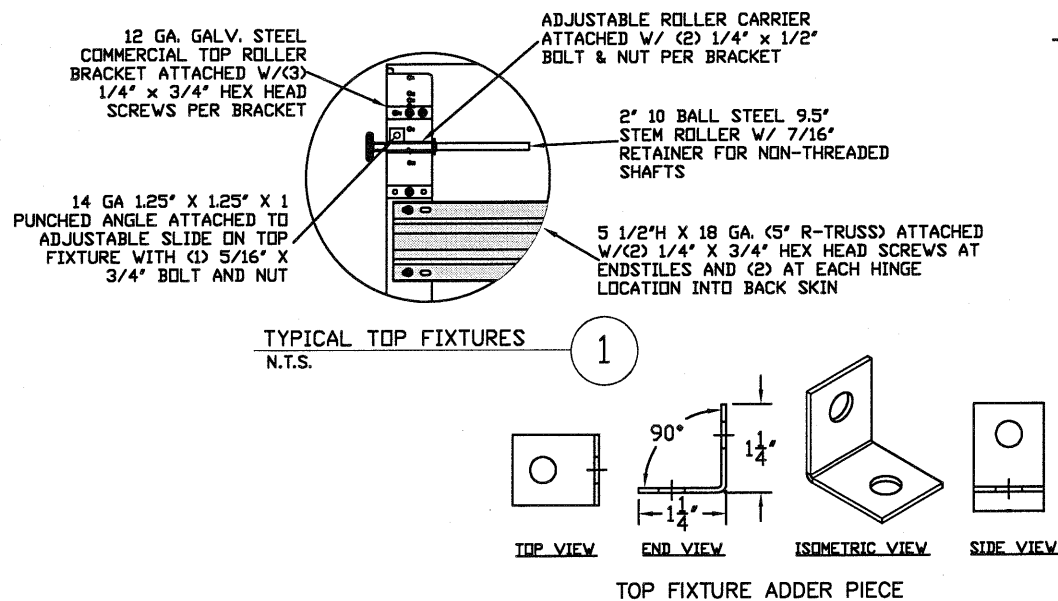
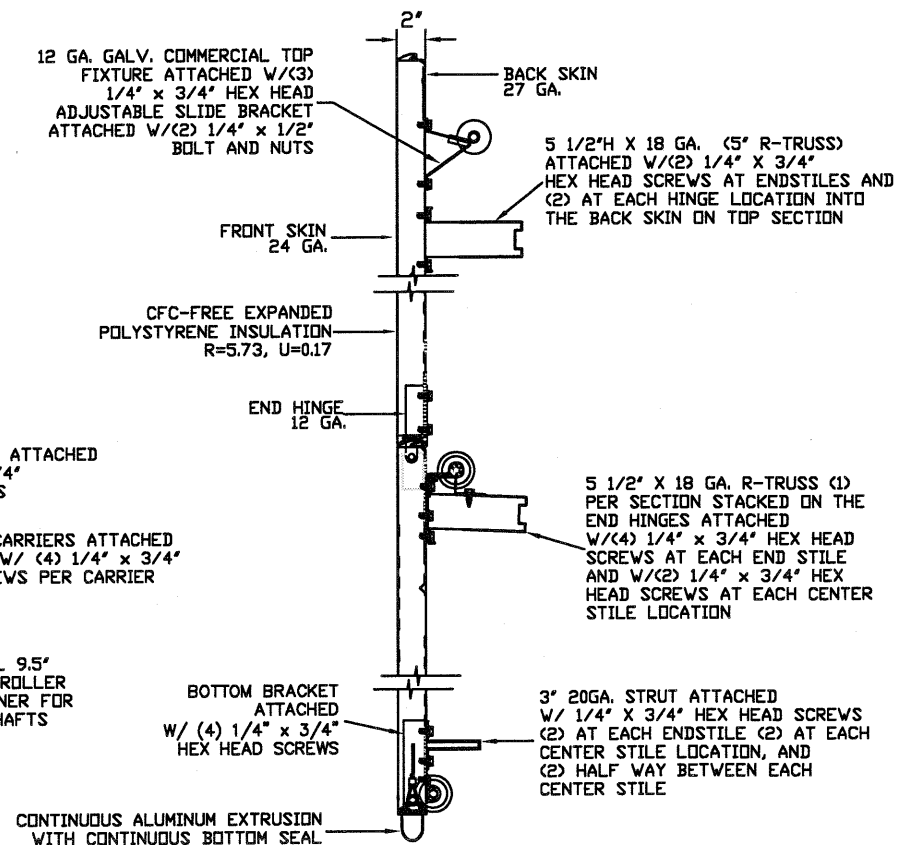
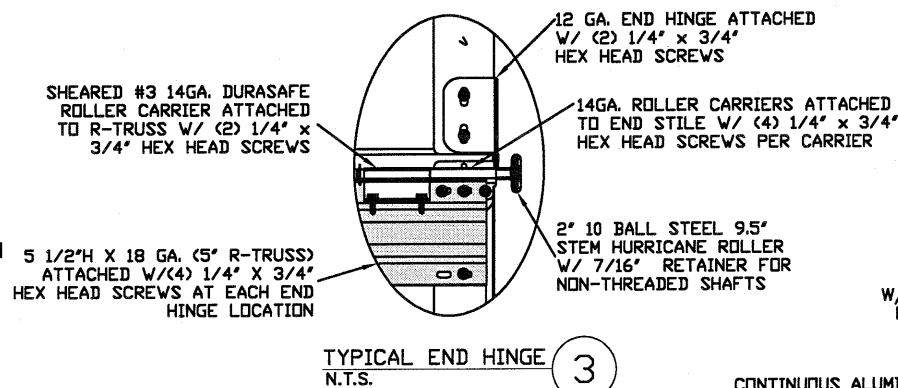
