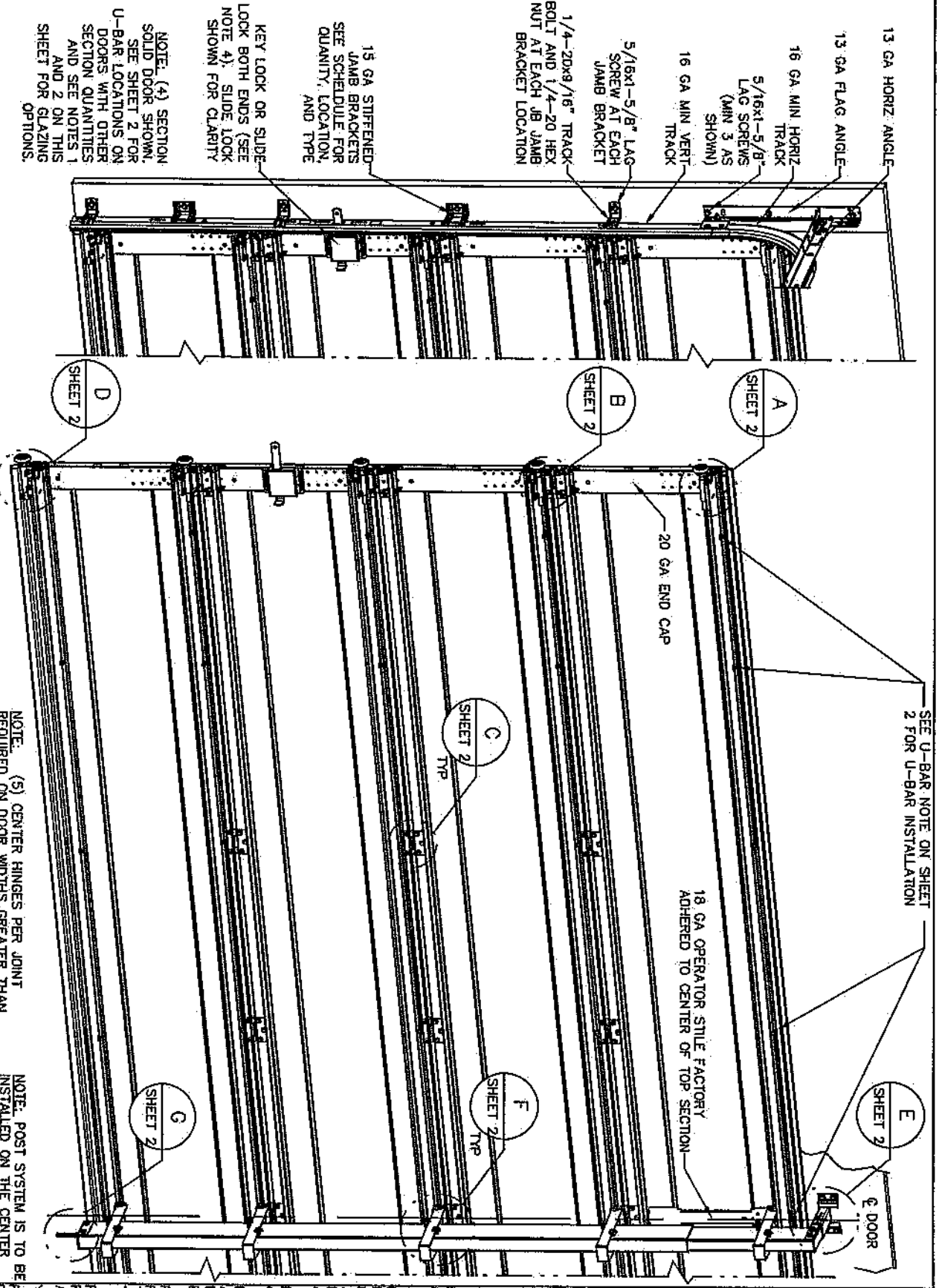


- NOTES:
- NON-IMPACT RESISTANT GLAZING (DETAIL H) - .090" MINIMUM SSB GLAZING IN MOLDED FRAMES SCREWED TOGETHER WITH A MINIMUM OF (10) #8x1" SCREWS ((3) ALONG EACH HORIZONTAL LEG AND (2) ALONG EACH VERTICAL LEG) FOR GLAZING WITH A MAXIMUM LENGTH OF 16.75" OR (10) #8x1" SCREWS FOR GLAZING WITH A MAXIMUM LENGTH OF 39" 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". GLAZING IS NOT IMPACT RESISTANT AND DOES NOT MEET THE REQUIREMENTS FOR WIND-BORNE DEBRIS REGIONS. SEE DETAIL H ON SHEET 2 FOR ASSEMBLY DETAILS.
 - IMPACT RESISTANT GLAZING (DETAIL K) - IMPACT RESISTANT GLAZING SYSTEM MAY BE INSTALLED IN TOP OR INTERMEDIATE SECTION (WITH OR WITHOUT DECORATIVE INSERTS). GLAZING SHALL BE 1/4" MAKROXON-AR POLYCARBONATE OR EQUAL. GLAZING SHALL HAVE A MAXIMUM HEIGHT OF 15.21" AND A MAXIMUM LENGTH OF 50.08" SCREWED TOGETHER WITH A MINIMUM OF (10) #8x1" SCREWS ((3) ALONG EACH HORIZONTAL LEG AND (2) ALONG EACH VERTICAL LEG). GLAZING IS IMPACT RESISTANT AND DOES MEET THE REQUIREMENTS FOR WIND-BORNE DEBRIS REGIONS. GLAZED SECTION TO U-BAR ON UPPER INTEGRAL RIB (SEE DETAIL G SHEET 2), 18 GA J-STRIUT 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-STRIUT TO THE INTEGRAL RIB AND OPERATOR STILE AT THE CENTERLINE OF THE DOOR PER DETAIL F ON SHEET 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.
