

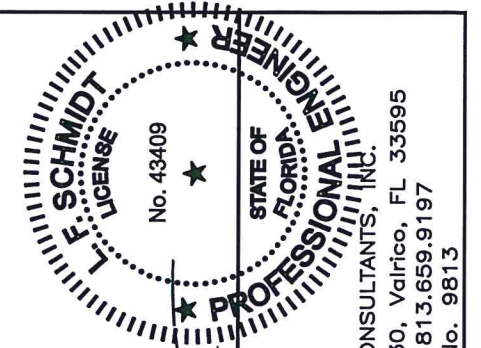
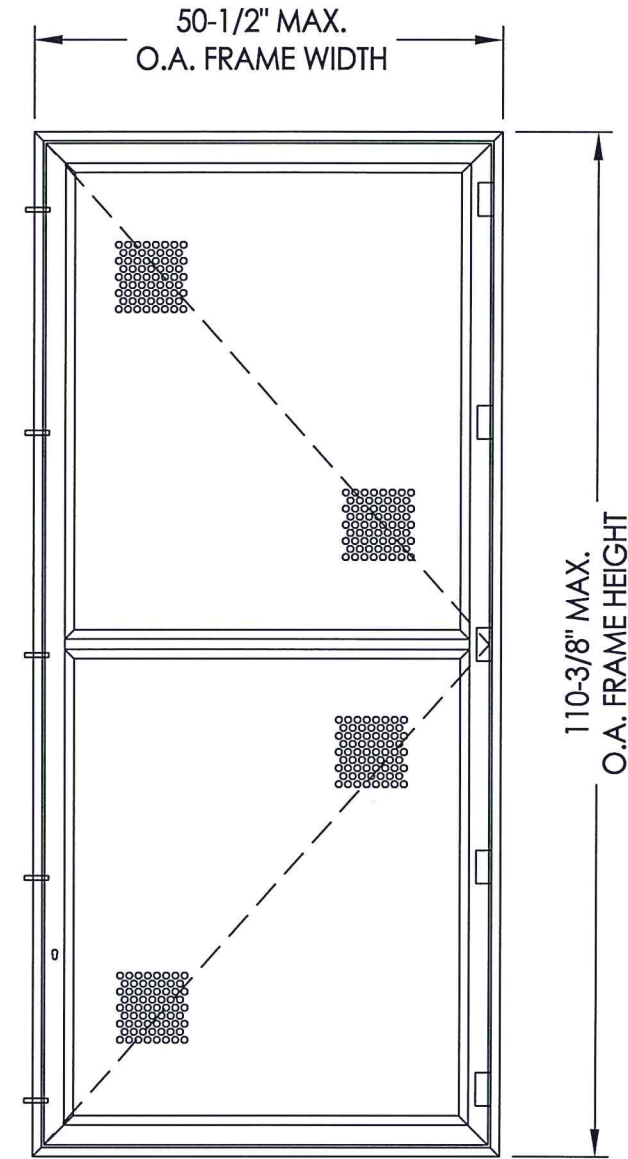


515 N. FRALEY STREET
KANE, PA 16735
PH. (814) 837-6464

VAN GUARD II ALUMINUM HURRICANE BARRIER OUTSWING "IMPACT"

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 5th Edition (2014) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in the HVHZ, this product complies with Section 1626 of the FBC and does not require an impact resistant covering.
4. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
5. All steel shall be protected as specified in Section 2222.6 of the FBC.



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PRODUCT:
KANE SCREENS
VAN GUARD II
ALUMINUM HURRICANE BARRIER
PART OR ASSEMBLY:
TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevation, design pressures & general notes
2	Barrier panel sections, components & screen details
3	Reveal mount sections - masonry wall
4	Surface mount sections - masonry wall
5	Reveal mount sections - 2x wood framing
6	Surface mount sections - 2x wood framing
7	Frame anchoring - masonry wall
8	Frame anchoring - 2x wood framing
9	Bill of materials, components & lock release options

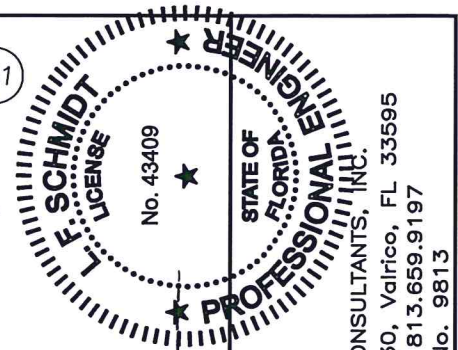
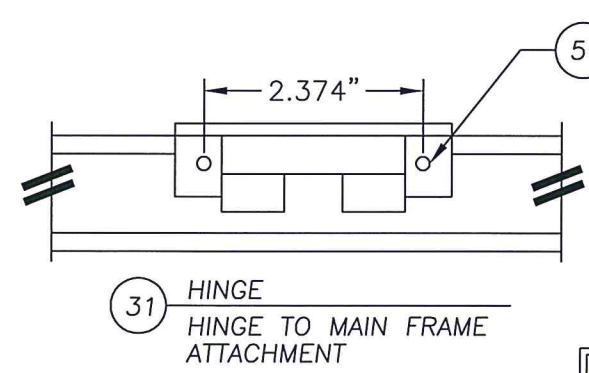
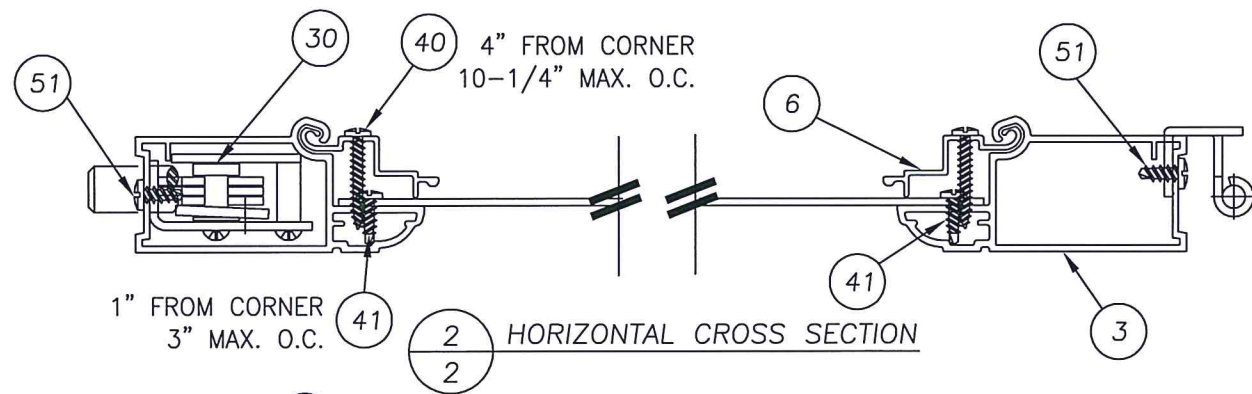
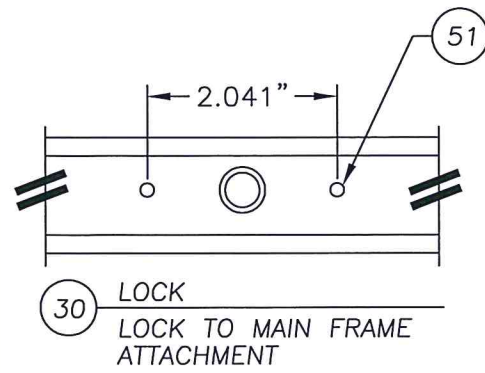
MOUNTING STYLE	OVERALL FRAME DIMENSION	SCREEN OPENING DIMENSION	DESIGN PRESSURE (PSF) (without Porosity Factor)		DESIGN PRESSURE (PSF) (with Porosity Factor*)	
			POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
REVEAL MOUNT	50.50"	41.78"	50.0	50.0	80.0	80.0
SURFACE MOUNT	110.375"	49.18"	50.0	50.0	80.0	80.0

* NOTE: The Design Pressure shown has been increased for the porosity of the barrier (62%). The consideration of the use of the porosity factor is at the discretion of the Design Professional or the Authority Having Jurisdiction.

