

NOTES:

1. NON-IMPACT RESISTANT GLAZING OPTION – .090" MINIMUM SSB GLAZING IN MOLDED FRAMES GLUED WITH A 1/8" BEAD OF BOSTIK 1100 OR EQUIVALENT UNDER THE OUTER FRAME AND SCREWED TOGETHER WITH A MINIMUM OF (10) #8x1" SCREWS INSTALLED IN TOP OR INTERMEDIATE SECTION (WITH OR WITHOUT DECORATIVE INSERTS) MEETS UNIFORM STATIC DESIGN PRESSURES SHOWN ON THIS DRAWING. GLAZING SHALL HAVE A MAXIMUM HEIGHT OF 13.75" AND A MAXIMUM LENGTH OF 39". GLAZING IS NOT IMPACT RESISTANT AND DOES NOT MEET THE REQUIREMENTS FOR WIND-BORNE DEBRIS REGIONS. GLAZED SECTION REQUIRES 18 GA J-STRUNT SCREWED TO LOWER INTEGRAL RIB OF SECTION AND OPERATOR STILE TO BE FACTORY INSTALLED. INSTALLER SHALL FIELD INSTALL (1) 1/4-14x7/8" SELF DRILLING CRIMPITE SCREW TO ATTACH THE J-STRUNT TO THE INTEGRAL RIB AND OPERATOR STILE AT THE CENTERLINE OF THE DOOR PER DETAIL F ON SHEET 2.

2. VINYL OR WOOD DOOR STOP NAILED A MAXIMUM OF 6" O.C. MUST OVERLAP TOP AND BOTH ENDS OF PANELS MINIMUM 7/16" TO MEET NEGATIVE PRESSURES.

3. KEY LOCK OR SLIDE LOCKS REQUIRED.

4. SECTION SHALL BE CONSTRUCTED WITH FOAMED IN PLACE POLYURETHANE FOAM INSULATION CHEMICALLY BONDED TO 30 GA MINIMUM FACER STEEL AND A POLYLAMINATE OR 32 GA STEEL BACKER. END CAP TO HAVE A MINIMUM 1.4" DEPTH.

5. THE DESIGN OF THE SUPPORTING STRUCTURAL ELEMENTS SHALL BE THE RESPONSIBILITY OF THE PROFESSIONAL OF RECORD FOR THE BUILDING OR STRUCTURE AND IN ACCORDANCE WITH CURRENT BUILDING CODES FOR THE LOADS LISTED ON THIS DRAWING.

6. DOOR JAMB TO BE MINIMUM 2x6 STRUCTURAL GRADE LUMBER. REFER TO JAMB CONNECTION SUPPLEMENT FOR ATTACHMENT TO SUPPORTING STRUCTURE.

7. LOUVER OPTION – .040" MINIMUM LOUVERS IN MOLDED FRAMES SCREWED TOGETHER WITH A MINIMUM OF (6) #8x1" SCREWS INSTALLED IN THE BOTTOM SECTION. LOUVERS ARE NOT IMPACT RESISTANT AND DO NOT MEET THE REQUIREMENTS FOR WIND-BORNE DEBRIS REGIONS. LOUVERED SECTION REQUIRES OPERATOR STILE TO BE FACTORY INSTALLED AT THE CENTERLINE OF THE DOOR.

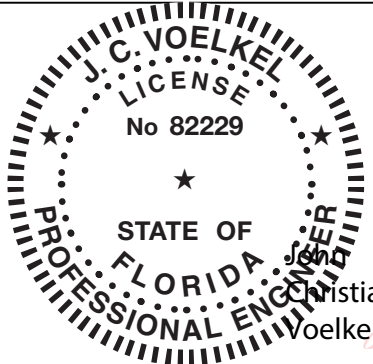
- 13 GA HORIZ ANGLE
- 13 GA FLAG ANGLE
- 16 GA MIN HORIZ TRACK
- 5/16x1-5/8" LAG SCREW (MIN 3 AS SHOWN)
- 16 GA MIN VERT TRACK
- 5/16x1-5/8" LAG SCREW AT EACH JAMB BRACKET
- 1/4-20x9/16" TRACK BOLT AND 1/4-20 HEX NUT AT EACH JB JAMB BRACKET LOCATION

15 GA STIFFENED JAMB BRACKETS SEE SCHELDULE FOR QUANTITY, LOCATION, AND TYPE

KEY LOCK OR SLIDE LOCK BOTH ENDS (SEE NOTE 2). SLIDE LOCK SHOWN FOR CLARITY

NOTE: SEE SHEET 2 FOR U-BAR LOCATIONS ON DOORS WITH OTHER SECTION QUANTITIES.

