

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURES DESCRIBED IN DASMA 108. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-98/02/05 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN END ZONE, ROOF SLOPE 10' OR LESS, AND I=1.0):

WIND SPEED (MPH)	136	123	117	112	107
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE 16'2" x 14'

DESIGN LOADS  
+25.3 PSF  
-28.7 PSF

TEST LOADS  
+38.0 PSF  
-43.1 PSF

Thomas L. Shelmerdine, PE (TX PE #85829)  
Structural Solutions, PA (TX Firm #F-004063)

STATE OF TEXAS  
THOMAS L. SHELMERDINE  
85829  
LICENSED PROFESSIONAL ENGINEER  
TX

5921-G W. Friendly Ave., Greensboro, NC 27410

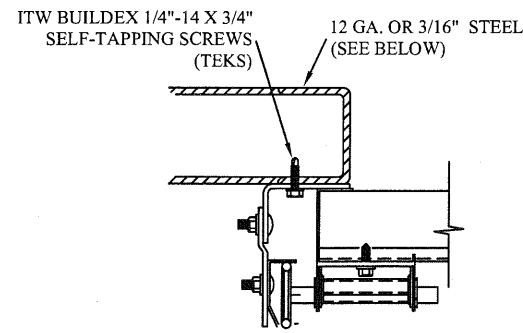
**ENTRE/MATIC**  
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

**MODEL #1380**

SIZE	DRAWN BY	RLR	DATE	11/24/14	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	11/24/14	IBC-1816-136-15

SHEET 1 OF 4

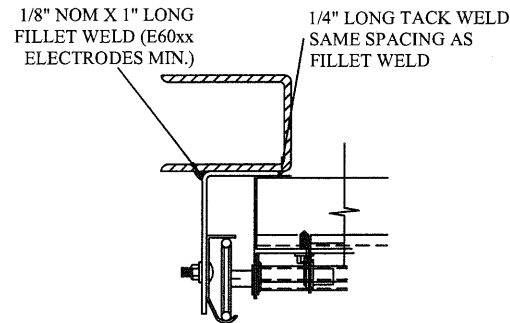
# TRACK CONNECTION DIRECTLY TO STRUCTURE OPTIONS



CLIP STYLE REVERSE ANGLE MOUNT SHOWN  
BRACKET, CONTINUOUS AND TAPERED ANGLE  
MOUNT AVAILABLE

12 GA. STEEL FRAMING  
232 LBS./SCREW ALLOWABLE LOAD - 6" FROM ENDS  
AND 12" O.C.  
REFER TO NOTES: 1, 2 AND 5

3/16" STEEL FRAMING  
569 LBS./SCREW ALLOWABLE LOAD - 6" FROM ENDS  
AND 24" O.C.  
REFER TO NOTES: 1, 2 AND 5

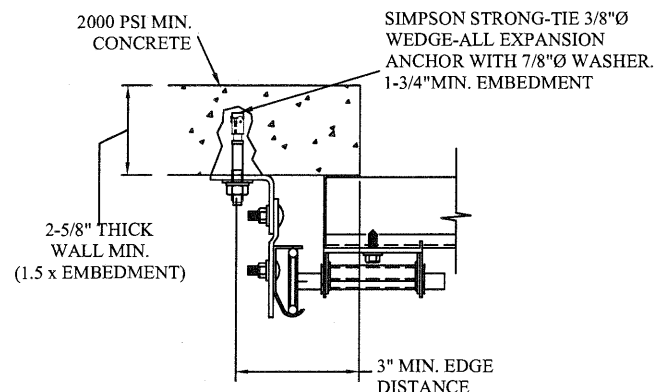


REVERSE ANGLE MOUNT SHOWN  
BRACKET, CONTINUOUS AND TAPERED  
ANGLE MOUNT AVAILABLE

STEEL FRAMING 12GA OR BETTER  
1590 LBS./IN. ALLOWABLE LOAD - 6"  
FROM ENDS AND 24" O.C.  
REFER TO NOTES: 1, 2, 5, 6, 7, 8 AND 9