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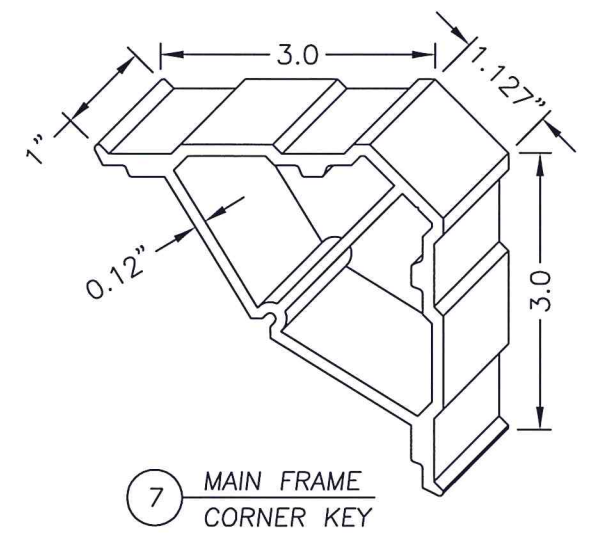
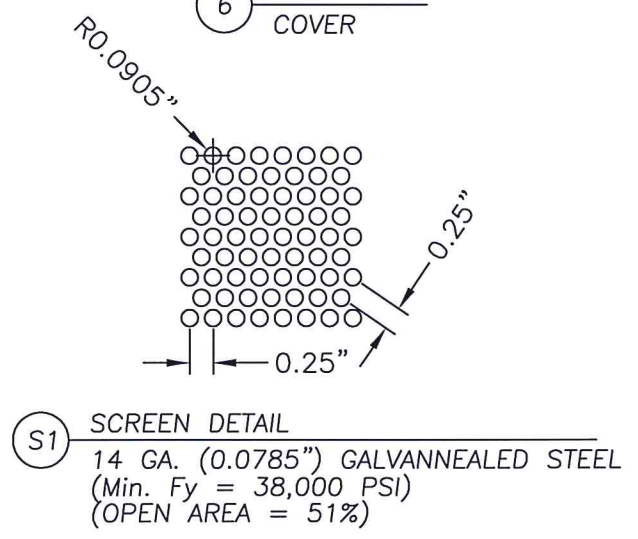
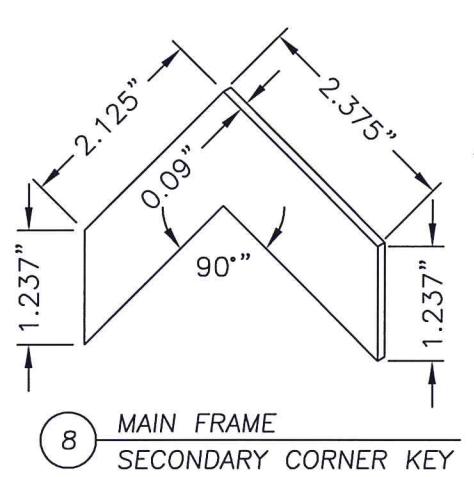
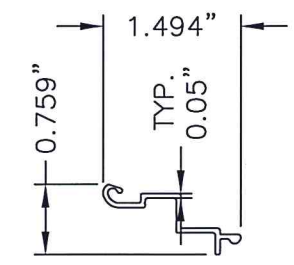
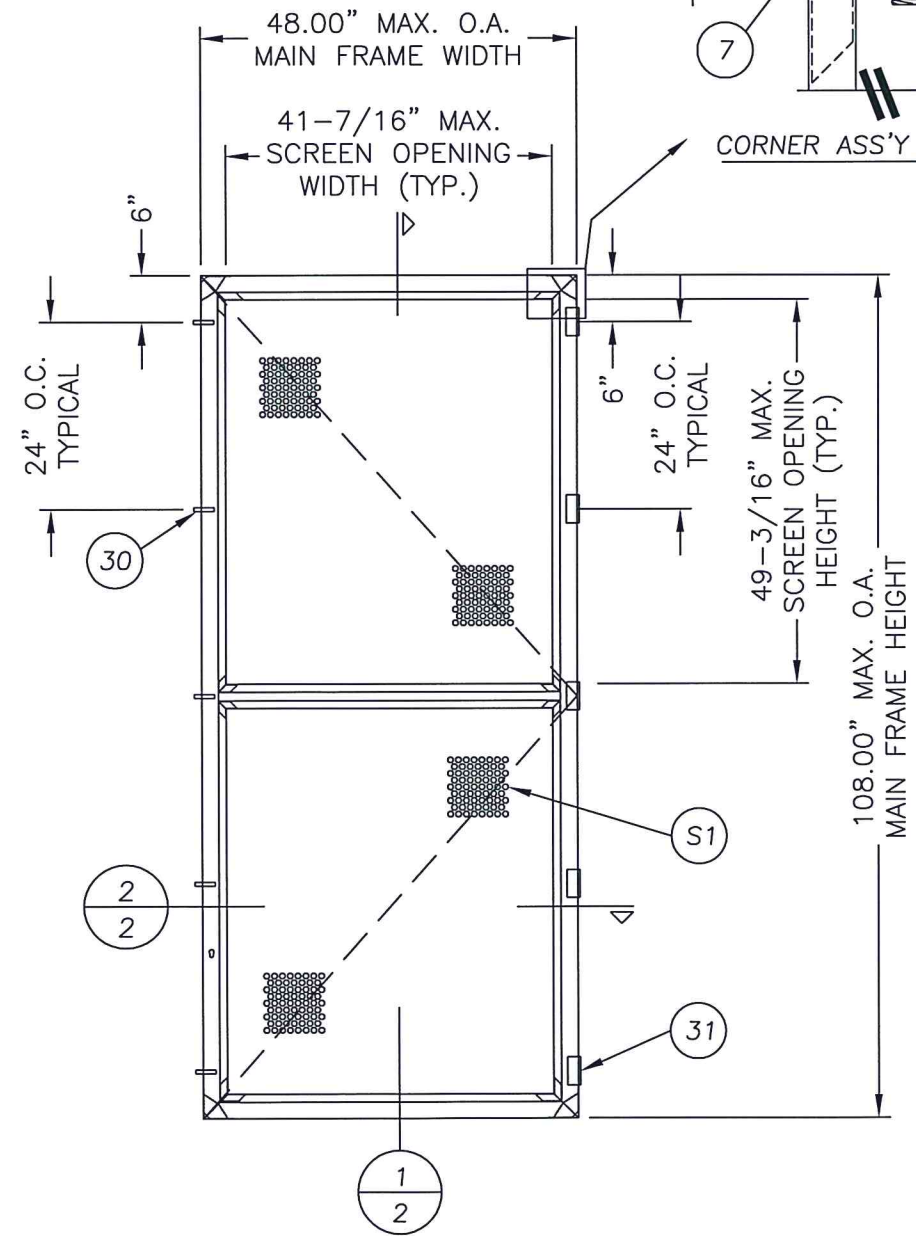
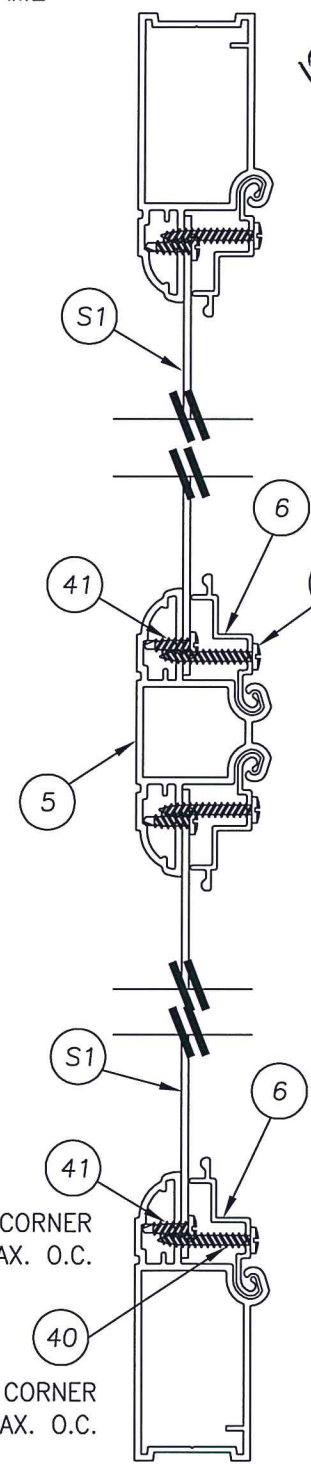
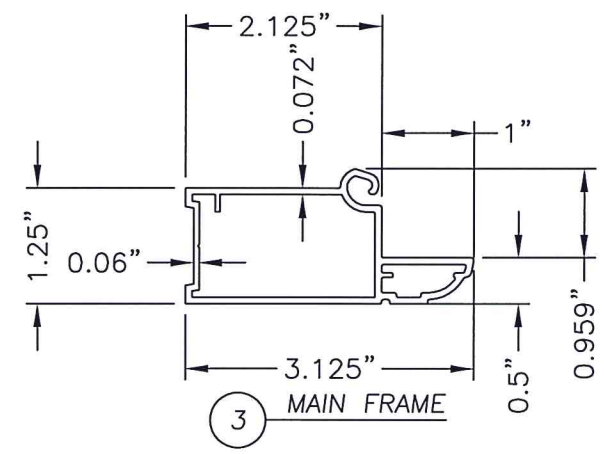
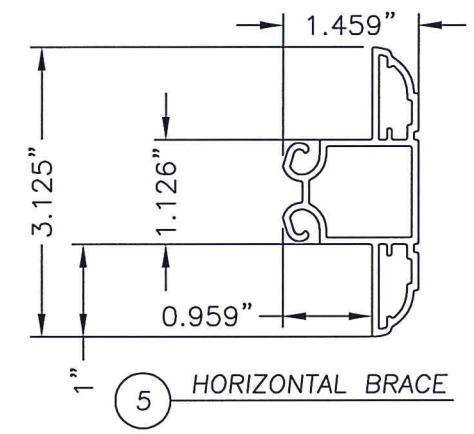
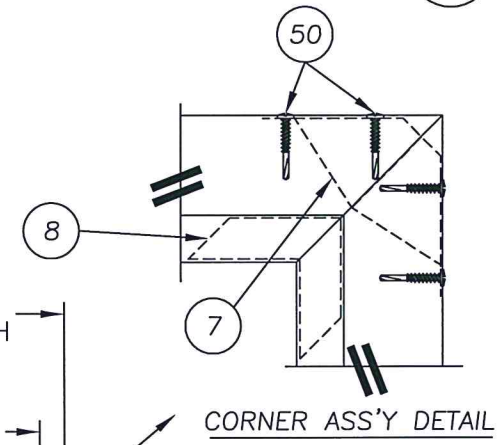
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CHK. BY: LFS
DRAWING NO.: FL-10238.3
SHEET 1 OF 9

