



COLUMBIA COUNTY PRODUCT APPROVAL SPECIFICATION SHEET

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 at 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	Wincore	Double Hung Window	15819.8
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION	Wincore	Mullion	16542.1
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-STRUCT METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCT COMPONENTS			
A. WOOD CONNECTORS			
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR			
A. 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 manufacturer's installation requirements. Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.

3/25/2024

APPLICANT SIGNATURE

DATE

FLORIDA DEPARTMENT OF
Business & Professional Regulation



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Product Approval
USER: Public User

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

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SECRETARY

Search Criteria

[Refine Search](#)

Code Version	2023	FL#	15819.8
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
FL15819-R12 History	Revision	Wincore Window Company, LLC FL#: FL15819.8 Model: h. 7700 / 9000 Series Vinyl Double Hung Window Description: Extruded PVC Double Hung Window with "Non-Impact" Insulated Glass 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.

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

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Product Approval Accepts:



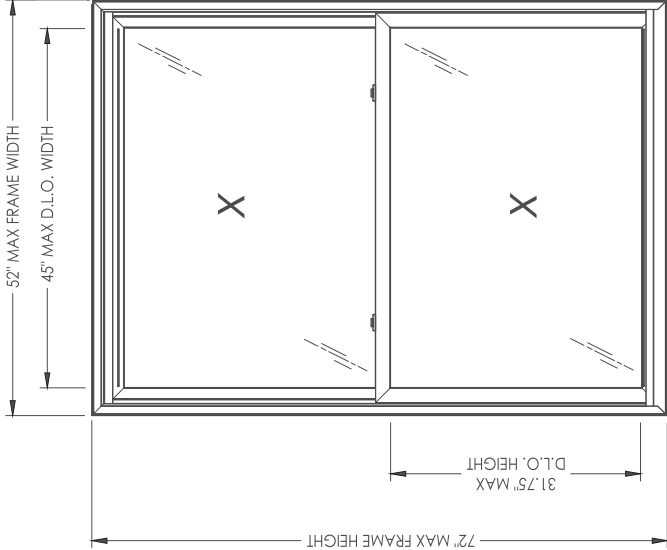


7700 / 9900 Series
Vinyl Double Hung
Window
"NON-IMPACT"

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 8th Edition (2023) 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 and general notes
2	Horizontal cross sections
3	Vertical cross sections
4	Buck and frame anchoring
5	Bill of materials, components & glazing details



Digitally signed by Lyndon F Schmidt
Date: 2023.07.06 10:02:20 -0400'

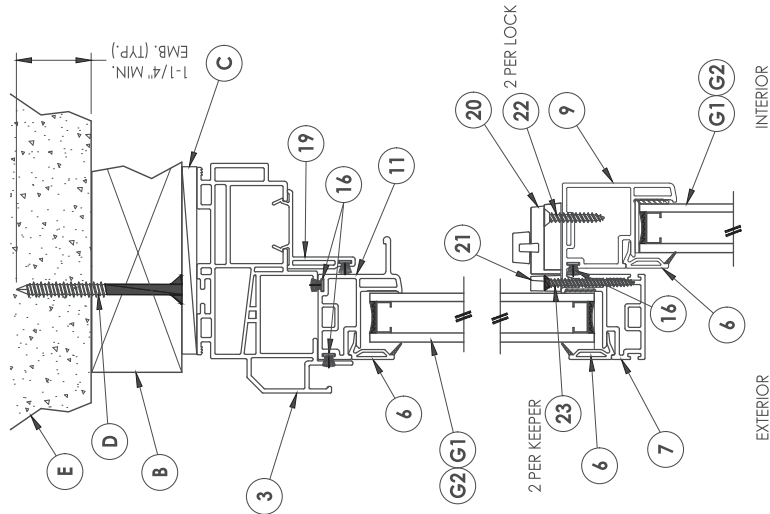
This item has been digitally signed and sealed by
L.F. Schmidt, P.E. on the date adjacent to the seal.
Printed copies of this document are not
considered signed and sealed and the signature
must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

