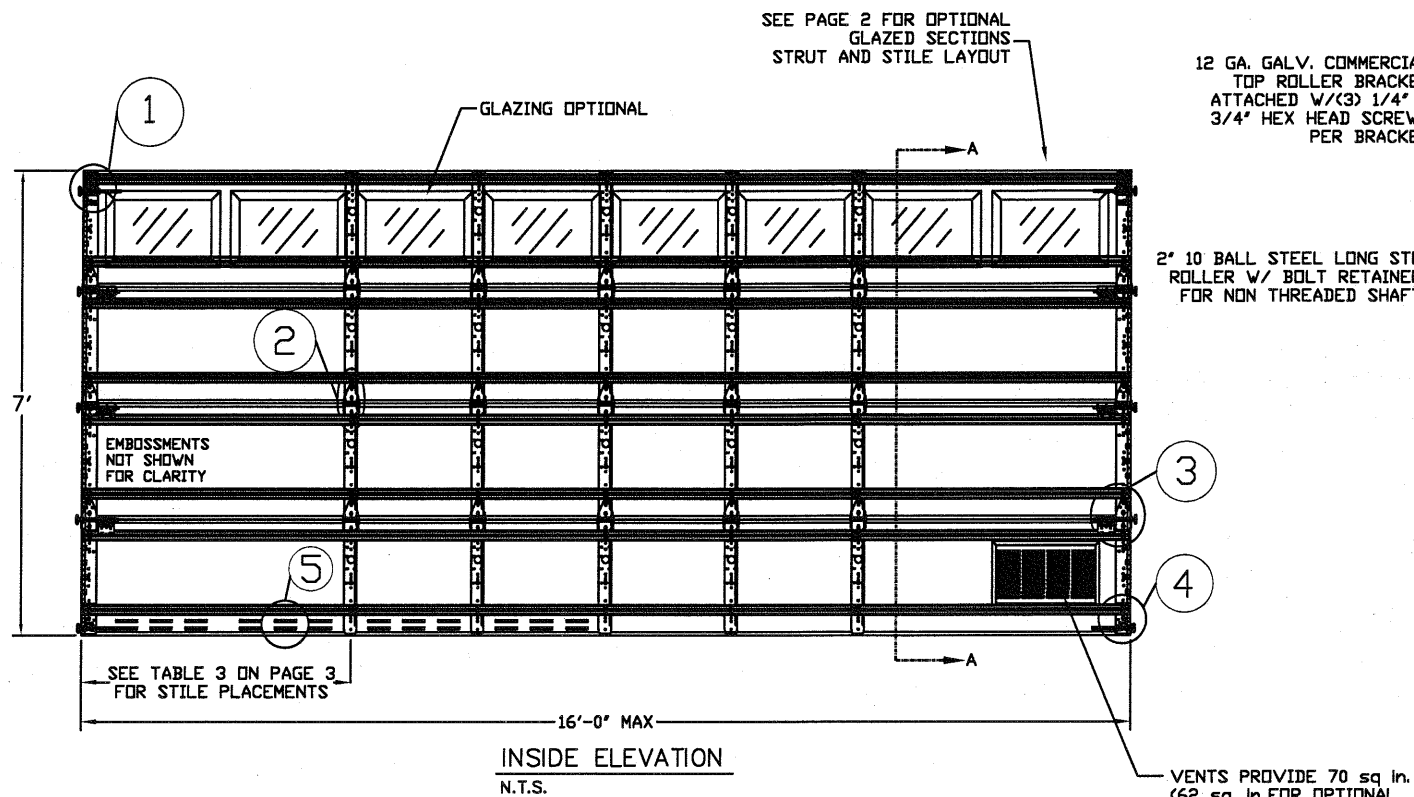




12 GA. GALV. COMMERCIAL TOP ROLLER BRACKET ATTACHED W/ (3) 1/4" x 3/4" HEX HEAD SCREWS PER BRACKET

2" 10 BALL STEEL LONG STEM ROLLER W/ BOLT RETAINERS FOR NON THREADED SHAFTS

3" 20GA. STRUT ATTACHED W/ (2) 1/4" x 3/4" HEX HEAD SCREWS AT EACH END STILE AND CENTER STILE LOCATION

ADJUSTABLE ROLLER CARRIER ATTACHED W/ (2) 1/4" x 1/2" BOLT & NUT PER BRACKET

TYPICAL TOP FIXTURES
N.T.S.

