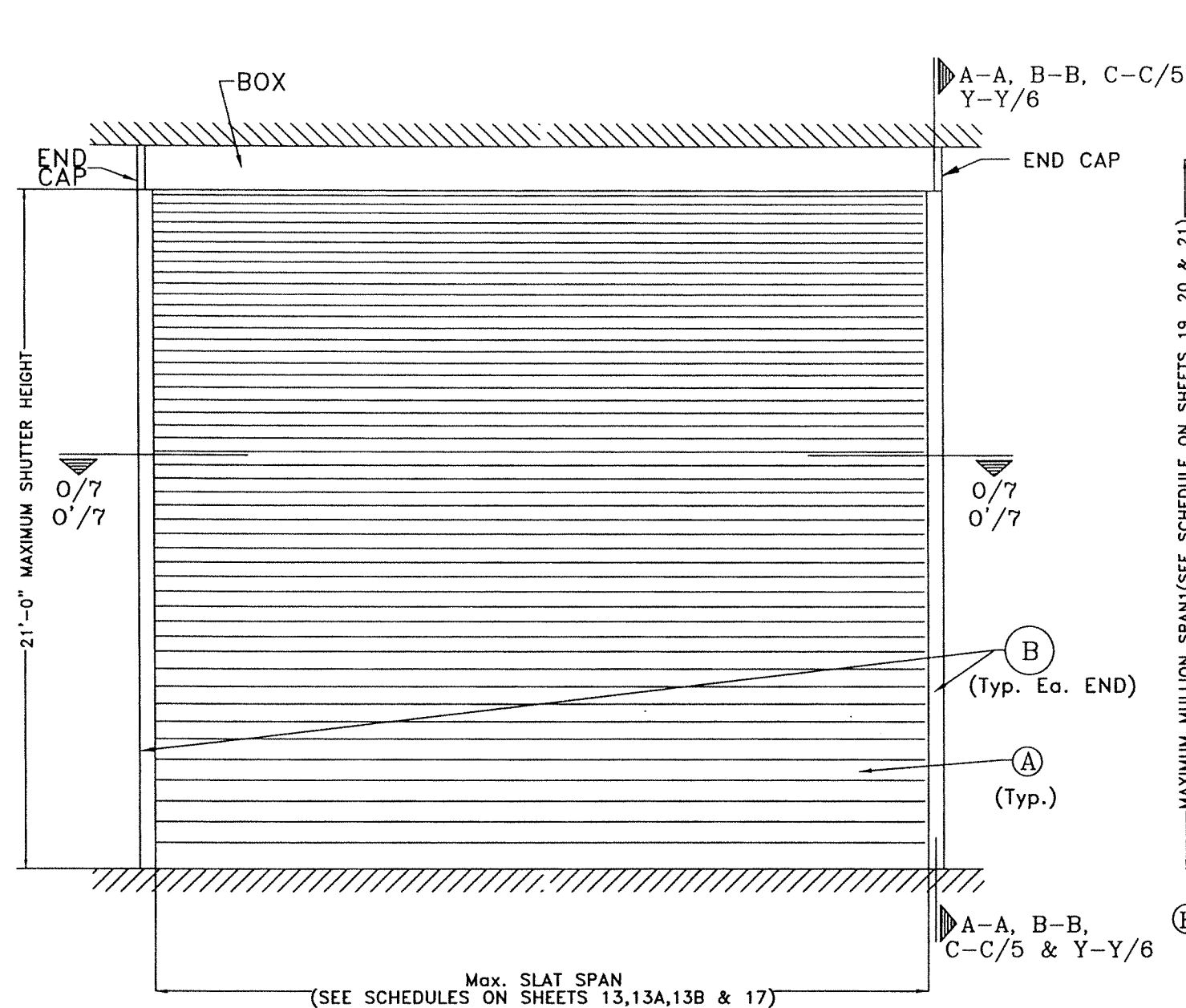
- ④ – 3/16" ALUMINUM POP RIVETS (6 REQ'D EA. SIDE CAP) : 2 @ TOP, 2 @ REAR, 2 @ BOTTOM

\* SHALL BE CAPABLE TO SUSTAIN SLAT'S WEIGHT AND ASSURE LIFTING MECHANISM (SEE NOTE 13/1)

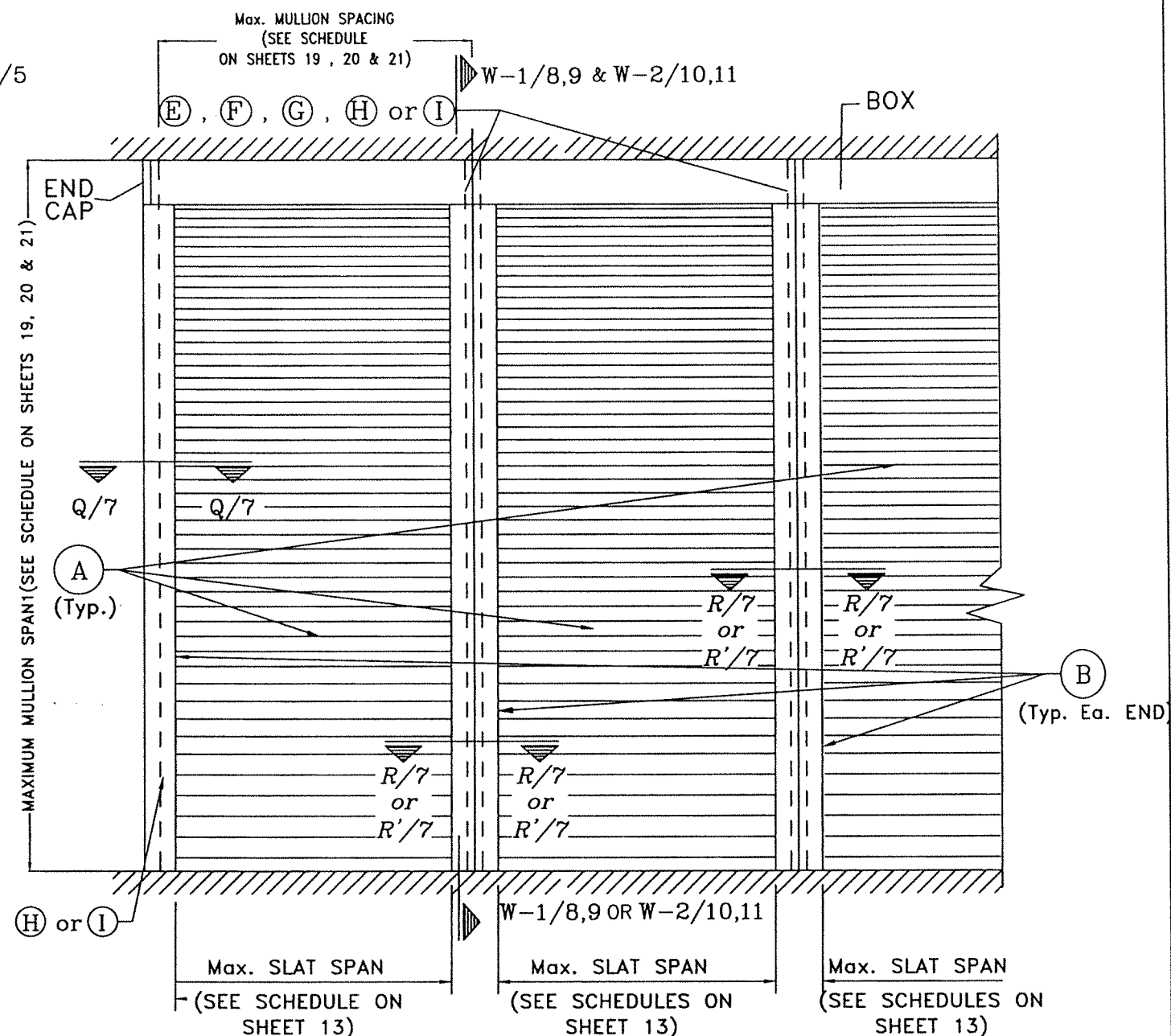
**① END CAPS:**



| FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)                                                                                                                                                            |             |         |                                                                                           |             |                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|-------------------------------------------------------------------------------------------|-------------|--------------------|
| ©2023 TILTECO, INC.                                                                                                                                                                                                 |             |         | 58 mm SLAT END RETENTION ALUMINUM ROLL-UP SHUTTER SYSTEM (L.M.I.)                         |             | Y.M.               |
| TILTECO INC.                                                                                                                                                                                                        |             |         | FOLDING SHUTTER CORP.                                                                     |             | DRAWN BY:          |
| TILLIT TESTING & ENGINEERING COMPANY<br>6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166<br>Phone : (305)871-1530 • Fax : (305)871-1531<br>CA-0006719<br>WALTER A. TILLIT JR., P.E.<br>FLORIDA Lic. # 44167 |             |         | 1862 DR. MARTIN LUTHER KING BLVD.<br>WEST PALM BEACH, FL 33404<br>www.foldingshutters.com |             | 7/14/2023<br>DATE: |
| REV. NO                                                                                                                                                                                                             | DESCRIPTION | DATE    | REV. No                                                                                   | DESCRIPTION | DATE               |
| 1                                                                                                                                                                                                                   | OLD 22-013  | 7/14/23 | 3                                                                                         | -           | -                  |
| 2                                                                                                                                                                                                                   | -           | -       | 4                                                                                         | -           | -                  |
| DRAWING No.                                                                                                                                                                                                         |             |         |                                                                                           |             | 23-107             |
| SHEET 3 OF 21                                                                                                                                                                                                       |             |         |                                                                                           |             |                    |



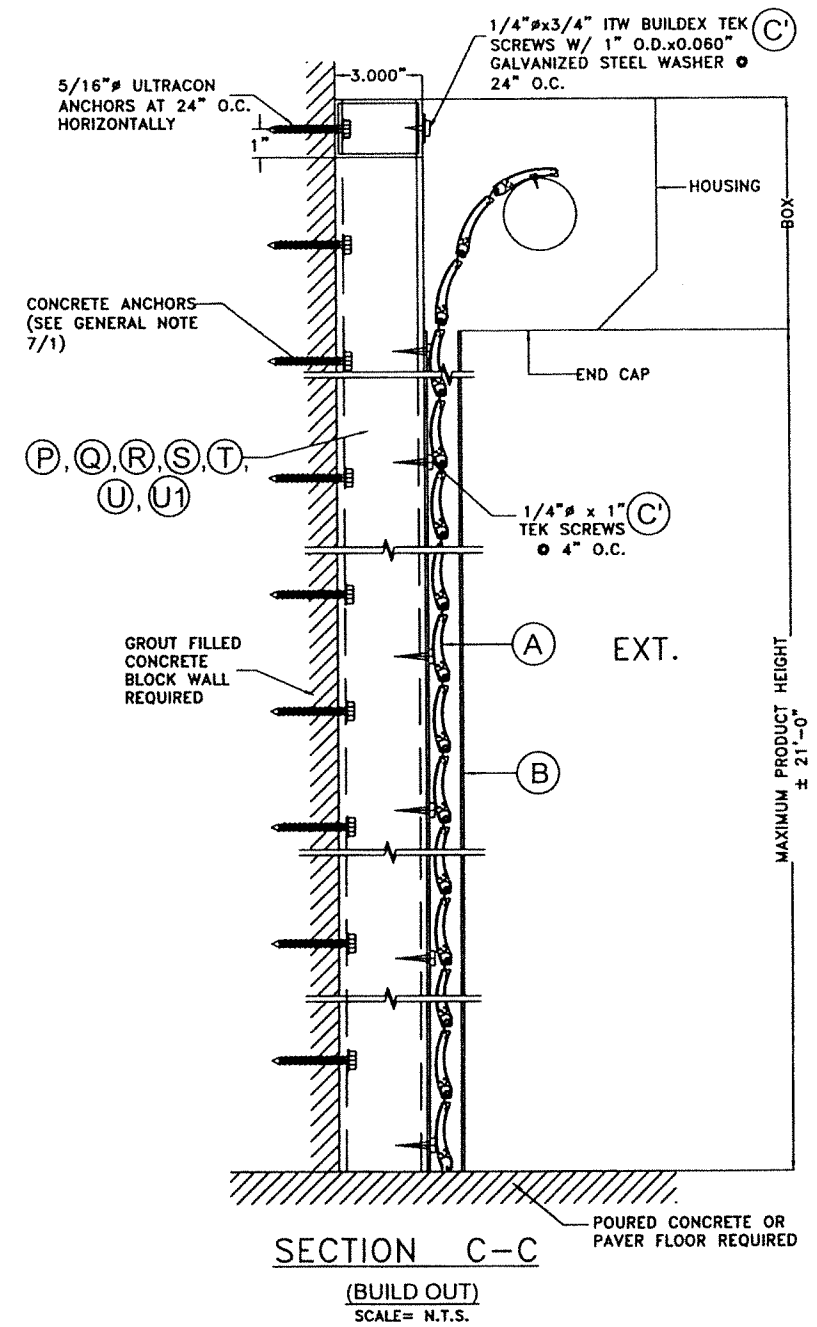
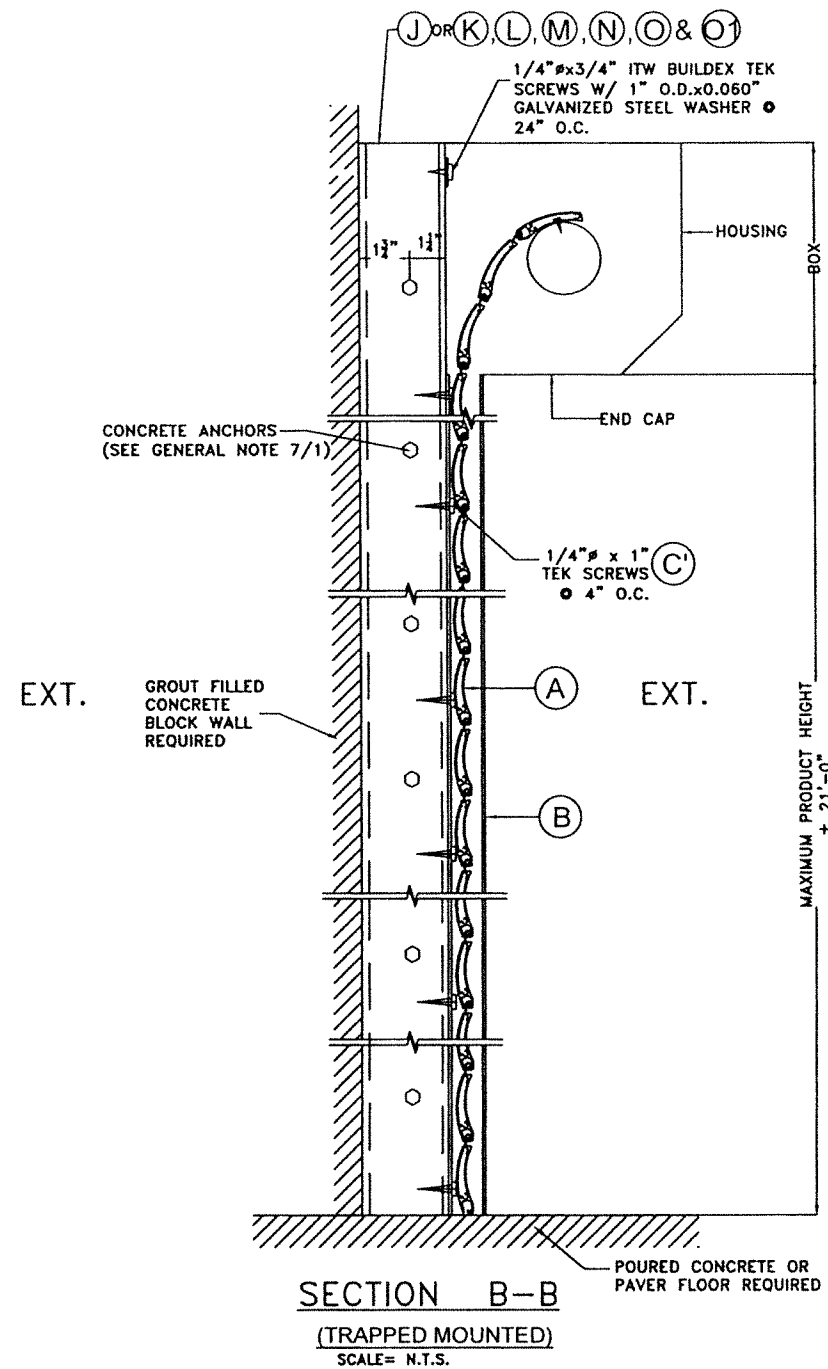
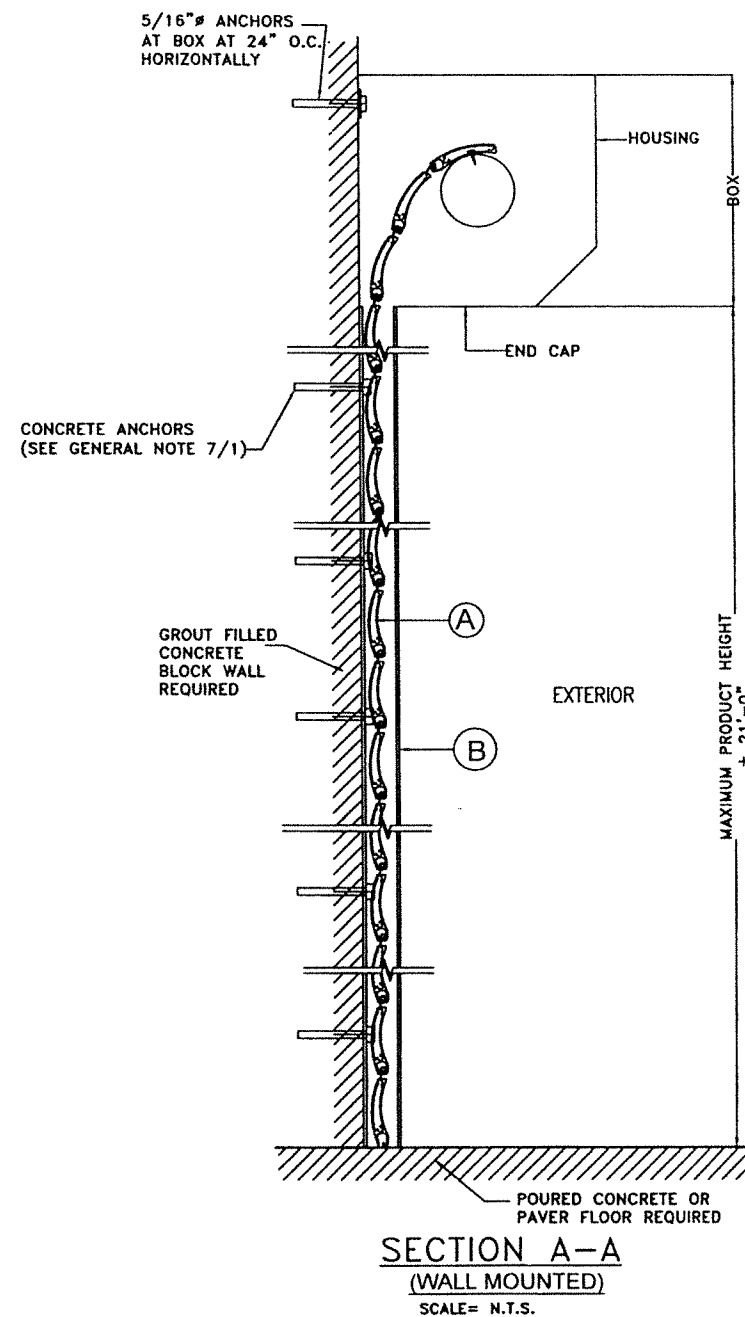
**TYPICAL SINGLE UNIT ELEVATION**  
**(CONCRETE, GROUTED BLOCK OR WOOD)**  
 NOTE: SEE SHEETS 2 & 3 FOR COMPONENTS NOMENCLATURE.  
 N.T.S.



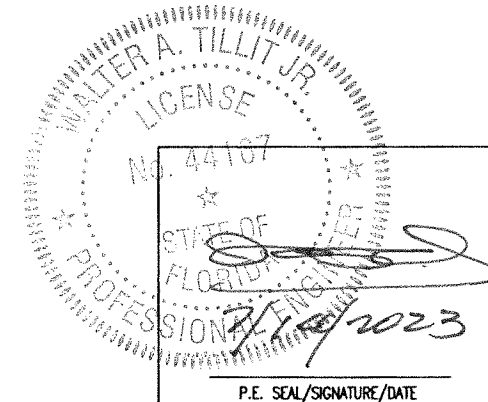
**TYPICAL CONSECUTIVE SINGLE UNIT ELEVATION**  
**W/ MULLION INTO POURED CONCRETE**  
 NOTE: SEE SHEETS 2 & 3 FOR COMPONENTS NOMENCLATURE.  
 N.T.S.

WALTER A. TILLIT JR.  
 LICENSE  
 No. 44167  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 7/14/2023  
 P.E. SEAL/SIGNATURE/DATE

| FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)                                                                                                                                                                                                         |             |         |                                                                                                                                                                                                   |             |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------|
| ©2023 TILTECO, INC.<br><b>TILTECO INC.</b><br>TILLIT TESTING & ENGINEERING COMPANY<br>6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166<br>Phone : (305)871-1530 • Fax : (305)871-1531<br>CA-0006719<br>WALTER A. TILLIT Jr. P.E.<br>FLORIDA Lic. # 44167 |             |         | 58 mm SLAT END RETENTION ALUMINUM<br>ROLL-UP SHUTTER SYSTEM (L.M.I.)<br><b>FOLDING SHUTTER CORP.</b><br>1862 DR. MARTIN LUTHER KING BLVD.<br>WEST PALM BEACH, FL 33404<br>www.foldingshutters.com |             |      |
| REV. NO                                                                                                                                                                                                                                                          | DESCRIPTION | DATE    | REV. No                                                                                                                                                                                           | DESCRIPTION | DATE |
| 1                                                                                                                                                                                                                                                                | OLD 22-013  | 7/14/23 | 3                                                                                                                                                                                                 | -           | -    |
| 2                                                                                                                                                                                                                                                                | -           | -       | 4                                                                                                                                                                                                 | -           | -    |
|                                                                                                                                                                                                                                                                  |             |         | Y.M.<br>DRAWN BY:<br>7/14/2023<br>DATE:<br>23-107<br>DRAWING No.<br>SHEET 4 OF 21                                                                                                                 |             |      |

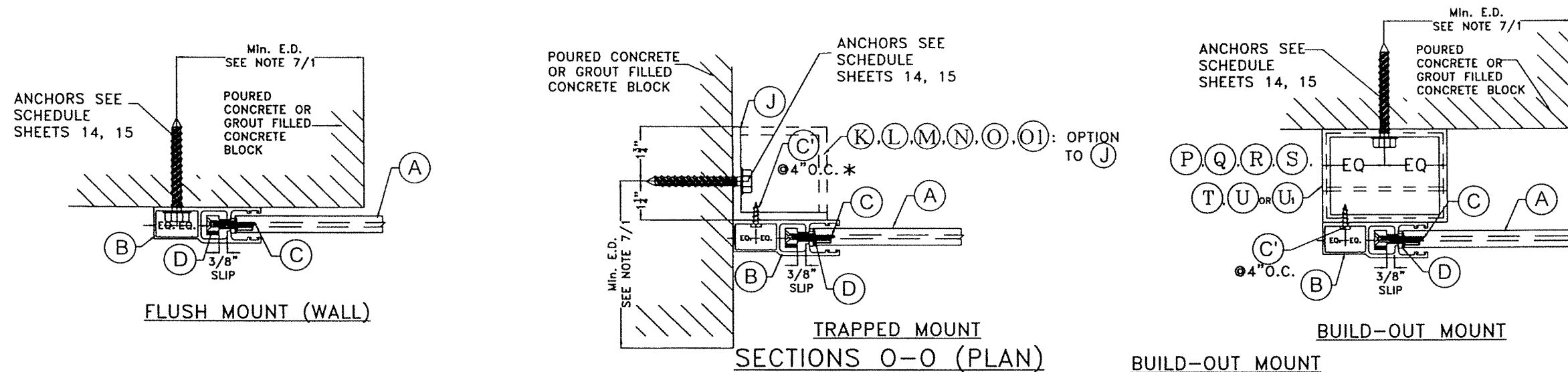


# INSTALLATION DETAILS ON EXISTING POURED CONCRETE OR GROUT FILLED CONCRETE BLOCK WALL BUILDINGS

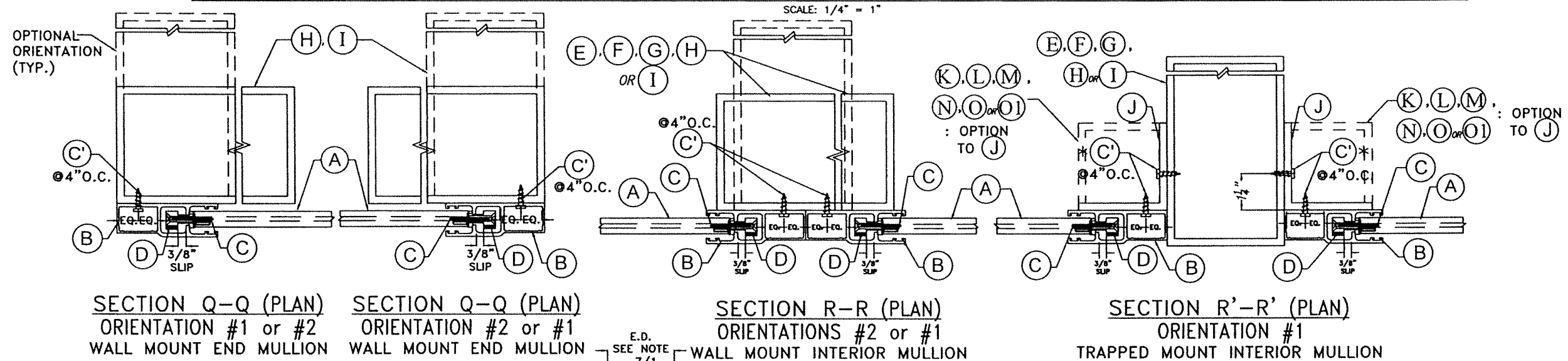


| FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)                                                                                                                                                                                                                                                   |            |         |                                                                                                                                                              |             |                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------|
| ©2023 TILTECO, INC.                                                                                                                                                                                                                                                                                        |            |         | 58 mm SLAT END RETENTION ALUMINUM ROLL-UP SHUTTER SYSTEM (L.M.I.)                                                                                            |             |                                                                                   |
| <b>TILTECO INC.</b><br><small>TILLIT TESTING &amp; ENGINEERING COMPANY<br/>         8355 N.W. 36th St., Ste. 302, Virginia Gardens, FL 33166<br/>         Phone: (305)871-1530 Fax: (305)871-1531<br/>         CA-0006719<br/>         WALTER A. TILLIT Jr. P.E.<br/>         FLORIDA Lic. # 44167</small> |            |         | <b>FOLDING SHUTTER CORP.</b><br><small>1862 DR. MARTIN LUTHER KING BLVD.<br/>         WEST PALM BEACH, FL 33404<br/>         www.foldingshutters.com</small> |             |                                                                                   |
|                                                                                                                                                                                                                                                                                                            |            |         | REV. NO                                                                                                                                                      | DESCRIPTION | DATE                                                                              |
| 1                                                                                                                                                                                                                                                                                                          | OLD 22-013 | 7/14/23 | 3                                                                                                                                                            | --          | --                                                                                |
| 2                                                                                                                                                                                                                                                                                                          | --         | --      | 4                                                                                                                                                            | --          | --                                                                                |
|                                                                                                                                                                                                                                                                                                            |            |         |                                                                                                                                                              |             | Y.M.<br>DRAWN BY:<br>7/14/2023<br>DATE:<br>23-107<br>DRAWING No.<br>SHEET 5 OF 21 |



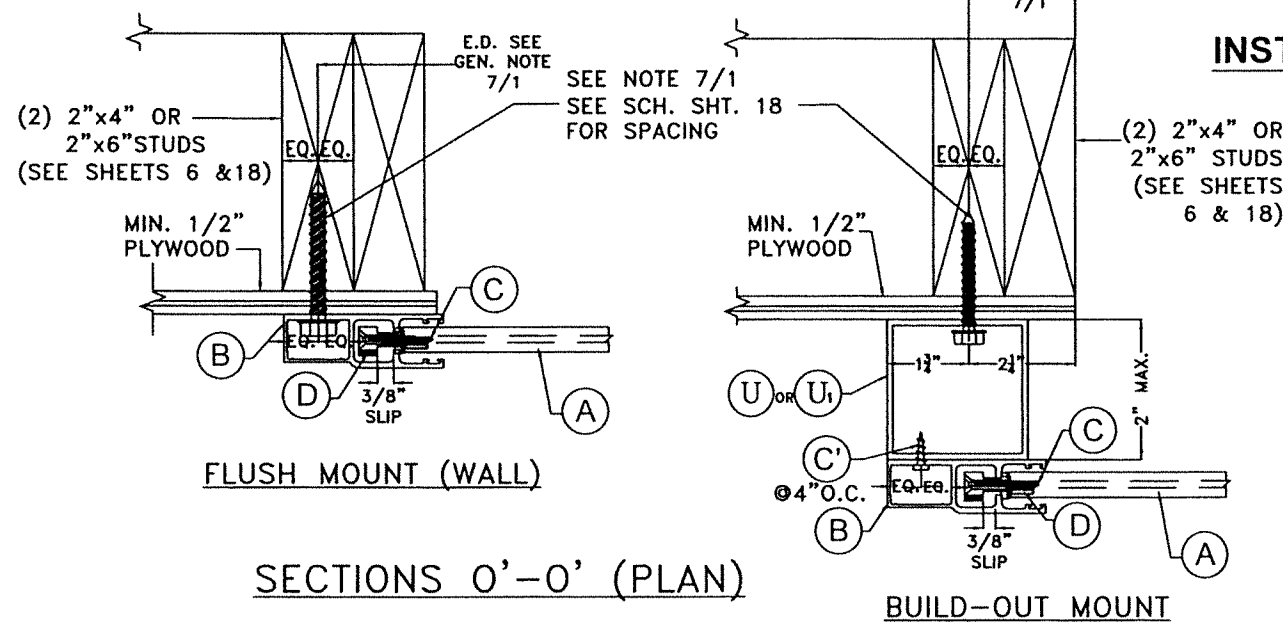


# INSTALLATION DETAILS INTO EXISTING POURED CONCRETE OR GROUT FILLED CONCRETE BLOCK BUILDINGS



## INSTALLATION DETAILS INTO MULLIONS (F), (G), (H) or (I)

SCALE: N.T.S.

