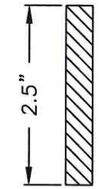
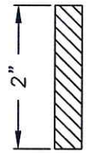
Alside BECAUSE LIFE IS FOR LIVING®

3773 STATE ROAD, CUYAHOGA FALLS, OH 44223

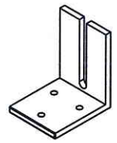
"C-Class" SERIES STRUCTURAL MULLION



MULLION (2.5")



MULLION (2.0")



MULLION ANCHOR STYLE BRACKET
(AT HEAD AND SILL)

GENERAL NOTES:

THE STEEL STRUCTURAL MULLIONS DESCRIBED HEREIN COMPLY WITH THE 2006 INTERNATIONAL RESIDENTIAL CODE (IRC) SUBJECT TO THE FOLLOWING CONDITIONS:

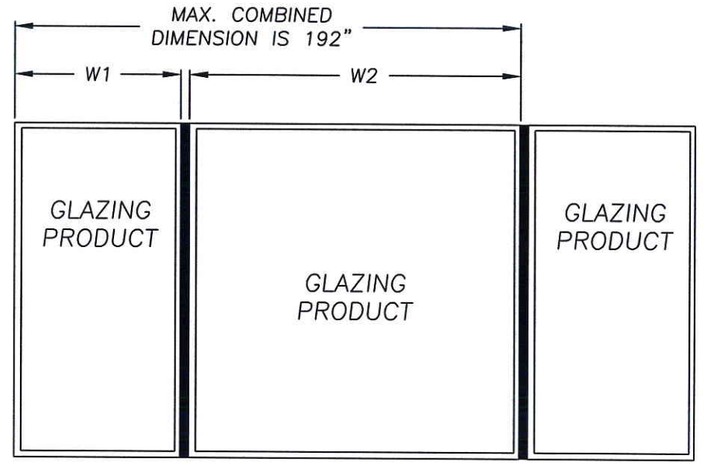
1. MULLION ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
2. SEPARATE PRODUCT APPROVALS FOR EACH ALSIDE GLAZING PRODUCT USED WITH THESE MULLIONS MUST BE SUBMITTED ALONG WITH THIS MULLION PRODUCT APPROVAL.
3. ANY CONDITIONS NOT COVERED IN THIS EVALUATION ARE SUBJECT TO SEPARATE ENGINEERING EVALUATION.
4. APPROVED ALSIDE TWIN UNITS OR APPROVED ALSIDE SINGLES CAN BE USED IN MULLION CONFIGURATIONS. THE VERTICAL AND HORIZONTAL MULLION CONFIGURATIONS CAN BE COMBINED TO MULL MULTIPLE SINGLE UNITS TOGETHER.
5. 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.
6. BOUNDING BOX DIMENSIONS FOR GEOMETRIC TRANSOM SHAPES MUST BE EQUAL TO OR LESS THAN THE RECTANGULAR TRANSOM DIMENSIONS SHOWN HEREIN.

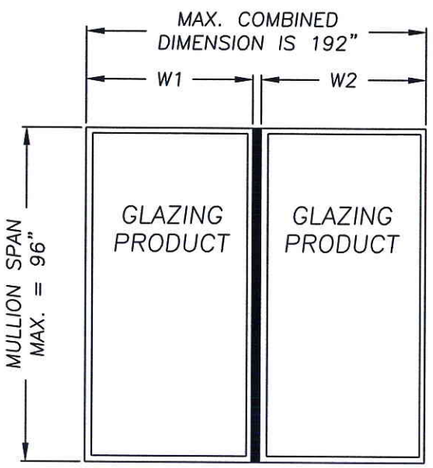
SUPPORTING DOCUMENTS & EVIDENCE

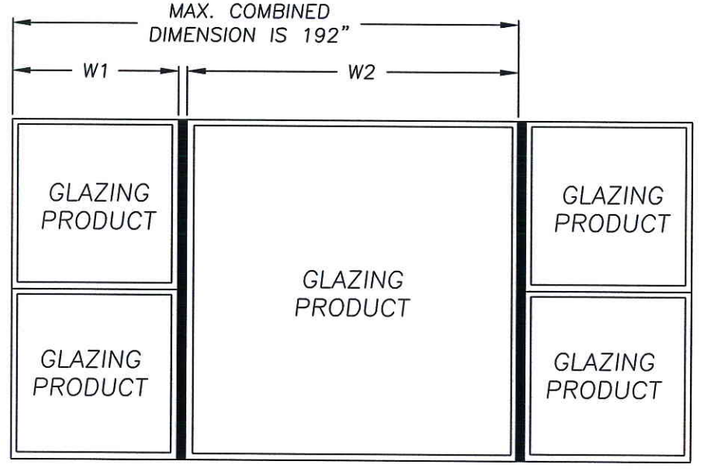
1. THIS PRODUCT HAS BEEN ENGINEERED FOLLOWING ACCEPTED ENGINEERING PRACTICE CONFORMING TO THE REQUIREMENTS IN SECTION 613.9 OF THE IRC.

