



1702 GULLEN BLVD.
HOUSTON, TX 77023

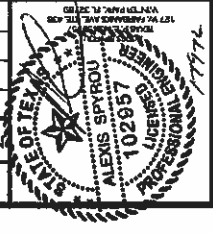
PH: 713-924-8900

ALUMINUM MULLION
ASSEMBLY
ELEVATIONS & NOTES

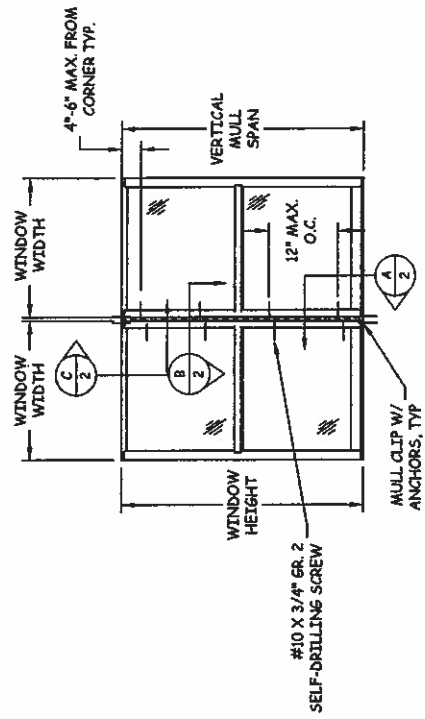
PREPARED BY:
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REVISIONS

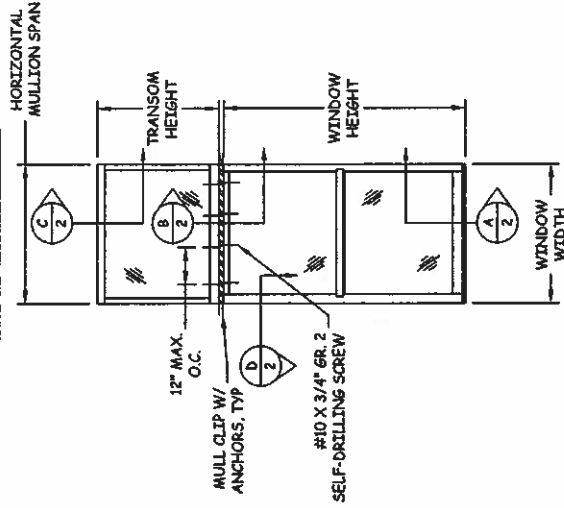
NO.	DESCRIPTION	BY	DATE



DATE: 11.07.10
DWN BY: JLA
CHK BY: HFN
SCALE: NTS
DWG #: SCV003
SHEET: 1 OF 3



VERTICAL MULLION FOR TWIN WINDOWS



HORIZONTAL MULLION FOR SINGLE WINDOWS W/ TRANSOM

- NOTES:
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 2006 INTERNATIONAL BUILDING CODE (IBC) AND INTERNATIONAL RESIDENTIAL CODE (IRC) WITH 2006 TEXAS REVISIONS, EFFECTIVE JANUARY 1, 2008.
 2. MULLION INSTALLATION DETAILS APPLY TO SHOWCASE VINYL WINDOWS & DOORS STRUCTURAL ALUMINUM MULLION WITH ALUMINUM 6063-T5 ANCHOR STRAP WHEN USED TO MULL WINDOWS SIDE BY SIDE OR WITH A TRANSOM.
 3. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE FOR ZONE 3 OR LESS.
 4. USE #10 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1 1/2" INTO WOOD FRAMING. (SEE CHARTS & NOTES ON SHEET 3 FOR DESIGN PRESSURE AND ANCHOR NOTES).
 5. USE #10-24 SAE GRADE 2 SELF-DRILLING SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM ENGAGEMENT OF 3 THREADS INTO ALUMINUM FRAMING TO FASTEN VINYL WINDOW FRAMES TO MULLIONS.
 6. 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND ANCHOR LAYOUT IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
 7. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
 8. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
 9. SEE CHARTS & NOTES ON SHEET 3 FOR DESIGN PRESSURE.
 10. THIS MULLION IS ONLY VALID WHEN USED IN CONJUNCTION WITH APPLICABLE SHOWCASE VINYL WINDOWS & DOORS WINDOW PRODUCTS, INCLUDING THE 200 SERIES SINGLE HUNG VINYL WINDOWS.
 11. ALL WINDOWS USED WITH THIS MULLION SHALL BE QUALIFIED UNDER SEPARATE APPROVAL.
 12. MULLION MATERIAL: 6063-T5 ALUMINUM
 13. STRAP MATERIAL: 6063-T5 ALUMINUM
 14. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - a. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.42.

