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

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

NOTICE OF ACCEPTANCE (NOA)

Construction Specialties, Inc.
49 Meeker Avenue
Cranford, NJ 07016

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 DCPL-3704 Aluminum Louver

APPROVAL DOCUMENT: Drawing No. **RD–312**, titled "DCPL-3704", sheets 1 through 7 of 7, dated 05/01/2024, prepared by Construction Specialties Inc., signed and sealed by Wayne K. Helmila, P.E. on 11/04/2024, bearing the Miami-Dade County Product Control approval 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 consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

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

MIAMI-DADE COUNTY APPROVED

12/05/24

NOA No. 24-0926.04
Expiration Date: December 12, 2029
Approval Date: December 12, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **RD–312**, titled "DCPL-3704", sheets 1 through 7 of 7, dated 05/01/2024, prepared by Construction Specialties Inc., signed and sealed by Wayne K. Helmila, P.E. on 11/04/2024.

B. TESTS

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 DCPL-3704 Louvers, prepared by Intertek, Test Report No. **Q4541.01-109-18**, dated 01/15/2024, signed and sealed by Tanya A. Dolby, P.E.

2. Test report on High Velocity Wind-Driven Rain Resistant Louvers per AMCA 550-15 (Rev. 09-18) of its DCPL-3704 Louver, prepared by Intertek, Test Report No. **N4177.02-801-41 (R1),** dated 09/28/2022 and revised on 11/06/2024, signed and sealed by Tyler Westerling, P.E.

C. CALCULATIONS

1. DCPL-3704 MD louver anchor calculation, prepared by Rice Engineering, dated 03/13/2024, signed and sealed by Wayne K. Helmila, 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 8th edition (2023) of the FBC, issued Rice Engineering, dated 09/05/2024, signed and sealed by Wayne K. Helmila, P.E.

2. Statement letter of no financial interest, issued by Rice Engineering, dated 09/05/2024, signed and sealed by Wayne K. Helmila, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 24-0926.04
Expiration Date: December 12, 2029
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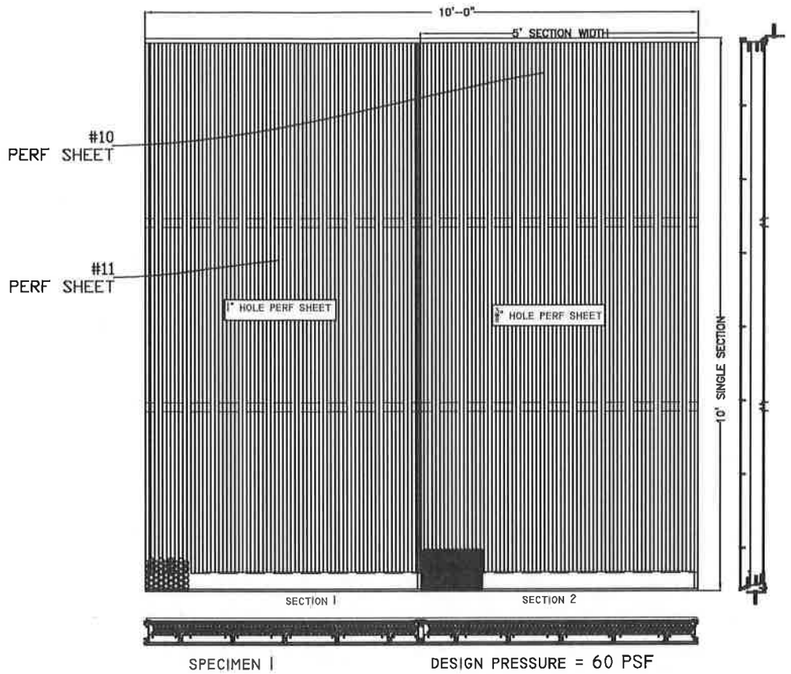
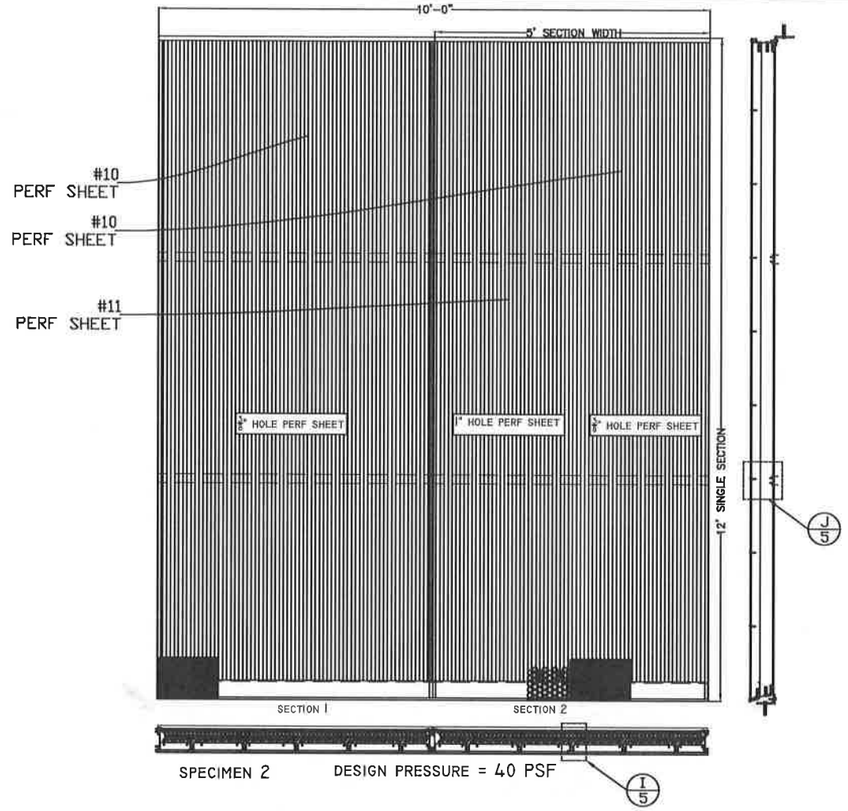