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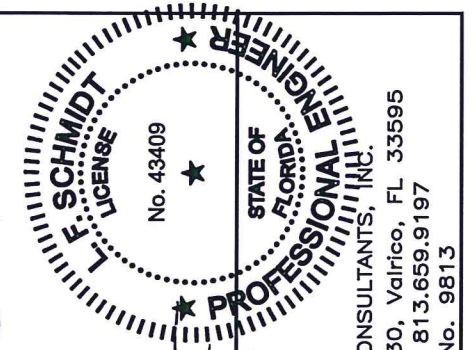
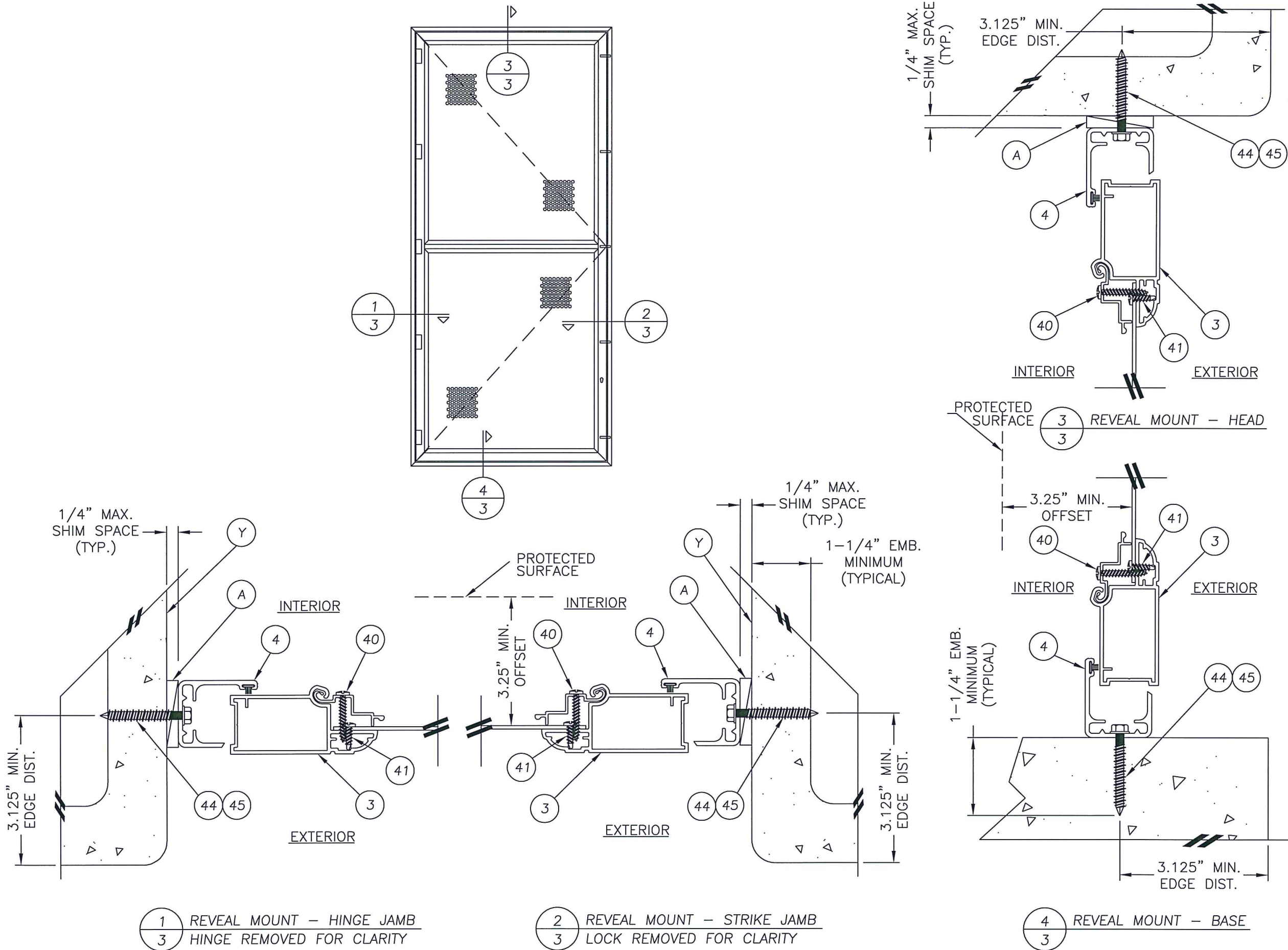
PRODUCT:
KANE SCREENS
VAN GUARD II
ALUMINUM HURRICANE BARRIER

PART OR ASSEMBLY:
BARRIER PANEL SECTIONS,
COMPONENTS & SCREEN DETAILS

NO.	DATE	DESCRIPTION	BY
1	7/01/15	UPDATE TO 5th ED. (2014) FBC	LFS

DATE: 11/11/13
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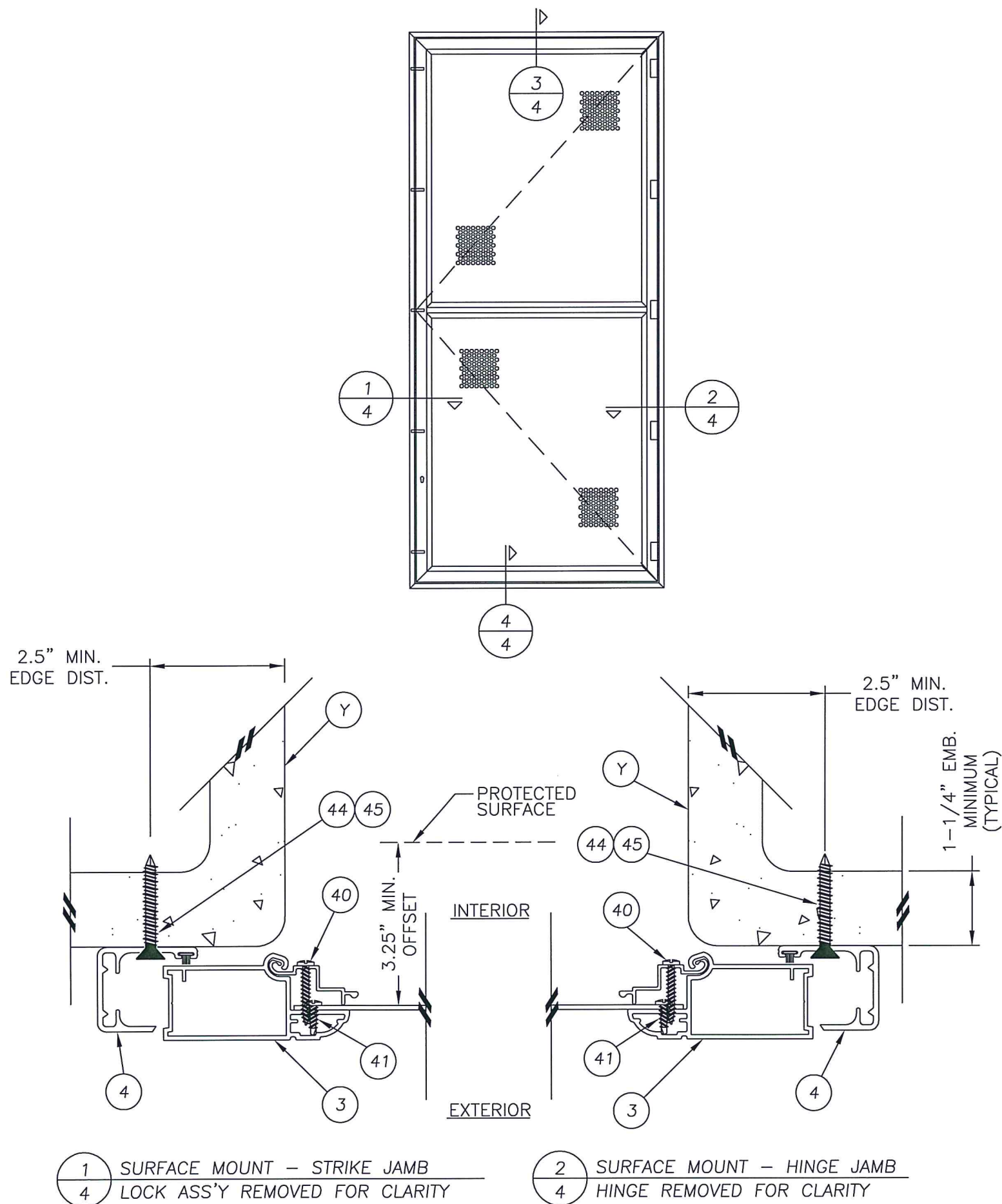
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PRODUCT: KANE SCREENS
VAN GUARD II
ALUMINUM HURRICANE BARRIER
PART OR ASSEMBLY: REVEAL MOUNT SECTIONS
MASONRY WALLS

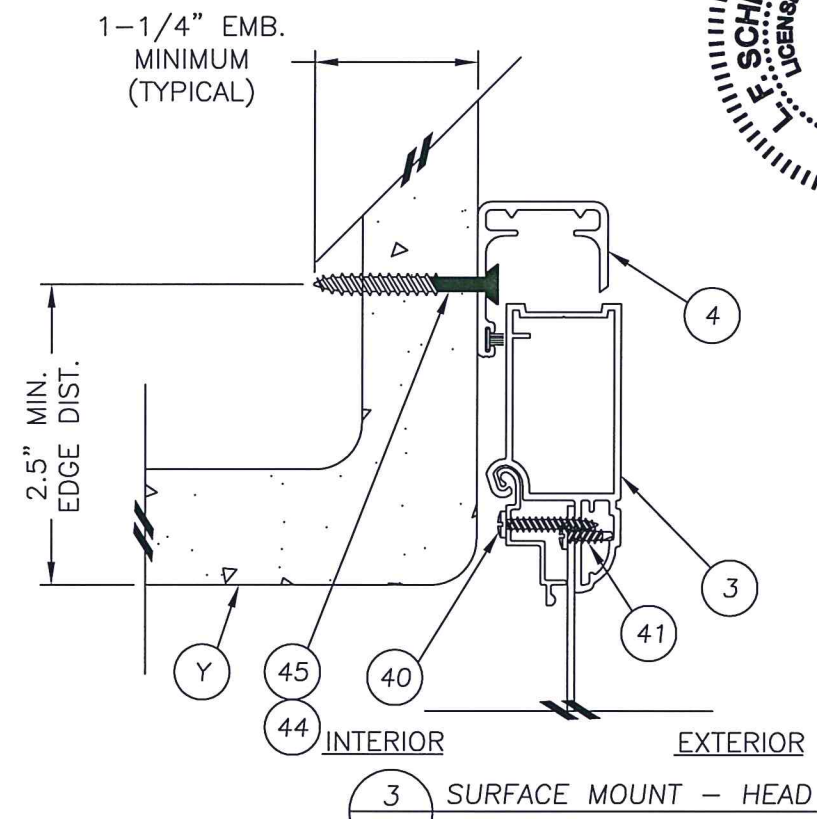
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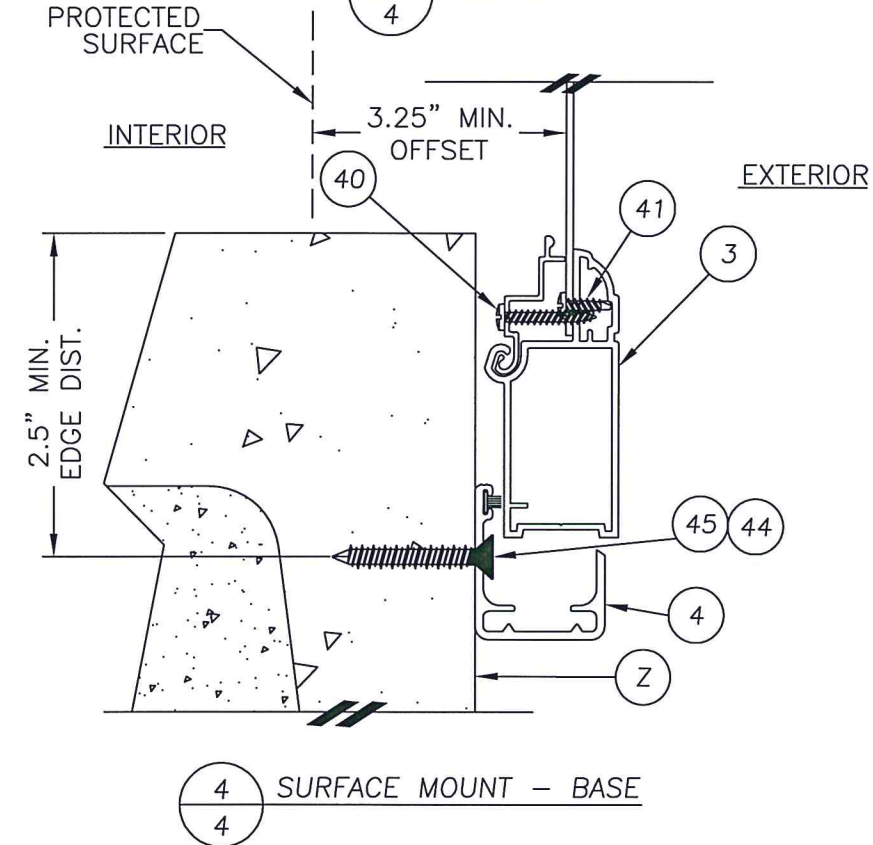


