



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

Greenheck Fan Corporation
P.O. Box 410
Schofield, WI 54476

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Model EACA-601D Aluminum Louver System with Damper

APPROVAL DOCUMENT: Drawing No. **EACA-601D**, titled "EACA-601D", sheets 1 through 10 of 10, dated 07/07/2023, prepared by Greenheck Fan Corporation, signed and sealed by Robert V. Nangia, P.E. on 09/25/2023, bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **renews** and **revises** **NOA # 21-0526.08** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



NOA No 23-0726.02
Expiration Date: December 5, 2028
Approval Date: November 16, 2023
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous NOA's
- A. **DRAWINGS “Submitted under NOA # 13-0919-05”**
 1. Drawing No. **EACA-601D**, titled “EACA-601D”, sheets 1 through 10 of 10, dated 08/22/2013, prepared by the manufacturer, signed and sealed by Chander P. Nangia, P.E.
- B. **TESTS “Submitted under NOA # 13-0919-05”**
 1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of EACA-601D louvers, prepared by Architectural Testing, Inc., Test Report No. **C6839.01-602-18**, dated 08/12/2013, signed and sealed by Shawn G. Collins, P.E.
 2. Test report on High Velocity Wind Driven Rain Resistance per AMCA 550, prepared by Architectural Testing, Inc., Test Report No. **C6839.02-602-18**, dated 08/12/2013, signed and sealed by Shawn G. Collins, P.E.
- C. **CALCULATIONS “Submitted under NOA # 13-0919-05”**
 1. Structural calculations prepared by the manufacturer, dated 08/22/2013, signed and sealed by Chander P. Nangia, P.E.
- D. **QUALITY ASSURANCE**
 1. Miami-Dade Department of Regulatory and Economic Resources (RER)
- E. **MATERIAL CERTIFICATIONS**
 1. None.
- F. **STATEMENTS “Submitted under NOA # 16-0201.06”**
 1. Statement letter of code conformance to the 5th edition (2014) FBC issued by Chander P. Nangia, P.E., dated 01/11/2016, signed and sealed by Chander P. Nangia, P.E.

“Submitted under NOA # 13-0919-05”

 2. Statement letter of code conformance to 2010 FBC, issued by Chander P. Nangia, P.E., dated 09/08/2013, signed and sealed by Chander P. Nangia, P.E.
 3. No financial interest letter issued by Chander P. Nangia, P.E., dated 09/08/2013, signed and sealed by Chander P. Nangia, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No 23-0726.02

Expiration Date: December 05, 2028
Approval Date: November 16, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. Evidence submitted under NOA # 18-0918.02

A. DRAWINGS

1. None.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code conformance to the 6th edition (2017) FBC and of no financial interest issued by Chander P. Nangia, P.E., dated 08/29/2018, signed and sealed by Chander P. Nangia, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No 23-0726.02
Expiration Date: December 05, 2028
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. Evidence submitted under NOA # 21-0526.08 and new

A. DRAWINGS

1. Drawing No. **EACA-601D**, titled “EACA-601D”, sheets 1 through 10 of 10, dated 07/07/2023, prepared by Greenheck Fan Corporation, signed and sealed by Robert V. Nangia, P.E. on 09/25/2023.

B. TESTS

1. None.

C. CALCULATIONS

1. Structural load calculations, prepared by Greenheck Fan Corporation, dated 07/19/2023, signed and sealed by Robert V. Nangia, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code conformance to the FBC 2023 (8th edition) and of no financial interest issued by Robert V. Nangia, P.E., dated July 10, 2023, signed and sealed by Robert V. Nangia, P.E.
2. Statement letter of code conformance to the FBC 2020 (7th edition) and of no financial interest issued by Chander P. Nangia, P.E., dated May 15, 2021, signed and sealed by Chander P. Nangia, P.E.

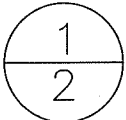
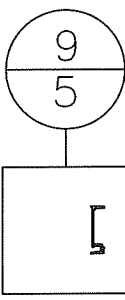
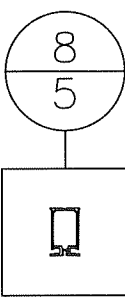
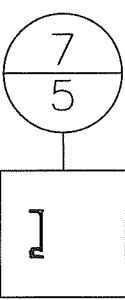
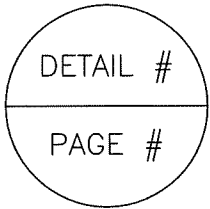


Carlos M. Utrera, P.E.
Product Control Examiner
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Expiration Date: December 05, 2028
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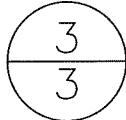
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STAMPING BLOCK

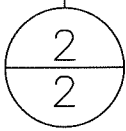
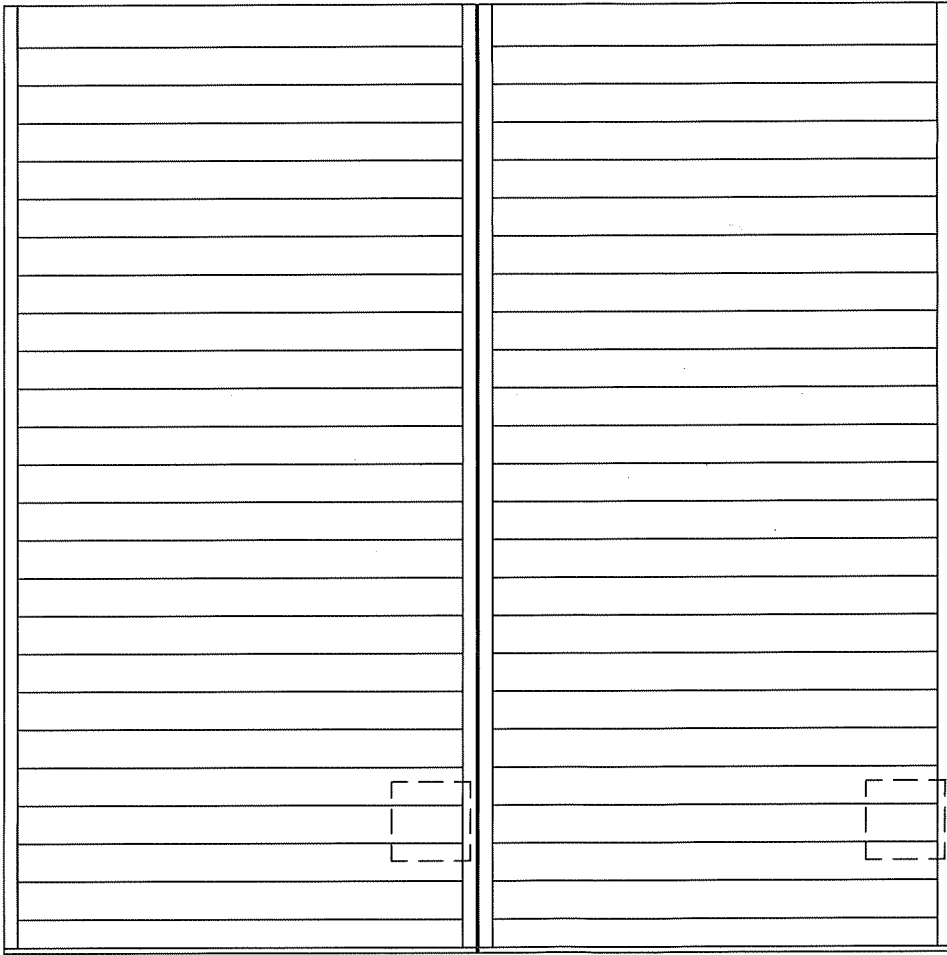
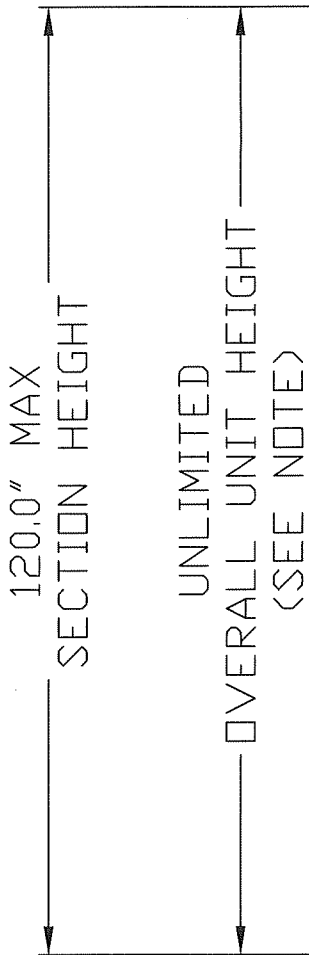
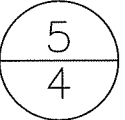
DETAIL CALLOUT (TYPICAL)



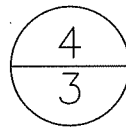
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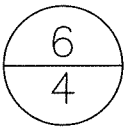
OR



& ALSO



OR



NOTE: SECTIONS MAY BE STACKED VERTICALLY PERMITTING THERE IS SUITABLE LOAD-BEARING STRUCTURE (BY OTHERS) AT THE HEAD/SILL LOCATIONS FOR ATTACHMENT OF THE CONTINUOUS MOUNTING ANGLES.

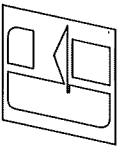
Robert V. Nangia P.E.
7423 Hollow Ridge Drive
Houston, Texas 77095

REVISION 2, 7/7/23: RE-PRINTED ALL PAGES TO ALLOW MORE ROOM FOR STAMPING, UPDATED DRAWINGS DATE ON ALL PAGES, ADDED STAMPING BLOCKS TO ALL PAGES, ADDED COMPANY AND MODEL NAMES TO TITLE BLOCK. ADDED DESIGN PRESSURE, AND ADDED MODEL NAME EQUIVALENTS.

