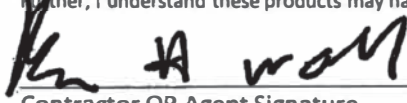


As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. Statewide approved products are listed online @ www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWINGING			
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG	AMI	Double Hung Window	11720.9
B. HORIZONTAL SLIDER	AMI	Sliding Window	11141.27
C. CASEMENT			
D. FIXED			
E. MULLION	AMI	Mullion	12078.5
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING			
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES			
B. NON-STRUCTURAL METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCTURAL COMPONENTS			
A. WOOD CONNECTORS			
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR			
ENVELOPE PRODUCTS			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.



6/29/2023

Contractor OR Agent Signature

Date

NOTES: _____


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Search Criteria
[Refine Search](#)

Code Version	2020	FL#	11720.9
Application Type	ALL	Product Manufacturer	ALL
Category	ALL	Subcategory	ALL
Application Status	ALL	Compliance Method	ALL
Quality Assurance Entity	ALL	Quality Assurance Entity Contract Expired	ALL
Product Model, Number or Name	ALL	Product Description	ALL
Approved for use in HVHZ	ALL	Approved for use outside HVHZ	ALL
Impact Resistant	ALL	Design Pressure	ALL
Other	ALL		

Search Results - Applications

FL#	Type	Manufacturer	Validated By	Status
FL11720-R19 History	Revision	Associated Materials Inc. FL#: FL11720.9 Model: i. Model 3001 / 3B01 / 3A01 / 3AB1 "ST" Description: Extruded Vinyl Double Hung "Replacement" Window - "Non-Impact" Category: Windows Subcategory: Double Hung	Ryan J. King, P.E. (813) 767-6555	Approved

*Approved by DBPR. Approvals by DBPR shall be reviewed and ratified by the POC and/or the Commission if necessary.

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SECRETARY

FL #	FL11720-R19										
Application Type	Revision										
Code Version	2020										
Application Status	Approved										
Comments											
Archived	☐										
Product Manufacturer	Associated Materials Inc.										
Address/Phone/Email	3773 State Road Cuyahoga Falls, OH 44223 (330) 922-2108 rickw@rwblgdgconsultants.com										
Authorized Signature	Vivian Wright rickw@rwblgdgconsultants.com										
Technical Representative											
Address/Phone/Email											
Quality Assurance Representative											
Address/Phone/Email											
Category	Windows										
Subcategory	Double Hung										
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer ☐ Evaluation Report - Hardcopy Received										
Florida Engineer or Architect Name who developed the Evaluation Report	Lyndon F. Schmidt, P.E.										
Florida License	PE-43409										
Quality Assurance Entity	Architectural Testing, Inc., an Intertek Company										
Quality Assurance Contract Expiration Date	12/31/2023										
Validated By	Ryan J. King, P.E. ☒ Validation Checklist - Hardcopy Received										
Certificate of Independence	FL11720 R19 COI (d) Certificate of Independence.pdf										
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th>Standard</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>ANSI/AAMA/NWWDA 101/I.S.2/A440</td> <td>2008</td> </tr> <tr> <td>ANSI/AAMA/NWWDA 101/I.S.2/A440</td> <td>2011</td> </tr> <tr> <td>ASTM E1886</td> <td>2013</td> </tr> <tr> <td>ASTM E1996</td> <td>2017</td> </tr> </tbody> </table>	Standard	Year	ANSI/AAMA/NWWDA 101/I.S.2/A440	2008	ANSI/AAMA/NWWDA 101/I.S.2/A440	2011	ASTM E1886	2013	ASTM E1996	2017
Standard	Year										
ANSI/AAMA/NWWDA 101/I.S.2/A440	2008										
ANSI/AAMA/NWWDA 101/I.S.2/A440	2011										
ASTM E1886	2013										
ASTM E1996	2017										
Equivalence of Product Standards Certified By											
Sections from the Code											

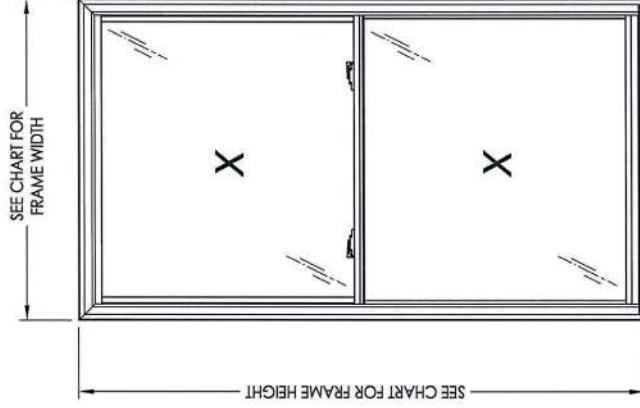
MODEL 3001/3B01/3A01/3AB1 "ST" EXTRUDED VINYL DOUBLE HUNG "Replacement" WINDOW "NON-IMPACT"

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 7th Edition (2020) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection this product is required to be protected with an impact resistant covering that complies with FBC Sections 1609.1.2 & R301.2.1.2.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

TABLE OF CONTENTS

SHEET#	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Horizontal cross sections
3	Vertical cross sections
4	Buck and frame anchoring
5	Bill of materials, components and glazing detail



OVERALL FRAME DIMENSION	MAX. D.L.O. (TOP)	MAX. D.L.O. (BOTTOM)	No. LOCKS	GLASS TYPE	DESIGN PRESSURE (PSF)	
					POSITIVE	NEGATIVE
36.0" x 60.0"	29.12" x 25.63"	30.12" x 26.75"	2	G1	+50.0	-60.0
36.0" x 72.0"	29.12" x 31.63"	30.12" x 32.75"	2	G1	+45.0	-45.0
36.0" x 78.0"	29.12" x 34.63"	30.12" x 35.75"	2	G1	+40.0	-40.0
44.0" x 72.0"	37.12" x 31.63"	38.12" x 32.75"	2	G1	+40.0	-40.0
48.0" x 72.0"	41.12" x 31.63"	42.12" x 32.75"	2	G1	+35.0	-35.0
44.0" x 75.0"	37.12" x 33.13"	38.12" x 34.25"	1	G1	+25.0	-25.0
44.0" x 75.0"	37.12" x 33.13"	38.12" x 34.25"	2	G1	+30.0	-30.0
52.0" x 62.0"	45.12" x 26.63"	46.12" x 27.75"	2	G1	+30.0	-30.0
48.0" x 84.0"	41.12" x 37.63"	42.12" x 38.75"	2	G1	+25.0	-25.0
44.0" x 96.0"	37.12" x 43.63"	38.12" x 44.75"	2	G1	+25.0	-25.0
52.0" x 96.0"	45.12" x 43.63"	46.12" x 44.75"	2	G1	+15.0	-15.0

REVISIONS

NO.	DATE	DESCRIPTION
8	11/13/19	REVISED DRAWING (NEW TESTING)
7	8/18/20	UPDATE TO 7TH ED. (2020) FBC
6	8/09/17	UPDATE TO 6TH ED. (2017) FBC
5	7/18/16	UPDATE B.O.M. & ADD COMP. S.

BY: JK
 PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

PRODUCT: DOUBLE HUNG WINDOW

DATE: 11/12/13

SCALE: N.T.S.

DWG. BY: JK

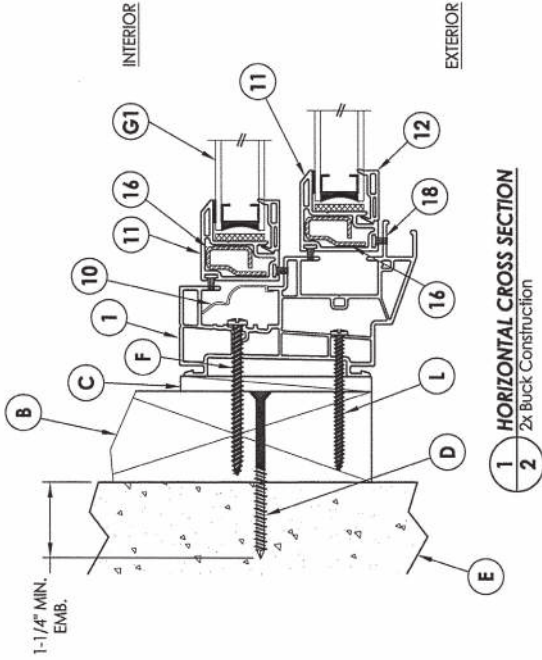
CHK. BY: LFS

DRAWING NO.: FL-11720.9

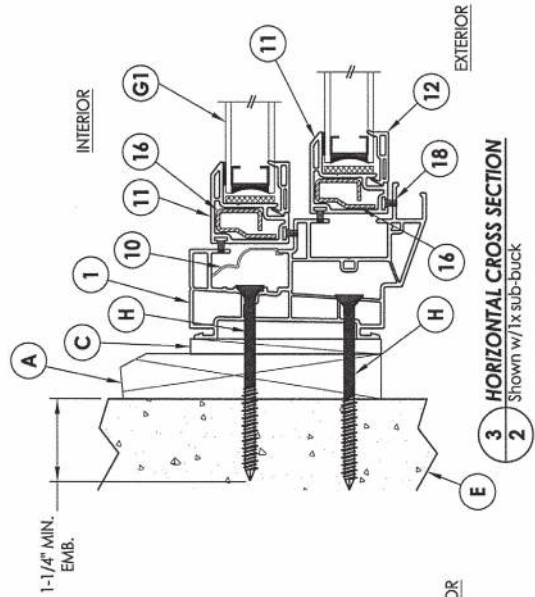
SHEET 1 OF 5

PROFESSIONAL ENGINEER
 L.F. SCHMIDT
 No. 43409
 State of Florida
 License
 September 24, 2020
 Documents Prepared By: Lyndon F. Schmidt
 P.E. No. 43409
 BUILDING CONSULTANTS, INC.
 P.O. Box 230, Vero Beach, FL 33595
 Phone No.: 813.659.9197
 FBPE Registry No. 9813

