



Product Evaluation Report
E.F. BAVIS & ASSOCIATES, INC.

8' Fixed Window

Florida Product Approval # 6587.5 R8

Florida Building Code 2023

Per Rule 61G20-3

Method: 1 -D

Category: Windows

Subcategory: Fixed

Compliance Method: 61G20-3.005(1)(d)

HVHZ

Product Manufacturer:

E.F. Bavis & Associates, Inc.

201 Grandin Road

Maineville, Ohio 45039

Engineer Evaluator:

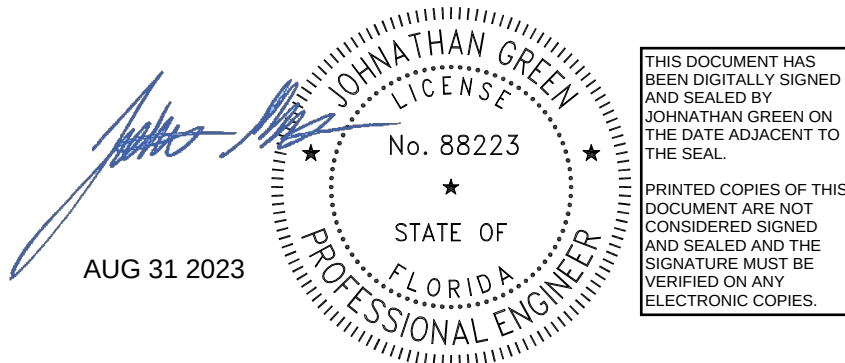
Johnathan Green, P.E. #88223

Florida Evaluation ANE ID: 12901

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Installation Detail: Page 4 - 19





Compliance Statement:	The product as described in this report has demonstrated compliance with the Florida Building Code 2023 including High Velocity Hurricane Zone.
Product Description:	8' Fixed Window Model #12103993.
Window Frame Size:	7'-4 3/8" wide x 2'-8 3/4" high x 6 7/8" deep
Window Frame:	Material: 14 Ga. ASTM A653 Grade 50, Galvannealed A60 Frame Coating: Nominal 3 mils Powder Coat
Glazing:	1 1/4" (nominal) thick bullet resistant glass. The glass consists of 3/32" annealed on interior face, 3/8" annealed, 1/2" annealed and 1/4" annealed on the exterior side. A layer of 0.030" Kuraray Trosifol PVB is placed between each layer of glass.
Glazing Interlayer:	Kuraray America, Inc. 0.030" Kuraray Trosifol PVB Interlayer Miami Dade NOA NO: 23-0717.28
Window Frame Anchorage:	Header: Six fasteners equally spaced, 7 5/16" from each end then 14 3/4" O.C. Sill: Six fasteners located in pairs of two at 2" apart, 8 1/4" from each end and at center. Jamb: Three fasteners located 6", 17 1/4" and 28 1/2" from bottom of frame for each jamb. All fasteners shall be corrosion resistance per Florida Building Code 2023.
Substrate:	Minimum 14 Ga. Stud framed opening or Minimum Grout filled C90 Concrete Block Nominal 8" or Minimum No 2 S.P.F. Wood frame Substrate must be designed in accordance w/ Florida Building Code 2023.
Anchor Edge Distance:	Minimum 3/4" edge distance for 14 Ga. steel framing Minimum 3" edge distance for Grout filled C90 Concrete Block Nominal 8" Minimum 1 1/4" edge distance for No 2 S.P.F. Wood frame
Design Wind Pressures:	+ / - 75.0 psf



Performance Standards:

The product described herein has demonstrated compliance with:

- TAS 201-94: Large Missile Impact Test.
- TAS 202-94: Criteria for Testing Impact and Non-Impact Resistance Building Envelope Components Using Static Air Pressure.
- TAS 203-94: Criteria for Testing Products Subject to Cyclic Wind Pressure Loading.
- ASTM F588: Type D Hand & Tool Manipulation Test

Reference Data:

1. Test Reports T195-08
Farabaugh Engineering & Testing, Inc.
2. Anchor Calculations
Terrence E. Wolfe, P.E. # 44923
3. Certificate of Independence
By Johnathan Green, P.E. (No. 88223) @ Force Engineering & Testing
(FBC Organization # ANE ID: 12901)

Quality Assurance Entity:

The manufacturer has established compliance of roof panel products in accordance with the Florida Building Code and Rule 61G20-3.005 (3) for manufacturing under a quality assurance program audited by an approved quality assurance entity.

Installation:

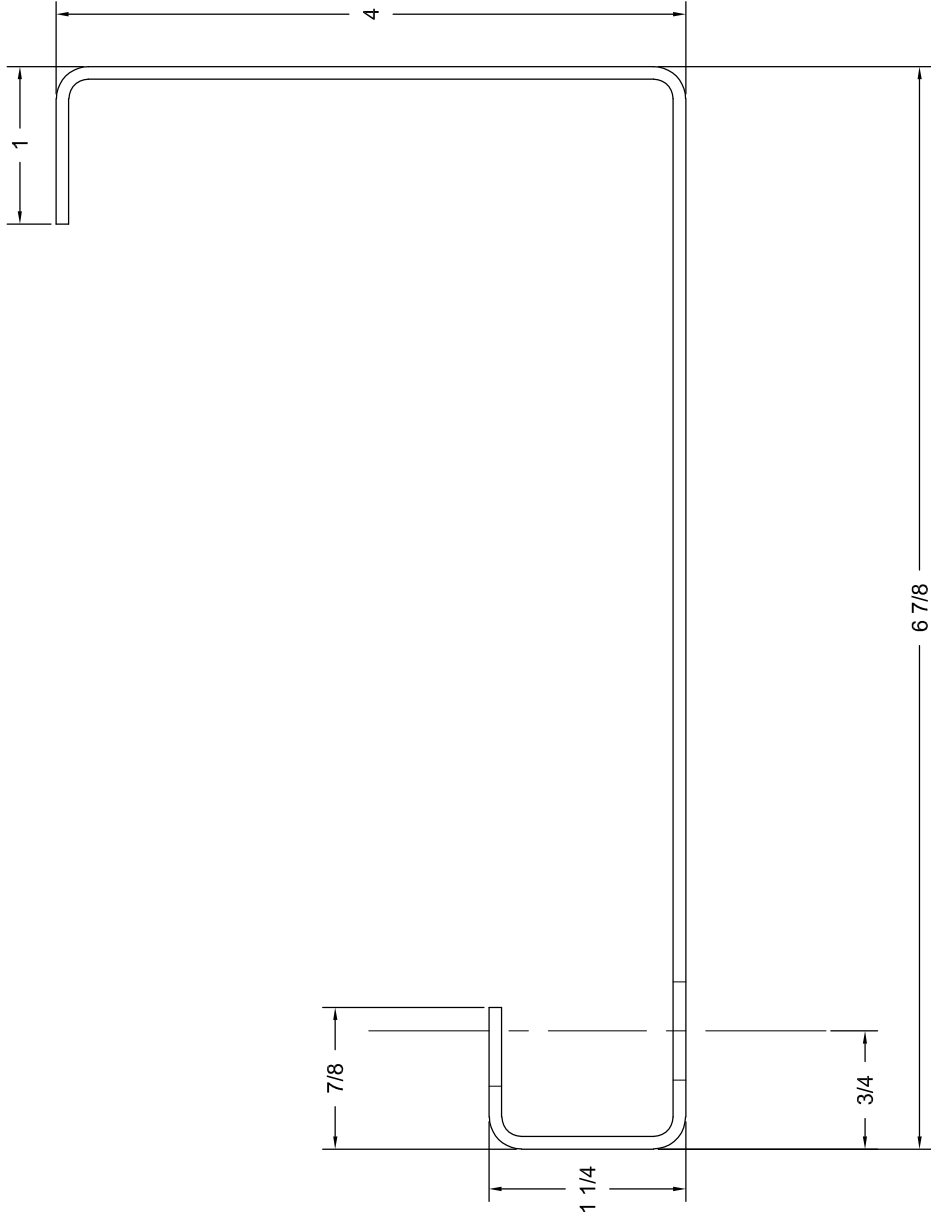
Install per manufacturer's recommended details.

Design Procedure:

Based on the dimensions of the structure, appropriate wind loads are determined using Chapter 16 of the Florida Building Code 2023 for wall cladding wind loads. These component wind loads for wall cladding are compared to the allowable pressure listed above. The design professional shall select the appropriate erection details to reference in his drawings for proper fastener attachment to the structure. Support framing must be in compliance with Florida Building Code 2023.

	E.F.BAVIS & ASSOC. INC.		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES DECIMALS: .XX ± .01; .XXX ± .005 FRACTIONS: + - 1/32" ANGLES: ± .30° REMOVE ALL BURRS AND SHARP EDGES TO R .02 OR .02 X .02 CHAMFER MAX.		8' FIXED WINDOW		MODEL 12103993		PAGE 2 OF 15	
	201 GRANDIN RD. P.O. BOX 337 MAINEVILLE, OH. 45039 0337 PH 513-677-0500 FAX 513-677-0552		THIS DOCUMENTATION AND INFORMATION CONTAINED ARE THE SOLE PROPERTY OF E.F.BAVIS & ASSOC. INC. IT SHALL BE RETURNED UPON REQUEST AND SHALL NOT BE REPRODUCED IN WHOLE OR IN PART, OR DISCLOSED TO ANYONE ELSE, OR USED, WITHOUT WRITTEN CONSENT OF E.F.BAVIS & ASSOC. INC.				DWG. 8' WT-HUR		DATE ORDERED: 12/16/04 BAP	
							REV. DATE: 06/27/08		MJC E.F.Bavis & Assoc. Inc. COPYRIGHT 1996,2002	