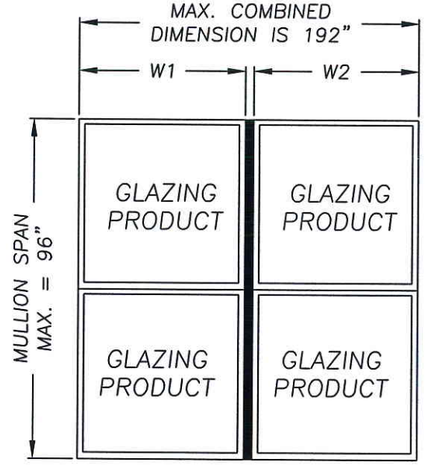
TABLE OF CONTENTS

SHEET #	DESCRIPTION
1	TYPICAL ELEVATIONS & GENERAL NOTES
2	2.0" MULLION LOAD TABLE FOR WOOD SCREW ANCHORS
3	2.0" MULLION LOAD TABLE FOR CONCRETE SCREW ANCHORS
4	2.5" MULLION LOAD TABLE FOR WOOD SCREW ANCHORS
5	2.5" MULLION LOAD TABLE FOR CONCRETE SCREW ANCHORS
6	MULLION SECTION & ANCHOR DETAILS

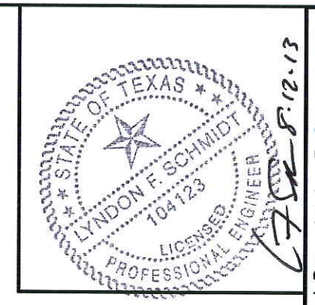








TYPICAL MULLION CONFIGURATIONS



8.12.13

Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL. 33595
Phone No.: 813.659.9197

TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: STRUCTURAL MULLION

PART OR ASSEMBLY: TYPICAL ELEVATION AND GENERAL NOTES

NO.	DATE	BY
	REVISIONS	

DATE: 8/08/13
SCALE: NTS
DWG. BY: AL
CHK. BY: LFS
DRAWING NO.: TX-4360
SHEET 1 OF 6

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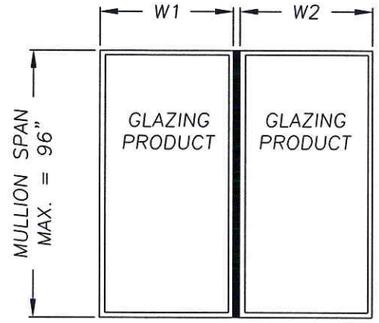

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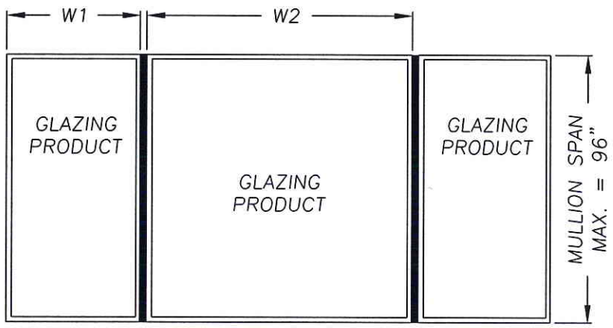
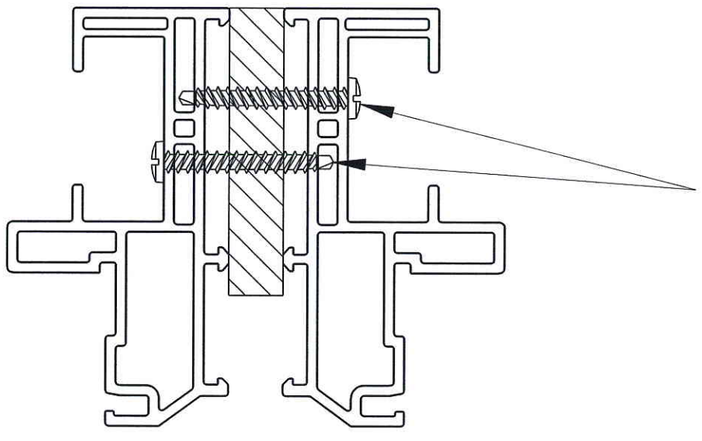




