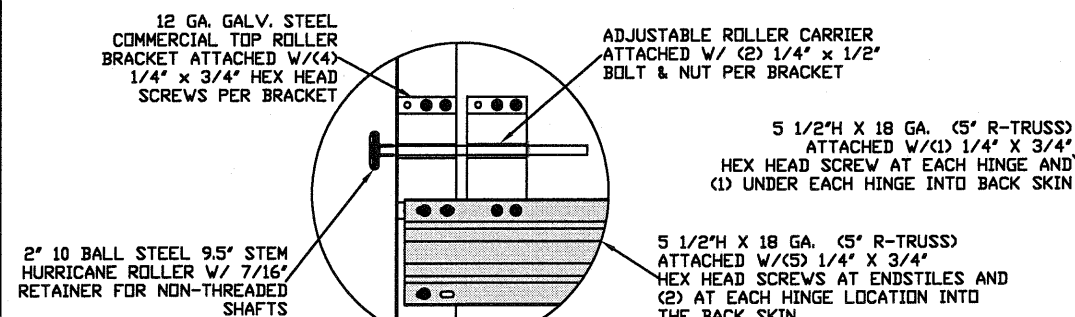
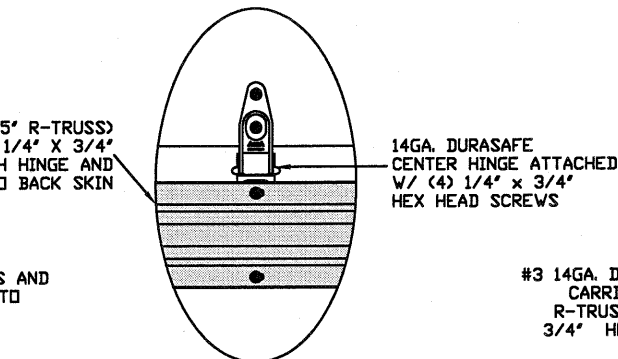
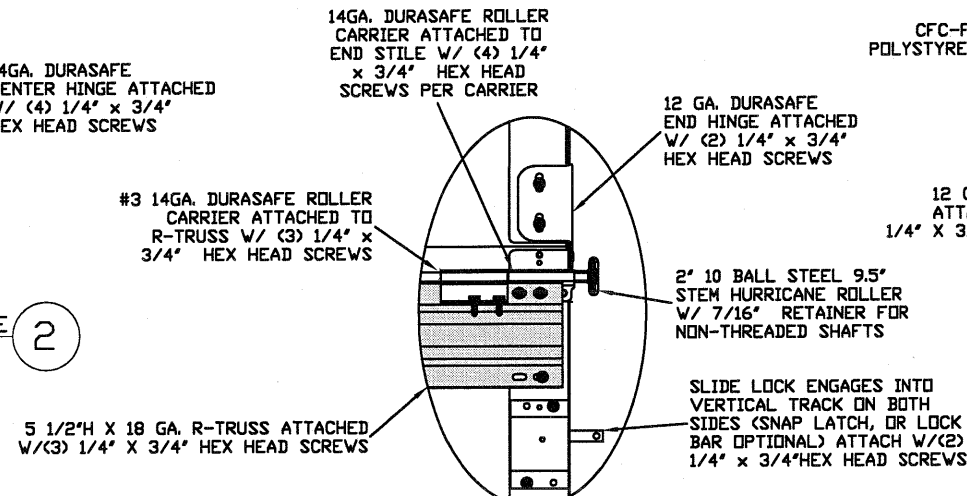




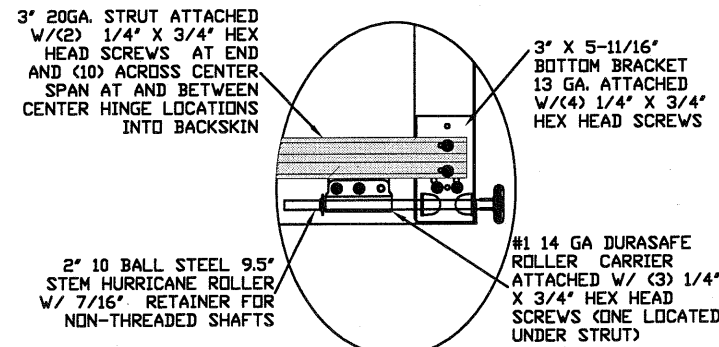
TYPICAL TOP FIXTURES
N.T.S.