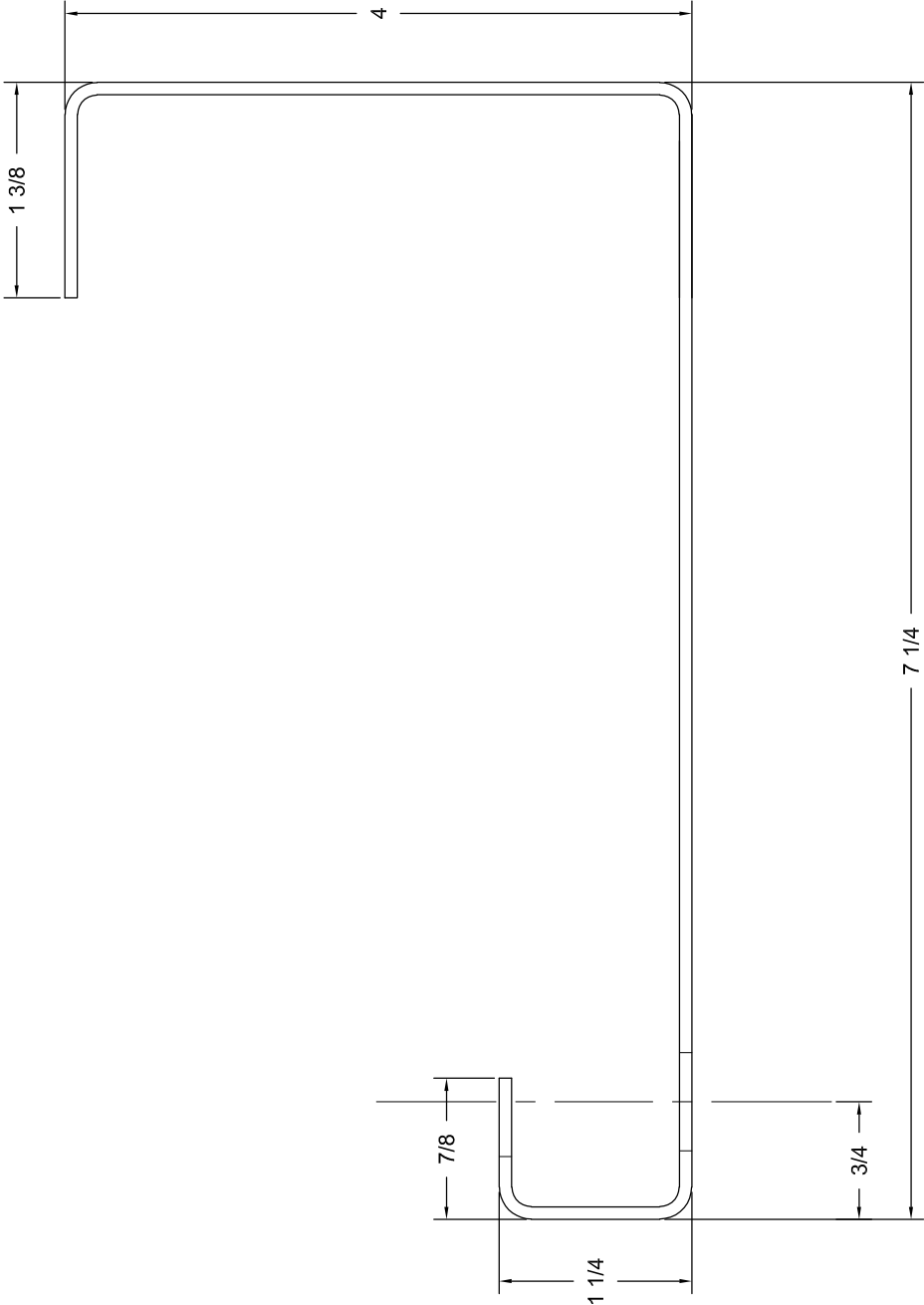
VERTICAL FRAME CROSS SECTION, FOR PLANT QUALITY CONTROL



ITEM - 1

MATERIAL: ASTM A653 .0785 (14 GAUGE) GALVANNEALED A60

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					REV.		06/27/08		MJC E.F.Bavis & Assoc. Inc.	
TOP FRAME CROSS SECTION, FOR PLANT QUALITY CONTROL										