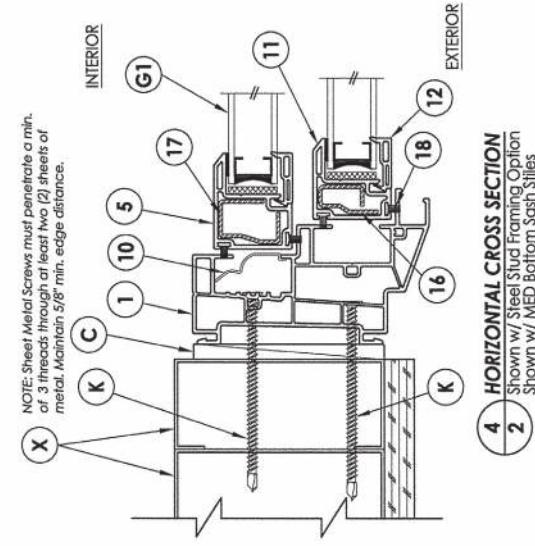
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1 HORIZONTAL CROSS SECTION



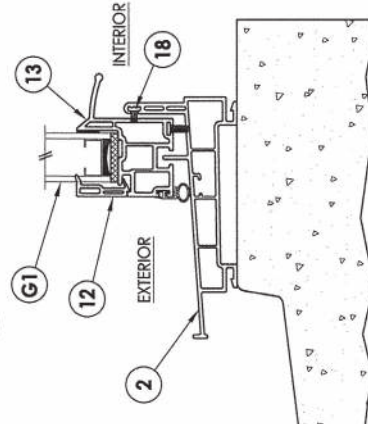
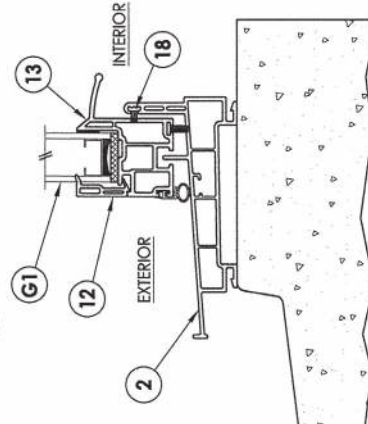
2 HORIZONTAL CROSS SECTION
2 Shown w/ Direct to Masonry Option



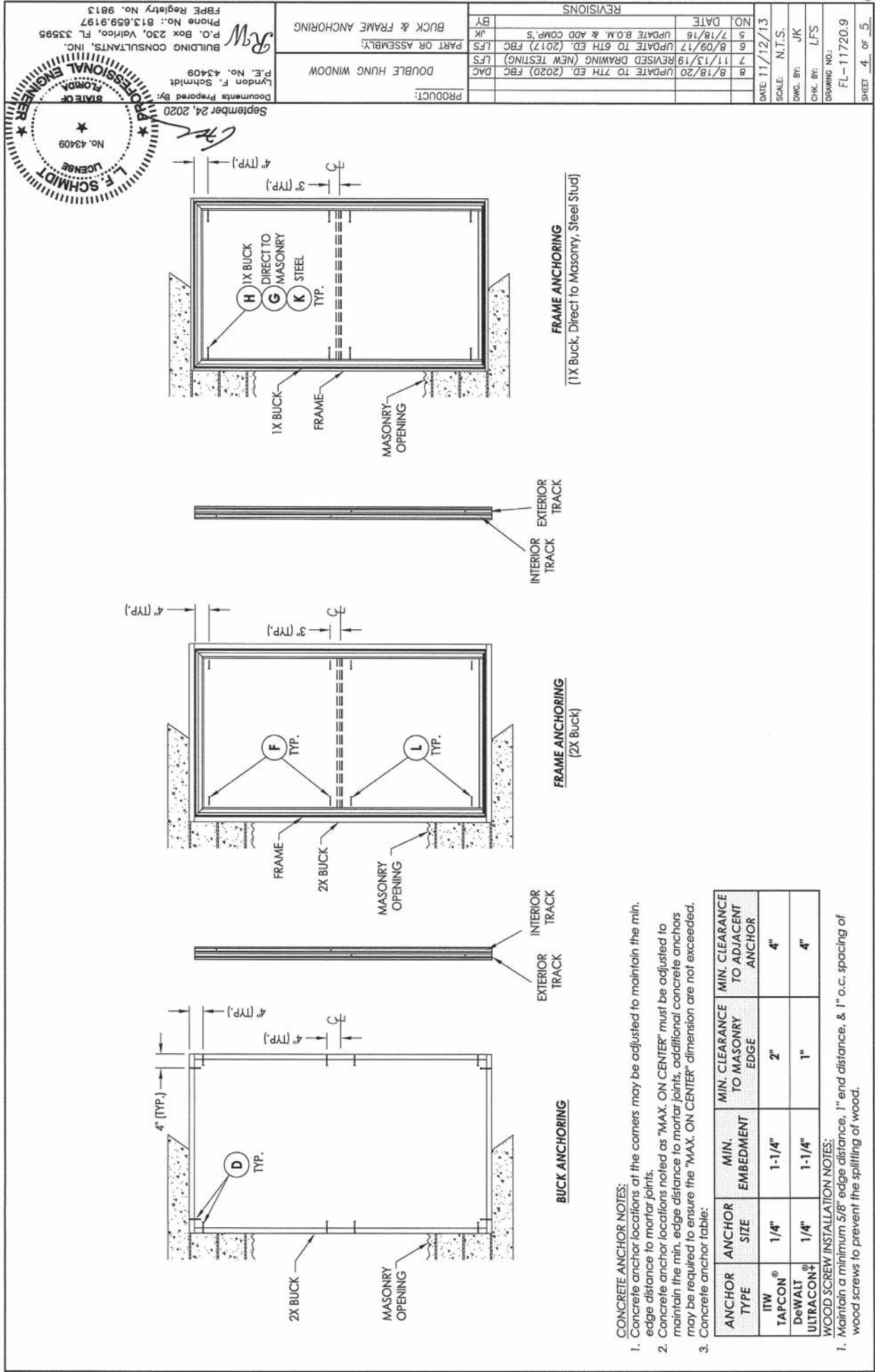
4 HORIZONTAL CROSS SECTION

PRODUCT:	DOUBLE HUNG WINDOW
PART OR ASSEMBLY:	VERTICAL CROSS SECTIONS

A circular professional engineer seal for the State of Florida. The outer ring contains the text "PROFESSIONAL ENGINEER" at the top and "STATE OF FLORIDA" at the bottom, separated by two stars. The inner circle contains the name "L.F. SCHMIDT" at the top, "LICENSE" at the bottom, and the license number "No. 43409" in the center.

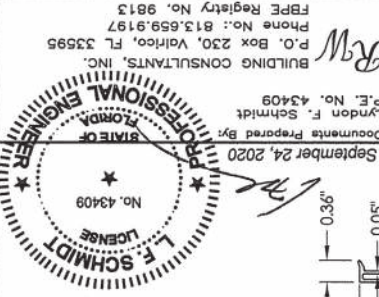
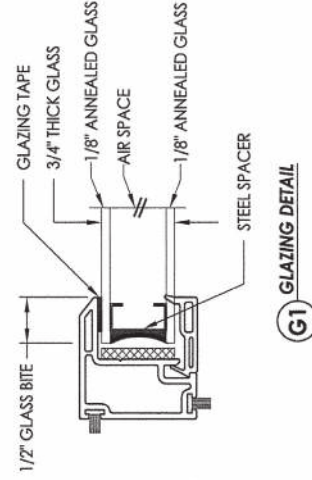
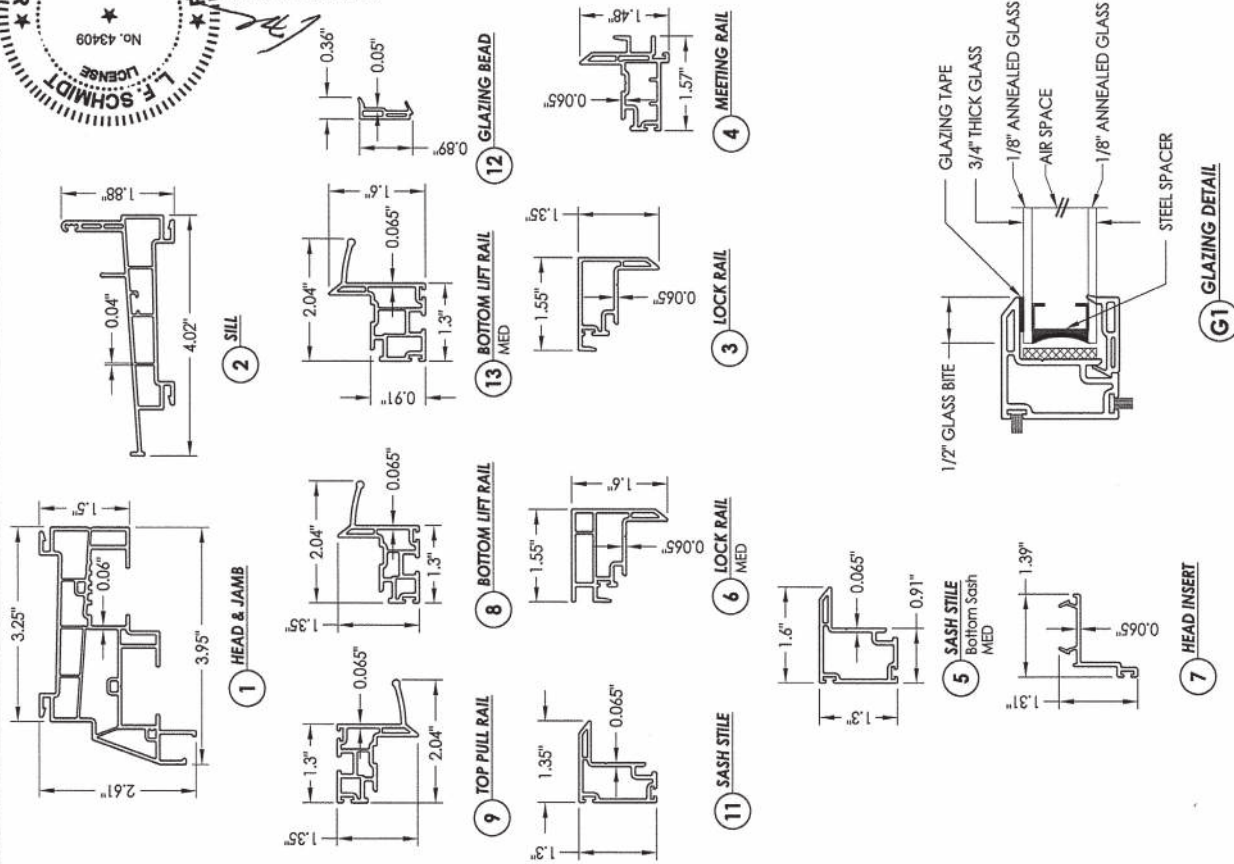
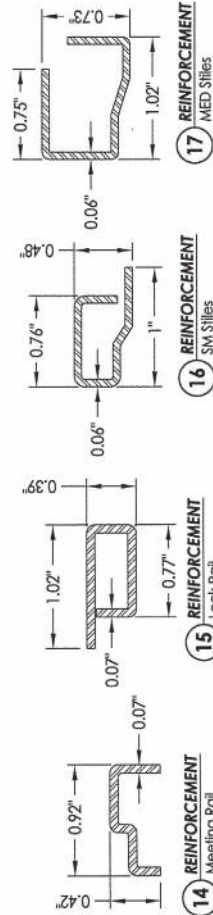