SECTION THRU MULLION & FRAME

WOOD SCREW ANCHORS		"C-Class" STRUCTURAL MULLION LOAD TABLE (PSF) - 2.0"												
		TRIBUTARY WIDTH												
		24"	30"	36"	40"	46"	50"	54"	60"	66"	72"	78"	84"	96"
MULLION SPAN	96"	21.0	17.0	14.0	13.0	11.0	10.0	10.0	NA	NA	NA	NA	NA	NA
	94"	22.0	18.0	15.0	14.0	12.0	11.0	10.0	10.0	NA	NA	NA	NA	NA
	92"	23.0	19.0	16.0	15.0	13.0	12.0	11.0	10.0	NA	NA	NA	NA	NA
	90"	25.0	20.0	17.0	16.0	14.0	13.0	12.0	11.0	10.0	NA	NA	NA	NA
	88"	27.0	22.0	19.0	17.0	15.0	14.0	13.0	12.0	11.0	10.0	NA	NA	NA
	86"	29.0	24.0	20.0	18.0	16.0	15.0	14.0	12.0	11.0	10.0	NA	NA	NA
	84"	31.0	25.0	22.0	20.0	17.0	16.0	15.0	13.0	12.0	11.0	10.0	NA	NA
	82"	34.0	27.0	23.0	21.0	18.0	17.0	15.0	14.0	12.0	11.0	10.0	10.0	NA
	80"	36.0	30.0	25.0	23.0	19.0	18.0	16.0	15.0	13.0	12.0	11.0	10.0	NA
	78"	39.0	32.0	27.0	23.0	20.0	18.0	17.0	15.0	14.0	13.0	12.0	11.0	NA
	76"	43.0	35.0	30.0	24.0	21.0	19.0	18.0	16.0	15.0	13.0	12.0	11.0	10.0
	74"	46.0	38.0	32.0	26.0	22.0	21.0	19.0	17.0	15.0	14.0	13.0	12.0	10.0
	72"	51.0	41.0	35.0	27.0	24.0	22.0	20.0	18.0	16.0	15.0	14.0	13.0	11.0
	70"	55.0	45.0	32.0	29.0	25.0	23.0	21.0	19.0	17.0	16.0	15.0	13.0	12.0
	68"	61.0	50.0	34.0	31.0	27.0	24.0	23.0	20.0	18.0	17.0	15.0	14.0	12.0
	66"	67.0	55.0	36.0	33.0	28.0	26.0	24.0	22.0	20.0	18.0	16.0	15.0	13.0
	64"	72.0	60.0	39.0	35.0	30.0	28.0	26.0	23.0	21.0	19.0	18.0	16.0	14.0
	62"	75.0	65.0	41.0	37.0	32.0	29.0	27.0	24.0	22.0	20.0	19.0	17.0	15.0
	60"	75.0	71.0	44.0	40.0	34.0	32.0	29.0	26.0	24.0	22.0	20.0	19.0	16.0
	58"	75.0	57.0	47.0	42.0	37.0	34.0	31.0	28.0	25.0	23.0	21.0	20.0	17.0
	56"	75.0	61.0	51.0	45.0	39.0	36.0	34.0	30.0	27.0	25.0	23.0	21.0	19.0
	54"	75.0	65.0	54.0	49.0	42.0	39.0	36.0	32.0	29.0	27.0	25.0	23.0	20.0
	52"	75.0	71.0	59.0	53.0	46.0	42.0	39.0	35.0	32.0	29.0	27.0	25.0	22.0
	50"	75.0	75.0	64.0	57.0	50.0	46.0	42.0	38.0	34.0	32.0	29.0	27.0	24.0
	48"	75.0	75.0	69.0	62.0	54.0	50.0	46.0	41.0	37.0	34.0	32.0	29.0	26.0
	40"	75.0	75.0	75.0	75.0	75.0	72.0	66.0	60.0	54.0	50.0	46.0	42.0	37.0

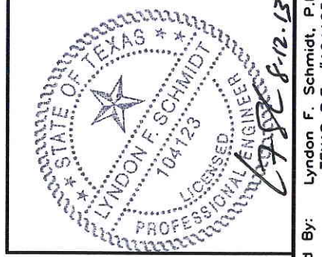
INSTRUCTIONS FOR USE OF THE MULLION LOAD TABLE:

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 TDI APPROVED WINDOWS BY ALSIDE WINDOWS CAN BE USED IN THIS FASHION.



4-12-13

Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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

TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: STRUCTURAL MULLION

PART OR ASSEMBLY: 2.0" MULLION LOAD TABLE FOR WOOD SCREW ANCHORS

NO.	DATE	BY	REVISIONS

DATE: 8/08/13
SCALE: NTS
DWG. BY: AL
CHK. BY: LFS
DRAWING NO.: TX–4360
SHEET 2 OF 6

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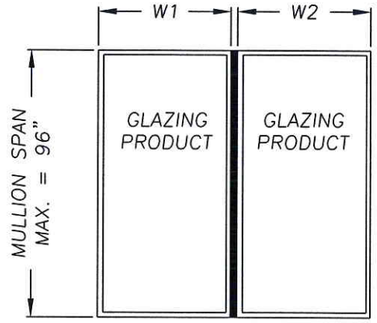
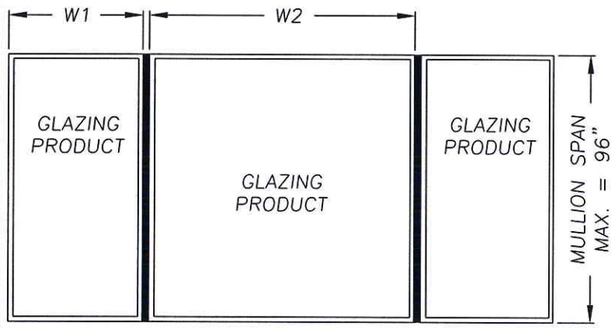


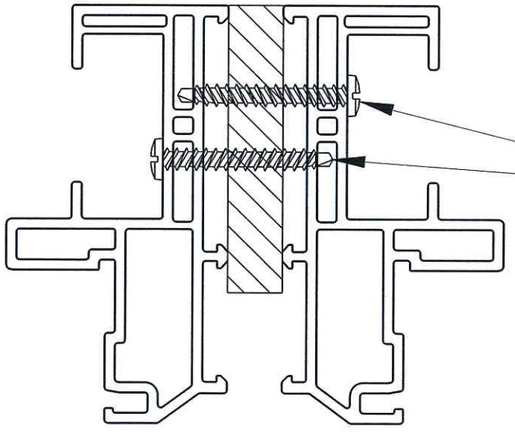
$$\text{TRIBUTARY WIDTH} = \frac{W1 + W2}{2}$$