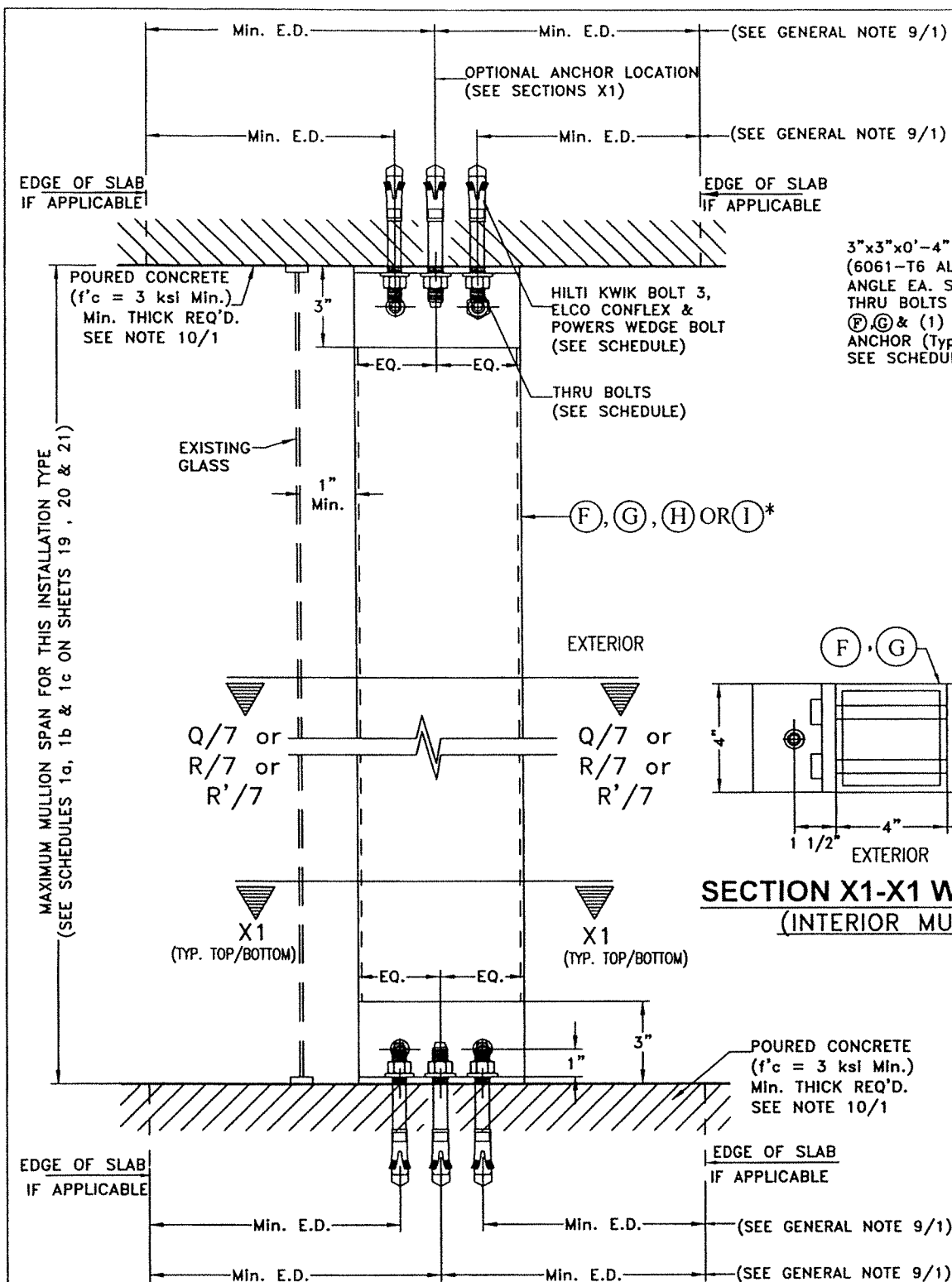


## INSTALLATION DETAILS INTO EXISTING WOOD BUILDINGS

\* ALTERNATIVELY TO (C) A 1/4"Ø-20x1" S.S. M.S. W/NUT MAY BE USED FOR THIS CONNECTION

WALTER A. TILLIT JR.  
LICENSE  
No. 44167  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
7/14/2023  
P.E. SEAL/SIGNATURE/DATE

| FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)                                                                                                                                                      |             |         |                                                                                           |             |                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|-------------------------------------------------------------------------------------------|-------------|--------------------|
| ©2023 TILTECO, INC.                                                                                                                                                                                           |             |         | 58 mm SLAT END RETENTION ALUMINUM ROLL-UP SHUTTER SYSTEM (L.M.I.)                         |             | Y.M. DRAWN BY:     |
| TILTECO INC.                                                                                                                                                                                                  |             |         | FOLDING SHUTTER CORP.                                                                     |             | 7/14/2023 DATE:    |
| TILLIT TESTING & ENGINEERING COMPANY<br>6355 N.W. 36th St., Ste. 305, VIRIDIA GARDENS, FL 33166<br>Phone: (305)871-1530 Fax: (305)871-1531<br>CA-0006719<br>WALTER A. TILLIT Jr. P.E.<br>FLORIDA Lic. # 44167 |             |         | 1862 DR. MARTIN LUTHER KING BLVD.<br>WEST PALM BEACH, FL 33404<br>www.foldingshutters.com |             | 23-107 DRAWING No. |
| REV. NO                                                                                                                                                                                                       | DESCRIPTION | DATE    | REV. No                                                                                   | DESCRIPTION | DATE               |
| 1                                                                                                                                                                                                             | OLD 22-013  | 7/14/23 | 3                                                                                         | -           | -                  |
| 2                                                                                                                                                                                                             | -           | -       | 4                                                                                         | -           | -                  |



**SECTIONS W-1**  
FLOOR TO CEILING / TRAPPED MOUNTING MULLIONS

## END & INTERIOR TRAPPED MOUNTED MULLION INSTALLATION

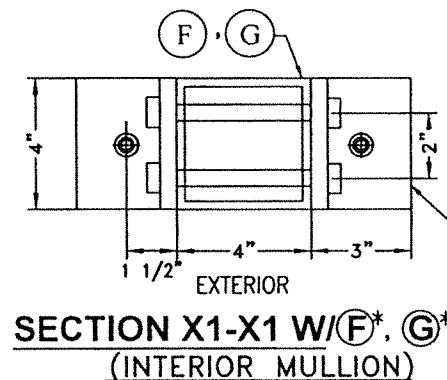
(TO BE USED W/ SCHEDULES 1a, 1b & 1c ON SHEETS 19, 20 & 21)

SCALE: 1/8" = 1"

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

3"x3"x0'-4" (6061-T6 ALLOY) Alum. ANGLE EA. SIDE W/ (2) THRU BOLTS TO MULLIONS (F) & (1) CONCRETE ANCHOR (Typ. TOP & BOTTOM) SEE SCHEDULE.

**SECTION X1-X1 W/ (F)\* OR (G)\***  
(INTERIOR MULLION)



3"x3"x0'-4" (6061-T6 ALLOY) Alum. ANGLE EA. SIDE W/ (2) THRU BOLTS TO MULLION (I) & (1) ANCHOR TO POURED CONCRETE (Typ. TOP & BOTTOM) SEE SCHEDULE.

**SECTION X1-X1 W/ (I)\***  
(END & INTERIOR MULLION)  
(W/ ORIENTATION # 1)

3"x3"x0'-4" (6061-T6 ALLOY) Alum. ANGLE EA. SIDE W/ (2) THRU BOLTS TO MULLION (H) & (1) ANCHOR W/ Min. EMBED. TO POURED CONCRETE (Typ. TOP & BOTTOM) SEE SCHEDULE.

**SECTION X1-X1 W/ (H)\***  
(END & INTERIOR MULLION)  
(W/ ORIENTATION # 1)

3"x3"x0'-6" (6061-T6 ALLOY) Alum. ANGLE EA. SIDE W/ (2) THRU BOLTS TO MULLION (H) & (1) ANCHOR TO POURED CONCRETE (Typ. TOP & BOTTOM). SEE SCHEDULE.

**ALTERNATIVE SECTION X1-X1 W/ (H)\***  
(END & INTERIOR MULLION)  
(W/ ORIENTATION # 2)

3"x3"x0'-8" (6061-T6 ALLOY) Alum. ANGLE EA. SIDE W/ (2) THRU BOLTS TO MULLION (I) & (1) ANCHOR TO POURED CONCRETE (Typ. TOP & BOTTOM). SEE SCHEDULE.

**ALTERNATIVES SECTION X1-X1 W/ (I)\***  
(INTERIOR MULLION ONLY) (END MULLION ONLY)  
(W/ ORIENTATION # 2)

3"x3"x0'-8" (6061-T6 ALLOY) Alum. ANGLE EA. SIDE W/ (2) THRU BOLTS TO MULLION (I) & (2) ANCHORS TO POURED CONCRETE (Typ. TOP & BOTTOM). SEE SCHEDULE.

NOTE: VALID FOR ALL MAX. LOADS & MAX. SPANS EXCEPT SPECIAL LOW LOAD AND REDUCED SPAN CONDITIONS PER SHEET 9

## MULLION CONNECTION SCHEDULE

| MULLION TYPE | REQ'D. ALUMINUM ANGLE THICKNESS | REQ'D. THRU BOLT | REQ'D. CONCRETE ANCHORS & EMBEDMENT | MIN. E.D. |
|--------------|---------------------------------|------------------|-------------------------------------|-----------|
| (H) (I)      | 3/8"                            | 5/8"             | 3/4" & 5 1/2" EMBED.                | 7 3/4"    |
| (F) (G)      | 1/4"                            | 1/2"             | 1/2" & 3 1/2" EMBED.                | 6"        |

## FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)

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

58 mm SLAT END RETENTION ALUMINUM ROLL-UP SHUTTER SYSTEM (L.M.I.)

**FOLDING SHUTTER CORP.**  
1862 DR. MARTIN LUTHER KING BLVD.  
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Y.M.

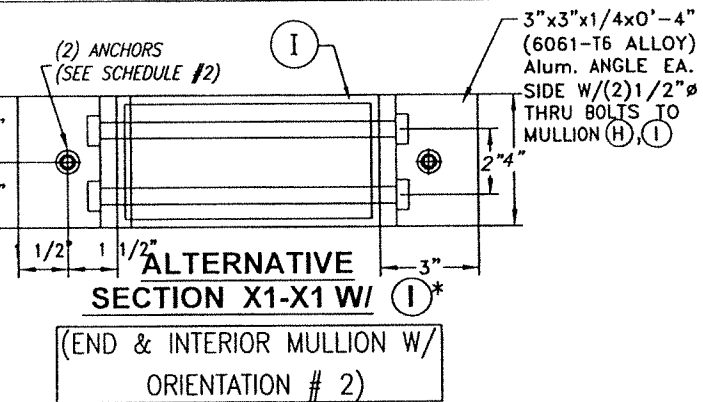
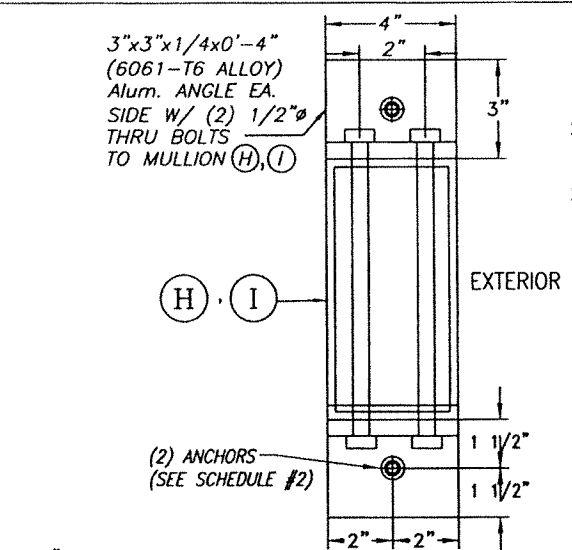
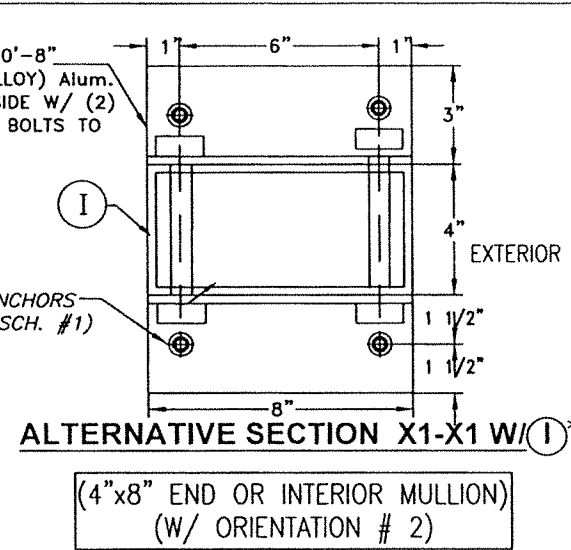
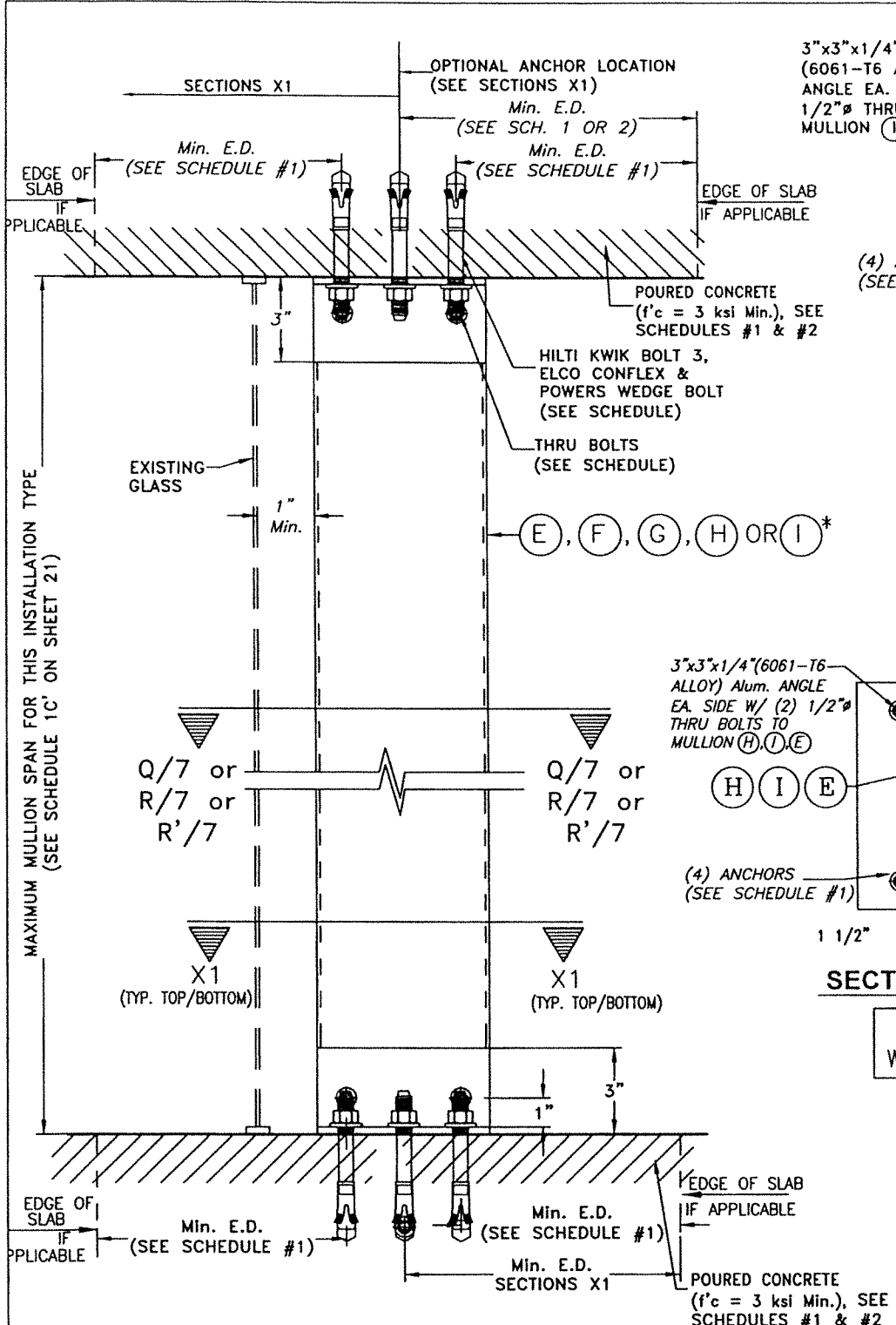
DRAWN BY:

7/14/2023  
DATE:

23-107.

DRAWING No.

SHEET 8 OF 21



$\diamond$  SEE MAXIMUM (INTERIOR) & (END & INTERIOR) TRAPPED MOUNTED MULLIONS SPAN COVERED BY SCHEDULE 1b' FOR INSTALLATION CASES I, Ia & II ON SHEET 21. (LIMITED LOAD, MULLION SPACING AND SPAN INSTALLATION):

INSTALLATION CASE I - RESIDENTIAL AND COMMERCIAL APPLICATIONS WITH  $\pm 60.0$  p.s.f. MAXIMUM A.S.D. DESIGN PRESSURE RATING, 12'-0" MAXIMUM MULLION SPACING. SEE SCHEDULES #1 & #2 BELOW FOR ADDITIONAL SPECS. FOR REQUIRED ANCHORS.

INSTALLATION CASE Ia - RESIDENTIAL AND COMMERCIAL APPLICATION W/  $\pm 60.0$  p.s.f. MAXIMUM A.S.D. DESIGN PRESSURE RATING, 7'-0" MAXIMUM MULLION SPACING. SEE SCHEDULES #1 & #2 BELOW FOR ADDITIONAL SPECS. FOR REQUIRED ANCHORS.

| SCHEDULE #1                   |                            |                                                                                                                                         |                       |                               |
|-------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------|
| INSTALLATION CASES $\diamond$ | MIN. SLAB THICKNESS REQ'D. | ANCHOR TYPE & SIZE (TYP. TOP & BOTTOM)                                                                                                  | MIN. ANCHOR EMBEDMENT | MIN. EDGE DISTANCE FOR ANCHOR |
| I                             | 4"                         | 3/8" HILTI KWIK BOLT 3 & 3/8" ELCO CONFLX OR 3/8" POWER WEDGE BOLT FOR (H, I, E) (INTERIOR) MULLIONS W/ ORIENTATION #1 & ORIENTATION #2 | 2 3/8"                | 4 1/2"                        |
| Ia                            | 8"                         | 1/2" HILTI KWIK BOLT 3 FOR (H, I) (END) MULLIONS W/ ORIENTATION #1 & ORIENTATION #2                                                     | 3 1/2"                | 7"                            |
|                               | 6"                         | 1/2" CONFLX OR 1/2" POWER WEDGE BOLT FOR (H) & (I) (END) MULLIONS W/ ORIENTATION #1 & ORIENTATION #2                                    | 3 1/2"                | 6"                            |
| II                            | 6"                         | 1/2" HILTI KWIK BOLT 3 FOR (H) & (I) (END) OR (INTERIOR) MULLIONS W/ ORIENTATION #1 OR ORIENTATION #2                                   | 3 1/2"                | 7"                            |
|                               |                            | 1/2" CONFLX SCREW FOR (H) & (I) (END) OR (INTERIOR) MULLIONS W/ ORIENTATION #1 OR ORIENTATION #2                                        | 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             | 4"                         | 5/8" KWIK BOLT 3 OR 5/8" CONFLX SCREW  | 2 1/2"                | 7 1/2"                        |

SECTION X1-X1 W/ (F)\* & (G)\*  
(INTERIOR MULLION)  
(4" x 4")

3" x 3" x 1/4" x 0'-4" (6061-T6 ALLOY) Alum. ANGLE EA. SIDE W/ (2) 1/2" THRU BOLTS TO MULLION (F, G)  
(2) ANCHORS (SEE SCH. #1)

EXTERIOR

1 1/2" 1 1/2" 4" 3"

7/14/2023

P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)

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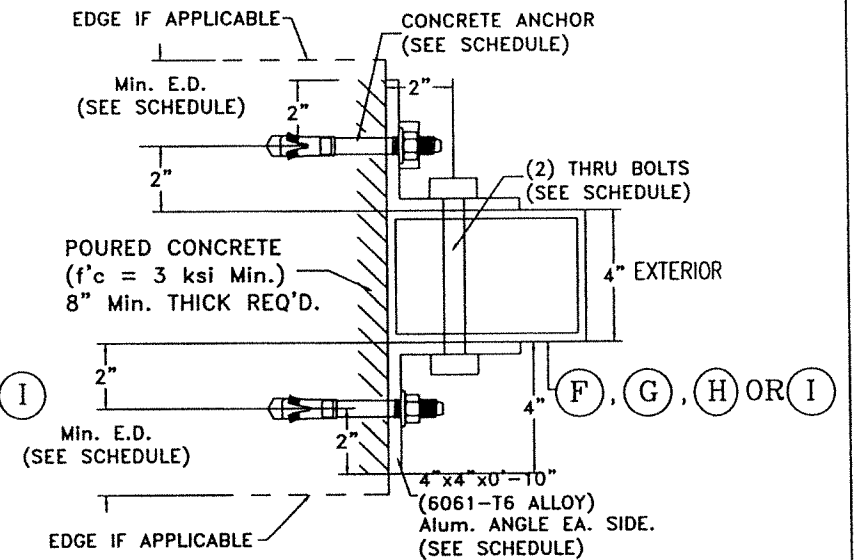
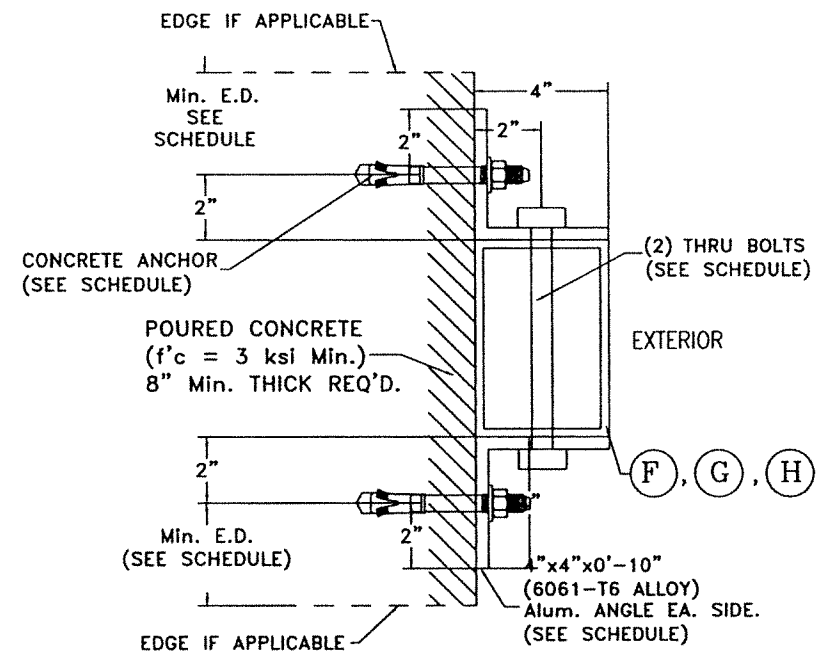
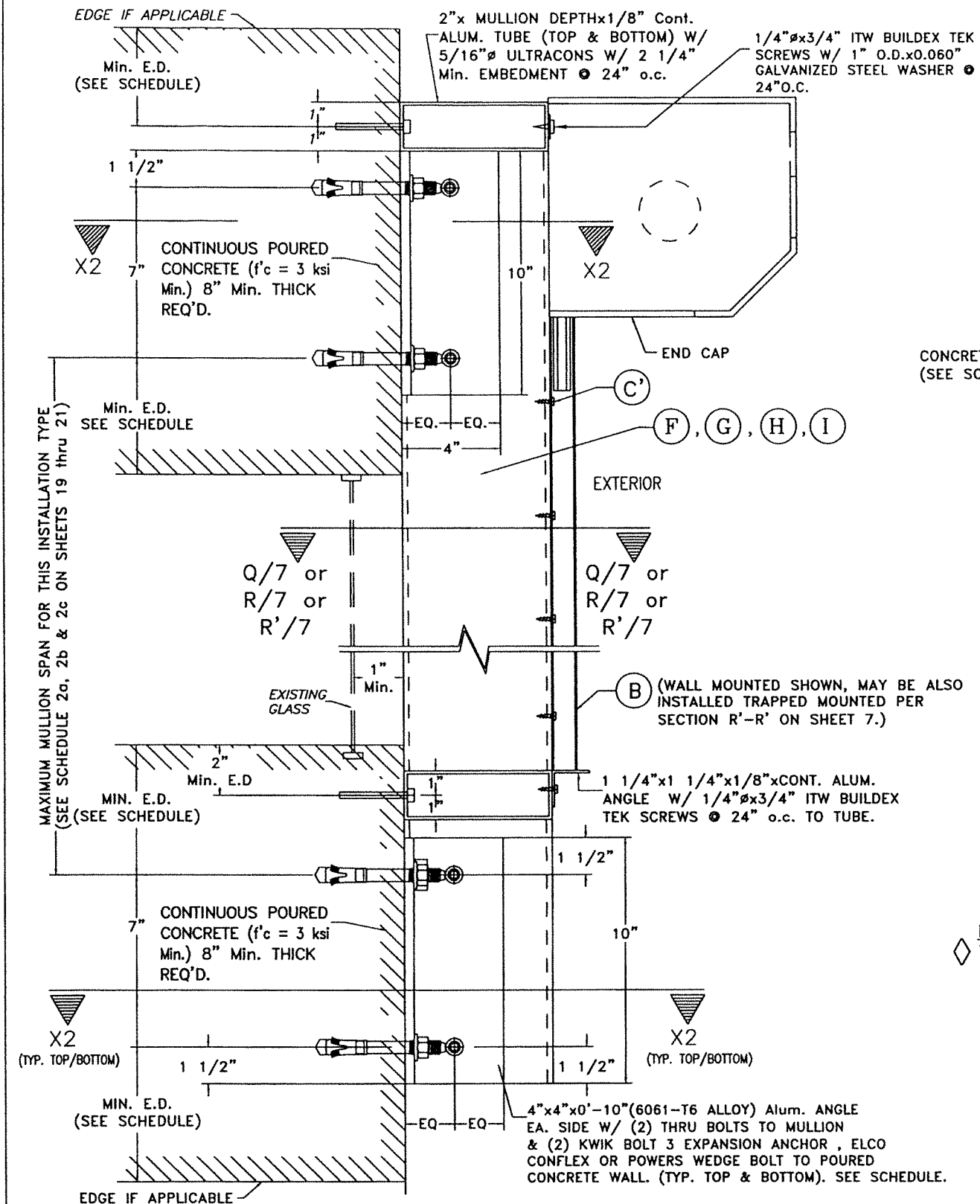
**TILTECO INC.**

TILLIT TESTING & ENGINEERING COMPANY  
6355 N.W. 36th St., Ste. 305, VIRGINIA BEACH, FL 33166  
Phone: (305) 671-1530 • Fax: (305) 671-1531  
CA-0006719  
WALTER A. TILLIT Jr. P.E.  
FLORIDA Lic. # 44167

58 mm SLAT END RETENTION ALUMINUM ROLL-UP SHUTTER SYSTEM (L.M.I.)