 - KEY LOCK OR SLIDE LOCKS REQUIRED.
 - SECTION SHALL BE CONSTRUCTED WITH FOAMED IN PLACE POLYURETHANE FOAM INSULATION CHEMICALLY BONDED TO 30 GA MINIMUM PAPER STEEL AND A POLYAMINATE BACKER, OR 32 GA STEEL BACKER. END CAP TO HAVE A MINIMUM 1.1" DEPTH.
 - 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.
 - DOOR JAMB TO BE MINIMUM 2x6 STRUCTURAL GRADE LUMBER. REFER TO JAMB CONNECTOR SUPPLEMENT FOR ATTACHMENT TO SUPPORTING STRUCTURE.
 - LOUVER OPTION (DETAIL I) - .08" MINIMUM LOUVERS IN MOLDED FRAMES, 19"x13.9" (OLO=15 1/2"x 10 1/2"), SCREWED TOGETHER WITH A MINIMUM OF (12) #8x1" SCREWS ((3) ALONG EACH HORIZONTAL LEG AND (3) ALONG EACH VERTICAL LEG). LOUVERS ARE NOT IMPACT RESISTANT AND DO NOT MEET THE REQUIREMENTS FOR WIND-BORNE DEBRIS REGIONS. LOUVERS ARE ONLY INSTALLED IN THE BOTTOM SECTION. LOUVERED SECTION REQUIRES OPERATOR STILE TO BE FACTORY INSTALLED AT THE CENTERLINE OF THE DOOR.



NOTE: (4) SECTION SOLID DOOR SHOWN. SEE SHEET 2 FOR U-BAR LOCATIONS ON DOORS WITH OTHER SECTION QUANTITIES AND SEE NOTES 1 AND 2 ON THIS SHEET FOR GLAZING OPTIONS.