3" 20GA. STRUTS ATTACHED W/ (2) 1/4" x 3/4" HEX HEAD SCREWS AT EACH CENTER STILE

14GA. CENTER HINGE ATTACHED W/ (5) 1/4" x 3/4" HEX HEAD SCREWS

TYPICAL CENTER HINGE
N.T.S.

3" 20GA. STRUT ATTACHED W/ (2) 1/4" x 3/4" HEX HEAD SCREWS

14GA. ADJUSTABLE ROLLER CARRIER ATTACHED TO STRUT W/ (2) 1/4" x 3/4" HEX HEAD SCREWS

3" 20GA. STRUTS ATTACHED W/ (2) 1/4" x 3/4" HEX HEAD SCREWS

14 GA. END HINGE ATTACHED W/ (5) 1/4" x 3/4" HEX HEAD SCREWS

3" 20 GA STRUT ATTACHED W/ (2) 1/4" x 3/4" HEX HEAD SCREWS AT EACH END AND CENTER STILE LOCATION

2" 10 BALL STEEL LONG STEM ROLLER W/ BOLT RETAINERS FOR NON-THREADED SHAFTS

TYPICAL END HINGE
N.T.S.

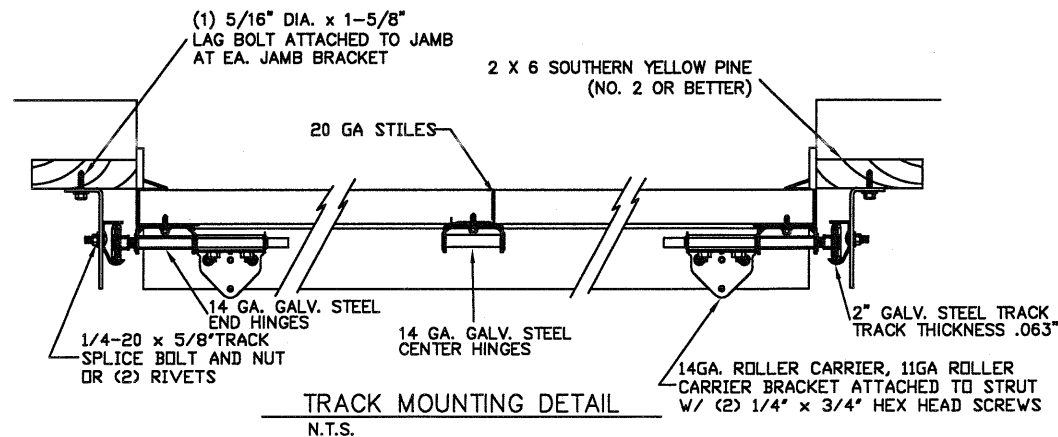
TWO (2) ROWS OF THREE (3) VENTS EQUALS 15 SQ. INCHES

13 GA. BOTTOM BRACKET ASSEMBLY ATTACHED W/ (5) 1/4" x 3/4" HEX HEAD SCREWS

2" 10 BALL STEEL LONG STEM ROLLER W/ BOLT RETAINERS FOR NON THREADED SHAFTS

TYPICAL BOTTOM BRACKET
N.T.S.

OPTIONAL VENT DETAIL
N.T.S.



THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E330 AND ANSI/DASMA 108. 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)	168	152	145	138	133
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

25 GA SKIN (M625 & M675)

12 GA COMMERCIAL TOP FIXTURE ATTACHED W/ (3) 1/4" x 3/4" HEX HEAD SCREWS ADJUSTABLE SLIDE BRACKET ATTACHED W/ (2) 1/4" x 1/2" BOLT AND NUTS