Y.M. DRAWN BY:  
7/14/2023 DATE:  
23-107 DRAWING No.  
SHEET 9 OF 21

REV. NO. DESCRIPTION DATE REV. NO. DESCRIPTION DATE  
1 OLD 22-013 7/14/23 3 - -  
2 - - 4 - -



**SECTION X2-X2 W/ (F),(G),(H) OR (I)**

(END & INTERIOR MULLION (H), (I) or  
INTERIOR MULLION (F), (G)  
(W/ ORIENTATION # 2)  
(6"x4" , 8"x4" or 4"x4")

**ALTERNATIVE SECTION X2-X2 W/ (F), (G), (H) OR (I)**

(END & INTERIOR MULLION (H), (I) or  
INTERIOR MULLION (F), (G)  
(W/ ORIENTATION # 1)  
(4"x4" , 4"x6" or 4"x8")

NOTE:  
◇ VALID FOR ALL MAX. LOADS & MAX. SPANS EXCEPT SPECIAL LOW LOAD & REDUCED SPAN CONDITIONS PER SHEET 11

### MULLION CONNECTION SCHEDULE

| MULLION TYPE | REQ'D. ALUMINUM ANGLE THICKNESS | REQ'D. THRU BOLT | REQ'D. CONCRETE ANCHORS & EMBEDMENT | MIN. E.D. |
|--------------|---------------------------------|------------------|-------------------------------------|-----------|
| (H) (I)      | 3/8"                            | 5/8 Ø            | (4) 3/4Ø , 5 1/2" EMBED.            | 7 3/4"    |
| (F) (C)      | 1/4"                            | 1/2 Ø            | (4) 1/2Ø , 3 1/2" EMBED.            | 6"        |

## SECTIONS W-2

### **END & INTERIOR WALL MOUNTED MULLION INSTALLATION ◇**

POURED CONCRETE WALL REQUIRED

**(TO BE USED W/ SCHEDULES 2a, 2b & 2c ON SHEETS 19 THRU 21)**

SCALE:  $1/8" = 1'$

FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)

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**TILECO INC.**

**TILLIT TESTING & ENGINEERING COMPANY**  
6745 N.W. 34th St. Ste. 305 VIRGINIA BEACH, VA 23462

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

58 mm SLAT END RETENTION ALUMINUM  
ROLL-UP SHUTTER SYSTEM (L.M.I.)

**FOLDING SHUTTER CORP.**  
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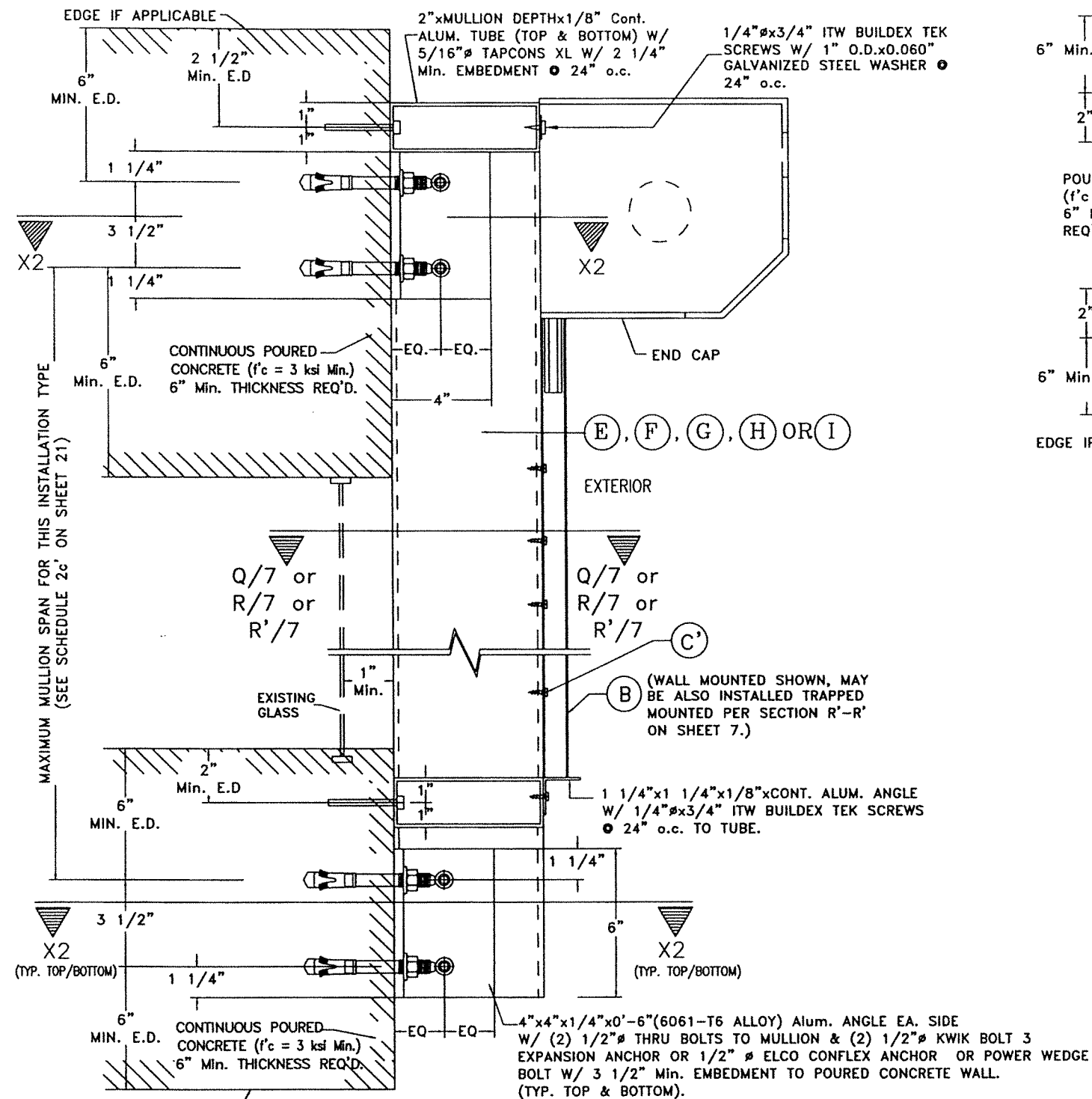
Y.M.  
DRAWN BY:

DATE: 1/14/2023

3-107

DRAWING No.

PAGE 10 OF 21



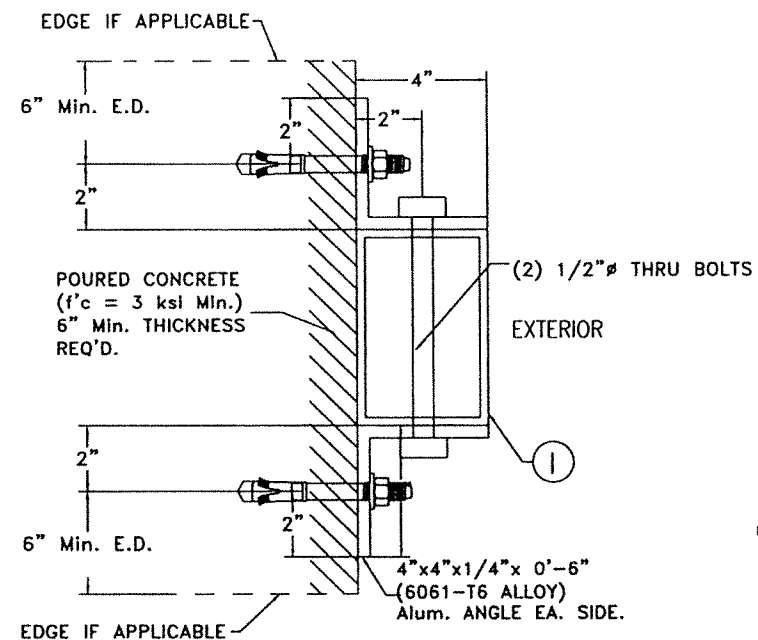
### SECTION W-2

WALL MOUNTING: MULLIONS (E, F, G, H) OR (I)  
POURED CONCRETE WALL

## END & INTERIOR WALL MOUNTED MULLION INSTALLATION ◊ APPLICABLE TO A LIMITED LOAD, LIMITED MULLION SPAN AND LIMITED MULLION SPACING

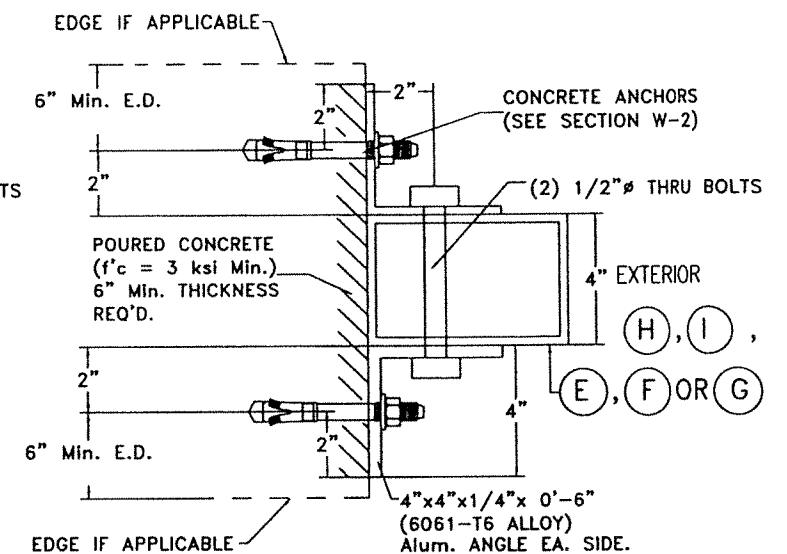
(TO BE USED W/ SCHEDULE 2c' ON SHEET 21)

SCALE: 1/8" = 1"



### SECTION X2-X2 W/ (I)

(END & INTERIOR MULLION)  
(W/ ORIENTATION # 2)



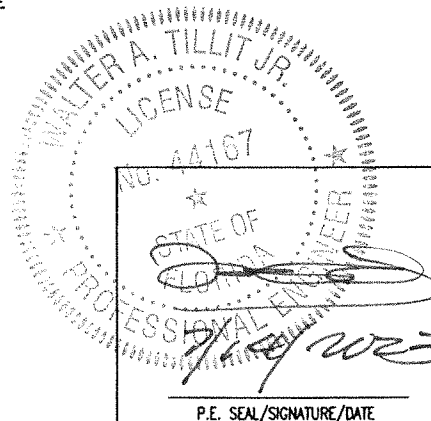
### SECTION X2-X2 W/ (E, F, G, H) OR (I)

(INTERIOR MULLION)  
(W/ ORIENTATION # 1)

◊ SEE MAXIMUM (E, F, G, H, I) (INTERIOR) & (I) (END & INTERIOR) WALL MOUNTED MULLIONS SPAN COVERED BY SCHEDULE 2c' FOR INSTALLATION CASES I' & II' ON SHEET 21 AS FOLLOWS: (LIMITED LOAD, LIMITED MULLION SPACING AND LIMITED SPAN INSTALLATION):

INSTALLATION CASE I' - RESIDENTIAL AND COMMERCIAL APPLICATIONS WITH  $\pm 60.0$  p.s.f. MAXIMUM A.S.D. DESIGN PRESSURE RATING, 12'-0" MAXIMUM MULLION SPACING.

INSTALLATION CASE II' - COMMERCIAL APPLICATION FOR  $\pm 100.0$  p.s.f. MAXIMUM A.S.D. DESIGN PRESSURE RATING, 7'-0" MAXIMUM MULLION SPACING.



| FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)                                                                                                                                                            |             |         |         |             |      |                                                                                                                           |  |                    |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|---------|-------------|------|---------------------------------------------------------------------------------------------------------------------------|--|--------------------|--|
| ©2023 TILTECO, INC.                                                                                                                                                                                                 |             |         |         |             |      | 58 mm SLAT END RETENTION ALUMINUM ROLL-UP SHUTTER SYSTEM (L.M.I.)                                                         |  | Y.M. DRAWN BY:     |  |
| <br>TILLIT TESTING & ENGINEERING COMPANY<br>8355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166<br>Phone: (305)871-1530, Fax: (305)871-1531<br>CA-0006719<br>WALTER A. TILLIT Jr. P.E.<br>FLORIDA Lic. # 44167 |             |         |         |             |      | <b>FOLDING SHUTTER CORP.</b><br>1862 DR. MARTIN LUTHER KING BLVD.<br>WEST PALM BEACH, FL 33404<br>www.foldingshutters.com |  | 7/14/2023<br>DATE: |  |
| REV. NO                                                                                                                                                                                                             | DESCRIPTION | DATE    | REV. NO | DESCRIPTION | DATE | 23-107                                                                                                                    |  | DRAWING No.        |  |
| 1                                                                                                                                                                                                                   | OLD 22-013  | 7/14/23 | 3       | -           | -    | SHEET 11 OF 21                                                                                                            |  |                    |  |
| 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 ON SHEET 13, CHARTS Ia', Ib', Ic' ON SHEET 13A AND CHARTS Ie', If', Ig' ON SHEET 13B 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 ABOVE REFERENCED CHARTS 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:  
  
Lmax: 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 CHARTS Ie , Id' & Ig' ON SHEETS 13 , 13A & 13B RESPECTIVELY.

STEP 3: OBTAIN INFORMATION ON PRODUCT'S SIDE RAIL ANCHOR SPACING REQUIREMENTS FOR CONNECTION TO EXISTING STRUCTURE FROM ANCHOR SCHEDULES Va & Va' ON SHEET 14 & 15, RESPECTIVELY. 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.

- MINIMUM SEPARATION TO GLASS FOR SLATS IF MULLIONS ARE USED SHALL BE BASED ON CHART Id ON SHEET 13. IT SHALL BE MEASURED FROM BACK OF SLATS TO GLASS.
- ENTER SCHEDULES 1a THRU 2c ON SHEETS 19, 20 & 21 W/ A.S.D. DESIGN LOAD; MAXIMUM MULLION SPACING (MAX., 12', OR 7'), AND DETERMINE MAXIMUM MULLIONS SPAN (HEIGHT) W/ ALLOWABLE INTERPOLATION IN BETWEEN SPACING'S FOR A GIVEN MULLION TYPE & MULLION ORIENTATION.

3. SEE SHEETS 8, 9 FOR TRAPPED MOUNTED MULLIONS AND SHEETS 10 & 11 FOR WALL MOUNTED MULLION CONNECTION DETAILS AT TOP & BOTTOM FOR FLOOR TO CEILING (TRAPPED) OR WALL MOUNTINGS OF MULLIONS INTO CONCRETE FOR A GIVEN MULLION TYPE.

\* PROCEDURE PER STEPS 1 THRU 3 IS SIMILAR FOR INSTALLATIONS INTO WOOD FRAME STRUCTURES. SEE SHEETS 17 & 18 FOR LIMITATIONS APPLICABLE TO INSTALLATIONS INTO WOOD FRAME STRUCTURES. (NO MULLIONS ALLOWED, NO TRAPPED MOUNT SHUTTER ALLOWED).

WALTER A. TILLIT JR.

LICENSE

No. 44167

STATE OF FLORIDA

PROFESSIONAL ENGINEER

7/14/2023

P.E. SEAL/SIGNATURE/DATE

| FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)                                                                                                                                                                                                                                          |             |         |                                                                                                                                                       |             |                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| ©2023 TILTECO, INC.                                                                                                                                                                                                                                                                               |             |         | 58 mm SLAT END RETENTION ALUMINUM ROLL-UP SHUTTER SYSTEM (L.M.I.)                                                                                     |             | Y.M.<br>DRAWN BY:     |
| <div>TILTECO INC.</div> <div>TILLIT TESTING &amp; ENGINEERING COMPANY</div> <div>6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166</div> <div>Phone : (305)871-1530 . Fax : (305)871-1531</div> <div>CA-0006719</div> <div>WALTER A. TILLIT Jr. P.E.</div> <div>FLORIDA Lic. # 44167</div> |             |         | <div>FOLDING SHUTTER CORP.</div> <div>1862 DR. MARTIN LUTHER KING BLVD.</div> <div>WEST PALM BEACH, FL 33404</div> <div>www.foldingshutters.com</div> |             | 7/14/2023<br>DATE:    |
|                                                                                                                                                                                                                                                                                                   |             |         |                                                                                                                                                       |             | 23-107<br>DRAWING No. |
| REV. NO                                                                                                                                                                                                                                                                                           | DESCRIPTION | DATE    | REV. No                                                                                                                                               | DESCRIPTION | DATE                  |
| 1                                                                                                                                                                                                                                                                                                 | OLD 22-013  | 7/14/23 | 3                                                                                                                                                     | -           | -                     |
| 2                                                                                                                                                                                                                                                                                                 | -           | -       | 4                                                                                                                                                     | -           | -                     |
|                                                                                                                                                                                                                                                                                                   |             |         |                                                                                                                                                       |             | SHEET 12 OF 21        |

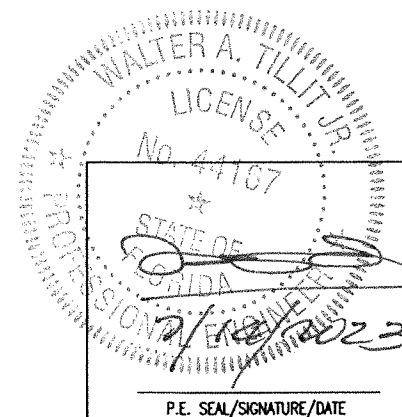
SLAT PERFORMANCE CHARTS Ia, Ib, Ic, Id & Ie: (ONLY VALID FOR 3/8" SLIP).  
(SEE SHTS. 13A & 13B FOR GROUTED BLOCK SUBSTRATE AND SEE SHEET 17 FOR WOOD SUBSTRATE)