SUPERIMPOSED DESIGN PRESSURE LOADS ON SUPPORTING STRUCTURE			
MAX DOOR WIDTH	MAX DOOR HEIGHT	UNIFORM LOAD EACH JAMB (PLF)	POINT LOAD AT HEADER AND SLAB AT EACH POST LOCATION (LBS)
18'-0"	7'-0"	+126.1/-167.3	+1237.5/-1381.9
	8'-0"	+126.1/-167.3	+1406.3/-1570.3



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PROFESSIONAL ENGINEER'S SEAL PROVIDED ONLY FOR VERIFICATION OF WINDLOAD CONSTRUCTION DETAILS.

Digitally signed
by John Christian
Voelkel
Date: 2020.10.09
19:25:03 -05'00'

JAMB BRACKET SCHEDULE				
DOOR HEIGHT	NO. OF SECTIONS	NO. OF JAMB BRACKETS (EACH JAMB)	TRACK TYPE	LOCATION OF CENTERLINE OF JAMB BRACKETS MEASURED FROM BOTTOM OF TRACK (ALL DIMENSIONS ± 2")
7'-0"	4	4	QI	13" (QI), 25-1/2" (JB), 45-1/4" (QI), 63" (JB)
7'-0"	4	4	FAT	10" (JB), 21-3/4" (JB), 42" (JB), 63-1/4" (JB)
8'-0"	4 OR 5	5	QI	13" (QI), 23" (JB), 34" (JB), 47-1/4" (QI), 67" (QI)
8'-0"	4 OR 5	5	FAT	10" (JB), 21-3/4" (JB), 29-3/4" (JB), 48" (JB), 66" (JB)
HIGH LIFT/ROOF PITCH			SEE NOTE BELOW	

NOTE:
(JB) FOLLOWING DIMENSION DENOTES SLOTTED JAMB BRACKET ATTACHED TO TRACK WITH 1/4-20x9/16" TRACK BOLT AND NUT.
(QI) FOLLOWING DIMENSION DENOTES QUICK INSTALL JAMB BRACKET INSTALLED IN BUTTERFLY SLOT. NO ADDITIONAL HARDWARE NEEDED TO ATTACH TO TRACK.
ALL DOORS WITH HIGH LIFT AND/OR ROOF PITCH REQUIRE USE OF CONTINUOUS WALL ANGLE. SEE SUPPLEMENT TRACK CHART FOR DETAILS.



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STATIC PRESSURE RATINGS		APPROVED SIZES		SCALE: N.T.S.		SIZE: A	
DESIGN (PSF):	+30.00/−33.50	MAX WIDTH:	18′−0″		DATE	NAME	
TEST (PSF):	+45.00/−50.25	MAX HEIGHT:	8′−0″	DRAWN	3/3/06	GRT	
IMPACT/CYCLIC RATED (YES/NO): NO		MAX SECTION HEIGHT: 24″		CHECKED	4/6/06	MRB	
MODELS 5120/5145/9100/9405/9600				SHEET 1 OF 2			
WINDLOAD SPECIFICATION OPTION CODE 0606				DRAWING PART NO.		REV.	
				319032		G	

A
SHEET 2

B
SHEET 2

C
SHEET 2
TYP

F
SHEET 2
TYP

G
SHEET 2

NOTE: POST SYSTEM IS TO BE INSTALLED ON THE CENTER LINE OF THE DOOR. SEE WINDLOAD POST INSTALLATION INSTRUCTIONS.

REVISIONS

- P1 REVISED SUPERIMPOSED DESIGN PRESSURE LOADS ON SUPPORTING STRUCTURE MRB 5/10/06
- P2 ADDED MODEL 6100. MODIFIED NOTE 7 TO STATE THAT LOUVERS ARE NOT IMPACT RESISTANT. GRT 6/6/07
- P3 MODIFIED JAMB BRACKET SCHEDULE FOR FAT OPTION. ADDED LHR TRACK DETAIL SHEET 2. GRT 4/17/08
- P4 ADDED CONCRETE DETAIL SHEET 2. ADDED TEXAS LICENSE NUMBER TO TITLE BLOCK. CHANGED LOUVER NOTE. ADDED HIGH LIFT AND ROOF PITCH TRACK NOTE. GRT 4/29/09
- P5 ADDED GLAZING OPTION GRT 2/11/10
- P6 UPDATED TITLE BLOCK GRT 5/4/10
- P7 ER31223 CHANGED DOOR MODEL NUMBERS, AND BACKER NOTES ESC 6/7/2017
- G UPDATED REVISION FROM NUMERIC TO ALHPA TLC 092920