1 SURFACE MOUNT - STRIKE JAMB
4 LOCK ASS'Y REMOVED FOR CLARITY

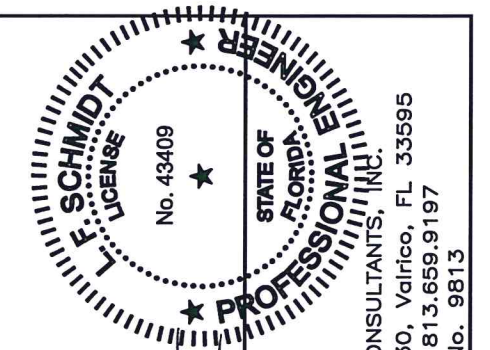
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4 HINGE REMOVED FOR CLARITY



3 SURFACE MOUNT - HEAD



4 SURFACE MOUNT - BASE



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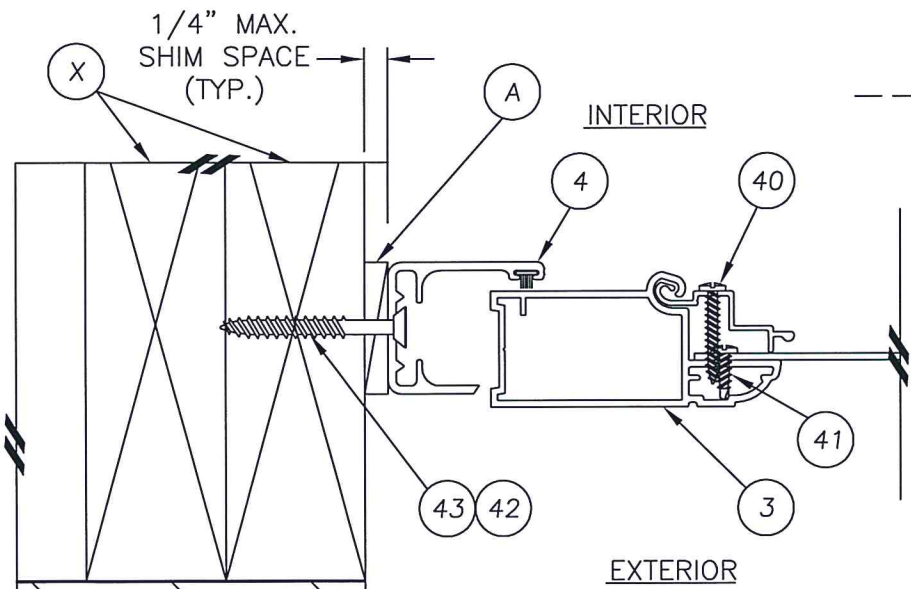
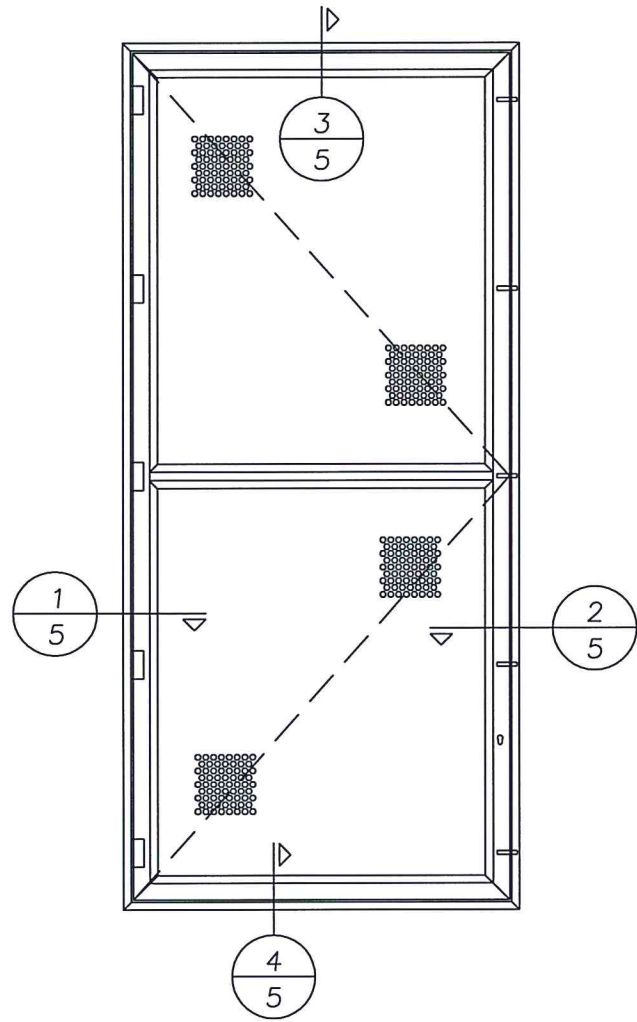
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PRODUCT: KANE SCREENS
VAN GUARD II
ALUMINUM HURRICANE BARRIER
PART OR ASSEMBLY:
SURFACE MOUNT SECTIONS
MASONRY WALLS

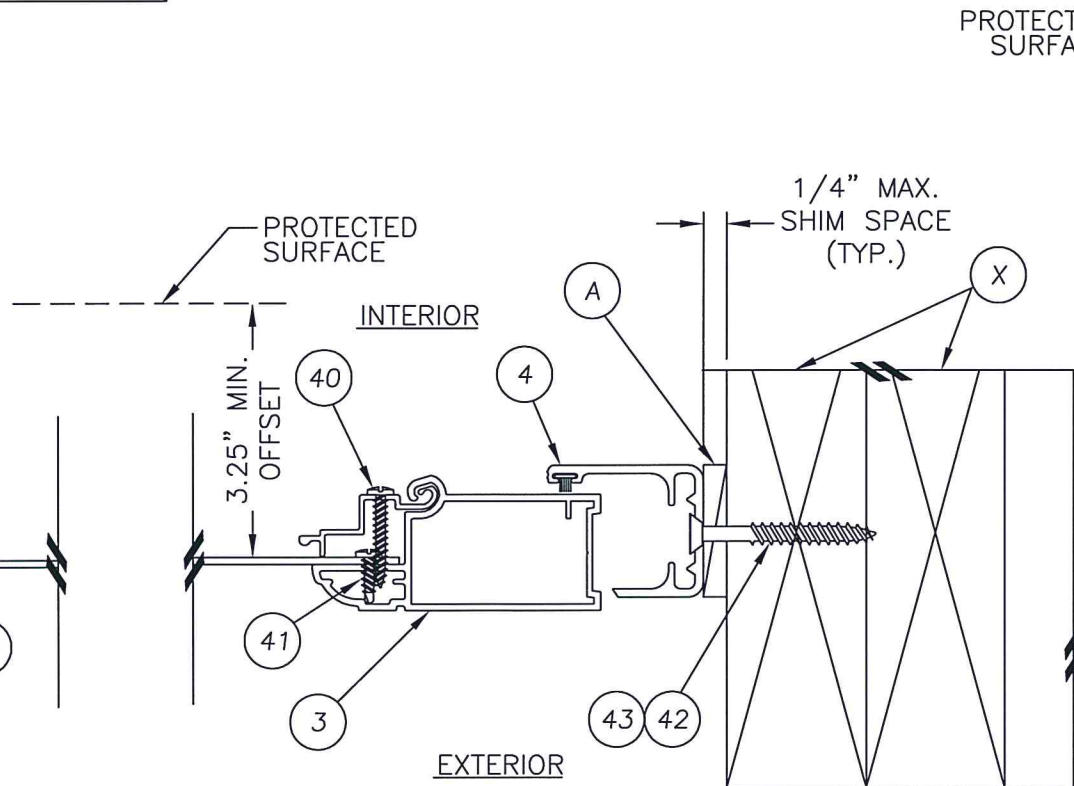
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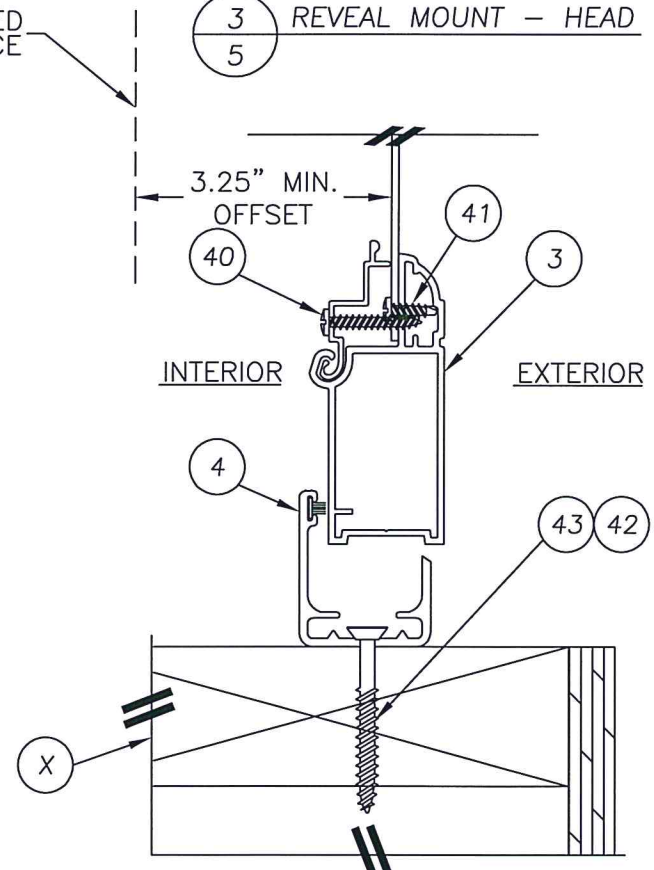
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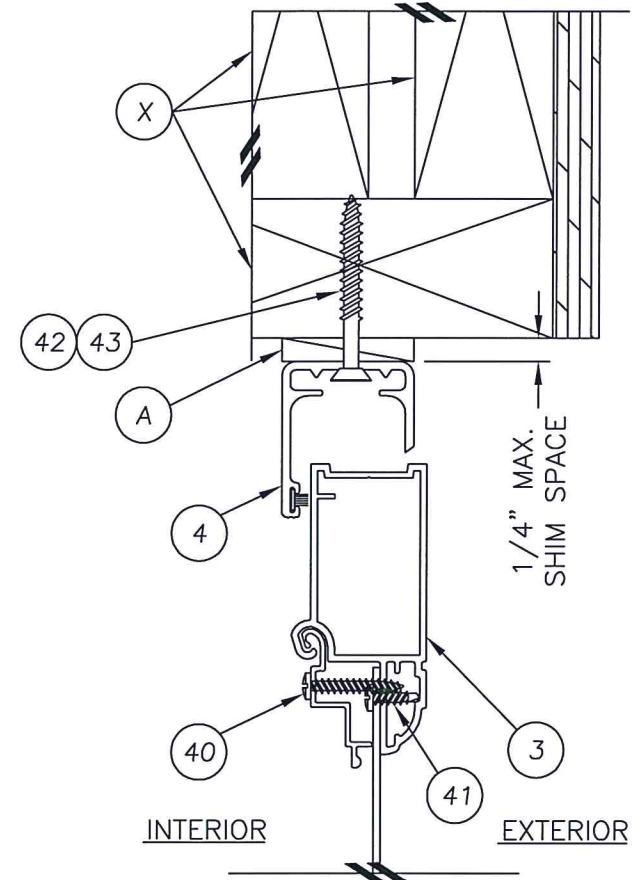
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 5 HINGE REMOVED FOR CLARITY