3	VERTICAL CROSS SECTION
3	Optional masonry sill Shown w/ MED Bottom Sash Rail



BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.42)	WOOD
B	2X BUCK (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PHH DEWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#10 X 2-1/2" PPH WOOD SCREW (1-3/8" MIN. EMBEDMENT)	STEEL
G	1/4" x 2-3/4" PHH DEWALT OR ITW CONCRETE SCREW	STEEL
H	1/4" X 3-1/4" PHH DEWALT OR ITW CONCRETE SCREW	STEEL
K	#10 PHH SELF-DRILLING SMS	STEEL
L	#10 X 2-1/4" PPH WOOD SCREW (1-5/16" MIN. EMBEDMENT)	STEEL
X	STEEL STUD Min. Thk .033" (ASTM A653 GRADE 33 Fy=33 Ksi Min, Fu=45 Ksi Min)	STEEL
1	EXTRUDED VINYL HEAD AND JAMB *	RIGID PVC
2	EXTRUDED VINYL SILL *	RIGID PVC
3	EXTRUDED VINYL LOCK RAIL *	RIGID PVC
4	EXTRUDED VINYL MEETING RAIL *	RIGID PVC
5	EXTRUDED VINYL SASH STILE (MED) *	RIGID PVC
6	EXTRUDED VINYL LOCK RAIL (MED) *	RIGID PVC
7	EXTRUDED VINYL HEAD INSERT *	RIGID PVC
8	EXTRUDED VINYL BOTTOM LIFT RAIL *	RIGID PVC
9	EXTRUDED VINYL TOP PULL RAIL *	RIGID PVC
10	BALANCE COVER	-
11	EXTRUDED VINYL SASH STILE *	RIGID PVC
12	GLAZING BEAD *	RIGID PVC
13	EXTRUDED VINYL BOTTOM LIFT RAIL (MED) *	RIGID PVC
14	REINFORCEMENT - MEETING RAIL	STEEL
15	REINFORCEMENT - LOCK RAIL	STEEL
16	REINFORCEMENT - SM. STILE	STEEL
17	REINFORCEMENT - MED. STILE	STEEL
18	WEATHERSTRIP (FIN PILE)	-
19	WEATHERSTRIP (VINYL BULB)	VINYL
20	CAM LOCK	STEEL

* THE APPROVED WHITE RIGID PVC EXTERIOR EXTRUSIONS FOR WINDOWS ARE TO BE PRODUCED BY EXTRUDERS LICENSEES IN "AAMA CERTIFICATION PROGRAMS FOR RIGID PVC EXTRUSIONS".



September 24, 2020
 Documents Prepared By:
 P.E. No. 43409
 L.F. Schmidt
 BUILDING CONSULTANTS, INC.
 P.O. Box 230, Vero Beach, FL 33595
 Phone No.: 813.659.9197
 FBPE Registry No. 9813

REVISIONS	
NO.	DATE
1	7/18/16
2	8/09/17
3	11/13/19
4	8/18/20
5	11/13/20
6	11/13/20
7	11/13/20
8	11/13/20
9	11/13/20
10	11/13/20
11	11/13/20
12	11/13/20
13	11/13/20
14	11/13/20
15	11/13/20
16	11/13/20
17	11/13/20
18	11/13/20
19	11/13/20
20	11/13/20

PRODUCT:	DOUBLE HUNG WINDOW
PART OR ASSEMBLY:	BILL OF MATERIALS, COMPONENTS
BY:	JK
DATE:	11/12/13
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-11720.9
SHEET	5 OF 5


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Code Version	2020	FL#	11141.27
Application Type	ALL	Product Manufacturer	ALL
Category	ALL	Subcategory	ALL
Application Status	ALL	Compliance Method	ALL
Quality Assurance Entity	ALL	Quality Assurance Entity Contract Expired	ALL
Product Model, Number or Name	ALL	Product Description	ALL
Approved for use in HVHZ	ALL	Approved for use outside HVHZ	ALL
Impact Resistant	ALL	Design Pressure	ALL
Other	ALL		

Search Results - Applications

FL#	Type	Manufacturer	Validated By	Status
FL11141-R21 History	Revision	Associated Materials Inc. FL#: FL11141.27 Model: za. Model 3002 / 3A02 "ST" Description: Extruded PVC Horizontal Sliding "Replacement" Window - "Non-Impact" (XX Configuration) Category: Windows Subcategory: Horizontal Slider	Ryan J. King, P.E. (813) 767-6555	Approved

*Approved by DBPR. Approvals by DBPR shall be reviewed and ratified by the POC and/or the Commission if necessary.

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FL #	FL11141-R21										
Application Type	Revision										
Code Version	2020										
Application Status	Approved										
Comments											
Archived	☐										
Product Manufacturer	Associated Materials Inc.										
Address/Phone/Email	3773 State Road Cuyahoga Falls, OH 44223 (330) 922-2108 rickw@rwbldgconsultants.com										
Authorized Signature	Vivian Wright rickw@rwbldgconsultants.com										
Technical Representative											
Address/Phone/Email											
Quality Assurance Representative											
Address/Phone/Email											
Category	Windows										
Subcategory	Horizontal Slider										
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer ☐ Evaluation Report - Hardcopy Received										
Florida Engineer or Architect Name who developed the Evaluation Report	Lyndon F. Schmidt, P.E.										
Florida License	PE-43409										
Quality Assurance Entity	Architectural Testing, Inc., an Intertek Company										
Quality Assurance Contract Expiration Date	12/31/2023										
Validated By	Ryan J. King, P.E. ☒ Validation Checklist - Hardcopy Received										
Certificate of Independence	FL11141_R21_COI_(e)_Certificate of Independence.pdf										
Referenced Standard and Year (of Standard)	<table> <thead> <tr> <th>Standard</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>AAMA/WDMA/CSA 101/I.S.2/A440</td> <td>2008</td> </tr> <tr> <td>AAMA/WDMA/CSA101/I.S.2/A440</td> <td>2011</td> </tr> <tr> <td>ASTM E1886</td> <td>2005</td> </tr> <tr> <td>ASTM E1996</td> <td>2012</td> </tr> </tbody> </table>	Standard	Year	AAMA/WDMA/CSA 101/I.S.2/A440	2008	AAMA/WDMA/CSA101/I.S.2/A440	2011	ASTM E1886	2005	ASTM E1996	2012
Standard	Year										
AAMA/WDMA/CSA 101/I.S.2/A440	2008										
AAMA/WDMA/CSA101/I.S.2/A440	2011										
ASTM E1886	2005										
ASTM E1996	2012										
Equivalence of Product Standards Certified By	Florida Licensed Professional Engineer or Architect FL11141_R21_Equiv_of Standards (e).pdf										
Sections from the Code											

 **ASSOCIATED MATERIALS**
I N C O R P O R A T E D
3773 STATE ROAD
CUYAHOGA FALLS, OH 44223

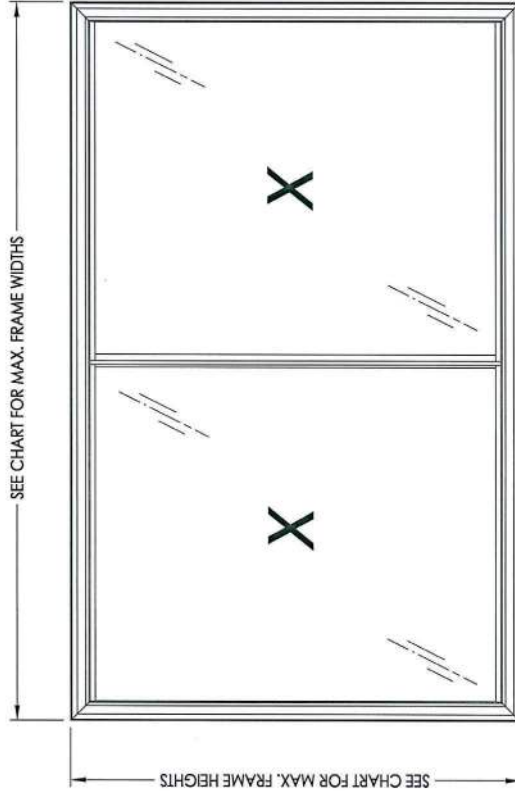
**MODEL 3002 / 3A02 "ST"
Extruded Vinyl Horizontal
Sliding "Replacement" Window
"NON-IMPACT"**

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 7th Edition (2020) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection this product is required to be protected with an impact resistant covering that complies with FBC Sections 1609.1.2 & R301.2.1.2.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Horizontal cross sections
3	Vertical cross sections
4	Buck & frame anchoring
5	Bill of materials, plating details and components