MODEL NAME EQUIVALENTS		
BRAND	GREENHECK	AIROLITE
MODEL	EACA-601D	K8206AMD
DESIGN PRESSURE	+/- 115 PSF	

DRAWN BY	MES	DATE	7/7/23
SCALE			
SHEET NO.	1 OF 10		
CAD DRAWING NO.	EACA-601D		

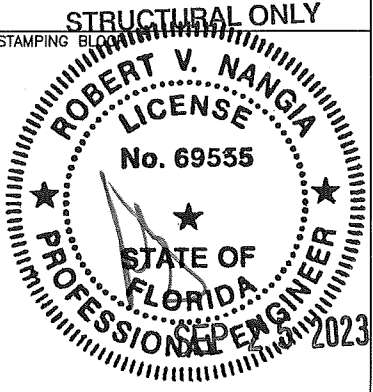
GREENHECK
P.O. BOX 410 SCHOFIELD,
WISCONSIN 54476-0410

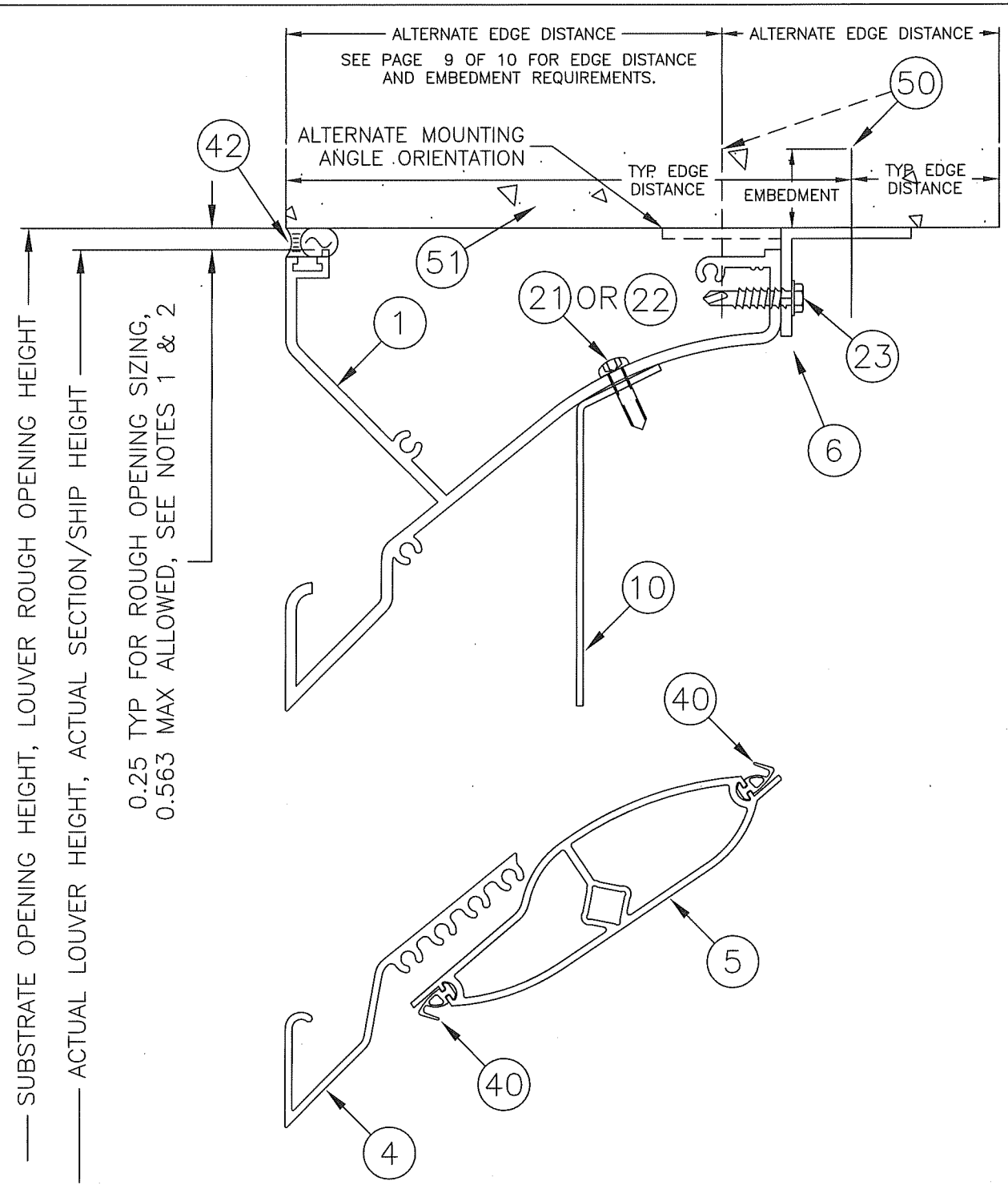


TITLE
GREENHECK EACA-601D
AIROLITE K8206AMD
ELEVATION

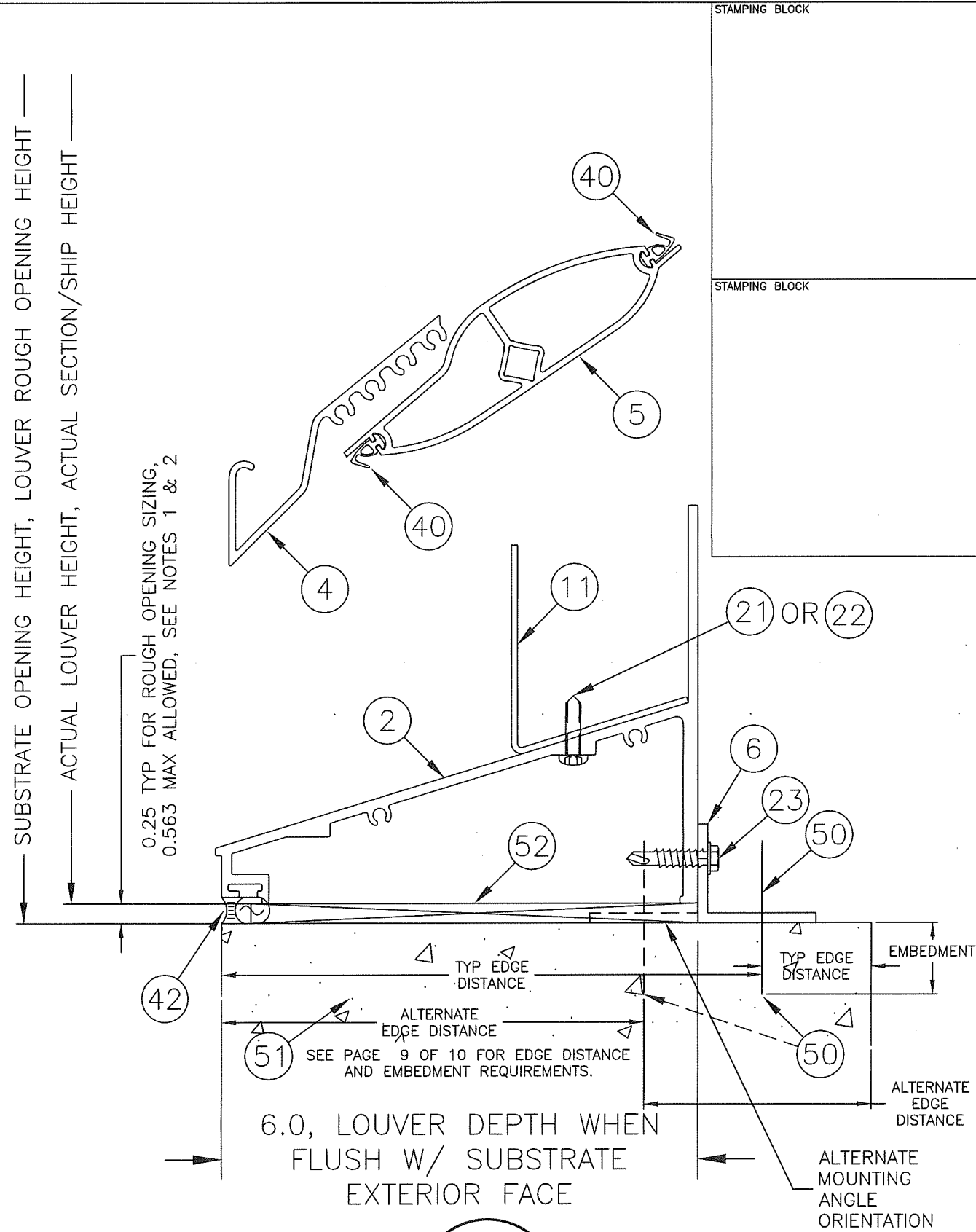
STAMPING BLOCK

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0726.02
Expiration Date 12/05/2028
By
Miami-Dade Product Control





1
2 HEAD DETAIL
SCALE: 1:1.75



2
2 SILL DETAIL
SCALE: 1:1.75

NOTE 1: THE SUM OF THE MINIMUM GAP ALLOCATED TO EACH LOUVER SECTION AT THE JAMBS MUST BE ≥ 0.125 TO ACCOMMODATE POSSIBLE THERMAL MOVEMENT.

NOTE 2: END GAP MUST COMPLY TO SEALANT MANUFACTURE'S JOINT PERFORMANCE RECOMMENDATIONS.

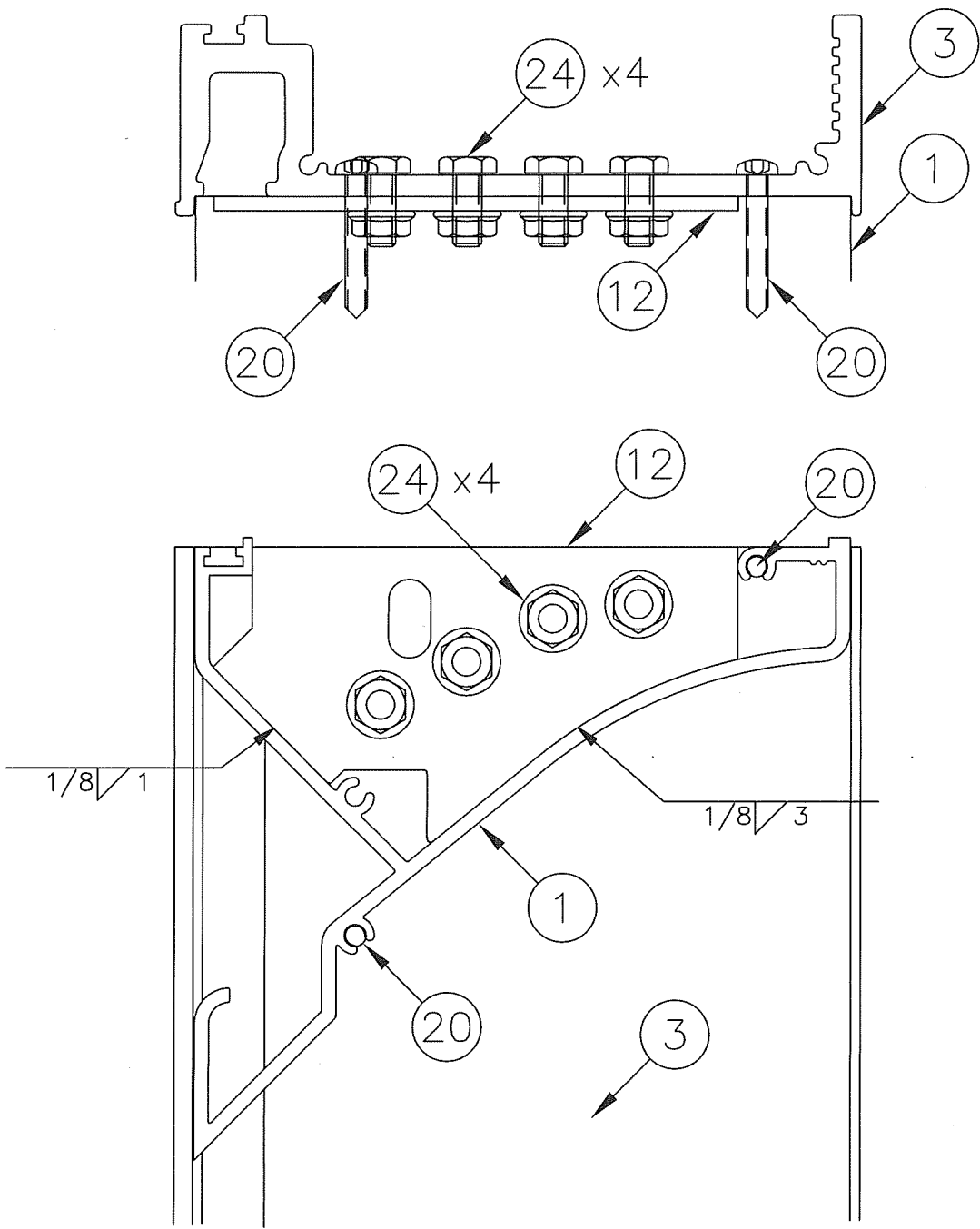
 P.O. BOX 410 SCHOFIELD, WISCONSIN 54476-0410 TITLE GREENHECK EACA-601D AIROLITE K8206AMD HEAD & SILL DETAILS	DRAWN BY MES	DATE 7/7/23
	SCALE	SHEET NO. 2 OF 10
CAD DRAWING NO. EACA-601D		