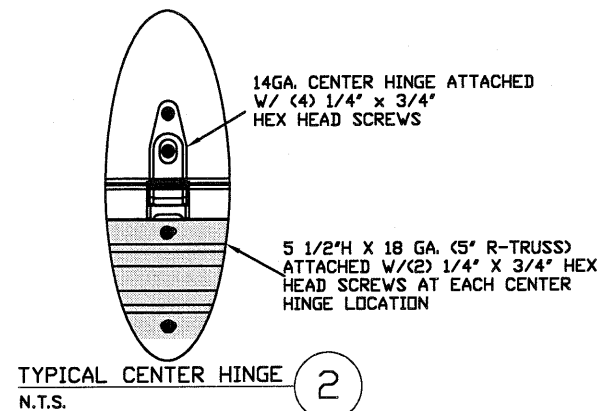
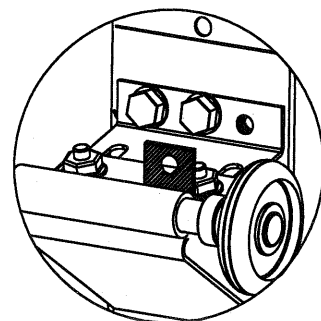
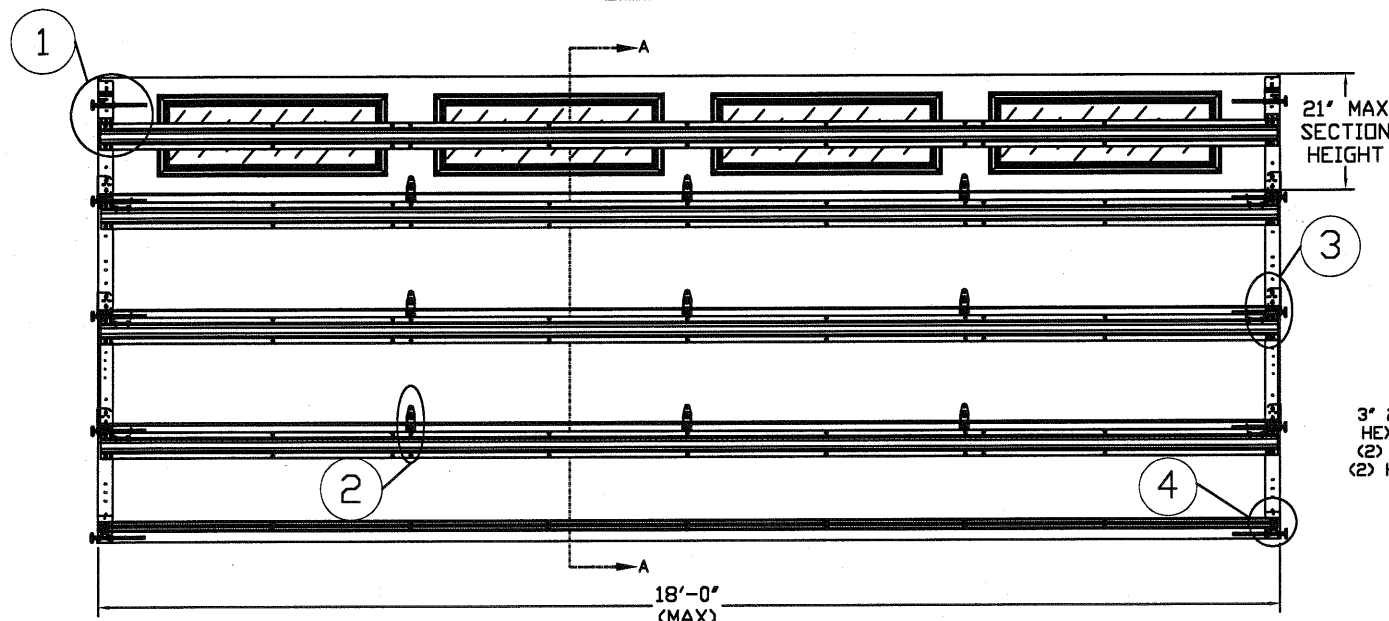