JAMB BRACKET SCHEDULE

DOOR HEIGHT	NO. OF BRACKETS (EACH JAMB)	TRACK TYPE	LOCATION OF CENTERLINE OF JAMB BRACKETS MEASURED FROM BOTTOM OF TRACK (ALL DIMENSIONS ± 2")
7'-0"	4	Q1	2" (JB), 13" (Q1), 25-1/2" (JB), 45-1/4" (Q1), 63" (JB)
7'-0"	4	FAT	2" (JB), 10" (JB), 25-3/4" (JB), 42" (JB), 63-1/4" (JB)
8'-0"	5	Q1	2" (JB), 13" (Q1), 23" (JB), 34" (JB), 47-1/4" (Q1), 67" (Q1)
8'-0"	5	FAT	2" (JB), 10" (JB), 21-3/4" (JB), 29-3/4" (JB), 48" (JB), 68" (JB)
8'-0"	6	FAT	SEE NOTE BELOW

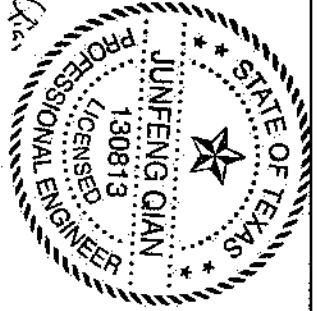
SUPERIMPOSED DESIGN PRESSURE LOADS ON SUPPORTING STRUCTURE

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/-1802.3
16'-0"	8'-0"	+157.0/-208.0	+1633.3/-1820.8
14'-0"	7'-0"	+157.0/-208.0	+1257.7/-1402.1
14'-0"	8'-0"	+157.0/-208.0	+1429.2/-1593.2
12'-0"	7'-0"	+157.0/-208.0	+1078.0/-1201.7
12'-0"	8'-0"	+157.0/-208.0	+1225.0/-1365.6
10'-0"	7'-0"	+157.0/-208.0	+898.3/-1001.5
10'-0"	8'-0"	+157.0/-208.0	+1020.8/-1138.0

NOTE: (5) CENTER HINGES PER JOINT REQUIRED ON DOOR WIDTHS GREATER THAN 12'-0". (3) CENTER HINGES PER JOINT REQUIRED ON DOOR WIDTHS LESS THAN OR EQUAL TO 12'-0".

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

- 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 SHORT PANEL GLAZING OPTION (NOTE 1) GRT 6/30/06
 - P3 ADDED IMPACT RESISTANCE TO DOOR. ADDED JB JAMB BRACKET AT 2" LOCATION. ADDED MODEL 6100. MODIFIED NOTE 9 TO STATE THAT LOUVERS ARE NOT IMPACT RESISTANT. GRT 6/6/07
 - P4 MODIFIED JAMB BRACKET SCHEDULE FOR FAT OPTION. ADDED LHR TRACK DETAIL SHEET 2. GRT 4/17/08
 - P5 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 7/22/08
 - P6 UPDATED TITLE BLOCK GRT 8/26/10
 - P7 ER31526 ADDED 9605 AND BACKER NOTES ESC 5/23/17
 - REV F - UPDATED REVISION FROM NUMERIC TO ALPHA TLC 092920
 - REV G - UPDATED REVISION ADDED NOTES FOR TDI 10/3/19/21
 - REV H - UPDATED DRAWING TLC 4/20/21



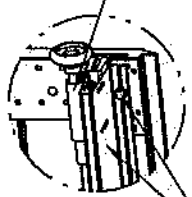
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PROFESSIONAL ENGINEER'S SEAL PROVIDED ONLY FOR VERIFICATION OF WINDLOAD CONSTRUCTION DETAILS.

(Q1) 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.
COMPLIES WITH THE REQUIREMENTS OF IBC/IRC 2018

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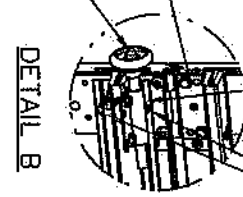
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DESIGN (PSF): +39.20/-43.70	MAX WIDTH: 16'-0"	DATE: 3/3/06	NAME: GRT
TEST (PSF): +58.80/-65.55	MAX HEIGHT: 8'-0"	DRAWN: 4/20/21	TLC
IMPACT/CYCLIC RATED (YES/NO): YES	MAX SECTION HEIGHT: 21" CHECKED	SHEET 1 OF 3	REV: H
MODELS 5120/9100/9605	WINDLOAD SPECIFICATION OPTION CODE 0235	DRAWING PART NO. 319023	