(2) 3" 20 GA STRUTS ON EACH SECTION ATTACHED W/ (2) 1/4" x 3/4" HEX HEAD SCREWS AT EACH END STILE, AND EACH CENTER STILE

14GA. ADJUSTABLE ROLLER CARRIER ATTACHED TO STRUT W/ (2) 1/4" x 3/4" HEX HEAD SCREWS

BOTTOM BRACKET ATTACHED W/ (5) 1/4" x 3/4" HEX HEAD SCREWS

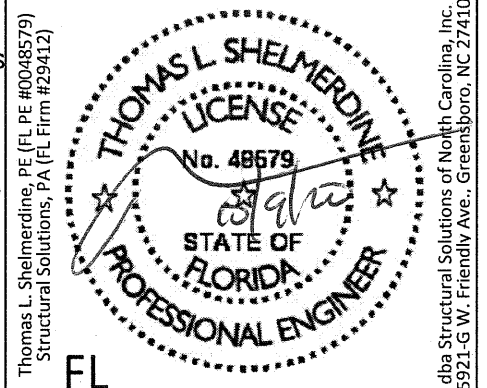
SECTION A-A (SIDE VIEW)
N.T.S.

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
16' x 14'

DESIGN LOADS
+25.6 PSF
-29.1 PSF

TEST LOADS
(1.5 x DESIGN LOADS)
+38.4 PSF
-43.6 PSF



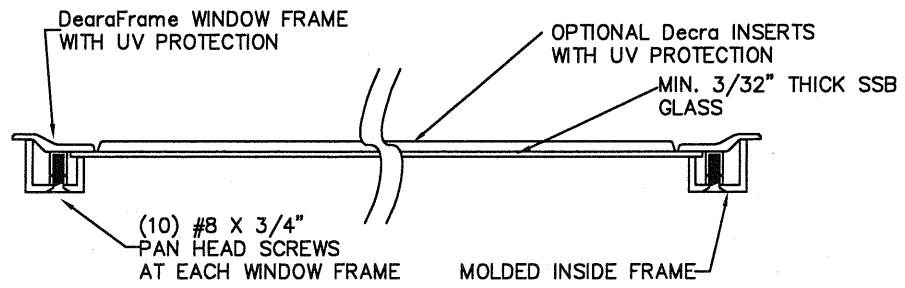
Amarr

MODEL #625 AMARR LINCOLN 1000, 2000
MODEL #675 AMARR HILLCREST 1000, 2000

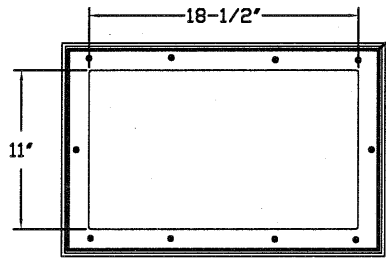
SIZE	DRAWN BY DRC	DATE 02/21/20	DRAWING NUMBER
B	CHECKED BY RLR	DATE 03/2/20	IRC-6216-130-15
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			SHEET 1 OF 3

GLAZING OPTION CROSS SECTION

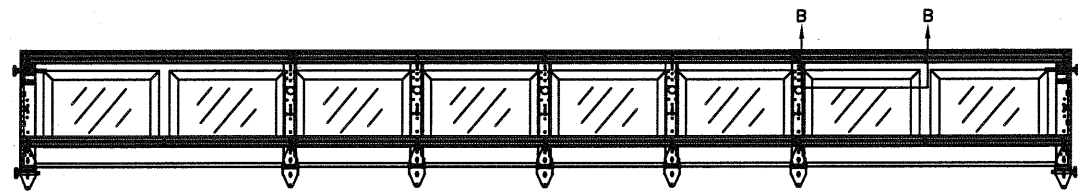
GLAZING NOT AVAILABLE IN WIND-BORNE DEBRIS REGION



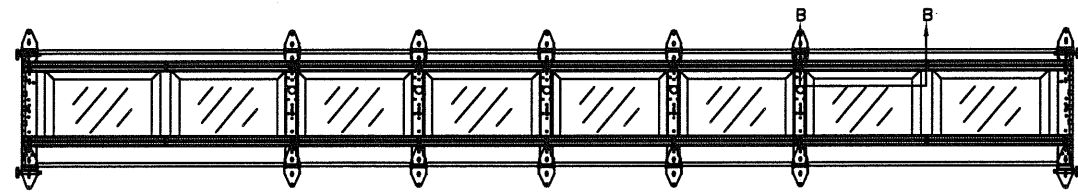
SECTION B-B RESIDENTIAL LONG PANEL WINDOW DETAIL
N.T.S.



SHORT PANEL GLAZING FASTENER DETAIL
N.T.S.