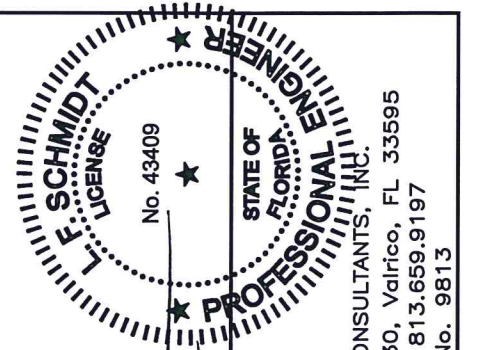
2 REVEAL MOUNT - STRIKE JAMB
 5 LOCK REMOVED FOR CLARITY



4 REVEAL MOUNT - BASE
 5



3 REVEAL MOUNT - HEAD
 5



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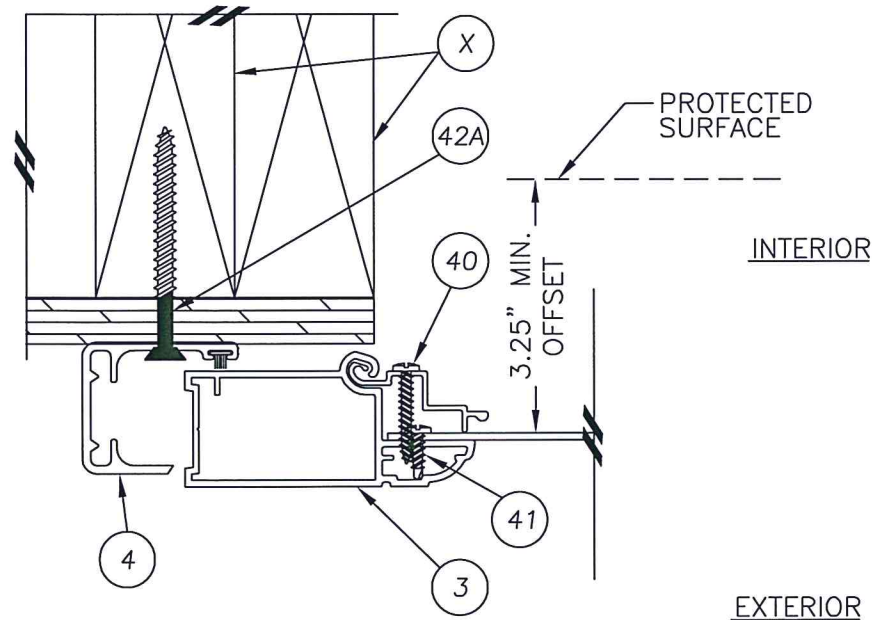
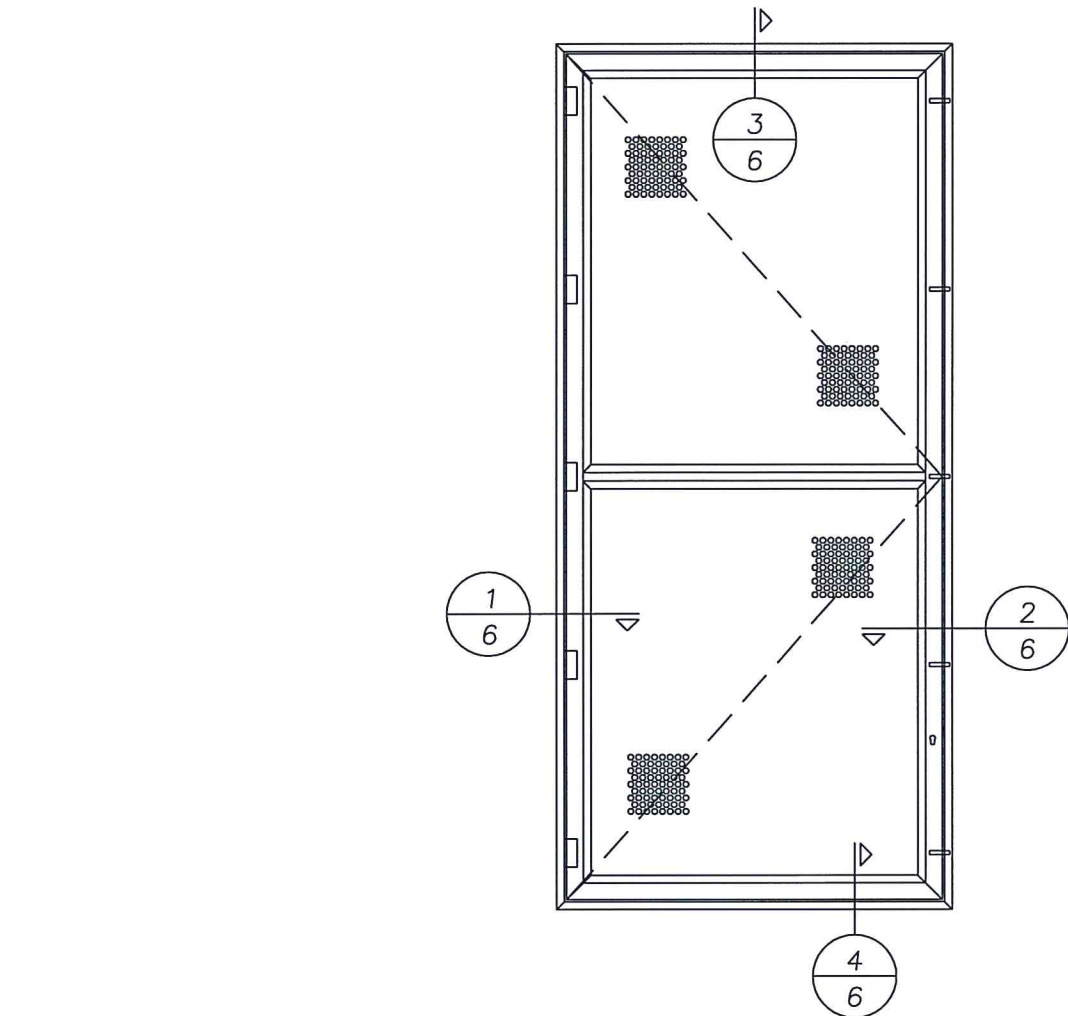
PRODUCT:
 KANE SCREENS
 VAN GUARD II
 ALUMINUM HURRICANE BARRIER