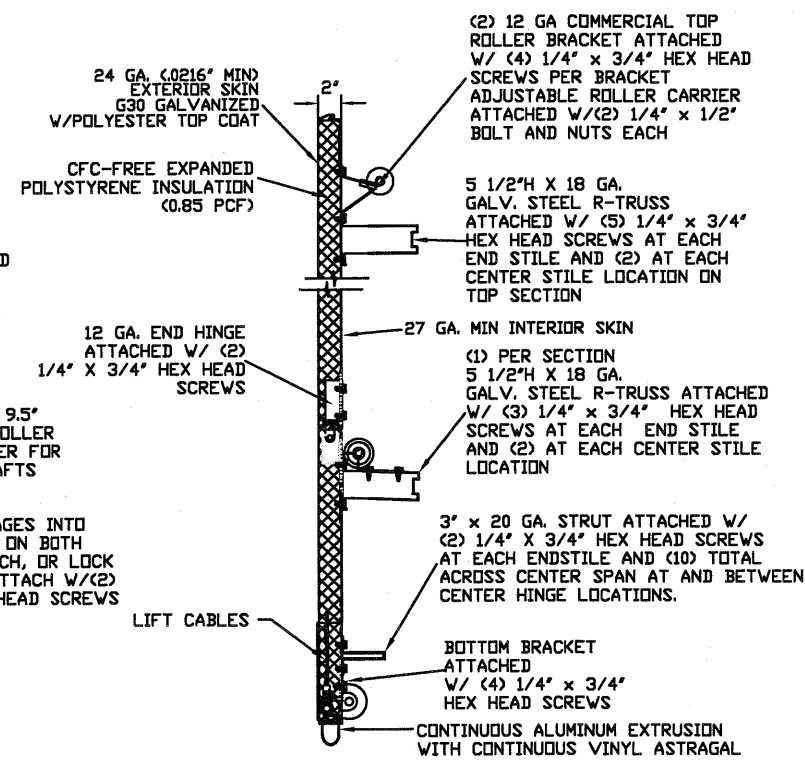
TYPICAL DURASAFE CENTER HINGE
N.T.S.



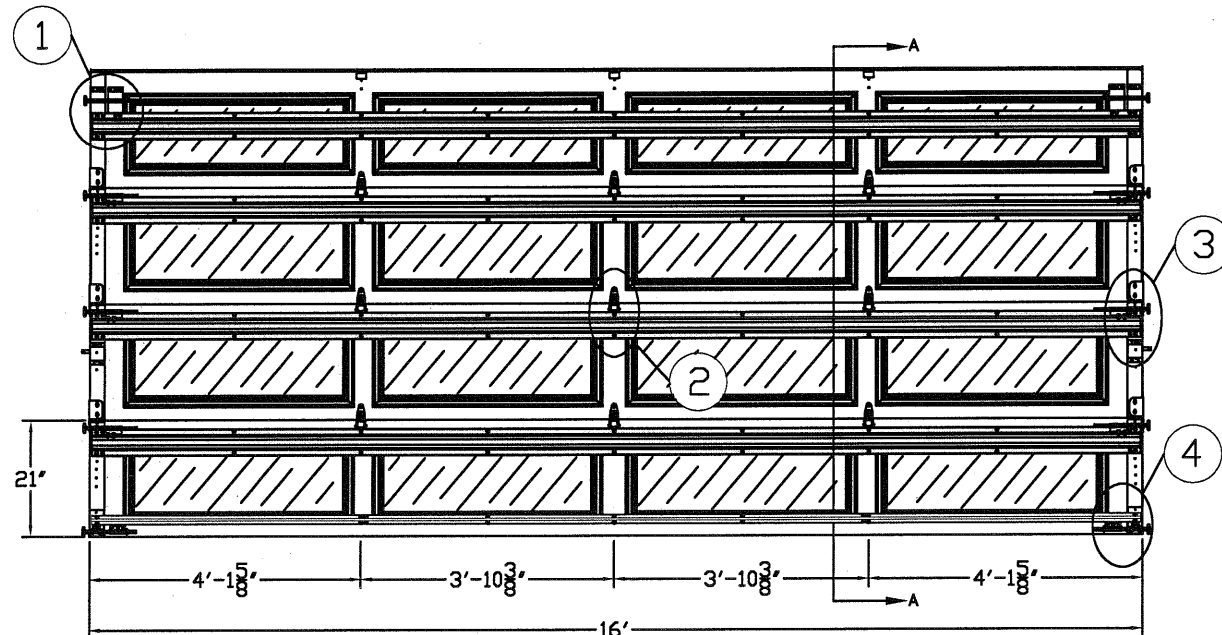
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N.T.S.



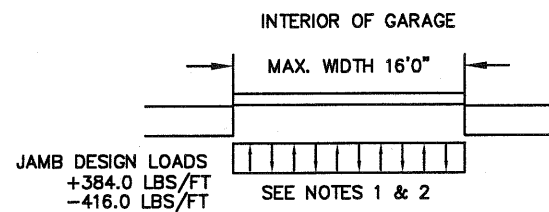
TYPICAL BOTTOM BRACKET
N.T.S.



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



INSIDE ELEVATION
N.T.S.

