



AMCA 550 PERFORMANCE TEST REPORT



Arlen Fisher

DN: C=US,
E=afisher@qct-usa.com,
O=Quast Consulting and
Testing, CN=Arlen Fisher
Date: 2026.07.01
09:06:42-05'00'

Rendered To:
Pottorff, Inc.

QCT Project No.:
QCT24-7406

Series/Product:
ECV-645-MD

Test Date:
August 4, 2025

Report Date:
June 25, 2026

QUAST CONSULTING AND TESTING, INC.
Exterior Façade/Fenestration Consulting & Testing

1055 Indianhead Drive • P.O. Box 241 • Mosinee, WI 54455-0241 • Phone: 715-693-TEST (8378) • Fax: 715-693-0689
www.qct-usa.com

MANUFACTURER: Pottorff, Inc.
5101 Blue Mound Road
Fort Worth, TX 76106

SERIES/MODEL: ECV-645-MD
PRODUCT TYPE: Louver

Summary of Results	
Test Procedure/Standard	Details
ANSI/AMCA 550-15*	pass-fully open
ANSI/AMCA 550-22	pass-fully open

*Water distribution verification was performed in accordance with AMCA 550-22 only.

Reference Report No. QCT24-7406.03-R1 for complete specimen description and test results.



QCT24-7406.03-R1

REPORT DATE: 06/25/2026

TEST DATE: 08/04/2025

Project Summary:

Quast Consulting and Testing, Inc. was contracted by Pottorff, Inc. to perform testing per AMCA 550. The specimen was supplied by Pottorff, Inc. and was tested at Quast Consulting and Testing laboratory located in Mosinee, WI. Test specimen description and test results are reported herein.

Test Fixture:

The test fixture was designed and constructed in compliance with ANSI/AMCA 550

Calibration:

Wind Stream - Verified to be within +/- 10% of target 2/28/2025
Flow Meter - Verified to be within +/- 5% of actual 5/9/2025
Water Distribution - Verified to be within +/- 25% of average 2/28/25
Absorptive Material Quick Dam, WUBM-10
Nozzles to Test 8
Frame Distance (ft) 8
Wind Baffle to Test 8
Frame Distance (ft) 8

MPH	TIME (seconds)		Square Weight (lbs)				Water Flow Rate (gal/min)
			1	2	3	4	
35	25	Dry	0.11	0.11	0.11	0.11	4.39
		Wet	0.76	0.83	0.94	0.81	
		Water	0.65	0.72	0.83	0.70	
70	25	Dry	0.11	0.11	0.11	0.11	4.39
		Wet	0.91	0.99	0.98	0.97	
		Water	0.80	0.88	0.87	0.86	

Procedure:

Testing and reporting were conducted in accordance with:

ANSI/AMCA 550-15*	<i>Test Method for High Velocity Wind Driven Rain Resistant Louvers</i>
ANSI/AMCA 550-22	<i>Test Method for High Velocity Wind Driven Rain Resistant Louvers</i>

*Water distribution verification was performed in accordance with AMCA 550-22 only

Installation:

The louver was set from the exterior against galvanized steel angles, one at the center of each jamb, and one at the top left corner of the frame. One #10 x 1-1/2" long screws were used at the center of each jamb and one at the top of the left jamb to secure the louver to the test fixture. The perimeter of the louver was sealed to the test fixture with silicone sealant.

See Appendix A for specimen details.

QCT24-7406.03-R1



REPORT DATE: 06/25/2026
TEST DATE: 08/04/2025

List of Official Observers:

Name:	Company:
Jeff Zibton	Quast Consulting and Testing
Gunner Quast	Quast Consulting and Testing
Eric Jehn	Quast Consulting and Testing
Brent Farmer	Pottorff
Nolan Zaayer	Pottorff

Test Results:

Wind Driven Rain Resistance: PASS-fully open

MPH	35	70	90	110	Total	Allowable
Gallons Captured	0.00	0.01	0.01	0.00	0.02	--
Gallons Sprayed	65.90	65.80	67.32	23.42	222.44	--
% Collected	0.00	0.02	0.02	0.00	0.01	1.00



Front of the louver after testing.



Rear of the louver after testing.

Test specimen drawings have been reviewed by Quast Consulting and Testing, Inc., and are representative of the test specimen reported herein. Material compositions were supplied by the manufacturer and were not verified by QCT.

The reported results were secured using the designated test methods. Test results relate only to the specimen tested. Statements of conformity are determined using the simple acceptance decision rule per ILAC-G8:09-2019. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. This report is the exclusive property of the client so named herein and may not be reproduced, except in full, without the written approval of Quast Consulting and Testing, Inc.

Electronic records of data sheets, drawings, correspondence, this report, or other pertinent project documentation will be retained for a period of 10 years from the test report date. At the end of this retention period, such material shall be discarded without notice, and the service life of this report will expire.

QUAST CONSULTING and TESTING, INC.

QUAST CONSULTING and TESTING, INC.