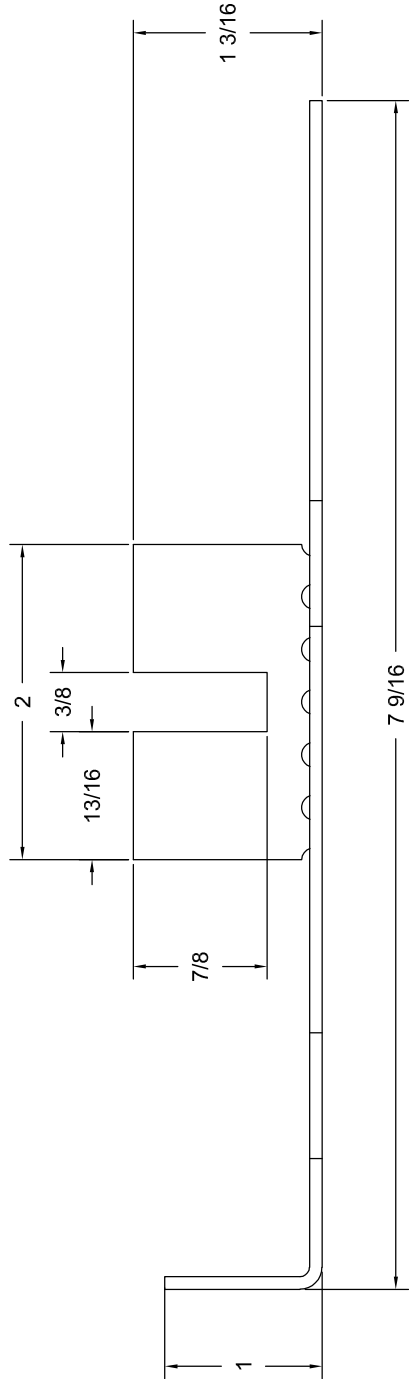


ITEM - 2

MATERIAL: ASTM A653 .0785 (14 GAUGE) GALVANNEALED A60

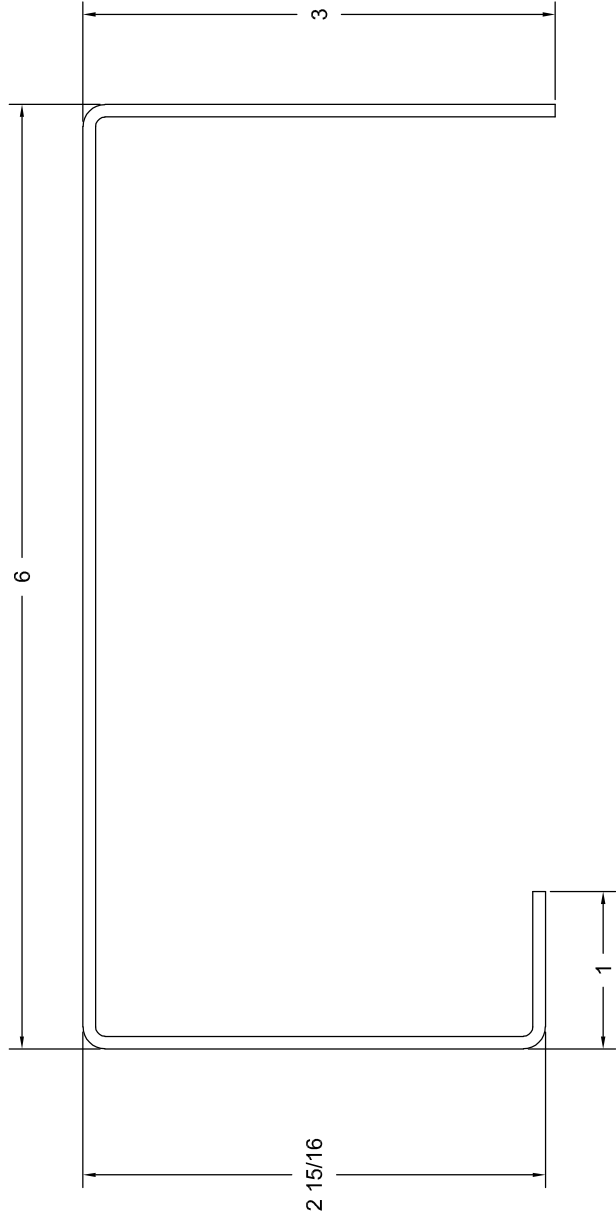
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	MAINEVILLE, OH. 45039 0337				REV.				COPYRIGHT 1996,2002 E.F.Bavis & Assoc. Inc.	
	PH 513-677-0500 FAX 513-677-0552				DATE:					

LOWER SILL CROSS SECTION, FOR PLANT QUALITY CONTROL



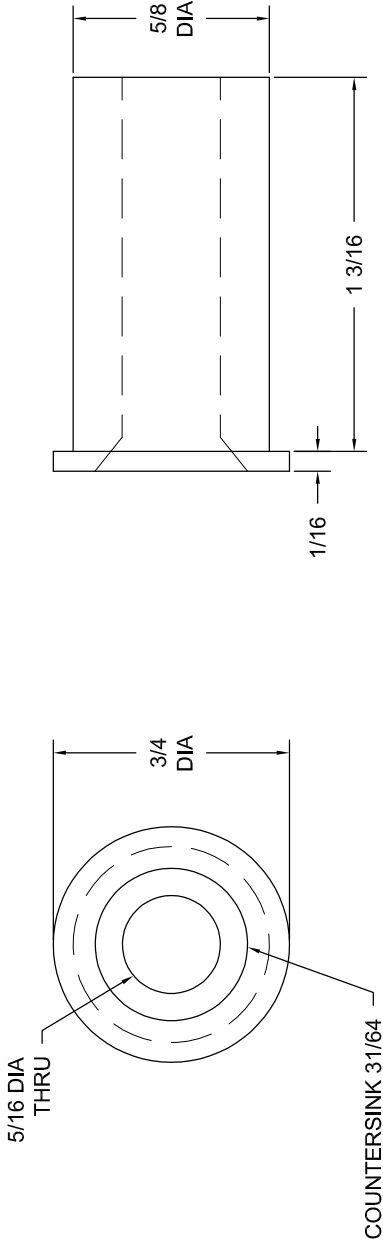
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					REV.		08/21/12		MJC COPYRIGHT 1986, 2002 E.F. Bavis & Assoc. Inc.	