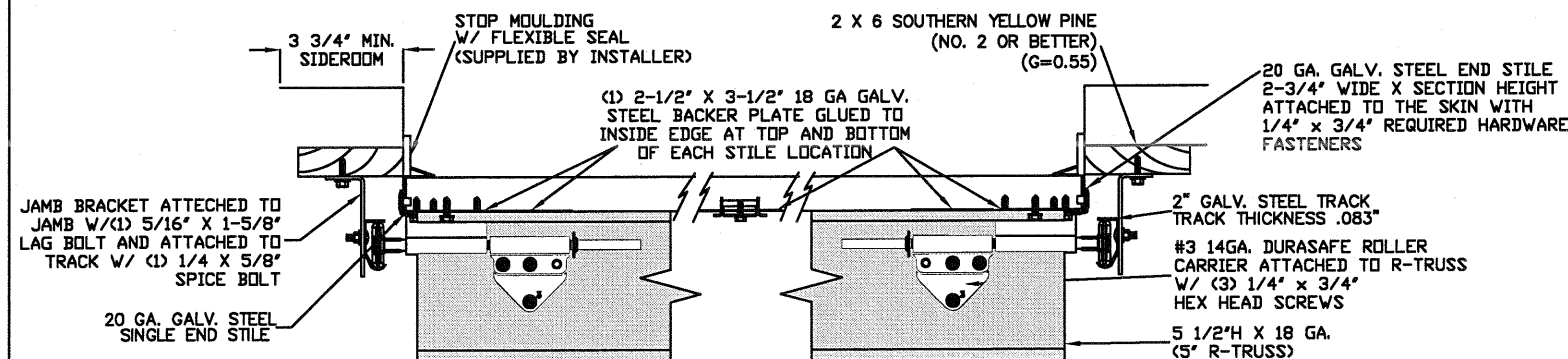


SPECIFICATIONS AND NOTES

1. 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.
2. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +384.0 LBS/FT & -416.0 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 24 GA. (.0216) MIN. EXTERIOR SKIN ROLLED FORMED, W/ BAKED ON POLYESTER FINISH
5. DOORS UP TO 7'0\"
6. DOORS OVER (4) SECTIONS REFER TO TABLES 1 & 2
7. 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, AND TAS 201, 201, 203. 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)	224	204	194	185	177
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'



TRACK MOUNTING DETAIL
N.T.S.

LARGE MISSILE IMPACT RESISTANT

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
16' WIDTH
14' HEIGHT

DESIGN LOADS
+48.0 PSF
-52.0 PSF

TEST LOADS
(1.5 x DESIGN LOADS)
+72.0 PSF
-78.0 PSF

LARGE MISSILE
IMPACT
RESISTANCE

THOMAS L. SHELDERDINE
LICENSE
No. 48579
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
FL