Arlen Fisher P.E.
Author



Brian M. Sasman P.E.
Reviewer

Attachments:

Appendix A: As-Tested Drawings (4 pg.)

QCT24-7406.03-R1



REPORT DATE: 06/25/2026
TEST DATE: 08/04/2025

Revision Log

Revision #	Date	Description
QCT24-7406.03	08/13/2025	Original report issued to Pottorff, Inc.
QCT24-7406.03-R1	06/25/2026	Added compliance with AMCA 550-15

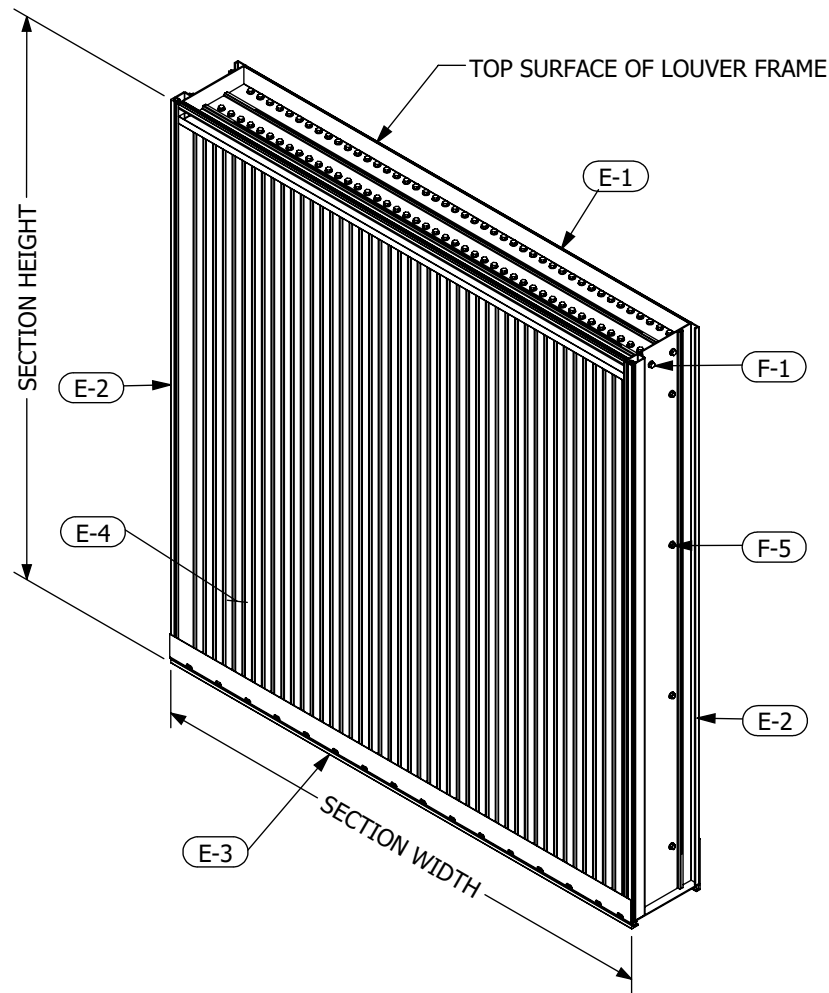
QCT24-7406.03-R1



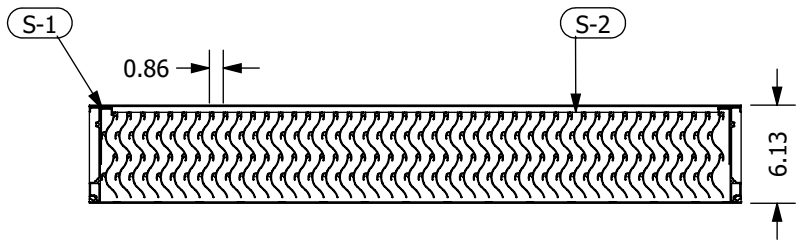
REPORT DATE: 06/25/2026
TEST DATE: 08/04/2025