OVERALL FRAME DIMENSION	OVERALL DAY LIGHT DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
			POS.	NEG.
96.0" x 60.0"	44.37" x 53.37"	G1	+15.0	-15.0
84.0" x 72.0"	38.37" x 65.37"		+15.0	-15.0
72.0" x 56.0"	32.37" x 49.37"		+30.0	-30.0
72.0" x 48.0"	32.37" x 41.37"		+45.0	-45.0
63.0" x 44.0"	27.87" x 37.37"		+50.0	-50.0



SEE CHART FOR MAX. FRAME WIDTHS

SEE CHART FOR MAX. FRAME HEIGHTS

PRODUCT: HORIZONTAL SLIDER
PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

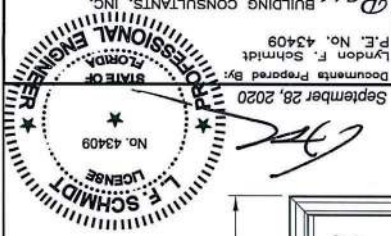
BY	7TH ED. (2020) FBC
LFS	6TH ED. (2017) FBC
DAC	

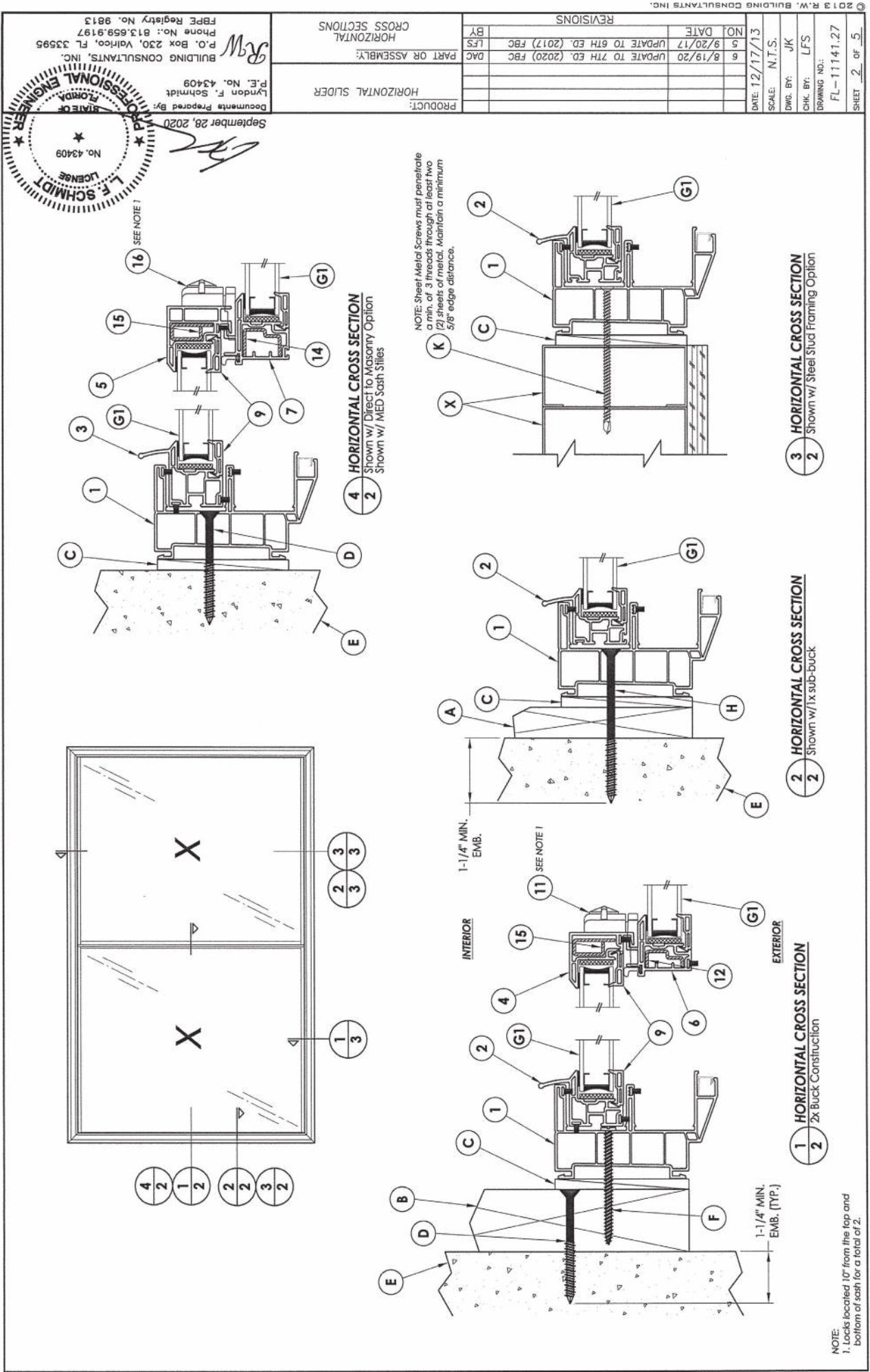
6	8/19/20	UPDATE TO	
5	9/20/17	UPDATE TO	
NO.	DATE		

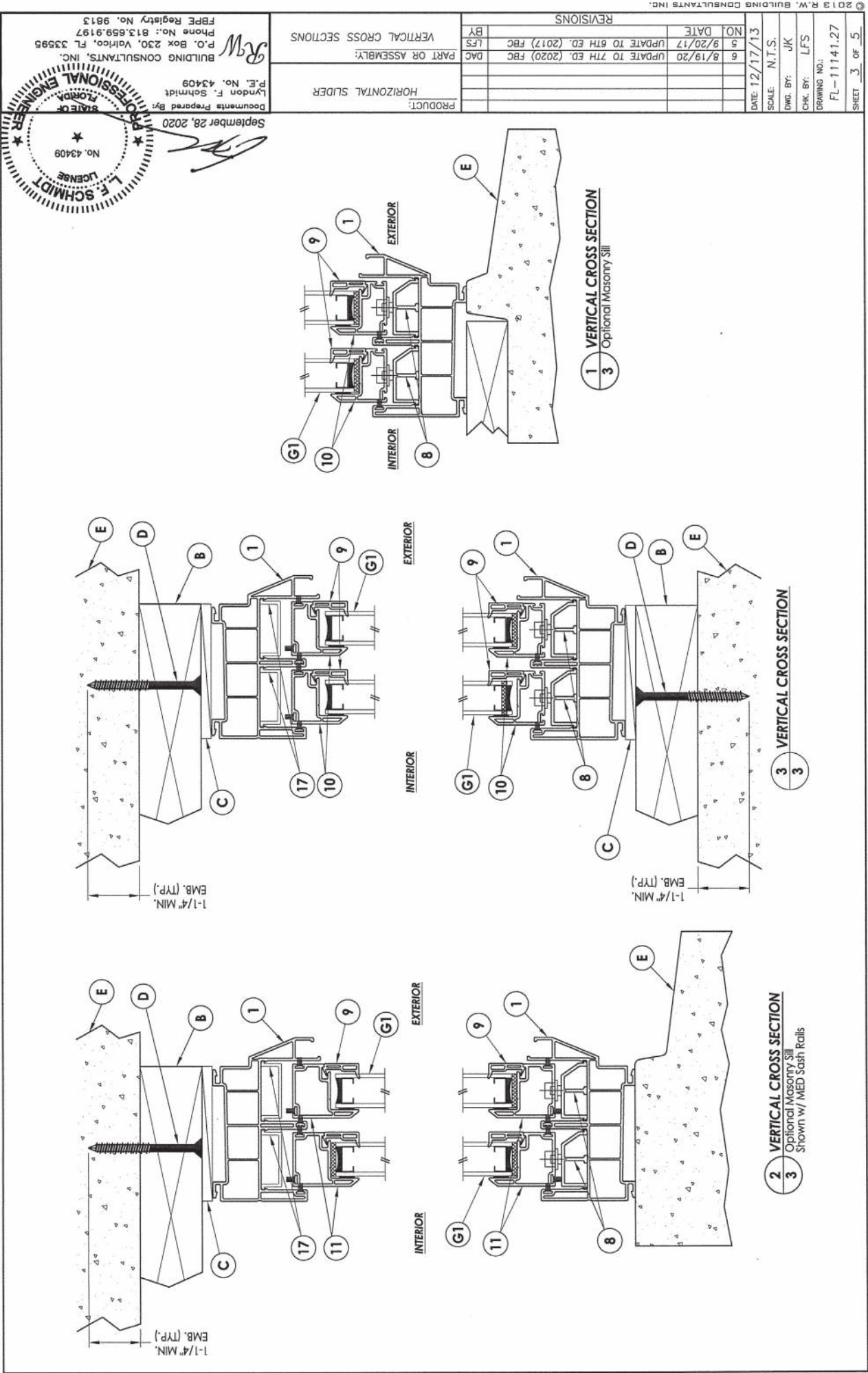
DATE: 12/17/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS

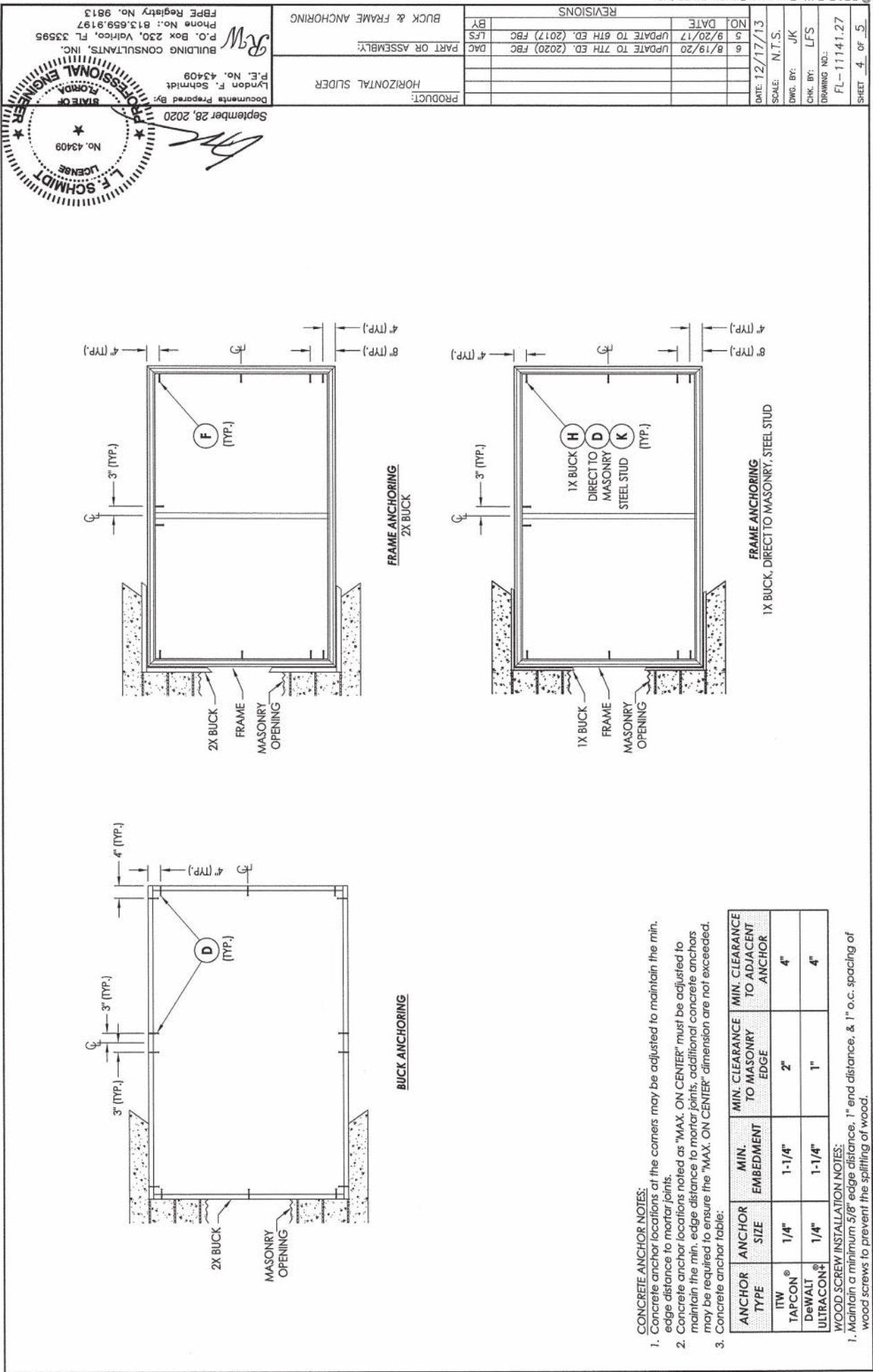
DRAWING NO.:	FL-11141.27
SHEET	1 OF 5

6



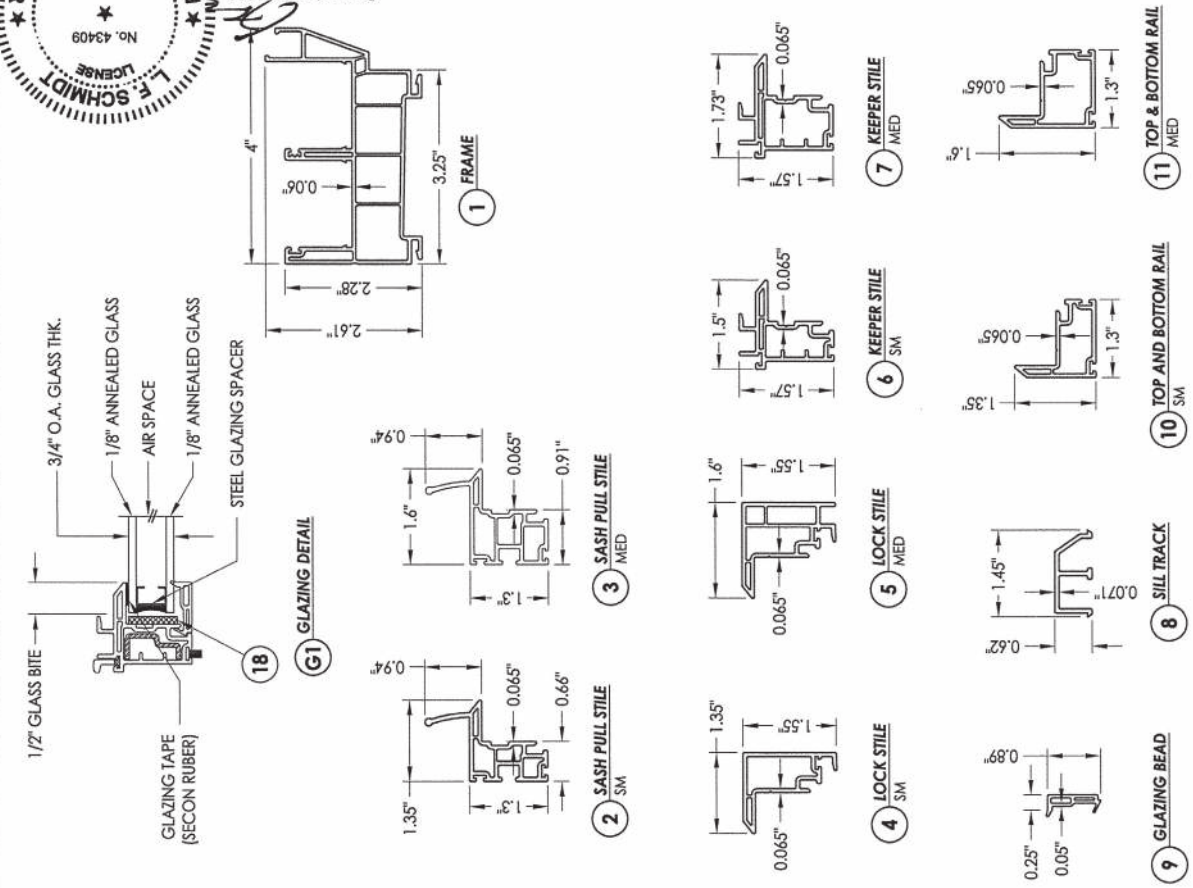






BILL OF MATERIALS	
ITEM #	DESCRIPTION
A	1X BUCK SG >= 0.42
B	2X BUCK SG >= 0.42
C	1/4" MAX. SHIM SPACE
D	1/4" X 3-3/4" PH DeWALT OR ITW CONCRETE SCREW
E	MASONRY - 3000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90
F	#8 X 2-3/4" PPH SMS (1-3/8" MIN. EMBEDMENT)
H	1/4" X 3-3/4" PH DeWALT OR ITW CONCRETE SCREW
K	#10 PPH SELF-DRILLING SMS
X	STEEL STUD Min. Thk .033" (ASTM A653 GRADE 33 Fy=33 Ksi Min, Fu=45 Ksi Min)
1	EXTRUDED VINYL FRAME *
2	EXTRUDED VINYL SASH PULL STILE (SM) *
3	EXTRUDED VINYL SASH PULL STILE (MED) *
4	EXTRUDED VINYL LOCK STILE (SM) *
5	EXTRUDED VINYL LOCK STILE (MED) *
6	EXTRUDED VINYL KEEPER STILE (SM) *
7	EXTRUDED VINYL KEEPER STILE (MED) *
8	EXTRUDED VINYL SILL TRACK *
9	EXTRUDED VINYL GLAZING BEAD *
10	EXTRUDED VINYL TOP AND BOTTOM RAIL (SM) *
11	EXTRUDED VINYL TOP AND BOTTOM RAIL (MED) *
12	SASH REINFORCEMENT (SM)
14	SASH REINFORCEMENT (Med)
15	SASH REINFORCEMENT
16	LOCK
17	ANTI LIFT BLOCK*
18	SETTING BLOCK

*THE APPROVED WHITE RIGID PVC EXTERIOR EXTRUSIONS FOR WINDOWS ARE TO BE PRODUCED BY EXTRUDERS LICENSEES IN "AAMA CERTIFICATION PROGRAMS FOR RIGID PVC EXTRUSIONS."



REVISIONS

NO.	DATE	DESCRIPTION
6	8/19/20	UPDATE TO 7TH ED. (2020) FBC
5	9/20/17	UPDATE TO 6TH ED. (2017) FBC

PRODUCT: HORIZONTAL SLIDER

PART OR ASSEMBLY: DETAIL & COMPONENTS

BILL OF MATERIALS, GLAZING

DATE: 12/17/13

SCALE: N.T.S.

DWG. BY: J/K

CHK. BY: LFS

DRAWING NO.: FL-11141.27

SHEET 5 **OF** 5

PROFESSIONAL ENGINEER

L.F. SCHMIDT

FLORIDA

License No. 43409

September 28, 2020

Documents Prepared By: Lyndon F. Schmidt

P.E. No. 43409

BUILDING CONSULTANTS, INC.