13 GA ADJUSTABLE TOP
FIXTURE ATTACHED TO
PRE-PUNCHED HOLES
IN BOTTOM OF U-BAR
WITH (2) 1/4-14x5/8"
CRIMPTITE SCREWS

DETAIL A

13 GA ROLLER SLIDE ATTACHED TO
PRE-PUNCHED HOLES IN TOP OF U-BAR
WITH (2) 1/4-14x5/8" CRIMPTITE SCREWS.
USE VIEWING HOLE IN SLIDE TO ENSURE
PROPER ALIGNMENT OF ROLLERS

15 GA HINGE ATTACHED
WITH (4) 1/4-14x5/8"
CRIMPTITE SCREWS (2 OF
WHICH ARE FACTORY
ATTACHED)

DETAIL B

18 GA HINGE ATTACHED
WITH (6) 1/4-20x5/8"
CRIMPTITE SCREWS (2 OF
WHICH ARE FACTORY
ATTACHED, 3 OF WHICH
ARE FIELD INSTALLED INTO
TOP LEAF, AND 1 OF
WHICH IS FIELD INSTALLED
THRU PRE-PUNCHED HOLE
IN U-BAR)

DETAIL C

12 GA BOTTOM BRACKET
FACTORY ATTACHED WITH
(3) 1/4-14x5/8"
CRIMPTITE SCREWS

DETAIL D

PLACE U-BAR OVER INTEGRAL RIB
WITH THE (8) PRE-PUNCHED
HOLES EACH END FACING UPWARD
AND ATTACH THRU END CAP AT
EACH END WITH (2) 1/4-14x7/8"
SELF DRILLING CRIMPTITE SCREWS
FOR STANDARD TRACK AND (3)
1/4-14x7/8" SELF DRILLING
CRIMPTITE SCREWS FOR LOW
HEADROOM TRACK (2 OF WHICH
ARE USED TO ATTACHED THE TOP
BRACKET AS SHOWN).

PLACE U-BAR OVER INTEGRAL
RIB WITH THE (8) PRE-PUNCHED
HOLES EACH END FACING UPWARD
AND ATTACH THRU END CAP AT
EACH END WITH (2) 1/4-14x7/8"
SELF DRILLING CRIMPTITE SCREWS
EXCEPTION: U-BAR PLACED
OVER TOP RIB ON THE BOTTOM
SECTION SHALL ONLY BE
ATTACHED THRU END CAP AT
EACH END WITH (1) 1/4-14x7/8"
SELF DRILLING CRIMPTITE SCREW
LOCATED ON THE BOTTOM FLANGE
OF THE U-BAR
NOTE: DUE TO CLEARANCES
REQUIRED TO INSTALL SCREWS AT
THE ENDS OF THE U-BARS, ALL
U-BARS SHALL BE INSTALLED ON
SECTIONS PRIOR TO INSTALLING
ROLLER SLIDES AND TOP FIXTURE
ON THE U-BARS. SEE
ATTACHMENT NOTES ON THIS
SHEET.

PLACE U-BAR OVER INTEGRAL
RIB AND ATTACH WITH (2)
1/4-20x5/8" CRIMPTITE SCREWS
THRU PRE-PUNCHED HOLES AT
EACH INTERMEDIATE HINGE
LOCATION (1 THRU FLANGE OF
U-BAR AND BOTTOM HINGE LEAF
AND 1 THRU WEB OF U-BAR AND
INTEGRAL RIB OF SECTION)
EXCEPTION: AT ALL LOCATIONS
REQUIRING A STRAP BRACKET, (1)
1/4-14x7/8" SELF DRILLING
CRIMPTITE SCREW WILL BE USED.

PLACE U-BAR OVER INTEGRAL RIB
WITH NOTCH DOWN TO CLEAR
BOTTOM BRACKET AND ATTACH
THRU END CAP AT EACH END WITH
(1) 1/4-14x7/8" SELF DRILLING
CRIMPTITE SCREW AS SHOWN AND
USE (1) 1/4-14x7/8" SELF
DRILLING CRIMPTITE SCREW ACROSS
THE BOTTOM OF THE BOTTOM
U-BAR AT EACH PRE-PUNCHED
HOLE AT EVERY HINGE LOCATION.
USE (1) 1/4-20x5/8" CRIMPTITE
SCREW AT ALL OTHER
PRE-PUNCHED HOLE LOCATIONS.