FOR A GIVEN A.S.D. DESIGN PRESSURE RATING (p.s.f), PRODUCT MOUNT CONDITION INCLUDING ANCHOR TYPE \*

| MAX.<br>A.S.D.<br>DESIGN<br>PRESSURE<br>RATING<br>(psf) | CHART Ia                                                            |                  |                                       |                            |                                      | CHART Ib                                               |                  |                                       |                            |                                      | CHART Ic                                                     |                  |                                       |                            |                                      | CHART Id                                    |                  |                                       |                            |                                      | CHART Ie                                                                    |        |
|---------------------------------------------------------|---------------------------------------------------------------------|------------------|---------------------------------------|----------------------------|--------------------------------------|--------------------------------------------------------|------------------|---------------------------------------|----------------------------|--------------------------------------|--------------------------------------------------------------|------------------|---------------------------------------|----------------------------|--------------------------------------|---------------------------------------------|------------------|---------------------------------------|----------------------------|--------------------------------------|-----------------------------------------------------------------------------|--------|
|                                                         | 3/8"Ø CONFLEX OR<br>3/8"Ø KWIK BOLT 3 ANCHORS<br>TO POURED CONCRETE |                  |                                       |                            |                                      | 3/8"Ø POWER WEDGE BOLT<br>ANCHOR<br>TO POURED CONCRETE |                  |                                       |                            |                                      | 5/16"Ø ULTRACON OR<br>3/8"Ø LDT ANCHOR<br>TO POURED CONCRETE |                  |                                       |                            |                                      | 3/8" Ø SCREW BOLT<br>TO POURED CONCRETE     |                  |                                       |                            |                                      | USE MAXIMUM POSITIVE<br>A.S.D. LOAD VALUE                                   |        |
|                                                         | MAX. SLAT SPAN<br>"L <sub>MAX.</sub> " (FT)                         |                  |                                       |                            |                                      | MAX. SLAT SPAN<br>"L <sub>MAX.</sub> " (FT)            |                  |                                       |                            |                                      | MAX. SLAT SPAN<br>"L <sub>MAX.</sub> " (FT)                  |                  |                                       |                            |                                      | MAX. SLAT SPAN<br>"L <sub>MAX.</sub> " (FT) |                  |                                       |                            |                                      | REQUIRED MIN.<br>SEPARATION TO<br>GLASS MEASURED<br>TO BACK OF SLAT<br>(in) |        |
|                                                         | WALL<br>MOUNT                                                       | TRAPPED<br>MOUNT | BUILD-OUT<br>MOUNT W/<br>R, Q<br>OR T | BUILD-OUT<br>MOUNT W/<br>P | BUILD-OUT<br>MOUNT W/<br>S, U<br>& J | WALL<br>MOUNT                                          | TRAPPED<br>MOUNT | BUILD-OUT<br>MOUNT W/<br>R, Q<br>OR T | BUILD-OUT<br>MOUNT W/<br>P | BUILD-OUT<br>MOUNT W/<br>S, U<br>& J | WALL<br>MOUNT                                                | TRAPPED<br>MOUNT | BUILD-OUT<br>MOUNT W/<br>R, Q<br>OR T | BUILD-OUT<br>MOUNT W/<br>P | BUILD-OUT<br>MOUNT W/<br>S, U<br>& J | WALL<br>MOUNT                               | TRAPPED<br>MOUNT | BUILD-OUT<br>MOUNT W/<br>R, Q<br>OR T | BUILD-OUT<br>MOUNT W/<br>P | BUILD-OUT<br>MOUNT W/<br>S, U<br>& J | ZONE 1, 2<br>& 3                                                            | ZONE 4 |
| 25.0                                                    | 24'-0"                                                              | 24'-0"           | 15'-0"                                | 19'-0"                     | 18'-0"                               | 24'-0"                                                 | 24'-0"           | 13'-6"                                | 17'-0"                     | 15'-0"                               | 24'-0"                                                       | 19'-0"           | 11'-0"                                | 14'-0"                     | 12'-0"                               | 24'-0"                                      | 24'-0"           | 15'-0"                                | 19'-0"                     | 18'-0"                               | 1"                                                                          | 12"    |
| 30.0                                                    | 22'-0"                                                              | 22'-0"           | 13'-6"                                | 18'-0"                     | 15'-0"                               | 22'-0"                                                 | 22'-0"           | 12'-0"                                | 16'-0"                     | 13'-0"                               | 21'-0"                                                       | 17'-0"           | 10'-0"                                | 12'-6"                     | 11'-0"                               | 22'-0"                                      | 22'-0"           | 13'-6"                                | 18'-0"                     | 15'-0"                               | 1"                                                                          | 12"    |
| 35.0                                                    | 19'-0"                                                              | 19'-0"           | 12'-0"                                | 16'-5"                     | 14'-0"                               | 19'-0"                                                 | 19'-0"           | 11'-0"                                | 14'-5"                     | 12'-0"                               | 19'-0"                                                       | 15'-0"           | 9'-6"                                 | 11'-6"                     | 10'-6"                               | 19'-0"                                      | 19'-0"           | 12'-0"                                | 16'-5"                     | 14'-0"                               | 1"                                                                          | 12"    |
| 40.0                                                    | 17'-6"                                                              | 17'-6"           | 11'-0"                                | 15'-0"                     | 13'-0"                               | 17'-6"                                                 | 17'-6"           | 10'-0"                                | 13'-0"                     | 11'-0"                               | 17'-0"                                                       | 14'-0"           | 9'-0"                                 | 10'-6"                     | 10'-0"                               | 17'-6"                                      | 17'-6"           | 11'-0"                                | 15'-0"                     | 13'-0"                               | 1"                                                                          | 11"    |
| 45.0                                                    | 16'-0"                                                              | 16'-0"           | 10'-6"                                | 13'-9"                     | 12'-0"                               | 16'-0"                                                 | 16'-0"           | 9'-6"                                 | 11'-9"                     | 10'-6"                               | 15'-6"                                                       | 13'-0"           | 8'-6"                                 | 10'-0"                     | 9'-6"                                | 16'-0"                                      | 16'-0"           | 10'-6"                                | 13'-9"                     | 12'-0"                               | 1"                                                                          | 11"    |
| 50.0                                                    | 15'-0"                                                              | 15'-0"           | 10'-0"                                | 12'-6"                     | 11'-0"                               | 15'-0"                                                 | 15'-0"           | 9'-0"                                 | 11'-6"                     | 10'-0"                               | 14'-0"                                                       | 12'-0"           | 8'-0"                                 | 9'-6"                      | 9'-0"                                | 15'-0"                                      | 15'-0"           | 10'-0"                                | 12'-6"                     | 11'-0"                               | 1"                                                                          | 11"    |
| 55.0                                                    | 14'-0"                                                              | 14'-0"           | 9'-6"                                 | 11'-9"                     | 10'-6"                               | 14'-0"                                                 | 14'-0"           | 8'-6"                                 | 10'-9"                     | 9'-6"                                | 13'-6"                                                       | 11'-6"           | 7'-9"                                 | 9'-0"                      | 8'-6"                                | 14'-0"                                      | 14'-0"           | 9'-6"                                 | 11'-9"                     | 10'-6"                               | 1"                                                                          | 11"    |
| 60.0                                                    | 13'-3"                                                              | 13'-3"           | 9'-0"                                 | 11'-0"                     | 10'-0"                               | 13'-3"                                                 | 13'-3"           | 8'-0"                                 | 10'-0"                     | 9'-0"                                | 13'-0"                                                       | 11'-0"           | 7'-6"                                 | 8'-6"                      | 8'-0"                                | 13'-3"                                      | 13'-3"           | 9'-0"                                 | 11'-0"                     | 10'-0"                               | 1"                                                                          | 11"    |
| 65.0                                                    | 12'-6"                                                              | 12'-6"           | 8'-8"                                 | 10'-8"                     | 9'-6"                                | 12'-6"                                                 | 12'-6"           | 7'-9"                                 | 9'-8"                      | 8'-9"                                | 12'-0"                                                       | 10'-7"           | 7'-3"                                 | 8'-3"                      | 7'-9"                                | 12'-6"                                      | 12'-6"           | 8'-8"                                 | 10'-8"                     | 9'-6"                                | 1"                                                                          | 11"    |
| 70.0                                                    | 12'-0"                                                              | 12'-0"           | 8'-5"                                 | 10'-3"                     | 9'-0"                                | 12'-0"                                                 | 12'-0"           | 7'-7"                                 | 9'-3"                      | 8'-5"                                | 11'-0"                                                       | 10'-2"           | 6'-11"                                | 8'-0"                      | 7'-5"                                | 12'-0"                                      | 12'-0"           | 8'-5"                                 | 10'-3"                     | 9'-0"                                | 1"                                                                          | 11"    |
| 75.0                                                    | 11'-4"                                                              | 11'-4"           | 8'-3"                                 | 9'-10"                     | 8'-9"                                | 11'-4"                                                 | 11'-4"           | 7'-5"                                 | 8'-10"                     | 8'-2"                                | 10'-4"                                                       | 9'-6"            | 6'-8"                                 | 7'-9"                      | 7'-2"                                | 11'-4"                                      | 11'-4"           | 8'-3"                                 | 9'-10"                     | 8'-9"                                | 1"                                                                          | 11"    |
| 80.0                                                    | 11'-0"                                                              | 11'-0"           | 8'-0"                                 | 9'-6"                      | 8'-6"                                | 11'-0"                                                 | 11'-0"           | 7'-3"                                 | 8'-6"                      | 8'-0"                                | 9'-10"                                                       | 9'-0"            | 6'-6"                                 | 7'-6"                      | 7'-0"                                | 11'-0"                                      | 11'-0"           | 8'-0"                                 | 9'-6"                      | 8'-6"                                | 1"                                                                          | 8"     |
| 85.0                                                    | 10'-6"                                                              | 10'-6"           | 7'-8"                                 | 9'-4"                      | 8'-3"                                | 10'-6"                                                 | 10'-6"           | 7'-1"                                 | 8'-3"                      | 7'-9"                                | 9'-7"                                                        | 8'-9"            | 6'-5"                                 | 7'-3"                      | 6'-11"                               | 10'-6"                                      | 10'-6"           | 7'-8"                                 | 9'-4"                      | 8'-3"                                | 1"                                                                          | 8"     |
| 90.0                                                    | 10'-2"                                                              | 10'-2"           | 7'-5"                                 | 8'-10"                     | 7'-11"                               | 10'-2"                                                 | 10'-2"           | 6'-10"                                | 8'-0"                      | 7'-5"                                | 9'-4"                                                        | 8'-6"            | 6'-3"                                 | 7'-0"                      | 6'-9"                                | 10'-2"                                      | 10'-2"           | 7'-5"                                 | 8'-10"                     | 7'-11"                               | 1"                                                                          | 8"     |
| 95.0                                                    | 9'-9"                                                               | 9'-9"            | 7'-2"                                 | 8'-5"                      | 7'-8"                                | 9'-9"                                                  | 9'-9"            | 6'-8"                                 | 7'-9"                      | 7'-3"                                | 9'-2"                                                        | 8'-3"            | 6'-1"                                 | 6'-9"                      | 6'-7"                                | 9'-9"                                       | 9'-9"            | 7'-2"                                 | 8'-5"                      | 7'-8"                                | 1"                                                                          | 8"     |
| 100.0                                                   | 9'-5"                                                               | 9'-5"            | 7'-0"                                 | 8'-0"                      | 7'-6"                                | 9'-5"                                                  | 9'-5"            | 6'-6"                                 | 7'-6"                      | 7'-0"                                | 9'-0"                                                        | 8'-0"            | 6'-0"                                 | 6'-6"                      | 6'-6"                                | 9'-5"                                       | 9'-5"            | 7'-0"                                 | 8'-0"                      | 7'-6"                                | 1"                                                                          | 6"     |
| 105.0                                                   | 9'-2"                                                               | 9'-2"            | 6'-11"                                | 7'-10"                     | 7'-4"                                | 9'-2"                                                  | 9'-2"            | 6'-5"                                 | 7'-4"                      | 6'-11"                               | 8'-9"                                                        | 7'-9"            | 5'-11"                                | 6'-5"                      | 6'-5"                                | 9'-2"                                       | 9'-2"            | 6'-11"                                | 7'-10"                     | 7'-4"                                | 1"                                                                          | 6"     |
| 110.0                                                   | 9'-0"                                                               | 9'-0"            | 6'-10"                                | 7'-8"                      | 7'-2"                                | 9'-0"                                                  | 9'-0"            | 6'-5"                                 | 7'-2"                      | 6'-10"                               | 8'-6"                                                        | 7'-7"            | 5'-11"                                | 6'-4"                      | 6'-4"                                | 9'-0"                                       | 9'-0"            | 6'-10"                                | 7'-8"                      | 7'-2"                                | 1"                                                                          | 6"     |
| 115.0                                                   | 8'-9"                                                               | 8'-9"            | 6'-9"                                 | 7'-6"                      | 6'-11"                               | 8'-9"                                                  | 8'-9"            | 6'-4"                                 | 7'-0"                      | 6'-9"                                | 8'-3"                                                        | 7'-5"            | 5'-10"                                | 6'-3"                      | 6'-3"                                | 8'-9"                                       | 8'-9"            | 6'-9"                                 | 7'-6"                      | 6'-11"                               | 1"                                                                          | 6"     |
| 120.0                                                   | 8'-6"                                                               | 8'-6"            | 6'-8"                                 | 7'-4"                      | 6'-9"                                | 8'-6"                                                  | 8'-6"            | 6'-4"                                 | 6'-10"                     | 6'-8"                                | 8'-0"                                                        | 7'-3"            | 5'-10"                                | 6'-2"                      | 6'-2"                                | 8'-6"                                       | 8'-6"            | 6'-8"                                 | 7'-4"                      | 6'-9"                                | 1"                                                                          | 6"     |
| 125.0                                                   | 8'-3"                                                               | 8'-3"            | 6'-7"                                 | 7'-2"                      | 6'-7"                                | 8'-3"                                                  | 8'-3"            | 6'-4"                                 | 6'-8"                      | 6'-7"                                | 7'-9"                                                        | 7'-1"            | 5'-9"                                 | 6'-1"                      | 6'-1"                                | 8'-3"                                       | 8'-3"            | 6'-7"                                 | 7'-2"                      | 6'-7"                                | 1"                                                                          | 6"     |
| 130.0                                                   | 8'-0"                                                               | 8'-0"            | 6'-6"                                 | 7'-0"                      | 6'-6"                                | 8'-0"                                                  | 8'-0"            | 6'-3"                                 | 6'-6"                      | 6'-6"                                | 7'-6"                                                        | 7'-0"            | 5'-9"                                 | 6'-0"                      | 6'-0"                                | 8'-0"                                       | 8'-0"            | 6'-6"                                 | 7'-0"                      | 6'-6"                                | 1"                                                                          | 6"     |
| 135.0                                                   | 7'-10"                                                              | 7'-10"           | 6'-4"                                 | 6'-10"                     | 6'-5"                                | 7'-10"                                                 | 7'-10"           | 6'-1"                                 | 6'-5"                      | 6'-5"                                | 7'-3"                                                        | 6'-10"           | 5'-8"                                 | 5'-11"                     | 5'-11"                               | 7'-10"                                      | 7'-10"           | 6'-4"                                 | 6'-10"                     | 6'-5"                                | 1"                                                                          | 6"     |
| 140.0                                                   | 7'-6"                                                               | 7'-6"            | 6'-2"                                 | 6'-8"                      | 6'-4"                                | 7'-6"                                                  | 7'-6"            | 6'-0"                                 | 6'-4"                      | 6'-3"                                | 7'-0"                                                        | 6'-8"            | 5'-8"                                 | 5'-10"                     | 5'-10"                               | 7'-6"                                       | 7'-6"            | 6'-2"                                 | 6'-8"                      | 6'-4"                                | 1"                                                                          | 6"     |
| 145.0                                                   | 7'-3"                                                               | 7'-3"            | 5'-11"                                | 6'-6"                      | 6'-3"                                | 7'-3"                                                  | 7'-3"            | 5'-9"                                 | 6'-4"                      | 6'-1"                                | 6'-9"                                                        | 6'-6"            | 5'-7"                                 | 5'-9"                      | 5'-9"                                | 7'-3"                                       | 7'-3"            | 5'-11"                                | 6'-6"                      | 6'-3"                                | 1"                                                                          | 6"     |
| 150.0                                                   | 7'-0"                                                               | 7'-0"            | 5'-9"                                 | 6'-4"                      | 6'-2"                                | 7'-0"                                                  | 7'-0"            | 5'-8"                                 | 6'-3"                      | 5'-9"                                | 6'-6"                                                        | 6'-4"            | 5'-7"                                 | 5'-8"                      | 5'-8"                                | 7'-0"                                       | 7'-0"            | 5'-9"                                 | 6'-4"                      | 6'-2"                                | 1"                                                                          | 6"     |
| 155.0                                                   | 6'-6"                                                               | 6'-6"            | 5'-8"                                 | 6'-2"                      | 6'-1"                                | 6'-6"                                                  | 6'-6"            | 5'-7"                                 | 6'-2"                      | 5'-7"                                | 6'-3"                                                        | 6'-2"            | 5'-6"                                 | 5'-7"                      | 5'-7"                                | 6'-6"                                       | 6'-6"            | 5'-8"                                 | 6'-2"                      | 6'-1"                                | 1"                                                                          | 6"     |
| 160.0                                                   | 6'-1"                                                               | 6'-1"            | 5'-6"                                 | 6'-1"                      | 6'-1"                                | 6'-1"                                                  | 6'-1"            | 5'-6"                                 | 6'-1"                      | 5'-6"                                | 6'-1"                                                        | 6'-1"            | 5'-6"                                 | 5'-6"                      | 5'-6"                                | 6'-1"                                       | 6'-1"            | 5'-6"                                 | 6'-1"                      | 6'-1"                                | 1"                                                                          | 6"     |

\* NOTES:

- ABOVE INDICATED MAX. SLAT SPANS MAY BE USED AS LONG AS ANCHOR SPACING SCHEDULES ON SHEETS 14, 15 INDICATE THAT AN ANCHOR SPACING IS AVAILABLE FOR THE CORRESPONDING SLAT SPAN AND A.S.D. DESIGN PRESSURE RATING.
- REQUIRES SIDE RAILS FASTENED WITH 3/8"Ø KWIK BOLT 3, 5/16"Ø ULTRACON, 3/8"Ø ELCO CONFLEX, 3/8"Ø POWERS WEDGE BOLT OR 3/8"Ø SCREW BOLT INTO POURED CONCRETE WITH (C) AT MULLIONS CONNECTION. VALID FOR WALL MOUNTED, TRAPPED MOUNTED, AND BUILD-OUT MOUNTED SLATS.
- MAXIMUM SLAT SPANS FOR INTERMEDIATE LOADS MAY BE DETERMINED BY LINEAR INTERPOLATION BETWEEN END VALUES. NO INTERPOLATION IS ALLOWED FOR SEPARATION TO GLASS.
- WIND ZONES 1 THRU 4 AS DEFINED BY ASTM E-1996 STANDARD.



| FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)                                                                                                                                                                                  |             |         |         |             |                                                                                                                           |                                                                                    |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|---------|-------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--|--|--|
| ©2023 TILTECO, INC.                                                                                                                                                                                                                       |             |         |         |             | 58 mm SLAT END RETENTION ALUMINUM<br>ROLL-UP SHUTTER SYSTEM (L.M.I.)                                                      |                                                                                    |  |  |  |
| <b>TILTECO INC.</b><br>TILLIT TESTING & ENGINEERING COMPANY<br>6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166<br>Phone : (305)871-1530 • Fax : (305)871-1531<br>CA-0006719<br>WALTER A. TILLIT Jr. P.E.<br>FLORIDA Lic. # 44167 |             |         |         |             | <b>FOLDING SHUTTER CORP.</b><br>1862 DR. MARTIN LUTHER KING BLVD.<br>WEST PALM BEACH, FL 33404<br>www.foldingshutters.com |                                                                                    |  |  |  |
| REV. NO                                                                                                                                                                                                                                   | DESCRIPTION | DATE    | REV. NO | DESCRIPTION | DATE                                                                                                                      | Y.M.<br>DRAWN BY:<br>7/14/2023<br>DATE:<br>23-107<br>DRAWING No.<br>SHEET 13 OF 21 |  |  |  |
| 1                                                                                                                                                                                                                                         | OLD 22-013  | 7/14/23 | 3       | -           | -                                                                                                                         |                                                                                    |  |  |  |
| 2                                                                                                                                                                                                                                         | -           | -       | 4       | -           | -                                                                                                                         |                                                                                    |  |  |  |

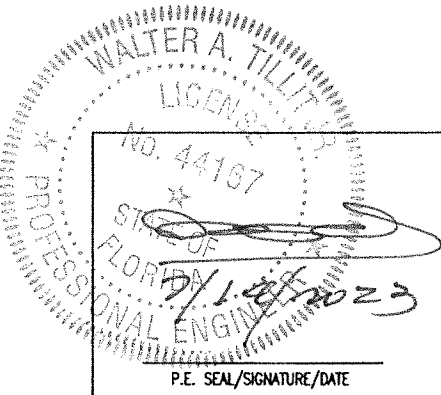
SLAT PERFORMANCE CHARTS Ia', Ib', Ic' & Id': (ONLY VALID FOR 3/8" SLIP).  
(SEE SHT. 13 FOR CONCRETE SUBSTRATE, SEE SHT. 13B FOR ADDITIONAL GROUTED BLOCK SUBSTRATE &  
SEE SHEET 17 FOR WOOD SUBSTRATE)

FOR A GIVEN A.S.D. DESIGN PRESSURE RATING (p.s.f), PRODUCT MOUNT CONDITION INCLUDING ANCHOR TYPE\*

| MAX.<br>A.S.D.<br>DESIGN<br>PRESSURE<br>RATING<br>(psf) | CHART Ia'                                   |                  |                                       |                            |                                      | CHART Ib'                                                                            |                  |                                       |                            |                                      | CHART Ic'                                         |                  |                                       |                            |                                      | CHART Id'                                                                   |        |
|---------------------------------------------------------|---------------------------------------------|------------------|---------------------------------------|----------------------------|--------------------------------------|--------------------------------------------------------------------------------------|------------------|---------------------------------------|----------------------------|--------------------------------------|---------------------------------------------------|------------------|---------------------------------------|----------------------------|--------------------------------------|-----------------------------------------------------------------------------|--------|
|                                                         | <u>3/8"Ø LDT ANCHOR</u><br>TO GROUTED BLOCK |                  |                                       |                            |                                      | <u>3/8"Ø POWER WEDGE BOLT OR</u><br><u>3/8"Ø DYNABOLT SLEEVE</u><br>TO GROUTED BLOCK |                  |                                       |                            |                                      | <u>5/16"Ø ULTRACON ANCHOR</u><br>TO GROUTED BLOCK |                  |                                       |                            |                                      | USE MAXIMUM POSITIVE<br>A.S.D. LOAD VALUE                                   |        |
|                                                         | MAX. SLAT SPAN<br>"L <sub>MAX.</sub> " (FT) |                  |                                       |                            |                                      | MAX. SLAT SPAN<br>"L <sub>MAX.</sub> " (FT)                                          |                  |                                       |                            |                                      | MAX. SLAT SPAN<br>"L <sub>MAX.</sub> " (FT)       |                  |                                       |                            |                                      | REQUIRED MIN.<br>SEPARATION TO<br>GLASS MEASURED<br>TO BACK OF SLAT<br>(in) |        |
|                                                         | WALL<br>MOUNT                               | TRAPPED<br>MOUNT | BUILD-OUT<br>MOUNT W/<br>R, Q<br>OR T | BUILD-OUT<br>MOUNT W/<br>P | BUILD-OUT<br>MOUNT W/<br>S, U<br>& V | WALL<br>MOUNT                                                                        | TRAPPED<br>MOUNT | BUILD-OUT<br>MOUNT W/<br>R, Q<br>OR T | BUILD-OUT<br>MOUNT W/<br>P | BUILD-OUT<br>MOUNT W/<br>S, U<br>& V | WALL<br>MOUNT                                     | TRAPPED<br>MOUNT | BUILD-OUT<br>MOUNT W/<br>R, Q<br>OR T | BUILD-OUT<br>MOUNT W/<br>P | BUILD-OUT<br>MOUNT W/<br>S, U<br>& V | ZONE 1, 2<br>& 3                                                            | ZONE 4 |
| 25.0                                                    | 22'-0"                                      | 14'-0"           | 10'-0"                                | 11'-0"                     | 10'-6"                               | 17'-0"                                                                               | 14'-0"           | 10'-0"                                | 11'-6"                     | 10'-6"                               | 16'-0"                                            | 14'-0"           | 9'-6"                                 | 11'-0"                     | 10'-0"                               | 1"                                                                          | 12"    |
| 30.0                                                    | 19'-0"                                      | 13'-0"           | 9'-0"                                 | 10'-6"                     | 9'-6"                                | 14'-6"                                                                               | 12'-0"           | 9'-0"                                 | 10'-6"                     | 9'-6"                                | 14'-0"                                            | 12'-0"           | 9'-0"                                 | 10'-0"                     | 9'-6"                                | 1"                                                                          | 12"    |
| 35.0                                                    | 17'-0"                                      | 12'-0"           | 8'-6"                                 | 9'-6"                      | 9'-0"                                | 13'-0"                                                                               | 11'-0"           | 8'-6"                                 | 9'-6"                      | 9'-0"                                | 12'-6"                                            | 11'-0"           | 8'-6"                                 | 8'-10"                     | 9'-0"                                | 1"                                                                          | 12"    |
| 40.0                                                    | 15'-0"                                      | 11'-0"           | 8'-0"                                 | 9'-0"                      | 8'-6"                                | 11'-6"                                                                               | 10'-0"           | 8'-0"                                 | 9'-0"                      | 8'-6"                                | 11'-6"                                            | 10'-0"           | 8'-0"                                 | 8'-6"                      | 8'-6"                                | 1"                                                                          | 12"    |
| 45.0                                                    | 13'-9"                                      | 10'-3"           | 7'-9"                                 | 8'-6"                      | 8'-3"                                | 10'-10"                                                                              | 9'-6"            | 7'-9"                                 | 8'-6"                      | 8'-3"                                | 11'-0"                                            | 9'-6"            | 7'-9"                                 | 8'-3"                      | 8'-3"                                | 1"                                                                          | 11"    |
| 50.0                                                    | 12'-6"                                      | 9'-6"            | 7'-6"                                 | 8'-0"                      | 8'-0"                                | 10'-3"                                                                               | 9'-0"            | 7'-6"                                 | 8'-0"                      | 8'-0"                                | 10'-0"                                            | 9'-0"            | 7'-6"                                 | 8'-0"                      | 8'-0"                                | 1"                                                                          | 11"    |
| 55.0                                                    | 11'-3"                                      | 8'-9"            | 7'-3"                                 | 7'-9"                      | 7'-9"                                | 9'-10"                                                                               | 8'-9"            | 7'-3"                                 | 7'-9"                      | 7'-9"                                | 9'-6"                                             | 8'-9"            | 7'-3"                                 | 7'-9"                      | 7'-9"                                | 1"                                                                          | 11"    |
| 60.0                                                    | 10'-0"                                      | 8'-0"            | 7'-0"                                 | 7'-6"                      | 7'-6"                                | 9'-6"                                                                                | 8'-6"            | 7'-0"                                 | 7'-6"                      | 7'-6"                                | 9'-3"                                             | 8'-6"            | 7'-0"                                 | 7'-6"                      | 7'-6"                                | 1"                                                                          | 11"    |
| 65.0                                                    | 9'-9"                                       | 7'-10"           | 6'-8"                                 | 7'-4"                      | 7'-4"                                | 9'-2"                                                                                | 8'-3"            | 6'-8"                                 | 7'-4"                      | 7'-4"                                | 9'-0"                                             | 8'-3"            | 6'-8"                                 | 7'-3"                      | 7'-4"                                | 1"                                                                          | 11"    |
| 70.0                                                    | 9'-6"                                       | 7'-8"            | 6'-5"                                 | 7'-2"                      | 6'-11"                               | 8'-8"                                                                                | 8'-0"            | 6'-5"                                 | 7'-2"                      | 6'-11"                               | 8'-6"                                             | 8'-0"            | 6'-5"                                 | 7'-0"                      | 6'-11"                               | 1"                                                                          | 11"    |
| 75.0                                                    | 9'-3"                                       | 7'-7"            | 6'-2"                                 | 6'-10"                     | 6'-8"                                | 8'-4"                                                                                | 7'-9"            | 6'-2"                                 | 6'-10"                     | 6'-8"                                | 8'-0"                                             | 7'-9"            | 6'-2"                                 | 6'-9"                      | 6'-8"                                | 1"                                                                          | 11"    |
| 80.0                                                    | 9'-0"                                       | 7'-6"            | 6'-0"                                 | 6'-6"                      | 6'-6"                                | 8'-0"                                                                                | 7'-6"            | 6'-0"                                 | 6'-6"                      | 6'-6"                                | 7'-6"                                             | 7'-6"            | 6'-0"                                 | 6'-7"                      | 6'-6"                                | 1"                                                                          | 11"    |
| 85.0                                                    | 8'-9"                                       | 7'-3"            | 5'-11"                                | 6'-5"                      | 6'-5"                                | 7'-9"                                                                                | 7'-3"            | 5'-11"                                | 6'-5"                      | 6'-5"                                | 7'-3"                                             | 7'-3"            | 5'-10"                                | 6'-5"                      | 6'-5"                                | 1"                                                                          | 8"     |
| 90.0                                                    | 8'-6"                                       | 7'-0"            | 5'-10"                                | 6'-3"                      | 6'-3"                                | 7'-6"                                                                                | 7'-0"            | 5'-10"                                | 6'-3"                      | 6'-3"                                | 7'-0"                                             | 7'-0"            | 5'-8"                                 | 6'-3"                      | 6'-3"                                | 1"                                                                          | 8"     |
| 95.0                                                    | 8'-3"                                       | 6'-9"            | 5'-8"                                 | 6'-1"                      | 6'-1"                                | 7'-3"                                                                                | 6'-9"            | 5'-8"                                 | 6'-1"                      | 6'-1"                                | 6'-11"                                            | 6'-9"            | 5'-7"                                 | 6'-1"                      | 6'-1"                                | 1"                                                                          | 8"     |
| 100.0                                                   | 8'-0"                                       | 6'-6"            | 5'-6"                                 | 6'-0"                      | 6'-0"                                | 7'-0"                                                                                | 6'-6"            | 5'-6"                                 | 6'-0"                      | 6'-0"                                | 6'-10"                                            | 6'-6"            | 5'-6"                                 | 6'-0"                      | 6'-0"                                | 1"                                                                          | 8"     |
| 105.0                                                   | 7'-9"                                       | 6'-5"            | 5'-5"                                 | 5'-11"                     | 5'-11"                               | 6'-11"                                                                               | 6'-5"            | 5'-5"                                 | 5'-11"                     | 5'-11"                               | 6'-9"                                             | 6'-5"            | 5'-5"                                 | 5'-11"                     | 5'-11"                               | 1"                                                                          | 6"     |
| 110.0                                                   | 7'-6"                                       | 6'-4"            | 5'-5"                                 | 5'-10"                     | 5'-10"                               | 6'-10"                                                                               | 6'-3"            | 5'-5"                                 | 5'-10"                     | 5'-10"                               | 6'-9"                                             | 6'-3"            | 5'-5"                                 | 5'-10"                     | 5'-9"                                | 1"                                                                          | 6"     |
| 115.0                                                   | 7'-2"                                       | 6'-3"            | 5'-4"                                 | 5'-9"                      | 5'-9"                                | 6'-9"                                                                                | 6'-1"            | 5'-4"                                 | 5'-9"                      | 5'-9"                                | 6'-8"                                             | 6'-1"            | 5'-4"                                 | 5'-9"                      | 5'-8"                                | 1"                                                                          | 6"     |
| 120.0                                                   | 6'-10"                                      | 6'-2"            | 5'-3"                                 | 5'-8"                      | 5'-8"                                | 6'-8"                                                                                | 6'-0"            | 5'-3"                                 | 5'-8"                      | 5'-8"                                | 6'-6"                                             | 6'-0"            | 5'-4"                                 | 5'-8"                      | 5'-7"                                | 1"                                                                          | 6"     |
| 125.0                                                   | 6'-9"                                       | 6'-1"            | 5'-3"                                 | 5'-7"                      | 5'-7"                                | 6'-7"                                                                                | 5'-6"            | 5'-3"                                 | 5'-7"                      | 5'-7"                                | 6'-3"                                             | 5'-6"            | 5'-3"                                 | 5'-7"                      | 5'-6"                                | 1"                                                                          | 6"     |
| 130.0                                                   | 6'-9"                                       | 6'-0"            | 5'-2"                                 | 5'-6"                      | 5'-6"                                | 6'-6"                                                                                | 5'-0"            | 5'-2"                                 | 5'-6"                      | 5'-6"                                | 6'-0"                                             | 5'-0"            | 5'-3"                                 | 5'-6"                      | 5'-5"                                | 1"                                                                          | 6"     |
| 135.0                                                   | 6'-7"                                       | 5'-11"           | 5'-2"                                 | 5'-5"                      | 5'-5"                                | 6'-4"                                                                                | 4'-10"           | 5'-2"                                 | 5'-5"                      | 5'-5"                                | 5'-10"                                            | 4'-10"           | 5'-3"                                 | 5'-5"                      | 5'-4"                                | 1"                                                                          | 6"     |
| 140.0                                                   | 6'-6"                                       | 5'-10"           | 5'-2"                                 | 5'-4"                      | 5'-3"                                | 6'-2"                                                                                | 4'-8"            | 5'-2"                                 | 5'-4"                      | 5'-3"                                | 5'-9"                                             | 4'-8"            | 5'-2"                                 | 5'-4"                      | 5'-3"                                | 1"                                                                          | 6"     |
| 145.0                                                   | 6'-5"                                       | 5'-9"            | 5'-1"                                 | 5'-3"                      | 5'-2"                                | 6'-0"                                                                                | 4'-6"            | 5'-1"                                 | 5'-3"                      | 5'-2"                                | 5'-8"                                             | 4'-6"            | 5'-2"                                 | 5'-3"                      | 5'-2"                                | 1"                                                                          | 6"     |
| 150.0                                                   | 6'-3"                                       | 5'-8"            | 5'-1"                                 | 5'-2"                      | 5'-1"                                | 5'-10"                                                                               | 4'-4"            | 5'-1"                                 | 5'-2"                      | 5'-1"                                | 5'-8"                                             | 4'-4"            | 5'-1"                                 | 5'-2"                      | 5'-1"                                | 1"                                                                          | 6"     |
| 155.0                                                   | 6'-2"                                       | 5'-7"            | 5'-0"                                 | 5'-1"                      | 5'-0"                                | 5'-8"                                                                                | 4'-2"            | 5'-0"                                 | 5'-1"                      | 5'-0"                                | 5'-7"                                             | 4'-2"            | 5'-0"                                 | 5'-1"                      | 5'-0"                                | 1"                                                                          | 6"     |
| 160.0                                                   | 6'-0"                                       | 5'-6"            | 5'-0"                                 | 5'-0"                      | 5'-0"                                | 5'-6"                                                                                | 4'-0"            | 5'-0"                                 | 5'-0"                      | 5'-0"                                | 5'-6"                                             | 4'-0"            | 5'-0"                                 | 5'-0"                      | 5'-0"                                | 1"                                                                          | 6"     |