P.O. Box 230, Vero Beach, FL 33595

Phone No.: 813.659.9197

FBPE Registry No. 9813


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Product Approval

USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**

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FL #	FL12078-R7
Application Type	Revision
Code Version	2020
Application Status	Approved
Comments	
Archived	☐
Product Manufacturer	Associated Materials Inc.
Address/Phone/Email	3773 State Road Cuyahoga Falls, OH 44223 (330) 922-2108 rickw@rwbldgconsultants.com
Authorized Signature	Vivian Wright rickw@rwbldgconsultants.com
Technical Representative	
Address/Phone/Email	
Quality Assurance Representative	
Address/Phone/Email	
Category	Windows
Subcategory	Mullions
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer ☐ Evaluation Report - Hardcopy Received
Florida Engineer or Architect Name who developed the Evaluation Report	Lyndon F. Schmidt, P.E.
Florida License	PE-43409
Quality Assurance Entity	Architectural Testing, Inc., an Intertek Company
Quality Assurance Contract Expiration Date	12/31/2021
Validated By	Ryan J. King, P.E. ☒ Validation Checklist - Hardcopy Received
Certificate of Independence	FL12078 R7 COI (b) Certificate of Independence.pdf
Referenced Standard and Year (of Standard)	
Equivalence of Product Standards Certified By	
Sections from the Code	1709.8
Product Approval Method	Method 2 Option B


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Product Approval
 USER: Public User

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Search Criteria
[Refine Search](#)

Code Version	2020	FL#	12078.5
Application Type	ALL	Product Manufacturer	ALL
Category	ALL	Subcategory	ALL
Application Status	ALL	Compliance Method	ALL
Quality Assurance Entity	ALL	Quality Assurance Entity Contract Expired	ALL
Product Model, Number or Name	ALL	Product Description	ALL
Approved for use in HVHZ	ALL	Approved for use outside HVHZ	ALL
Impact Resistant	ALL	Design Pressure	ALL
Other	ALL		

Search Results - Applications

FL#	Type	Manufacturer	Validated By	Status
FL12078-R7 History	Revision	Associated Materials Inc. FL#: FL12078.5 Model: e. "I" Series Structural Mullion Description: Extruded Aluminum Clipped Mullion for use on Wood and Masonry Openings utilizing the Goal Post (at Head and Sill) Style Mounting Brackets Category: Windows Subcategory: Mullions	Ryan J. King, P.E. (813) 767-6555	Approved

*Approved by DBPR. Approvals by DBPR shall be reviewed and ratified by the POC and/or the Commission if necessary.

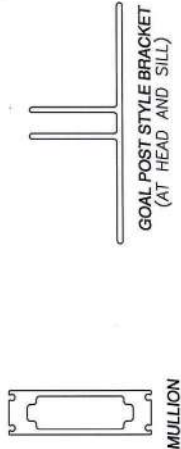
[Contact Us](#) :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

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Product Approval Accepts:

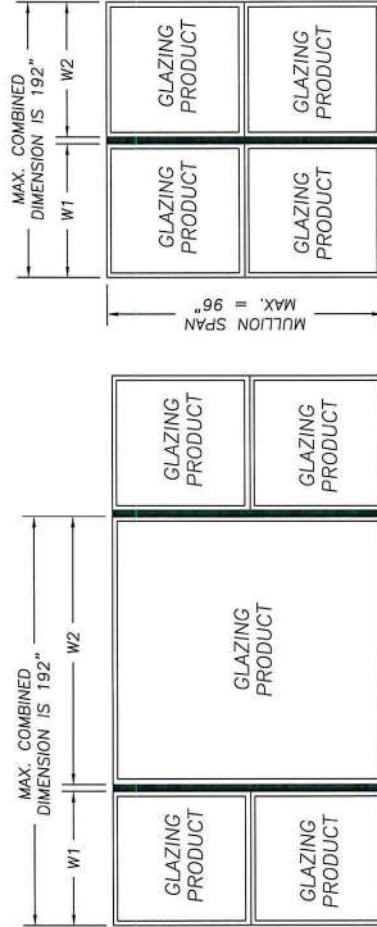
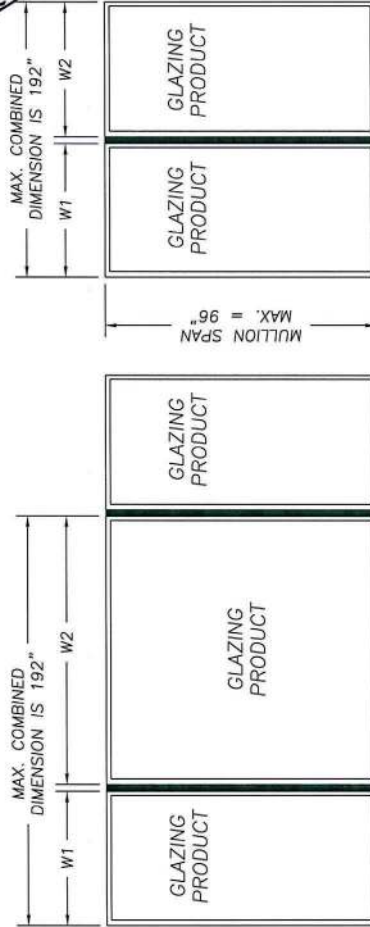

"I" SERIES STRUCTURAL MULLION



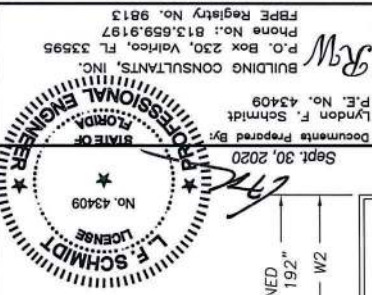
GENERAL NOTES:

- This product has been evaluated and is in compliance with the 7th Edition (2020) Florida Building Code (FBC) excluding the "High Velocity Hurricane Zone" and conforms to the requirements of FBC Chapter 17.
- Wood bucks by others, must be anchored properly to transfer loads to the structure and be reviewed by the Building Official.
- Mullion anchor embedment to base material shall be beyond wall dressing or stucco.
- When used in areas requiring wind borne debris protection, this product does not require protection from an impact resistant covering when used in Wind Zones 1, 2 and 3 as defined by ASTM E 1996; in Wind Zone 4, as defined by ASTM E 1996, this product must be protected with an impact resistant covering complying with FBC Sections 1609.1.2 & R301.2.1.2.
- Separate product approvals for each glazing product used with these mullions must be submitted along with this mullion product approval.
- Anchoring of each glazing product to the mullion shall be as shown in each individual glazing product approval.
- Any conditions not covered in this evaluation are subject to separate engineering evaluation.
- Mullion Design Pressure Rating, see Load Rating Table Sheets 2 and 3 of this drawing.
- The design pressure rating of the assembly shall be the lesser of the load capacity of the mullion as determined using this approval or the design pressure rating of the individual glazing products used.
- Bounding box dimensions for geometric shapes must be equal to or less than the rectangular dimensions shown herein.

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	TYPICAL ELEVATIONS & GENERAL NOTES
2	MULLION LOAD TABLE FOR WOOD SCREW ANCHORS
3	MULLION LOAD TABLE FOR CONCRETE SCREW ANCHORS
4	MULLION SECTION & ANCHOR DETAILS



TYPICAL MULLION CONFIGURATIONS



Product: STRUCTURAL MULLION
 Part or Assembly: TYPICAL ELEVATION AND GENERAL NOTES
 P.E. No. 43409
 Lyndon F. Schmidt
 Documents Prepared By:
 BUILDING CONSULTANTS, INC.
 P.O. Box 230, Vero Beach, FL 33595
 Phone No.: 813.659.9197
 FBPE Registry No. 9813

REVISIONS	
NO.	DATE
1	11/08/11
2	3/03/15
3	5/09/16
4	7/27/17
5	9/30/20
6	11/08/20
7	11/08/20
8	11/08/20
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98	11/08/20
99	11/08/20
100	11/08/20

WOOD SCREW ANCHORS

1" SERIES STRUCTURAL MULLION LOAD TABLE (PSF)

TRIBUTARY WIDTH

	24"	30"	36"	40"	46"	50"	54"	60"	66"	72"	78"	84"	96"
96"	58.0	47.0	40.0	36.0	32.0	30.0	28.0	26.0	24.0	22.0	20.0	19.0	17.0
94"	62.0	51.0	43.0	39.0	35.0	32.0	30.0	27.0	25.0	23.0	22.0	20.0	18.0
92"	66.0	54.0	46.0	42.0	37.0	34.0	32.0	29.0	27.0	25.0	23.0	22.0	19.0
90"	71.0	58.0	49.0	45.0	40.0	37.0	35.0	31.0	29.0	27.0	25.0	23.0	20.0
88"	75.0	62.0	53.0	48.0	43.0	40.0	37.0	34.0	31.0	29.0	27.0	25.0	22.0
86"	75.0	67.0	57.0	52.0	46.0	43.0	40.0	36.0	33.0	31.0	29.0	27.0	24.0
84"	75.0	72.0	61.0	56.0	49.0	46.0	43.0	39.0	36.0	33.0	31.0	29.0	25.0
82"	75.0	75.0	66.0	60.0	53.0	50.0	46.0	42.0	39.0	36.0	33.0	31.0	27.0
80"	75.0	75.0	71.0	65.0	58.0	54.0	50.0	46.0	42.0	39.0	36.0	34.0	30.0
78"	75.0	75.0	75.0	71.0	63.0	58.0	54.0	49.0	45.0	42.0	39.0	36.0	32.0
76"	75.0	75.0	75.0	75.0	68.0	63.0	59.0	54.0	49.0	45.0	42.0	39.0	35.0
74"	75.0	75.0	75.0	75.0	74.0	69.0	64.0	58.0	53.0	49.0	46.0	43.0	38.0
72"	75.0	75.0	75.0	75.0	75.0	75.0	70.0	64.0	58.0	54.0	50.0	47.0	41.0
70"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	69.0	64.0	59.0	55.0	51.0	45.0
68"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	70.0	64.0	59.0	55.0	48.0
66"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	74.0	68.0	63.0	58.0	51.0
64"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	72.0	67.0	62.0	54.0
62"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	71.0	66.0	58.0
60"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	71.0	62.0
58"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	66.0
56"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	69.0
54"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	72.0
52"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
50"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
48"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
40"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0

TRIBUTARY WIDTH = $\frac{W1 + W2}{2}$

GLAZING PRODUCT

GLAZING PRODUCT

GLAZING PRODUCT

GLAZING PRODUCT

GLAZING PRODUCT

GLAZING PRODUCT

GLAZING PRODUCT

GLAZING PRODUCT

GLAZING PRODUCT

GLAZING PRODUCT

GLAZING PRODUCT

GLAZING PRODUCT

GLAZING PRODUCT

GLAZING PRODUCT

MAX. = 96"

MAX. = 96"

MULLION SPAN

MULLION SPAN

MULLION SPAN

MULLION SPAN

MULLION SPAN

MULLION SPAN

MULLION SPAN

MULLION SPAN

MULLION SPAN

MULLION SPAN

MULLION SPAN

MULLION SPAN

MULLION SPAN

INSTRUCTIONS FOR USE OF THE MULLION LOAD TABLE:

1. DETERMINE THE DESIGN LOAD REQUIREMENT FOR THE PARTICULAR OPENING AS SPECIFIED BY THE BUILDING DESIGNER (ARCHITECT OR ENGINEER OR RECORD).