Appendix A – As-Tested Drawings

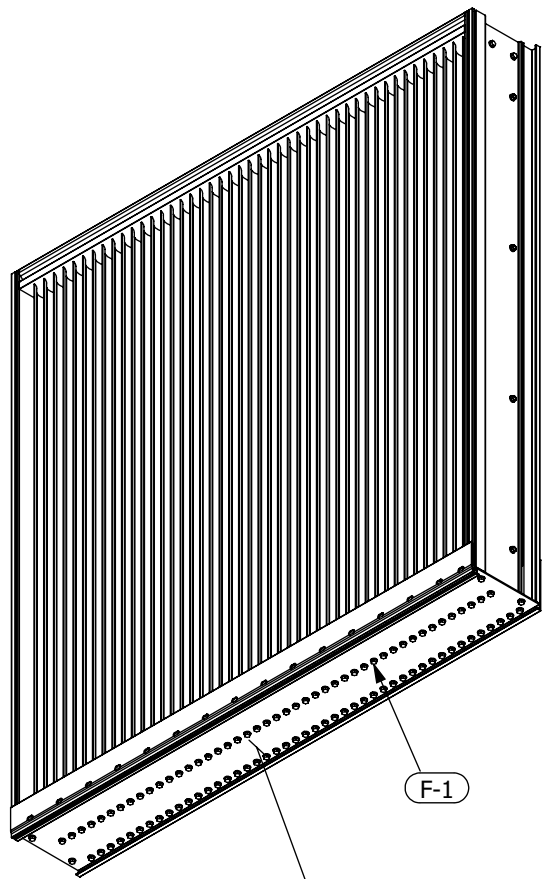
GENERIC LOUVER CONSTRUCTION



FRONT/EXTERIOR
ISOMETRIC VIEW



TOP
SECTION VIEW



FRONT/EXTERIOR
ISOMETRIC VIEW

I:\Engineering Library\Engineering Projects\EP 24-01; ECV-645-MD Redesign\Testing\Outside Testing\Test Installation Drawing\				DRAWING DESCR: GENERIC LOUVER ASSEMBLY				
				PROJECT: ECV-645-MD REDESIGN TESTING				
				LOCATION:				
				CUSTOMER: QUAST CONSULTING & TESTING				
PROJ. MGR.:			DRAWN BY: NWW					
DATE: 1/19/2024	CHK'D BY:		ORDER NUMBER	P.O. NUMBER	DRAWING NUMBER			
SHEET: 1 of 4	SCALE: VARIES				-1			

B	UPDATED MODEL WITH NEW BLADE CONFIGURATION	8/7/2025	BTF
A	INITIAL RELEASE	8/12/2024	BTF
REV.	DESCRIPTION	DATE	DRAWN BY

UNLESS OTHERWISE SPECIFIED
DIMENSION ARE IN INCHES

TOLERANCE UNLESS NOTED:
X.X ±0.060
X.XX ±0.030
X.XXX ±0.010
ANGLE ±1°
FRACTION ±1/16

MAX HOLE BREAKOUT:
15% OF MATERIAL THICKNESS

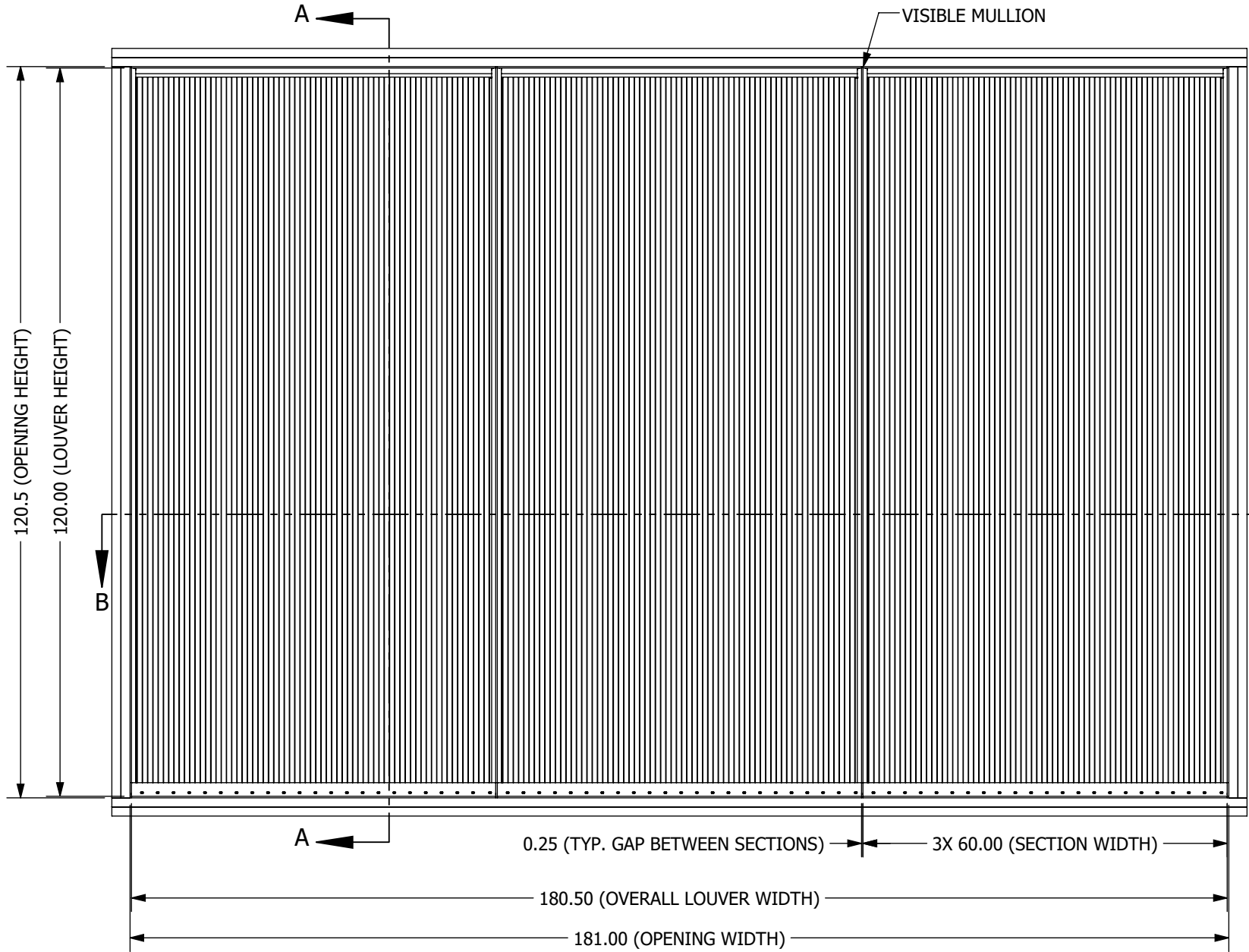
5101 Blue Mound Road
Fort Worth, Texas 76106
Phone: 817-509-2300
Fax: 817-831-3110