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

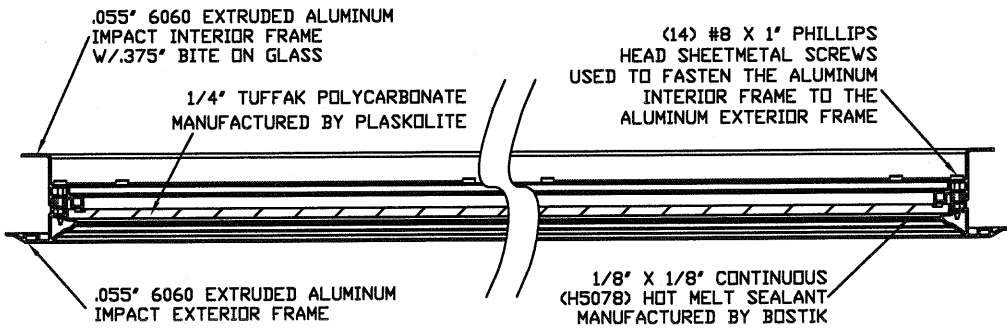
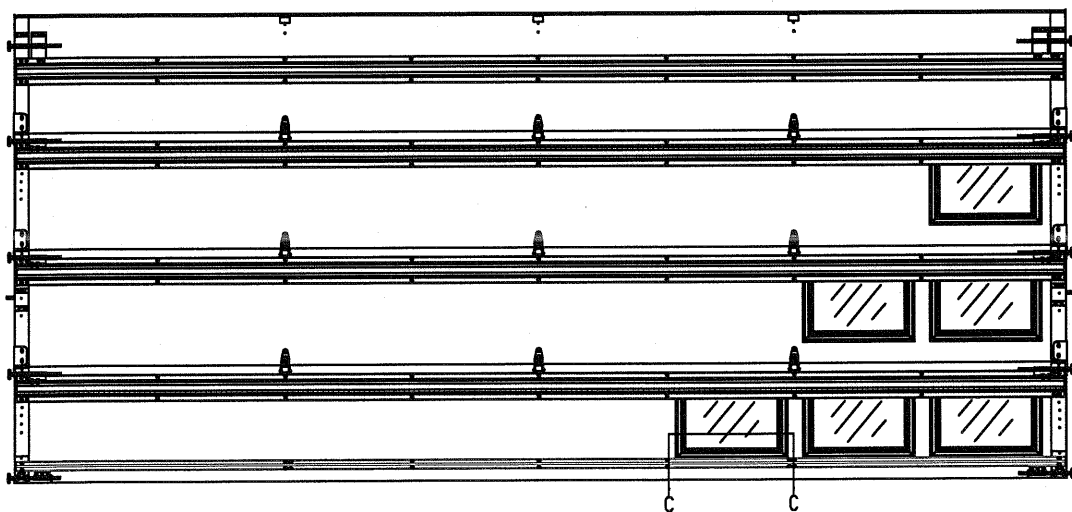
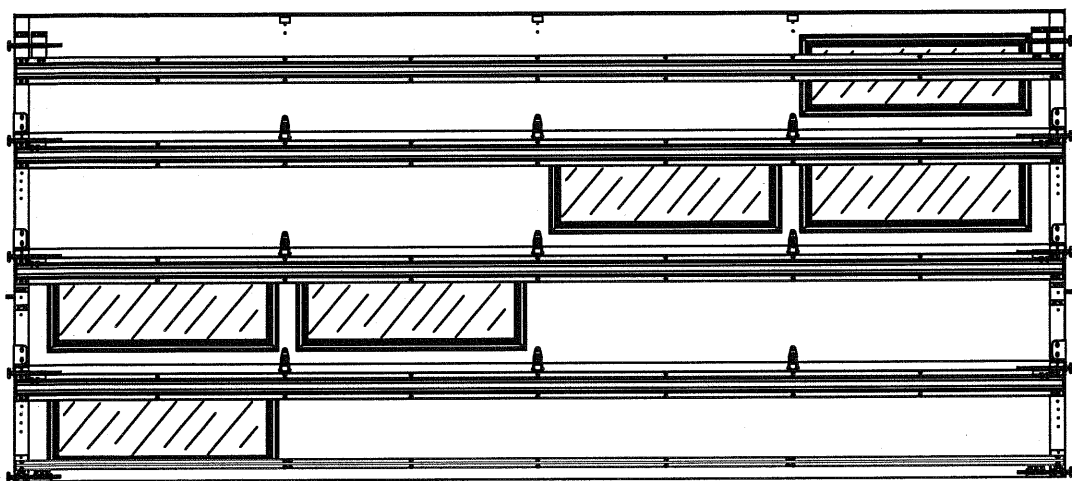
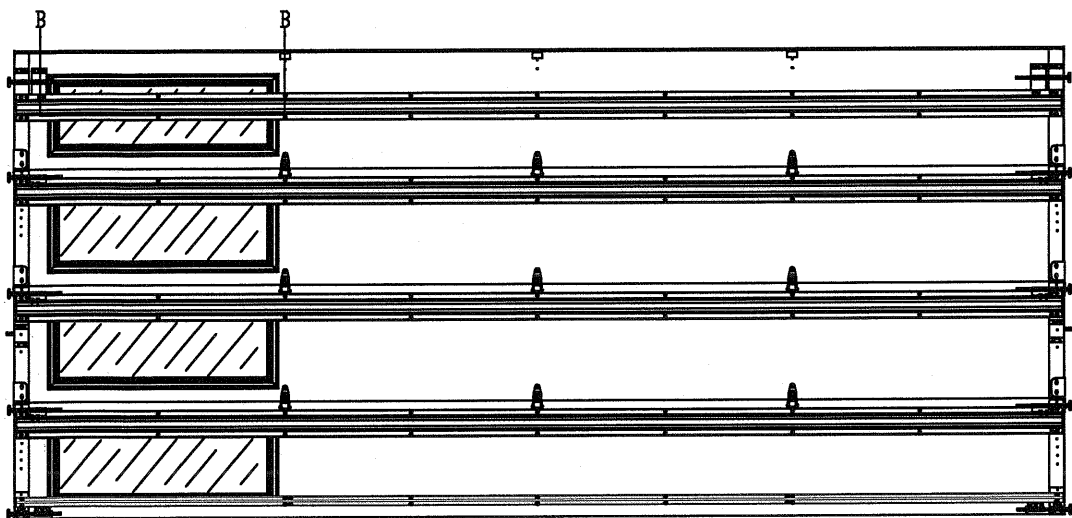
dba Structural Solutions of North Carolina, Inc.
5921-G W. Friendly Ave., Greensboro, NC 27410