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



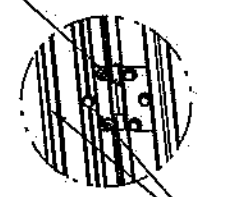
DETAIL A

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



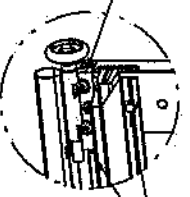
DETAIL B

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



DETAIL C

18 GA HINGE ATTACHED WITH (6) 1/4-14x5/8" CRIMPITE 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)

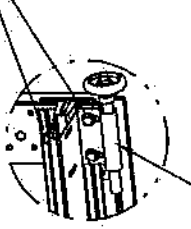


DETAIL D

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

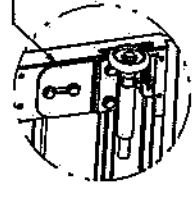
FOR IMPACT RESISTANCE, BOTTOM BRACKET MUST BE SCREWED TO THE BOTTOM U-BAR WITH (2) 1/4-14x7/8" SELF DRILLING CRIMPITE SCREWS. SEE IMPACT BOTTOM BRACKET DETAIL, THIS SHEET.

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 CRIMPITE SCREWS FOR STANDARD TRACK AND (3) 1/4-14x7/8" SELF DRILLING CRIMPITE SCREWS FOR LOW HEADROOM TRACK (2 OF WHICH ARE USED TO ATTACHED THE TOP BRACKET AS SHOWN).



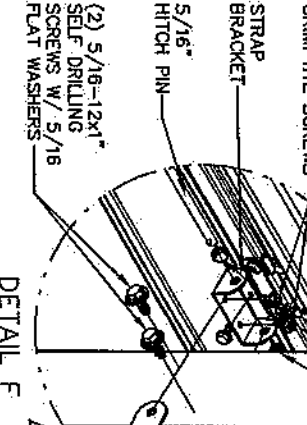
DETAIL A

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



DETAIL J

(1) 1/4-14x7/8" SELF DRILLING CRIMPITE SCREW AT CENTER LINE OF DOOR THRU J-STRUT & OPERATOR BRACKET. NOTE: J-STRUT & SCREW ONLY REQUIRED ON GLAZED SECTIONS. SEE NOTES 1 & 2 SHEET 1



DETAIL E

PLACE U-BAR OVER INTEGRAL RIB AND ATTACH WITH (2) 1/4-14x5/8" CRIMPITE 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 INTERMEDIATE RIB OF SECTION) EXCEPT, AT ALL LOCATIONS REQUIRING A STRAP BRACKET, (1) 1/4-14x7/8" SELF DRILLING CRIMPITE SCREW WILL BE USED.