THIRD ANGLE PROJECTION

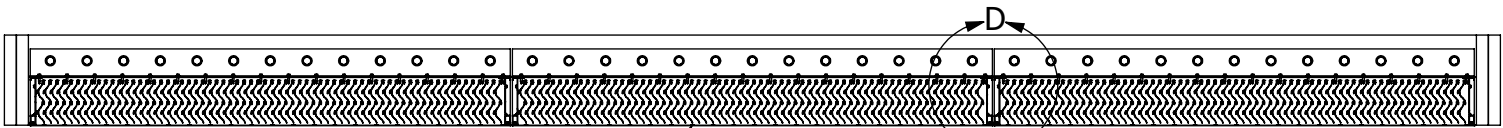
POTTORFF®

THIS DRAWING AND THE DESIGN REPRESENTED ARE THE CONFIDENTIAL AND PROPRIETARY PROPERTY OF PCI INDUSTRIES AND MAY NOT BE DISCLOSED, LOANED, COPIED, OR USED FOR ANY PURPOSE OTHER THAN DESIGN REVIEW AND APPROVAL WITHOUT THE EXPRESS WRITTEN CONSENT OF PCI INDUSTRIES.

INSTALLATION DETAILS, MULTI-WIDE ASSEMBLY
(SAMPLE 1)



FRONT/EXTERIOR VIEW



SECTION B-B

LOUVER ASSEMBLY CONSISTS OF THREE DISCRETE
PANELS (SECTIONS) ARRANGED SIDE BY SIDE.
APPROXIMATE WEIGHT PER SECTION IS 385 LBS.

I:\Engineering Library\Engineering Projects\EP 24-01; ECV-645-MD Redesign\Testing\Outside Testing\Test Installation Drawing\

UNLESS OTHERWISE SPECIFIED
DIMENSION ARE IN INCHES

TOLERANCE UNLESS NOTED:

X.X ±0.060
X.XX ±0.030
X.XXX ±0.010
ANGLE ±1°
FRACTION ±1/16

MAX HOLE BREAKOUT:
15% OF MATERIAL THICKNESS

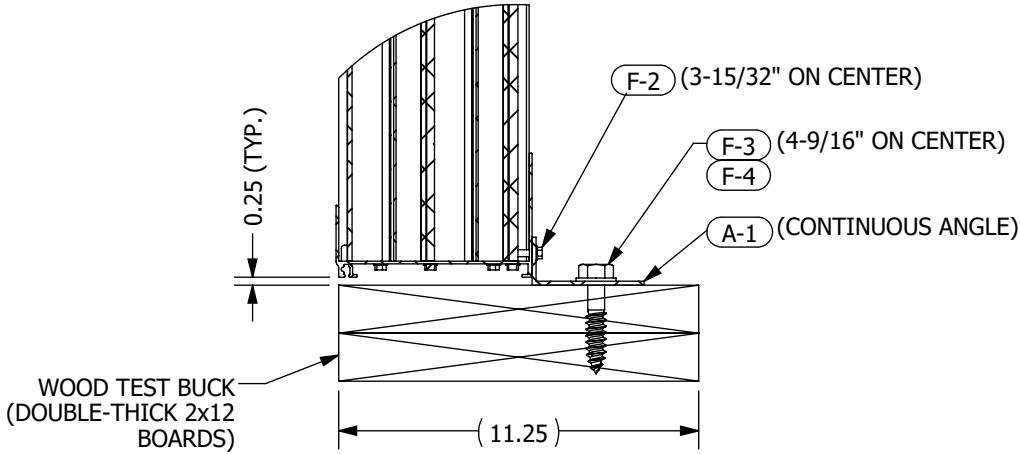
5101 Blue Mound Road
Fort Worth, Texas 76106
Phone: 817-509-2300
Fax: 817-831-3110