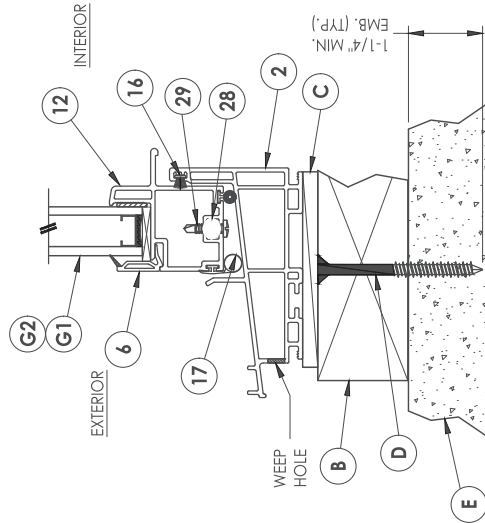
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409
BUILDING CONSULTANTS, INC.
P.O. Box 230, Veroico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: 7700 / 9900 SERIES
Vinyl Double Hung Window
PART OR ASSEMBLY:
TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

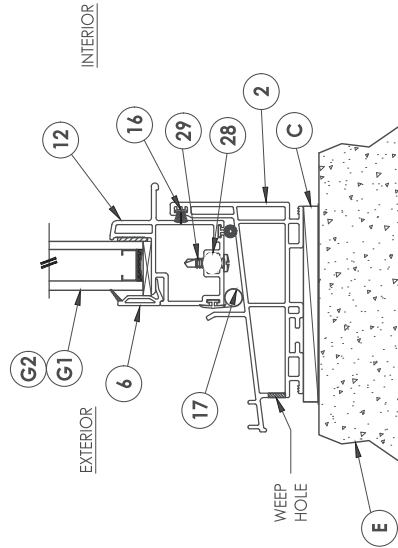
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1 VERTICAL CROSS SECTION
3 Shown w/ 2X buck

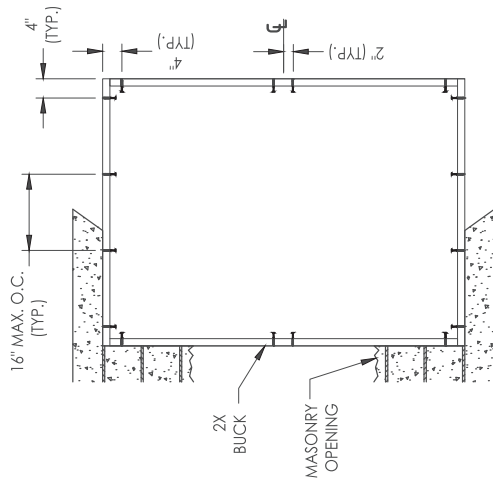


2 VERTICAL CROSS SECTION
3 Shown w/ 2X buck

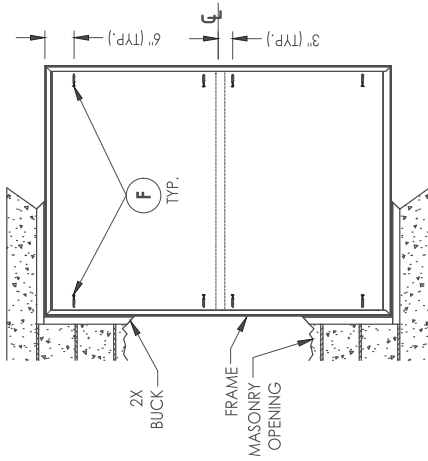


3 VERTICAL CROSS SECTION
3 Shown direct to masonry

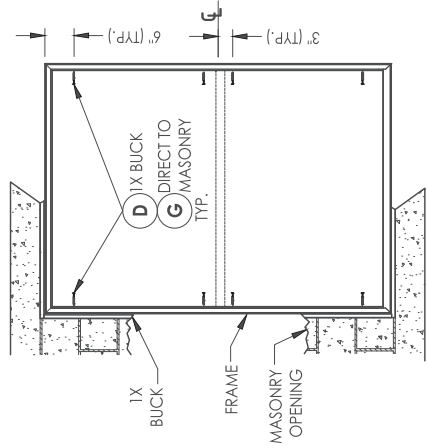
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8	7/02/20	UPDATE TO 7TH ED. (2020)	FBC	LFS
7	6/01/17	UPDATE TO 6TH ED. (2017)	FBC	LFS
6	5/10/16	REVISE INSTALLATION SCREWS	LFS	
5	1/27/15	UPDATE TO 5TH ED. (2014)	FBC	JK
4	8/25/14	REVISE SERIES NO.		BY
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REVISIONS				
PRODUCT: 7700 / 9900 SERIES Vinyl Double Hung Window				
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS				
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				
DATE: 6/23/14				
SCALE: N.T.S.				
DWG. BY: JK				
CHK. BY: LFS				
DRAWING NO: FL-15819.8				
SHEET 3 OF 5				