UPPER SILL CROSS SECTION, FOR PLANT QUALITY CONTROL



	E.F.BAVIS & ASSOC. INC.		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES DECIMALS: .XX ± .01 ; .XXX ± .005 FRACTIONS: + - 1/32" ANGLES: + - 30' REMOVE ALL BURRS AND SHARP EDGES TO R .02 OR .02 X .02 CHAMFER MAX.		12103993		PAGE
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					DWG. 8' WT-HUR		DATE CREATED: 12/16/04 BAP
				REV.		COPYRIGHT 1996,2002 E.F.Bavis & Assoc. Inc.	
				DATE:			

WINDOW FILLER PLUG, FOR PLANT QUALITY CONTROL



ITEM - 5

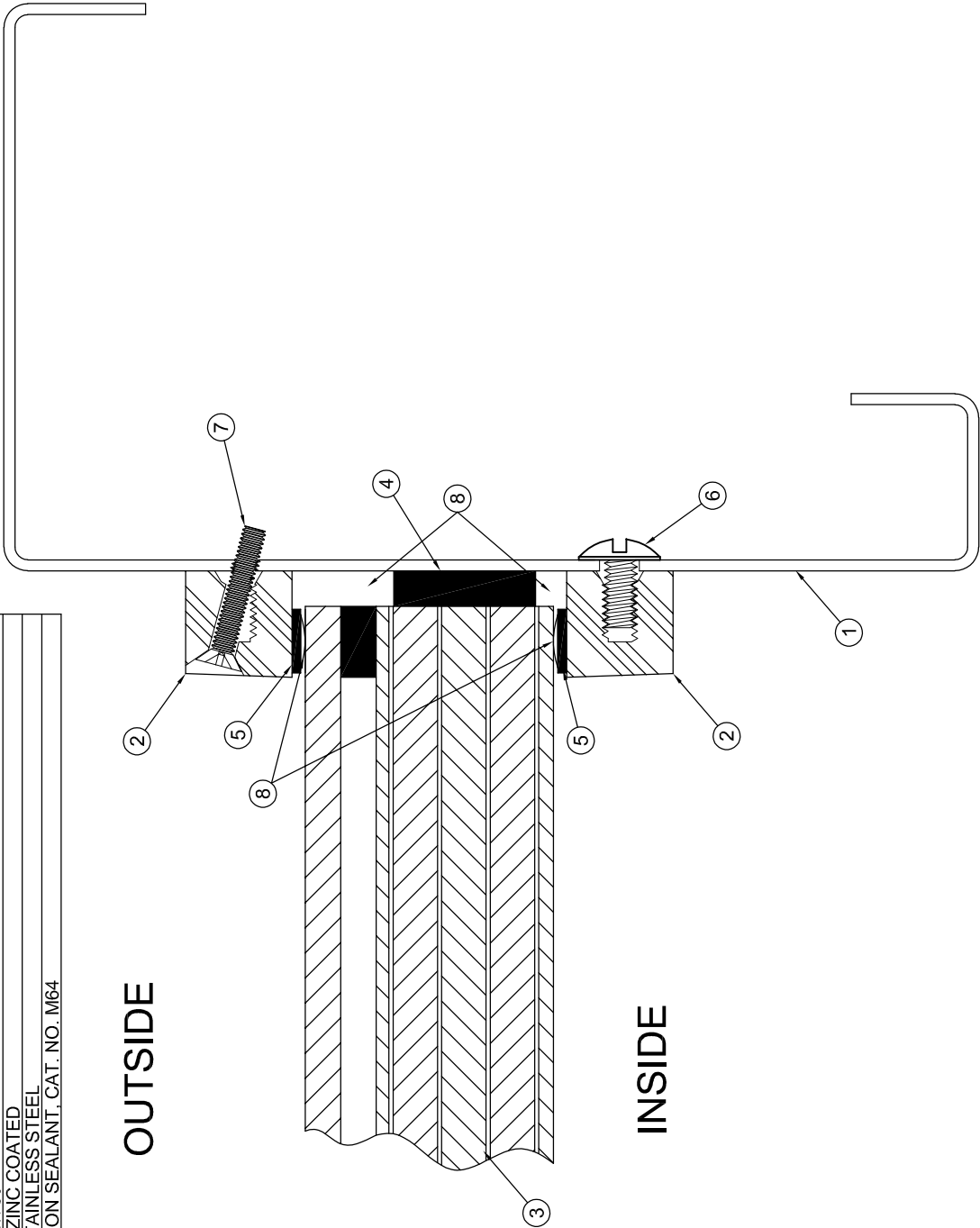
MATERIAL: 12L14 STEEL

8' FIXED WINDOW

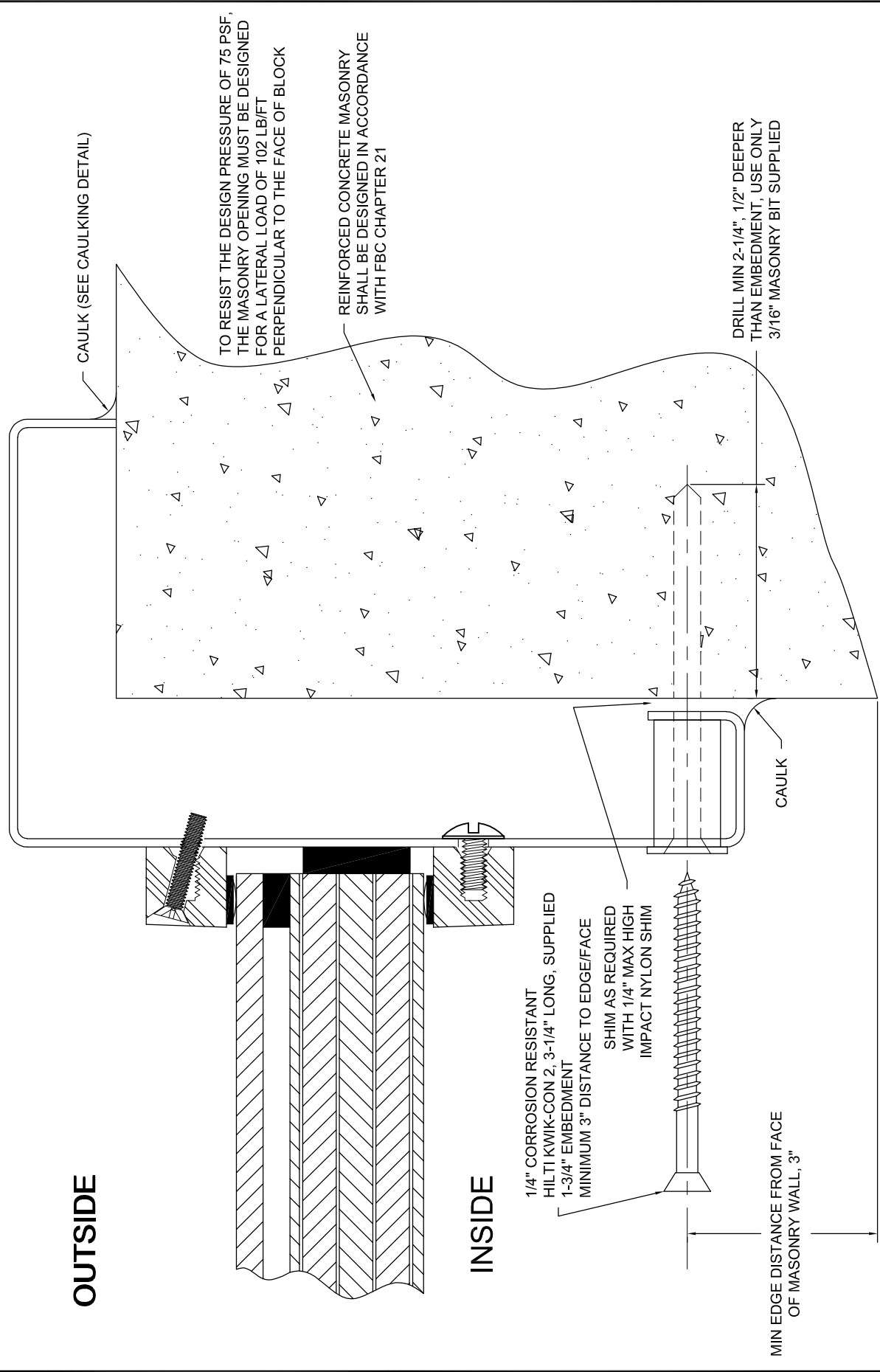
INSULATED GLASS WINDOW GLAZING DETAIL, FOR PLANT QUALITY CONTROL