CONCRETE SCREW ANCHORS	"C-Class" STRUCTURAL MULLION LOAD TABLE (PSF) - 2.0"												
	TRIBUTARY WIDTH												
MULLION SPAN	24"	30"	36"	40"	46"	50"	54"	60"	66"	72"	78"	84"	96"
96"	21.0	17.0	14.0	13.0	11.0	10.0	10.0	NA	NA	NA	NA	NA	NA
94"	22.0	18.0	15.0	14.0	12.0	11.0	10.0	10.0	NA	NA	NA	NA	NA
92"	23.0	19.0	16.0	15.0	13.0	12.0	11.0	10.0	NA	NA	NA	NA	NA
90"	25.0	20.0	17.0	16.0	14.0	13.0	12.0	11.0	10.0	NA	NA	NA	NA
88"	27.0	22.0	19.0	17.0	15.0	14.0	13.0	12.0	11.0	10.0	NA	NA	NA
86"	29.0	24.0	20.0	18.0	16.0	15.0	14.0	12.0	11.0	10.0	NA	NA	NA
84"	31.0	25.0	22.0	20.0	17.0	16.0	15.0	13.0	12.0	11.0	10.0	NA	NA
82"	34.0	27.0	23.0	21.0	18.0	17.0	15.0	14.0	12.0	11.0	10.0	10.0	NA
80"	36.0	30.0	25.0	23.0	19.0	18.0	16.0	15.0	13.0	12.0	11.0	10.0	NA
78"	39.0	32.0	27.0	23.0	20.0	18.0	17.0	15.0	14.0	13.0	12.0	11.0	NA
76"	43.0	35.0	30.0	24.0	21.0	19.0	18.0	16.0	15.0	13.0	12.0	11.0	10.0
74"	46.0	38.0	32.0	26.0	22.0	21.0	19.0	17.0	15.0	14.0	13.0	12.0	10.0
72"	51.0	41.0	35.0	27.0	24.0	22.0	20.0	18.0	16.0	15.0	14.0	13.0	11.0
70"	55.0	45.0	32.0	29.0	25.0	23.0	21.0	19.0	17.0	16.0	15.0	13.0	12.0
68"	61.0	50.0	34.0	31.0	27.0	24.0	23.0	20.0	18.0	17.0	15.0	14.0	12.0
66"	67.0	55.0	36.0	33.0	28.0	26.0	24.0	22.0	20.0	18.0	16.0	15.0	13.0
64"	72.0	60.0	39.0	35.0	30.0	28.0	26.0	23.0	21.0	19.0	18.0	16.0	14.0
62"	75.0	65.0	41.0	37.0	32.0	29.0	27.0	24.0	22.0	20.0	19.0	17.0	15.0
60"	75.0	71.0	44.0	40.0	34.0	32.0	29.0	26.0	24.0	22.0	20.0	19.0	16.0
58"	75.0	57.0	47.0	42.0	37.0	34.0	31.0	28.0	25.0	23.0	21.0	20.0	17.0
56"	75.0	61.0	51.0	45.0	39.0	36.0	34.0	30.0	27.0	25.0	23.0	21.0	19.0
54"	75.0	65.0	54.0	49.0	42.0	39.0	36.0	32.0	29.0	27.0	25.0	23.0	20.0
52"	75.0	71.0	59.0	53.0	46.0	42.0	39.0	35.0	32.0	29.0	27.0	25.0	22.0
50"	75.0	75.0	64.0	57.0	50.0	46.0	42.0	38.0	34.0	32.0	29.0	27.0	24.0
48"	75.0	75.0	69.0	62.0	54.0	50.0	46.0	41.0	37.0	34.0	32.0	29.0	26.0
40"	75.0	75.0	75.0	75.0	75.0	72.0	66.0	60.0	54.0	50.0	46.0	42.0	37.0

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.



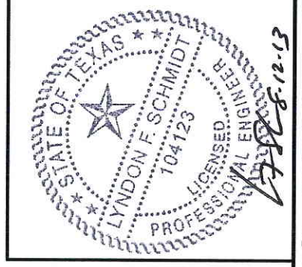
SECTION THRU MULLION & FRAME

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 TDI APPROVED WINDOWS BY ALSIDE WINDOWS CAN BE USED IN THIS FASHION.