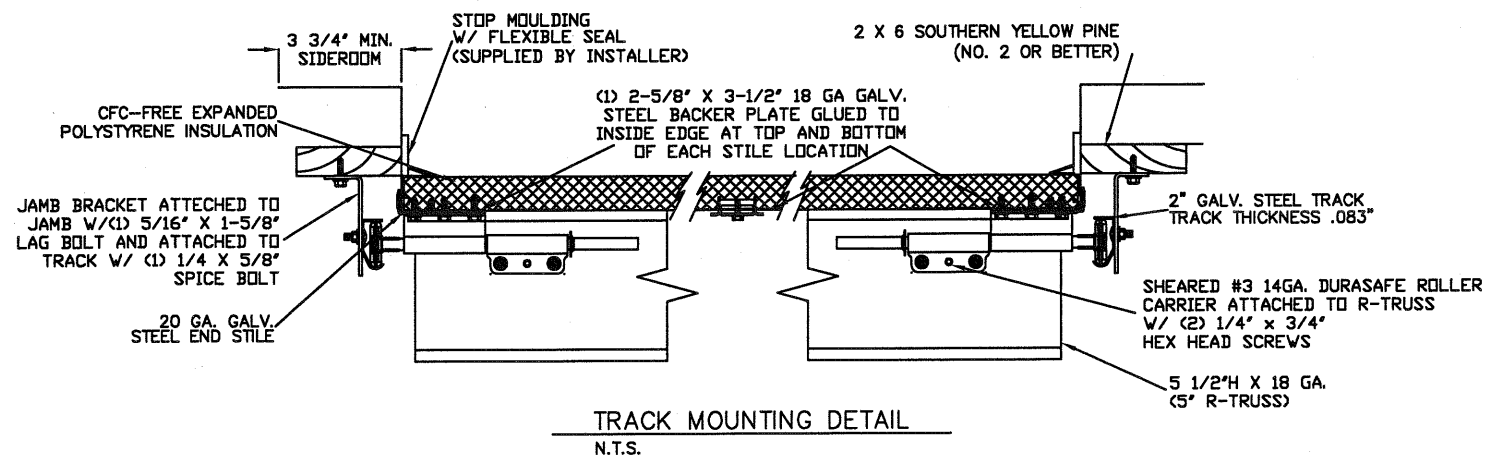
TOP FIXTURE REINFORCEMENT ILLUSTRATION



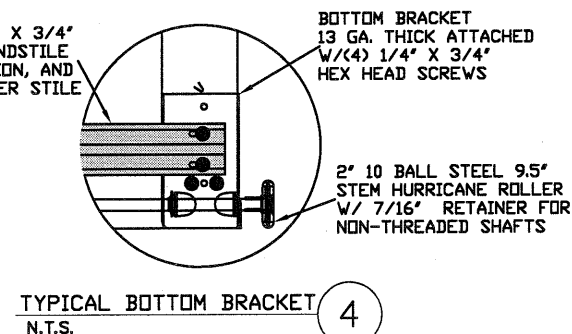
SECTION A-A (SIDE VIEW) N.T.S.



LARGE MISSILE IMPACT RESISTANT



3" 20GA. STRUT ATTACHED W/ 1/4" X 3/4" HEX HEAD SCREWS (2) AT EACH ENDSTILE (2) AT EACH CENTER STILE LOCATION, AND (2) HALF WAY BETWEEN EACH CENTER STILE



SPECIFICATIONS AND NOTES

- DOORS AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +333.0 LBS/FT & -366.3 LBS/FT
- DOOR SECTIONS SHALL BE 24 GA. MIN. (.0216") ROLLED FORMED LIGHT COMMERCIAL QUALITY
- SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E330, E1886, E1996, & F588, ANSI/DASMA 108 & 115. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-16 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN THE END ZONE, ROOF AT ANY SLOPE):

WIND SPEED (MPH)	200	181	172	165	158
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE 18' WIDTH 14' HEIGHT (DOOR HEIGHT SUBJECT TO WEIGHT LIMITATIONS)

DESIGN LOADS +37.0 PSF -40.7 PSF

TEST LOADS (1.5 x DESIGN LOADS) +55.5 PSF -61.1 PSF

LARGE MISSILE IMPACT RESISTANCE

Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412)

THOMAS L. SHELMERDINE LICENSE No. 48579 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL

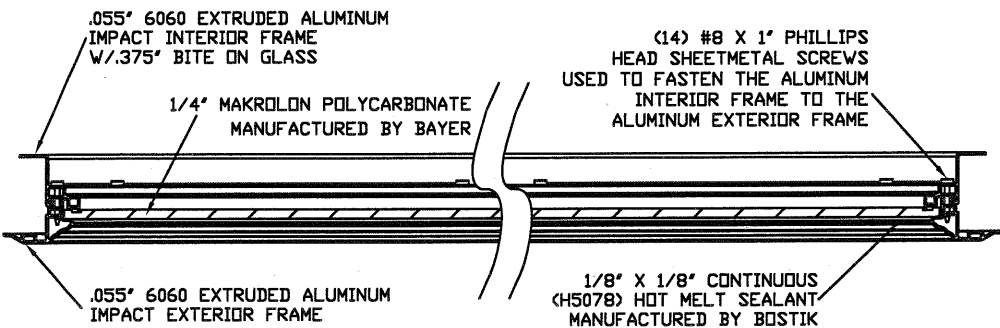
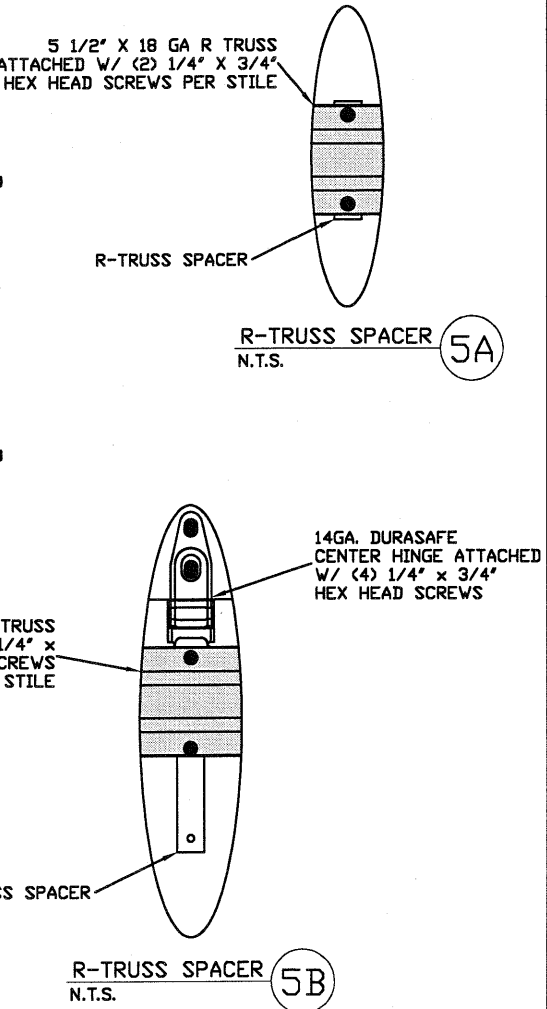
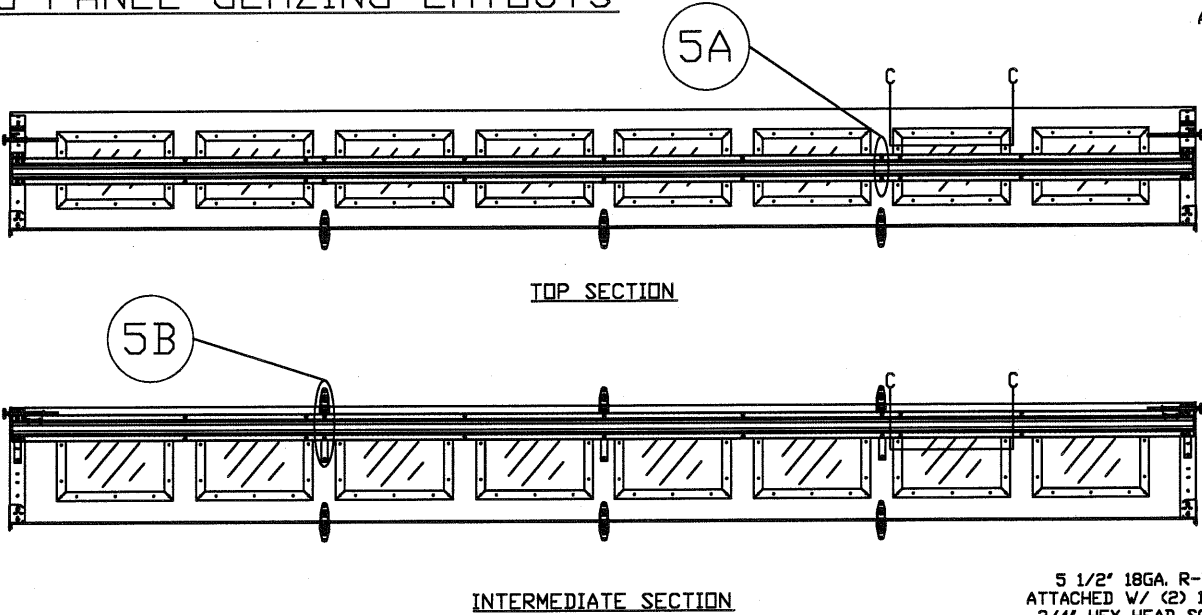
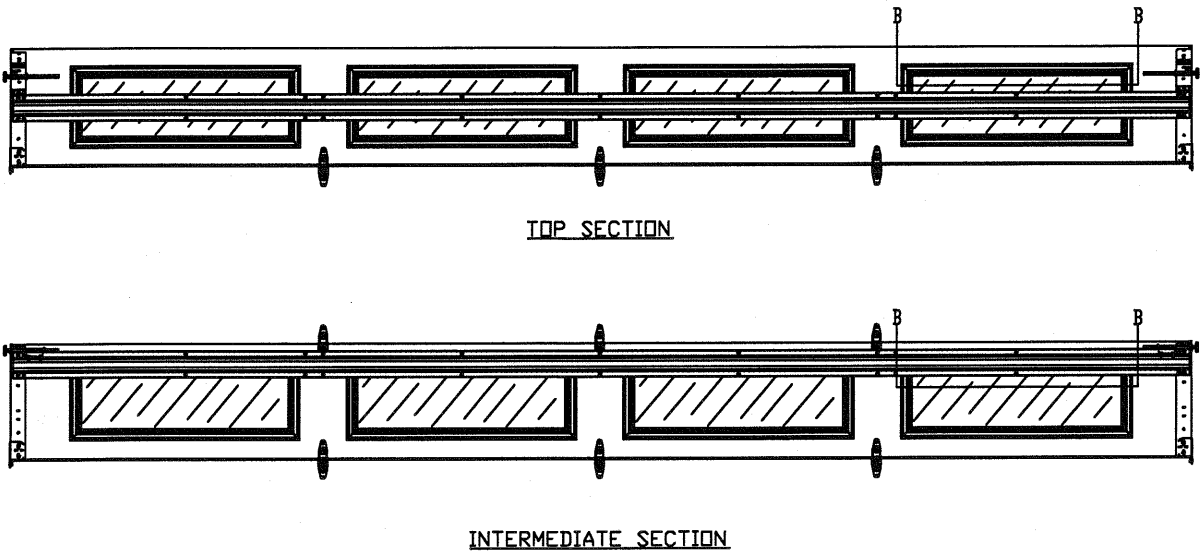
dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410