STAMPING BLOCK PRODUCT REVISED as complying with the Florida Building Code NOA-No. 23-0726.02 Expiration Date 12/05/2028 By Miami-Dade Product Control
STAMPING BLOCK

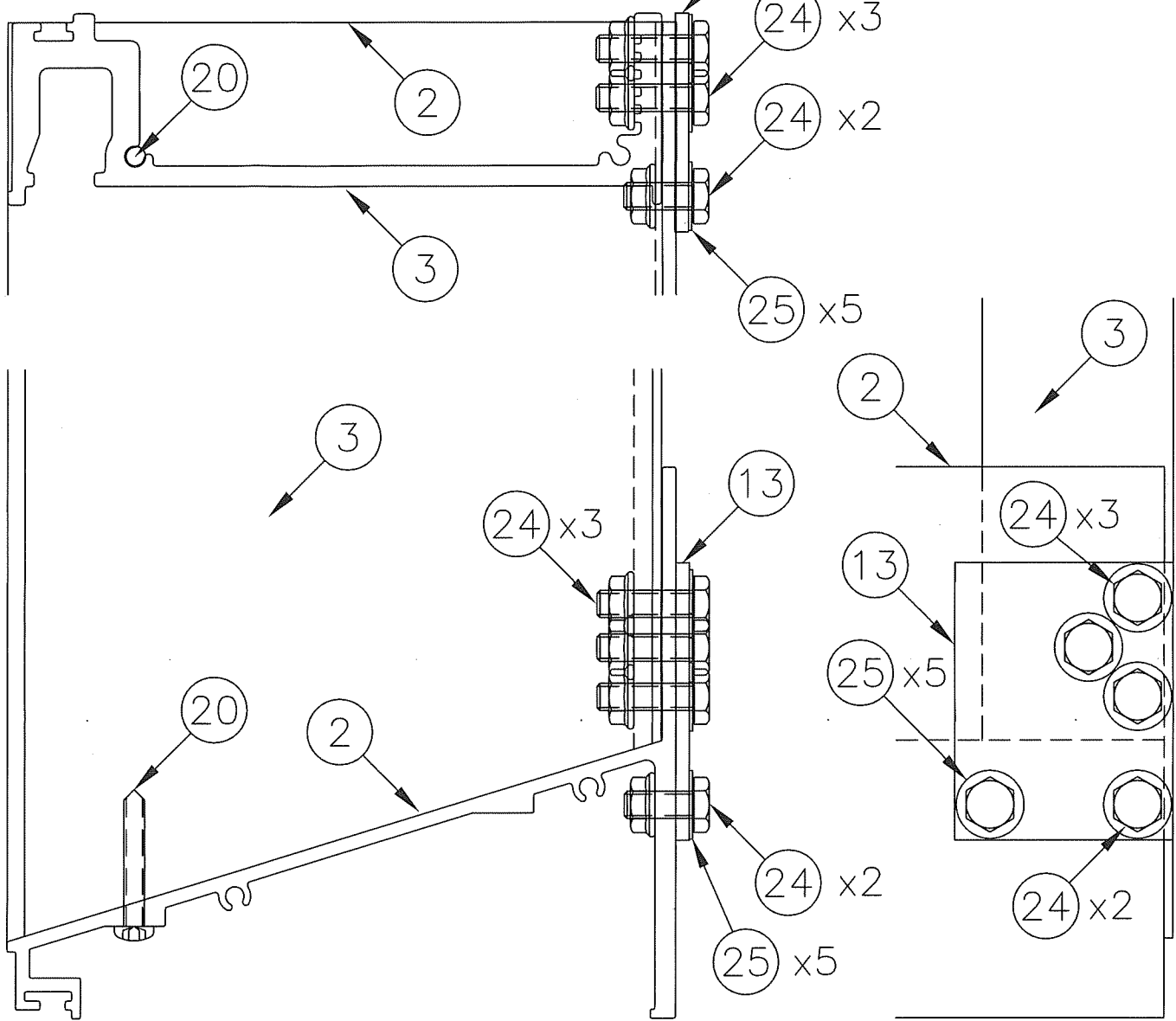
SEP 25 2023

HEAD FASTENERS FOR BOLTED HEAD OPTION:
PLATE WELDED TO HEAD AND PLATE BOLTED TO JAMB

SILL FASTENERS FOR BOLTED SILL OPTION:
PLATE BOLTED TO JAMB AND SILL



3
3
BOLTED HEAD, PROJECTED VIEWS
SCALE: 1:1.5



4
3
BOLTED SILL, PROJECTED VIEWS
SCALE: 1:1.5

DRAWN BY MES	DATE 7/7/23
SCALE	
SHEET NO. 3 OF 10	
CAD DRAWING NO. EACA-601D	

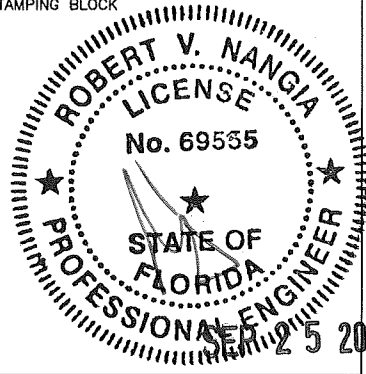
GREENHECK P.O. BOX 410 SCHOFIELD, WISCONSIN 54476-0410	TITLE GREENHECK EACA-601D AIROLITE K8206AMD BOLTED HEAD & SILL SETUP
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STAMPING BLOCK
PRODUCT REVISED as complying with the Florida Building Code NOA-No. 23-0726.02 Expiration Date 12/05/2028 By <i>[Signature]</i> Miami-Dade Product Control

STAMPING BLOCK

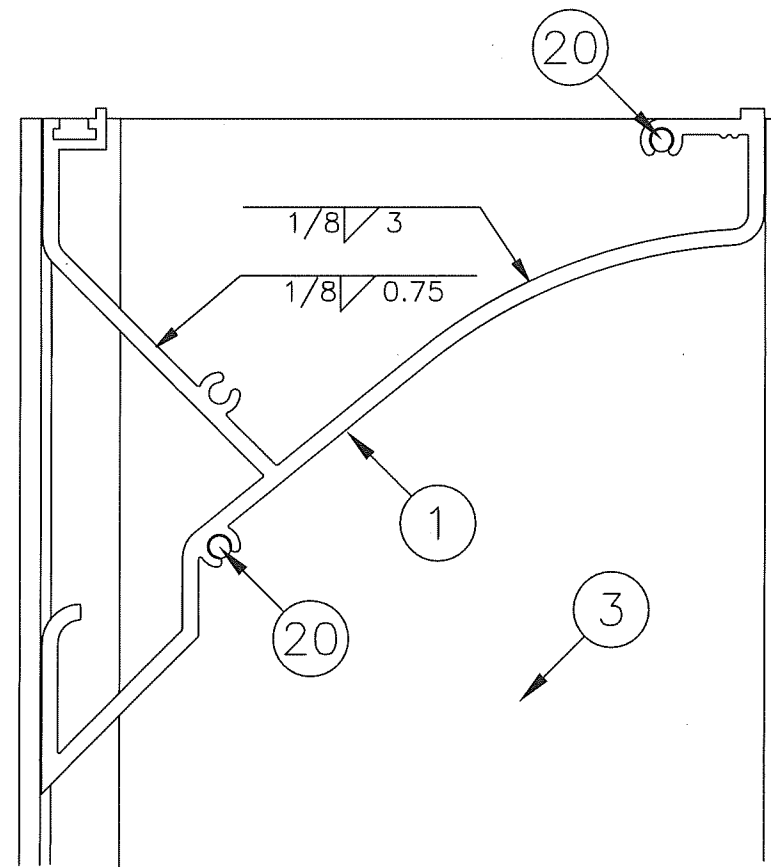
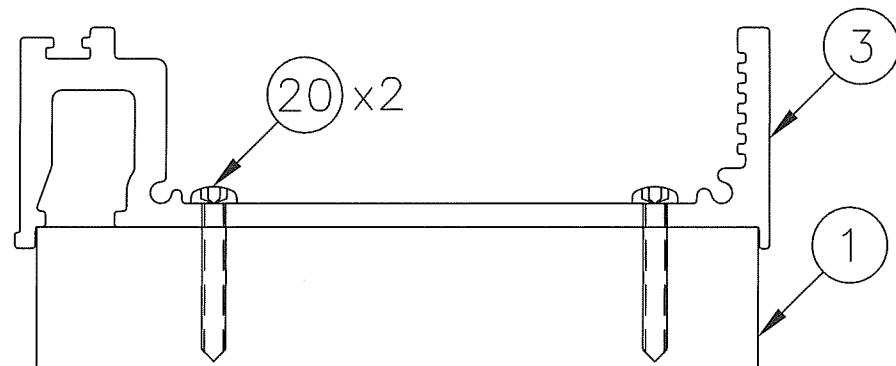
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STAMPING BLOCK