SPECIMEN 1 DESIGN PRESSURE = 60 PSF

PERF SHEET SPLICE AT MULLION



SPECIMEN 2 DESIGN PRESSURE = 40 PSF

PERF SHEET SPLICE AT MULLION AND MIDDLE OF SECTION 2

PRODUCT APPROVED
as complying with the Florida Building Code
NOA-No. 24-0926.04
Approval Date 12/12/2024
By
Miami-Dade Product Control

WAYNE K. HELMILA
LICENSE
No. 59092
STATE OF FLORIDA
PROFESSIONAL ENGINEER

NOV 0 4 2024

1) It shall be the responsibility of the Structural Engineer of Record to verify the capacity of the structure to support the loads imposed by the louvers.
2) These louvers have been designed according to the Florida Building Code and the Aluminum Design Manual. They are tested in accordance with Dade County protocols TAS 201(missile level E), TAS 202 and TAS 203.
3) All fasteners shall be stainless steel Series 300, condition CW Fy = 65 ksi, Fu = 110 ksi minimum except the fasteners specified in note 10 of this sheet 1.
4) Concrete strength is assumed to be f'c = 4000 psi cracked, normal weight. Grout filled CMU, 1,500 psi minimum
5) Section widths and heights are limited as shown in elevations and details.
6) Each fastener used must be detailed on the drawing and verified on the NOA.
7) Separation of unpainted aluminum and dissimilar materials to be maintained by the installer.
8) This louver system has been tested, analyzed and approved for design pressures up to and including +/-140 PSF. See table 2 on sheet 6 0f 7 these drawings for height vs windload guidelines.
9) Stack sections horizontally to an unlimited opening width. No additional vertical structure is required. For stacking louvers horizontally, mullion spacing can be up to 8 ft O.C. for louvers 5 ft tall or less. For louvers above 5 ft tall, mullion spacing is limited to 5 ft max. See detail H/4
10) Louver Construction - Head, sill and jambs are constructed of extruded aluminum. The corners are coped and butted, secured with (2) #10 x 2" hex head screws at each corner, through the head and sill into the jambs. Jambs run between head and sill. Blades are secured to the head and sill using (2) #10 x 2" hex head screws for the 3" blade and (3) #10 x 2" hex head screws for the 5" blade.
11) THE DCPL-3704 WAS TESTED UTILIZING THE TEST PROTOCOL AND CONDITOINS OF AMCA 550 WITH THE EXCEPTION THAT THE LOUVER WAS TESTED WITH PERFORATED PLATE ACROSS THE AIRFLOW, WHICH IS CURRENTLY NOT INCLUDED IN THE TEST PROTOCOL. LESS THAN 1% OF THE TOTAL WATER PENETRATED THROUGH THE LOUVER AND PERFORATED PLATE THROUGHOUT THE DURATION OF THE TEST. AMCA 550 only applies to square/rectangular louvers. Silicone sealant is required to seal the louvers into the opening based on testing in accordance with AMCA 550. Per the testing to AMCA 550, a sill pan is required on all louvers and to be a minimum of 4" tall. PASSING AMCA 550 SIGNIFICANTLY REDUCES RAIN PENETRATING THE SPACE BEHIND THE LOUVERS. PER MIAMI-DADE D.R.E.R.: THE LOUVER MAY BE INSTALLED IN A LOCATION WHERE THE ROOM BEHIND THE LOUVER IS NOT DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM AND THE ROOM WILL HOUSE NON WATERPROOF OR NON WATER RESISTANT EQUIPMENT, COMPONENTS OR SUPPLIES.
12) A horizontal blade strap at midpoint is required if section height is greater than 60" and two horizontal blade straps are required at third-points for section heights greater than 10' but less than the max section height of 12'.
13) All louvers can use 3/8" hole pattern perf sheet or 1" hole pattern perf sheet.