Amarr

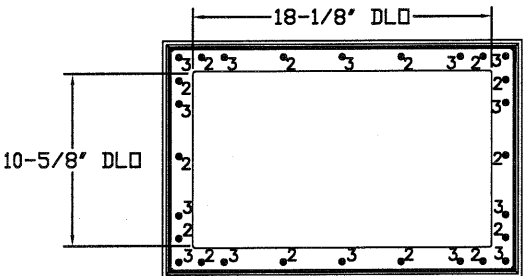
MODEL #1200 HERITAGE 3000
MODEL #1200 OAK SUMMIT 3000
SHORT, LONG, FLUSH & OAK SUMMIT PANELS

SIZE	DRAWN BY	RLR	DATE	06/12/14	DRAWING NUMBER
B	CHECKED BY		DATE		IRC-1218-155-26-1
ENTREMATTEC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105					SHEET 1 OF 3

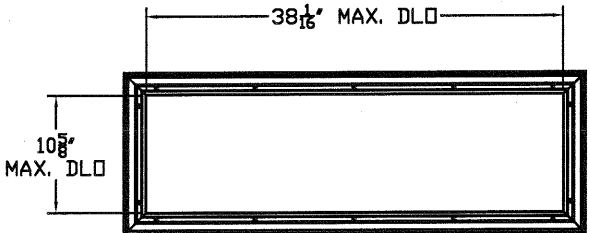
OPTIONAL SHORT AND LONG PANEL GLAZING LAYOUTS



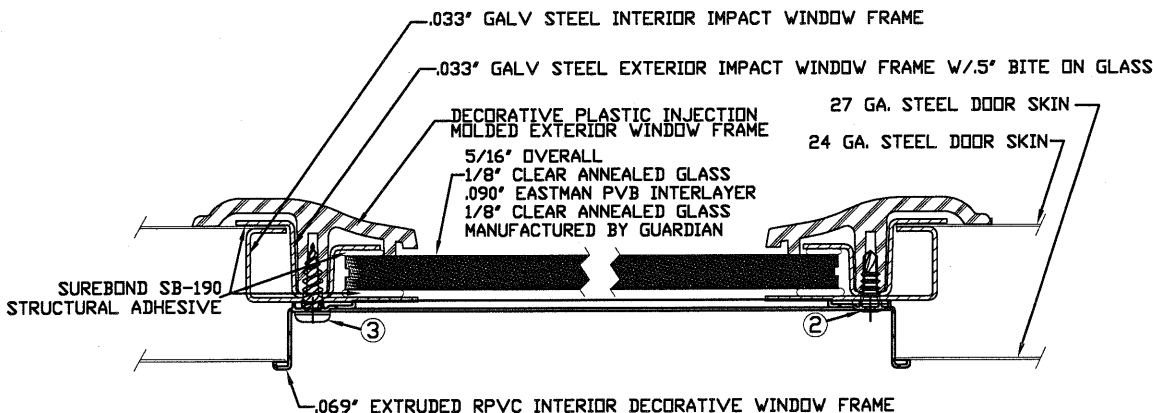
SECTION B-B IMPACT WINDOW DETAIL
N.T.S.