\* NOTES:

- ABOVE INDICATED MAX. SLAT SPANS MAY BE USED AS LONG AS ANCHOR SPACING SCHEDULE ON SHEET 15 INDICATE THAT AN ANCHOR SPACING IS AVAILABLE FOR THE CORRESPONDING SLAT SPAN AND A.S.D. DESIGN PRESSURE RATING.
- REQUIRES SIDE RAILS FASTENED WITH 5/16"Ø ULTRACON, 3/8"Ø LDT, 3/8"Ø DYNABOLT SLEEVE OR 3/8"Ø POWER WEDGE BOLT INTO GROUT FILLED CELL CONCRETE BLOCK WITH (C) AT MULLIONS CONNECTION. VALID FOR WALL MOUNTED, TRAPPED MOUNTED, AND BUILD-OUT MOUNTED SLATS.
- MAXIMUM SLAT SPANS FOR INTERMEDIATE LOADS MAY BE DETERMINED BY LINEAR INTERPOLATION BETWEEN END VALUES. NO INTERPOLATION ALLOWED FOR SEPARATION TO GLASS.
- WIND ZONES 1 THRU 4 AS DEFINED BY ASTM E-1996 STANDARD.



| FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)                                                                                                                                                                                  |             |         |         |             |                                                                                                                           |                                                                                   |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|---------|-------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|--|--|
| ©2023 TILTECO, INC.                                                                                                                                                                                                                       |             |         |         |             | 58 mm SLAT END RETENTION ALUMINUM<br>ROLL-UP SHUTTER SYSTEM (L.M.I.)                                                      |                                                                                   |  |  |  |
| <b>TILTECO INC.</b><br>TILLIT TESTING & ENGINEERING COMPANY<br>8355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33186<br>Phone : (305)871-1530 • Fax : (305)871-1531<br>CA-0006719<br>WALTER A. TILLIT Jr. P.E.<br>FLORIDA Lic. # 44167 |             |         |         |             | <b>FOLDING SHUTTER CORP.</b><br>1862 DR. MARTIN LUTHER KING BLVD.<br>WEST PALM BEACH, FL 33404<br>www.foldingshutters.com |                                                                                   |  |  |  |
| REV. NO                                                                                                                                                                                                                                   | DESCRIPTION | DATE    | REV. NO | DESCRIPTION | DATE                                                                                                                      | Y.M.<br>DRAWN BY:<br>7/14/2023<br>DATE:<br>23-107<br>DRAWING No.<br>SHEET13AOF 21 |  |  |  |
| 1                                                                                                                                                                                                                                         | OLD 22-013  | 7/14/23 | 3       | -           | -                                                                                                                         |                                                                                   |  |  |  |
| 2                                                                                                                                                                                                                                         | -           | -       | 4       | -           | -                                                                                                                         |                                                                                   |  |  |  |

SLAT PERFORMANCE CHARTS *Ie'*, *If'* & *Ig'*: (ONLY VALID FOR 3/8" SLIP).  
(SEE SHT. 13 FOR CONCRETE SUBSTRATE , SEE SHT. 13A FOR ADDITIONAL GROUTED BLOCK SUBSTRATE &  
SEE SHEET 17 FOR WOOD SUBSTRATE)  
FOR A GIVEN A.S.D. DESIGN PRESSURE RATING (p.s.f), PRODUCT MOUNT CONDITION INCLUDING ANCHOR TYPE\*

| MAX.<br>A.S.D.<br>DESIGN<br>PRESSURE<br>RATING<br>(psf) | CHART <i>Ie'</i>                                         |                  |                                       |                            |                                      | CHART <i>If'</i>                            |                  |                                       |                            |                                      | CHART <i>Ig'</i>                                                            |        |
|---------------------------------------------------------|----------------------------------------------------------|------------------|---------------------------------------|----------------------------|--------------------------------------|---------------------------------------------|------------------|---------------------------------------|----------------------------|--------------------------------------|-----------------------------------------------------------------------------|--------|
|                                                         | 3/8"Ø KWIK BOLT 3<br>TO GROUT FILLED CELL CONCRETE BLOCK |                  |                                       |                            |                                      | 3/8"Ø SCREW BOLT<br>TO GROUTED BLOCK        |                  |                                       |                            |                                      | USE MAXIMUM POSITIVE<br>A.S.D. LOAD VALUE                                   |        |
|                                                         | MAX. SLAT SPAN<br>"L <sub>MAX.</sub> " (FT)              |                  |                                       |                            |                                      | MAX. SLAT SPAN<br>"L <sub>MAX.</sub> " (FT) |                  |                                       |                            |                                      | REQUIRED MIN.<br>SEPARATION TO<br>GLASS MEASURED<br>TO BACK OF SLAT<br>(in) |        |
|                                                         | WALL<br>MOUNT                                            | TRAPPED<br>MOUNT | BUILD-OUT<br>MOUNT W/<br>Ⓡ, Ⓢ<br>OR Ⓣ | BUILD-OUT<br>MOUNT W/<br>Ⓟ | BUILD-OUT<br>MOUNT W/<br>Ⓢ, Ⓤ<br>& Ⓤ | WALL<br>MOUNT                               | TRAPPED<br>MOUNT | BUILD-OUT<br>MOUNT W/<br>Ⓡ, Ⓢ<br>OR Ⓣ | BUILD-OUT<br>MOUNT W/<br>Ⓟ | BUILD-OUT<br>MOUNT W/<br>Ⓢ, Ⓤ<br>& Ⓤ | ZONE 1, 2<br>& 3                                                            | ZONE 4 |
| 25.0                                                    | 24'-0"                                                   | 24'-0"           | 14'-0"                                | 17'-0"                     | 16'-0"                               | 22'-0"                                      | 24'-0"           | 13'-0"                                | 15'-0"                     | 14'-0"                               | 1"                                                                          | 12"    |
| 30.0                                                    | 22'-0"                                                   | 22'-0"           | 13'-0"                                | 16'-0"                     | 14'-0"                               | 19'-0"                                      | 22'-0"           | 12'-0"                                | 14'-0"                     | 13'-0"                               | 1"                                                                          | 12"    |
| 35.0                                                    | 19'-0"                                                   | 19'-0"           | 12'-0"                                | 14'-6"                     | 13'-0"                               | 17'-0"                                      | 19'-0"           | 11'-0"                                | 12'-6"                     | 11'-6"                               | 1"                                                                          | 12"    |
| 40.0                                                    | 17'-6"                                                   | 17'-6"           | 11'-0"                                | 13'-0"                     | 12'-0"                               | 15'-0"                                      | 17'-6"           | 10'-0"                                | 11'-0"                     | 11'-0"                               | 1"                                                                          | 12"    |
| 45.0                                                    | 16'-0"                                                   | 16'-0"           | 10'-0"                                | 12'-6"                     | 11'-0"                               | 13'-9"                                      | 16'-0"           | 9'-6"                                 | 10'-6"                     | 10'-0"                               | 1"                                                                          | 11"    |
| 50.0                                                    | 15'-0"                                                   | 15'-0"           | 9'-0"                                 | 11'-6"                     | 10'-6"                               | 12'-6"                                      | 15'-0"           | 9'-0"                                 | 10'-0"                     | 9'-0"                                | 1"                                                                          | 11"    |
| 55.0                                                    | 14'-0"                                                   | 14'-0"           | 8'-9"                                 | 10'-6"                     | 10'-0"                               | 11'-3"                                      | 14'-0"           | 8'-6"                                 | 9'-6"                      | 8'-9"                                | 1"                                                                          | 11"    |
| 60.0                                                    | 13'-3"                                                   | 13'-3"           | 8'-6"                                 | 10'-0"                     | 9'-6"                                | 10'-0"                                      | 13'-3"           | 8'-0"                                 | 9'-0"                      | 8'-6"                                | 1"                                                                          | 11"    |
| 65.0                                                    | 12'-6"                                                   | 12'-6"           | 8'-3"                                 | 9'-9"                      | 9'-3"                                | 9'-9"                                       | 12'-6"           | 7'-9"                                 | 8'-9"                      | 7'-11"                               | 1"                                                                          | 11"    |
| 70.0                                                    | 12'-0"                                                   | 12'-0"           | 7'-11"                                | 9'-6"                      | 9'-0"                                | 9'-6"                                       | 12'-0"           | 7'-5"                                 | 8'-6"                      | 7'-9"                                | 1"                                                                          | 11"    |
| 75.0                                                    | 11'-4"                                                   | 11'-4"           | 7'-8"                                 | 9'-3"                      | 8'-6"                                | 9'-3"                                       | 11'-4"           | 7'-2"                                 | 8'-3"                      | 7'-8"                                | 1"                                                                          | 11"    |
| 80.0                                                    | 11'-0"                                                   | 11'-0"           | 7'-6"                                 | 9'-0"                      | 8'-0"                                | 9'-0"                                       | 11'-0"           | 7'-0"                                 | 8'-0"                      | 7'-6"                                | 1"                                                                          | 11"    |
| 85.0                                                    | 10'-6"                                                   | 10'-6"           | 7'-5"                                 | 8'-6"                      | 7'-10"                               | 8'-9"                                       | 10'-6"           | 6'-11"                                | 7'-11"                     | 7'-5"                                | 1"                                                                          | 8"     |
| 90.0                                                    | 10'-2"                                                   | 10'-2"           | 7'-3"                                 | 7'-11"                     | 7'-8"                                | 8'-6"                                       | 10'-2"           | 6'-9"                                 | 7'-9"                      | 7'-3"                                | 1"                                                                          | 8"     |
| 95.0                                                    | 9'-9"                                                    | 9'-9"            | 7'-2"                                 | 7'-8"                      | 7'-7"                                | 8'-3"                                       | 9'-9"            | 6'-8"                                 | 7'-7"                      | 7'-1"                                | 1"                                                                          | 8"     |
| 100.0                                                   | 9'-5"                                                    | 9'-5"            | 7'-0"                                 | 7'-6"                      | 7'-6"                                | 8'-0"                                       | 9'-5"            | 6'-6"                                 | 7'-6"                      | 7'-0"                                | 1"                                                                          | 8"     |
| 105.0                                                   | 9'-2"                                                    | 9'-2"            | 6'-10"                                | 7'-4"                      | 7'-3"                                | 7'-9"                                       | 9'-2"            | 6'-5"                                 | 7'-4"                      | 6'-10"                               | 1"                                                                          | 6"     |
| 110.0                                                   | 9'-0"                                                    | 9'-0"            | 6'-7"                                 | 7'-2"                      | 7'-0"                                | 7'-6"                                       | 9'-0"            | 6'-4"                                 | 7'-2"                      | 6'-8"                                | 1"                                                                          | 6"     |
| 115.0                                                   | 8'-9"                                                    | 8'-9"            | 6'-5"                                 | 7'-0"                      | 6'-11"                               | 7'-2"                                       | 8'-9"            | 6'-3"                                 | 7'-0"                      | 6'-5"                                | 1"                                                                          | 6"     |
| 120.0                                                   | 8'-6"                                                    | 8'-6"            | 6'-3"                                 | 6'-10"                     | 6'-9"                                | 6'-10"                                      | 8'-6"            | 6'-1"                                 | 6'-10"                     | 6'-3"                                | 1"                                                                          | 6"     |
| 125.0                                                   | 8'-3"                                                    | 8'-3"            | 6'-1"                                 | 6'-8"                      | 6'-7"                                | 6'-9"                                       | 8'-3"            | 6'-0"                                 | 6'-8"                      | 6'-1"                                | 1"                                                                          | 6"     |
| 130.0                                                   | 8'-0"                                                    | 8'-0"            | 6'-0"                                 | 6'-6"                      | 6'-6"                                | 6'-9"                                       | 8'-0"            | 5'-11"                                | 6'-6"                      | 6'-0"                                | 1"                                                                          | 6"     |
| 135.0                                                   | 7'-10"                                                   | 7'-10"           | 5'-11"                                | 6'-5"                      | 6'-5"                                | 6'-7"                                       | 7'-10"           | 5'-10"                                | 6'-4"                      | 5'-11"                               | 1"                                                                          | 6"     |
| 140.0                                                   | 7'-6"                                                    | 7'-6"            | 5'-9"                                 | 6'-4"                      | 6'-4"                                | 6'-6"                                       | 7'-6"            | 5'-9"                                 | 6'-2"                      | 5'-9"                                | 1"                                                                          | 6"     |
| 145.0                                                   | 7'-3"                                                    | 7'-3"            | 5'-8"                                 | 6'-3"                      | 6'-3"                                | 6'-5"                                       | 7'-3"            | 5'-8"                                 | 6'-0"                      | 5'-8"                                | 1"                                                                          | 6"     |
| 150.0                                                   | 7'-0"                                                    | 7'-0"            | 5'-7"                                 | 6'-2"                      | 6'-2"                                | 6'-3"                                       | 7'-0"            | 5'-7"                                 | 5'-10"                     | 5'-7"                                | 1"                                                                          | 6"     |
| 155.0                                                   | 6'-6"                                                    | 6'-6"            | 5'-6"                                 | 6'-1"                      | 6'-0"                                | 6'-2"                                       | 6'-6"            | 5'-7"                                 | 5'-8"                      | 5'-7"                                | 1"                                                                          | 6"     |
| 160.0                                                   | 6'-1"                                                    | 6'-1"            | 5'-6"                                 | 6'-0"                      | 6'-0"                                | 6'-0"                                       | 6'-1"            | 5'-6"                                 | 5'-6"                      | 5'-6"                                | 1"                                                                          | 6"     |

- \* **NOTES:**
1. ABOVE INDICATED MAX. SLAT SPANS MAY BE USED AS LONG AS ANCHOR SPACING SCHEDULE ON SHEET 15 INDICATE THAT AN ANCHOR SPACING IS AVAILABLE FOR THE CORRESPONDING SLAT SPAN AND A.S.D. DESIGN PRESSURE RATING.
  2. REQUIRES SIDE RAILS FASTENED WITH 3/8"Ø KWIK BOLT 3 , 3/8"Ø SCREW BOLT INTO GROUT FILLED CELL CONCRETE BLOCK.
  3. MAXIMUM SLAT SPANS FOR INTERMEDIATE LOADS MAY BE DETERMINED BY LINEAR INTERPOLATION BETWEEN END VALUES. NO INTERPOLATION ALLOWED FOR SEPARATION TO GLASS.
  4. WIND ZONES 1 THRU 4 AS DEFINED BY ASTM E-1996 STANDARD.

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

| FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)                                                                                                                                                                                  |             |         |         |             |                                                                                                                           |                                                                                   |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|---------|-------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|--|--|
| ©2023 TILTECO, INC.                                                                                                                                                                                                                       |             |         |         |             | 58 mm SLAT END RETENTION ALUMINUM<br>ROLL-UP SHUTTER SYSTEM (L.M.I.)                                                      |                                                                                   |  |  |  |
| <b>TILTECO INC.</b><br>TILLIT TESTING & ENGINEERING COMPANY<br>6355 N.W. 38th St., Ste. 305, VIRGINIA GARDENS, FL 33166<br>Phone : (305)871-1530 • Fax : (305)871-1531<br>CA-0006719<br>WALTER A. TILLIT Jr. P.E.<br>FLORIDA Lic. # 44167 |             |         |         |             | <b>FOLDING SHUTTER CORP.</b><br>1862 DR. MARTIN LUTHER KING BLVD.<br>WEST PALM BEACH, FL 33404<br>www.foldingshutters.com |                                                                                   |  |  |  |
| REV. NO                                                                                                                                                                                                                                   | DESCRIPTION | DATE    | REV. No | DESCRIPTION | DATE                                                                                                                      | Y.M.<br>DRAWN BY:<br>7/14/2023<br>DATE:<br>23-107<br>DRAWING No.<br>SHEET13BOF 21 |  |  |  |
| 1                                                                                                                                                                                                                                         | OLD 22-013  | 7/14/23 | 3       | -           | -                                                                                                                         |                                                                                   |  |  |  |
| 2                                                                                                                                                                                                                                         | -           | -       | 4       | -           | -                                                                                                                         |                                                                                   |  |  |  |

# MAX. ANCHOR'S SPACING SCHEDULE Va

FOR A GIVEN PRODUCT MOUNTING TYPE, W/ 3/8"Ø CONFLEX , 3/8"Ø KWIK BOLT 3 , 3/8"Ø SCREW BOLT ,  
3/8"Ø POWER WEDGE BOLT , 5/16"Ø ULTRACONS AND 3/8"Ø LDT ANCHORS TO POURED CONCRETE WALL,  
A.S.D. DESIGN PRESSURE RATING & SLAT SPAN RANGE †

## WALL MOUNT

| MAX. A.S.D.<br>DESIGN<br>PRESSURE<br>RATING<br>RANGE (p.s.f.) | SLAT SPAN RANGE |           |           |           |           |            |             |               |
|---------------------------------------------------------------|-----------------|-----------|-----------|-----------|-----------|------------|-------------|---------------|
|                                                               | 0'-4' †         | > 4'-5' † | > 5'-6' † | > 6'-7' † | > 7'-8' † | > 8'-12' † | > 12'-16' † | > 16'-24'-0"† |
| ≤ 25                                                          | 6"              | 6"        | 6"        | 6"        | 4"        | 4"         | 4"          | 4"            |
| >31-40                                                        | 6"              | 6"        | 6"        | 4"        | 4"        | 4"         | 4"          | 4"            |
| >41-60                                                        | 6"              | 6"        | 6"        | 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"              | 4"        | 4"        | 4"        | 4"        | 4"         | 4"          | 4"            |
| >121-140                                                      | 6"              | 4"        | 4"        | 4"        | 4"        | 4"         | 4"          | 4"            |
| >141-160                                                      | 6"              | 4"        | 4"        | 4"        | 4"        | 4"         | 4"          | 4"            |



SLAT SPAN DEFINITION

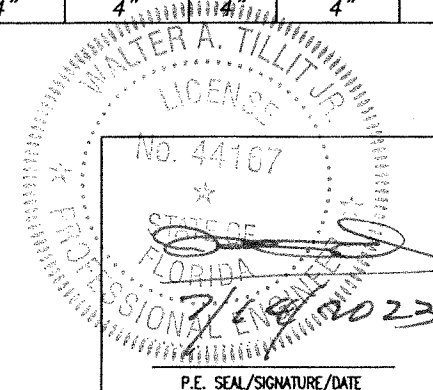
† **NOTE:**  
MAX. SLAT SPAN FOR A  
GIVEN A.S.D. DESIGN  
PRESSURE RATING SHALL  
NEVER EXCEED MAX. SLAT  
SPAN INDICATED ON SLAT  
PERFORMANCE CHART ON  
SHEET 13.

## TRAPPED MOUNT

| MAX. A.S.D.<br>DESIGN<br>PRESSURE<br>RATING<br>RANGE (p.s.f.) | SLAT SPAN RANGE |           |           |           |           |            |             |               |
|---------------------------------------------------------------|-----------------|-----------|-----------|-----------|-----------|------------|-------------|---------------|
|                                                               | 0'-4' †         | > 4'-5' † | > 5'-6' † | > 6'-7' † | > 7'-8' † | > 8'-12' † | > 12'-16' † | > 16'-24'-0"† |
| ≤ 25                                                          | 6"              | 6"        | 6"        | 6"        | 4"        | 4"         | 4"          | 4"            |
| >31-40                                                        | 6"              | 6"        | 6"        | 4"        | 4"        | 4"         | 4"          | 4"            |
| >41-60                                                        | 6"              | 6"        | 6"        | 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"              | 4"        | 4"        | 4"        | 4"        | 4"         | 4"          | 4"            |
| >121-140                                                      | 6"              | 4"        | 4"        | 4"        | 4"        | 4"         | 4"          | 4"            |
| >141-160                                                      | 6"              | 4"        | 4"        | 4"        | 4"        | 4"         | 4"          | 4"            |

## BUILD-OUT MOUNT

| MAX. A.S.D.<br>DESIGN<br>PRESSURE<br>RATING<br>RANGE (p.s.f.) | SLAT SPAN RANGE |    |        |           |    |        |           |    |        |           |    |        |           |    |        |            |    |        |             |    |        |                 |    |        |
|---------------------------------------------------------------|-----------------|----|--------|-----------|----|--------|-----------|----|--------|-----------|----|--------|-----------|----|--------|------------|----|--------|-------------|----|--------|-----------------|----|--------|
|                                                               | 0'-4' †         |    |        | > 4'-5' † |    |        | > 5'-6' † |    |        | > 6'-7' † |    |        | > 7'-8' † |    |        | > 8'-12' † |    |        | > 12'-16' † |    |        | > 16' - 24'-0"† |    |        |
|                                                               | R.Q.T           | P  | S.U.Uh | R.Q.T     | P  | S.U.Uh | R.Q.T     | P  | S.U.Uh | R.Q.T     | P  | S.U.Uh | R.Q.T     | P  | S.U.Uh | R.Q.T      | P  | S.U.Uh | R.Q.T       | P  | S.U.Uh | R.Q.T           | P  | S.U.Uh |
| ≤ 25                                                          | 6"              | 6" | 6"     | 6"        | 6" | 6"     | 6"        | 6" | 6"     | 6"        | 6" | 6"     | 4"        | 4" | 4"     | 4"         | 4" | 4"     | 4"          | 4" | 4"     | 4"              | 4" | 4"     |
| >31-40                                                        | 6"              | 6" | 6"     | 6"        | 6" | 6"     | 6"        | 6" | 6"     | 4"        | 4" | 4"     | 4"        | 4" | 4"     | 4"         | 4" | 4"     | 4"          | 4" | 4"     | 4"              | 4" | 4"     |
| >41-60                                                        | 6"              | 6" | 6"     | 6"        | 6" | 6"     | 6"        | 6" | 6"     | 4"        | 4" | 4"     | 4"        | 4" | 4"     | 4"         | 4" | 4"     | 4"          | 4" | 4"     | 4"              | 4" | 4"     |
| >61-80                                                        | 6"              | 6" | 6"     | 6"        | 6" | 6"     | 4"        | 4" | 4"     | 4"        | 4" | 4"     | 4"        | 4" | 4"     | 4"         | 4" | 4"     | 4"          | 4" | 4"     | 4"              | 4" | 4"     |
| >81-105                                                       | 6"              | 6" | 6"     | 6"        | 6" | 6"     | 4"        | 4" | 4"     | 4"        | 4" | 4"     | 4"        | 4" | 4"     | 4"         | 4" | 4"     | 4"          | 4" | 4"     | 4"              | 4" | 4"     |
| >106-120                                                      | 6"              | 6" | 6"     | 4"        | 4" | 4"     | 4"        | 4" | 4"     | 4"        | 4" | 4"     | 4"        | 4" | 4"     | 4"         | 4" | 4"     | 4"          | 4" | 4"     | 4"              | 4" | 4"     |
| >121-140                                                      | 6"              | 6" | 6"     | 4"        | 4" | 4"     | 4"        | 4" | 4"     | 4"        | 4" | 4"     | 4"        | 4" | 4"     | 4"         | 4" | 4"     | 4"          | 4" | 4"     | 4"              | 4" | 4"     |
| >141-160                                                      | 6"              | 6" | 6"     | 4"        | 4" | 4"     | 4"        | 4" | 4"     | 4"        | 4" | 4"     | 4"        | 4" | 4"     | 4"         | 4" | 4"     | 4"          | 4" | 4"     | 4"              | 4" | 4"     |



| FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)                                                                                                                                                                                  |             |         |         |             |      |                                                                                                                           |  |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|---------|-------------|------|---------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| ©2023 TILTECO, INC.                                                                                                                                                                                                                       |             |         |         |             |      | 58 mm SLAT END RETENTION ALUMINUM<br>ROLL-UP SHUTTER SYSTEM (L.M.I.)                                                      |  |  |  |  |  |
| <b>TILTECO INC.</b><br>TILLIT TESTING & ENGINEERING COMPANY<br>6355 N.W. 34th St., Ste. 305, VIRGINIA GARDENS, FL 33166<br>Phone : (305)871-1530 • Fax : (305)871-1531<br>CA-0006719<br>WALTER A. TILLIT Jr. P.E.<br>FLORIDA Lic. # 44167 |             |         |         |             |      | <b>FOLDING SHUTTER CORP.</b><br>1862 DR. MARTIN LUTHER KING BLVD.<br>WEST PALM BEACH, FL 33404<br>www.foldingshutters.com |  |  |  |  |  |
| REV. NO                                                                                                                                                                                                                                   | DESCRIPTION | DATE    | REV. No | DESCRIPTION | DATE | Y.M.<br>DRAWN BY:<br>7/14/2023<br>DATE:<br>23-107<br>DRAWING No.<br>SHEET 14 OF 21                                        |  |  |  |  |  |
| 1                                                                                                                                                                                                                                         | OLD 22-013  | 7/14/23 | 3       | -           | -    |                                                                                                                           |  |  |  |  |  |
| 2                                                                                                                                                                                                                                         | -           | -       | 4       | -           | -    |                                                                                                                           |  |  |  |  |  |

MAX. ANCHOR'S SPACING SCHEDULE  $V_a'$  FOR A GIVEN SHUTTER MOUNTING TYPE

W/ 3/8"Ø LDT, 3/8"Ø POWER WEDGE BOLT, 3/8"Ø DYNABOLT SLEEVE , 5/16"Ø ULTRACON,  
3/8"Ø KWIK BOLT 3 & 3/8"Ø SCREW BOLT ANCHOR TO GROUT FILLED CELL CONCRETE BLOCK WALL

A.S.D. DESIGN LOAD & SLAT SPAN RANGE †

WALL MOUNT

| MAXIMUM<br>A.S.D.<br>DESIGN<br>PRESSURE<br>RATING<br>RANGE(psf) | SLAT SPAN RANGE |           |           |           |           |            |            |               |
|-----------------------------------------------------------------|-----------------|-----------|-----------|-----------|-----------|------------|------------|---------------|
|                                                                 | 0'-4' †         | > 4'-5' † | > 5'-6' † | > 6'-7' † | > 7'-8' † | > 8'-12' † | >12'-16' † | >16'-24'-0" † |
| ≤ 25                                                            | 6"              | 6"        | 6"        | 6"        | 4"        | 4"         | 4"         | 4"            |
| >31-40                                                          | 6"              | 6"        | 6"        | 4"        | 4"        | 4"         | 4"         | 4"            |
| >41-60                                                          | 6"              | 6"        | 6"        | 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"              | 4"        | 4"        | 4"        | 4"        | 4"         | 4"         | 4"            |
| >121-140                                                        | 6"              | 4"        | 4"        | 4"        | 4"        | 4"         | 4"         | 4"            |
| >141-160                                                        | 6"              | 4"        | 4"        | 4"        | 4"        | 4"         | 4"         | 4"            |



SLAT SPAN DEFINITION

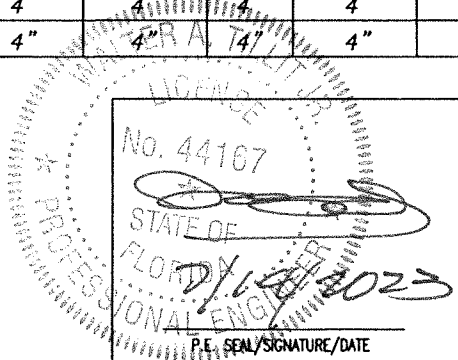
† NOTE:  
MAX. SLAT SPAN FOR A  
GIVEN A.S.D. DESIGN LOAD  
SHALL NEVER EXCEED MAX.  
SLAT SPAN INDICATED ON  
SLAT PERFORMANCE CHARTS  
ON SHEETS 13A, 13B.