SER 25 2023

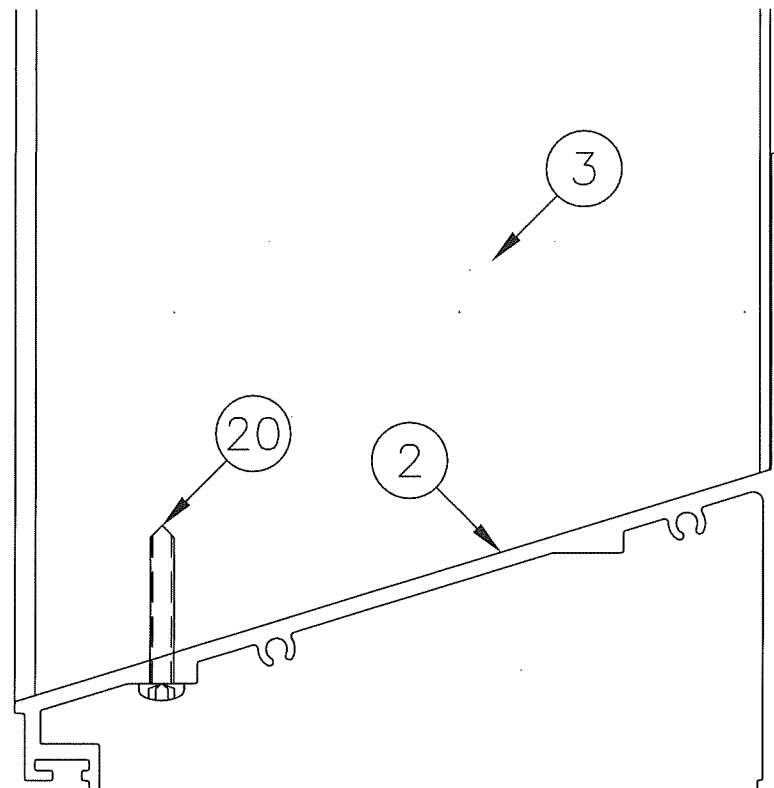
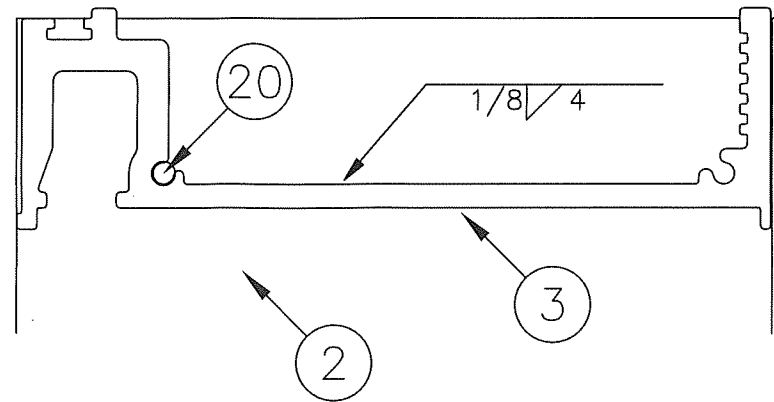
HEAD FASTENERS FOR WELDED HEAD OPTION:
HEAD WELDED DIRECTLY TO JAMB



5
4

WELDED HEAD, PROJECTED VIEWS
SCALE: 1:1.5

SILL FASTENERS FOR WELDED SILL OPTION:
JAMB WELDED DIRECTLY TO SILL



6
4

WELDED SILL, PROJECTED VIEWS
SCALE: 1:1.5

DRAWN BY MES	DATE 7/7/23
SCALE	
SHEET NO. 4 OF 10	
CAD DRAWING NO. EACA-601D	

GREENHECK P.O. BOX 410 SCHOFIELD, WISCONSIN 54476-0410	TITLE GREENHECK EACA-601D AIROLITE K8206AMD WELDED HEAD & SILL SETUP
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STAMPING BLOCK

STAMPING BLOCK

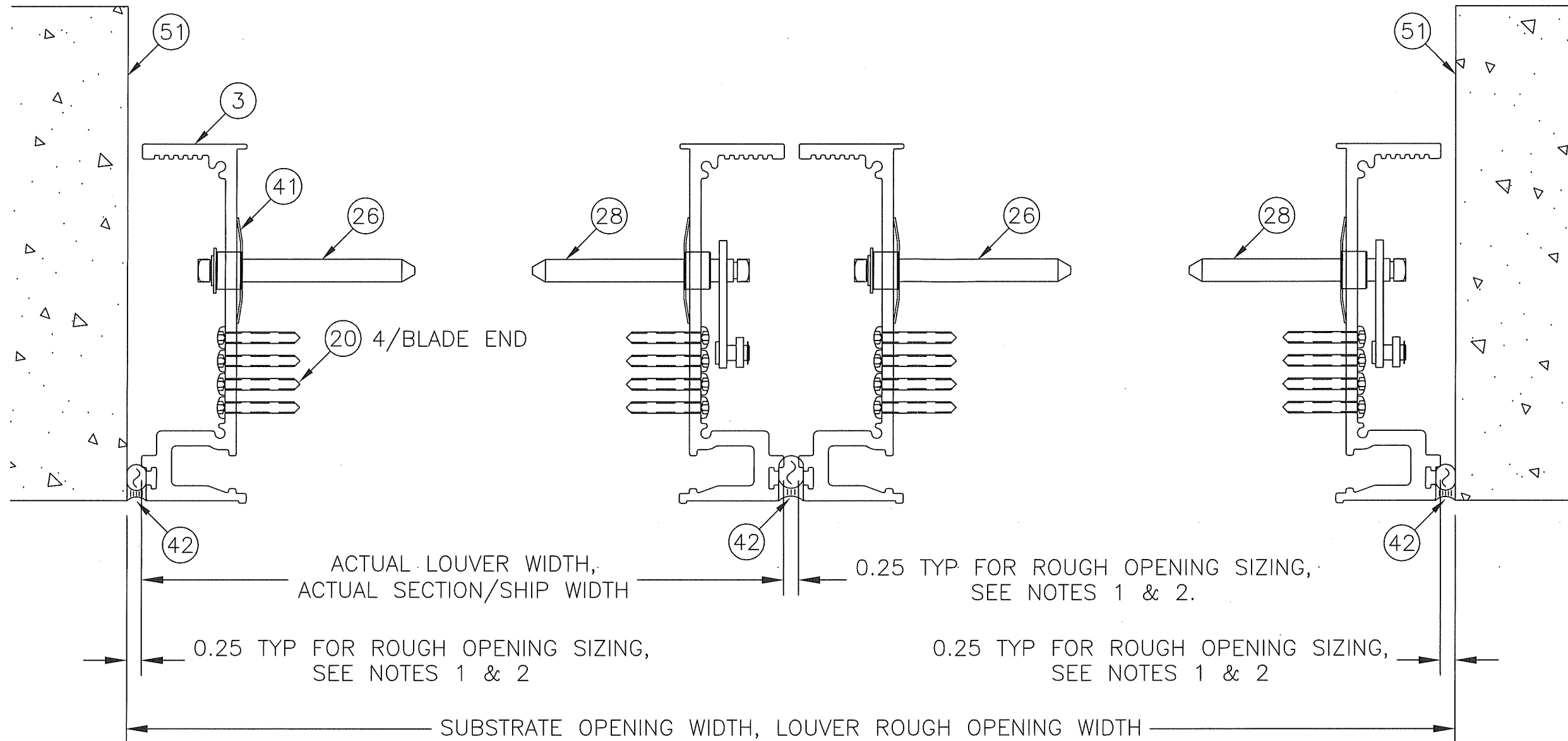
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0726.02
Expiration Date 12/05/2028
By *R. Nangia*
Miami-Dade Product Control

STAMPING BLOCK

STAMPING BLOCK

ROBERT V. NANGIA
LICENSE
No. 69535
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