8.12.13

Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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

TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F–11852

PRODUCT: STRUCTURAL MULLION

PART OR ASSEMBLY: 2.0" MULLION LOAD TABLE FOR CONCRETE SCREW ANCHORS

NO.	DATE	BY	REVISIONS

DATE: 8/08/13
SCALE: NTS
DWG. BY: AL
CHK. BY: LFS
DRAWING NO.: TX–4360
SHEET 3 OF 6

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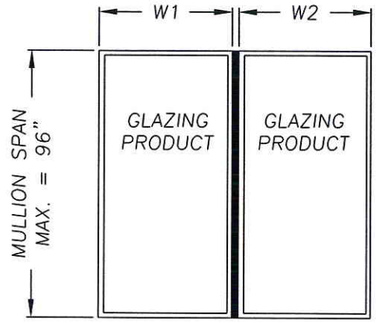
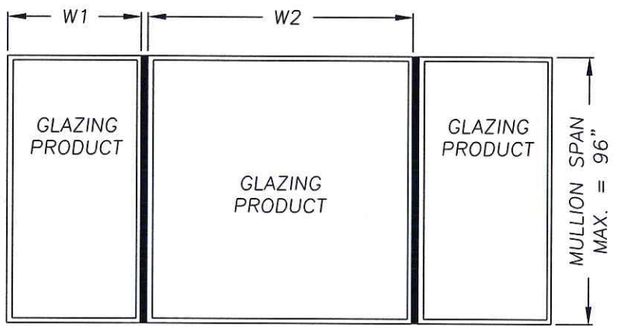


$$\text{TRIBUTARY WIDTH} = \frac{W1 + W2}{2}$$

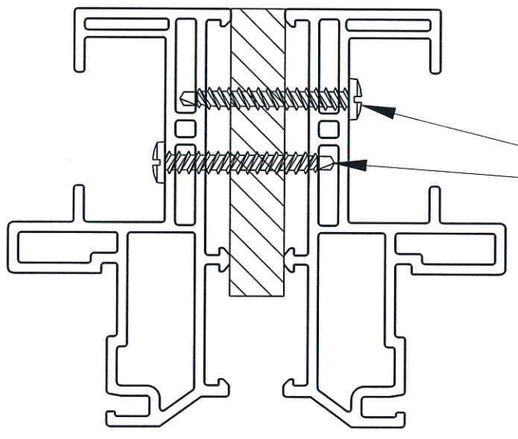


"C-Class" STRUCTURAL MULLION LOAD TABLE (PSF) - 2.5"

WOOD SCREW ANCHORS	TRIBUTARY WIDTH	24"	30"	36"	40"	46"	50"	54"	60"	66"	72"	78"	84"	96"
MULLION SPAN	96"	41.0	33.0	28.0	25.0	22.0	19.0	18.0	16.0	14.0	13.0	12.0	11.0	10.0
	94"	43.0	35.0	30.0	27.0	24.0	20.0	18.0	16.0	15.0	14.0	13.0	12.0	10.0
	92"	46.0	38.0	32.0	29.0	26.0	21.0	19.0	17.0	16.0	14.0	13.0	12.0	11.0
	90"	50.0	40.0	34.0	31.0	24.0	22.0	20.0	18.0	16.0	15.0	14.0	13.0	11.0
	88"	53.0	43.0	37.0	34.0	25.0	23.0	21.0	19.0	17.0	16.0	14.0	13.0	12.0
	86"	57.0	47.0	40.0	36.0	26.0	24.0	22.0	20.0	18.0	16.0	15.0	14.0	12.0
	84"	61.0	50.0	43.0	39.0	27.0	25.0	23.0	21.0	19.0	17.0	16.0	15.0	13.0
	82"	63.0	53.0	46.0	42.0	29.0	26.0	24.0	22.0	20.0	18.0	17.0	15.0	13.0
	80"	65.0	54.0	48.0	44.0	30.0	28.0	26.0	23.0	21.0	19.0	18.0	16.0	14.0
	78"	67.0	56.0	49.0	36.0	32.0	29.0	27.0	24.0	22.0	20.0	18.0	17.0	15.0
	76"	69.0	58.0	51.0	38.0	33.0	31.0	28.0	25.0	23.0	21.0	19.0	18.0	16.0
	74"	72.0	60.0	53.0	41.0	35.0	32.0	30.0	27.0	24.0	22.0	21.0	19.0	17.0
	72"	74.0	62.0	55.0	43.0	37.0	34.0	32.0	28.0	26.0	24.0	22.0	20.0	18.0
	70"	75.0	64.0	50.0	45.0	39.0	36.0	33.0	30.0	27.0	25.0	23.0	21.0	19.0
	68"	75.0	67.0	54.0	48.0	42.0	38.0	36.0	32.0	29.0	27.0	24.0	23.0	20.0
	66"	75.0	70.0	57.0	51.0	44.0	41.0	38.0	34.0	31.0	28.0	26.0	24.0	21.0
	64"	75.0	72.0	61.0	54.0	47.0	43.0	40.0	36.0	33.0	30.0	28.0	26.0	22.0
	62"	75.0	75.0	64.0	58.0	50.0	46.0	43.0	38.0	35.0	32.0	29.0	27.0	24.0
	60"	75.0	75.0	69.0	62.0	54.0	49.0	46.0	41.0	37.0	34.0	32.0	29.0	26.0
	58"	75.0	75.0	73.0	66.0	58.0	53.0	49.0	44.0	40.0	37.0	34.0	31.0	27.0
	56"	75.0	75.0	75.0	70.0	62.0	57.0	53.0	47.0	43.0	39.0	36.0	34.0	29.0
	54"	75.0	75.0	75.0	74.0	66.0	61.0	57.0	51.0	46.0	42.0	39.0	36.0	32.0
	52"	75.0	75.0	75.0	75.0	69.0	65.0	61.0	55.0	50.0	46.0	42.0	39.0	34.0
	50"	75.0	75.0	75.0	75.0	73.0	68.0	64.0	59.0	54.0	49.0	46.0	42.0	37.0
	48"	75.0	75.0	75.0	75.0	75.0	72.0	67.0	62.0	57.0	53.0	49.0	46.0	40.0
	40"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	70.0	65.0	60.0	56.0	50.0

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.