PART OR ASSEMBLY:
 REVEAL MOUNT SECTIONS
 2X WOOD FRAMING

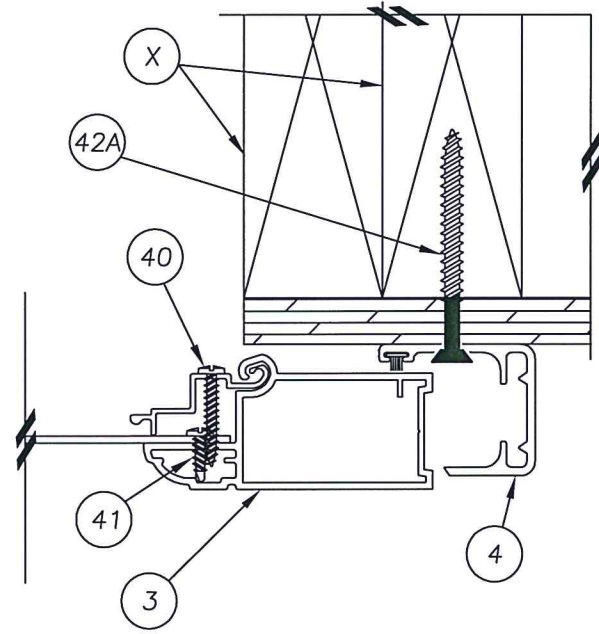
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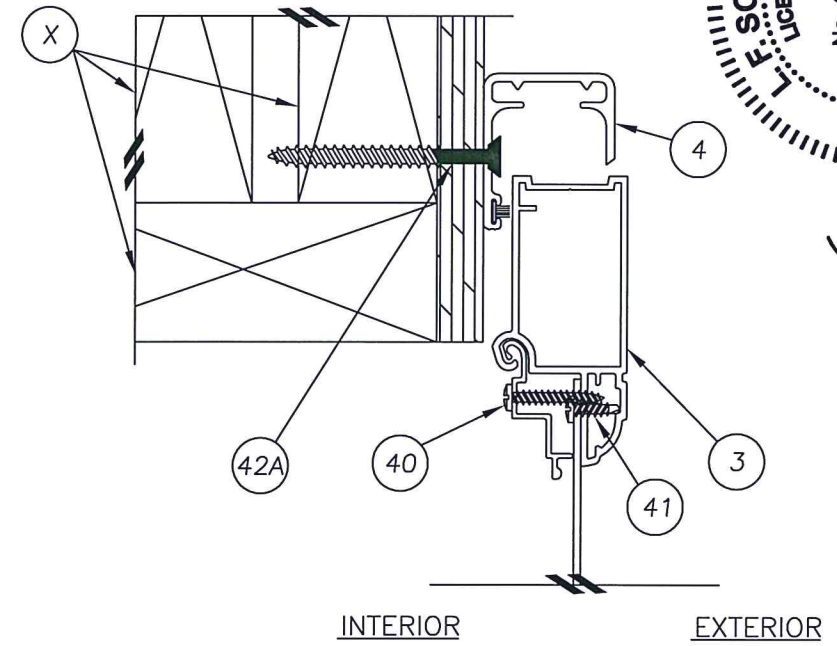
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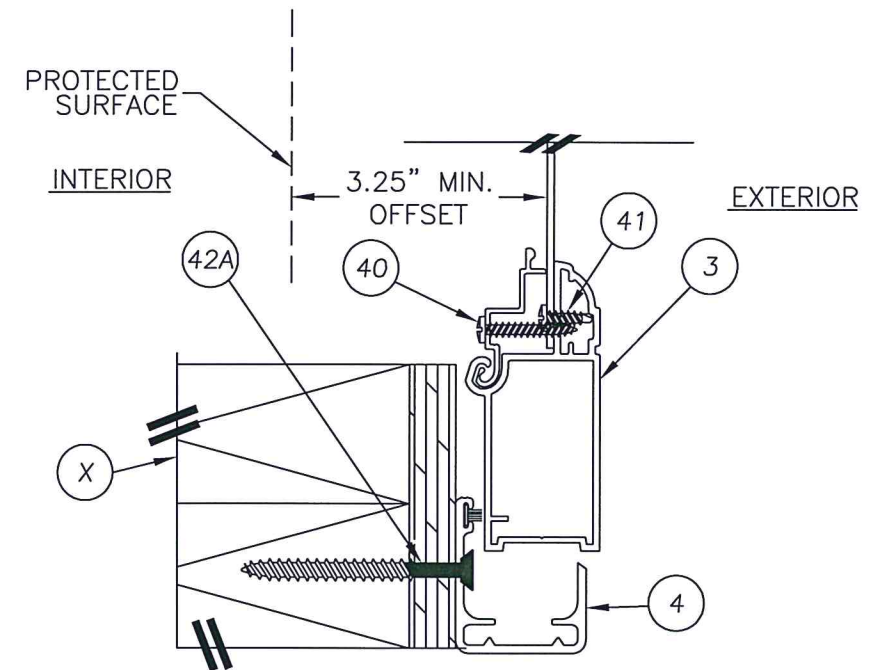
1 SURFACE MOUNT - HINGE JAMB
6 HINGE REMOVED FOR CLARITY



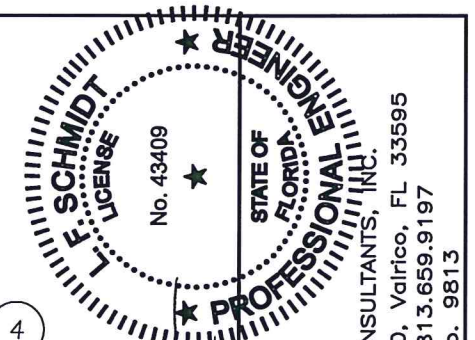
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6 LOCK REMOVED FOR CLARITY



3 SURFACE MOUNT - HEAD
6



4 SURFACE MOUNT - BASE
6



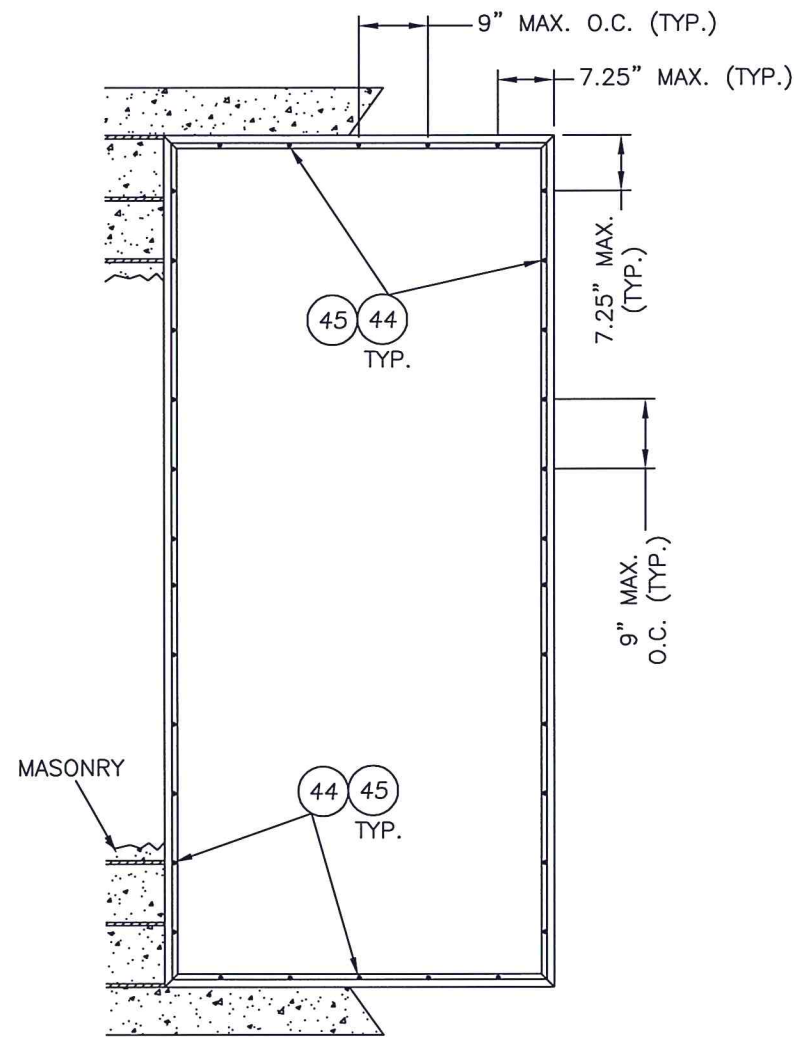
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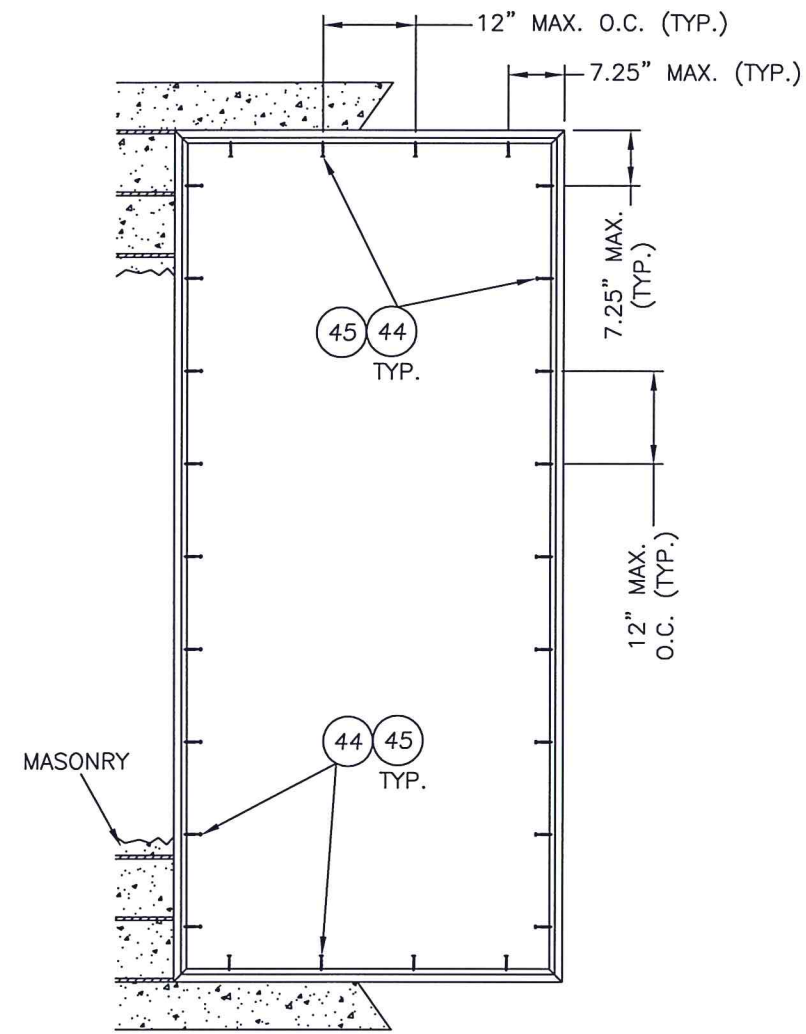
PRODUCT: KANE SCREENS
VAN GUARD II
ALUMINUM HURRICANE BARRIER
PART OR ASSEMBLY:
SURFACE MOUNT SECTIONS
2X WOOD FRAMING