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SHEET DESCRIPTION	
1	MULLION ASSEMBLY ELEVATIONS & NOTES
2	MULLION SECTION DETAILS AND ANCHORING
3	DESIGN PRESSURE CHARTS



1702 GALLER BLVD.
HOUSTON, TX 77053

PH: 713-276-8800

ALUMINUM MULLION
DETAILS AND ANCHORING

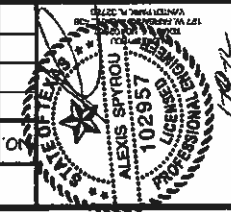
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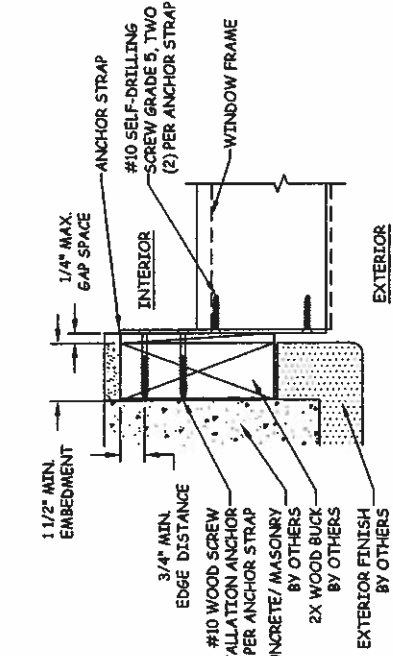
BY

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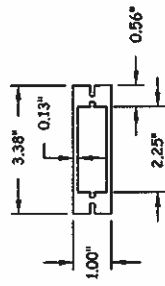


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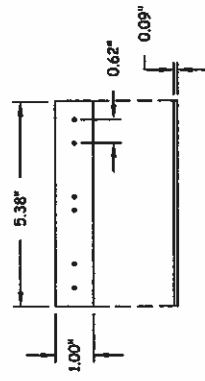
DWG # SCV003
SHEET: 2 OF 3



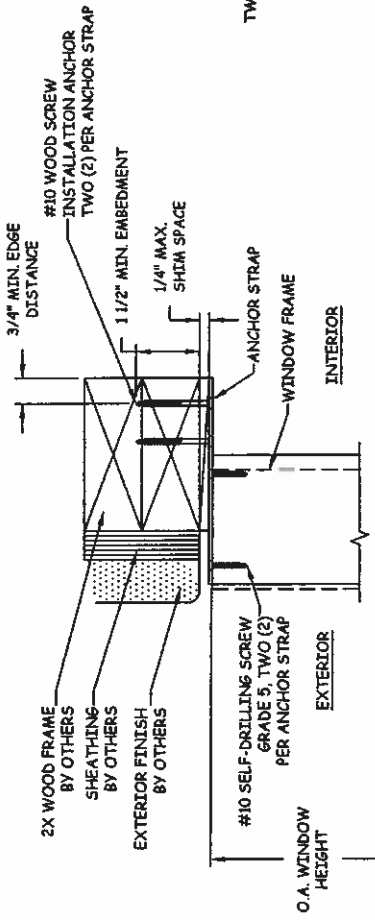
D HORIZONTAL SECTION
JAMB - 2X WOOD BUCK



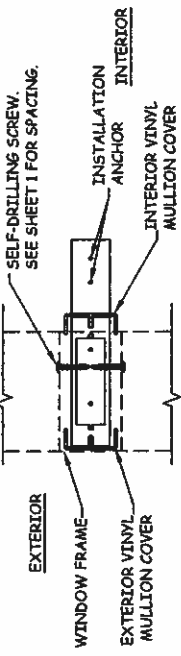
M MULLION SECTION DETAIL
ALUMINUM 6063-T5



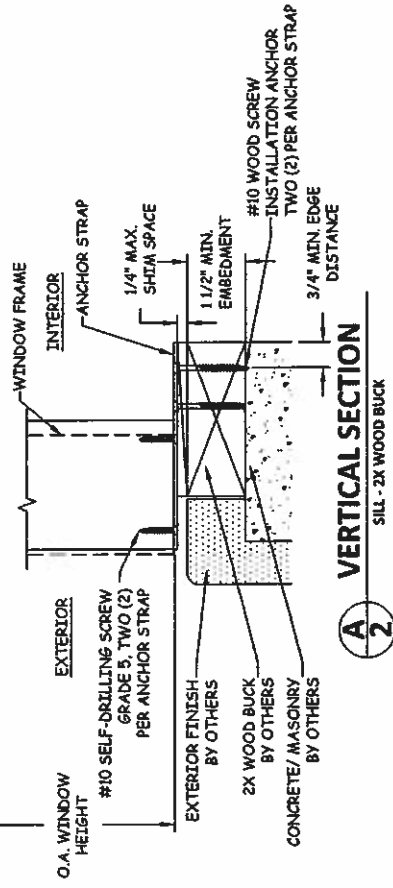
S MULL STRAP DETAIL
ALUMINUM 6063-T5



C VERTICAL SECTION
HEAD - 2X WOOD FRAME



B HORIZONTAL SECTION
ALUMINUM MULLION



A VERTICAL SECTION
SILL - 2X WOOD BUCK

DESIGN PRESSURE CHARTS

Maximum design pressure capacity chart (psf) Vertical Mullion (Twin)

Design pressures are limited either by mullion or anchor screws or anchor clip capacity