TRAPPED MOUNT

| MAXIMUM<br>A.S.D.<br>DESIGN<br>PRESSURE<br>RATING<br>RANGE(psf) | SLAT SPAN RANGE |           |           |           |           |            |            |               |
|-----------------------------------------------------------------|-----------------|-----------|-----------|-----------|-----------|------------|------------|---------------|
|                                                                 | 0'-4' †         | > 4'-5' † | > 5'-6' † | > 6'-7' † | > 7'-8' † | > 8'-12' † | >12'-16' † | >16'-24'-0" † |
| ≤ 25                                                            | 6"              | 6"        | 6"        | 6"        | 4"        | 4"         | 4"         | 4"            |
| >31-40                                                          | 6"              | 6"        | 6"        | 6"        | 4"        | 4"         | 4"         | 4"            |
| >41-60                                                          | 6"              | 6"        | 6"        | 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"              | 4"        | 4"        | 4"        | 4"        | 4"         | 4"         | 4"            |
| >121-140                                                        | 6"              | 4"        | 4"        | 4"        | 4"        | 4"         | 4"         | 4"            |
| >141-160                                                        | 6"              | 4"        | 4"        | 4"        | 4"        | 4"         | 4"         | 4"            |

BUILD-OUT MOUNT

| MAX. A.S.D.<br>DESIGN<br>PRESSURE<br>RATING<br>RANGE (p.s.f.) | SLAT SPAN RANGE |    |       |           |    |       |           |    |       |           |    |       |           |    |       |            |    |       |             |    |       |                 |    |       |
|---------------------------------------------------------------|-----------------|----|-------|-----------|----|-------|-----------|----|-------|-----------|----|-------|-----------|----|-------|------------|----|-------|-------------|----|-------|-----------------|----|-------|
|                                                               | 0'-4' †         |    |       | > 4'-5' † |    |       | > 5'-6' † |    |       | > 6'-7' † |    |       | > 7'-8' † |    |       | > 8'-12' † |    |       | > 12'-16' † |    |       | >16' - 24'-0" † |    |       |
|                                                               | R.Q.T           | P  | S.U.U | R.Q.T     | P  | S.U.U | R.Q.T     | P  | S.U.U | R.Q.T     | P  | S.U.U | R.Q.T     | P  | S.U.U | R.Q.T      | P  | S.U.U | R.Q.T       | P  | S.U.U | R.Q.T           | P  | S.U.U |
| ≤ 25                                                          | 6"              | 6" | 6"    | 6"        | 6" | 6"    | 6"        | 6" | 6"    | 6"        | 6" | 6"    | 4"        | 4" | 4"    | 4"         | 4" | 4"    | 4"          | 4" | 4"    | 4"              | 4" | 4"    |
| >31-40                                                        | 6"              | 6" | 6"    | 6"        | 6" | 6"    | 6"        | 6" | 6"    | 4"        | 4" | 4"    | 4"        | 4" | 4"    | 4"         | 4" | 4"    | 4"          | 4" | 4"    | 4"              | 4" | 4"    |
| >41-60                                                        | 6"              | 6" | 6"    | 6"        | 6" | 6"    | 6"        | 6" | 6"    | 4"        | 4" | 4"    | 4"        | 4" | 4"    | 4"         | 4" | 4"    | 4"          | 4" | 4"    | 4"              | 4" | 4"    |
| >61-80                                                        | 6"              | 6" | 6"    | 6"        | 6" | 6"    | 4"        | 4" | 4"    | 4"        | 4" | 4"    | 4"        | 4" | 4"    | 4"         | 4" | 4"    | 4"          | 4" | 4"    | 4"              | 4" | 4"    |
| >81-105                                                       | 6"              | 6" | 6"    | 6"        | 6" | 6"    | 4"        | 4" | 4"    | 4"        | 4" | 4"    | 4"        | 4" | 4"    | 4"         | 4" | 4"    | 4"          | 4" | 4"    | 4"              | 4" | 4"    |
| >106-120                                                      | 6"              | 6" | 6"    | 4"        | 4" | 4"    | 4"        | 4" | 4"    | 4"        | 4" | 4"    | 4"        | 4" | 4"    | 4"         | 4" | 4"    | 4"          | 4" | 4"    | 4"              | 4" | 4"    |
| >121-140                                                      | 6"              | 6" | 6"    | 4"        | 4" | 4"    | 4"        | 4" | 4"    | 4"        | 4" | 4"    | 4"        | 4" | 4"    | 4"         | 4" | 4"    | 4"          | 4" | 4"    | 4"              | 4" | 4"    |
| >141-160                                                      | 6"              | 6" | 6"    | 4"        | 4" | 4"    | 4"        | 4" | 4"    | 4"        | 4" | 4"    | 4"        | 4" | 4"    | 4"         | 4" | 4"    | 4"          | 4" | 4"    | 4"              | 4" | 4"    |



| FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)                                                                                                                                                                       |             |         |         |             |      |                                                                                                                           |  |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|---------|-------------|------|---------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| ©2023 TILTECO, INC.                                                                                                                                                                                                            |             |         |         |             |      | 58 mm SLAT END RETENTION ALUMINUM ROLL-UP SHUTTER SYSTEM (L.M.I.)                                                         |  |  |  |  |  |
| <b>TILTECO INC.</b><br>TILLIT TESTING & ENGINEERING COMPANY<br>6355 N.W. 38th St., Ste. 305, MIRAMAR, FL 33168<br>Phone : (305)871-1530 Fax : (305)871-1531<br>CA-0006719<br>WALTER A. TILLIT Jr. P.E.<br>FLORIDA Lic. # 44167 |             |         |         |             |      | <b>FOLDING SHUTTER CORP.</b><br>1862 DR. MARTIN LUTHER KING BLVD.<br>WEST PALM BEACH, FL 33404<br>www.foldingshutters.com |  |  |  |  |  |
| REV. NO                                                                                                                                                                                                                        | DESCRIPTION | DATE    | REV. NO | DESCRIPTION | DATE | Y.M.<br>DRAWN BY:<br>7/14/2023<br>DATE:<br>23-107<br>DRAWING No.<br>SHEET 15 OF 21                                        |  |  |  |  |  |
| 1                                                                                                                                                                                                                              | OLD 22-013  | 7/14/23 | 3       | -           | -    |                                                                                                                           |  |  |  |  |  |
| 2                                                                                                                                                                                                                              | -           | -       | 4       | -           | -    |                                                                                                                           |  |  |  |  |  |

**SCHEDULE V<sub>C</sub>:**  
**V<sub>x</sub> FORCES (Lb/FT) & V<sub>y</sub> 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<br>A.S.D.<br>DESIGN<br>PRESSURE<br>RATING<br>(psf) | SLAT SPAN RANGE |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
|------------------------------------------------------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|                                                            | 0'-4'           |                | > 4'-5'        |                | > 5'-6'        |                | > 6'-7'        |                | > 7'-8'        |                | > 8'-12'       |                | > 12'-16'      |                | > 16'-20'      |                | > 20'-24'      |                |
|                                                            | V <sub>x</sub>  | V <sub>y</sub> | V <sub>x</sub> | V <sub>y</sub> | V <sub>x</sub> | V <sub>y</sub> | V <sub>x</sub> | V <sub>y</sub> | V <sub>x</sub> | V <sub>y</sub> | V <sub>x</sub> | V <sub>y</sub> | V <sub>x</sub> | V <sub>y</sub> | V <sub>x</sub> | V <sub>y</sub> | V <sub>x</sub> | V <sub>y</sub> |
| ≤ 25                                                       | 0               | 50             | 0              | 63             | 0              | 75             | 0              | 88             | 0              | 100            | 539            | 150            | 947            | 200            | 1332           | 250            | 1716           | 300            |
| >31-40                                                     | 0               | 80             | 0              | 100            | 0              | 120            | 0              | 140            | 242            | 160            | 935            | 240            | 1514           | 320            | 1655           | 340            | 1834           | 350            |
| >41-60                                                     | 0               | 120            | 0              | 150            | 0              | 180            | 266            | 210            | 551            | 240            | 1441           | 360            | 1643           | 390            | 1697           | 360            | -              | -              |
| >61-80                                                     | 0               | 160            | 0              | 200            | 120            | 240            | 520            | 280            | 848            | 320            | 1931           | 480            | 1688           | 420            | -              | -              | -              | -              |
| >81-105                                                    | 0               | 210            | 0              | 263            | 381            | 315            | 828            | 368            | 1209           | 420            | 1557           | 473            | -              | -              | -              | -              | -              | -              |
| >106-120                                                   | 0               | 240            | 0              | 300            | 532            | 360            | 1008           | 420            | 1421           | 480            | -              | -              | -              | -              | -              | -              | -              | -              |
| >121-140                                                   | 0               | 280            | 78             | 350            | 730            | 420            | 1245           | 490            | 1700           | 560            | -              | -              | -              | -              | -              | -              | -              | -              |
| >141-160                                                   | 0               | 320            | 241            | 400            | 925            | 480            | 1479           | 560            | 1975           | 640            | -              | -              | -              | -              | -              | -              | -              | -              |



**SLAT SPAN DEFINITION**

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

SIDE RAIL

V<sub>y</sub>

V<sub>x</sub>

V<sub>y</sub>

WALTER A. TILLIT JR.

LICENSE

No. 44167

STATE OF FLORIDA

PROFESSIONAL ENGINEER

7/14/2023

P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)

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

58 mm SLAT END RETENTION ALUMINUM ROLL-UP SHUTTER SYSTEM (L.M.I.)

FOLDING SHUTTER CORP.

1862 DR. MARTIN LUTHER KING BLVD.  
WEST PALM BEACH, FL 33404  
www.foldingshutters.com

| REV. NO | DESCRIPTION | DATE    | REV. No | DESCRIPTION | DATE |
|---------|-------------|---------|---------|-------------|------|
| 1       | OLD 22-013  | 7/14/23 | 3       | -           | -    |
| 2       | -           | -       | 4       | -           | -    |

Y.M.  
DRAWN BY:

7/14/2023  
DATE:

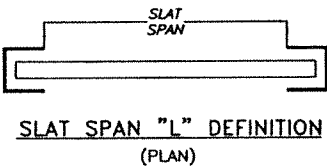
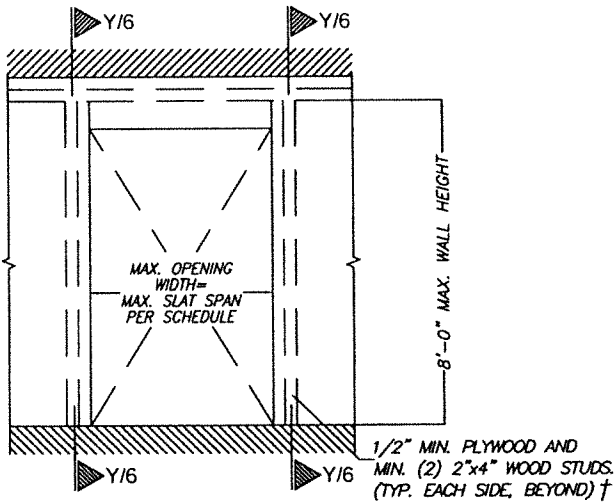
23-107  
DRAWING No.

SHEET 16 OF 21

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

| 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 ULTRACON ANCHOR                                      |                                          |                                        |                                        |                                                                 |               |
| MAXIMUM A.S.D. DESIGN PRESSURE RATING (psf)                 | MAX. SLAT SPAN "L <sub>MAX.</sub> " (ft) |                                        |                                        | REQUIRED MIN. SEPARATION TO GLASS MEASURED TO BACK OF SLAT (in) |               |
|                                                             | WALL MOUNT<br>(SEE NOTES Δ)              | BUILD-OUT MOUNT W/ U<br>(SEE NOTES ) Δ | BUILD-OUT MOUNT W/ U1<br>(SEE NOTES Δ) | WIND ZONES 1-3 Δ                                                | WIND ZONE 4 Δ |
| 30.0 *                                                      | 12'-0"                                   | 10'-0"                                 | 11'-0"                                 | 1"                                                              | 11"           |
| 35.0 **                                                     | 12'-0"                                   | 10'-0"                                 | 11'-0"                                 | 1"                                                              | 11"           |
| 40.0 **                                                     | 11'-0"                                   | 9'-0"                                  | 10'-0"                                 | 1"                                                              | 11"           |
| 45.0 ***                                                    | 11'-0"                                   | 9'-0"                                  | 10'-0"                                 | 1"                                                              | 11"           |
| 50.0 ***                                                    | 11'-0"                                   | 9'-0"                                  | 10'-0"                                 | 1"                                                              | 11"           |
| 55.0 ***                                                    | 10'-0"                                   | 8'-0"                                  | 9'-0"                                  | 1"                                                              | 8"            |
| 60.0 ***                                                    | 10'-0"                                   | 8'-0"                                  | 9'-0"                                  | 1"                                                              | 8"            |



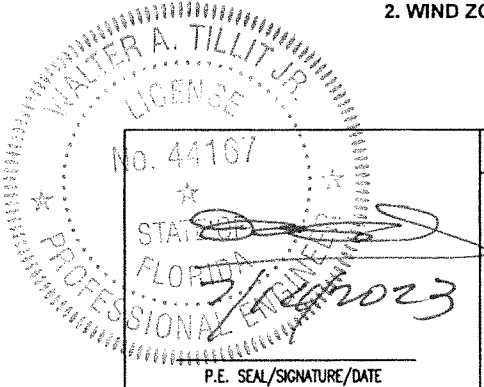
MAXIMUM A.S.D. DESIGN LOAD VS WOOD GRADE SCHEDULE:

- \* 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:

1. 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".
2. WIND ZONES 1 , 2 , 3 & 4 AS DEFINED BY ASTM STANDARD E-1996.

INSTALLATIONS INTO WOOD FRAME BUILDINGS



| FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)                                                                                                                                                       |             |         |                                                                                           |             |                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|-------------------------------------------------------------------------------------------|-------------|--------------------|
| ©2023 TILTECO, INC.                                                                                                                                                                                            |             |         | 58 mm SLAT END RETENTION ALUMINUM ROLL-UP SHUTTER SYSTEM (L.M.I.)                         |             | Y.M. DRAWN BY:     |
| TILTECO INC.                                                                                                                                                                                                   |             |         | FOLDING SHUTTER CORP.                                                                     |             | 7/14/2023 DATE:    |
| TILLIT TESTING & ENGINEERING COMPANY<br>8355 N.W. 36th St., Ste. 305, VIRGINIA BEACH, FL 33168<br>Phone : (305)871-1530 Fax : (305)871-1531<br>CA-0006719<br>WALTER A. TILLIT Jr. P.E.<br>FLORIDA Lic. # 44167 |             |         | 1862 DR. MARTIN LUTHER KING BLVD.<br>WEST PALM BEACH, FL 33404<br>www.foldingshutters.com |             | 23-107 DRAWING No. |
| REV. NO                                                                                                                                                                                                        | DESCRIPTION | DATE    | REV. No                                                                                   | DESCRIPTION | DATE               |
| 1                                                                                                                                                                                                              | OLD 22-013  | 7/14/23 | 3                                                                                         | -           | -                  |
| 2                                                                                                                                                                                                              | -           | -       | 4                                                                                         | -           | -                  |
|                                                                                                                                                                                                                |             |         |                                                                                           |             | SHEET 17 OF 21     |

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 INSTALLATION & GENERAL NOTE 7 ON SHEET 1 FOR ANCHOR SPEC'S.

WALL MOUNT TO MIN. 2"x4" WOOD STUD WITH MINIMUM 1/2" PLYWOOD  
(SEE DETAIL 1 ON SHEET 17)

| WOOD GRADE                        | MAXIMUM<br>A.S.D. DESIGN<br>PRESSURE<br>RATING RANGE<br>(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<br>(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"             |
|                                   | 60                                                            | 6"              | 6"           | 5 3/4"       | 5 1/4"       | 3 3/4"       | 3"            | 3"             |
| DOUGLAS-FIR-SOUTH<br>(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<br>(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 17)

| WOOD GRADE                        | MAXIMUM<br>A.S.D. DESIGN<br>PRESSURE<br>RATING RANGE<br>(psf) | SLAT SPAN RANGE         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |
|-----------------------------------|---------------------------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
|                                   |                                                               | 0'-4' *                 |                         | > 4'-5' *               |                         | > 5'-6' *               |                         | > 6'-7' *               |                         | > 7'-9' *               |                         | > 9'-10' *              |                         | > 10' to 12' *          |                         |
|                                   |                                                               | BUILD-OUT<br>MOUNT W/ U | BUILD-OUT<br>MOUNT W/ U | BUILD-OUT<br>MOUNT W/ U | BUILD-OUT<br>MOUNT W/ U | BUILD-OUT<br>MOUNT W/ U | BUILD-OUT<br>MOUNT W/ U | BUILD-OUT<br>MOUNT W/ U | BUILD-OUT<br>MOUNT W/ U | BUILD-OUT<br>MOUNT W/ U | BUILD-OUT<br>MOUNT W/ U | BUILD-OUT<br>MOUNT W/ U | BUILD-OUT<br>MOUNT W/ U | BUILD-OUT<br>MOUNT W/ U | BUILD-OUT<br>MOUNT W/ U |
| SOUTHERN PINE #2<br>(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"                      |
|                                   | 60                                                            | 6"                      | 6"                      | 6"                      | 6"                      | 6"                      | 6"                      | 5 3/4"                  | 5 3/4"                  | 4"                      | 4"                      | 3"                      | 3"                      | 3"                      | 3"                      |
| DOUGLAS-FIR-SOUTH<br>(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<br>(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 17.

WALTER A. TILLIT JR.  
LICENSE  
No. 44167  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
3/14/2023  
P.E. SEAL/SIGNATURE/DATE

| FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)                                                                                                                                                                                  |             |         |         |             |                                                                                                                           |                                                                  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|---------|-------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--|--|--|
| ©2023 TILTECO, INC.                                                                                                                                                                                                                       |             |         |         |             | 58 mm SLAT END RETENTION ALUMINUM<br>ROLL-UP SHUTTER SYSTEM (L.M.I.)                                                      |                                                                  |  |  |  |
| <b>TILTECO INC.</b><br>TILLIT TESTING & ENGINEERING COMPANY<br>8355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166<br>Phone : (305)871-1530 • Fax : (305)871-1531<br>CA-0006719<br>WALTER A. TILLIT Jr. P.E.<br>FLORIDA Lic. # 44167 |             |         |         |             | <b>FOLDING SHUTTER CORP.</b><br>1862 DR. MARTIN LUTHER KING BLVD.<br>WEST PALM BEACH, FL 33404<br>www.foldingshutters.com |                                                                  |  |  |  |
| REV. NO                                                                                                                                                                                                                                   | DESCRIPTION | DATE    | REV. No | DESCRIPTION | DATE                                                                                                                      | Y.M.<br>DRAWN BY:<br>7/14/2023<br>DATE:<br>23-107<br>DRAWING No. |  |  |  |
| 1                                                                                                                                                                                                                                         | OLD 22-013  | 7/14/23 | 3       | -           | -                                                                                                                         | SHEET 18 OF 21                                                   |  |  |  |
| 2                                                                                                                                                                                                                                         | -           | -       | 4       | -           | -                                                                                                                         |                                                                  |  |  |  |

SCHEDULE 1a  
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 MAX. MULLION  
SPACING (ft) \*

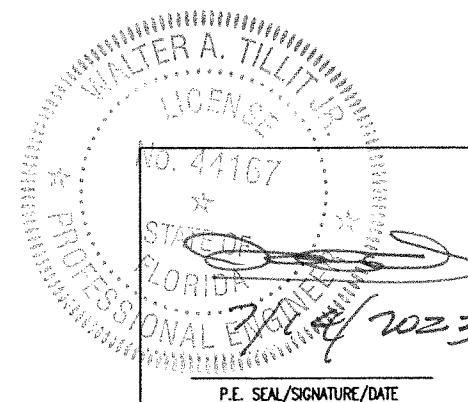
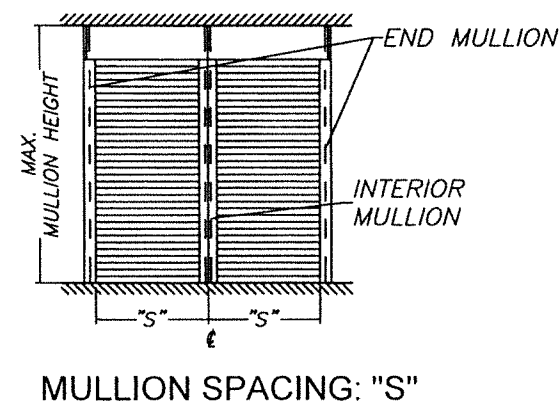
| MAX.<br>A.S.D.<br>DESIGN<br>PRESSURE<br>RATING<br>(p.s.f.) | MAXIMUM<br>MULLION<br>SPACING<br>(ft) * | MAXIMUM MULLION SPAN (FT) |          |                        |          |                        |          |                        |          |                      |                      |
|------------------------------------------------------------|-----------------------------------------|---------------------------|----------|------------------------|----------|------------------------|----------|------------------------|----------|----------------------|----------------------|
|                                                            |                                         | Ⓜ 4"x6"x1/4" MULLION      |          |                        |          | Ⓜ 4"x8"x1/4" MULLION   |          |                        |          | Ⓜ 4"x4"x1/4" MULLION | Ⓜ 4"x4"x1/8" MULLION |
|                                                            |                                         | ORIENTATION #2<br>(⇐)†    |          | ORIENTATION #1<br>(⇐)† |          | ORIENTATION #2<br>(⇐)† |          | ORIENTATION #1<br>(⇐)† |          | INTERIOR             | INTERIOR             |
|                                                            |                                         | END                       | INTERIOR | END                    | INTERIOR | END                    | INTERIOR | END                    | INTERIOR |                      |                      |
| 25.0                                                       | 24'-0"                                  | -                         | 8'-6"    | -                      | 10'-6"   | 9'-4"                  | 9'-3"    | -                      | 12'-0"   | -                    | -                    |
| 30.0                                                       | 22'-0"                                  | -                         | 8'-2"    | -                      | 10'-2"   | 9'-3"                  | 8'-11"   | -                      | 12'-0"   | -                    | -                    |
| 35.0                                                       | 19'-0"                                  | -                         | 8'-2"    | -                      | 10'-2"   | 9'-5"                  | 8'-11"   | -                      | 12'-0"   | -                    | -                    |
| 40.0                                                       | 17'-6"                                  | -                         | 8'-0"    | -                      | 10'-0"   | 9'-4"                  | 8'-10"   | -                      | 11'-10"  | -                    | -                    |
| 45.0                                                       | 16'-0"                                  | -                         | 8'-0"    | -                      | 9'-10"   | 9'-5"                  | 8'-8"    | -                      | 12'-0"   | -                    | -                    |
| 50.0                                                       | 15'-0"                                  | -                         | -        | -                      | 9'-9"    | 9'-5"                  | 8'-7"    | -                      | 12'-0"   | -                    | -                    |
| 55.0                                                       | 14'-0"                                  | -                         | -        | -                      | 9'-8"    | 9'-6"                  | 8'-6"    | -                      | 12'-0"   | -                    | -                    |
| 60.0                                                       | 13'-3"                                  | -                         | -        | -                      | 9'-9"    | 9'-6"                  | 8'-5"    | -                      | 12'-0"   | -                    | -                    |
| 65.0                                                       | 12'-6"                                  | -                         | -        | -                      | 9'-6"    | 9'-1"                  | 8'-4"    | -                      | 12'-0"   | -                    | -                    |
| 70.0                                                       | 12'-0"                                  | -                         | -        | -                      | 9'-5"    | 9'-4"                  | 8'-3"    | -                      | 11'-10"  | -                    | -                    |
| 75.0                                                       | 11'-4"                                  | -                         | -        | -                      | 9'-4"    | 9'-7"                  | 8'-2"    | -                      | 11'-10"  | -                    | -                    |
| 80.0                                                       | 11'-0"                                  | -                         | -        | -                      | 9'-3"    | 9'-4"                  | 8'-1"    | -                      | 11'-9"   | -                    | -                    |
| 85.0                                                       | 10'-6"                                  | -                         | -        | -                      | 9'-2"    | 9'-4"                  | 8'-0"    | -                      | 11'-8"   | -                    | -                    |
| 90.0                                                       | 10'-2"                                  | -                         | -        | -                      | 9'-1"    | 9'-6"                  | 8'-0"    | -                      | 11'-7"   | -                    | -                    |
| 95.0                                                       | 9'-9"                                   | -                         | -        | -                      | 9'-1"    | 9'-2"                  | 8'-0"    | -                      | 11'-6"   | -                    | -                    |
| 100.0                                                      | 9'-5"                                   | -                         | -        | -                      | 9'-0"    | 9'-4"                  | -        | -                      | 11'-5"   | -                    | -                    |
| 105.0                                                      | 9'-2"                                   | -                         | -        | -                      | 9'-0"    | 9'-9"                  | -        | -                      | 11'-4"   | -                    | -                    |
| 110.0                                                      | 9'-0"                                   | -                         | -        | -                      | 8'-10"   | 9'-3"                  | -        | -                      | 11'-3"   | -                    | -                    |
| 115.0                                                      | 8'-9"                                   | -                         | -        | -                      | 8'-10"   | 9'-0"                  | -        | -                      | 11'-2"   | -                    | -                    |
| 120.0                                                      | 8'-6"                                   | -                         | -        | -                      | 8'-10"   | 9'-3"                  | -        | -                      | 11'-0"   | -                    | -                    |
| 125.0                                                      | 8'-3"                                   | -                         | -        | -                      | 8'-9"    | 9'-6"                  | -        | -                      | 11'-0"   | -                    | -                    |
| 130.0                                                      | 8'-0"                                   | -                         | -        | -                      | 8'-9"    | 9'-4"                  | -        | -                      | 11'-0"   | -                    | -                    |
| 135.0                                                      | 7'-10"                                  | -                         | -        | -                      | 8'-8"    | 9'-1"                  | -        | -                      | 11'-0"   | -                    | -                    |
| 140.0                                                      | 7'-6"                                   | 8'-2"                     | -        | -                      | 8'-8"    | 9'-8"                  | -        | -                      | 11'-0"   | -                    | -                    |
| 145.0                                                      | 7'-3"                                   | 8'-2"                     | -        | -                      | 8'-8"    | 9'-9"                  | -        | -                      | 11'-0"   | -                    | -                    |
| 150.0                                                      | 7'-0"                                   | 8'-0"                     | -        | -                      | 8'-8"    | 9'-8"                  | -        | -                      | 11'-0"   | -                    | -                    |
| 155.0                                                      | 6'-6"                                   | 8'-0"                     | -        | -                      | 8'-8"    | 9'-5"                  | -        | -                      | 11'-0"   | -                    | -                    |
| 160.0                                                      | 6'-1"                                   | 8'-0"                     | -        | -                      | 8'-8"    | 9'-11"                 | -        | -                      | 11'-0"   | -                    | -                    |