ITEM	DESCRIPTION
1	VERTICAL FRAME
2	3/4" X 3/4" ALUMINUM EXTRUSION
3	UL LISTED 78CL, LEVEL 1 BULLET RESISTANT GLASS
	STANDARD MAKE-UP: 1/4" ANNEALED, 1/2" ANNEALED, 3/8" ANNEALED & 3/32" ANNEALED GLASS
	WITH 0.030" KURARAY TROSIFOL PVB (POLYVINYL BUTYRAL) INTERLAYERS
	INSULATED MAKE-UP: 1/4" ANNEALED, 1/4" AIR SPACE, 1/4" ANNEALED, 1/2" ANNEALED, 3/8" ANNEALED
	& 3/32" ANNEALED GLASS WITH 0.030" KURARAY TROSIFOL PVB (POLYVINYL BUTYRAL) INTERLAYERS
4	1" X 4" X 3/16" THICK, RUBBER SETTING BLOCK
5	1/16" BUTYL TAPE, TREMCO 7242YA1760
6	1/4-20 X 1/2" PHILIPS TRUSS HEAD, ZINC COATED
7	#8-32 X 1" SPANNER FLAT HEAD, STAINLESS STEEL
8	CRL POLYURETHANE CONSTRUCTION SEALANT, CAT. NO. M64

