

NOTES:

1. IMPACT RESISTANT GLAZING OPTION – IMPACT RESISTANT GLAZING SYSTEM MAY BE INSTALLED IN TOP OR INTERMEDIATE SECTION (WITH OR WITHOUT DECORATIVE INSERTS). GLAZING SHALL BE 1/4" MAKROLON–AR POLYCARBONATE OR EQUAL. GLAZING SHALL HAVE A MAXIMUM HEIGHT OF 15.21" AND A MAXIMUM LENGTH OF 50.08". GLAZING IS IMPACT RESISTANT AND DOES MEET THE REQUIREMENTS FOR WIND–BORNE DEBRIS REGIONS. SEE DETAIL H ON SHEET 2 FOR ASSEMBLY DETAILS. GLAZED SECTION REQUIRES REINFORCEMENT BRACKETS ATTACHED TO U–BAR ON UPPER INTEGRAL RIB (SEE DETAIL J SHEET 2), 20 GA J–STRUT SCREWED TO LOWER INTEGRAL RIB OF SECTION AND OPERATOR STILE TO BE FACTORY INSTALLED. INSTALLER SHALL FIELD INSTALL (3) 1/4–14x7/8" SELF DRILLING CRIMPTITE SCREW TO ATTACH THE ADDITIONAL STRAP BRACKET TO THE J–STRUT 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.

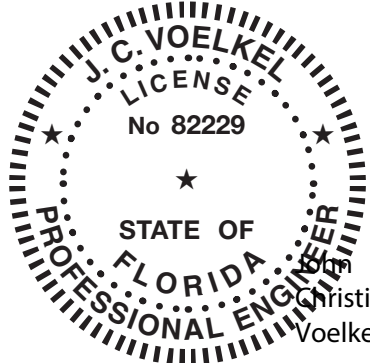
5. THE DESIGN OF THE SUPPORTING STRUCTURAL ELEMENTS SHALL BE THE RESPONSIBILITY OF THE PROFESSIONAL OF RECORD FOR THE BUILDING OR STRUCTURE AND IN ACCORDANCE WITH CURRENT BUILDING CODES FOR THE LOADS LISTED ON THIS DRAWING.

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.

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)
16'–0"	7'–0"	+157.0/–208.0	+1437.3/–1602.3
	8'–0"	+157.0/–208.0	+1633.3/–1820.8
14'–0"	7'–0"	+157.0/–208.0	+1257.7/–1402.1
	8'–0"	+157.0/–208.0	+1429.2/–1593.2
12'–0"	7'–0"	+157.0/–208.0	+1078.0/–1201.7
	8'–0"	+157.0/–208.0	+1225.0/–1365.6
10'–0"	7'–0"	+157.0/–208.0	+898.3/–1001.5
	8'–0"	+157.0/–208.0	+1020.8/–1138.0



J. CHRISTIAN VOELKEL, PE
312 N. WARRINGTON RD. UNIT 1A
PENSACOLA, FL
FL PE 77945
TX PE 133174
PROFESSIONAL ENGINEER'S SEAL PROVIDED ONLY FOR VERIFICATION OF WINDLOAD CONSTRUCTION DETAILS.