2. FOR THE PARTICULAR OPENING, DETERMINE THE TRIBUTARY WIDTH AND MULLION SPAN. REFERENCE THE SKETCHES ON THIS SHEET FOR MULLION SPAN AND TRIBUTARY WIDTH DETERMINATION.

3. IN THE FIRST COLUMN OF THE TABLE, LOCATE THE MULLION SPAN. IN THE FIRST ROW OF THE TABLE, LOCATE THE TRIBUTARY WIDTH. AT THE INTERSECTION OF THE ROW CONTAINING THE MULLION SPAN AND THE COLUMN CONTAINING THE TRIBUTARY WIDTH, READ THE MULLION LOAD RATING GIVEN IN PSF. THE MULLION LOAD RATING MUST BE EQUAL TO OR GREATER THAN THE DESIGN LOAD REQUIREMENT DETERMINED IN STEP 1 ABOVE.

FOR ANCHORING GLAZING PRODUCTS TO THE MULLION, ANCHOR SIZE AND SPACING SHALL BE AS SPECIFIED IN ONE OF THE FOLLOWING:

1. SUBSTITUTE (1 FOR 1) 1/4"-14 SELF-DRILLING SCREWS FOR THE FASTENERS SHOWN IN THE INDIVIDUAL GLAZING PRODUCT APPROVAL.

2. SUBSTITUTE #8-18 PANHEAD SELF-DRILLING SCREWS FOR THE FASTENERS SHOWN IN THE INDIVIDUAL GLAZING PRODUCT APPROVAL. MAXIMUM FASTENER SPACING ALLOWED IS 6" FROM EACH END AND AT 15" O.C. MAX. SPACING.

NOTE: A MINIMUM OF 3 THREADS OF THE SELF-DRILLING SCREWS MUST PROTRUDE THROUGH THE WALL OF THE MULLION. THIS SECTION VIEW IS SHOWN FOR ILLUSTRATIVE PURPOSES; OTHER FRAME SECTIONS OF FLORIDA APPROVED WINDOWS BY ALSIDE WINDOWS CAN BE USED IN THIS FASHION.

SECTION THRU MULLION & FRAME

GLAZING PRODUCT

GLAZING PRODUCT

GLAZING PRODUCT

GLAZING PRODUCT

GLAZING PRODUCT

GLAZING PRODUCT

GLAZING PRODUCT

GLAZING PRODUCT

GLAZING PRODUCT

GLAZING PRODUCT

GLAZING PRODUCT

GLAZING PRODUCT

GLAZING PRODUCT

GLAZING PRODUCT

MAX. = 96"

MAX. = 96"

MULLION SPAN

MULLION SPAN

MULLION SPAN

MULLION SPAN

MULLION SPAN

MULLION SPAN

MULLION SPAN

MULLION SPAN

MULLION SPAN

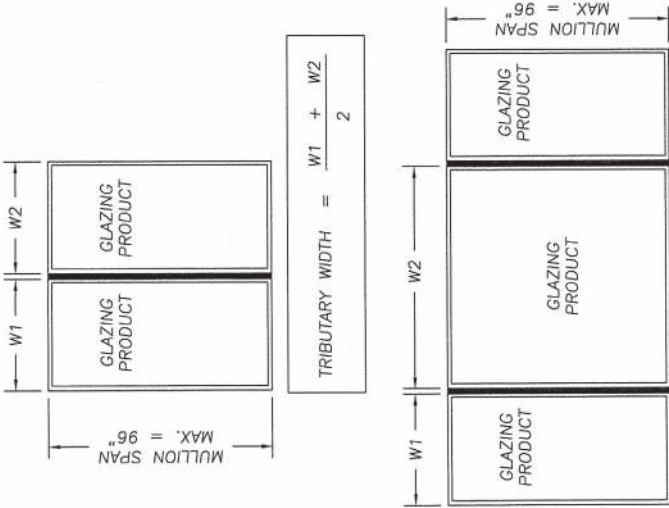
MULLION SPAN

MULLION SPAN

MULLION SPAN

MULLION SPAN

R:\Clients\Associated PERMANENT A - Florida Product Approvals\FL-12078 Windows - Mullions\c - Drawings\FL-12078 (2020)\FL-12078.1-7.dwg, 5-2



CONCRETE SCREW ANCHORS		T" SERIES STRUCTURAL MULLION LOAD TABLE (PSF)													
		TRIBUTARY WIDTH													
		24"	30"	36"	40"	46"	50"	54"	60"	66"	72"	78"	84"	96"	
96"		57.0	47.0	40.0	36.0	32.0	30.0	28.0	26.0	24.0	22.0	20.0	19.0	17.0	
94"		58.0	48.0	42.0	38.0	35.0	32.0	30.0	27.0	25.0	23.0	22.0	20.0	18.0	
92"		60.0	49.0	43.0	40.0	36.0	34.0	32.0	29.0	27.0	25.0	23.0	22.0	19.0	
90"		61.0	51.0	44.0	41.0	37.0	35.0	33.0	31.0	28.0	27.0	25.0	23.0	20.0	
88"		63.0	52.0	45.0	42.0	38.0	36.0	34.0	31.0	29.0	27.0	26.0	24.0	22.0	
86"		64.0	54.0	47.0	43.0	39.0	37.0	35.0	32.0	30.0	28.0	26.0	25.0	22.0	
84"		66.0	55.0	48.0	45.0	40.0	38.0	36.0	33.0	31.0	29.0	27.0	26.0	23.0	
82"		68.0	57.0	50.0	46.0	42.0	39.0	37.0	34.0	32.0	30.0	28.0	26.0	24.0	
80"		70.0	59.0	51.0	48.0	43.0	41.0	38.0	36.0	33.0	31.0	29.0	27.0	24.0	
78"		72.0	60.0	53.0	49.0	45.0	42.0	40.0	37.0	34.0	32.0	30.0	28.0	25.0	
76"		75.0	62.0	55.0	51.0	46.0	43.0	41.0	38.0	35.0	33.0	31.0	29.0	26.0	
74"		75.0	65.0	57.0	53.0	48.0	45.0	42.0	39.0	36.0	34.0	32.0	30.0	27.0	
72"		75.0	67.0	59.0	55.0	50.0	47.0	44.0	41.0	38.0	35.0	33.0	31.0	28.0	
70"		75.0	68.0	61.0	57.0	51.0	48.0	46.0	42.0	39.0	36.0	34.0	32.0	28.0	
68"		75.0	72.0	63.0	59.0	53.0	50.0	47.0	44.0	40.0	38.0	35.0	33.0	29.0	
66"		75.0	75.0	66.0	61.0	55.0	52.0	49.0	45.0	42.0	39.0	36.0	34.0	31.0	
64"		75.0	75.0	69.0	64.0	58.0	54.0	51.0	47.0	43.0	40.0	38.0	36.0	32.0	
62"		75.0	75.0	72.0	66.0	60.0	56.0	53.0	49.0	45.0	42.0	39.0	37.0	33.0	
60"		75.0	75.0	75.0	69.0	62.0	58.0	55.0	51.0	47.0	44.0	41.0	38.0	34.0	
58"		75.0	75.0	75.0	72.0	65.0	61.0	57.0	53.0	49.0	45.0	42.0	40.0	35.0	
56"		75.0	75.0	75.0	75.0	68.0	64.0	60.0	55.0	51.0	47.0	44.0	41.0	37.0	
54"		75.0	75.0	75.0	75.0	71.0	67.0	63.0	58.0	53.0	49.0	46.0	43.0	38.0	
52"		75.0	75.0	75.0	75.0	75.0	70.0	66.0	60.0	56.0	52.0	48.0	45.0	40.0	
50"		75.0	75.0	75.0	75.0	75.0	73.0	69.0	63.0	58.0	54.0	50.0	47.0	42.0	
48"		75.0	75.0	75.0	75.0	75.0	75.0	72.0	66.0	61.0	57.0	53.0	50.0	44.0	
46"		75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	70.0	65.0	61.0	54.0	
MULLION SPAN															

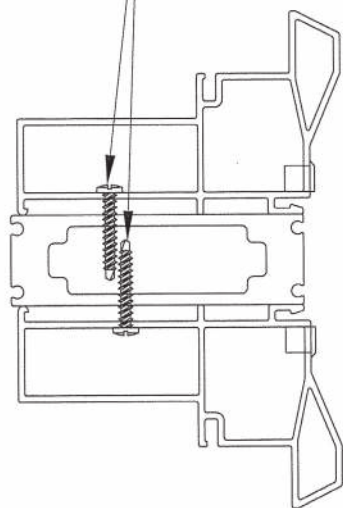
INSTRUCTIONS FOR USE OF THE MULLION LOAD TABLE:

1. DETERMINE THE DESIGN LOAD REQUIREMENT FOR THE PARTICULAR OPENING AS SPECIFIED BY THE BUILDING DESIGNER (ARCHITECT OR ENGINEER OR RECORD).
2. FOR THE PARTICULAR OPENING, DETERMINE THE TRIBUTARY WIDTH AND MULLION SPAN. REFERENCE THE SKETCHES ON THIS SHEET FOR MULLION SPAN AND TRIBUTARY WIDTH DETERMINATION.
3. IN THE FIRST COLUMN OF THE TABLE, LOCATE THE MULLION SPAN. IN THE FIRST ROW OF THE TABLE, LOCATE THE TRIBUTARY WIDTH. AT THE INTERSECTION OF THE ROW CONTAINING THE MULLION SPAN AND THE COLUMN CONTAINING THE TRIBUTARY WIDTH, READ THE MULLION LOAD RATING GIVEN IN PSF. THE MULLION LOAD RATING MUST BE EQUAL TO OR GREATER THAN THE DESIGN LOAD REQUIREMENT DETERMINED IN STEP 1 ABOVE.