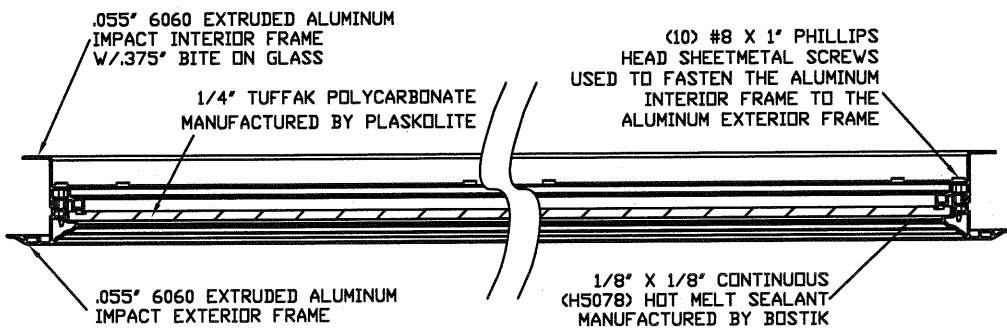
MODEL #1200 HERITAGE 3000
MODEL #1200 OAK SUMMIT 3000
SHORT, LONG, FLUSH & OAK SUMMIT PANELS

SIZE	DRAWN BY	RLR	DATE	8/2/18	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	8/2/18	IRC-1216-175-26-F
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105					SHEET 1 OF 3

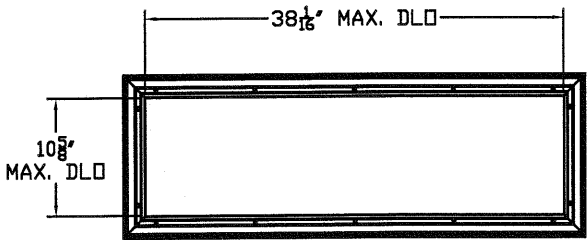
EXAMPLES OF OPTIONAL SHORT AND LONG PANEL GLAZING LAYOUTS GLAZING AVAILABLE IN ANY COMBINATION



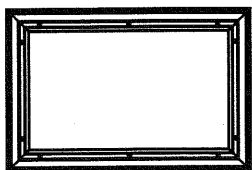
SECTION B-B IMPACT WINDOW DETAIL
N.T.S.



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



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



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

WOOD JAMB ATTACHMENT TO STRUCTURE

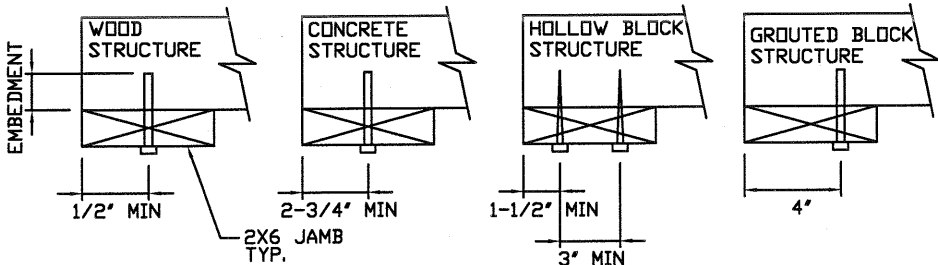
2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 12" O.C. (1 1/2" EMBEDMENT)

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 10" O.C. (1 1/4" EMBEDMENT)
ITW/RAMSET REDHEAD (TRU-BOLT) 3/8" X 4" STARTING 6" FROM ENDS THEN 20" O.C. (2 1/2" EMBEDMENT)

2 X 6 VERTICAL JAMB ATTACHMENT TO HOLLOW C-90 BLOCK (1900 PSI MIN)
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 12" 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
16' WIDTH
14' HEIGHT

DESIGN LOADS
+48.0 PSF
-52.0 PSF

TEST LOADS
(1.5 x DESIGN LOADS)
+72.0 PSF
-78.0 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