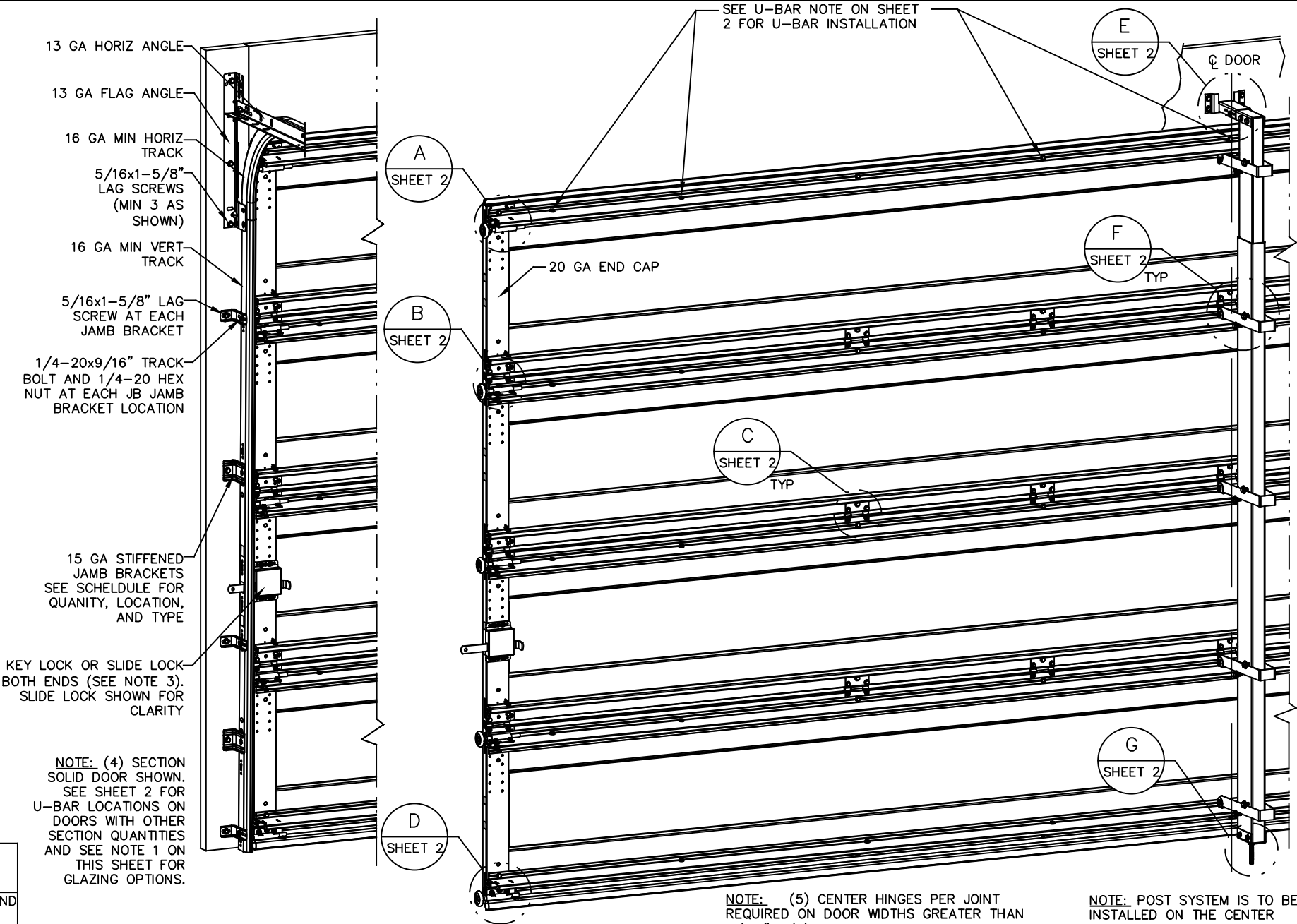
NOTE:

(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.

Digitally signed by
John Christian
Voelkel
Date: 2020.10.09
19:20:46 -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	5	QI	2" (JB), 13" (QI), 25–1/2" (JB), 45–1/4" (QI), 63" (JB)
7'–0"	4	5	FAT	2" (JB), 10" (JB), 25–3/4" (JB), 42" (JB), 63–1/4" (JB)
8'–0"	4 OR 5	6	QI	2" (JB), 13" (QI), 23" (JB), 34" (JB), 47–1/4" (QI), 67" (QI)
8'–0"	4 OR 5	6	FAT	2" (JB), 10" (JB), 21–3/4" (JB), 29–3/4" (JB), 48" (JB), 66" (JB)
HIGH LIFT/ROOF PITCH				SEE NOTE BELOW

Wayne Dalton
GARAGE DOORS™

A DIVISION OF OVERHEAD DOOR CORP
3395 ADDISON DRIVE
PENSACOLA, FLORIDA 32514
(850) 474–9890

STATIC PRESSURE RATINGS		APPROVED SIZES		SCALE: N.T.S.		SIZE: A	
DESIGN (PSF):	+39.20/–43.70	MAX WIDTH:	16'–0"	DATE		NAME	
TEST (PSF):	+58.80/–65.55	MAX HEIGHT:	8'–0"	DRAWN	3/3/06	GRT	
IMPACT/CYCLIC RATED (YES/NO): YES		MAX SECTION HEIGHT: 24"	CHECKED	4/6/06	MRB		
MODELS 5120/5145/9100/9405/9600					SHEET 1 OF 2		
WINDLOAD SPECIFICATION OPTION CODE 0604					DRAWING PART NO.	REV.	
					319030	E	

REVISIONS

P1 ADDED SUPERIMPOSED DESIGN PRESSURE LOADS ON SUPPORTING STRUCTURE AND CLARIFIED NUMBER OF FASTENERS AND CENTER HINGES REQUIRED FOR NARROWER DOOR WIDTHS.
MRB 5/10/06

P2 ADDED IMPACT RESISTANCE TO DOOR. ADDED JB JAMB BRACKET AT 2" LOCATION. 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 IMPACT RESISTANT GLAZING. 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 UPDATED TITLE BLOCK
GRT 5/4/10

P6 ER31223
CHANGED DOOR MODEL NUMBERS, AND BACKER NOTES
ESC 6/7/2017

E 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.