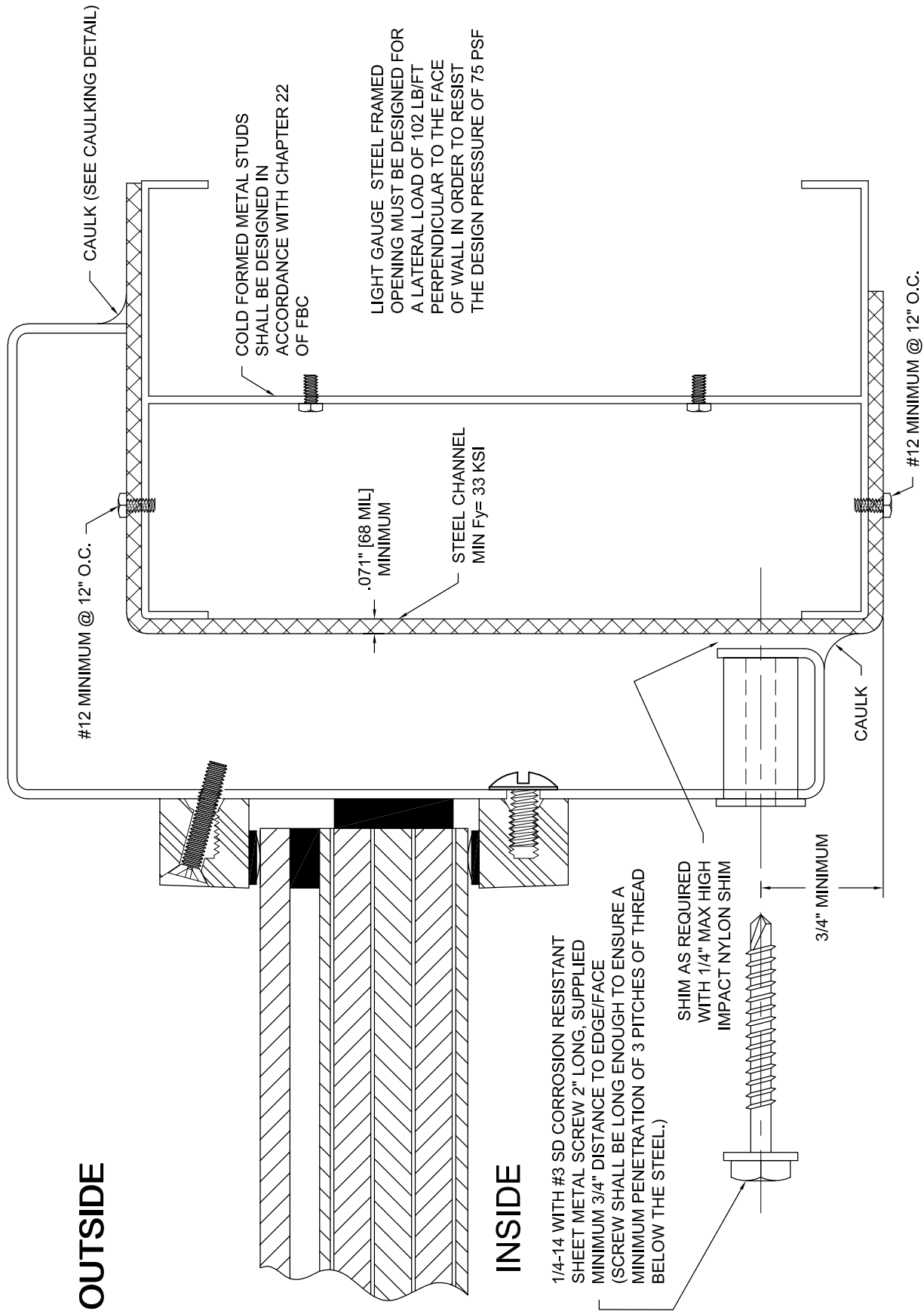
NO.	ECN
1	18554
2	23576



FASTENER INSTALLATION DETAIL: MASONRY, HEAD & JAMB

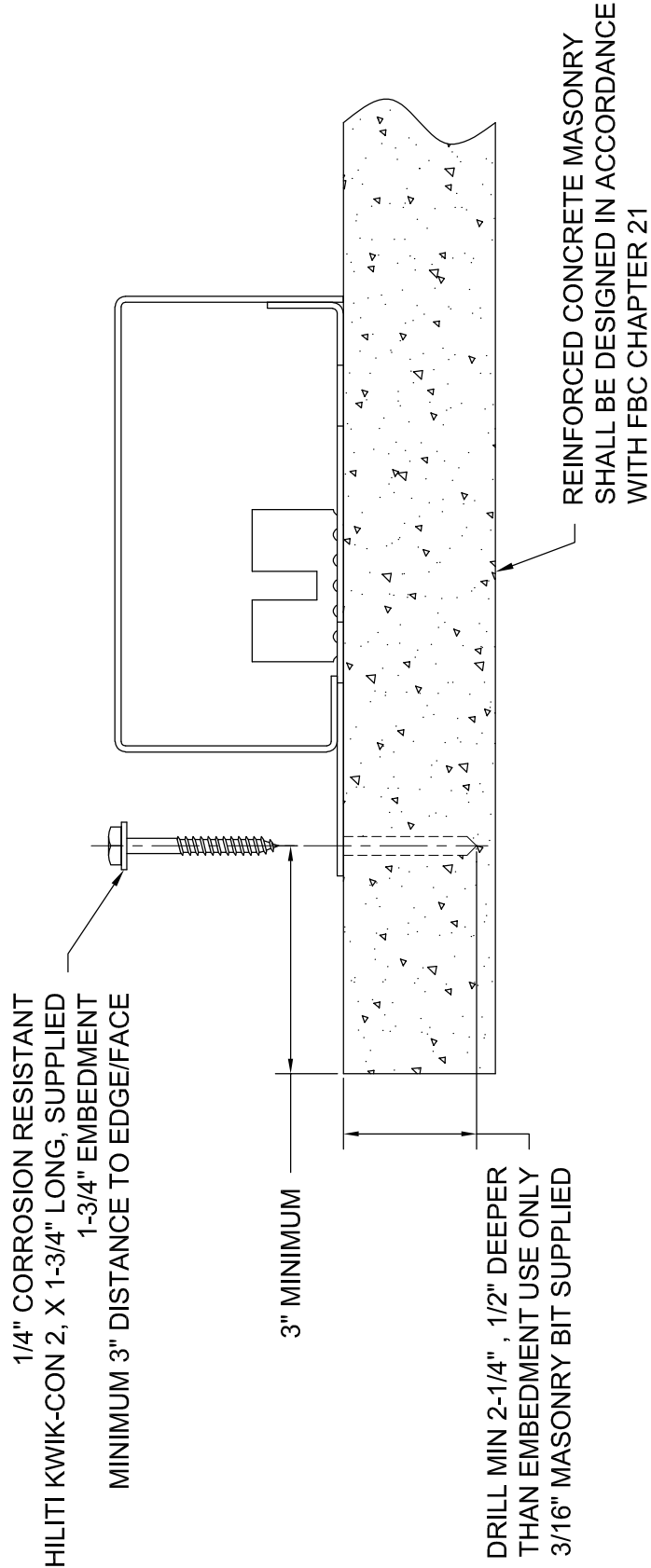


FASTENER INSTALLATION DETAIL: METAL, HEAD AND JAMB, FIELD VERIFIED



	E.F.BAVIS & ASSOC. INC.		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES DECIMALS: XX +-.01; .XXX +-.005 FRACTIONS: + - 1/32" ANGLES: + - 30' REMOVE ALL BURRS AND SHARP EDGES TO R .02 OR .02 X .02 CHAMFER MAX.		MODEL		12103993		PAGE	
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					REV.				COPYRIGHT 1996,2002 E.F.Bavis & Assoc. Inc.	
					DATE:					
FASTENER INSTALLATION DETAIL: SILL, MASONRY WALL, FIELD VERIFIED										

TO RESIST THE DESIGN PRESSURE OF 75 PSF,
THE MASONRY OPENING MUST BE DESIGNED
FOR A LATERAL LOAD OF 102 LB/FT
PERPENDICULAR TO THE FACE OF BLOCK

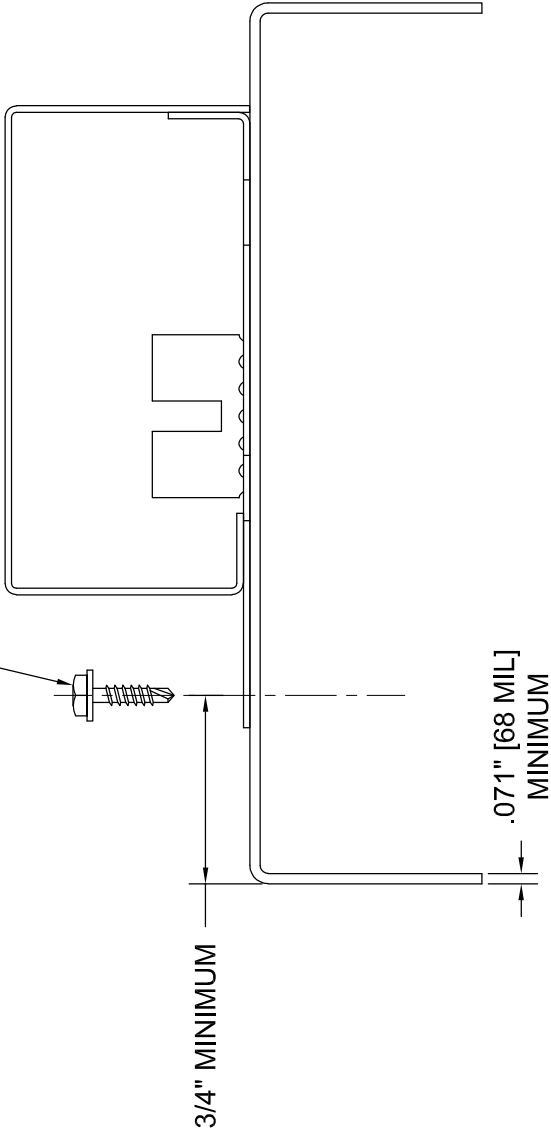


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FASTENER INSTALLATION DETAIL: SILL, METAL WALL, FIELD VERIFIED										

COLD FORMED METAL STUDS
SHALL BE DESIGNED IN
ACCORDANCE WITH CHAPTER 22
OF FBC

LIGHT GAUGE STEEL FRAMED
OPENING MUST BE DESIGNED FOR
A LATERAL LOAD OF 102 LB/FT
PERPENDICULAR TO THE FACE
OF WALL IN ORDER TO RESIST
THE DESIGN PRESSURE OF 75 PSF

1/4-14 WITH #3 SD SHEET METAL SCREW 1" LONG, SUPPLIED
MINIMUM 3/4" DISTANCE TO EDGE/FACE
(SCREW SHALL BE LONG ENOUGH TO ENSURE A MINIMUM
PENETRATION OF 3 PITCHES OF THREAD BELOW THE STEEL.)



MODEL	12103993	PAGE	15 OF 15
DWG.	8' WT-HUR	DATE CREATED	12/16/04 BAP
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DATE:			

8' FIXED WINDOW

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MAINEVILLE, OH. 45039 0337

PH 513-677-0500 FAX 513-677-0552

FINISH CAULKING, FIELD VERIFIED