BUCK ANCHORING



FRAME ANCHORING



FRAME ANCHORING
1X Buck
Direct to masonry

1. **CONCRETE ANCHOR NOTES:**
Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
2. Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints; additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimensions are not exceeded.
3. Concrete anchor table:

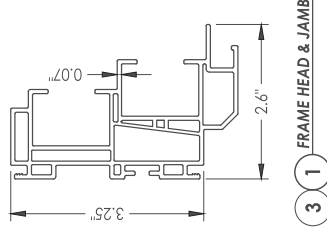
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
Dewalt ULTRACON®	1/4"	1-1/4"	1"	4"

WOOD SCREW INSTALLATION NOTES:

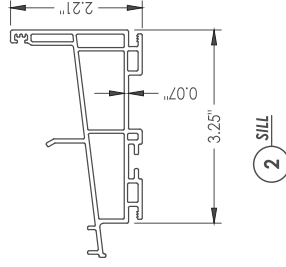
1. Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.

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" PFH 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	#8 X 2" PAN HEAD/TRUSS HEAD WOOD SCREW (1-3/8" MIN. EMBEDMENT)	STEEL
G	1/4" X 2-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
1	FRAME JAMB* (DH 7701)	PVC
2	SILL* (DH 7703)	PVC
3	FRAME HEAD* (DH 7701)	PVC
4	UPPER SASH STILE* (SE 3035)	PVC
5	LOWER SASH STILE* (SE 3045)	PVC
6	GLAZING BEAD*	PVC
7	KEEPER RAIL UPPER SASH* (SE 3034)	PVC
9	LOCK RAIL LOWER SASH* (SE 3046)	PVC
11	TOP RAIL UPPER SASH* (SE 3037)	PVC
12	BOTTOM RAIL LOWER SASH* (SE 3047)	PVC
16	WEATHERSTRIP ULTRA FAB .270 PILE - 270 - 18758	-
17	WEATHERSTRIP SILBULB (AMESBURY 32690)	-
19	HEAD ADAPTER* (DH 3005)	PVC
20	LOCK 8513 / 8845 LAWRENCE	PVC
21	KEEPER 2700 - 214 LAWRENCE	PVC
22	#8 X 1" PFH (VINYL LOCK SCREWS)	STEEL
23	#6 X 1-1/2" PFH (VINYL LOCK SCREWS)	STEEL
24	TOP SASH TILT LATCH - ASHLAND	PVC
28	PIVOT BAR - CALDWELL	-
29	#8 X 1/2" SELF TAPPING PPH SMS	STEEL

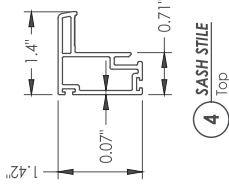
* THE APPROVED WHITE RIGID PVC EXTERIOR EXTRUSIONS FOR WINDOWS ARE TO BE PRODUCED BY EXTRUDERS LICENSEES IN "AAMA CERTIFICATION PROGRAMS FOR RIGID PVC EXTRUSIONS".