SEP 25 2023



7
5 JAMB, NON-DRIVE SIDE
SCALE: 1:2

8
5 MULLION
SCALE: 1:2

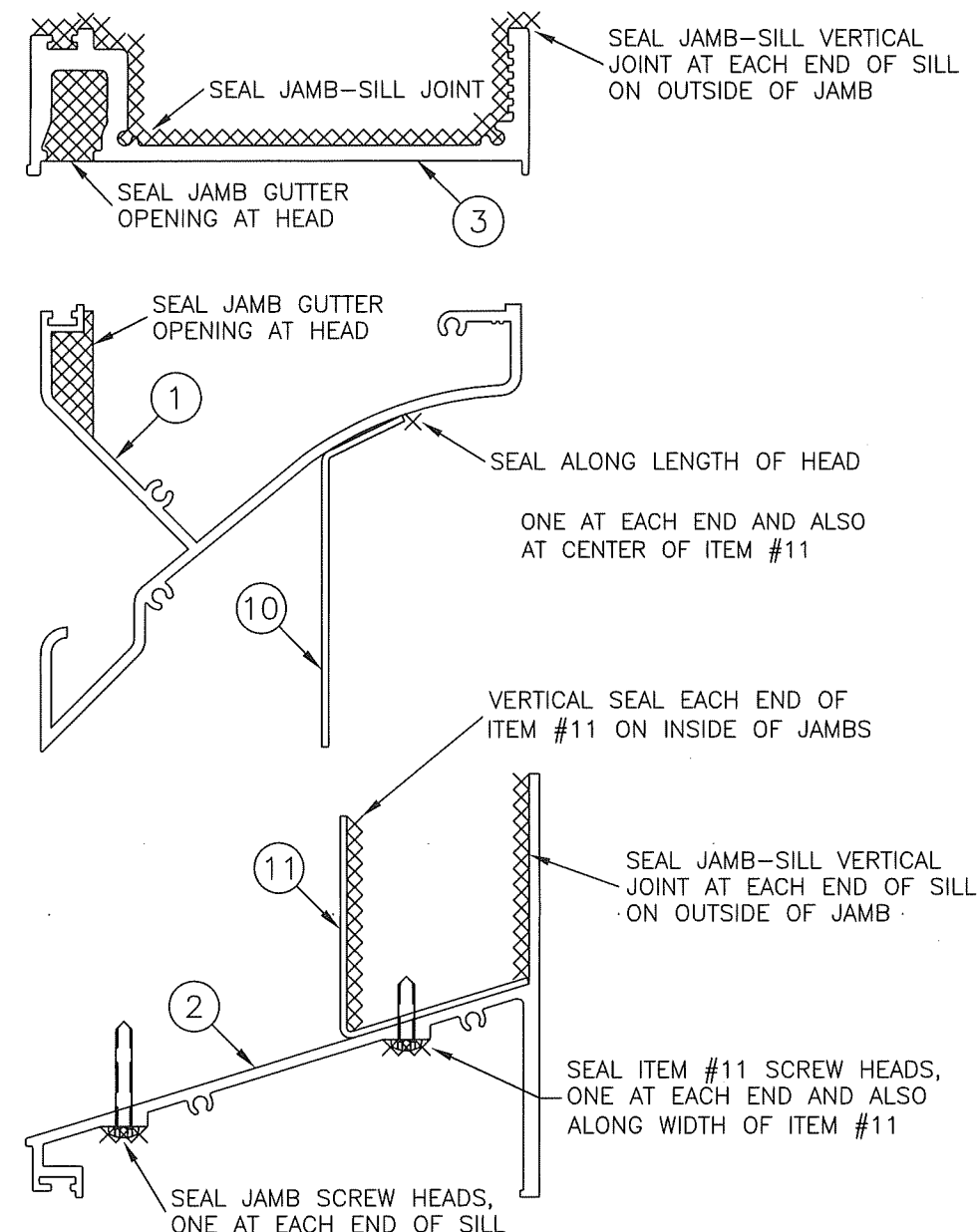
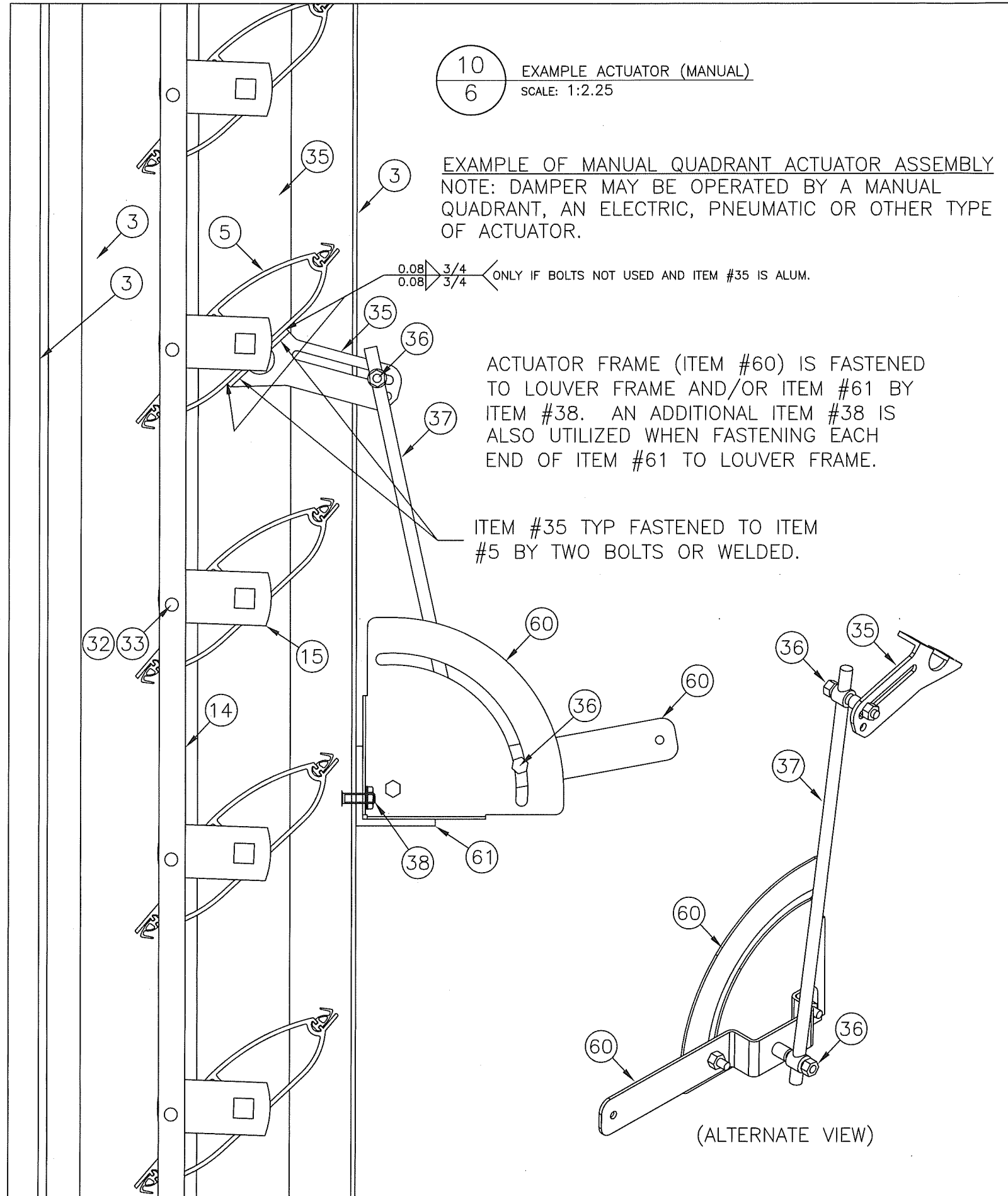
9
5 JAMB, DRIVE SIDE
SCALE: 1:2

NOTE 1: THE SUM OF THE MINIMUM GAP ALLOCATED TO EACH LOUVER SECTION AT THE JAMBS MUST BE ≥ 0.125 TO ACCOMMODATE POSSIBLE THERMAL MOVEMENT.

NOTE 2: END GAP MUST COMPLY TO SEALANT MANUFACTURE'S JOINT PERFORMANCE RECOMMENDATIONS.

STAMPING BLOCK	STAMPING BLOCK	STAMPING BLOCK
<p>PRODUCT REVISED as complying with the Florida Building Code NOA-No. 23-0726.02 Expiration Date 12/05/2028 By <i>[Signature]</i> Miami-Dade Product Control</p>		
<p>STAMPING BLOCK</p> <p>ROBERT V. NANGIA LICENSE No. 69535 STATE OF FLORIDA PROFESSIONAL ENGINEER SEP 25 2023</p>		

<p>GREENHECK P.O. BOX 410 SCHOFIELD, WISCONSIN 54476-0410</p>	DRAWN BY	DATE
	MES	7/7/23
<p>TITLE GREENHECK EACA-601D AIROLITE K8206AMD JAMB AND MULLION DETAILS</p>	SCALE	SHEET NO.
		5 OF 10
	CAD DRAWING NO.	EACA-601D

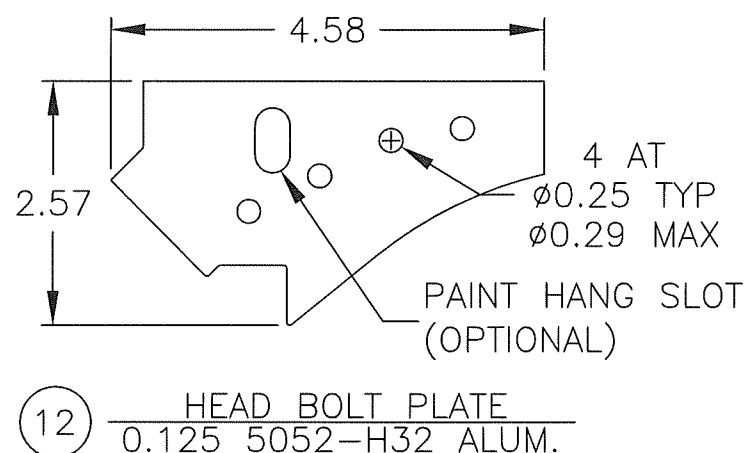
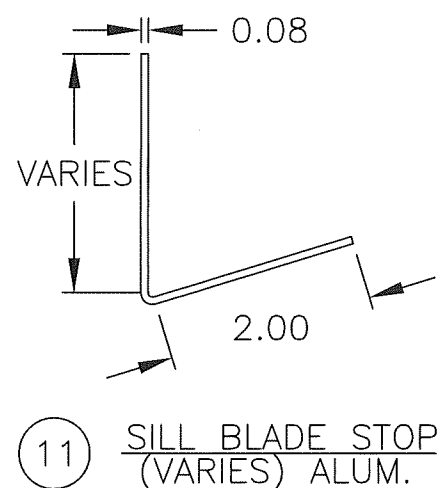
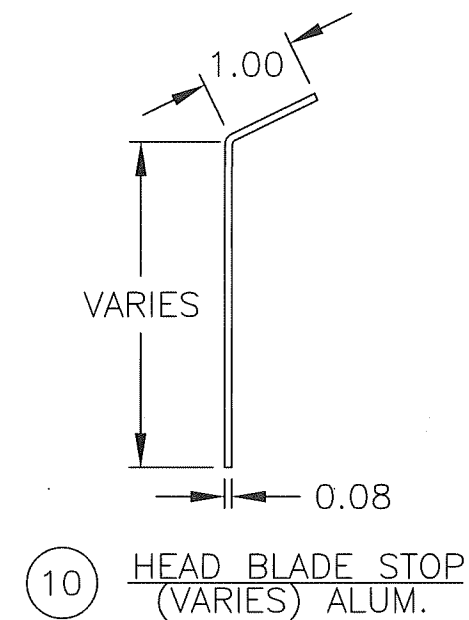
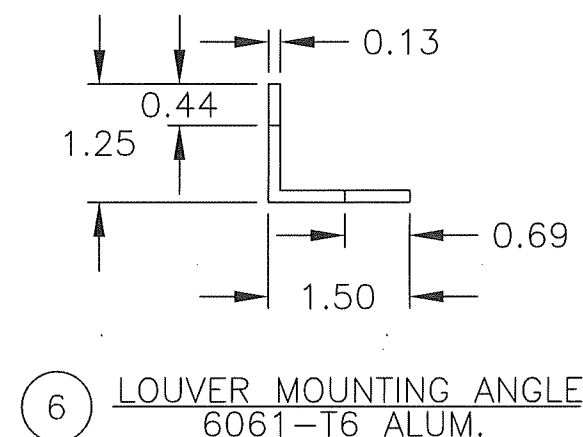
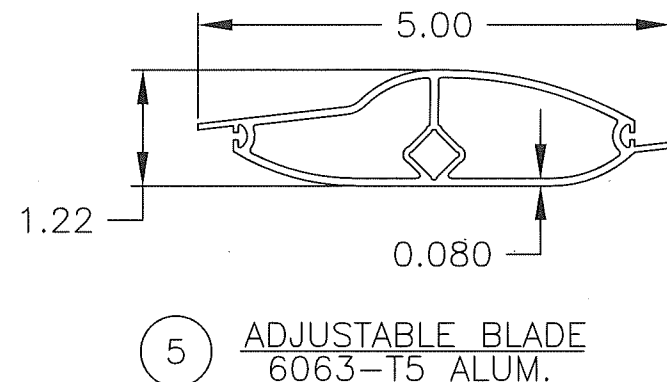
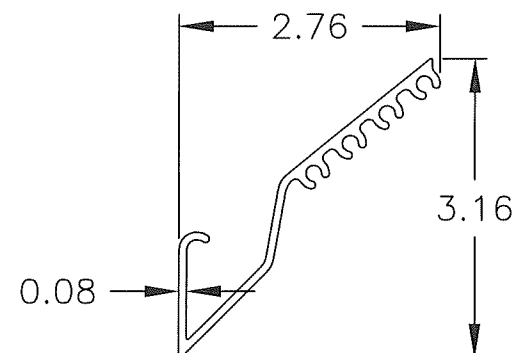
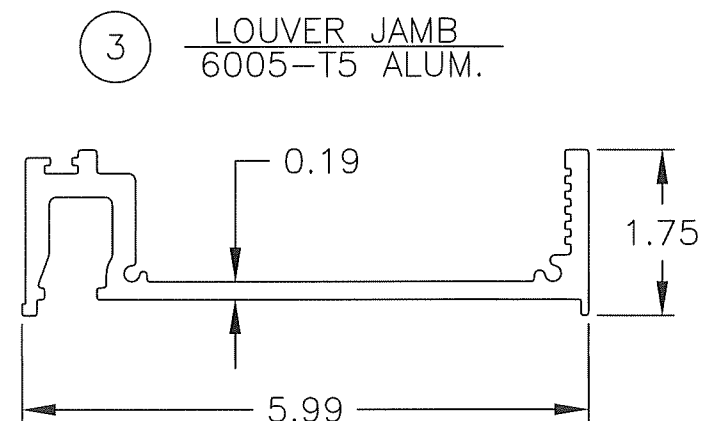
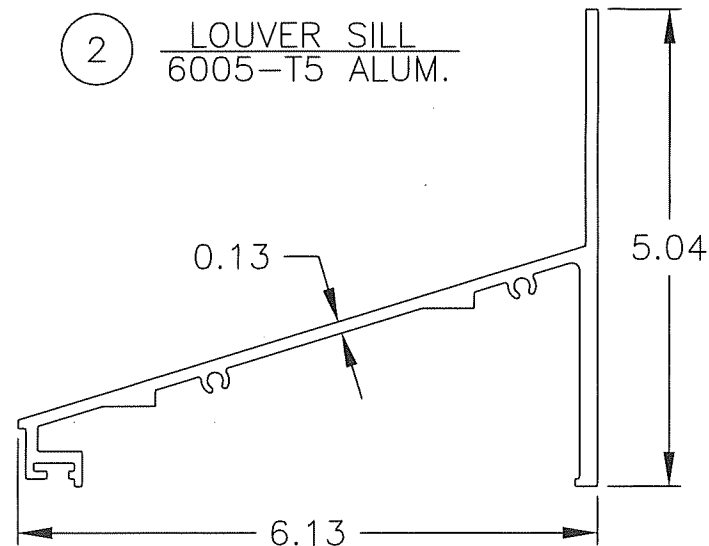
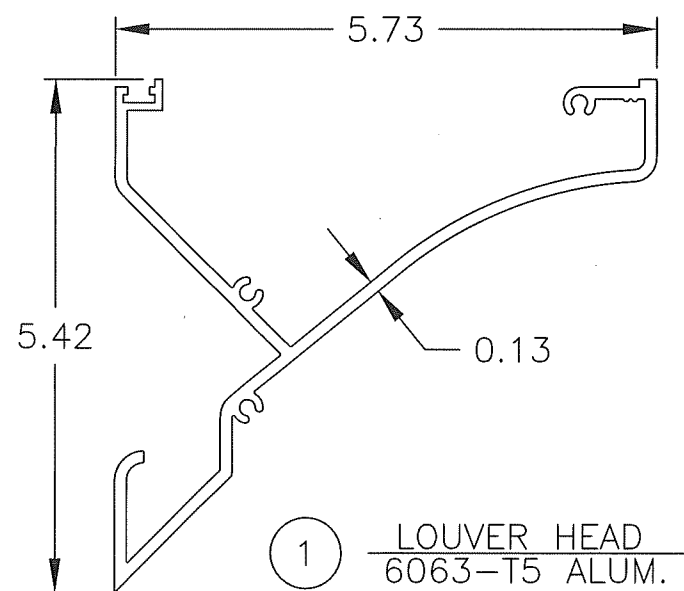