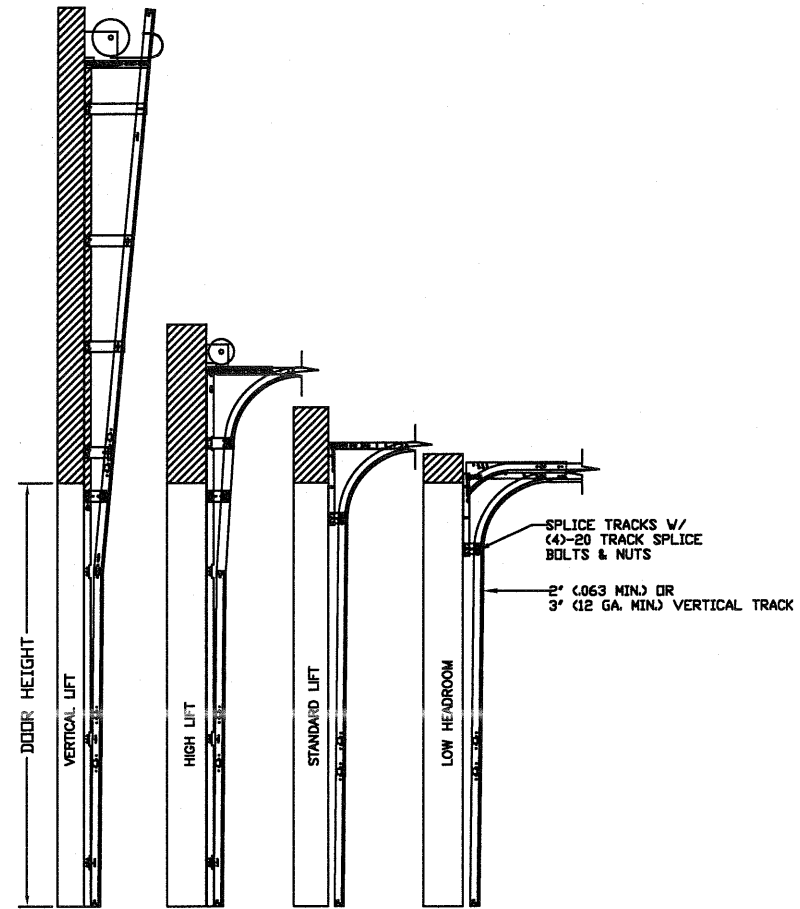
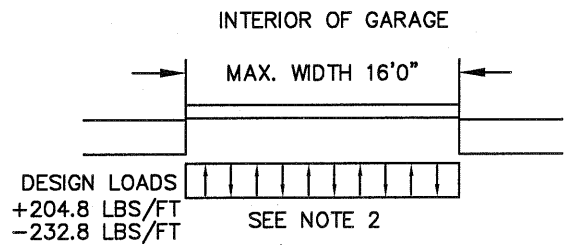
OPTIONAL SHORT PANEL TOP GLAZED SECTION (STRUT AND STILE LAYOUT)



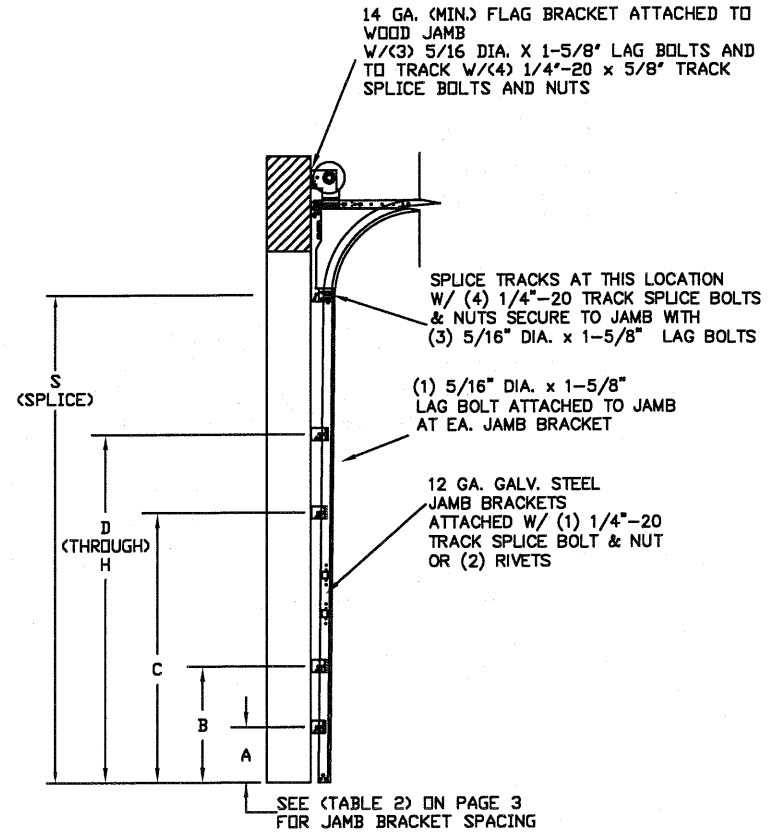
OPTIONAL SHORT PANEL INTERMEDIATE GLAZED SECTION (STRUT AND STILE LAYOUT)