RICE
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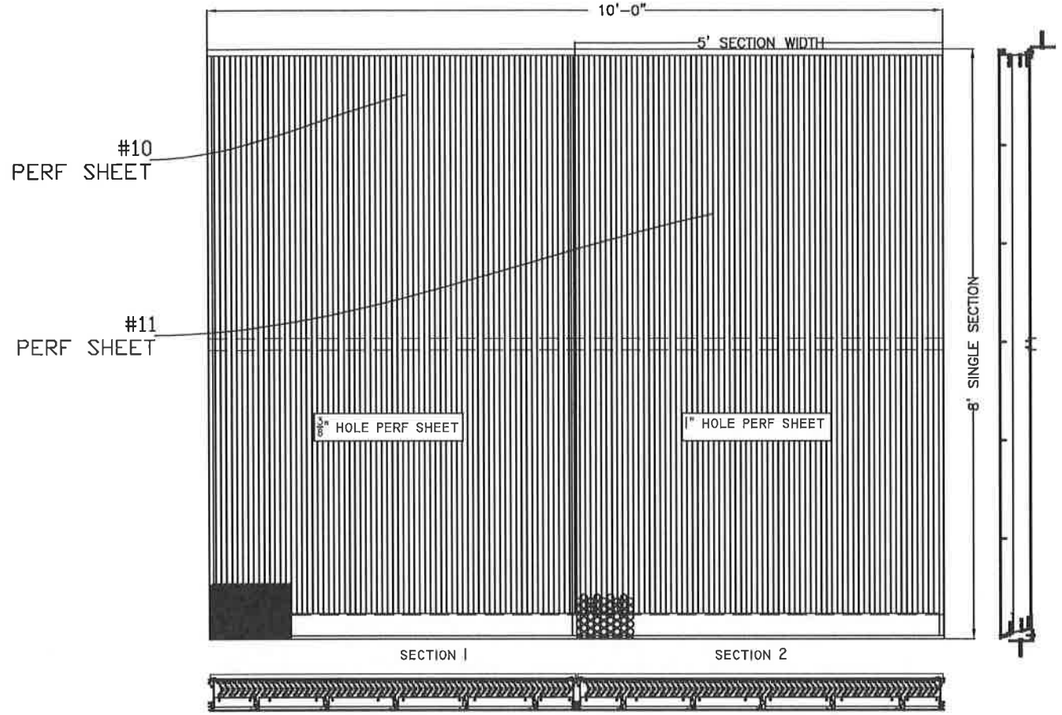
Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092