IMPACT GLAZING FASTENER DETAIL
N.T.S.
GLAZING MEETS ASTM E1300-04



LONG PANEL IMPACT GLAZING FASTENER DETAIL
N.T.S.



2. 3/16" X 1/2" SCREW - USED TO FASTEN THE STEEL EXTERIOR IMPACT WINDOW FRAME TO THE STEEL INTERIOR IMPACT WINDOW FRAME.
3. 11/64" X 1/2" SCREW - USED TO FASTEN DECORATIVE PLASTIC MOLDED WINDOW FRAME TO THE ASSEMBLY

SECTION C-C IMPACT WINDOW DETAIL
N.T.S.

WOOD JAMB ATTACHMENT TO STRUCTURE

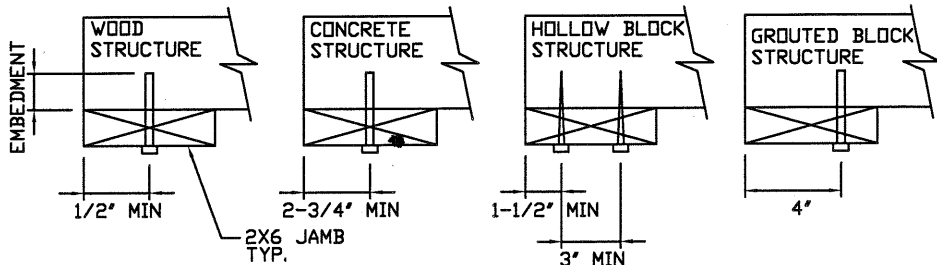
2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 14" O.C. (1 1/2" EMBEDMENT)

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 12" 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 8" 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 8" 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 14" 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



REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
18" WIDTH
14" HEIGHT
(DOOR HEIGHT SUBJECT TO WEIGHT LIMITATIONS)

DESIGN LOADS
+37.0 PSF
-40.7 PSF

TEST LOADS
(1.5 x DESIGN LOADS)
+55.5 PSF
-61.1 PSF

LARGE MISSILE
IMPACT
RESISTANCE

Thomas L. Shelmerdine, PE (FL PE #0048579)
Structural Solutions, PA (FL Firm #29412)

THOMAS L. SHELMERDINE
LICENSE
No. 48579
8/2/25
STATE OF FLORIDA
PROFESSIONAL ENGINEER
FL

dba Structural Solutions of North Carolina, Inc.
5921-G W. Friendly Ave., Greensboro, NC 27410

Amarr

MODEL #1200 HERITAGE 3000
MODEL #1200 OAK SUMMIT 3000
SHORT, LONG, FLUSH & OAK SUMMIT PANELS

SIZE	DRAWN BY	R/R	DATE	06/12/14	DRAWING NUMBER
B	CHECKED BY		DATE		IRC-1218-155-26-1

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

SHEET 2 OF 3

TABLE 1

DOOR HEIGHT	SECTION HEIGHTS							
	Btm	#2	#3	#4	#5	#6	#7	#8
14' 0"	21"	21"	21"	21"	21"	21"	21"	21"
13' 6"	21"	21"	21"	21"	21"	18"	18"	21"
13' 0"	21"	21"	21"	18"	18"	18"	18"	21"
12' 6"	21"	18"	18"	18"	18"	18"	18"	21"
12' 0"	21"	21"	21"	21"	21"	18"	21"	
11' 6"	21"	21"	21"	18"	18"	18"	21"	
11' 0"	21"	18"	18"	18"	18"	18"	21"	
10' 6"	21"	21"	21"	21"	21"	21"		
10' 0"	21"	21"	21"	18"	18"	21"		
9'6"	21"	18"	18"	18"	18"	21"		
9' 0"	18"	18"	18"	18"	18"	18"		
8' 6"	21"	21"	21"	18"	21"			
8' 0"	21"	18"	18"	18"	21"			
7' 6"	18"	18"	18"	18"	18"			
7' 0"	21"	21"	21"	21"				
6' 6"	21"	18"	18"	21"				

TABLE 2

DOOR HEIGHT	TRACK ATTACHMENT														SPLICE
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	
6' 6"	3.5"	10"	22"	34"	46"	58"									70"
7'	3.5"	10"	22"	34"	46"	58"	70"								76"
7' 6"	3.5"	10"	22"	34"	46"	58"	70"								82"
8'	3.5"	10"	22"	34"	46"	58"	70"	82"							94"
8' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"							94"
9'	3.5"	10"	22"	34"	46"	58"	70"	82"	94"						106"
9' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"						106"
10'	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"					112"
10' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"					118"
11'	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"				124"
11' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"				130"
12'	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"			136"
12' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"			142"
13'	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"		148"
13' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"		154"
14'	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	160"