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: +204.8 LBS/FT & -232.8 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 25 GA. (.019) MIN. ROLLED FORMED LIGHT COMMERCIAL QUALITY
5. DOORS UP TO 14'0" HIGH HAVE (2) 3" 20GA STRUTS ON EACH SECTION (SEE TABLE 4 FOR STRUT SCHEDULE)
6. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.
7. REFER TO TABLES ON PAGE 3 FOR ADDITIONAL DOOR WIDTHS AND THEIR DESIGN PRESSURES



AVAILABLE TRACK CONFIGURATIONS
N.T.S.



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

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
16' x 14'

DESIGN LOADS
+25.6 PSF
-29.1 PSF

TEST LOADS
(1.5 x DESIGN LOADS)
+38.4 PSF
-43.6 PSF

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 #625 AMARR LINCOLN 1000, 2000
MODEL #675 AMARR HILLCREST 1000, 2000

SIZE B	DRAWN BY DRC	DATE 02/21/20	DRAWING NUMBER IRC-6216-130-15
	CHECKED BY RLR	DATE 03/2/20	

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

HEIGHT	TRACK ATTACHMENT								SPlice
	A	B	C	D	E	F	G	H	
6' 0"	10"	18"	36"	54"					64"
6' 6"	10"	21"	38"	58"					70"
7' 0"	10"	21"	42"	63"					76"
7' 6"	10"	18"	36"	54"	72"				82"
8' 0"	10"	21"	39"	58"	75"				88"
8' 6"	10"	21"	42"	63"	81"				94"
9' 0"	10"	18"	36"	54"	72"	90"			100"
9' 6"	10"	21"	39"	57"	75"	93"			106"
10' 0"	10"	21"	42"	63"	81"	99"			112"
10' 6"	10"	21"	42"	63"	84"	105"			118"
11' 0"	10"	21"	39"	57"	75"	93"	111"		124"
11' 6"	10"	21"	42"	63"	81"	99"	117"		130"
12' 0"	10"	21"	42"	63"	84"	105"	123"		136"
12' 6"	10"	18"	36"	57"	75"	93"	111"	129"	142"
13' 0"	10"	21"	42"	63"	81"	99"	117"	135"	148"
13' 6"	10"	21"	42"	63"	84"	105"	123"	141"	154"
14' 0"	10"	21"	42"	63"	84"	105"	126"	147"	160"

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

TABLE 4

SECTION	STRUT SIZE
8TH	3"
	3"
7TH	3"
	3"
6TH	3"
	3"
5TH	3"
	3"
4TH	3"
	3"
3RD	3"
	3"
2ND	3"
	3"
BOTTOM	3"
	3"

WOOD JAMB ATTACHMENT TO STRUCTURE (OPTIONAL)