SECTION THRU MULLION & FRAME

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 TDI APPROVED WINDOWS BY ALSIDE WINDOWS CAN BE USED IN THIS FASHION.

8.12.13

Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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

TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F–11852

PRODUCT: STRUCTURAL MULLION

PART OR ASSEMBLY: 2.5" MULLION LOAD TABLE FOR WOOD SCREW ANCHORS

NO.	DATE	BY	REVISIONS

DATE: 8/08/13
SCALE: NTS
DWG. BY: AL
CHK. BY: LFS
DRAWING NO.: TX–4360
SHEET 4 OF 6

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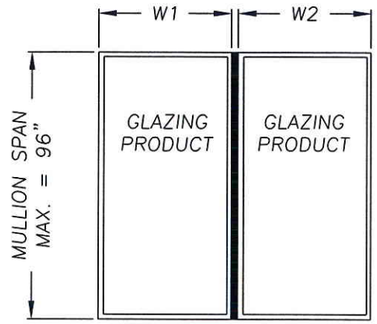
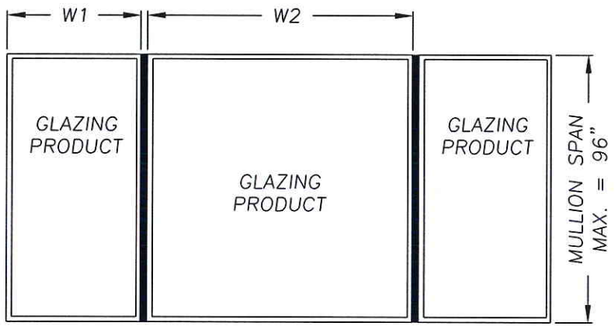
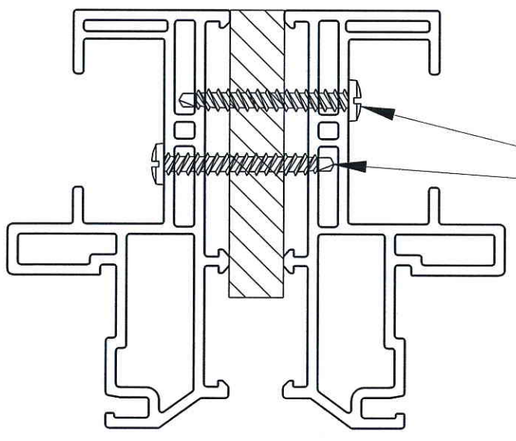
R:\A - Projects\Project Folders\Proj 1301-1400\PF 1309\TEXAS - TDI\TDI-C Class Structural Mullion\TDI



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



CONCRETE SCREW ANCHORS	"C-Class" STRUCTURAL MULLION LOAD TABLE (PSF) - 2.5"												
	TRIBUTARY WIDTH												
MULLION SPAN	24"	30"	36"	40"	46"	50"	54"	60"	66"	72"	78"	84"	96"
96"	41.0	33.0	28.0	25.0	22.0	19.0	18.0	16.0	14.0	13.0	12.0	11.0	10.0
94"	43.0	35.0	30.0	27.0	24.0	20.0	18.0	16.0	15.0	14.0	13.0	12.0	10.0
92"	46.0	38.0	32.0	29.0	26.0	21.0	19.0	17.0	16.0	14.0	13.0	12.0	11.0
90"	50.0	40.0	34.0	31.0	24.0	22.0	20.0	18.0	16.0	15.0	14.0	13.0	11.0
88"	53.0	43.0	37.0	34.0	25.0	23.0	21.0	19.0	17.0	16.0	14.0	13.0	12.0
86"	56.0	47.0	40.0	36.0	26.0	24.0	22.0	20.0	18.0	16.0	15.0	14.0	12.0
84"	58.0	48.0	42.0	39.0	27.0	25.0	23.0	21.0	19.0	17.0	16.0	15.0	13.0
82"	60.0	50.0	43.0	40.0	29.0	26.0	24.0	22.0	20.0	18.0	17.0	15.0	13.0
80"	61.0	51.0	45.0	42.0	30.0	28.0	26.0	23.0	21.0	19.0	18.0	16.0	14.0
78"	63.0	53.0	46.0	36.0	32.0	29.0	27.0	24.0	22.0	20.0	18.0	17.0	15.0
76"	65.0	55.0	48.0	38.0	33.0	31.0	28.0	25.0	23.0	21.0	19.0	18.0	16.0
74"	67.0	56.0	50.0	41.0	35.0	32.0	30.0	27.0	24.0	22.0	21.0	19.0	17.0
72"	70.0	58.0	51.0	43.0	37.0	34.0	32.0	28.0	26.0	24.0	22.0	20.0	18.0
70"	72.0	61.0	50.0	45.0	39.0	36.0	33.0	30.0	27.0	25.0	23.0	21.0	19.0
68"	75.0	63.0	54.0	48.0	42.0	38.0	36.0	32.0	29.0	27.0	24.0	23.0	20.0
66"	75.0	65.0	57.0	51.0	44.0	41.0	38.0	34.0	31.0	28.0	26.0	24.0	21.0
64"	75.0	68.0	60.0	54.0	47.0	43.0	40.0	36.0	33.0	30.0	28.0	26.0	22.0
62"	75.0	71.0	63.0	58.0	50.0	46.0	43.0	38.0	35.0	32.0	29.0	27.0	24.0
60"	75.0	74.0	65.0	61.0	54.0	49.0	46.0	41.0	37.0	34.0	32.0	29.0	26.0
58"	75.0	75.0	68.0	63.0	57.0	53.0	49.0	44.0	40.0	37.0	34.0	31.0	27.0
56"	75.0	75.0	72.0	66.0	60.0	56.0	52.0	47.0	43.0	39.0	36.0	34.0	29.0
54"	75.0	75.0	75.0	69.0	62.0	58.0	55.0	50.0	46.0	42.0	39.0	36.0	32.0
52"	75.0	75.0	75.0	73.0	65.0	61.0	57.0	53.0	49.0	45.0	42.0	39.0	34.0
50"	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
48"	75.0	75.0	75.0	75.0	72.0	67.0	63.0	58.0	53.0	50.0	46.0	43.0	38.0
40"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	72.0	66.0	61.0	57.0	53.0	47.0