THIRD ANGLE PROJECTION

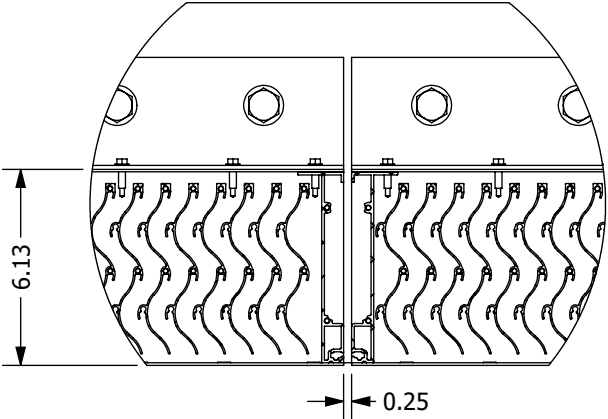
POTTORFF®

THIS DRAWING AND THE DESIGN REPRESENTED ARE
THE CONFIDENTIAL AND PROPRIETARY PROPERTY OF
PCI INDUSTRIES AND MAY NOT BE DISCLOSED, LOANED,
COPIED, OR USED FOR ANY PURPOSE OTHER THAN DESIGN
REVIEW AND APPROVAL WITHOUT THE EXPRESS WRITTEN
CONSENT OF PCI INDUSTRIES.

DRAWING DESC: INSTALLATION DETAILS, MULTI-WIDE ASSEMBLY				
PROJECT: ECV-645-MD REDESIGN TESTING				
LOCATION:				
CUSTOMER: QUAST CONSULTING & TESTING				
PROJ. MGR.:			DRAWN BY: NWW	
DATE: 1/19/2024	CHK'D BY:	ORDER NUMBER	P.O. NUMBER	DRAWING NUMBER
SHEET: 2 of 4	SCALE: 1:24			-2



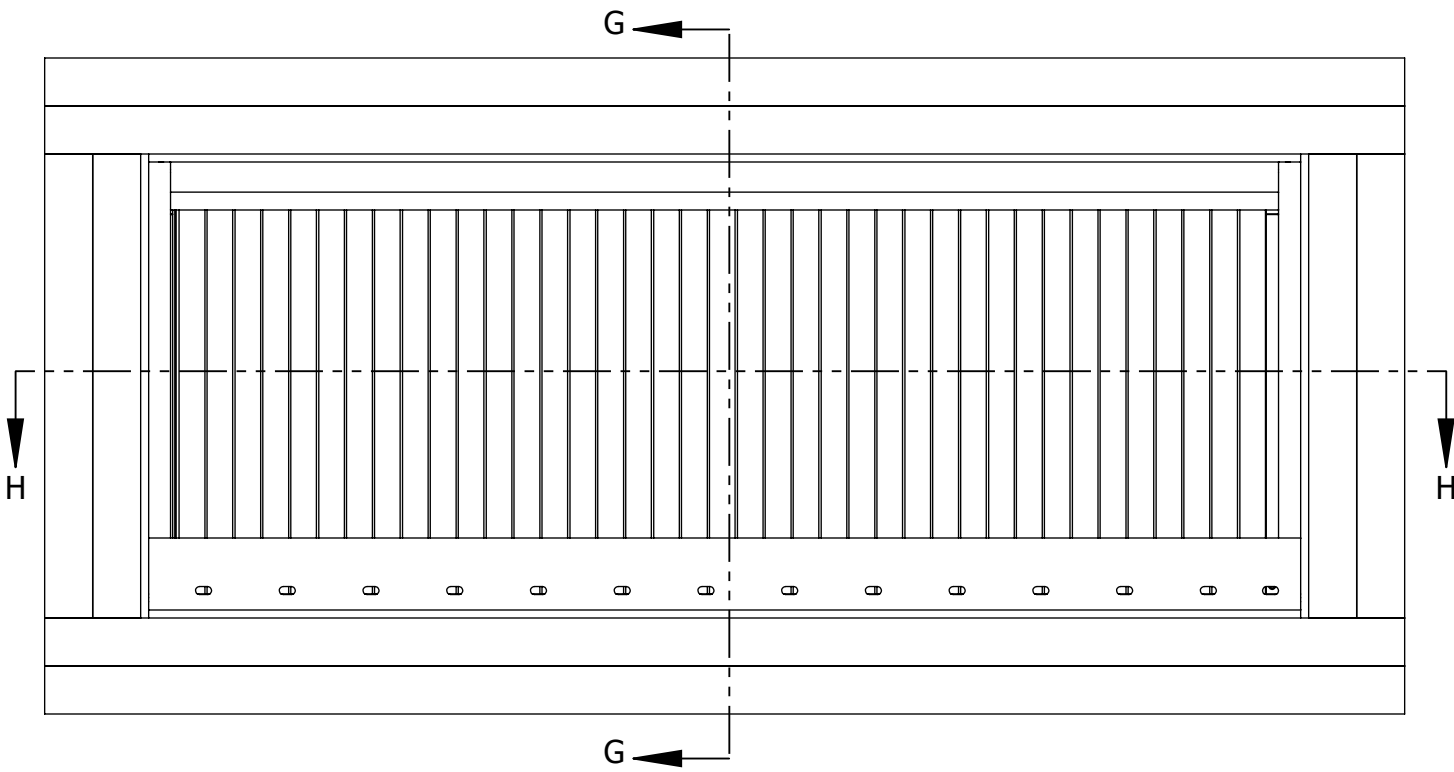
DETAIL C
SCALE 1 : 6
(TOP & BOTTOM
ATTACHMENT)