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SURFACE MOUNT
SUB-FRAME ANCHORING



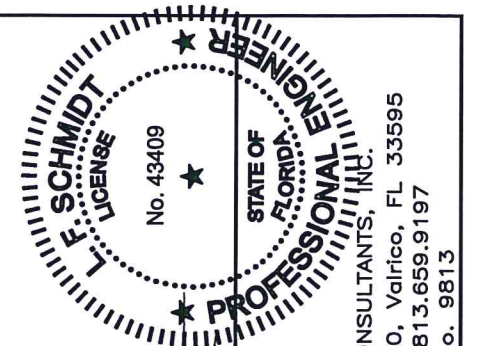
REVEAL MOUNT
SUB-FRAME ANCHORING

MASONRY ANCHORING

CONCRETE ANCHOR NOTES:

1. Substitution of equal concrete anchors from a different supplier may have different edge distance and center distance requirements.
2. Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints. Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.
3. Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2-1/2"	4"
ELCO ULTRACON®	1/4"	1-1/4"	2-1/2"	4"



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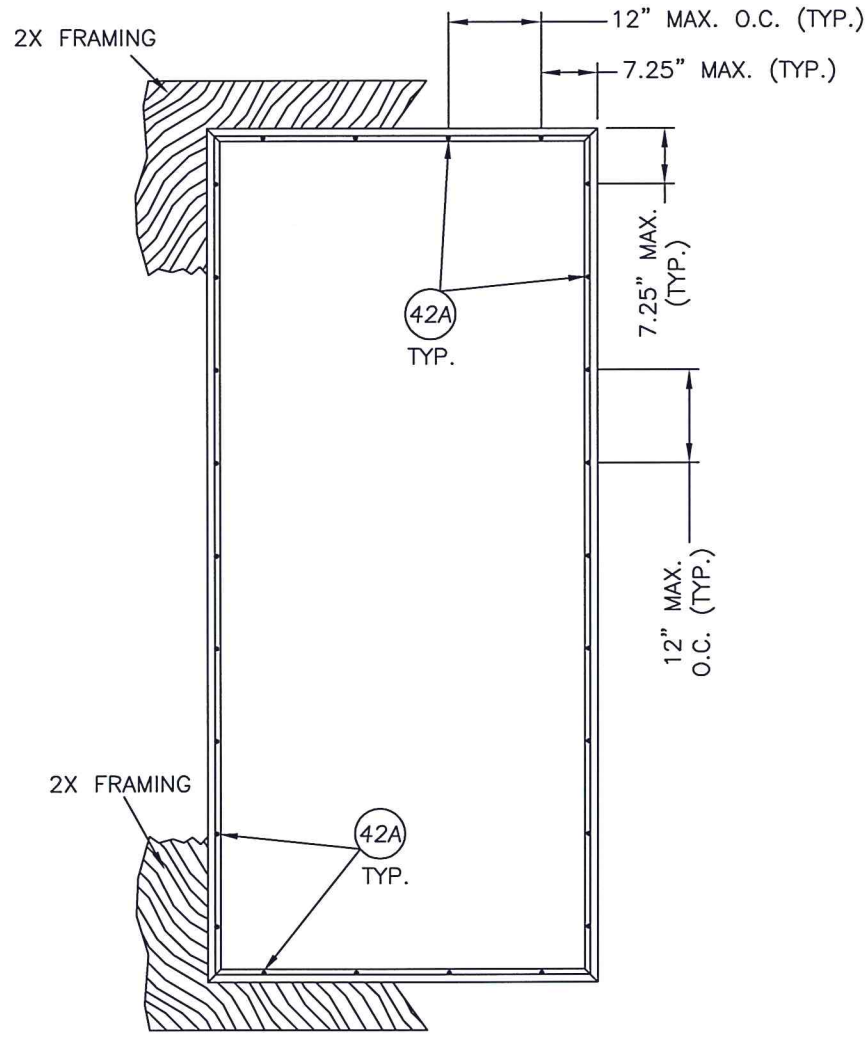
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PRODUCT: KANE SCREENS
VAN GUARD II
ALUMINUM HURRICANE BARRIER
PART OR ASSEMBLY:
FRAME ANCHORING
MASONRY WALL

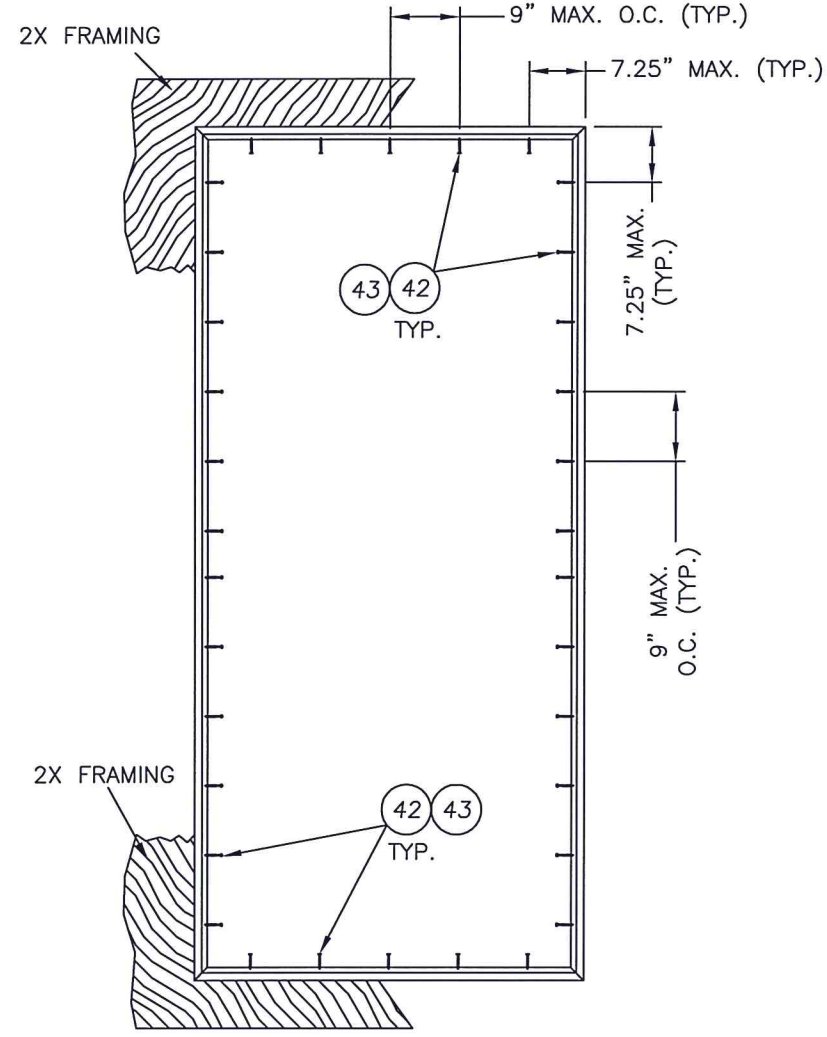
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SHEET 7 OF 9

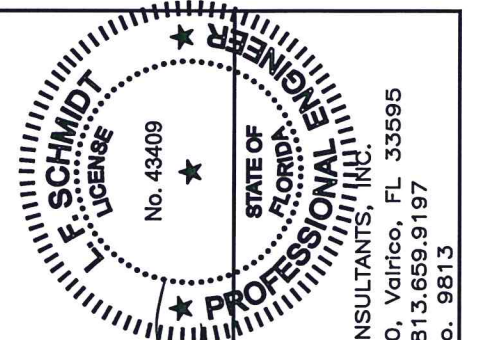


SURFACE MOUNT
SUB-FRAME ANCHORING



REVEAL MOUNT
SUB-FRAME ANCHORING

2X WOOD FRAME ANCHORING



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PRODUCT:
KANE SCREENS
VAN GUARD II
ALUMINUM HURRICANE BARRIER
PART OR ASSEMBLY:
FRAME ANCHORING
2X WOOD FRAMING