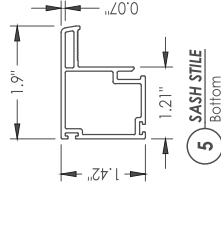
3 FRAME HEAD & JAMB



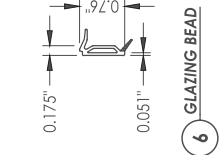
2 SILL



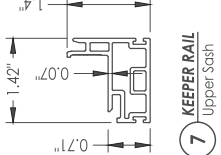
4 SASH STILE Top



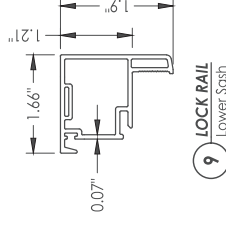
5 SASH STILE Bottom



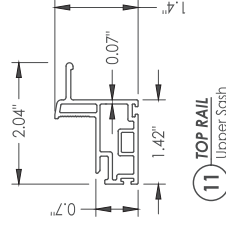
6 GLAZING BEAD



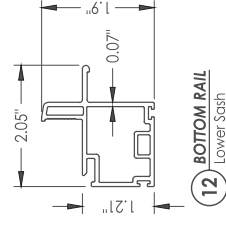
7 KEEPER RAIL Upper Sash



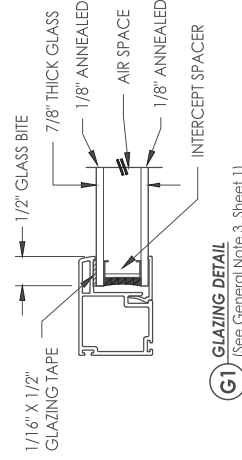
9 LOCK RAIL Lower Sash



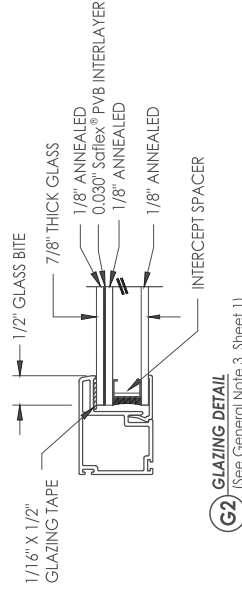
11 TOP RAIL Upper Sash



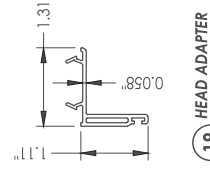
12 BOTTOM RAIL Lower Sash



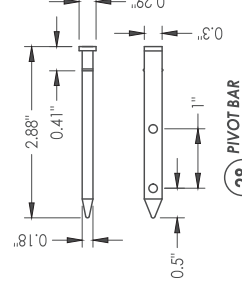
G1 GLAZING DETAIL (See General Note 3, Sheet 1)



G2 GLAZING DETAIL (See General Note 3, Sheet 1)



19 HEAD ADAPTER



28 PIVOT BAR

PRODUCT:		7700 / 9900 SERIES
PART OR ASSEMBLY:		Vinyl Double Hung Window
BILL OF MATERIALS		COMPONENTS & GLAZING DETAIL

REVISIONS	
NO.	DATE
1	8/25/14
2	1/27/15
3	5/10/16
4	6/01/17
5	7/02/20
6	7/06/23

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



Product Approval
USER: Public User

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

OFFICE OF THE
SECRETARY

Search Criteria

[Refine Search](#)

Code Version	2023	FL#	16542.1
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
FL16542-R6 History	Revision	Wincore Window Company, LLC FL#: FL16542.1 Model: a. "TMP-2603" Vertical Clipped Mullion Description: Extruded Aluminum Vertical Clipped Mullion for use with impact and non-impact window products in Masonry or Wood/Steel Stud Openings 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:



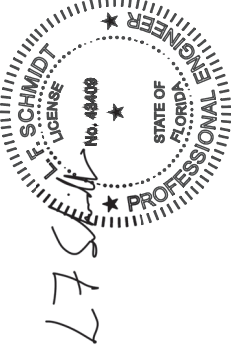
TMP-2603
EXTRUDED ALUMINUM
VERTICAL CLIPPED MULLION



GENERAL NOTES

1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements, excluding the "High Velocity Hurricane Zone".
2. When used in areas requiring wind borne debris protection, this product (if mullied together with impact rated windows), complies with FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
3. Wood bucks by others, must be anchored properly to transfer loads to the structure and be reviewed by the Building Official.
4. Separate product approvals for each glazing product used with these mullions must be submitted along with this mullion product approval. The design pressure rating of the assembly shall be the lesser of the load capacity of the mullion as specified using this approval or the design pressure rating of the individual glazing products used.
5. Anchoring of each glazing product to the mullion shall be as shown in this drawing or as shown in each individual glazing product approval, whichever is more stringent.
6. Mullion anchor embedment to base material shall be beyond wall dressing or stucco.
7. Any conditions not covered in this evaluation are subject to separate engineering evaluation.