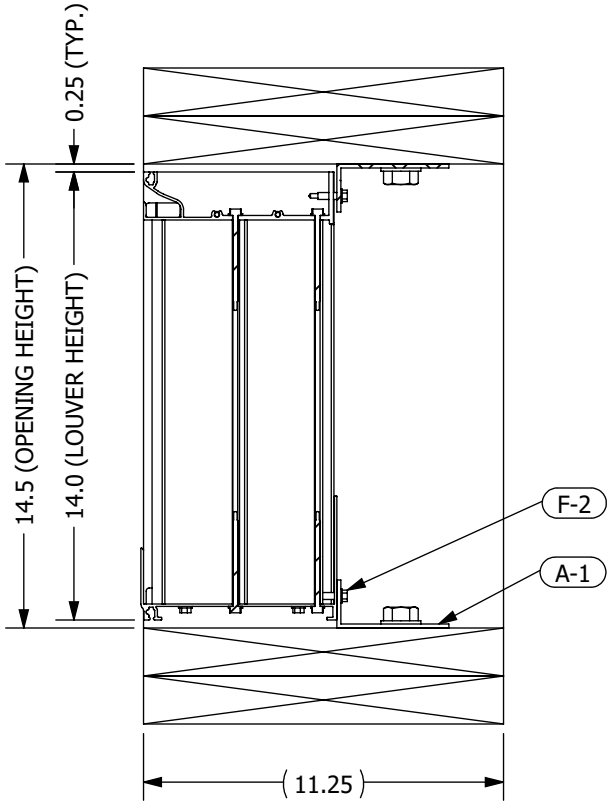
DETAIL D
SCALE 1 : 6
(VISIBLE MULLION)

B	UPDATED MODEL WITH NEW BLADE CONFIGURATION	8/7/2025	BTF
A	INITIAL RELEASE	8/12/2024	BTF
REV.	DESCRIPTION	DATE	DRAWN BY

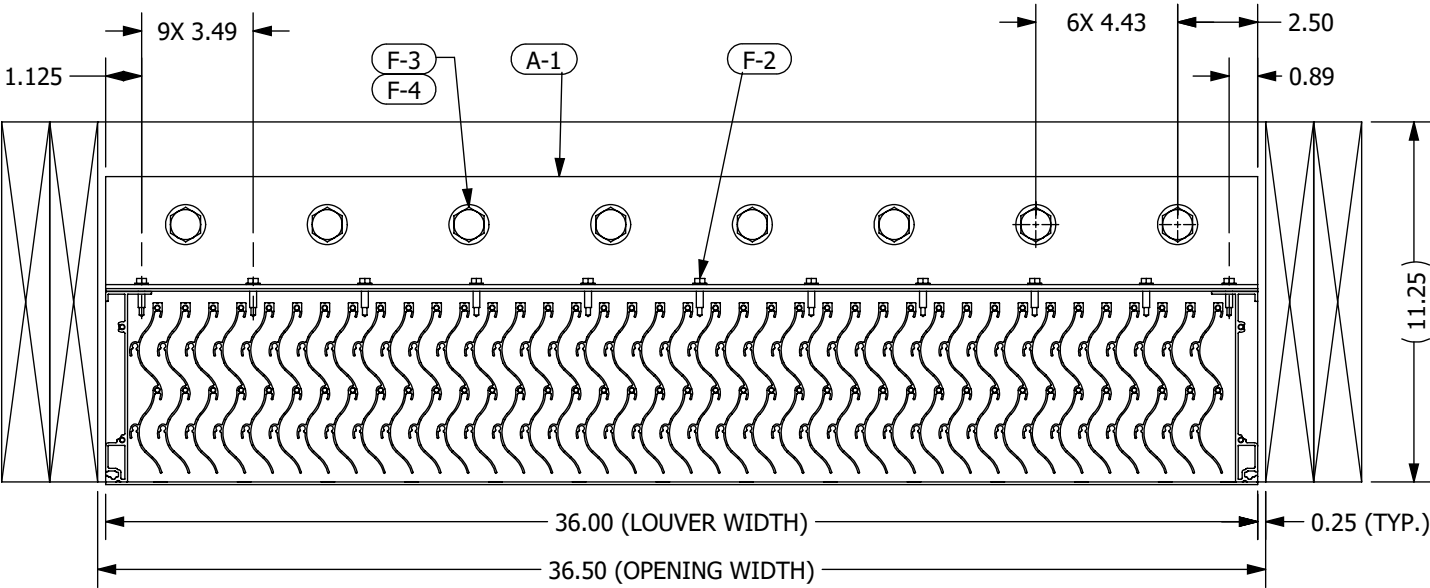
INSTALLATION DETAILS, MINIMUM-HEIGHT SINGLE-SECTION
(SAMPLE 2)