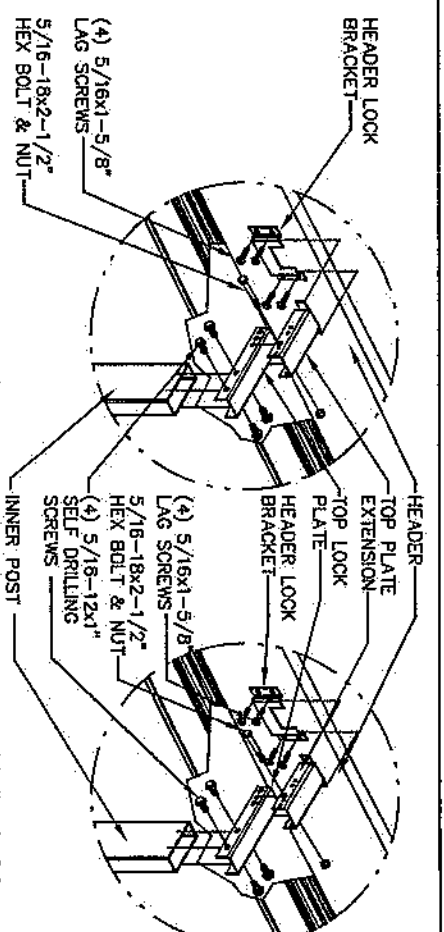
DETAIL G

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

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

ALUMINUM POST

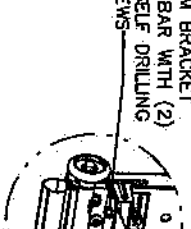
BOTTOM LOCK PLATE



MODEL 5120/9100

MODEL 6100

ATTACH BOTTOM BRACKET TO BOTTOM U-BAR WITH (2) 1/4-14x7/8" SELF DRILLING CRIMPITE SCREWS

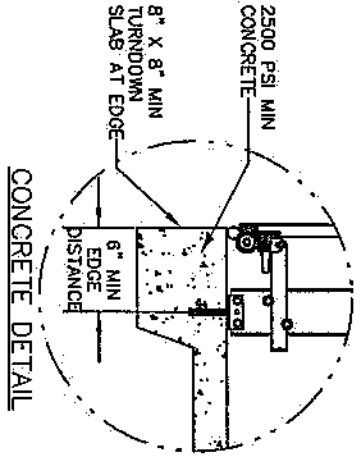


DETAIL F

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

IMPACT BOTTOM BRACKET

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



CONCRETE DETAIL

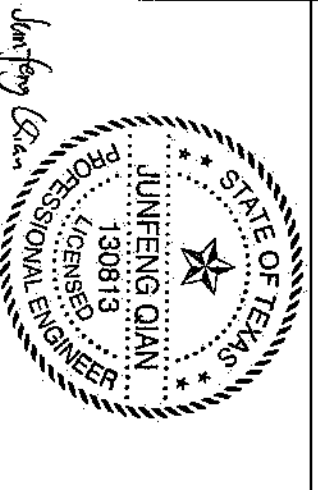
U-BAR ATTACHMENT NOTES

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

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

U-BAR ATTACHMENT NOTES



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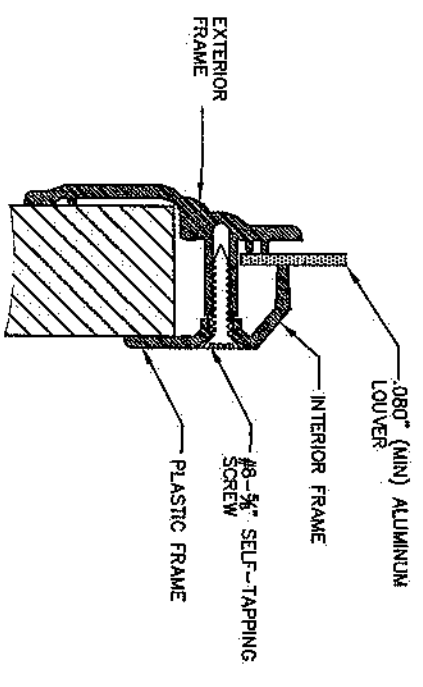
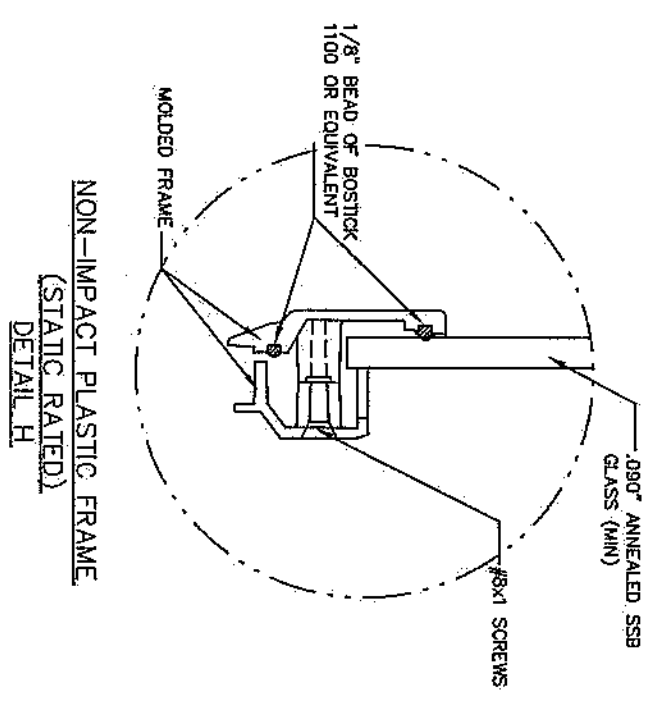
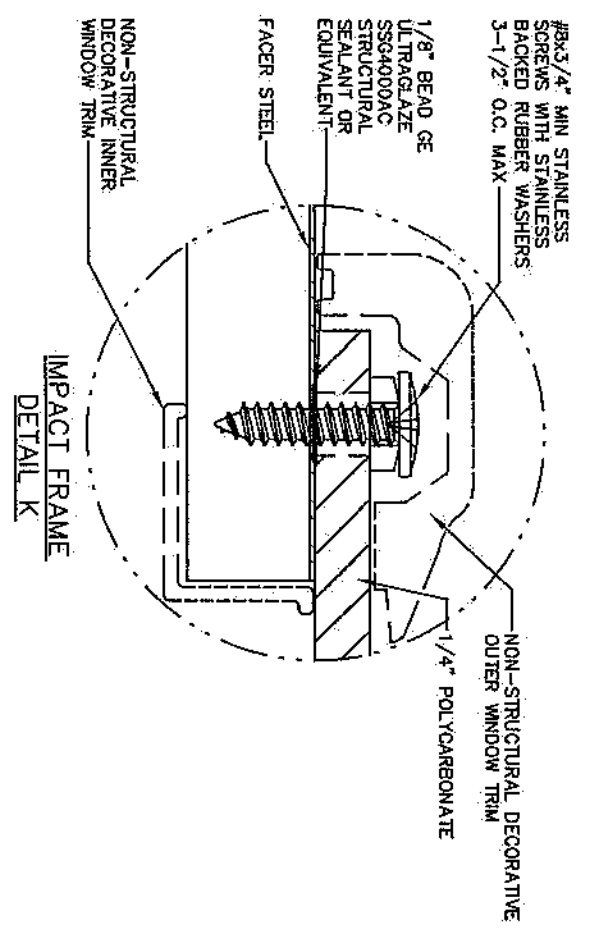
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GARAGE DOORS