11
6

SEALANT, BY MANUFACTURER
SCALE: 1:2.25

STAMPING BLOCK

DRAWN BY MES	DATE 7/7/23	SHEET NO. 6 OF 10	CAD DRAWING NO. EACA-601D
	SCALE		
GREENHECK P.O. BOX 410 SCHOFIELD, WISCONSIN 54476-0410		TITLE GREENHECK EACA-601D AIROLITE K8206AMD EXAMPLE ACTUATOR & SEALING	
STAMPING BLOCK PRODUCT REVISED as complying with the Florida Building Code NOA-No. 23-0726.02 Expiration Date 12/05/2028 By <i>[Signature]</i> Miami-Dade Product Control			
STAMPING BLOCK		STAMPING BLOCK 	

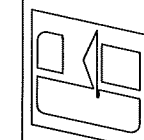


ALL SHOWN DIMENSIONS ARE MINIMUMS
SS = STAINLESS STEEL
PCS = PLATED OR COATED STEEL

REVISION 2, 7/7/23: MOVED ITEMS 13 THRU 15 TO
PAGE 8 TO ALLOW ROOM FOR STAMPING BOXES.

DRAWN BY MES	DATE 7/7/23
SCALE	
SHEET NO. 7 OF 10	
CAD DRAWING NO. EACA-601D	

GREENHECK
P.O. BOX 410 SCHOFIELD,
WISCONSIN 54476-0410



TITLE
GREENHECK EACA-601D
AIROLITE K8206AMD
PART PROFILES

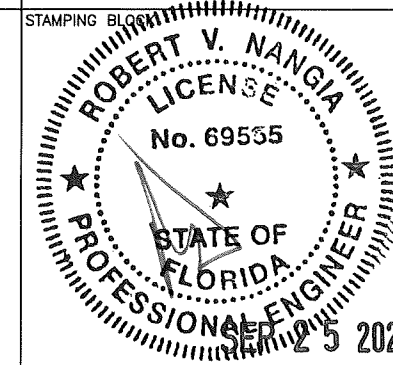
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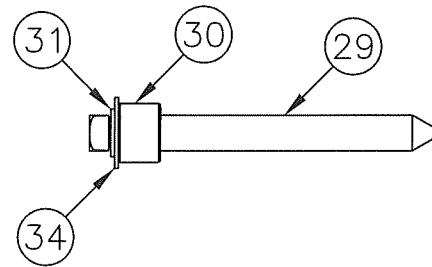
STAMPING BLOCK

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0726.02
Expiration Date 12/05/2028
By *[Signature]*
Miami-Dade Product Control

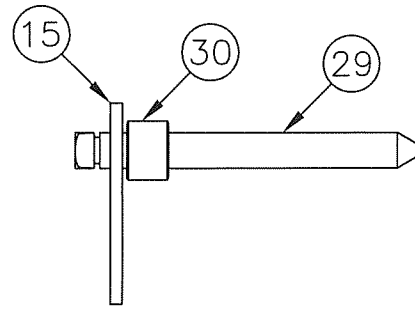
STAMPING BLOCK

STAMPING BLOCK

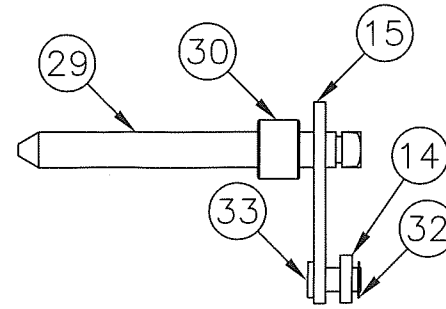




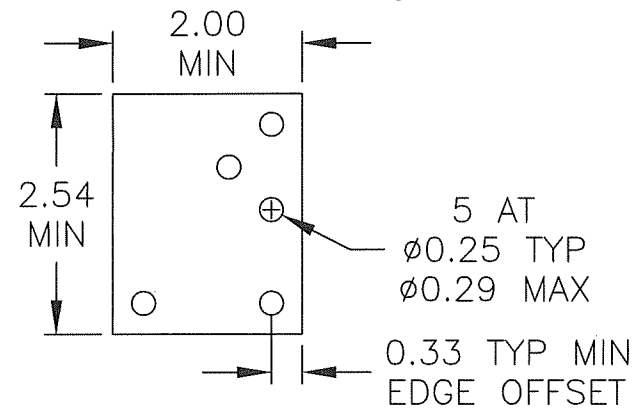
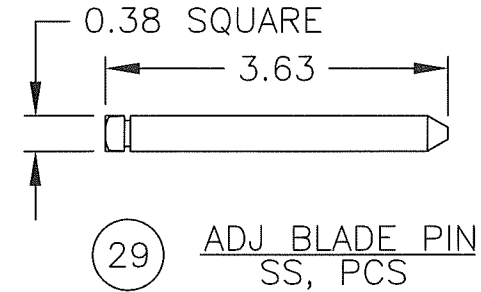
26 NON-DRIVE PIN ASSEMBLY



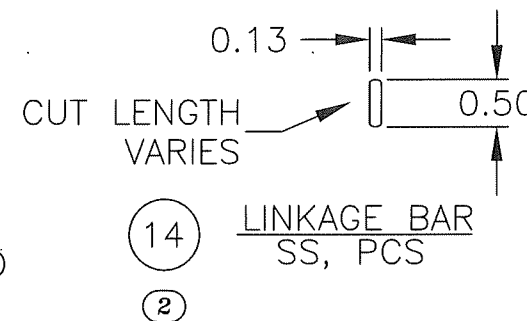
27 NON-DRIVE PIN ASSEMBLY



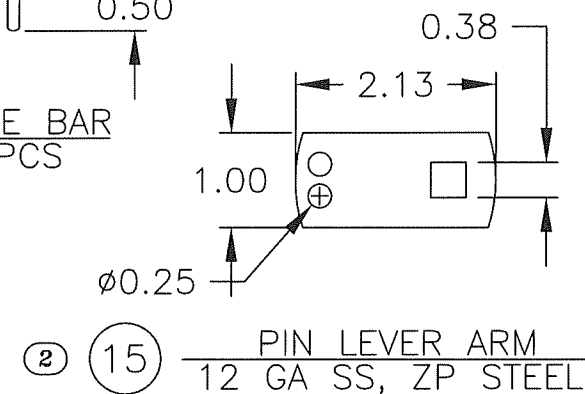
28 DRIVE PIN ASSEMBLY



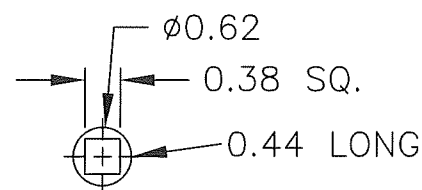
13 SILL BOLT PLATE 0.125 5052-H32 ALUM.