SCHEDULE 2a  
WALL MOUNTING  
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.<br>A.S.D.<br>DESIGN<br>PRESSURE<br>RATING<br>(p.s.f.) | MAXIMUM<br>MULLION<br>SPACING<br>(ft) * | MAXIMUM MULLION SPAN (FT) |          |                        |          |                        |          |                        |          |                      |                      |
|------------------------------------------------------------|-----------------------------------------|---------------------------|----------|------------------------|----------|------------------------|----------|------------------------|----------|----------------------|----------------------|
|                                                            |                                         | Ⓜ 4"x6"x1/4" MULLION      |          |                        |          | Ⓜ 4"x8"x1/4" MULLION   |          |                        |          | Ⓜ 4"x4"x1/4" MULLION | Ⓜ 4"x4"x1/8" MULLION |
|                                                            |                                         | ORIENTATION #2<br>(⇐)†    |          | ORIENTATION #1<br>(⇐)† |          | ORIENTATION #2<br>(⇐)† |          | ORIENTATION #1<br>(⇐)† |          | INTERIOR             | INTERIOR             |
|                                                            |                                         | END                       | INTERIOR | END                    | INTERIOR | END                    | INTERIOR | END                    | INTERIOR |                      |                      |
| 25.0                                                       | 24'-0"                                  | 7'-5"                     | 8'-2"    | 6'-0"                  | 10'-6"   | 9'-4"                  | 9'-3"    | 6'-6"                  | 12'-0"   | 7'-7"                | 6'-3"                |
| 30.0                                                       | 22'-0"                                  | 7'-4"                     | 8'-2"    | 5'-10"                 | 10'-2"   | 9'-3"                  | 8'-11"   | 6'-5"                  | 12'-0"   | 7'-4"                | 6'-0"                |
| 35.0                                                       | 19'-0"                                  | 7'-6"                     | 8'-2"    | 6'-1"                  | 10'-2"   | 9'-5"                  | 8'-11"   | 6'-6"                  | 12'-0"   | 7'-4"                | 6'-0"                |
| 40.0                                                       | 17'-6"                                  | 7'-5"                     | 8'-0"    | 6'-0"                  | 10'-0"   | 9'-4"                  | 8'-10"   | 6'-8"                  | 11'-10"  | 7'-3"                | 5'-11"               |
| 45.0                                                       | 16'-0"                                  | 7'-6"                     | 8'-0"    | 6'-0"                  | 9'-10"   | 9'-5"                  | 8'-8"    | 6'-6"                  | 12'-0"   | 7'-2"                | 5'-10"               |
| 50.0                                                       | 15'-0"                                  | 7'-5"                     | 7'-11"   | 6'-0"                  | 9'-9"    | 9'-5"                  | 8'-7"    | 6'-6"                  | 12'-0"   | 7'-0"                | 5'-9"                |
| 55.0                                                       | 14'-0"                                  | 7'-6"                     | 7'-10"   | 6'-0"                  | 9'-8"    | 9'-6"                  | 8'-6"    | 6'-6"                  | 12'-0"   | 7'-0"                | 5'-8"                |
| 60.0                                                       | 13'-3"                                  | 7'-6"                     | 7'-10"   | 6'-1"                  | 9'-9"    | 9'-6"                  | 8'-5"    | 6'-7"                  | 12'-0"   | 6'-11"               | 5'-8"                |
| 65.0                                                       | 12'-6"                                  | 7'-4"                     | 7'-8"    | 5'-11"                 | 9'-6"    | 9'-1"                  | 8'-4"    | 6'-5"                  | 12'-0"   | 6'-10"               | 5'-7"                |
| 70.0                                                       | 12'-0"                                  | 7'-6"                     | 7'-7"    | 6'-0"                  | 9'-5"    | 9'-4"                  | 8'-3"    | 6'-6"                  | 11'-10"  | 6'-9"                | 5'-7"                |
| 75.0                                                       | 11'-4"                                  | 7'-8"                     | 7'-6"    | 6'-2"                  | 9'-4"    | 9'-7"                  | 8'-2"    | 6'-8"                  | 11'-10"  | 6'-9"                | 5'-6"                |
| 80.0                                                       | 11'-0"                                  | 7'-6"                     | 7'-6"    | 6'-0"                  | 9'-3"    | 9'-4"                  | 8'-1"    | 6'-7"                  | 11'-9"   | 6'-8"                | 5'-6"                |
| 85.0                                                       | 10'-6"                                  | 7'-6"                     | 7'-6"    | 6'-0"                  | 9'-2"    | 9'-4"                  | 8'-1"    | 6'-8"                  | 11'-8"   | 6'-7"                | 5'-5"                |
| 90.0                                                       | 10'-2"                                  | 7'-7"                     | 7'-4"    | 6'-1"                  | 9'-1"    | 9'-6"                  | 8'-0"    | 6'-8"                  | 11'-7"   | 6'-7"                | 5'-5"                |
| 95.0                                                       | 9'-9"                                   | 7'-6"                     | 7'-4"    | 6'-0"                  | 9'-1"    | 9'-2"                  | 8'-0"    | 6'-6"                  | 11'-6"   | 6'-6"                | 5'-4"                |
| 100.0                                                      | 9'-5"                                   | 7'-8"                     | 7'-4"    | 6'-0"                  | 9'-0"    | 9'-4"                  | 7'-11"   | 6'-8"                  | 11'-5"   | 6'-6"                | 5'-4"                |
| 105.0                                                      | 9'-2"                                   | 7'-10"                    | 7'-3"    | 6'-4"                  | 9'-0"    | 9'-9"                  | 7'-10"   | 6'-10"                 | 11'-4"   | 6'-6"                | 5'-4"                |
| 110.0                                                      | 9'-0"                                   | 7'-6"                     | 7'-2"    | 6'-0"                  | 8'-10"   | 9'-3"                  | 7'-10"   | 6'-7"                  | 11'-3"   | 6'-5"                | 5'-3"                |
| 115.0                                                      | 8'-9"                                   | 7'-7"                     | 7'-2"    | 6'-1"                  | 8'-10"   | 9'-0"                  | 7'-9"    | 6'-6"                  | 11'-2"   | 6'-4"                | 5'-3"                |
| 120.0                                                      | 8'-6"                                   | 7'-10"                    | 7'-2"    | 6'-3"                  | 8'-10"   | 9'-3"                  | 7'-9"    | 6'-8"                  | 11'-0"   | 6'-4"                | 5'-1"                |
| 125.0                                                      | 8'-3"                                   | 7'-8"                     | 7'-0"    | 6'-5"                  | 8'-9"    | 9'-6"                  | 7'-8"    | 6'-10"                 | 11'-0"   | 6'-4"                | 5'-0"                |
| 130.0                                                      | 8'-0"                                   | 7'-7"                     | 7'-0"    | 6'-2"                  | 8'-9"    | 9'-4"                  | 7'-8"    | 6'-9"                  | 11'-0"   | 6'-4"                | 5'-0"                |
| 135.0                                                      | 7'-10"                                  | 8'-2"                     | 7'-0"    | 6'-0"                  | 8'-8"    | 9'-1"                  | 7'-8"    | 6'-7"                  | 11'-0"   | 6'-3"                | 5'-0"                |
| 140.0                                                      | 7'-6"                                   | 8'-2"                     | 7'-0"    | 6'-6"                  | 8'-8"    | 9'-8"                  | 7'-8"    | 7'-2"                  | 11'-0"   | 6'-3"                | 5'-0"                |
| 145.0                                                      | 7'-3"                                   | 8'-2"                     | 7'-0"    | 6'-6"                  | 8'-8"    | 9'-9"                  | 7'-8"    | 7'-2"                  | 11'-0"   | 6'-3"                | 5'-0"                |
| 150.0                                                      | 7'-0"                                   | 8'-0"                     | 7'-0"    | 6'-6"                  | 8'-8"    | 9'-8"                  | 7'-8"    | 7'-1"                  | 11'-0"   | 6'-3"                | 5'-0"                |
| 155.0                                                      | 6'-6"                                   | 7'-11"                    | 7'-0"    | 6'-4"                  | 8'-8"    | 9'-5"                  | 7'-8"    | 6'-11"                 | 11'-0"   | 6'-3"                | 5'-0"                |
| 160.0                                                      | 6'-1"                                   | 8'-0"                     | 7'-0"    | 6'-5"                  | 8'-8"    | 9'-11"                 | 7'-8"    | 7'-0"                  | 11'-0"   | 6'-3"                | 5'-0"                |

\* 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.

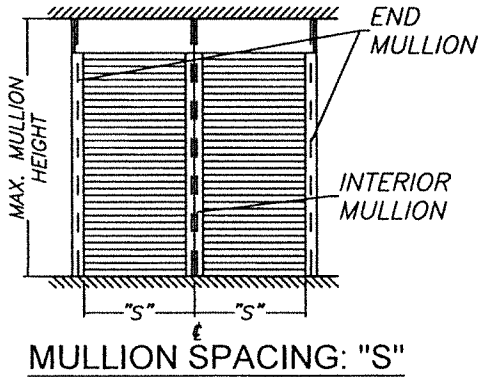
† MULLION ORIENTATION IS AS SEEN FROM THE OUTSIDE (EXTERIOR) OF PRODUCT.



| FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)                                                                                                                                                                                  |             |         |         |             |                                                                                                                           |                                                                  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|---------|-------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--|--|--|
| ©2023 TILTECO, INC.                                                                                                                                                                                                                       |             |         |         |             | 58 mm SLAT END RETENTION ALUMINUM ROLL-UP SHUTTER SYSTEM (L.M.I.)                                                         |                                                                  |  |  |  |
| <b>TILTECO INC.</b><br>TILLIT TESTING & ENGINEERING COMPANY<br>6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166<br>Phone : (305)871-1530 ; Fax : (305)871-1531<br>CA-0006719<br>WALTER A. TILLIT Jr. P.E.<br>FLORIDA Lic. # 44167 |             |         |         |             | <b>FOLDING SHUTTER CORP.</b><br>1862 DR. MARTIN LUTHER KING BLVD.<br>WEST PALM BEACH, FL 33404<br>www.foldingshutters.com |                                                                  |  |  |  |
| REV. NO                                                                                                                                                                                                                                   | DESCRIPTION | DATE    | REV. NO | DESCRIPTION | DATE                                                                                                                      | Y.M.<br>DRAWN BY:<br>7/14/2023<br>DATE:<br>23-107<br>DRAWING No. |  |  |  |
| 1                                                                                                                                                                                                                                         | OLD 22-013  | 7/14/23 | 3       | -           | -                                                                                                                         | SHEET 19 OF 21                                                   |  |  |  |
| 2                                                                                                                                                                                                                                         | -           | -       | 4       | -           | -                                                                                                                         |                                                                  |  |  |  |

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 7'-0" MAX. MULLION SPACING (ft) \*

| MAX.<br>A.S.D.<br>DESIGN<br>PRESSURE<br>RATING<br>(p.s.f.) | MAXIMUM<br>MULLION<br>SPACING<br>(ft) * | MAXIMUM MULLION SPAN (FT) |          |                        |          |                        |          |                        |          |                        |                        |                        |  |
|------------------------------------------------------------|-----------------------------------------|---------------------------|----------|------------------------|----------|------------------------|----------|------------------------|----------|------------------------|------------------------|------------------------|--|
|                                                            |                                         | (H) 4"x6"x1/4" MULLION    |          |                        |          | (I) 4"x8"x1/4" MULLION |          |                        |          | (G) 4"x4"x1/4" MULLION | (F) 4"x4"x1/8" MULLION | (E) 3"x4"x1/8" MULLION |  |
|                                                            |                                         | ORIENTATION #2<br>(=)†    |          | ORIENTATION #1<br>(∩)† |          | ORIENTATION #2<br>(=)† |          | ORIENTATION #1<br>(∩)† |          |                        |                        |                        |  |
|                                                            |                                         | END                       | INTERIOR | END                    | INTERIOR | END                    | INTERIOR | END                    | INTERIOR | INTERIOR               | INTERIOR               | INTERIOR               |  |
| 25.0                                                       | 7'-0"                                   | 12'-0"                    | 12'-0"   | 12'-0"                 | 12'-0"   | 12'-0"                 | 12'-0"   | 12'-0"                 | 12'-0"   | 11'-5"                 | 9'-4"                  | 8'-9"                  |  |
| 30.0                                                       | 7'-0"                                   | 12'-0"                    | 12'-0"   | 12'-0"                 | 12'-0"   | 12'-0"                 | 12'-0"   | 12'-0"                 | 12'-0"   | 10'-9"                 | 8'-10"                 | 8'-3"                  |  |
| 35.0                                                       | 7'-0"                                   | 12'-0"                    | 11'-5"   | 12'-0"                 | 12'-0"   | 12'-0"                 | 12'-0"   | 12'-0"                 | 12'-0"   | 10'-3"                 | 8'-4"                  | -                      |  |
| 40.0                                                       | 7'-0"                                   | 12'-0"                    | 10'-11"  | 12'-0"                 | 12'-0"   | 12'-0"                 | 11'-10"  | 12'-0"                 | 12'-0"   | 9'-9"                  | 8'-0"                  | -                      |  |
| 45.0                                                       | 7'-0"                                   | 12'-0"                    | 10'-6"   | 12'-0"                 | 12'-0"   | 12'-0"                 | 11'-5"   | 12'-0"                 | 12'-0"   | 9'-5"                  | -                      | -                      |  |
| 50.0                                                       | 7'-0"                                   | 12'-0"                    | 10'-2"   | 12'-0"                 | 12'-0"   | 12'-0"                 | 11'-0"   | 12'-0"                 | 12'-0"   | 9'-0"                  | -                      | -                      |  |
| 55.0                                                       | 7'-0"                                   | 12'-0"                    | 9'-10"   | 12'-0"                 | 12'-0"   | 12'-0"                 | 10'-8"   | 12'-0"                 | 12'-0"   | 8'-8"                  | -                      | -                      |  |
| 60.0                                                       | 7'-0"                                   | 12'-0"                    | 9'-10"   | 11'-2"                 | 12'-0"   | 12'-0"                 | 10'-4"   | 12'-0"                 | 12'-0"   | 8'-6"                  | -                      | -                      |  |
| 65.0                                                       | 7'-0"                                   | 12'-0"                    | 9'-4"    | 10'-5"                 | 11'-6"   | 12'-0"                 | 10'-1"   | 11'-4"                 | 12'-0"   | 8'-4"                  | -                      | -                      |  |
| 70.0                                                       | 7'-0"                                   | 12'-0"                    | 9'-2"    | 9'-10"                 | 11'-3"   | 12'-0"                 | 10'-1"   | 10'-8"                 | 12'-0"   | 8'-1"                  | -                      | -                      |  |
| 75.0                                                       | 7'-0"                                   | 11'-3"                    | 8'-10"   | 9'-4"                  | 11'-0"   | 12'-0"                 | 9'-10"   | 10'-1"                 | 12'-0"   | -                      | -                      | -                      |  |
| 80.0                                                       | 7'-0"                                   | 11'-0"                    | 8'-7"    | 8'-11"                 | 10'-9"   | 11'-10"                | 9'-8"    | 9'-9"                  | 12'-0"   | -                      | -                      | -                      |  |
| 85.0                                                       | 7'-0"                                   | 10'-8"                    | 8'-6"    | 8'-7"                  | 10'-6"   | 11'-8"                 | 9'-5"    | 9'-4"                  | 12'-0"   | -                      | -                      | -                      |  |
| 90.0                                                       | 7'-0"                                   | 10'-4"                    | 8'-4"    | 8'-4"                  | 10'-4"   | 11'-4"                 | 9'-3"    | 9'-0"                  | 12'-0"   | -                      | -                      | -                      |  |
| 95.0                                                       | 7'-0"                                   | 10'-0"                    | 8'-2"    | 8'-1"                  | 10'-2"   | 11'-3"                 | 9'-0"    | 8'-9"                  | 12'-0"   | -                      | -                      | -                      |  |
| 100.0                                                      | 7'-0"                                   | 9'-9"                     | 8'-0"    | -                      | 10'-0"   | 11'-0"                 | 8'-11"   | 8'-6"                  | 12'-0"   | -                      | -                      | -                      |  |
| 105.0                                                      | 7'-0"                                   | 9'-6"                     | -        | -                      | 9'-10"   | 10'-9"                 | 8'-9"    | 8'-4"                  | 12'-0"   | -                      | -                      | -                      |  |
| 110.0                                                      | 7'-0"                                   | 9'-3"                     | -        | -                      | 9'-8"    | 10'-7"                 | 8'-7"    | 8'-1"                  | 12'-0"   | -                      | -                      | -                      |  |
| 115.0                                                      | 7'-0"                                   | 9'-1"                     | -        | -                      | 9'-6"    | 10'-5"                 | 8'-6"    | 8'-1"                  | 11'-11"  | -                      | -                      | -                      |  |
| 120.0                                                      | 7'-0"                                   | 8'-10"                    | -        | -                      | 9'-5"    | 10'-4"                 | 8'-3"    | -                      | 11'-10"  | -                      | -                      | -                      |  |
| 125.0                                                      | 7'-0"                                   | 8'-9"                     | -        | -                      | 9'-3"    | 10'-3"                 | 8'-0"    | -                      | 11'-8"   | -                      | -                      | -                      |  |
| 130.0                                                      | 7'-0"                                   | 8'-5"                     | -        | -                      | 9'-2"    | 10'-0"                 | -        | -                      | 11'-7"   | -                      | -                      | -                      |  |
| 135.0                                                      | 7'-0"                                   | 8'-5"                     | -        | -                      | 9'-0"    | 9'-11"                 | -        | -                      | 11'-5"   | -                      | -                      | -                      |  |
| 140.0                                                      | 7'-0"                                   | 8'-4"                     | -        | -                      | 8'-11"   | 9'-9"                  | -        | -                      | 11'-3"   | -                      | -                      | -                      |  |
| 145.0                                                      | 7'-0"                                   | 8'-2"                     | -        | -                      | 8'-10"   | 9'-8"                  | -        | -                      | 11'-1"   | -                      | -                      | -                      |  |
| 150.0                                                      | 7'-0"                                   | 8'-0"                     | -        | -                      | 8'-8"    | 9'-8"                  | -        | -                      | 11'-0"   | -                      | -                      | -                      |  |



\* 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.

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 7'-0" MAX. MULLION SPACING (FT) \*

| MAX.<br>A.S.D.<br>DESIGN<br>PRESSURE<br>RATING<br>(p.s.f.) | MAXIMUM<br>MULLION<br>SPACING<br>(ft) * | MAXIMUM MULLION SPAN (FT) |          |                        |          |                        |          |                        |          |                        |                        |                        |  |
|------------------------------------------------------------|-----------------------------------------|---------------------------|----------|------------------------|----------|------------------------|----------|------------------------|----------|------------------------|------------------------|------------------------|--|
|                                                            |                                         | (H) 4"x6"x1/4" MULLION    |          |                        |          | (I) 4"x8"x1/4" MULLION |          |                        |          | (G) 4"x4"x1/4" MULLION | (F) 4"x4"x1/8" MULLION | (E) 3"x4"x1/8" MULLION |  |
|                                                            |                                         | ORIENTATION #2<br>(=)†    |          | ORIENTATION #1<br>(∩)† |          | ORIENTATION #2<br>(=)† |          | ORIENTATION #1<br>(∩)† |          |                        |                        |                        |  |
|                                                            |                                         | END                       | INTERIOR | END                    | INTERIOR | END                    | INTERIOR | END                    | INTERIOR | INTERIOR               | INTERIOR               | INTERIOR               |  |
| 25.0                                                       | 7'-0"                                   | 12'-0"                    | 12'-0"   | 12'-0"                 | 12'-0"   | 12'-0"                 | 12'-0"   | 12'-0"                 | 12'-0"   | 11'-5"                 | 9'-4"                  | 8'-9"                  |  |
| 30.0                                                       | 7'-0"                                   | 12'-0"                    | 12'-0"   | 12'-0"                 | 12'-0"   | 12'-0"                 | 12'-0"   | 12'-0"                 | 12'-0"   | 10'-9"                 | 8'-10"                 | 8'-3"                  |  |
| 35.0                                                       | 7'-0"                                   | 12'-0"                    | 11'-5"   | 12'-0"                 | 12'-0"   | 12'-0"                 | 12'-0"   | 12'-0"                 | 12'-0"   | 10'-3"                 | 8'-4"                  | 7'-9"                  |  |
| 40.0                                                       | 7'-0"                                   | 12'-0"                    | 10'-11"  | 12'-0"                 | 12'-0"   | 12'-0"                 | 11'-10"  | 12'-0"                 | 12'-0"   | 9'-9"                  | 8'-0"                  | 7'-6"                  |  |
| 45.0                                                       | 7'-0"                                   | 12'-0"                    | 10'-6"   | 12'-0"                 | 12'-0"   | 12'-0"                 | 11'-5"   | 12'-0"                 | 12'-0"   | 9'-5"                  | 7'-9"                  | 7'-2"                  |  |
| 50.0                                                       | 7'-0"                                   | 12'-0"                    | 10'-2"   | 12'-0"                 | 12'-0"   | 12'-0"                 | 11'-0"   | 12'-0"                 | 12'-0"   | 9'-0"                  | 7'-5"                  | 6'-11"                 |  |
| 55.0                                                       | 7'-0"                                   | 12'-0"                    | 9'-10"   | 12'-0"                 | 12'-0"   | 12'-0"                 | 10'-8"   | 12'-0"                 | 12'-0"   | 8'-8"                  | 7'-2"                  | 6'-9"                  |  |
| 60.0                                                       | 7'-0"                                   | 12'-0"                    | 9'-10"   | 11'-2"                 | 12'-0"   | 12'-0"                 | 10'-4"   | 12'-0"                 | 12'-0"   | 8'-6"                  | 7'-0"                  | 6'-6"                  |  |
| 65.0                                                       | 7'-0"                                   | 12'-0"                    | 9'-4"    | 10'-5"                 | 11'-6"   | 12'-0"                 | 10'-1"   | 11'-4"                 | 12'-0"   | 8'-4"                  | 6'-10"                 | 6'-4"                  |  |
| 70.0                                                       | 7'-0"                                   | 12'-0"                    | 9'-2"    | 9'-10"                 | 11'-3"   | 12'-0"                 | 10'-1"   | 10'-8"                 | 12'-0"   | 8'-1"                  | 6'-7"                  | 6'-2"                  |  |
| 75.0                                                       | 7'-0"                                   | 11'-3"                    | 8'-10"   | 9'-4"                  | 11'-0"   | 12'-0"                 | 9'-10"   | 10'-1"                 | 12'-0"   | 7'-11"                 | 6'-6"                  | 6'-0"                  |  |
| 80.0                                                       | 7'-0"                                   | 11'-0"                    | 8'-7"    | 8'-11"                 | 10'-9"   | 11'-10"                | 9'-8"    | 9'-9"                  | 12'-0"   | 7'-9"                  | 6'-4"                  | 5'-11"                 |  |
| 85.0                                                       | 7'-0"                                   | 10'-8"                    | 8'-6"    | 8'-7"                  | 10'-6"   | 11'-8"                 | 9'-5"    | 9'-4"                  | 12'-0"   | 7'-7"                  | 6'-3"                  | 5'-9"                  |  |
| 90.0                                                       | 7'-0"                                   | 10'-4"                    | 8'-4"    | 8'-4"                  | 10'-4"   | 11'-4"                 | 9'-3"    | 9'-0"                  | 12'-0"   | 7'-6"                  | 6'-1"                  | 5'-8"                  |  |
| 95.0                                                       | 7'-0"                                   | 10'-0"                    | 8'-2"    | 8'-1"                  | 10'-2"   | 11'-3"                 | 9'-0"    | 8'-9"                  | 12'-0"   | 7'-4"                  | 6'-0"                  | 5'-7"                  |  |
| 100.0                                                      | 7'-0"                                   | 9'-9"                     | 8'-0"    | 7'-10"                 | 10'-0"   | 11'-0"                 | 8'-11"   | 8'-6"                  | 12'-0"   | 7'-2"                  | 5'-11"                 | 5'-6"                  |  |
| 105.0                                                      | 7'-0"                                   | 9'-6"                     | 7'-11"   | 7'-8"                  | 9'-10"   | 10'-9"                 | 8'-9"    | 8'-4"                  | 12'-0"   | 7'-1"                  | 5'-10"                 | 5'-5"                  |  |
| 110.0                                                      | 7'-0"                                   | 9'-3"                     | 7'-10"   | 7'-6"                  | 9'-8"    | 10'-7"                 | 8'-7"    | 8'-1"                  | 12'-0"   | 7'-0"                  | 5'-9"                  | 5'-4"                  |  |
| 115.0                                                      | 7'-0"                                   | 9'-1"                     | 7'-8"    | 7'-4"                  | 9'-6"    | 10'-5"                 | 8'-6"    | 8'-1"                  | 11'-11"  | 6'-11"                 | 5'-8"                  | 5'-3"                  |  |
| 120.0                                                      | 7'-0"                                   | 8'-10"                    | 7'-7"    | 7'-2"                  | 9'-5"    | 10'-4"                 | 8'-3"    | 7'-9"                  | 11'-10"  | 6'-9"                  | 5'-7"                  | 5'-0"                  |  |
| 125.0                                                      | 7'-0"                                   | 8'-9"                     | 7'-6"    | 7'-0"                  | 9'-3"    | 10'-3"                 | 8'-0"    | 7'-8"                  | 11'-8"   | 6'-8"                  | 5'-6"                  | 4'-11"                 |  |
| 130.0                                                      | 7'-0"                                   | 8'-5"                     | 7'-5"    | 6'-11"                 | 9'-2"    | 10'-0"                 | 7'-10"   | 7'-6"                  | 11'-7"   | 6'-7"                  | 5'-5"                  | 4'-10"                 |  |
| 135.0                                                      | 7'-0"                                   | 8'-5"                     | 7'-3"    | 6'-10"                 | 9'-0"    | 9'-11"                 | 7'-8"    | 7'-4"                  | 11'-5"   | 6'-6"                  | 5'-3"                  | 4'-9"                  |  |
| 140.0                                                      | 7'-0"                                   | 8'-4"                     | 7'-2"    | 6'-8"                  | 8'-11"   | 9'-9"                  | 7'-8"    | 7'-3"                  | 11'-3"   | 6'-5"                  | 5'-3"                  | 4'-8"                  |  |
| 145.0                                                      | 7'-0"                                   | 8'-2"                     | 7'-1"    | 6'-7"                  | 8'-10"   | 9'-8"                  | 7'-5"    | 7'-1"                  | 11'-1"   | 6'-4"                  | 5'-2"                  | 4'-7"                  |  |
| 150.0                                                      | 7'-0"                                   | 8'-0"                     | 7'-0"    | 6'-6"                  | 8'-8"    | 9'-8"                  | 7'-5"    | 7'-0"                  | 11'-0"   | 6'-3"                  | 5'-2"                  | 4'-5"                  |  |