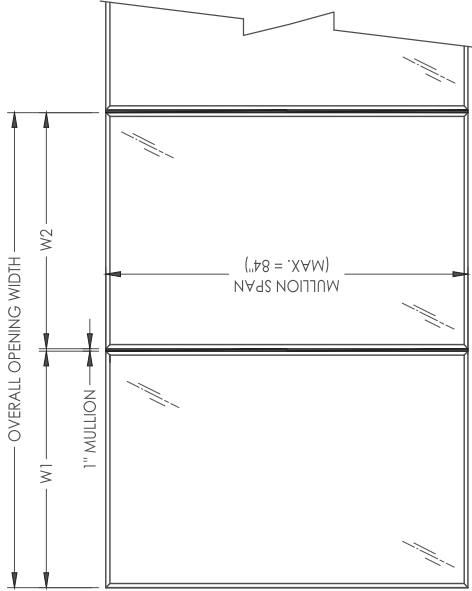
TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical Elevations & General Notes
2	Mullion Design Pressure Table & Cross Sections
3	Wood/Steel Stud Anchor Clip Details
4	Masonry or Wood/Steel Stud Anchor Clip Details



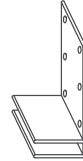
Digitally signed by Lyndon F Schmidt
Date: 2023.07.06 14:13:28 -04'00'

This item has been digitally signed and sealed by L. F. Schmidt, P.E. on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

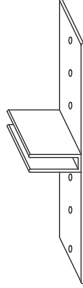
THIS PRODUCT APPROVAL IS VALID ONLY FOR THE STATE OF FLORIDA



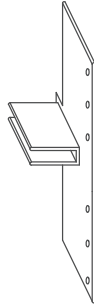
VERTICAL MULLIED WINDOW UNITS
ADJOINING WINDOW UNITS CAN BE EQUAL OR UNEQUAL WIDTHS



Wood/Steel Stud Anchor Bracket



Masonry or Wood/Steel Stud Anchor Clip



Masonry or Wood/Steel Stud Offset Anchor Bracket

REVISIONS	
NO.	DATE
1	4/8/14
2	1/28/15
3	5/05/16
4	6/01/17
5	7/09/20
6	7/06/23
DATE: 10/01/13	
SCALE: N.T.S.	
DWG. BY: JK	
CHK. BY: LFS	
DRAWING NO.: FL-16542.1	
SHEET 1 OF 4	

PART OR ASSEMBLY	
ALUMINUM CLIPPED MULLION	LFS
TYPICAL ELEVATIONS & GENERAL NOTES	JK
BY	LFS

Documents Prepared By: Lyndon F. Schmidt
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BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

CLIPPED MULLION

TMP-2603 EXTRUDED ALUMINUM VERTICAL CLIPPED MULLION LOAD TABLE (PSF)																										
OVERALL OPENING WIDTH																										
	49"	53"	57"	61"	65"	69"	73"	77"	81"	85"	89"	93"	97"	101"	105"	109"	113"	117"	121"	125"	129"	133"	137"	141"	145"	
84"	67.5	62.5	58.5	55.0	52.0	49.5	47.0	45.0	43.0	41.5	40.0	39.0	37.5	36.5	35.5	34.5	34.0	33.5	33.0	32.5	32.0	31.0	31.0	30.5	30.0	
82"	72.5	67.5	63.0	59.0	56.0	53.5	51.0	48.5	46.5	45.0	43.5	42.0	40.5	39.5	38.5	37.5	37.0	36.0	35.5	35.0	34.5	34.0	33.5	33.5	33.0	
80"	75.0	73.0	68.0	64.0	60.5	57.5	55.0	52.5	50.0	48.5	47.0	45.5	44.0	43.0	42.0	41.0	40.0	39.5	38.5	38.0	37.5	37.0	37.0	36.5	36.5	
78"	75.0	75.0	74.0	69.0	66.0	62.0	60.0	57.0	55.0	53.0	51.0	50.0	48.0	47.0	46.0	45.0	44.0	43.0	42.5	42.5	41.5	41.0	40.5	40.5	40.0	
76"	75.0	75.0	75.0	74.5	71.5	67.0	64.0	61.0	59.5	57.0	55.5	53.5	52.5	50.5	50.0	49.0	48.0	47.5	46.5	46.0	45.5	45.0	44.5	44.5	44.0	
74"	75.0	75.0	75.0	75.0	75.0	74.0	70.5	67.5	65.0	63.0	61.0	59.0	57.5	56.0	55.0	54.0	53.0	52.0	51.5	50.5	50.0	50.0	49.5	49.5	49.0	
72"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	74.0	71.0	69.0	66.5	65.0	63.0	61.5	60.5	59.0	58.5	57.5	56.5	56.0	55.5	55.5	55.0	55.0	55.0	
70"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	73.5	71.5	69.5	68.0	66.5	65.5	64.5	63.5	63.0	62.5	62.0	61.5	61.5	61.5	61.5	
68"	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	75.0	75.0	74.0	72.5	71.5	70.5	69.5	69.5	69.0	69.0	69.0	69.0	
66"	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	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
64"	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	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
62"	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	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
60"	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	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