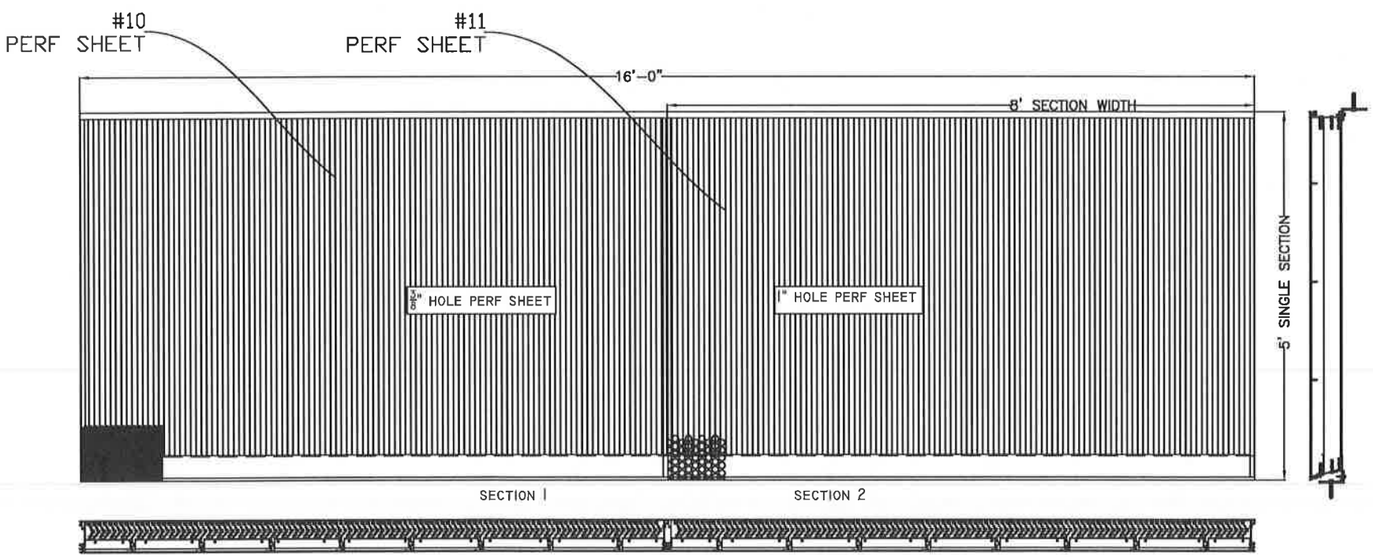
REVISION:	
DATE: 5-1-2024	
SHEET: 1 OF 7	
DRW NO : RD-312-I	
PROJECT: DCPL-3704	
TITLE: SUBMITTAL DRAWINGS - SPEC 1 & 2	
SCALE: 3/8" = 1'	
DRW BY: J BLAKE	

CS Construction Specialties"
3 WERNER WAY, LEBANON, NEW JERSEY
PHONE: 1-800-233-8493



SPECIMEN 3
PERF SHEET SPLICE AT MULLION

DESIGN PRESSURE = 100 PSF



SPECIMEN 4
PERF SHEET SPLICE AT MULLION

DESIGN PRESSURE = 140 PSF

PRODUCT APPROVED
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NOA-No. 24-0926.04
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By
Miami-Dade Product Control

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PROFESSIONAL ENGINEER

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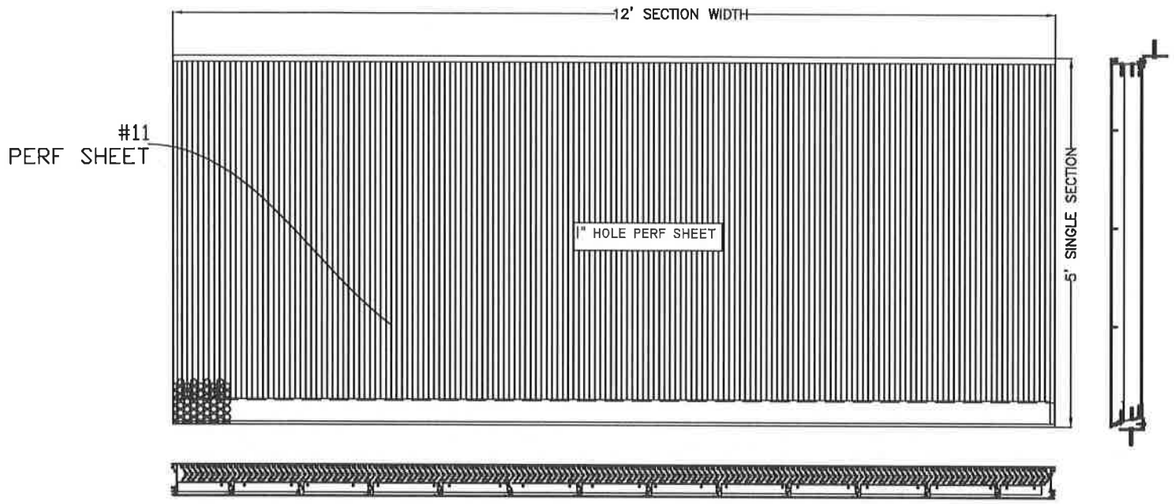
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092

PROJECT: DCPL-3704	REVISION:
TITLE: SUBMITTAL DRAWINGS - SPEC 3 & 4	DATE: 5-1-2024
SCALE: 1/2" = 1'	SHEET: 2 OF 7
DRW BY: J BLAKE	DRW NO : RD-312-2