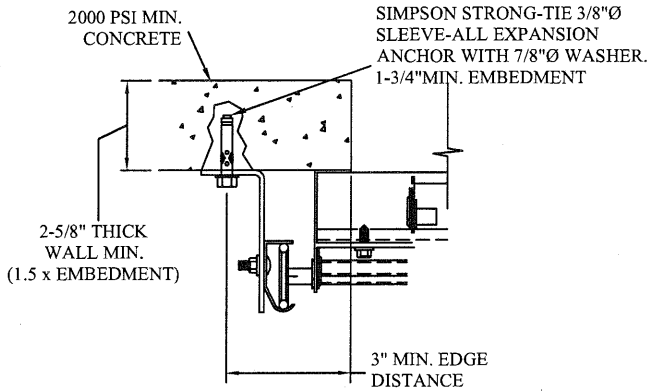
- NOTES:**
1. ANCHORS TO BE EVENLY SPACED BETWEEN THE HEADER AND FLOOR.
  2. FIRST (BOTTOM) ANCHOR STARTING AT NO MORE THAN HALF OF THE MAXIMUM ON-CENTER DISTANCE. HIGHEST ANCHOR INSTALLED AT LEAST AS HIGH AS THE DOOR OPENING.
  3. MIN. EDGE DISTANCE OF 3" REQUIRED.
  4. USE WASHERS PROVIDED BY THE ANCHOR MANUFACTURER.
  5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS IN ADDITION TO OTHER LOADS.
  6. MOST GARAGE DOOR TRACK IS GALVANIZED STEEL. USE ALL NECESSARY PRECAUTIONS WHEN WELDING GALVANIZED STEEL.
  7. ALL WELDS SHOULD BE PERFORMED BY A CERTIFIED WELDER OR INSPECTED BY A CERTIFIED WELDING INSPECTOR TO VERIFY THE INTEGRITY OF THE WELD.
  8. FILLET WELDS TO HAVE A STRAIGHT OR CONVEX FACE SURFACE.
  9. TACK WELD TOE OF ANGLE AT SAME SPACING TO PREVENT ROTATION OF TRACK ANGLE.

# WOOD JAMB ATTACHMENT TO STRUCTURE (OPTIONAL)



CLIP STYLE CONTINUOUS ANGLE MOUNT SHOWN  
BRACKET, REVERSE AND TAPERED ANGLE MOUNT  
AVAILABLE

2000 PSI CONCRETE OR GREATER  
351 LBS./EXPANSION ANCHOR ALLOWABLE LOAD - 6"  
FROM ENDS AND 18" O.C.  
REFER TO NOTES: 1, 2, 3, 4 AND 5



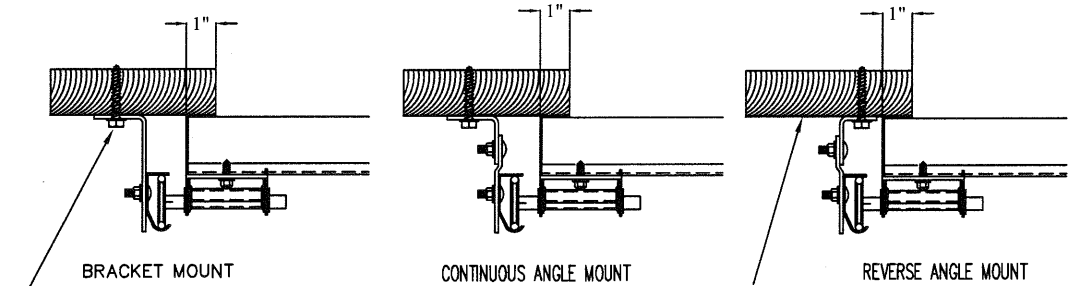
CONTINUOUS ANGLE MOUNT SHOWN  
BRACKET, CONTINUOUS AND TAPERED ANGLE  
MOUNT AVAILABLE

2000 PSI CONCRETE OR GREATER  
336 LBS./EXPANSION ANCHOR ALLOWABLE LOAD - 6"  
FROM ENDS AND 18" O.C.  
REFER TO NOTES: 1, 2, 3, 4 AND 5