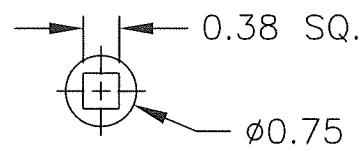
14 LINKAGE BAR SS, PCS



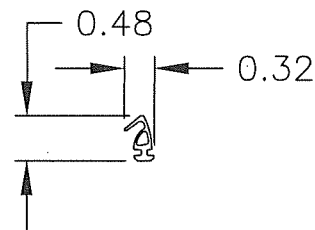
15 PIN LEVER ARM 12 GA SS, ZP STEEL



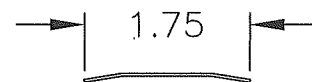
30 PIN BUSHING SS, BRONZE, DELRIN



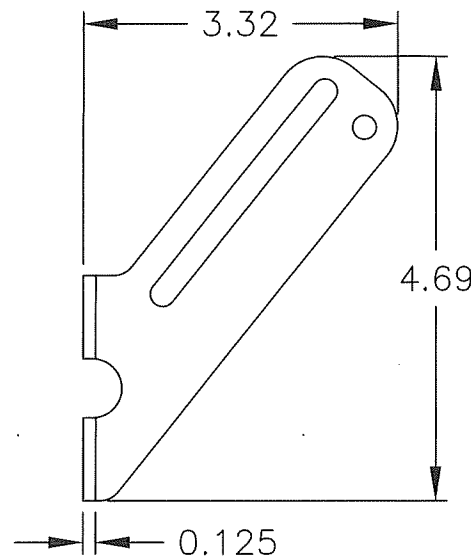
34 SQUARE WASHER 0.04 SS, PCS



40 ADJ. BLADE SEAL VINYL-SILICONE

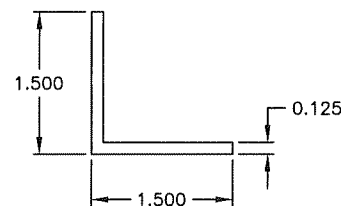


41 JAMB SEAL 0.007 SS



35 ADJUSTABLE BLADE DRIVE LEVER SS, ALUM, PCS

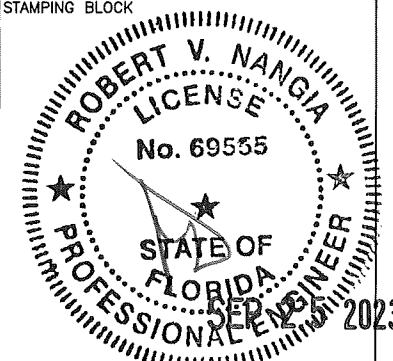
EXACT SIZE/PROFILE DEPENDS ON ACTUATOR SETUP SELECTED



61 ACTUATOR MTG. ANGLE (OPTIONAL) (SIZE AND MAT'L TYPE VARIES) ALUM.

ALL SHOWN DIMENSIONS ARE MINIMUMS
PCS = PLATED OR COATED STEEL
SS = STAINLESS STEEL

REVISION 2, 7/7/23: MOVED ITEMS 13 THRU 15 TO THIS PAGE.

DRAWN BY MES	DATE 7/7/23	SHEET NO. 8 OF 10	CAD DRAWING NO. EACA-601D
	SCALE		
GREENHECK P.O. BOX 410 SCHOFIELD, WISCONSIN 54476-0410		TITLE GREENHECK EACA-601D AIROLITE K8206AMD PART PROFILES (CON.) & SUBSTRATE FASTENER TABLE	
STAMPING BLOCK		PRODUCT REVISED as complying with the Florida Building Code NOA-No. 23-0726.02 Expiration Date 12/05/2028 By <i>[Signature]</i> Miami-Dade Product Control	
STAMPING BLOCK		STAMPING BLOCK 	

3/8" HILTI ANCHOR TABLE					2
FASTENER NUMBER	50A				
SUBSTRATE	CONCRETE (CRACKED), NORMAL WEIGHT, MIN 6" DEEP				
MINIMUM	2.5 KSI	3 KSI		2.5 KSI	
EDGE DISTANCE (MIN)	2 IN	1.82 IN	1.75 IN	2.5 IN	
DESCRIPTION	3/8" HILTI SCREW ANCHOR, KWIK HUS-EZ (KH-EZ), SS316			3/8" HILTI WEDGE ANCHOR, KWIK BOLT T22 (KB-T22), SS304 OR SS316	
PURCHASE INFO	KH-EZ SS316 3/8"x3" (4" LENGTH RQD. IF SHIM > 0.375 IS USED UNDER MOUNTING ANGLE)		KH-EZ SS316 3/8"x4"	KB-T22 SS304 3/8"x5" OR KB-T22 SS316 3/8"x5"	
PENETRATION (MIN)	2.5 NOM		3.25 NOM	2.5 NOM, 2.0 EFF	
LOUVER HEIGHT (IN)	SPACING (IN)			SPACING (IN)	
≤ 120	MIN 6, MAX 6		MIN 6, MAX 6	MIN 8, MAX 8	
≤ 95			MIN 6, MAX 8		
≤ 90					

LAG SCREW, SCREW, & BOLT W/NUT ANCHOR TABLE					
FASTENER NUMBER	50C	50D	50E		
SUBSTRATE	WOOD		STEEL		ALUMINUM
DESCRIPTION ②	1/4" LAG SCREW 300 SS	3/8" LAG SCREW 300 SS	1/4"-20 SCREW OR BOLT W/NUT 300 SS		
MINIMUM	G ≥ 0.42		A36 STEEL OR Fy ≥36 KSI		STRESSES ≥ 6063-T5
EDGE DISTANCE (MIN)	1 IN	1-1/2 IN	1/2 IN		1/2 IN
CORNER DISTANCE (MIN)	1 IN	1-1/2 IN	1/2 IN		1/2 IN
PENETRATION (MIN)	2-3/4 IN, PURCHASE LENGTH SHALL BE ≥ (2.875 + ANY SHIM THICKNESS UNDER MOUNTING ANGLE)		16 GA (0.06 IN)	3/16 IN	16 GA (0.06 IN)
LOUVER HEIGHT (IN)	SPACING (IN) ②		SPACING (IN) ②		SPACING (IN)
≤ 120	MIN 4, MAX 4	MIN 6, MAX 6	MIN 4, MAX 4	MIN 6, MAX 6	MIN 4, MAX 4
≤ 96		MIN 6, MAX 8	MIN 4, MAX 6		MIN 4, MAX 6
≤ 84					
≤ 72	MIN 4, MAX 6				

1/4" TAPCON SCREW ANCHOR TABLE				
FASTENER NUMBER		50B		
SUBSTRATE ②		CONCRETE (UNCRACKED) MIN 6" DEEP, OR CONCRETE MASONRY (CMU) MIN 8" DEEP		
DESCRIPTION ②		1/4" TAPCON SCREW, 410 SS W/ CLIMASHIELD OR STEEL W/ ULTRASHIELD/CLIMASHIELD/CLIMASEAL		
MINIMUM		CONCRETE: 3 KSI ACI 301 CONCRETE CMU: ASTM C90, 3 KSI GROUT FILLED, LIGHT-WIGHT ≥ 95 PCF, MEDIUM-WEIGHT ≥ 117 PCF		
EDGE DISTANCE (MIN)		1 IN	1-1/2 IN	2-1/2 IN
SLAB/BLOCK CORNER DISTANCE (MIN)		1 IN	1-1/2 IN	2-1/2 IN
PENETRATION (MIN)		1-3/4 IN, PURCHASE LENGTH SHALL BE ≥ (1.875 + ANY SHIM THICKNESS UNDER MOUNTING ANGLE) ②		
LOUVER HEIGHT (IN)		SPACING (IN) ②		
CONCRETE ≤ 120	NOT ALLOWED	NOT ALLOWED	NOT ALLOWED	
CONCRETE ≤ 98			MIN 4, MAX 4	
CONCRETE ≤ 70		MIN 4, MAX 4	MIN 4, MAX 6	
CONCRETE ≤ 66				
CONCRETE ≤ 54	MIN 4, MAX 4	MIN 4, MAX 6	MIN 4, MAX 6	
CONCRETE ≤ 46	MIN 4, MAX 6			
CONCRETE ≤ 36	MIN 4, MAX 6			
CMU ≤ 120	NOT ALLOWED	NOT ALLOWED	NOT ALLOWED	
CMU ≤ 88			MIN 4, MAX 4	
CMU ≤ 62		MIN 4, MAX 4	MIN 4, MAX 6	
CMU ≤ 58				
CMU ≤ 48	MIN 4, MAX 4	MIN 4, MAX 6	MIN 4, MAX 6	
CMU ≤ 42	MIN 4, MAX 6			
CMU ≤ 32	MIN 4, MAX 6			

CONTINUOUS ANGLE TO LOUVER FRAME SCREW

FASTENER NUMBER	23
LOUVER HEIGHT (IN)	MAXIMUM SPACING (IN)
≤ 120	3.75
≤ 108	4

REVISION 2, 7/7/23: ITEM 50A TABLE WAS UPDATED FROM A 3/8 POWERS WEDGE BOLT ANCHOR TO 3/8 HILTI ANCHORS, CLARIFIED SUBSTRATE REQUIREMENTS OF ITEM 50B, ADDED ALLOY AND COATING REQUIREMENTS OF ITEM 50B, ADDED PURCHASE INFORMATION TO ITEM 50B, ADJUSTED AND CLARIFIED SPACING MIN AND MAX OF ITEM 50B, ADDED ALLOY TO ITEMS 50C THRU 50E, CLARIFIED SPACING MIN AND MAX OF ITEMS 50C THRU 50E, REFORMATTED ITEM 23 TABLE, AND REMOVED ASTERISK NOTE.