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

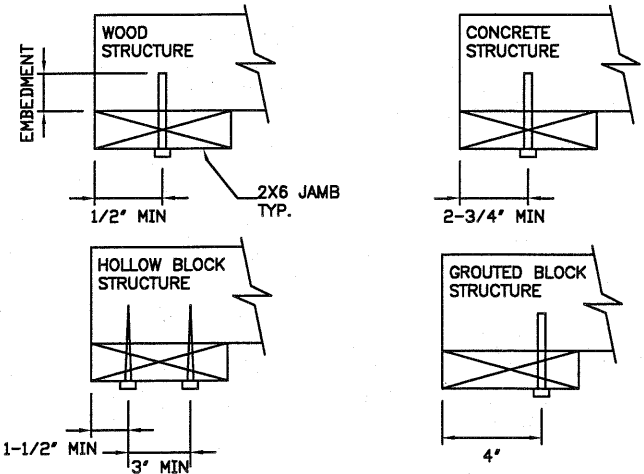


TABLE 3

Section	Panel Type	Center Stile Locations (Measured from Left Edge)							Max Design Loads Allowed	
		1st (in)	2st (in)	3rd (in)	4th (in)	5th (in)	6th (in)	7th (in)	Positive (PSF)	Negative (PSF)
10' 0"	Short	25.22	48.41	71.59	94.78				38.5	43.7
10' 0"	Long	30.00	60.00	90.00					31.0	35.3
10' 0"	Hillcrest	30.63	60.00	89.38					31.0	35.3
12' 0"	Short	25.62	48.81	72.00	95.19	118.38			34.1	38.8
12' 0"	Long	27.25	49.63	72.00	94.38	116.75			34.1	38.8
12' 0"	Hillcrest	24.63	48.31	72.00	95.69	119.38			34.1	38.8
12' 2"	Short	26.27	49.64	73.00	96.36	119.73			33.6	38.2
12' 2"	Long	27.17	50.08	73.00	95.92	118.83			33.6	38.2
12' 2"	Hillcrest	25.13	49.06	73.00	96.94	120.88			33.6	38.2
12' 4"	Short	27.27	50.64	74.00	97.36	120.73			33.2	37.7
12' 4"	Long	28.17	51.08	74.00	96.92	119.83			33.2	37.7
12' 4"	Hillcrest	25.63	49.81	74.00	98.19	122.38			33.2	37.7
12' 6"	Short	26.34	50.67	75.00	99.33	123.66			32.7	37.2
12' 6"	Long	27.34	51.17	75.00	98.83	122.66			32.7	37.2
12' 6"	Hillcrest	26.13	50.56	75.00	99.44	123.88			32.7	37.2
12' 8"	Short	27.34	51.67	76.00	100.33	124.66			32.3	36.7
12' 8"	Long	28.20	52.10	76.00	99.90	123.80			32.3	36.7
12' 8"	Hillcrest	26.63	51.31	76.00	100.69	125.38			32.3	36.7
12' 10"	Short	27.50	52.25	77.00	101.75	126.50			31.9	36.2
12' 10"	Long	29.20	53.10	77.00	100.90	124.80			31.9	36.2
12' 10"	Hillcrest	27.13	52.06	77.00	101.94	126.88			31.9	36.2
13' 0"	Short	28.00	53.00	78.00	103.00	128.00			31.5	35.8
13' 0"	Long	30.20	54.10	78.00	101.90	125.80			31.5	35.8
13' 0"	Hillcrest	27.63	52.81	78.00	103.19	128.38			31.5	35.8
13' 2"	Short	29.00	54.00	79.00	104.00	129.00			31.1	35.3
13' 2"	Long	31.20	55.10	79.00	102.90	126.80			31.1	35.3
13' 2"	Hillcrest	28.13	53.56	79.00	104.44	129.88			31.1	35.3
13' 4"	Short	28.80	54.40	80.00	105.60	131.20			30.7	34.9
13' 4"	Long	29.80	54.90	80.00	105.10	130.20			30.7	34.9
13' 4"	Hillcrest	28.63	54.31	80.00	105.69	131.38			30.7	34.9
13' 6"	Short	29.80	55.40	81.00	106.60	132.20			30.3	34.4
13' 6"	Long	30.80	55.90	81.00	106.10	131.20			30.3	34.4
13' 6"	Hillcrest	29.13	55.06	81.00	106.94	132.88			30.3	34.4
13' 8"	Short	30.80	56.40	82.00	107.60	133.20			29.9	34.0
13' 8"	Long	31.25	56.63	82.00	107.38	132.75			29.9	34.0
13' 8"	Hillcrest	29.63	55.81	82.00	108.19	134.38			29.9	34.0
13' 10"	Short	31.39	57.16	82.94	108.71	134.49			29.6	33.6
13' 10"	Long	31.34	57.17	83.00	108.83	134.66			29.6	33.6
13' 10"	Hillcrest	30.13	56.56	83.00	109.44	135.88			29.6	33.6
14' 0"	Short	31.59	57.76	83.94	110.11	136.29			29.2	33.2
14' 0"	Long	33.25	58.63	84.00	109.38	134.75			29.2	33.2
14' 0"	Hillcrest	30.63	57.31	84.00	110.69	137.38			29.2	33.2
14' 2"	Short	32.75	58.85	84.94	111.41	137.89			28.9	32.8
14' 2"	Long	33.34	59.17	85.00	110.83	136.66			28.9	32.8
14' 2"	Hillcrest	31.13	58.06	85.00	111.94	138.88			28.9	32.8