- 2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE**  
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS  
THEN 24" O.C. (1 1/2" EMBEDMENT)
- 2 X 6 VERTICAL JAMB ATTACHMENT TO 2,000 PSI CONCRETE**  
HILTI KWIK BOLT 3/8" X 4" STARTING 6" FROM ENDS  
THEN 24" O.C. (2 1/2" EMBEDMENT)  
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS  
THEN 20" O.C. (1 1/4" EMBEDMENT)  
ITW/RAMSET REDHEAD (TRU-BOLT) 3/8" X 4" STARTING 6" FROM ENDS  
THEN 24" O.C. (2 1/2" EMBEDMENT)
- 2 X 6 VERTICAL JAMB ATTACHMENT TO HOLLOW C-90 BLOCK**  
SIMPSON 1/4" X 3" TITEN SCREWS STARTING 6" FROM ENDS,  
USE PAIRS OF FASTENERS (3" APART)  
AT 16" O.C. (1 1/2" EMBEDMENT)  
HILTI 1/4" X 2-3/4" KWIK-CON II+ SCREWS STARTING 6" FROM ENDS,  
USE PAIRS OF FASTENERS (3" APART) AT 16" O.C. (1 1/4" EMBEDMENT)
- 2 X 6 VERTICAL JAMB ATTACHMENT TO GROUTED C-90 BLOCK (2000 PSI GROUT)**  
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS  
THEN 24" O.C. (1 1/4" EMBEDMENT)  
(OR, USE FASTENERS FOR HOLLOW C-90 BLOCK)
- \*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.  
\*PREPARATION OF WOOD JAMBS BY OTHERS

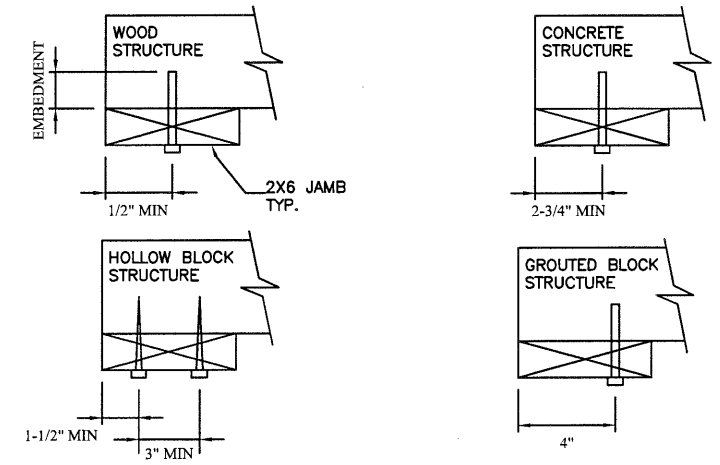
# TRACK CONNECTION TO WOOD JAMB OPTIONS

FOR LAG SCREWS & BRACKET SPACING SEE TRACK CONFIGURATION DETAIL



5/16" x 1 5/8" LAG SCREW (1) PER  
JAMB BRACKET (1-1/2" EMBEDMENT  
MINIMUM) (TYP.)

2x6 WOOD JAMB SYP OR SPF  
(NO.2) OR BETTER (TYP.)



REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE  
16'2" x 14'

DESIGN LOADS  
+25.3 PSF  
-28.7 PSF

TEST LOADS  
+38.0 PSF  
-43.1 PSF

Thomas L. Shelmerdine, PE (TX PE #85829)  
Structural Solutions, PA (TX Firm #004063)