MAXIMUM MULLION LENGTH

84"	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	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
82"	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	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
80"	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	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
78"	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	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
76"	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	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
74"	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	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
72"	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	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
70"	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	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
68"	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	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
66"	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	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
64"	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	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
62"	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	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
60"	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	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

DESIGN PRESSURE TABLE NOTES:
1. Determine the Overall Opening Width for the two windows to be mullied together. If multiple units are to be mullied together, use the maximum Overall Opening Width for the two widest adjacent windows.
2. Enter the table at the intersection of the Mullion Length and the Overall Opening Width to determine the maximum approved Design Pressure.

APPROVED WINDOW UNIT TYPES

Fixed/Picture Windows
Casement Windows
Awning Windows
Horizontal Slider Windows
Single Hung Windows
Double Hung Windows

Refer to separate window approval for quantity, location, size & head type of anchors required to fasten window frame to mullion. At a minimum, substitute a #10-16 Self-Drilling SMS for each connector with at least 3 threads protruding completely through the mullion face.

1

Shown with Wincore Fixed/Picture window frame under separate approval.

1

2

1 FRAME TO MULLION CONNECTION

1

2

1 TMP-2603 MULLION
6063-T6 ALUM.

OVERALL OPENING WIDTH = W1 + W2 + 1 (inch)

OVERALL OPENING WIDTH

W1

1" MULLION

W2

MULLION SPAN (MAX. = 84")

1

2

SEE ANCHOR CLIP DETAILS: SHEETS 3 & 4

PRODUCT: ALUMINUM CLIPPED MULLION

PART OR ASSEMBLY: TABLE & CROSS SECTIONS

REVISIONS

NO.	DATE
1	4/8/14
2	1/28/15
3	6/05/16
4	6/01/17
5	7/09/20
6	7/06/23

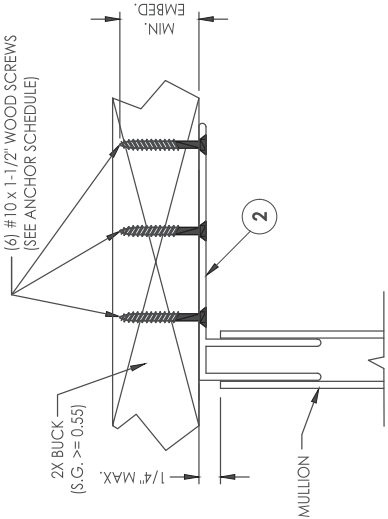
DATE: 10/01/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-16542.1
SHEET 2 OF 4

W

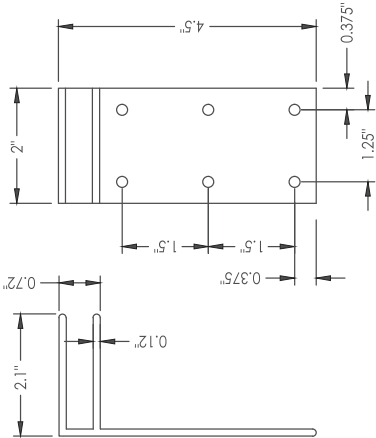
BUILDING CONSULTANTS, INC.
P.O. Box 230, Vero Beach, FL 33595
Phone No.: 813.659.9197
FPE Registry No. 9813

Lyndon F. Schmidt
P.E. No. 43409
Documents Prepared By:

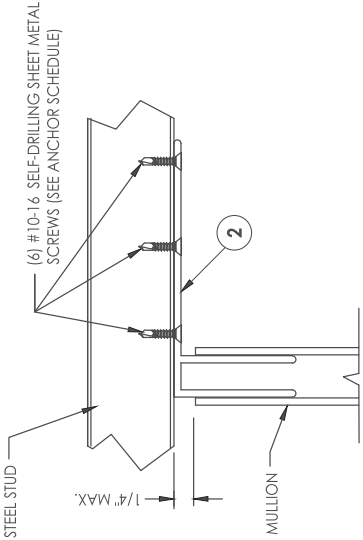
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1 ANCHOR BRACKET DETAIL
Anchor to 2x Buck