#8x3/4" MIN STAINLESS
SCREWS WITH STAINLESS
BACKED RUBBER WASHERS
3-1/2" O.C. MAX

1/8" BEAD GE
ULTRAGLAZE
SSG4000AC
STRUCTURAL
SEALANT OR
EQUIVALENT

FACER STEEL

NON-STRUCTURAL
DECORATIVE INNER
WINDOW TRIM

LOW HEADROOM TRACK

DETAIL A

USED ONLY ON IMPACT
GLAZED SECTION - 11
GA REINFORCEMENT
BRACKET ATTACHED
WITH (4) 1/4-14x7/8"
SELF DRILLING
CRIMPTITE SCREWS (2
THROUGH BOTH
BRACKET AND U-BAR)

DETAIL J

(3) 1/4-14x7/8" SELF DRILLING CRIMPTITE
SCREW THRU ADDITIONAL STRAP BRACKET,
J-STRUT & OPERATOR BRACKET.
NOTE: ADDITIONAL STRAP BRACKET, J-STRUT,
OPERATOR BRACKET, & SCREWS ONLY REQUIRED
ON IMPACT GLAZED SECTIONS. SEE NOTE 1
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

ADDITIONAL STRAP
BRACKET

(1) 1/4-14x7/8" SELF
DRILLING CRIMPTITE
SCREW EACH SIDE OF
STRAP BRACKET (ONLY
REQUIRED ON IMPACT
GLAZED DOOR)

2500 PSI MIN
CONCRETE

8" X 8" MIN
TURNDOWN
SLAB AT EDGE

6" MIN
EDGE
DISTANCE

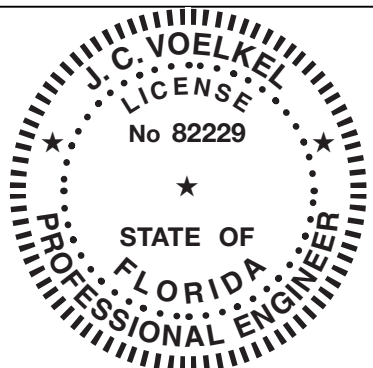
CONCRETE DETAIL

U-BAR ATTACHMENT NOTES

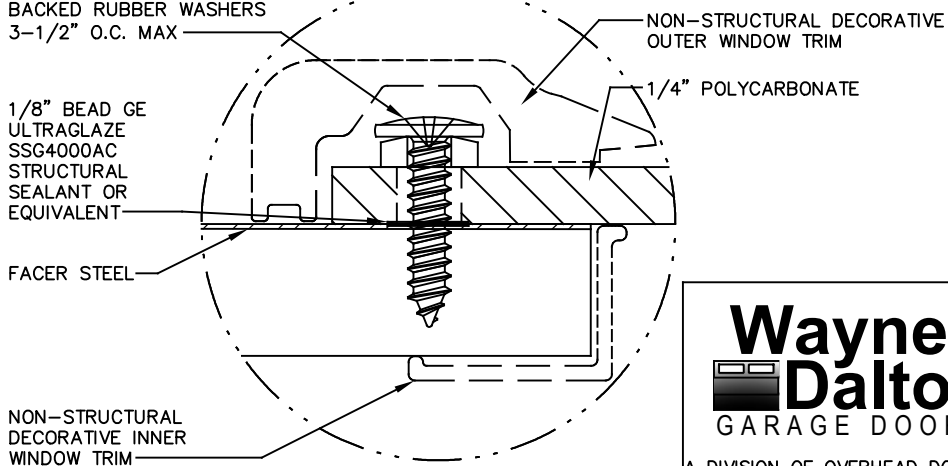
1. ALL U-BARS SHALL BE PLACED OVER INTEGRAL RIBS AND
ATTACHED THRU PRE-PUNCHED HOLES WITH (2) 1/4-14x5/8"
CRIMPTITE SCREWS AT EACH INTERMEDIATE HINGE LOCATION,
(2) 1/4-14x7/8" SELF DRILLING CRIMPTITE SCREWS AT EACH
END CAP (EXCEPT BOTH U-BARS ON BOTTOM SECTION - SEE
DETAIL B AND D THIS SHEET), (2) 1/4-14x5/8" 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. FOR
DOOR WIDTHS GREATER THAN 12'-0", 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. FOR DOOR WIDTHS LESS THAN OR EQUAL TO
12'-0", THERE SHALL BE A TOTAL OF (16) SCREWS ATTACHING
EACH U-BAR EXCEPT BOTH U-BARS ON BOTTOM SECTION
SHALL HAVE A TOTAL OF (14) 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.



J. CHRISTIAN VOELKEL, PE
312 N. WARRINGTON RD. UNIT 1A
PENSACOLA, FL
FL PE 77945
TX PE 133174
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DETAIL H

Wayne Dalton
GARAGE DOORS™

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PENSACOLA, FLORIDA 32514
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STATIC PRESSURE RATINGS		APPROVED SIZES		SCALE: N.T.S.		SIZE: A	
DESIGN (PSF):	+39.20/-43.70	MAX WIDTH:	16'-0"		DATE		NAME
TEST (PSF):	+58.80/-65.55	MAX HEIGHT:	8'-0"	DRAWN	3/3/06		GRT
IMPACT/CYCLIC RATED (YES/NO): YES		MAX SECTION HEIGHT: 24"	CHECKED	4/6/06			MRB
MODELS 5120/5145/9100/9405/9600					SHEET 2 OF 2		
WINDLOAD SPECIFICATION OPTION CODE 0604					DRAWING PART NO.		REV.
					319030		E