SECTION THRU MULLION & FRAME

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 TDI APPROVED WINDOWS BY ALSIDE WINDOWS CAN BE USED IN THIS FASHION.

STATE OF TEXAS · LYNDON F. SCHMIDT · 104123 · LICENSED PROFESSIONAL ENGINEER

8-12-13

Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123
R|W BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL. 33595
Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: STRUCTURAL MULLION

PART OR ASSEMBLY: 2.5" MULLION LOAD TABLE FOR CONCRETE SCREW ANCHORS

NO.	DATE	BY	REVISIONS

DATE: 8/08/13
SCALE: NTS
DWG. BY: AL
CHK. BY: LFS
DRAWING NO.: TX–4360
SHEET 5 OF 6

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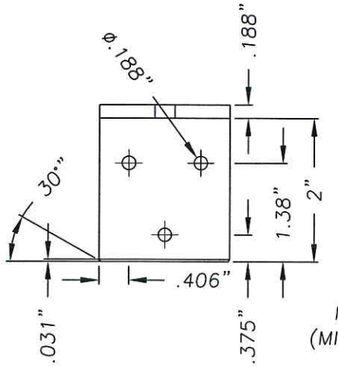
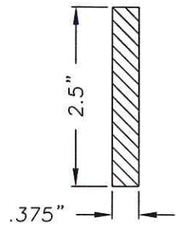
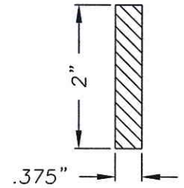
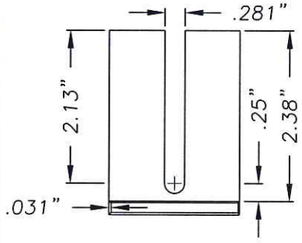




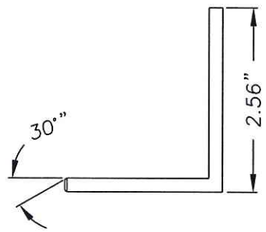
MULLION (2.5")
MAT'L: 1018 STEEL
(MIN. Fy = 50,000 ksi)

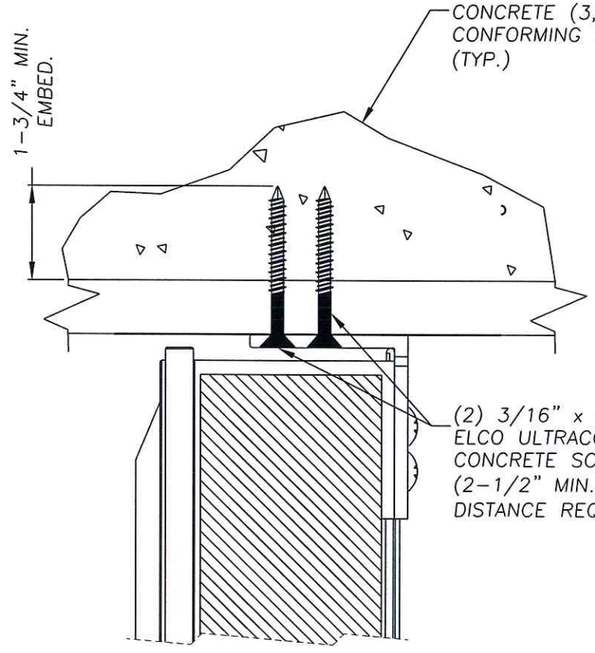


MULLION (2.0")
MAT'L: 1018 STEEL
(MIN. Fy = 50,000 ksi)