FRONT/EXTERIOR VIEW



SECTION G-G



SECTION H-H

B	UPDATED MODEL WITH NEW BLADE CONFIGURATION	8/7/2025	BTF
A	INITIAL RELEASE	8/12/2024	BTF
REV.	DESCRIPTION	DATE	DRAWN BY

I:\Engineering Library\Engineering Projects\EP 24-01; ECV-645-MD Redesign\Testing\Outside Testing\Test Installation Drawing\

UNLESS OTHERWISE SPECIFIED
DIMENSION ARE IN INCHES

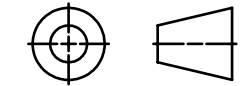
TOLERANCE UNLESS NOTED:

X.X	±0.060
X.XX	±0.030
X.XXX	±0.010
ANGLE	±1°
FRACTION	±1/16

MAX HOLE BREAKOUT:
15% OF MATERIAL THICKNESS

5101 Blue Mound Road
Fort Worth, Texas 76106
Phone: 817-509-2300
Fax: 817-831-3110

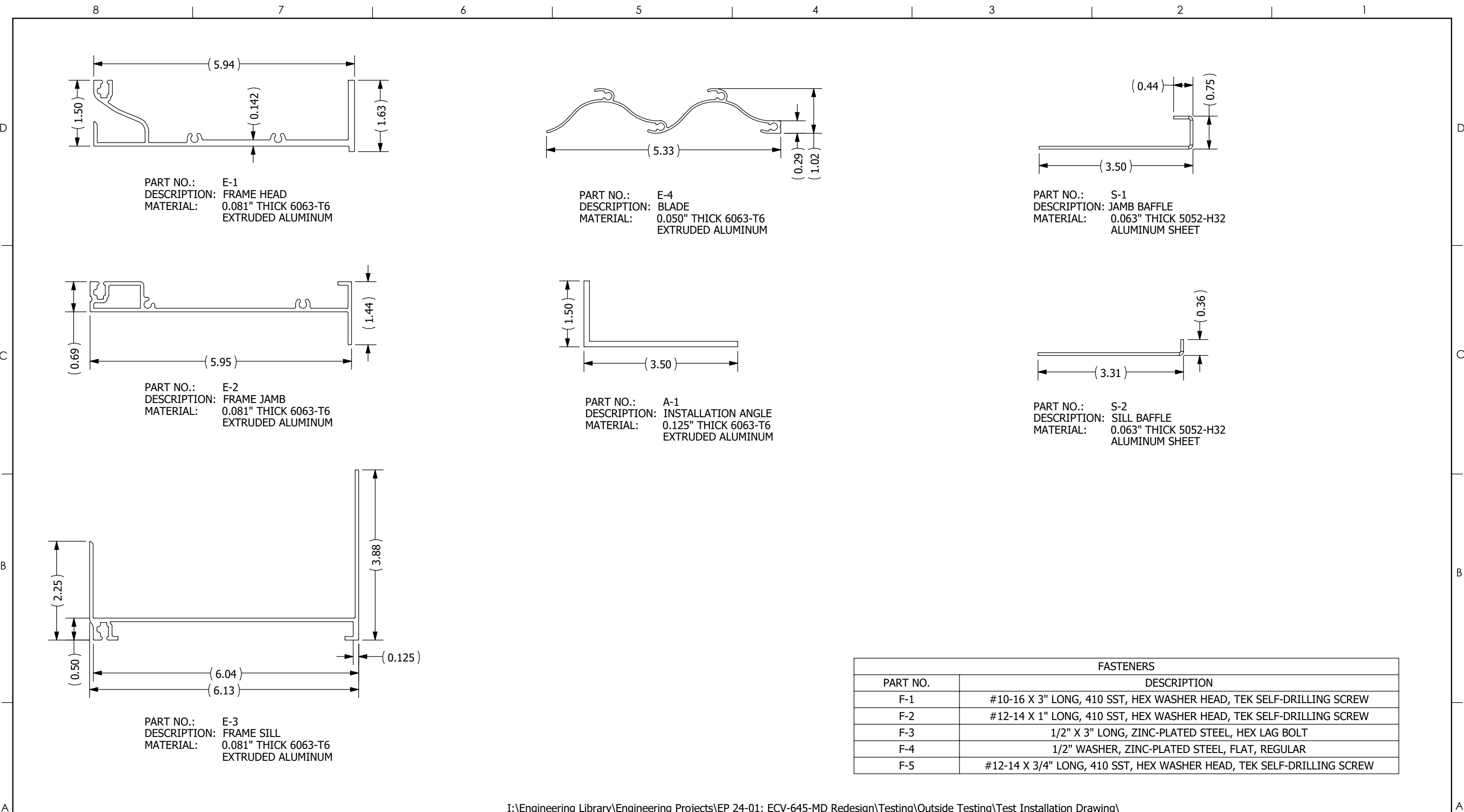
THIRD ANGLE PROJECTION



POTTORFF®

THIS DRAWING AND THE DESIGN REPRESENTED ARE
THE CONFIDENTIAL AND PROPRIETARY PROPERTY OF
PCI INDUSTRIES AND MAY NOT BE DISCLOSED, LOANED,
COPIED, OR USED FOR ANY PURPOSE OTHER THAN DESIGN
REVIEW AND APPROVAL WITHOUT THE EXPRESS WRITTEN
CONSENT OF PCI INDUSTRIES.

DRAWING DESCR: INSTALLATION DETAILS, MINIMUM-HEIGHT SINGLE SECTION				
PROJECT: ECV-645-MD REDESIGN TESTING				
LOCATION:				
CUSTOMER: QUAST CONSULTING & TESTING				
PROJ. MGR.:			DRAWN BY: NWW	
DATE: 1/19/2024	CHK'D BY:	ORDER NUMBER	P.O. NUMBER	DRAWING NUMBER
SHEET: 3 of 4	SCALE: 1:8			-3



PART NO.: E-1
DESCRIPTION: FRAME HEAD
MATERIAL: 0.081" THICK 6063-T6
EXTRUDED ALUMINUM

PART NO.: E-4
DESCRIPTION: BLADE
MATERIAL: 0.050" THICK 6063-T6
EXTRUDED ALUMINUM

PART NO.: S-1
DESCRIPTION: JAMB BAFFLE
MATERIAL: 0.063" THICK 5052-H32
ALUMINUM SHEET

PART NO.: E-2
DESCRIPTION: FRAME JAMB
MATERIAL: 0.081" THICK 6063-T6
EXTRUDED ALUMINUM

PART NO.: A-1
DESCRIPTION: INSTALLATION ANGLE
MATERIAL: 0.125" THICK 6063-T6