2 WOOD/STEEL STUD ANCHOR BRACKET
6063-T6 ALUM.



2 ANCHOR BRACKET DETAIL
Anchor to Steel Stud

MULLION ANCHOR BRACKET ANCHOR SCHEDULE			
ANCHOR	SUBSTRATE	EMBEDMENT (min.)	EDGE DISTANCE: CENTER-TO-CENTER SPACING (min.)
#10 PFH WOOD SCREW	WOOD	1-3/8"	1"
#10-16 SELF-DRILLING SHEET METAL SCREW	STEEL	A MIN. OF 3 THREADS SHALL PROTRUDE COMPLETELY THROUGH THE STEEL SUBSTRATE	1"

WOOD FRAMING (S.G. >= 0.55)
STEEL CONFORMING TO ASTM A453, 16 GA., 0.0607 MIN. THICKNESS Fy = 33,000 PSI, Fu = 45,000 PSI)
SHEET METAL SCREWS (SAE GRADE 5 MIN.), HULTI KWIK-FLEX or EICO DRILL-FLEX

- Notes:
- Refer to individual window product approval for fabrication and installation requirements, including glazing details, frame reinforcement and anchor specifications.
 - Mullion bracket anchoring details shown may be used at either end of mullion.

REVISIONS

NO.	DATE	BY
1	4/8/14	LFS
2	1/28/15	JFK
3	5/05/16	LFS
4	6/01/17	LFS
5	7/09/20	LFS
6	7/06/23	LFS

PRODUCT:

ALUMINUM CLIPPED MULLION	FBC
WOOD/STEEL STUD ANCHOR BRACKET DETAILS	FBC

PART OR ASSEMBLY:

WOOD/STEEL STUD ANCHOR BRACKET DETAILS	FBC
ALUMINUM CLIPPED MULLION	FBC

DATE:

10/01/13	N.T.S.	JFK
10/01/13	N.T.S.	JFK

CHK. BY:

LFS	LFS
-----	-----

DWG. BY:

JFK	JFK
-----	-----

SHEET

3	OF	4
---	----	---

FL-16542.1

Documents Prepared By:

Lyndon F. Schmidt

P.E. No. 43409

Building Consultants, Inc.

P.O. Box 230, Valrico, FL 33595

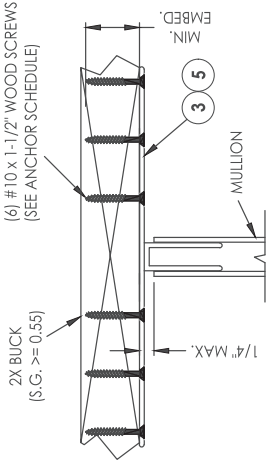
Phone No.: 813.659.9197

F.B.P.E. Registry No. 9813

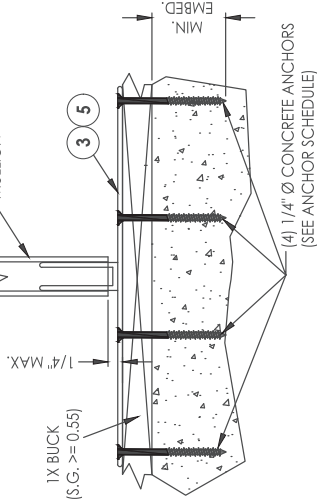
- Notes:
- Refer to individual window product approval for fabrication and installation requirements, including glazing details, frame reinforcement and anchor specifications.
 - Mullion bracket anchoring details shown may be used at either end of mullion.

MULLION ANCHOR BRACKET ANCHOR SCHEDULE				
ANCHOR	SUBSTRATE	EMBEDMENT (MIN.)	EDGE DISTANCE (MIN.)	CENTER-TO-CENTER SPACING (MIN.)
#10 PH WOOD SCREW	WOOD	1-3/8"	3/4"	1-1/4"
#10-16 SELF-DRILLING SHEET METAL SCREW	STEEL	A MIN. OF 3 THREADS SHALL PROTRUDE BEYOND THE STEEL SUBSTRATE	3/4"	1-1/4"
1/4" Ø PH HILTI KWIK-CON II+	HOLLOW BLOCK	1-1/4"	2-1/2"	3"
	CONCRETE	1-1/4"	2-1/2"	3"