STATE OF TEXAS  
THOMAS L. SHELMERDINE  
85829  
LICENSED PROFESSIONAL ENGINEER  
TX

9921-G W. Friendly Ave., Greensboro, NC 27410

**ENTRE/MATIC**

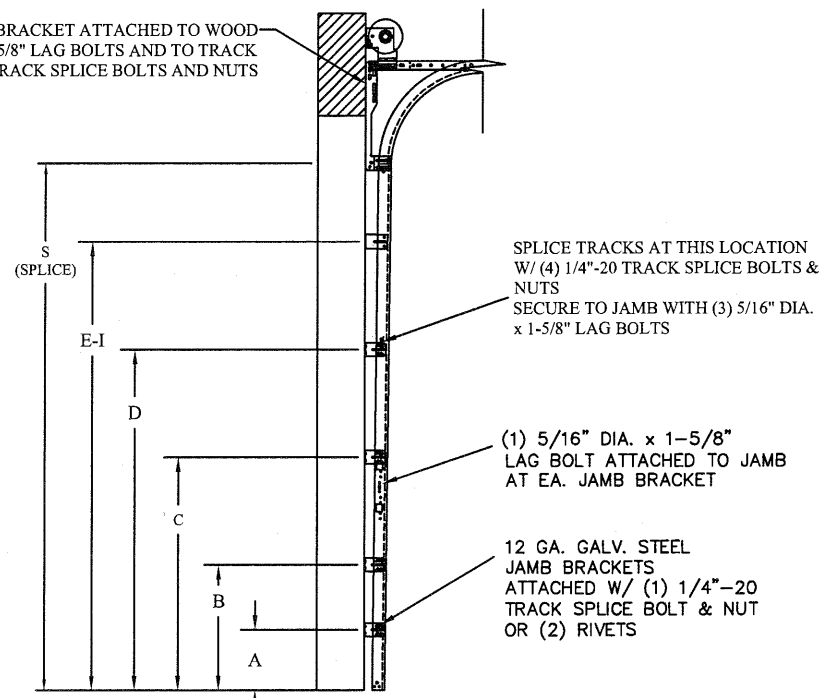
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

**MODEL #1380**

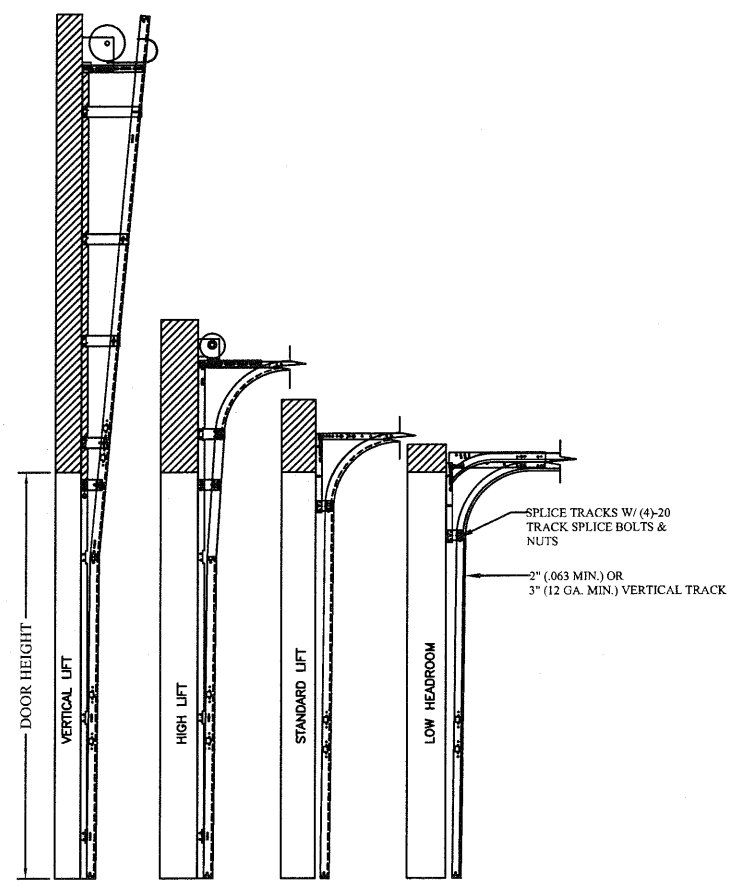
SIZE	DRAWN BY	RLR	DATE	11/24/14	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	11/24/14	IBC-1816-136-15

SHEET 2 OF 4

14 GA. FLAG BRACKET ATTACHED TO WOOD JAMB W/ (3) 5/16 DIA. X 1-5/8" LAG BOLTS AND TO TRACK W/ (4) 1/4"-20 X 5/8" TRACK SPLICE BOLTS AND NUTS



TRACK CONFIGURATION FOR 8' TALL DOORS  
N.T.S.  
SEE TABLE 2 FOR TRACK ATTACHMENT SPACING



AVAILABLE TRACK CONFIGURATIONS  
N.T.S.