EXTRUDED ALUMINUM

PART NO.: S-2
DESCRIPTION: SILL BAFFLE
MATERIAL: 0.063" THICK 5052-H32
ALUMINUM SHEET

PART NO.: E-3
DESCRIPTION: FRAME SILL
MATERIAL: 0.081" THICK 6063-T6
EXTRUDED ALUMINUM

FASTENERS	
PART NO.	DESCRIPTION
F-1	#10-16 X 3" LONG, 410 SST, HEX WASHER HEAD, TEK SELF-DRILLING SCREW
F-2	#12-14 X 1" LONG, 410 SST, HEX WASHER HEAD, TEK SELF-DRILLING SCREW
F-3	1/2" X 3" LONG, ZINC-PLATED STEEL, HEX LAG BOLT
F-4	1/2" WASHER, ZINC-PLATED STEEL, FLAT, REGULAR
F-5	#12-14 X 3/4" LONG, 410 SST, HEX WASHER HEAD, TEK SELF-DRILLING SCREW

I:\Engineering Library\Engineering Projects\EP 24-01; ECV-645-MD Redesign\Testing\Outside Testing\Test Installation Drawing\				DRAWING DESCR: BILL OF MATERIALS				
				PROJECT: ECV-645-MD REDESIGN TESTING				
				LOCATION:				
				CUSTOMER: QUAST CONSULTING & TESTING				
				PROJ. MGR.:		DRAWN BY: NWW		
DATE: 1/19/2024		CHK'D BY:		ORDER NUMBER		P.O. NUMBER		DRAWING NUMBER
SHEET: 4 of 4		SCALE: 1:2						-4

B	UPDATED MODEL WITH NEW BLADE CONFIGURATION	8/7/2025	BTF
A	INITIAL RELEASE	8/12/2024	BTF
REV.	DESCRIPTION	DATE	DRAWN BY

UNLESS OTHERWISE SPECIFIED DIMENSION ARE IN INCHES				5101 Blue Mound Road Fort Worth, Texas 76106 Phone: 817-509-2300 Fax: 817-831-3110	
TOLERANCE UNLESS NOTED: X.X ±0.060 X.XX ±0.030 X.XXX ±0.010 ANGLE ±1° FRACTION ±1/16				THIRD ANGLE PROJECTION	
MAX HOLE BREAKOUT: 15% OF MATERIAL THICKNESS				THIS DRAWING AND THE DESIGN REPRESENTED ARE THE CONFIDENTIAL AND PROPRIETARY PROPERTY OF PCI INDUSTRIES AND MAY NOT BE DISCLOSED, LOANED, COPIED, OR USED FOR ANY PURPOSE OTHER THAN DESIGN REVIEW AND APPROVAL WITHOUT THE EXPRESS WRITTEN CONSENT OF PCI INDUSTRIES.	