DRAWN BY
MES

DATE
7/7/23

SCALE

SHEET NO.
9 OF 10

CAD DRAWING NO.
EACA-601D


P.O. BOX 410 SCHOFIELD,
WISCONSIN 54476-0410



TITLE
GREENHECK EACA-601D
AIROLITE K8206AMD
FASTENER TABLES

STAMPING BLOCK

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0726.02
Expiration Date 12/05/2028
By 
Miami-Dade Product Control



STAMPING BLOCK

STAMPING BLOCK

ITEM				DESCRIPTION				MATERIAL				NOTES			
1	LOUVER HEAD			ALUM											
2	LOUVER SILL			ALUM											
3	LOUVER JAMB			ALUM											
4	LOUVER FIXED BLADE			ALUM								4.8" SPACING			
5	LOUVER ADJUSTABLE BLADE			ALUM								4.8" SPACING			
6	LOUVER MOUNTING ANGLE, CONTINUOUS			ALUM								AT HEAD & SILL ONLY			
10	HEAD BLADE STOP			ALUM											
11	SILL BLADE STOP			ALUM											
12	HEAD BOLT PLATE			ALUM								NOT REQUIRED IF HEAD IS WELDED DIRECTLY TO JAMB			
13	SILL BOLT PLATE			ALUM								NOT REQUIRED IF SILL IS WELDED DIRECTLY TO JAMB			
14	LINKAGE BAR			SS/PCS											
15	PIN LEVER ARM			SS/PCS								CRIMPED TO PIN			
20	#10 x 1.25 MIN SCREW			SS/PCS											
21	#10 x 3/4 MIN SCREW, 4" MAX END DISTANCE			SS/PCS								24" MAX O.C. ALONG BLADE STOP			
22	1/8 MIN DIA. RIVET, 4" MAX END DISTANCE			SS/ALUM/PC								24" MAX O.C. ALONG BLADE STOP			
23	1/4-20 x 1 SCREW, 4" MAX END DISTANCE			SS/PCS								SEE FASTENER TABLE			
24A	1/4-20 x 5/8 LONG MIN BOLT W/ FLANGE NUT			SS/PCS								AT HEAD AND UNDER SLOPED SILL			
24B	1/4-20 x 7/8 LONG MIN BOLT W/ FLANGE NUT			SS/PCS								AT SILL ABOVE SLOPED SILL			
25	0.04 x 1/4 x 5/8 WASHER			SS/PCS											
26	NON-DRIVE PIN ASSEMBLY			VARIOUS											
27	NON-DRIVE PIN ASSEMBLY			VARIOUS								ALLOWED TO REPLACE ITEM 26			
28	DRIVE PIN ASSEMBLY			VARIOUS								ALLOWED TO REPLACE ITEM 26			
29	ADJUSTABLE BLADE PIN			SS/PCS											
30	PIN BUSHING			SS/BRONZE/DELRIN											
31	1/4 E-CLIP			SS/PCS											
32	7/32 E-CLIP			SS/PCS											
33	1/4 x 0.5 KNURL PIN			SS/PCS								PRESS FIT INTO PIN LEVER ARM			
34	0.04 x 3/8 SQUARE x 3/4 WASHER			SS/PCS											
35	ADJUSTABLE BLADE DRIVE LEVER			SS/ALUM/PCS											
36	1/4-20 x 9/16 BALL SWIVEL W/ NUT			SS/PCS											
37	5/16 DIA. LINKAGE ROD			SS/PCS											
38	#10-32 x 5/8 THREAD STUD W/ NUT			SS/PCS											
40	ADJUSTABLE BLADE SEAL			VINYL/SILICONE											
41	JAMB SEAL			SS											
42	SEALANT AND BACKER ROD			VARIES								NOT BY MANUFACTURER			
50A	3/8 HILTI SCREW OR WEDGE ANCHOR		②	SS		②						SEE ANCHOR TABLE			
50B	1/4 TAPCON, BY OTHERS			SS/PCS								SEE ANCHOR TABLE			
50C	1/4 LAG SCREW, BY OTHERS			SS		②						SEE ANCHOR TABLE			
50D	3/8 LAG SCREW, BY OTHERS			SS		②						SEE ANCHOR TABLE			
50E	1/4-20 SCREW OR BOLT W/NUT, BY OTHERS			SS		②						SEE ANCHOR TABLE			
51A	CONCRETE, 2.5 OR 3 KSI, BY OTHERS		②	CONCRETE								SEE ANCHOR TABLE			
51B	CMU, 3 KSI GROUT FILLED, BY OTHERS		②	CONCRETE								SEE ANCHOR TABLE			
51C	STRUCTURAL STEEL, 3/16 36 KSI, BY OTHERS			STEEL								SEE ANCHOR TABLE			
51D	STEEL STUD, 16 GA FY 36 KSI, BY OTHERS			STEEL								SEE ANCHOR TABLE			
51E	WOOD, G 0.42, BY OTHERS			WOOD								SEE ANCHOR TABLE			
51F	ALUMINUM, 1/8 6063-T5, BY OTHERS			ALUM								SEE ANCHOR TABLE			
52	INCOMPRESSIBLE SHIM, OPTIONAL, AS REQUIRED			VARIES								BY OTHERS			
60	ACTUATOR, COMPONENTS VARY AMONG TYPES			VARIES								TYPE VARIES, NOT ALWAYS BY MANUFACTURER			
61	ACTUATOR MOUNTING ANGLE (MAY OR MAY NOT BE REQUIRED BASED ON ACTUATOR MOUNT TYPE)			ALUM								BY MANUFACTURER WHEN MANUFACTURER MOUNTS ACTUATOR			
				GENERAL NOTES:				1. IT SHALL BE THE RESPONSIBILITY OF THE PERMIT HOLDER TO VERIFY THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE TO SUPPORT THE LOADS IMPOSED BY THE LOUVER ASSEMBLY.				2. THIS LOUVER HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH MIAMI-DADE COUNTY PROTOCOLS [AND QUALIFIED IN ACCORDANCE WITH THE CURRENT FLORIDA BUILDING CODE (FBC) AND TEST PROTOCOLS/STANDARDS]: TAS-201 (LARGE MISSILE IMPACT TEST), TAS-202 (UNIFORM STATIC WIND PRESSURE TEST), TAS-203 (UNIFORM CYCLIC WIND PRESSURE TEST), & AMCA STANDARD 550-09 (HIGH VELOCITY WIND-DRIVEN RAIN TEST).			
				3. THIS LOUVER HAS BEEN DESIGNED, TESTED, AND APPROVED TO WITHSTAND DESIGN PRESSURES OF UP TO AND INCLUDING +/-110 PSF (ASD). ②				4. THE LOUVER MAY BE INSTALLED IN A LOCATION WHERE THE ROOM BEHIND THE LOUVER IS NOT DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM OR THE ROOM WILL HOUSE NON-WATER RESISTANT OR NON-WATER PROOF EQUIPMENT, COMPONENTS, OR SUPPLIES.				5. THE MAXIMUM SINGLE SECTION SIZE IS 60" WIDE BY 120" HIGH. THE MAXIMUM OVERALL/ASSEMBLED SIZE IS UNLIMITED WIDE (BY USE OF MULTIPLE SECTIONS OF 60" WIDE OR LESS) BY 120" HIGH. SECTIONS/ASSEMBLIES MAY BE STACKED VERTICALLY PROVIDED THERE IS SUITABLE STRUCTURAL SUPPORT (DESIGNED AND INSTALLED BY OTHERS) TO SUPPORT ALL LOADS TRANSFERRED FROM THE LOUVER HEAD AND/OR SILL TO THE SUBSTRATE.			
				6. WOOD SUBSTRATE SHALL HAVE SPECIFIC GRAVITY (G) ≥ 0.42. STEEL STUD SUBSTRATE SHALL BE MIN 16 GA, FY ≥ 36 KSI. STRUCTURAL STEEL SUBSTRATE SHALL BE MIN 3/16" THICK, FY ≥ 36 KSI. CONCRETE SUBSTRATE SHALL BE RATED ≥ 2.5 KSI OR ≥ 3 KSI AS REQUIRED BASED ON FASTENER TYPE USED. CONCRETE MASONRY (CMU) SHALL BE ≥ THE FOLLOWING: 6" DEEP, GRADE II, TYPE II, LIGHT/MEDIUM/NORMAL-WEIGHT CMU CONFORMING TO ASTM C90, AND 3 KSI GROUT-FILLED. ALUMINUM SUBSTRATE SHALL BE MIN 1/8" THICK, WITH ALLOWABLE STRESSES ≥ THAT OF 6063-T5. ②				7. LOUVER CONSTRUCTION: HEAD, SILL, JAMBS, AND BLADES ARE SQUARE CUT AT BOTH ENDS. FIXED AND ADJUSTABLE BLADE SPACING IS 4.8". FIXED BLADES ARE SECURED TO THE JAMBS WITH (4) SCREWS PER BLADE END. ADJUSTABLE BLADES ARE SECURED TO THE JAMBS WITH (1) PIN PER BLADE END. EACH JAMB IS SECURED TO THE SILL WITH (1) SCREW AND TO THE HEAD WITH (2) SCREWS. THE HEAD IS ALSO EACH JAMB IS SECURED TO THE SILL WITH (1) SCREW AND TO THE HEAD WITH (2) SCREWS. THE HEAD IS ALSO SECURED TO THE JAMB WITH (4) BOLTS PER HEAD END OR WELDED DIRECTLY TO THE JAMBS. THE SILL IS ALSO SECURED TO THE JAMB WITH (3) BOLTS PER SILL END OR WELDED DIRECTLY TO THE JAMBS.				8. INSTALLER TO PROVIDE SEPARATION OF DISSIMILAR MATERIALS AS REQUIRED PER FBC.			
				9. ALL STAINLESS STEEL AND PLATED/COATED STEEL PARTS PROVIDED BY MANUFACTURER ARE INHERENTLY CORROSION RESISTANT OR HAVE A CORROSION RESISTANT COATING.				10. STEEL, STAINLESS STEEL, & ALUMINUM PARTS MAY BE MADE OUT OF ALTERNATE ALLOY THAT HAS ≥ YIELD STRENGTH.				ITEM TABLE NOTES: PCS = PLATED OR COATED STEEL. SS = STAINLESS STEEL. ALL SHOWN "DESCRIPTION" DIMENSIONS ARE MINIMUMS. FLANGE NUT ALLOWED TO BE REPLACED WITH A STANDARD NUT AND WASHER.			
				REVISION 2, 7/7/23: ADDED ASD TO NOTE 3, CONSOLIDATED OLD NOTES 6-11 INTO A SINGLE NOTE 6 AND RENUMBERED, CONCRETE MIN NOW 2.5 FOR NOTE 6 & ITEM 51A, REMOVED 1.5 FROM NOTE 6 CMU & ITEM 51B, ITEMS 50A & 50C-50E NOW ONLY SS, AND UPDATED ITEM 50A TO HILTI BRAND.											
				DRAWN BY MES				DATE 7/7/23				SCALE			
				SHEET NO.				10 OF 10				CAD DRAWING NO.			
				EACA-601D											
				GREENHECK				P.O. BOX 410 SCHOFIELD, WISCONSIN 54476-0410				TITLE GREENHECK EACA-601D			
				AIROLITE K8206AMD				NOTES							