TABLE 3 (CONTINUED)

Section	Panel Type	Center Stile Locations (Measured from Left Edge)							Max Design Loads Allowed	
		1st (in)	2st (in)	3rd (in)	4th (in)	5th (in)	6th (in)	7th (in)	Positive (PSF)	Negative (PSF)
14' 4"	Short	32.39	59.16	85.94	112.71	139.49			28.5	32.4
14' 4"	Long	34.34	60.17	86.00	111.83	137.66			28.5	32.4
14' 4"	Hillcrest	31.63	58.81	86.00	113.19	140.38			28.5	32.4
14' 6"	Short	32.79	59.86	86.94	114.01	141.09			28.2	32.1
14' 6"	Long	35.34	61.17	87.00	112.83	138.66			28.2	32.1
14' 6"	Hillcrest	32.13	59.56	87.00	114.44	141.88			28.2	32.1
14' 8"	Short	33.19	60.56	87.94	115.31	142.69			27.9	31.7
14' 8"	Long	44.81	66.41	88.00	109.59	131.19			27.9	31.7
14' 8"	Hillcrest	32.63	60.31	88.00	115.69	143.38			27.9	31.7
14' 10"	Short	33.59	61.26	88.94	116.61	144.29			27.6	31.3
14' 10"	Long	45.60	67.30	89.00	110.70	132.40			27.6	31.3
14' 10"	Hillcrest	33.13	61.06	89.00	116.94	144.88			27.6	31.3
15' 0"	Short	61.94	75.94	89.94	103.94	117.94			24.5	27.8
15' 0"	Long	46.60	68.30	90.00	111.70	133.40			27.2	31.0
15' 0"	Hillcrest	33.63	61.81	90.00	118.19	146.38			27.3	31.0
15' 2"	Short	62.66	76.80	90.94	105.08	119.21			24.2	27.5
15' 2"	Long	47.60	69.30	91.00	112.70	134.40			26.8	30.5
15' 2"	Hillcrest	34.13	62.56	91.00	119.44	147.88			27.0	30.6
15' 4"	Short	28.00	53.60	79.20	104.80	130.40	156.00		26.7	30.3
15' 4"	Long	47.25	69.63	92.00	114.38	136.75			26.7	30.3
15' 4"	Hillcrest	34.63	63.31	92.00	120.69	149.38			26.7	30.3
15' 6"	Short	46.62	69.81	93.00	116.19	139.38			26.4	30.0
15' 6"	Long	47.60	70.30	93.00	115.70	138.40			26.4	30.0
15' 6"	Hillcrest	47.42	70.21	93.00	115.79	138.58			26.4	30.0
15' 8"	Short	47.62	70.81	94.00	117.19	140.38			26.1	29.7
15' 8"	Long	48.60	71.30	94.00	116.70	139.40			26.1	29.7
15' 8"	Hillcrest	48.02	71.01	94.00	116.99	139.98			26.1	29.7
15' 10"	Short	48.62	71.81	95.00	118.19	141.38			25.8	29.4
15' 10"	Long	49.17	72.08	95.00	117.92	140.83			25.8	29.3
15' 10"	Hillcrest	48.62	71.81	95.00	118.19	141.38			25.8	29.4
16' 0"	Short	49.62	72.81	96.00	119.19	142.38			25.6	29.1
16' 0"	Long	50.60	73.30	96.00	118.70	141.40			25.4	28.9
16' 0"	Hillcrest	48.42	72.21	96.00	119.79	143.58			25.6	29.1