WALTER A. TILLIT  
LICENSE  
No. 44167  
PROFESSIONAL ENGINEER  
FLORIDA  
7/14/2023  
P.E. SEAL/SIGNATURE/DATE

| FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)                                                                                                                                                                                |             |         |         |             |      |                                                                                                                           |  |  |                    |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|---------|-------------|------|---------------------------------------------------------------------------------------------------------------------------|--|--|--------------------|--|--|
| ©2023 TILTECO, INC.                                                                                                                                                                                                                     |             |         |         |             |      | 58 mm SLAT END RETENTION ALUMINUM<br>ROLL-UP SHUTTER SYSTEM (L.M.I.)                                                      |  |  | Y.M.<br>DRAWN BY:  |  |  |
| <b>TILTECO INC.</b><br>TILLIT TESTING & ENGINEERING COMPANY<br>6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166<br>Phone : (305)871-1530 Fax : (305)871-1531<br>CA-0006719<br>WALTER A. TILLIT Jr. P.E.<br>FLORIDA Lic. # 44167 |             |         |         |             |      | <b>FOLDING SHUTTER CORP.</b><br>1862 DR. MARTIN LUTHER KING BLVD.<br>WEST PALM BEACH, FL 33404<br>www.foldingshutters.com |  |  | 7/14/2023<br>DATE: |  |  |
| REV. NO                                                                                                                                                                                                                                 | DESCRIPTION | DATE    | REV. NO | DESCRIPTION | DATE | 23-107<br>DRAWING No.                                                                                                     |  |  | SHEET 20 OF 21     |  |  |
| 1                                                                                                                                                                                                                                       | OLD 22-013  | 7/14/23 | 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 12'-0" MAX. MULLION SPACING (ft) \*

| MAX.<br>A.S.D.<br>DESIGN<br>PRESSURE<br>RATING<br>(p.s.f.) | MAXIMUM<br>MULLION<br>SPACING<br>(ft) * | MAXIMUM MULLION SPAN (FT) |          |                        |          |                        |          |                        |          |                        |                        |
|------------------------------------------------------------|-----------------------------------------|---------------------------|----------|------------------------|----------|------------------------|----------|------------------------|----------|------------------------|------------------------|
|                                                            |                                         | (H) 4"x6"x1/4" MULLION    |          |                        |          | (I) 4"x8"x1/4" MULLION |          |                        |          | (G) 4"x4"x1/4" MULLION | (F) 4"x4"x1/8" MULLION |
|                                                            |                                         | ORIENTATION #2<br>(⇐)†    |          | ORIENTATION #1<br>(⇐)† |          | ORIENTATION #2<br>(⇐)† |          | ORIENTATION #1<br>(⇐)† |          | INTERIOR               | INTERIOR               |
|                                                            |                                         | END                       | INTERIOR | END                    | INTERIOR | END                    | INTERIOR | END                    | INTERIOR |                        |                        |
| 25.0                                                       | 12'-0"                                  | 10'-11"                   | 10'-8"   | 8'-10"                 | 12'-0"   | 12'-0"                 | 11'-7"   | 9'-7"                  | 12'-0"   | 9'-6"                  | -                      |
| 30.0                                                       | 12'-0"                                  | 10'-2"                    | 10'-0"   | 8'-2"                  | 12'-0"   | 12'-0"                 | 10'-11"  | 8'-11"                 | 12'-0"   | 9'-0"                  | -                      |
| 35.0                                                       | 12'-0"                                  | 9'-7"                     | 9'-6"    | 8'-0"                  | 11'-10"  | 12'-0"                 | 10'-4"   | 8'-5"                  | 12'-0"   | 8'-6"                  | -                      |
| 40.0                                                       | 12'-0"                                  | 9'-1"                     | 9'-1"    | 8'-0"                  | 11'-4"   | 11'-7"                 | 10'-0"   | 8'-0"                  | 12'-0"   | 8'-2"                  | -                      |
| 45.0                                                       | 12'-0"                                  | 8'-9"                     | 8'-9"    | -                      | 10'-10"  | 11'-0"                 | 9'-6"    | -                      | 12'-0"   | -                      | -                      |
| 50.0                                                       | 12'-0"                                  | 8'-4"                     | 8'-6"    | -                      | 10'-6"   | 10'-7"                 | 9'-2"    | -                      | 12'-0"   | -                      | -                      |
| 55.0                                                       | 12'-0"                                  | 8'-1"                     | 8'-2"    | -                      | 9'-7"    | 10'-3"                 | 8'-11"   | -                      | 12'-0"   | -                      | -                      |
| 60.0                                                       | 12'-0"                                  | -                         | 8'-2"    | -                      | 9'-7"    | 10'-0"                 | 8'-8"    | -                      | 12'-0"   | -                      | -                      |
| 65.0                                                       | 12'-0"                                  | -                         | -        | -                      | 9'-7"    | 9'-8"                  | 8'-5"    | -                      | 12'-0"   | -                      | -                      |
| 70.0                                                       | 12'-0"                                  | -                         | -        | -                      | 9'-4"    | 9'-6"                  | 8'-3"    | -                      | 11'-10"  | -                      | -                      |

SCHEDULE 1c' (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) & 7'-0" (CASES Ia & II) MAX. MULLION SPACING (ft) \*

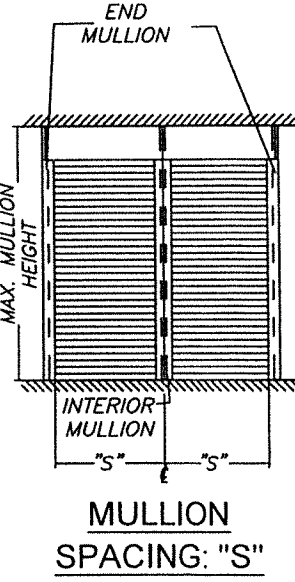
| INSTALLATION<br>CASES | MAX.<br>A.S.D.<br>DESIGN<br>PRESSURE<br>RATING<br>(p.s.f.) | MAXIMUM<br>MULLION<br>SPACING<br>(ft) * | MAXIMUM MULLION SPAN (FT) |                         |                           |                         |          |          |                           |                           |                           |
|-----------------------|------------------------------------------------------------|-----------------------------------------|---------------------------|-------------------------|---------------------------|-------------------------|----------|----------|---------------------------|---------------------------|---------------------------|
|                       |                                                            |                                         | (H) 4"x6"x1/4"<br>MULLION |                         | (I) 4"x8"x1/4"<br>MULLION |                         |          |          | (G) 4"x4"x1/4"<br>MULLION | (F) 4"x4"x1/8"<br>MULLION | (E) 3"x4"x1/8"<br>MULLION |
|                       |                                                            |                                         | ORIENTATION #1<br>(□) †   | ORIENTATION #2<br>(⇌) † | ORIENTATION #2<br>(⇌) †   | ORIENTATION #1<br>(□) † |          |          |                           |                           |                           |
|                       |                                                            |                                         | INTERIOR                  | END                     | INTERIOR                  | INTERIOR                | INTERIOR | INTERIOR | INTERIOR                  |                           |                           |
| CASE I                | 25.0                                                       | 12'-0"                                  | 10'-0"                    | 10'-0"                  | 10'-0"                    | 10'-0"                  | 10'-0"   | 9'-6"    | —                         | —                         |                           |
|                       | 30.0                                                       | 12'-0"                                  | 10'-0"                    | 10'-0"                  | 10'-0"                    | 10'-0"                  | 10'-0"   | 9'-0"    | —                         | —                         |                           |
|                       | 35.0                                                       | 12'-0"                                  | 10'-0"                    | 10'-0"                  | 10'-0"                    | 10'-0"                  | 10'-0"   | 8'-6"    | —                         | —                         |                           |
|                       | 40.0                                                       | 12'-0"                                  | 10'-0"                    | 10'-0"                  | 10'-0"                    | 10'-0"                  | 10'-0"   | 8'-2"    | —                         | —                         |                           |
|                       | 45.0                                                       | 12'-0"                                  | 10'-0"                    | 10'-0"                  | 10'-0"                    | 9'-6"                   | 10'-0"   | —        | —                         | —                         |                           |
|                       | 50.0                                                       | 12'-0"                                  | 10'-0"                    | 10'-0"                  | 10'-0"                    | 9'-2"                   | 10'-0"   | —        | —                         | —                         |                           |
|                       | 55.0                                                       | 12'-0"                                  | 9'-7"                     | 10'-0"                  | 8'-11"                    | 10'-0"                  | —        | —        | —                         | —                         |                           |
|                       | 60.0                                                       | 12'-0"                                  | 9'-7"                     | 10'-0"                  | 8'-8"                     | 10'-0"                  | —        | —        | —                         | —                         |                           |
| CASE Ia               | 25.0                                                       | 7'-0"                                   | 10'-0"                    | 10'-0"                  | 10'-0"                    | 10'-0"                  | 10'-0"   | 10'-0"   | 9'-4"                     | —                         |                           |
|                       | 30.0                                                       | 7'-0"                                   | 10'-0"                    | 10'-0"                  | 10'-0"                    | 10'-0"                  | 10'-0"   | 10'-0"   | 8'-10"                    | —                         |                           |
|                       | 35.0                                                       | 7'-0"                                   | 10'-0"                    | 10'-0"                  | 10'-0"                    | 10'-0"                  | 10'-0"   | 10'-0"   | 8'-4"                     | —                         |                           |
|                       | 40.0                                                       | 7'-0"                                   | 10'-0"                    | 10'-0"                  | 10'-0"                    | 10'-0"                  | 10'-0"   | 9'-5"    | 8'-0"                     | —                         |                           |
|                       | 45.0                                                       | 7'-0"                                   | 10'-0"                    | 10'-0"                  | 10'-0"                    | 10'-0"                  | 10'-0"   | 9'-5"    | —                         | —                         |                           |
|                       | 50.0                                                       | 7'-0"                                   | 10'-0"                    | 10'-0"                  | 10'-0"                    | 10'-0"                  | 10'-0"   | 9'-0"    | —                         | —                         |                           |
|                       | 55.0                                                       | 7'-0"                                   | 10'-0"                    | 10'-0"                  | 10'-0"                    | 10'-0"                  | 10'-0"   | 8'-8"    | —                         | —                         |                           |
|                       | 60.0                                                       | 7'-0"                                   | 10'-0"                    | 10'-0"                  | 10'-0"                    | 10'-0"                  | 10'-0"   | 8'-6"    | —                         | —                         |                           |
| CASE II               | 25.0                                                       | 7'-0"                                   | 9'-0"                     | 9'-0"                   | 9'-0"                     | 9'-0"                   | 9'-0"    | 9'-0"    | 9'-0"                     | —                         |                           |
|                       | 30.0                                                       | 7'-0"                                   | 9'-0"                     | 9'-0"                   | 9'-0"                     | 9'-0"                   | 9'-0"    | 9'-0"    | 8'-10"                    | —                         |                           |
|                       | 35.0                                                       | 7'-0"                                   | 9'-0"                     | 9'-0"                   | 9'-0"                     | 9'-0"                   | 9'-0"    | 9'-0"    | 8'-4"                     | —                         |                           |
|                       | 40.0                                                       | 7'-0"                                   | 9'-0"                     | 9'-0"                   | 9'-0"                     | 9'-0"                   | 9'-0"    | 9'-0"    | 8'-0"                     | —                         |                           |
|                       | 45.0                                                       | 7'-0"                                   | 9'-0"                     | 9'-0"                   | 9'-0"                     | 9'-0"                   | 9'-0"    | 9'-0"    | —                         | —                         |                           |
|                       | 50.0                                                       | 7'-0"                                   | 9'-0"                     | 9'-0"                   | 9'-0"                     | 9'-0"                   | 9'-0"    | 9'-0"    | —                         | —                         |                           |
|                       | 55.0                                                       | 7'-0"                                   | 9'-0"                     | 9'-0"                   | 9'-0"                     | 9'-0"                   | 9'-0"    | 8'-8"    | —                         | —                         |                           |
|                       | 60.0                                                       | 7'-0"                                   | 9'-0"                     | 9'-0"                   | 9'-0"                     | 9'-0"                   | 9'-0"    | 8'-6"    | —                         | —                         |                           |
|                       | 65.0                                                       | 7'-0"                                   | 9'-0"                     | 9'-0"                   | 9'-0"                     | 9'-0"                   | 9'-0"    | 8'-4"    | —                         | —                         |                           |
|                       | 70.0                                                       | 7'-0"                                   | 9'-0"                     | 9'-0"                   | 9'-0"                     | 9'-0"                   | 9'-0"    | 8'-1"    | —                         | —                         |                           |
|                       | 75.0                                                       | 7'-0"                                   | 9'-0"                     | 9'-0"                   | 9'-0"                     | 9'-0"                   | 9'-0"    | —        | —                         | —                         |                           |
|                       | 80.0                                                       | 7'-0"                                   | 9'-0"                     | 9'-0"                   | 9'-0"                     | 9'-0"                   | 9'-0"    | —        | —                         | —                         |                           |
|                       | 85.0                                                       | 7'-0"                                   | 9'-0"                     | 9'-0"                   | 9'-0"                     | 9'-0"                   | 9'-0"    | —        | —                         | —                         |                           |
|                       | 90.0                                                       | 7'-0"                                   | 9'-0"                     | 9'-0"                   | 9'-0"                     | 9'-0"                   | 9'-0"    | —        | —                         | —                         |                           |
|                       | 95.0                                                       | 7'-0"                                   | 9'-0"                     | 9'-0"                   | 9'-0"                     | 9'-0"                   | 9'-0"    | —        | —                         | —                         |                           |
|                       | 100.0                                                      | 7'-0"                                   | 9'-0"                     | 9'-0"                   | 9'-0"                     | 9'-0"                   | 9'-0"    | —        | —                         | —                         |                           |

SCHEDULE 2c  
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.<br>A.S.D.<br>DESIGN<br>PRESSURE<br>RATING<br>(p.s.f.) | MAXIMUM<br>MULLION<br>SPACING<br>(ft) * | MAXIMUM MULLION SPAN (FT) |          |                        |          |                        |          |                        |          |                        |                        |                        |          |
|------------------------------------------------------------|-----------------------------------------|---------------------------|----------|------------------------|----------|------------------------|----------|------------------------|----------|------------------------|------------------------|------------------------|----------|
|                                                            |                                         | (H) 4"x6"x1/4" MULLION    |          |                        |          | (I) 4"x8"x1/4" MULLION |          |                        |          | (G) 4"x4"x1/4" MULLION | (F) 4"x4"x1/8" MULLION | (E) 3"x4"x1/8" MULLION |          |
|                                                            |                                         | ORIENTATION #2<br>(⇐)†    |          | ORIENTATION #1<br>(⇐)† |          | ORIENTATION #2<br>(⇐)† |          | ORIENTATION #1<br>(⇐)† |          | INTERIOR               | INTERIOR               | INTERIOR               | INTERIOR |
|                                                            |                                         | END                       | INTERIOR | END                    | INTERIOR | END                    | INTERIOR | END                    | INTERIOR |                        |                        |                        |          |
| 25.0                                                       | 12'-0"                                  | 10'-11"                   | 10'-8"   | 8'-10"                 | 12'-0"   | 12'-0"                 | 11'-7"   | 9'-7"                  | 12'-0"   | 9'-6"                  | 7'-10"                 | 7'-3"                  | 7'-3"    |
| 30.0                                                       | 12'-0"                                  | 10'-2"                    | 10'-0"   | 8'-2"                  | 12'-0"   | 12'-0"                 | 10'-11"  | 8'-11"                 | 12'-0"   | 9'-0"                  | 7'-4"                  | 6'-10"                 | 6'-10"   |
| 35.0                                                       | 12'-0"                                  | 9'-7"                     | 9'-6"    | 8'-0"                  | 11'-10"  | 12'-0"                 | 10'-11"  | 8'-5"                  | 12'-0"   | 8'-6"                  | 7'-0"                  | 6'-6"                  | 6'-6"    |
| 40.0                                                       | 12'-0"                                  | 9'-1"                     | 9'-1"    | 8'-0"                  | 11'-4"   | 11'-7"                 | 10'-0"   | 8'-0"                  | 12'-0"   | 8'-2"                  | 6'-8"                  | 6'-3"                  | 6'-3"    |
| 45.0                                                       | 12'-0"                                  | 8'-9"                     | 8'-9"    | 8'-0"                  | 10'-10"  | 11'-0"                 | 9'-6"    | 7'-8"                  | 12'-0"   | 7'-10"                 | 6'-5"                  | 6'-0"                  | 6'-0"    |
| 50.0                                                       | 12'-0"                                  | 8'-4"                     | 8'-6"    | 7'-0"                  | 10'-6"   | 10'-7"                 | 9'-2"    | 7'-4"                  | 12'-0"   | 7'-6"                  | 6'-3"                  | 5'-9"                  | 5'-9"    |
| 55.0                                                       | 12'-0"                                  | 8'-1"                     | 8'-2"    | 6'-7"                  | 9'-7"    | 10'-3"                 | 8'-11"   | 7'-1"                  | 12'-0"   | 7'-4"                  | 6'-0"                  | 5'-7"                  | 5'-7"    |
| 60.0                                                       | 12'-0"                                  | 7'-10"                    | 8'-2"    | 6'-4"                  | 9'-7"    | 10'-0"                 | 8'-8"    | 6'-11"                 | 12'-0"   | 7'-1"                  | 5'-10"                 | 5'-5"                  | 5'-5"    |
| 65.0                                                       | 12'-0"                                  | 7'-8"                     | 7'-9"    | 6'-2"                  | 9'-7"    | 9'-8"                  | 8'-5"    | 6'-10"                 | 12'-0"   | 6'-11"                 | 5'-8"                  | 5'-3"                  | 5'-3"    |
| 70.0                                                       | 12'-0"                                  | 7'-6"                     | 7'-6"    | 6'-0"                  | 9'-4"    | 9'-6"                  | 8'-3"    | 6'-6"                  | 11'-10"  | 6'-9"                  | 5'-7"                  | 5'-0"                  | 5'-0"    |

SCHEDULE 2c' (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) & 7'-0" (CASE II) MAX. MULLION SPACING (ft) \*

| INSTALLATION<br>CASES | MAX.<br>A.S.D.<br>DESIGN<br>PRESSURE<br>RATING<br>(p.s.f.) | MAXIMUM<br>MULLION<br>SPACING<br>(ft) * | MAXIMUM MULLION SPAN (FT) |                        |                           |                        |                           |                           |                           |       |
|-----------------------|------------------------------------------------------------|-----------------------------------------|---------------------------|------------------------|---------------------------|------------------------|---------------------------|---------------------------|---------------------------|-------|
|                       |                                                            |                                         | (H) 4"x6"x1/4"<br>MULLION |                        | (I) 4"x8"x1/4"<br>MULLION |                        | (G) 4"x4"x1/4"<br>MULLION | (F) 4"x4"x1/8"<br>MULLION | (E) 3"x4"x1/8"<br>MULLION |       |
|                       |                                                            |                                         | ORIENTATION #1<br>(⇐)†    | ORIENTATION #2<br>(⇒)† | ORIENTATION #2<br>(⇒)†    | ORIENTATION #1<br>(⇐)† |                           |                           |                           |       |
|                       |                                                            |                                         | INTERIOR                  | END                    | INTERIOR                  | INTERIOR               | INTERIOR                  | INTERIOR                  | INTERIOR                  |       |
| CASE I'               | 25.0                                                       | 12'-0"                                  | 10'-0"                    | 10'-0"                 | 10'-0"                    | 10'-0"                 | 9'-6"                     | -                         | -                         |       |
|                       | 30.0                                                       | 12'-0"                                  | 10'-0"                    | 10'-0"                 | 10'-0"                    | 10'-0"                 | 9'-0"                     | -                         | -                         |       |
|                       | 35.0                                                       | 12'-0"                                  | 10'-0"                    | 10'-0"                 | 10'-0"                    | 10'-0"                 | 8'-6"                     | -                         | -                         |       |
|                       | 40.0                                                       | 12'-0"                                  | 10'-0"                    | 10'-0"                 | 10'-0"                    | 10'-0"                 | 8'-2"                     | -                         | -                         |       |
|                       | 45.0                                                       | 12'-0"                                  | 10'-0"                    | 10'-0"                 | 9'-6"                     | 10'-0"                 | -                         | -                         | -                         |       |
|                       | 50.0                                                       | 12'-0"                                  | 10'-0"                    | 10'-0"                 | 9'-2"                     | 10'-0"                 | -                         | -                         | -                         |       |
|                       | 55.0                                                       | 12'-0"                                  | 9'-7"                     | 10'-0"                 | 8'-11"                    | 10'-0"                 | -                         | -                         | -                         |       |
|                       | 60.0                                                       | 12'-0"                                  | 9'-7"                     | 10'-0"                 | 8'-8"                     | 10'-0"                 | -                         | -                         | -                         |       |
| CASE II'              | 25.0                                                       | 7'-0"                                   | 9'-0"                     | 9'-0"                  | 9'-0"                     | 9'-0"                  | 9'-0"                     | 9'-0"                     | 8'-9"                     |       |
|                       | 30.0                                                       | 7'-0"                                   | 9'-0"                     | 9'-0"                  | 9'-0"                     | 9'-0"                  | 9'-0"                     | 8'-10"                    | 8'-3"                     |       |
|                       | 35.0                                                       | 7'-0"                                   | 9'-0"                     | 9'-0"                  | 9'-0"                     | 9'-0"                  | 9'-0"                     | 8'-4"                     | 7'-9"                     |       |
|                       | 40.0                                                       | 7'-0"                                   | 9'-0"                     | 9'-0"                  | 9'-0"                     | 9'-0"                  | 9'-0"                     | 8'-0"                     | 7'-6"                     |       |
|                       | 45.0                                                       | 7'-0"                                   | 9'-0"                     | 9'-0"                  | 9'-0"                     | 9'-0"                  | 9'-0"                     | 7'-9"                     | 7'-2"                     |       |
|                       | 50.0                                                       | 7'-0"                                   | 9'-0"                     | 9'-0"                  | 9'-0"                     | 9'-0"                  | 9'-0"                     | 7'-5"                     | 6'-11"                    |       |
|                       | 55.0                                                       | 7'-0"                                   | 9'-0"                     | 9'-0"                  | 9'-0"                     | 9'-0"                  | 8'-8"                     | 7'-2"                     | 6'-9"                     |       |
|                       | 60.0                                                       | 7'-0"                                   | 9'-0"                     | 9'-0"                  | 9'-0"                     | 9'-0"                  | 8'-6"                     | 7'-0"                     | 6'-6"                     |       |
|                       | 65.0                                                       | 7'-0"                                   | 9'-0"                     | 9'-0"                  | 9'-0"                     | 9'-0"                  | 8'-4"                     | 6'-10"                    | 6'-4"                     |       |
|                       | 70.0                                                       | 7'-0"                                   | 9'-0"                     | 9'-0"                  | 9'-0"                     | 9'-0"                  | 8'-1"                     | 6'-7"                     | 6'-2"                     |       |
|                       | 75.0                                                       | 7'-0"                                   | 9'-0"                     | 9'-0"                  | 9'-0"                     | 9'-0"                  | 7'-11"                    | 6'-6"                     | 6'-0"                     |       |
|                       | 80.0                                                       | 7'-0"                                   | 9'-0"                     | 9'-0"                  | 9'-0"                     | 9'-0"                  | 7'-9"                     | 6'-4"                     | 5'-11"                    |       |
|                       | 85.0                                                       | 7'-0"                                   | 9'-0"                     | 9'-0"                  | 9'-0"                     | 9'-0"                  | 7'-7"                     | 6'-3"                     | 5'-9"                     |       |
|                       | 90.0                                                       | 7'-0"                                   | 9'-0"                     | 9'-0"                  | 9'-0"                     | 9'-0"                  | 7'-6"                     | 6'-1"                     | 5'-8"                     |       |
|                       | 95.0                                                       | 7'-0"                                   | 9'-0"                     | 9'-0"                  | 9'-0"                     | 9'-0"                  | 7'-4"                     | 6'-0"                     | 5'-7"                     |       |
|                       |                                                            | 100.0                                   | 7'-0"                     | 9'-0"                  | 9'-0"                     | 9'-0"                  | 9'-0"                     | 7'-2"                     | 5'-11"                    | 5'-6" |



\* 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.

Professional Engineer  
No. 44167  
WALTER A. TILIT Jr. P.E.  
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (NON HIGH VELOCITY HURRICANE ZONE)

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Y.M.  
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