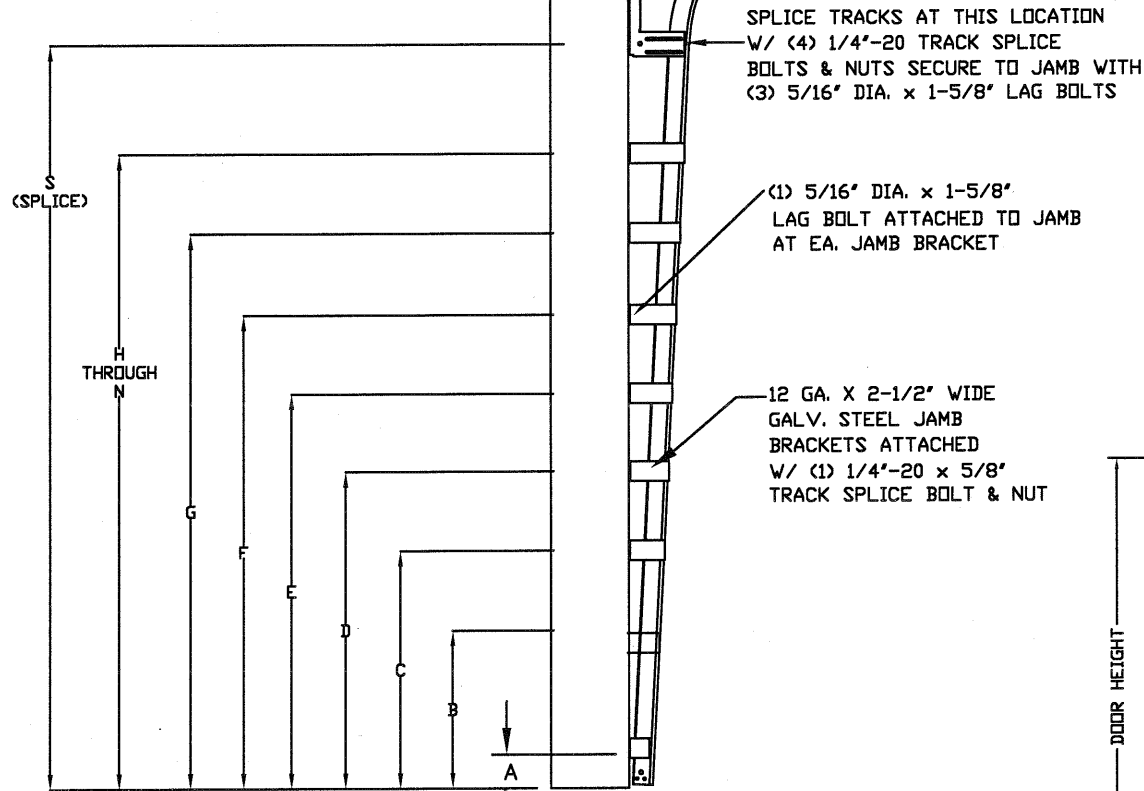
dba Structural Solutions of North Carolina, Inc.
5921-G W. Friendly Ave., Greensboro, NC 27410

Amarr

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

SIZE	DRAWN BY	RLR	DATE	8/2/18	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	8/2/18	IRC-1216-175-26-F
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105					SHEET 2 OF 3

13 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

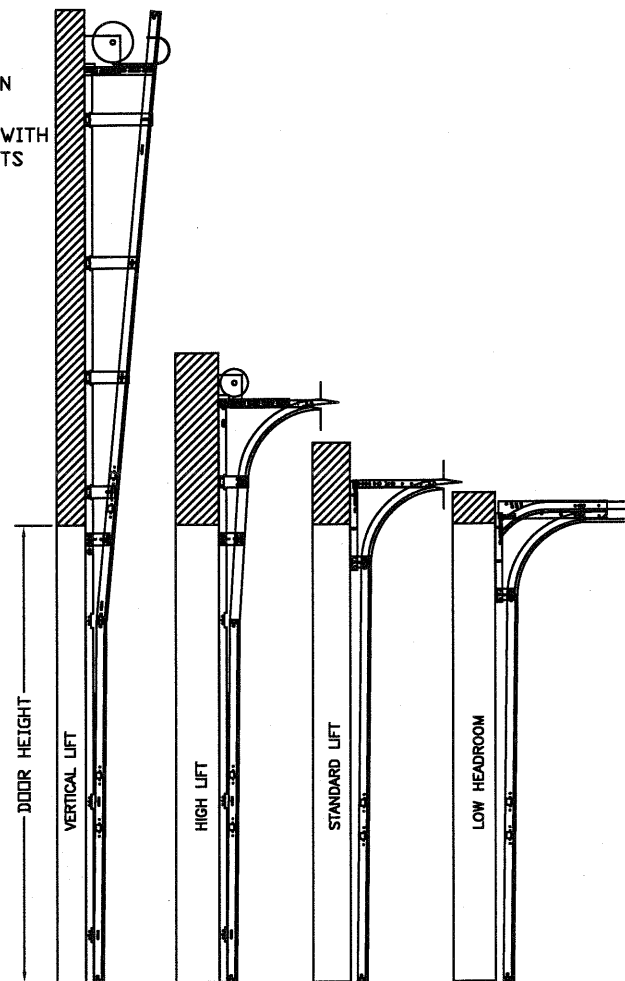


STANDARD TRACK CONFIGURATION FOR 6'6" UP TO 14' TALL DOORS
N.T.S.