FOR ANCHORING GLAZING PRODUCTS TO THE MULLION, ANCHOR SIZE AND SPACING SHALL BE AS SPECIFIED IN ONE OF THE FOLLOWING:

1. SUBSTITUTE (1 FOR 1) 1/4"-14 SELF-DRILLING SCREWS FOR THE FASTENERS SHOWN IN THE INDIVIDUAL GLAZING PRODUCT APPROVAL.
2. SUBSTITUTE #8-18 PANHEAD SELF-DRILLING SCREWS FOR THE FASTENERS SHOWN IN THE INDIVIDUAL GLAZING PRODUCT APPROVAL. MAXIMUM FASTENER SPACING ALLOWED IS 6" FROM EACH END AND AT 15" O.C. MAX. SPACING.

NOTE: A MINIMUM OF 3 THREADS OF THE SELF-DRILLING SCREWS MUST PROTRUDE THROUGH THE WALL OF THE MULLION. THIS SECTION VIEW IS SHOWN FOR ILLUSTRATIVE PURPOSES; OTHER FRAME SECTIONS OF FLORIDA APPROVED WINDOWS BY ALSIDE WINDOWS CAN BE USED IN THIS FASHION.



REVISIONS

NO.	DATE	DESCRIPTION
1	11/08/11	UPDATE TO 2010 FBC
2	3/03/15	UPDATE TO 5TH ED. (2014) FBC
3	5/09/16	REVISE ANCHOR BRACKET
4	7/27/17	UPDATE TO 6TH ED. (2017) FBC
5	9/30/20	UPDATE TO 7TH ED. (2020) FBC

PRODUCT: STRUCTURAL MULLION

PART OR ASSEMBLY: MULLION LOAD TABLE FOR CONCRETE SCREW ANCHORS

BY: JK

DATE: 11/08/11

DATE: 01/28/09

SCALE: NTS

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-12078.5

SHEET 3 of 4

FLORIDA PROFESSIONAL ENGINEER

STATE OF FLORIDA

NO. 43409

L.F. SCHMIDT

Sept. 30, 2020

Documents Prepared By: Lyndon F. Schmidt

P.E. No. 43409

BUILDING CONSULTANTS, INC.

P.O. Box 230, Venice, FL 33595

Phone No.: 813.658.9197

FBPE Registry No. 9813

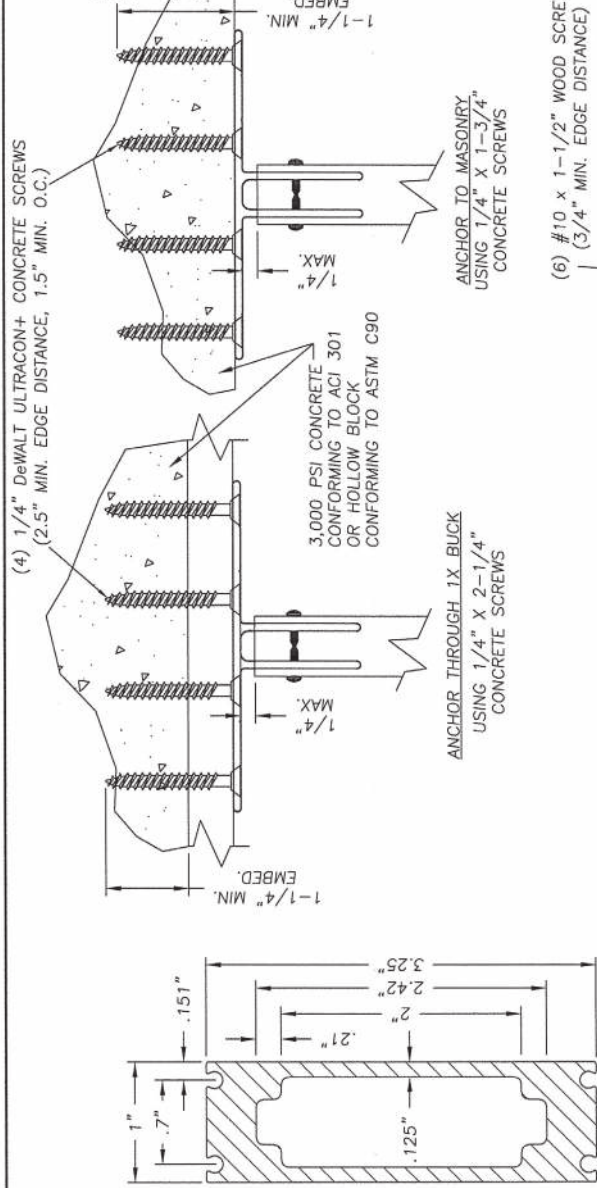
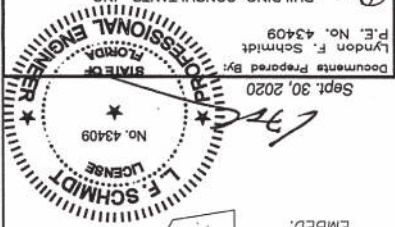
DATE	01/28/20	SCALE	NTS	DWG. BY	JK	DRAWN BY	LFS	CHECK NO.	FL-12078.5	SHEET	4	OF	4
NO.	1	2	3	4	5	6	7	8	9	10	11	12	13
NO.	11/08/11	5/03/15	5/27/17	7/22/17	9/30/20	UPDATE TO 7TH ED. (2020) FBC	UPDATE TO 6TH ED. (2017) FBC	REVERSE ANCHOR BRACKET	UPDATE TO 5TH ED. (2014) FBC	UPDATE TO 2010 FBC	REVISED	BY	

PRODUCT: STRUCTURAL TRANSOM

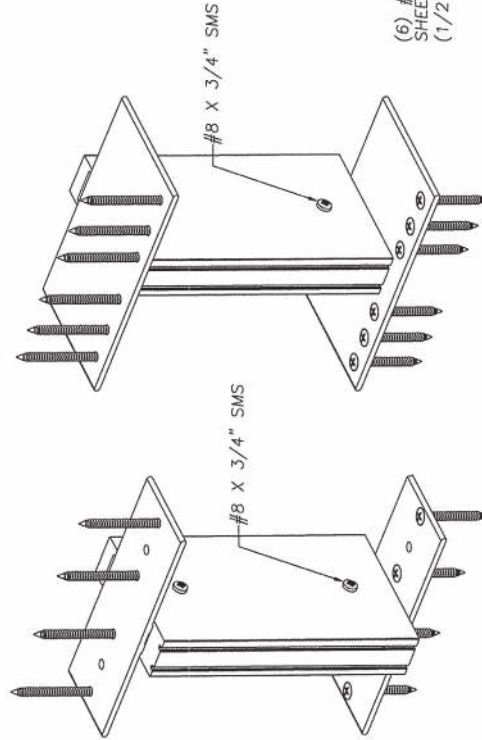
PART OR ASSEMBLY:

MULLION SECTION & ANCHOR DETAILS

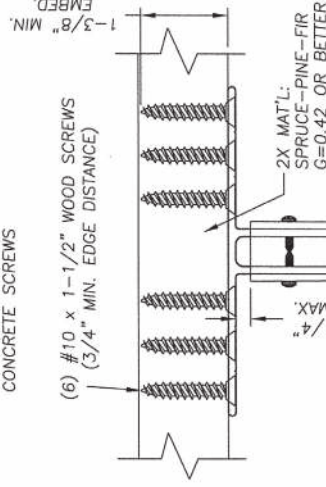
R.W.
 BUILDING CONSULTANTS, INC.
 P.O. Box 230, Valrico, FL 33595
 Phone No.: 813.659.9197
 FPEE Registry No. 9813



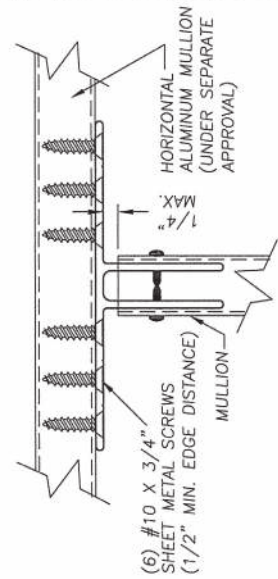
MULLION
MAT'L: 6063-T6



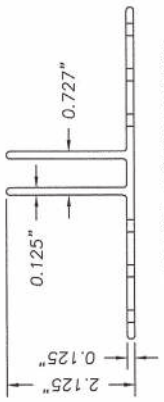
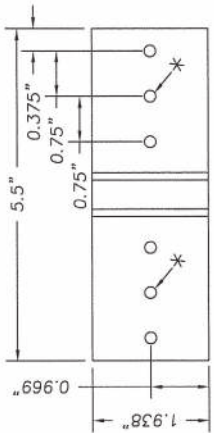
BASIC MULLION BRACKET ANCHORING
FOR CONCRETE SCREW CONNECTIONS &
SMS SCREW (MULL TO MULL) CONNECTIONS
(OFFSET BRACKET SHOWN)



ANCHOR TO 2X STUD OR TO 2X BUCK
USING #10 X 1-1/2" WOOD SCREWS

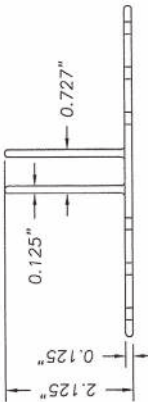
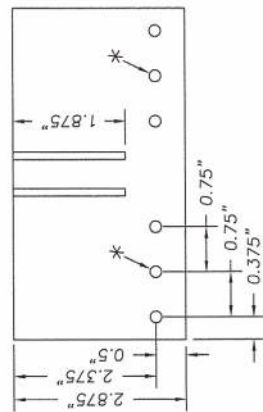


MULLION TO MULLION ANCHORING



MULLION ANCHOR BRACKET
MAT'L: 6063-T6

* DO NOT USE CENTER HOLE FOR CONCRETE SCREW INSTALLATION



MULLION ANCHOR OFFSET BRACKET
MAT'L: 6063-T6