TABLE 1

Section Width (ft)	Center Stile Locations (Measured from Left Edge)			Max Design Loads Allowed	
	1st (in)	2nd (in)	3rd (in)	Positive (PSF)	Negative (PSF)
12' 4"	51.084	96.916	-	25.1	28.5
12' 6"	51.170	98.830	-	24.7	28.0
12' 8"	52.100	99.900	-	24.4	27.7
12' 10"	53.100	100.900	-	24.2	27.4
13' 0"	54.100	101.900	-	23.9	27.1
13' 2"	55.1	102.9	-	23.7	26.9
13' 4"	54.900	105.100	-	23.2	26.3
13' 6"	55.900	106.100	-	23.0	26.1
13' 8"	56.625	107.375	-	22.7	25.7
13' 10"	57.170	108.830	-	22.4	25.4
14' 0"	58.625	109.375	-	22.3	25.3
14' 2"	59.2	110.8	-	22.0	24.9
14' 4"	60.170	111.830	-	21.8	24.7
14' 6"	61.170	112.830	-	21.6	24.5
14' 8"	44.812	88.000	131.188	27.7	31.4
14' 10"	45.600	89.000	132.400	27.4	31.1
15' 0"	46.600	90.000	133.400	27.1	30.7
15' 2"	47.6	91.0	134.4	26.8	30.4
15' 4"	47.250	92.000	136.750	26.5	30.1
15' 6"	47.600	93.000	138.400	26.2	29.7
15' 8"	48.600	94.000	139.400	25.9	29.4
15' 10"	49.167	95.000	140.833	25.7	29.1
16' 0"	50.600	96.000	141.400	25.4	28.8
16' 2"	51.2	97.0	142.8	25.3	28.7

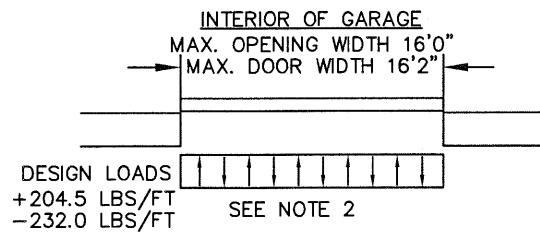
TABLE 2

DOOR HEIGHT	TRACK ATTACHMENT									TYPICAL SPLICE
	A	B	C	D	E	F	G	H	I	
7' 0"	10.0"	21"	39"	57"						76"
7' 6"	10.0"	21"	39"	57"	75"					82"
8' 0"	10.0"	21"	39"	57"	75"					88"
9' 0"	10.0"	21"	39"	57"	75"	93"				100"
9' 6"	10.0"	21"	39"	57"	75"	93"				106"
10' 0"	10.0"	21"	39"	57"	75"	93"				112"
11' 0"	10.0"	21"	39"	57"	75"	93"	111"			124"
12' 0"	10.0"	21"	39"	57"	75"	93"	111"	129"		136"
13' 0"	10.0"	21"	39"	57"	75"	93"	111"	129"		148"
14' 0"	10.0"	21"	39"	57"	75"	93"	111"	129"	147"	160"

ALL TRACK ATTACHMENT SPACING +/-2" ALLOWED WITH SPF OR SYP NO. 2 OR BETTER ONLY

SPECIFICATIONS AND NOTES

- ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE VERTICAL TRACK, FROM THE TRACK THE LOAD IS TRANSFERRED TO THE VERTICAL JAMBS. THE HORIZONTAL JAMB OR HEADER RECEIVES NO PORTION OF THE LOAD TRANSFERRED FROM THE DOOR.
- EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +204.5 LBS/FT & -232.0 LBS/FT
- DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
- DOOR SECTIONS SHALL BE 27 GA. (.015) MIN. EXTERIOR SKIN ROLLED FORMED, W/ BAKED ON POLYESTER FINISH
- DOORS UP TO 14'0" HIGH HAVE (2) 3" 20GA STRUTS PER SECTION
- SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.



DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE  
16'2 x 14'

DESIGN LOADS  
+25.3 PSF  
-28.7 PSF

TEST LOADS  
+38.0 PSF  
-43.1 PSF

TX

Thomas L. Shelmerdine, PE (TX PE #85829)  
Structural Solutions, PA (TX Firm #F-004063)

5921-G W. Friendly Ave., Greensboro, NC 27410

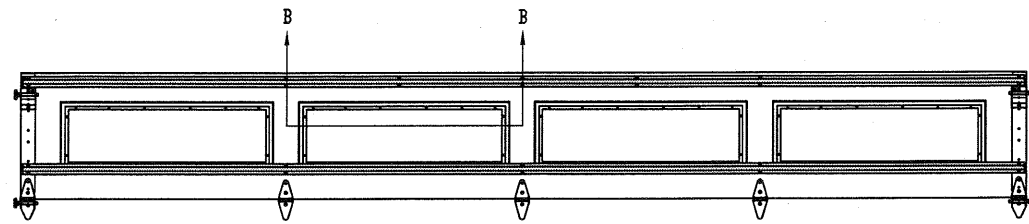
## ENTRE//MATIC

165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

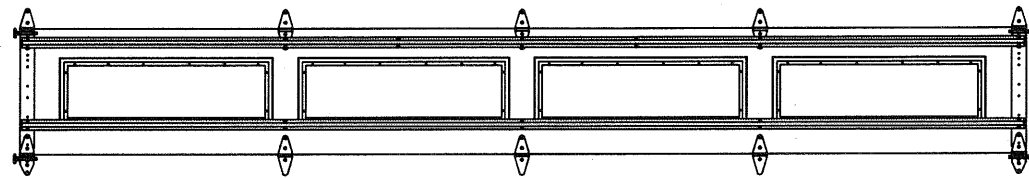
### MODEL #1380

DRAWN BY	RLR	DATE	11/24/14	DRAWING NUMBER	IBC-1816-136-15
CHECKED BY	RLR	DATE	11/24/14		

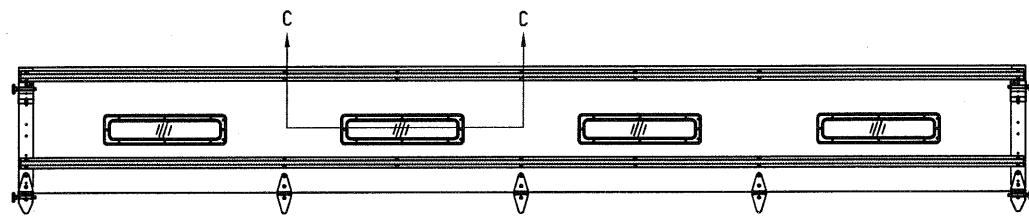
SHEET 3 OF 4



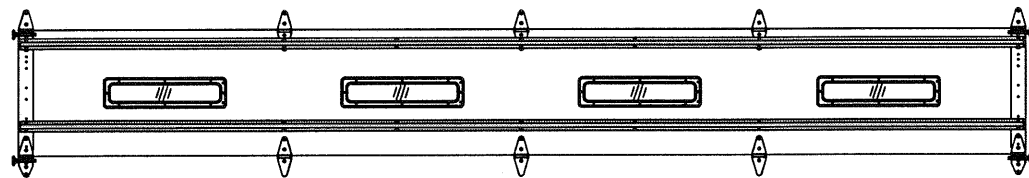
OPTIONAL GLAZED TOP SECTION W/ LONG PANEL WINDOWS AND STRUT LAYOUT  
N.T.S.



OPTIONAL GLAZED INTERMEDIATE SECTION W/ LONG PANEL WINDOWS AND STRUT LAYOUT  
N.T.S.