LOW HEADROOM TRACK

DETAIL A

(1) 1/4-14x7/8" SELF DRILLING CRIMPTITE
SCREW AT CENTER LINE OF DOOR THRU
J-STRUT & OPERATOR BRACKET.
NOTE: J-STRUT & SCREW ONLY REQUIRED
ON GLAZED SECTIONS. SEE NOTE 1 ON
SHEET 1

(3) 1/4-14x7/8"
SELF DRILLING
CRIMPTITE SCREWS

STRAP
BRACKET

5/16"
HITCH PIN

(2) 5/16-12x1"
SELF DRILLING
SCREWS W/ 5/16
FLAT WASHERS

DETAIL F

1/2-13x3-1/2"
HEX BOLT & NUT

(4) 5/16-12x1"
SELF DRILLING
SCREWS

DETAIL G

13 GA ADJUSTABLE
TOP FIXTURE

HEADER LOCK
BRACKET

(4) 5/16x1-5/8"
LAG SCREWS

5/16-18x2-1/2"
HEX BOLT & NUT

MODELS 5120/9100

HEADER

TOP PLATE
EXTENSION

TOP LOCK
PLATE

HEADER LOCK
BRACKET

(4) 5/16x1-5/8"
LAG SCREWS

5/16-18x2-1/2"
HEX BOLT & NUT

(4) 5/16-12x1"
SELF DRILLING
SCREWS

INNER POST

DETAIL E

MODEL 6100

(5) SECTION DOORS
WITH (6) 3", 20 GA,
80 KSI U-BARS
LOCATED OVER
INTEGRAL RIBS AS
SHOWN

(4) SECTION DOORS
WITH (5) 3", 20 GA,
80 KSI U-BARS
LOCATED OVER
INTEGRAL RIBS AS
SHOWN

2500 PSI MIN
CONCRETE

8" X 8" MIN
TURNDOWN
SLAB AT EDGE

6" MIN
EDGE
DISTANCE

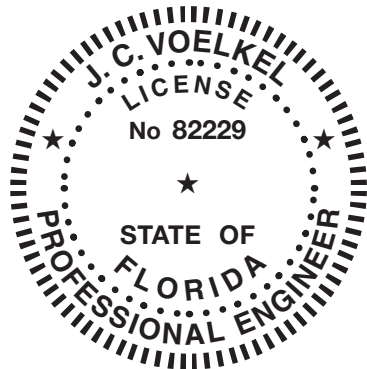
CONCRETE DETAIL

U-BAR ATTACHMENT NOTES

1. ALL U-BARS SHALL BE PLACED OVER INTEGRAL RIBS AND
ATTACHED THRU PRE-PUNCHED HOLES WITH (2) 1/4-14x5/8"
CRIMPTITE SCREWS AT EACH INTERMEDIATE HINGE LOCATION,
(2) 1/4-14x7/8" SELF DRILLING CRIMPTITE SCREWS AT EACH
END CAP (EXCEPT BOTH U-BARS ON BOTTOM SECTION - SEE
DETAIL B AND D THIS SHEET), (2) 1/4-14x5/8" CRIMPTITE
SCREWS APPROXIMATELY MIDWAY BETWEEN END OF DOOR AND
INTERMEDIATE HINGE LOCATION, AND (1) 1/4-14x5/8"
CRIMPTITE SCREW APPROXIMATELY 8" FROM EACH END.
THERE SHALL BE A TOTAL OF (20) SCREWS ATTACHING EACH
U-BAR EXCEPT BOTH U-BARS ON BOTTOM SECTION SHALL
HAVE A TOTAL OF (18) SCREWS EACH.

2. WITH THE EXCEPTION OF THE (8) PRE-PUNCHED HOLES IN
THE TOP OF EACH END USED FOR ATTACHMENT OF THE
ROLLER SLIDES AND THE (6) PRE-PUNCHED HOLES IN THE
BOTTOM OF EACH END USED FOR THE ATTACHMENT OF THE
TOP FIXTURE AND UNLESS NOTED OTHERWISE ON THIS
SPECIFICATION DRAWING, ALL PRE-PUNCHED HOLES IN ALL
U-BARS SHALL BE ATTACHED TO THE DOOR WITH
1/4-14x5/8" CRIMPTITE SCREWS.

3. 20 GA U-BARS SHALL BE STAMPED "34" APPROXIMATELY
8" FROM EACH END.



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STATIC PRESSURE RATINGS		APPROVED SIZES		SCALE: N.T.S.		SIZE: A	
DESIGN (PSF): +30.00/−33.50		MAX WIDTH: 18′−0″			DATE		NAME
TEST (PSF): +45.00/−50.25		MAX HEIGHT: 8′−0″		DRAWN	3/3/06		GRT
IMPACT/CYCLIC RATED (YES/NO): NO		MAX SECTION HEIGHT: 24″		CHECKED	4/6/06		MRB
P	MODELS 5120/5145/9100/9405/9600				SHEET 2 OF 2		
	WINDLOAD SPECIFICATION OPTION CODE 0606				DRAWING PART NO.		REV.
					319032		G