Height (in)	Unit Width (in)									
	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	44.0
24.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30.0	120.0	114.5	108.5	105.2	104.2	104.2	104.2	104.2	104.2	104.2
36.0	115.7	105.0	97.7	92.6	89.3	87.4	86.8	86.8	86.8	86.8
42.0	110.5	99.2	91.1	85.3	81.0	78.0	76.0	74.8	74.4	74.4
48.0	106.8	95.2	86.8	80.5	75.8	72.1	69.4	67.5	66.1	65.6
54.0	104.2	92.4	83.7	77.2	72.1	68.2	65.1	62.7	60.9	59.9
60.0	102.1	90.2	81.4	74.7	69.4	65.3	62.0	59.4	57.2	56.1
63.0	101.3	89.3	80.4	73.6	68.4	64.1	60.8	58.0	55.8	54.6
66.0	100.5	88.5	79.6	72.7	67.4	63.1	59.7	56.9	54.6	53.3
72.0	93.5	82.1	73.6	67.1	62.0	57.9	54.5	51.8	49.5	48.2
83.5	79.0	69.1	61.8	56.1	51.6	47.9	44.9	42.5	40.4	39.2

NOTES FOR TWIN WINDOW AND ANCHOR CLIP

- THE DESIGN PRESSURES IN THIS CHART ARE FOR THE MULLIONS LISTED ABOVE WHEN USED WITH THE STRAP LISTED ABOVE.
- FOR VERTICAL MULL STRAPS IN WOOD FRAMING INSTALLATION USE TWO (2) #10 WOOD SCREWS AT EACH ANCHOR STRAP. MUST BE OF SUFFICIENT LENGTH TO ACHIEVE A 1 1/2" MINIMUM EMBEDMENT INTO FRAMING. SEE SHEET 2 FOR DETAILS.
- CHART APPLIES ONLY TO STRUCTURAL ALUMINUM MULLION AS SPECIFIED ABOVE WHEN USED TO MULL WINDOWS SIDE BY SIDE.
- READ WINDOW WIDTH AND MULL SPAN IN INCHES. DESIGN PRESSURE VALUES ON THIS CHART ARE POSITIVE AND NEGATIVE PSF.
- DESIGN PRESSURE VALUES APPLY TO MULLION WHERE TWO OR MORE WINDOWS ARE LISTED IN A SINGLE OPENING.
- DESIGN PRESSURE OF RESULTING ASSEMBLY IS THE LESSER OF THE INDIVIDUAL APPROVED PRODUCT OR THAT OF THE MULLION INDICATED IN THE ABOVE CHART.
- REFER TO PER 1512 FOR MORE MULLION SPECIFICATIONS.

Maximum design pressure capacity chart Horizontal mullion, single with transom

Design pressures are limited either by mullion or anchor screw or anchor clip capacity.

Window Height (in)	Unit width (in)									
	18.0	21.0	24.0	27.0	30.0	36.0	39.0	42.0	44.0	
24.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
30.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
36.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
42.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
48.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
54.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
60.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
63.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
66.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
72.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
83.5	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	

NOTES FOR SINGLE WINDOW W/ SINGLE TRANSOM AND ANCHOR CLIP

- THE DESIGN PRESSURES IN THIS CHART ARE FOR THE MULLIONS LISTED ABOVE WHEN USED WITH THE STRAP LISTED ABOVE.
- FOR HORIZONTAL MULL STRAPS IN WOOD FRAMING INSTALLATION USE TWO (2) #10 WOOD SCREWS AT EACH ANCHOR STRAP. MUST BE OF SUFFICIENT LENGTH TO ACHIEVE A 1 1/2" MINIMUM EMBEDMENT INTO FRAMING. SEE SHEET 2 FOR DETAILS.
- CHART APPLIES ONLY TO STRUCTURAL ALUMINUM MULLION AS SPECIFIED ABOVE WHEN USED TO MULL WINDOWS WITH A TRANSOM.
- READ WINDOW WIDTH AND MULL SPAN IN INCHES. DESIGN PRESSURE VALUES ON THIS CHART ARE POSITIVE AND NEGATIVE PSF.
- DESIGN PRESSURE VALUES APPLY TO MULLION WHERE TWO OR MORE WINDOWS ARE LISTED IN A SINGLE OPENING.
- DESIGN PRESSURE OF RESULTING ASSEMBLY IS THE LESSER OF THE INDIVIDUAL APPROVED PRODUCT OR THAT OF THE MULLION INDICATED IN THE ABOVE CHART.
- REFER TO PER 1513 FOR MORE MULLION SPECIFICATIONS.



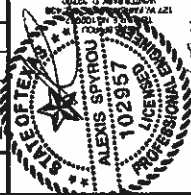
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ALUMINUM MULLION
DESIGN PRESSURE CHARTS
PREPARED BY:
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PH: (407) 644-6957

NO.	DESCRIPTION	BY	DATE

REVISIONS



DATE:	11.07.10
DOWN BY:	JLA
CHK BY:	HFN
SCALE:	NTS
DWG #:	SCV003
SHEET:	3 OF 3