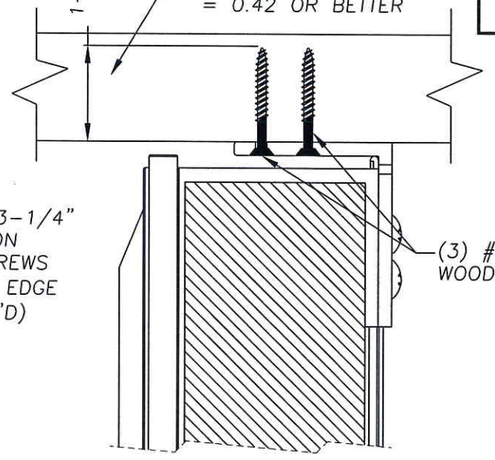


MULLION ANCHOR BRACKET
MAT'L: 6063-T6

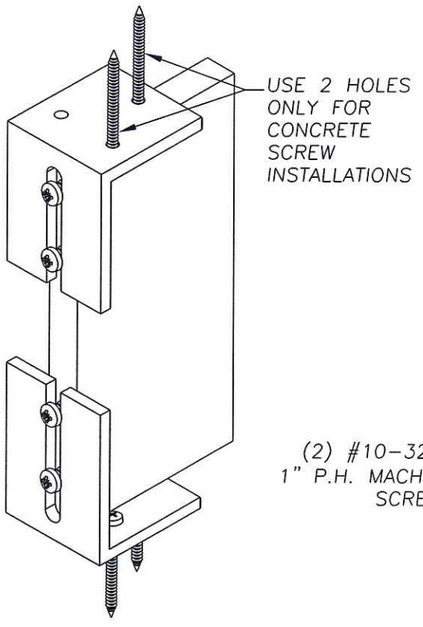




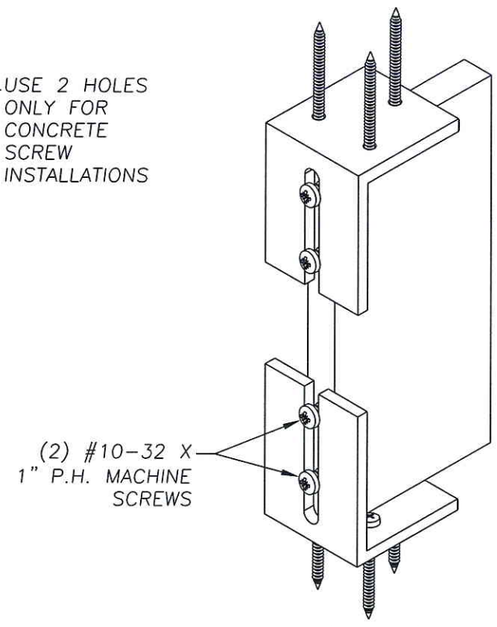
ANCHOR THROUGH 1X BUCK
USING 3/16" X 3-1/4"
CONCRETE SCREWS



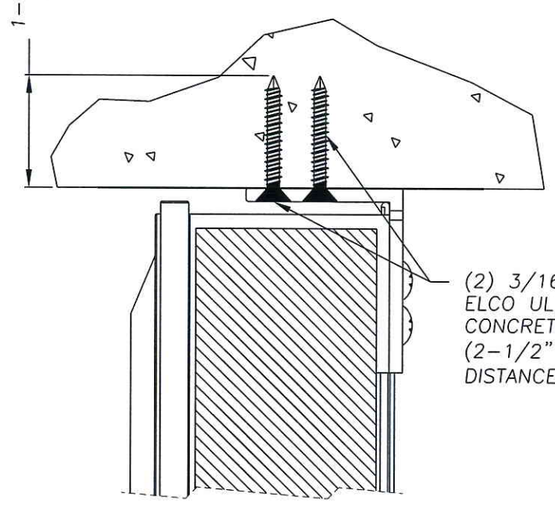
ANCHOR TO 2X STUD OR TO 2X BUCK
USING #10 X 1-1/2"
WOOD SCREWS



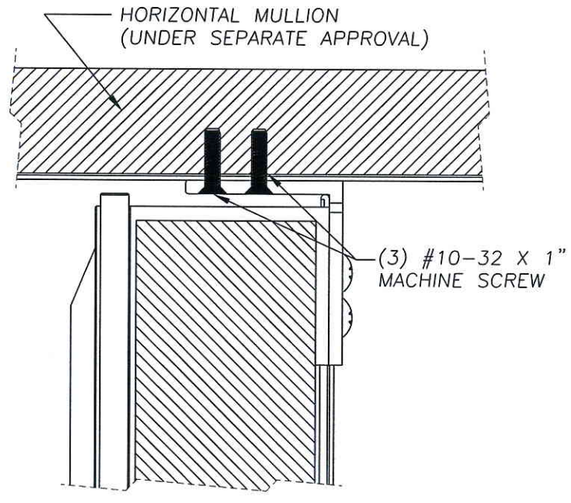
BASIC MULLION
BRACKET ANCHORING
FOR CONCRETE SCREW
CONNECTIONS



BASIC MULLION
BRACKET ANCHORING
FOR WOOD SCREW CONNECTIONS
AND MACHINE SCREW (MULL TO
MULL) CONNECTIONS



ANCHOR TO MASONRY
USING 3/16" X 2-1/4"
CONCRETE SCREWS



MULLION TO MULLION ANCHORING

Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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

TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: STRUCTURAL TRANSOM

PART OR ASSEMBLY: MULLION SECTION & ANCHOR DETAILS

NO.	DATE	BY	REVISIONS

DATE: 8/08/13
SCALE: NTS
DWG. BY: AL
CHK. BY: LFS
DRAWING NO.: TX-4360
SHEET 6 OF 6

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