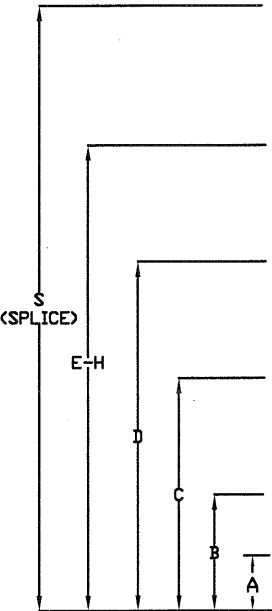
ALL TRACK ATTACHMENT SPACING +/-2" ALLOWED WITH SYP NO. 2 OR BETTER ONLY

TABLE 3

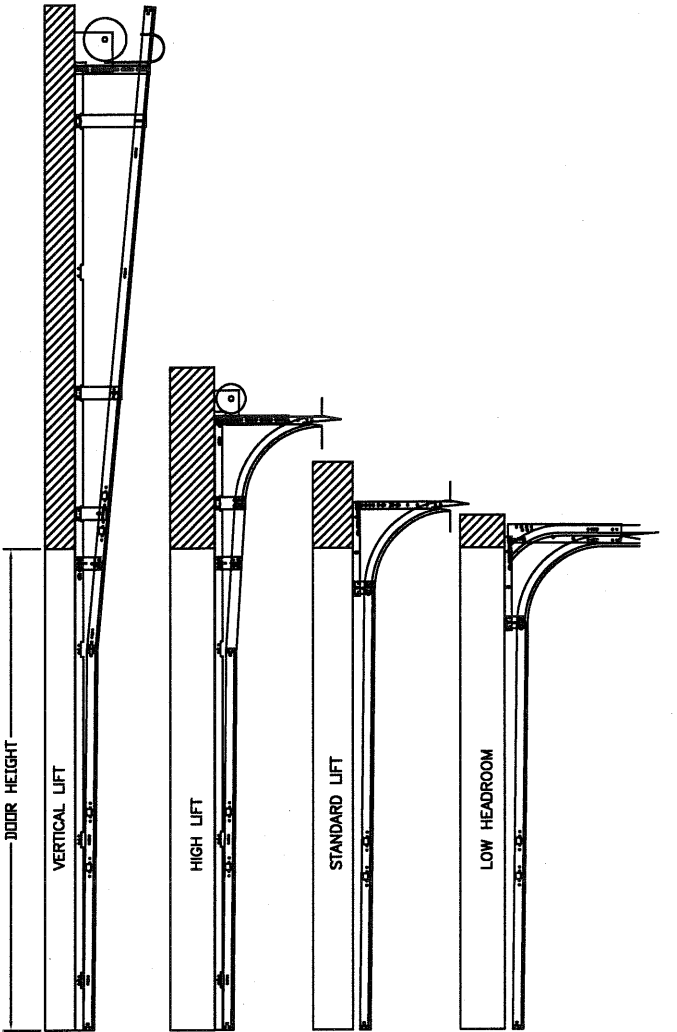
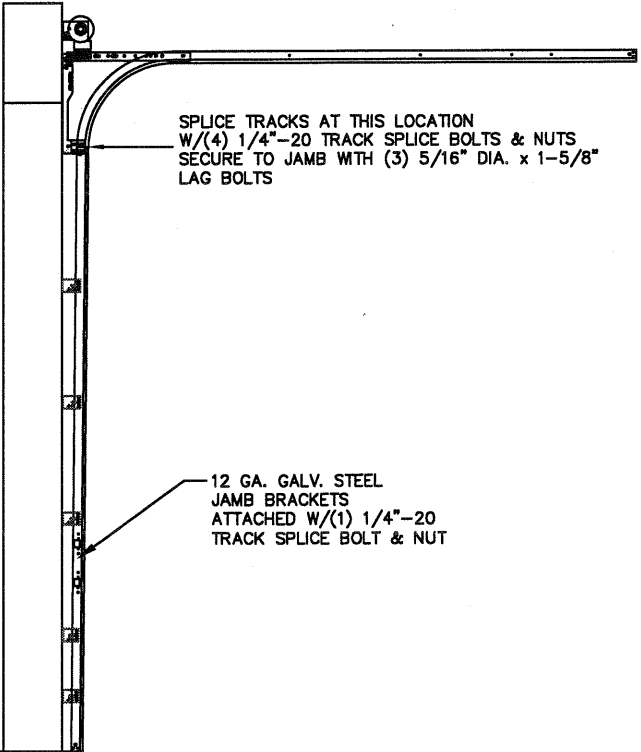
Section Width (ft)	Panel Type	Max Design Loads Allowed	
		Positive (PSF)	Negative (PSF)
16' 2	Short	41.1	45.3
16' 2	Long	41.1	45.3
16' 2	Oak Summit	41.1	45.3
16' 4	Short	40.7	44.8
16' 4	Long	40.7	44.8
16' 4	Oak Summit	40.7	44.8
16' 6	Short	40.3	44.4
16' 6	Long	40.3	44.4
16' 6	Oak Summit	40.2	44.3
16' 8	Short	39.9	43.9
16' 8	Long	39.9	43.9
16' 8	Oak Summit	39.8	43.8
16' 10	Short	39.5	43.5
16' 10	Long	39.5	43.5
16' 10	Oak Summit	39.3	43.3
17' 0	Short	39.1	43.0
17' 0	Long	39.1	43.0
17' 0	Oak Summit	39.1	43.0
17' 2	Short	38.7	42.6
17' 2	Long	38.7	42.6
17' 2	Oak Summit	38.7	42.6
17' 4	Short	38.4	42.2
17' 4	Long	38.4	42.2
17' 4	Oak Summit	38.3	42.1
17' 6	Short	38.0	41.8
17' 6	Long	38.0	41.8
17' 6	Oak Summit	37.9	41.7
17' 8	Short	37.6	41.4
17' 8	Long	37.6	41.4
17' 8	Oak Summit	37.6	41.4
17' 10	Short	37.3	41.0
17' 10	Long	37.3	41.0
17' 10	Oak Summit	37.2	41.0
18' 0	Short	37.0	40.7
18' 0	Long	37.0	40.7
18' 0	Oak Summit	36.9	40.6