TABLE 1

DOOR HEIGHT	TRACK ATTACHMENT														SPLICE
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	
6' 6"	3"	14"	27"	38"	46"	56"	64"								70"
7'	3"	14"	27"	38"	46"	56"	68"								76"
7' 6"	3"	14"	27"	38"	46"	56"	68"	78"							82"
8'	3"	14"	27"	38"	46"	56"	68"	78"							88"
8' 6"	3"	14"	27"	38"	46"	56"	68"	78"	88"						94"
9'	3"	14"	27"	38"	46"	56"	68"	78"	88"						100"
9' 6"	3"	14"	27"	38"	46"	56"	68"	78"	88"	98"					106"
10'	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"					112"
10' 6"	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	110"				118"
11'	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	110"				124"
11' 6"	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	110"	120"			130"
12'	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	110"	122"			136"
12' 6"	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	109"	122"	132"		142"
13'	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	114"	122"	134"		148"
13' 6"	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	109"	122"	134"	144"	154"
14'	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	114"	122"	134"	146"	160"

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



AVAILABLE TRACK CONFIGURATIONS
N.T.S.

TABLE 2

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"	18"	21"
11' 6"	21"	21"	21"	18"	18"	18"	18"	21"
11' 0"	21"	18"	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 3

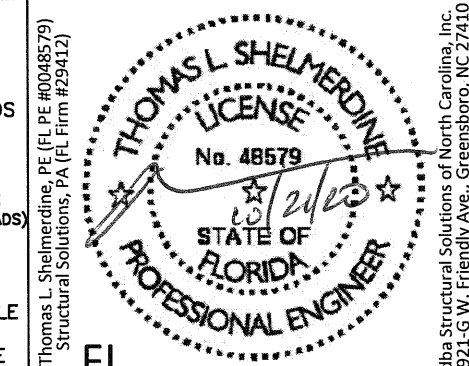
Section Width (ft)	Panel Type	Center Stile Locations (Measured from Left Edge)				Max Design Loads Allowed	
		1st (in)	2st (in)	3rd (in)	4th (in)	Positive (PSF)	Negative (PSF)
09' 2"	Short	55.00				41.7	45.2
09' 2"	Long	55.00				41.7	45.2
09' 2"	Oak Summit	55.00				41.7	45.2
09' 4"	Short	56.00				40.9	44.3
09' 4"	Long	56.00				40.9	44.3
09' 4"	Oak Summit	56.00				40.9	44.3
09' 6"	Short	57.00				40.2	43.6
09' 6"	Long	57.00				40.2	43.6
09' 6"	Oak Summit	57.00				40.2	43.6
09' 8"	Short	58.00				39.5	42.8
09' 8"	Long	58.00				39.5	42.8
09' 8"	Oak Summit	58.00				39.5	42.8
09' 10"	Short	59.00				38.9	42.1
09' 10"	Long	59.00				38.9	42.1
09' 10"	Oak Summit	59.00				38.9	42.1
10' 0"	Short	48.41	71.59			64.0	69.4
10' 0"	Long	60.00				38.2	41.4
10' 0"	Oak Summit	60.00				38.2	41.4
10' 2"	Short	49.32	72.68			63.1	68.3
10' 2"	Long	61.00				37.6	40.7
10' 2"	Oak Summit	61.00				37.6	40.7
10' 4"	Short	50.23	73.68			62.2	67.4
10' 4"	Long	62.00				37.0	40.1
10' 4"	Oak Summit	62.00				37.0	40.1
10' 6"	Short	50.84	75.17			61.0	66.1
10' 6"	Long	63.00				36.4	39.4
10' 6"	Oak Summit	63.00				36.4	39.4
10' 8"	Short	51.84	76.17			60.2	65.2
10' 8"	Long	64.00				35.8	38.8
10' 8"	Oak Summit	64.00				35.8	38.8
10' 10"	Short	52.50	77.50			59.2	64.1
11' 0"	Short	53.50	78.50			58.4	63.3
11' 0"	Long	44.41	87.59			52.3	56.7
11' 2"	Short	54.20	79.80			57.5	62.2
11' 2"	Long	45.30	88.70			51.7	56.0
11' 4"	Short	55.20	80.80			56.7	61.5
11' 4"	Long	46.30	89.70			51.1	55.4
11' 6"	Short	56.20	81.80			56.1	60.7
11' 6"	Long	47.30	90.70			50.6	54.8
11' 8"	Short	57.20	82.80			55.4	60.0
11' 8"	Long	47.63	92.38			49.6	53.8
11' 10"	Short	47.81	94.19			48.7	52.7
11' 10"	Long	48.30	93.70			48.9	53.0
12' 0"	Short	48.81	95.19			48.2	52.2
12' 0"	Long	49.63	94.38			48.6	52.6
12' 0"	Oak Summit	48.31	95.69			47.9	51.9
12' 2"	Short	49.64	96.36			47.6	51.5
12' 2"	Long	50.08	95.92			47.8	51.8
12' 2"	Oak Summit	49.06	96.94			47.3	51.2
12' 4"	Short	50.64	97.36			47.1	51.0
12' 4"	Long	51.08	96.92			47.3	51.3
12' 4"	Oak Summit	49.81	98.19			46.7	50.6
12' 6"	Short	50.67	99.33			46.2	50.0
12' 6"	Long	51.17	98.83			46.4	50.3
12' 6"	Oak Summit	50.56	99.44			46.1	50.0
12' 8"	Short	51.67	100.33			45.7	49.5
12' 8"	Long	52.10	99.90			45.9	49.7
12' 8"	Oak Summit	51.31	100.69			45.5	49.3
12' 10"	Short	52.25	101.75			45.1	48.8
12' 10"	Long	53.10	100.90			45.4	49.2
12' 10"	Oak Summit	52.06	101.94			45.0	48.7
13' 0"	Short	53.00	103.00			44.5	48.2
13' 0"	Long	54.10	101.90			45.0	48.7
13' 0"	Oak Summit	52.81	103.19			44.4	48.1
13' 2"	Short	54.00	104.00			44.1	47.8
13' 2"	Long	55.10	102.90			44.6	48.3
13' 2"	Oak Summit	53.56	104.44			43.9	47.6
13' 4"	Short	54.40	105.60			43.4	47.0
13' 4"	Long	54.90	105.10			43.6	47.3
13' 4"	Oak Summit	54.31	105.69			43.4	47.0
13' 6"	Short	55.40	106.60			43.0	46.6
13' 6"	Long	55.90	106.10			43.2	46.8
13' 6"	Oak Summit	55.06	106.94			42.9	46.4