NO.	DATE	DESCRIPTION	BY
1	7/01/15	UPDATE TO 5th ED. (2014) FBC	LFS
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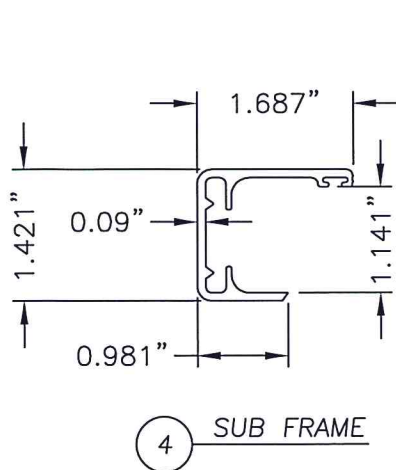
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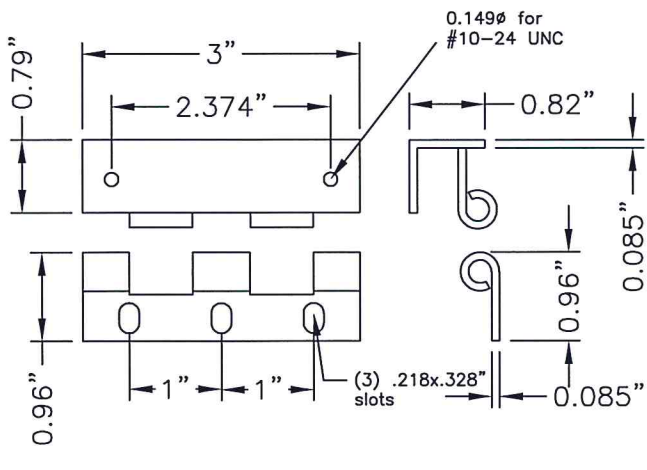
BILL OF MATERIALS (ANCHOR)		
ITEM	DESCRIPTION	MATERIAL
S1	SCREEN DETAIL (GALVANNEALED STEEL)	STEEL
X	2X FRAMING (SG >= 0.55)	WOOD
Y	HOLLOW BLOCK CMU (ASTM C90)	CONCRETE
Z	CONCRETE MASONRY (3000 PSI MIN. - ACI 301)	CONCRETE
A	1/4" MAX. SHIM	WOOD
B	MAIN FRAME CORNER ANGLE WRAP	STEEL
3	MAIN FRAME 6063-T6	ALUMINUM
4	SUB FRAME 6063-T6	ALUMINUM
5	HORIZONTAL BRACE 6063-T6	ALUMINUM
6	MAINFRAME COVER 6063-T6	ALUMINUM
7	MAIN FRAME CORNER KEY 6063-T6	ALUMINUM
8	MAIN FRAME SECONDARY CORNER KEY 6063-T6	ALUMINUM
9	HORIZONTAL BRACE CORNER KEY 6063-T6	ALUMINUM
30	LOCK ASSEMBLY (KANE 107 BITT KEY LOCK w/ 1/2" DIA. BOLT)	STEEL
31	HINGE ASSEMBLY (TYPE 304 STAINLESS STEEL)	ST. STEEL
32	BOLT STRIKE PLATE (16 GA. STEEL)	STEEL
40	#8 X 1" SQ DRIVE PAN HEAD SMS	ST. STEEL
41	#8 X 1/2" SQ DRIVE PH TEK SCREW	ST. STEEL
42	#12 X 2" PFH WOOD SCREW (1-1/2" MIN. EMBEDMENT)	STEEL
42A	#12 X 2-1/2" PFH WOOD SCREW (1-3/4" MIN. EMBEDMENT)	STEEL
43	#12 X 2" PAN HEAD SMS (1-1/2" MIN. EMBEDMENT)	STEEL
44	1/4" X 1-3/4" HWH ELCO OR ITW CONCRETE SCREW	STEEL
45	1/4" X 1-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL
47	#14 X 2-1/2" PFH WOOD SCREW (1-5/8" MIN. EMBEDMENT)	STEEL
48	#10-24 X 3/8" HWH-SLOTTED MS	ST. STEEL
49	#10-24 X 7/8" PPH MS	STEEL
50	#12-24 X 1-3/8" #3 SQ DRIVE (#4 DRILL PT.)	STEEL
51	#10-24 X 3/8" SQ DRIVE PH THREAD CUTTING SCREW	ST. STEEL
52	#10-24 X 1/4" PPH MS	ST. STEEL
53	STRIKE PLATE (13 GA. STEEL)	STEEL

1. WOOD SCREW INSTALLATION NOTES:

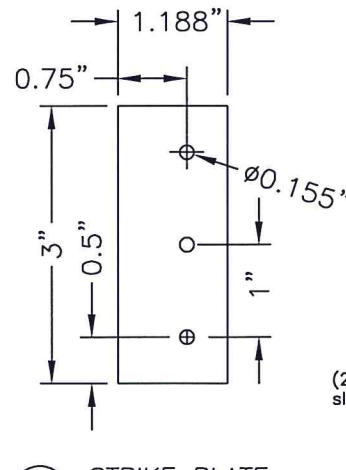
Maintain a minimum 3/4" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



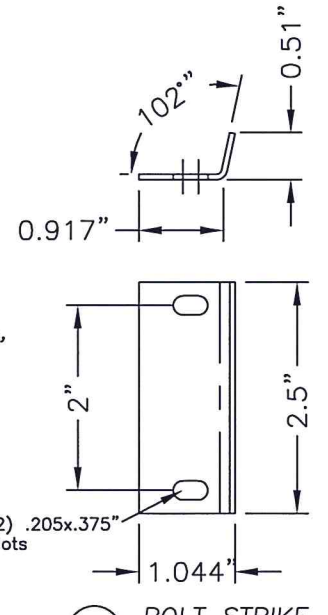
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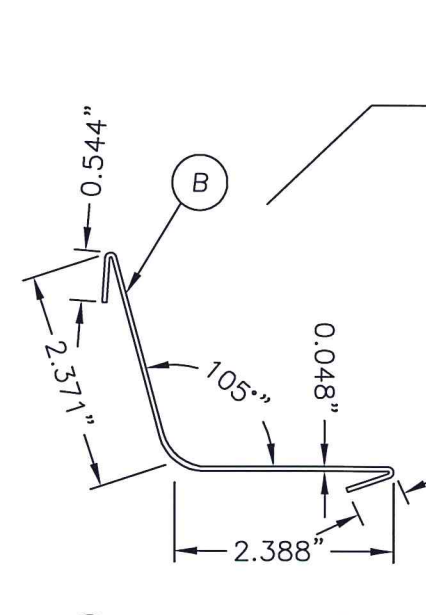
31 TYPICAL HINGE



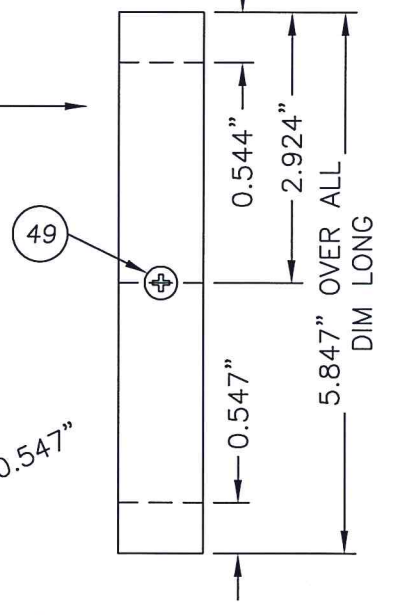
53 STRIKE PLATE



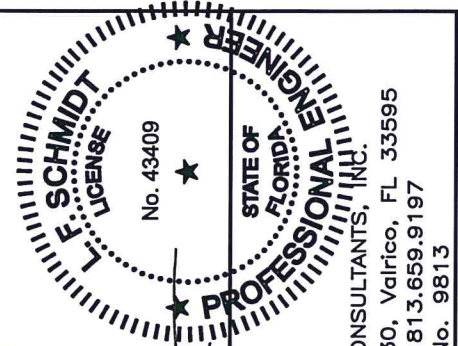
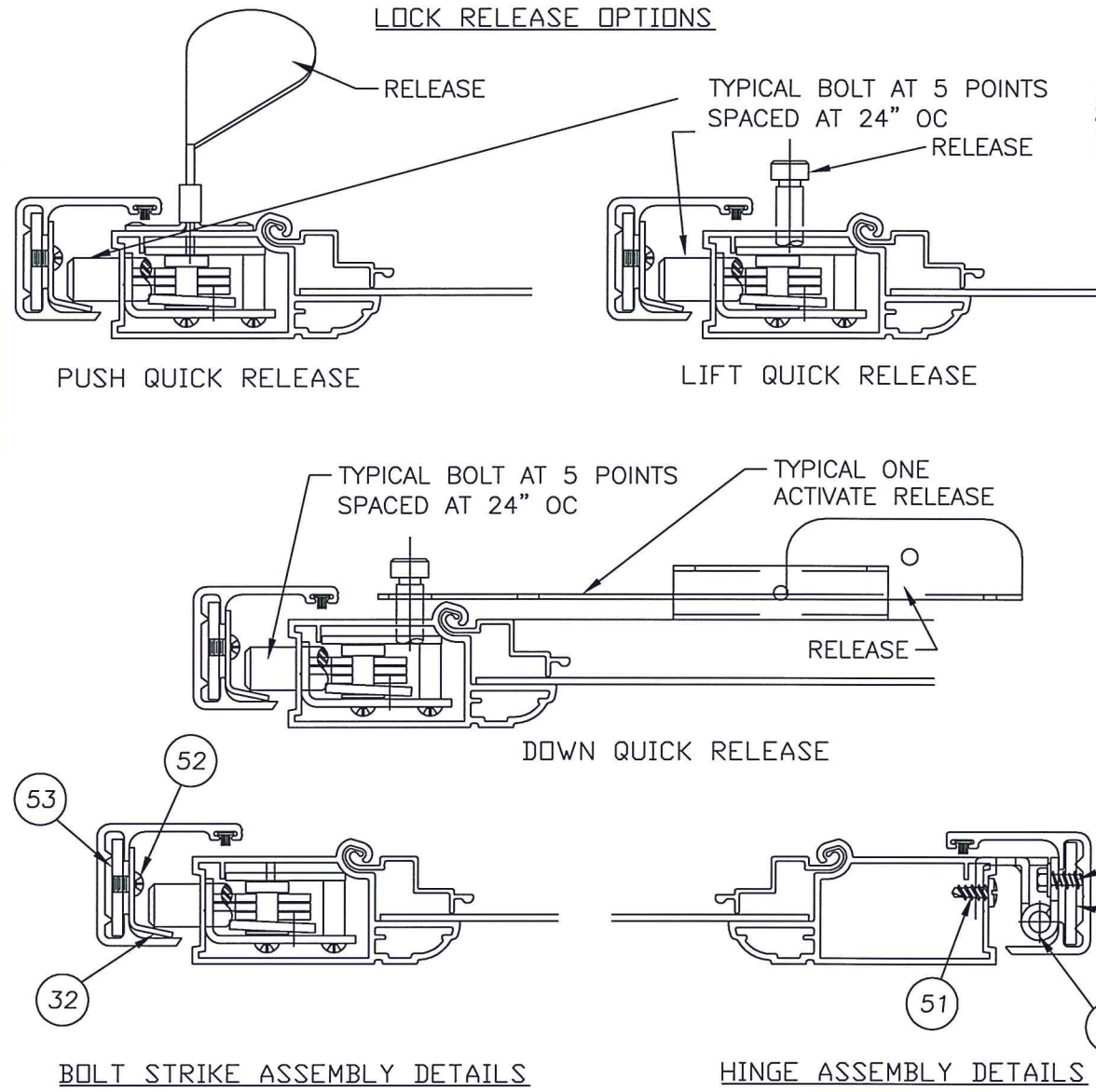
32 BOLT STRIKE



B MAIN FRAME CORNER SIDE VIEW



B MAIN FRAME CORNER ANGLE WRAP



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PRODUCT: KANE SCREENS VAN GUARD II ALUMINUM HURRICANE BARRIER
PART OR ASSEMBLY: BILL OF MATERIALS, COMPONENTS & LOCK RELEASE OPTIONS

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DATE: 11/11/13
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DWG. BY: JK
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