TABLE 4

Section Width (ft)	Panel Type	Center Stile Locations (Measured from Left Edge)		
		1st (in)	3rd (in)	5th (in)
16' 2	Short	50.27	97.00	143.73
16' 2	Long	51.17	97.00	142.83
16' 2	Oak Summit	48.75	97.00	145.25
16' 4	Short	51.27	98.00	144.73
16' 4	Long	52.17	98.00	143.83
16' 4	Oak Summit	49.08	98.00	146.92
16' 6	Short	52.27	99.00	145.73
16' 6	Long	51.34	99.00	146.66
16' 6	Oak Summit	49.42	99.00	148.59
16' 8	Short	51.34	100.00	148.66
16' 8	Long	52.20	100.00	147.80
16' 8	Oak Summit	49.92	100.00	150.09
16' 10	Short	51.50	101.00	150.50
16' 10	Long	53.20	101.00	148.80
16' 10	Oak Summit	50.15	101.00	151.59
17' 0	Short	53.34	102.00	150.66
17' 0	Long	54.20	102.00	149.80
17' 0	Oak Summit	50.92	102.00	153.09
17' 2	Short	53.00	103.00	153.00
17' 2	Long	55.20	103.00	150.80
17' 2	Oak Summit	51.42	103.00	154.59
17' 4	Short	54.00	104.00	154.00
17' 4	Long	56.20	104.00	151.80
17' 4	Oak Summit	51.92	104.00	156.09
17' 6	Short	55.00	105.00	155.00
17' 6	Long	57.20	105.00	152.80
17' 6	Oak Summit	52.42	105.00	157.59
17' 8	Short	54.80	106.00	157.20
17' 8	Long	55.80	106.00	156.20
17' 8	Oak Summit	52.92	106.00	159.09
17' 10	Short	55.80	107.00	158.20
17' 10	Long	56.25	107.00	157.75
17' 10	Oak Summit	53.42	107.00	160.59
18' 0	Short	57.25	108.00	158.75
18' 0	Long	57.80	108.00	158.20
18' 0	Oak Summit	53.92	108.00	162.09



TRACK CONFIGURATION FOR 6'6" UP TO 14' TALL DOORS (SEE TABLE 2)
N.T.S.



AVAILABLE TRACK CONFIGURATIONS
N.T.S.

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
18' WIDTH
14' HEIGHT
(DOOR HEIGHT SUBJECT
TO WEIGHT LIMITATIONS)

DESIGN LOADS
+37.0 PSF
-40.7 PSF

TEST LOADS
(1.5 x DESIGN LOADS)
+55.5 PSF
-61.1 PSF

LARGE MISSILE
IMPACT
RESISTANCE

Thomas L. Shelmerdine, PE (FL PE #0048579)
Structural Solutions, PA (FL Firm #29412)

FL

dba Structural Solutions of North Carolina, Inc.
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Amarr

MODEL #1200 HERITAGE 3000
MODEL #1200 OAK SUMMIT 3000
SHORT, LONG, FLUSH & OAK SUMMIT PANELS

SIZE	DRAWN BY	RLR	DATE	06/12/14	DRAWING NUMBER
B	CHECKED BY		DATE		IRC-1218-155-26-1

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

SHEET 3 OF 3