TABLE 3

Section Width (ft)	Panel Type	Center Stile Locations (Measured from Left Edge)				Max Design Loads Allowed	
		1st (in)	2st (in)	3rd (in)	4th (in)	Positive (PSF)	Negative (PSF)
13' 8"	Short	56.40	107.60			42.6	46.2
13' 8"	Long	56.63	107.38			42.7	46.3
13' 8"	Oak Summit	55.81	108.19			42.4	45.9
13' 10"	Short	57.16	82.94	108.71		55.2	59.8
13' 10"	Long	57.17	108.83			42.1	45.6
13' 10"	Oak Summit	56.56	109.44			41.9	45.4
14' 0"	Short	57.76	83.94	110.11		54.6	59.1
14' 0"	Long	58.63	109.38			41.9	45.4
14' 0"	Oak Summit	57.31	110.69			41.4	44.9
14' 2"	Short	58.85	84.94	111.41		53.9	58.4
14' 2"	Long	59.17	110.83			41.4	44.8
14' 2"	Oak Summit	58.06	111.94			41.0	44.4
14' 4"	Short	59.16	85.94	112.71		53.3	57.8
14' 4"	Long	60.17	111.83			41.0	44.4
14' 4"	Oak Summit	58.81	113.19			40.5	43.9
14' 6"	Short	59.86	86.94	114.01		52.7	57.1
14' 6"	Long	61.17	112.83			40.6	44.0
14' 6"	Oak Summit	59.56	114.44			40.1	43.4
14' 8"	Short	60.56	87.94	115.31		52.1	56.4
14' 8"	Long	44.81	131.19			34.9	37.9
14' 10"	Short	61.26	88.94	116.61		51.5	55.8
14' 10"	Long	45.60	89.00	132.40		51.5	55.8
15' 0"	Short	61.94	89.94	117.94		50.9	55.2
15' 0"	Long	46.60	90.00	133.40		50.9	55.2
15' 2"	Short	62.66	90.94	119.21		50.4	54.6
15' 2"	Long	47.60	91.00	134.40		50.4	54.6
15' 4"	Short	53.60	79.20	104.80	130.40	49.8	54.0
15' 4"	Long	47.25	92.00	136.75		49.8	54.0
15' 6"	Short	46.62	93.00	139.38		49.3	53.4
15' 6"	Long	47.60	93.00	138.40		49.3	53.4
15' 6"	Oak Summit	47.42	93.00	138.58		49.3	53.4
15' 8"	Short	47.62	94.00	140.38		48.8	52.8
15' 8"	Long	48.60	94.00	139.40		48.8	52.8
15' 8"	Oak Summit	48.02	94.00	139.98		48.8	52.8
15' 10"	Short	48.62	95.00	141.38		48.3	52.3
15' 10"	Long	49.17	95.00	140.83		48.3	52.3
15' 10"	Oak Summit	48.62	95.00	141.38		48.3	52.3
16' 0"	Short	49.62	96.00	142.38		48.0	52.0
16' 0"	Long	50.60	96.00	141.40		48.0	52.0
16' 0"	Oak Summit	48.42	96.00	143.58		48.0	52.0

REV	DESCRIPTION OF REVISIONS	DATE	BY
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MAX SIZE
16' WIDTH
14' HEIGHT
DESIGN LOADS
+48.0 PSF
-52.0 PSF
TEST LOADS
(1.5 x DESIGN LOADS)
+72.0 PSF
-78.0 PSF
LARGE MISSILE
IMPACT
RESISTANCE



Amarr

MODEL #1200 HERITAGE 3000
MODEL #1200 OAK SUMMIT 3000