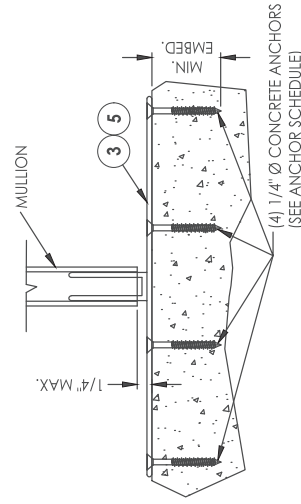
WOOD FRAMING (S.G. >= 0.55)
STEEL CONFORMING TO ASTM A663, 16 GA., 0.0607" MIN. THICKNESS (F_y = 33,000 PSI, F_u = 45,000 PSI)
STEEL METAL SCREWS (S&E GRADE 3 MIN.), HILTI KWIK-FLEX OR ELOCO DRILL-FLEX
CONCRETE CONFORMING TO ACI 301 (3,000 PSI MIN.) OR HOLLOW BLOCK CONFORMING TO ASTM C90



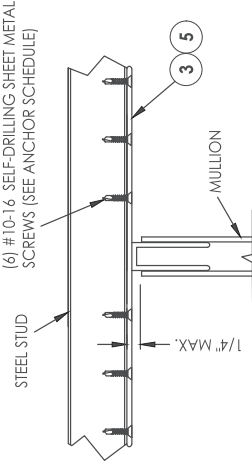
1 ANCHOR BRACKET DETAIL
Anchor to 2x Buck



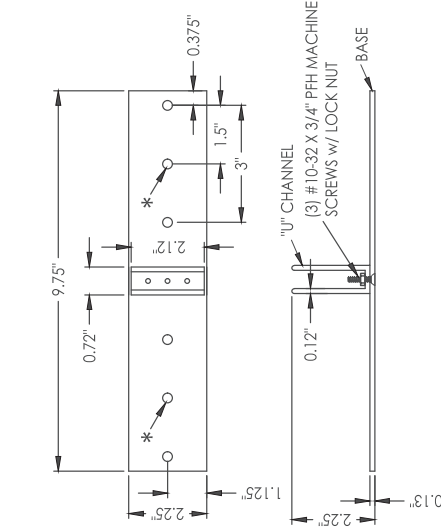
3 ANCHOR BRACKET DETAIL
Anchor to Masonry thru 1x Buck



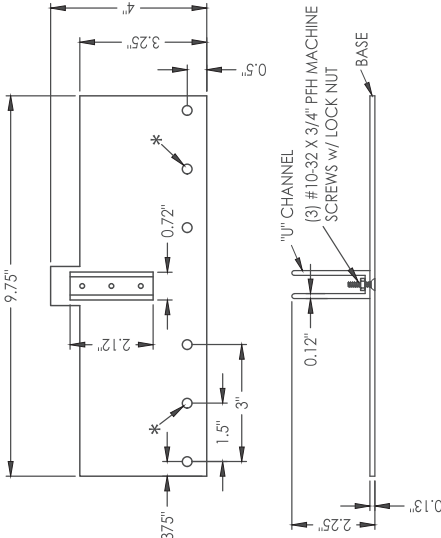
4 ANCHOR BRACKET DETAIL
Anchor Direct to Masonry



2 ANCHOR BRACKET DETAIL
Anchor to Steel Stud



3 MASONRY OR WOOD/STEEL STUD ANCHOR BRACKET
BASE (6061-T6 ALUM.)
"U" CHANNEL (6063-T6 ALUM.)



5 MASONRY OR WOOD/STEEL STUD OFFSET ANCHOR BRACKET
BASE (6061-T6 ALUM.)
"U" CHANNEL (6063-T6 ALUM.)

* Holes indicated to be used for wood/steel stud installations only. Do not use for concrete screws.

DATE: 10/01/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-16542.1

SHEET 4 OF 4

REVISIONS

NO.	DATE	REVISION
1	4/8/14	REVISE ANCHOR CLIPS
2	1/28/15	UPDATE TO 5TH ED. (2014) FBC
3	5/05/16	MODIFY ANCHOR CLIP
4	6/01/17	UPDATE TO 6TH ED. (2017) FBC
5	7/09/20	UPDATE TO 7TH ED. (2020) FBC
6	7/06/23	UPDATE TO 8TH ED. (2023) FBC

PRODUCT: ALUMINUM CLIPPED MULLION

PART OR ASSEMBLY: MASONRY OR WOOD/STEEL STUD ANCHOR BRACKET DETAILS

BY: LFS

Documents Prepared By: Lyndon F. Schmidt

P.E. No. 43409

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