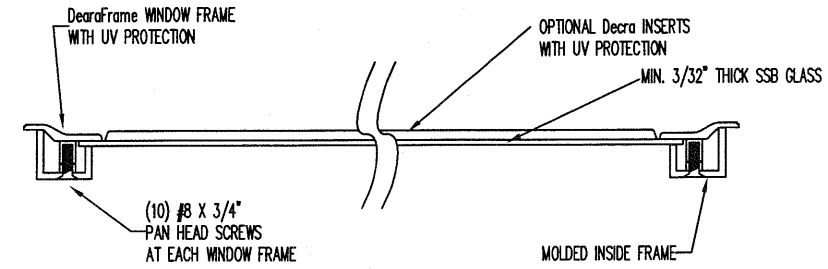


OPTIONAL GLAZED TOP SECTION W/ 24" X 6" WINDOWS AND STRUT LAYOUT  
N.T.S.

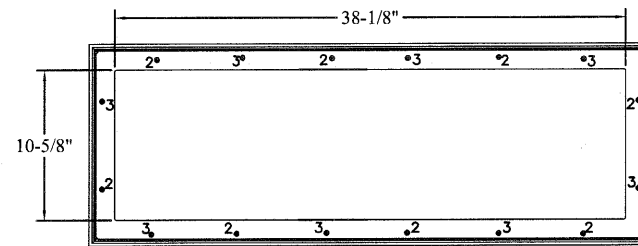


OPTIONAL GLAZED INTERMEDIATE SECTION W/ 24" X 6" WINDOWS AND STRUT LAYOUT  
N.T.S.

GLAZING NOT AVAILABLE IN WIND-BORNE DEBRIS REGION  
LONG PANEL GLAZING MEETS ASTM E1300-04

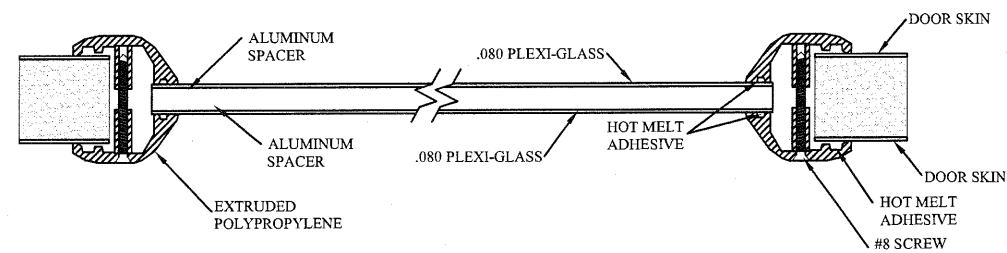


SECTION B-B RESIDENTIAL LONG PANEL WINDOW DETAIL  
N.T.S.

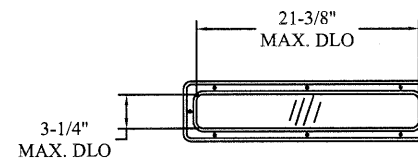


LONG PANEL GLAZING FASTENER DETAIL

N.T.S.



SECTION C-C 24" X 6" WINDOW DETAIL W/ .080 PLEXI-GLASS  
N.T.S.



24" X 6" DAY LIGHT OPENING AND FASTENER DETAIL  
N.T.S.

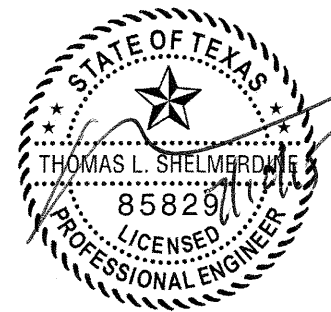
REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE  
16'2" x 14'

DESIGN LOADS  
+25.3 PSF  
-28.7 PSF

TEST LOADS  
+38.0 PSF  
-43.1 PSF

Thomas L. Shelmerdine, PE (TX PE #85829)  
Structural Solutions, PA (TX Firm #F-004063)  
TX



5921-G W. Friendly Ave., Greensboro, NC 27410

**ENTRE/MATIC**

165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

**MODEL #1380**

SIZE	DRAWN BY	RLR	DATE	11/24/14	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	11/24/14	IBC-1816-136-15

SHEET 4 OF 4