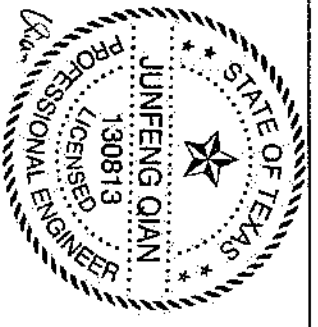
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STATIC PRESSURE RATINGS	APPROVED SIZES	SCALE: N.T.S.	SIZE: A
DESIGN (PSF): +39.20/-43.70	MAX WIDTH: 16'-0"	DATE	NAME
TEST (PSF): +58.80/-65.55	MAX HEIGHT: 8'-0"	DRAWN	GRT
IMPACT/CYCLIC RATED (YES/NO): YES	MAX SECTION HEIGHT: 21" CHECKED	4/20/21	TLC
MODELS 5120/9100/9605		SHEET 2 OF 3	REV.
WINDLOAD SPECIFICATION OPTION CODE 0235		DRAWING PART NO. 319023	H

REVISIONS



NON-IMPACT LOUVER
(STATIC RATED)
DETAIL I



Junfeng Qian
4/30/2021

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STATIC PRESSURE RATINGS		APPROVED SIZES		SCALE: N.T.S.		SIZE: A	
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TEST (PSF):	+58.80/-65.55	MAX HEIGHT:	8'-0"	CHECKED	3/3/06	GRT	
IMPACT/CYCLIC RATED (YES/NO):	YES	MAX SECTION HEIGHT:	21"	CHECKED	4/20/21	TLC	
MODELS 5120/9100/9605				SHEET 3 OF 3		DRAWING PART NO. 319023	
WINDLOAD SPECIFICATION OPTION CODE 0235						REV. H	