Construction Specialties
3 WERNER WAY, LEBANON, NEW JERSEY
PHONE: 1-800-233-8493



SPECIMEN 5
NO PERF SHEET SPLICE

DESIGN PRESSURE = 140 PSF

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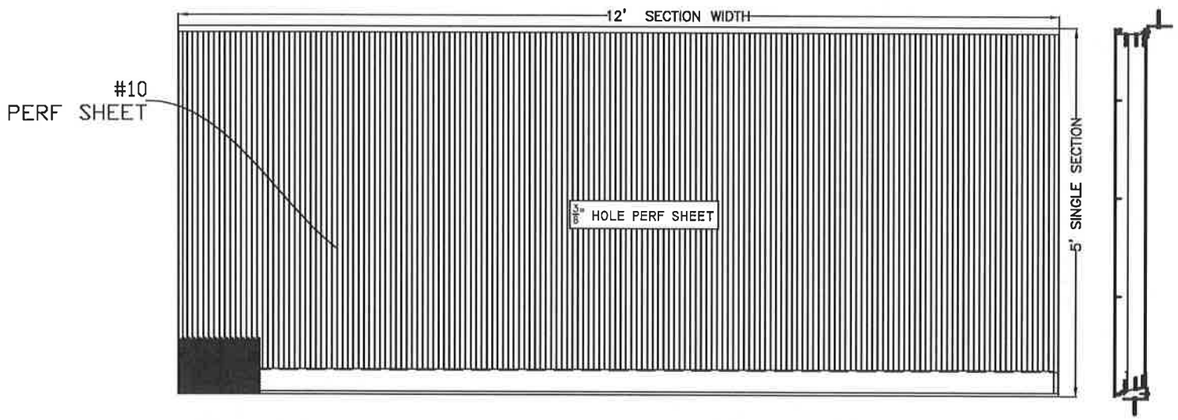
PROFESSIONAL ENGINEER

NOV 0 4 2024



SPECIMEN 6
NO PERF SHEET SPLICE

DESIGN PRESSURE = 140 PSF

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Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092

REVISION:
DATE: 5-1-2024
SHEET: 3 OF 7
DRW NO : RD-312-3
PROJECT: DCPL-3704
TITLE: SUBMITTAL DRAWINGS - SPEC 5 & 6
SCALE: 1/2" = 1'
DRW BY: J BLAKE

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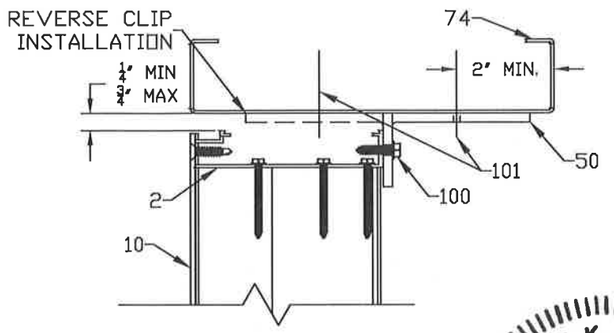
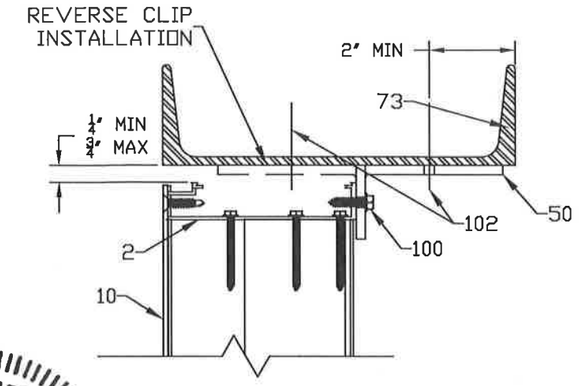
PHONE: 1-800-233-8493

ALL SUBSTRATES SHOWN BELOW CAN BE USED FOR HEAD AND/OR SILL CONDTIONS.

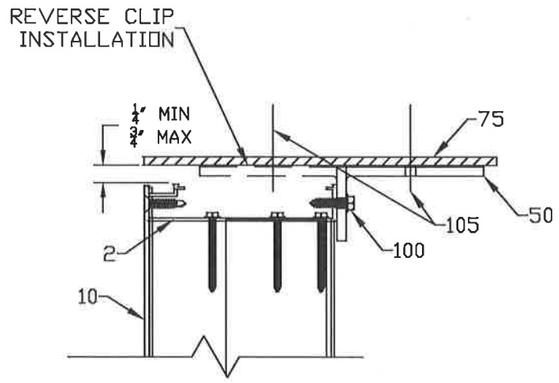


16 Ga MINIMUM STEEL STUD
Detail (A/4)



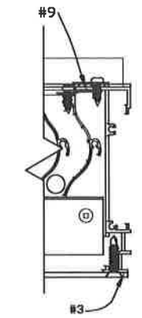
3/16" MINIMUM STRUCTURAL STEEL
Detail (B/4)

ALL STEEL SHAPES ACCEPTABLE



1/8" MINIMUM ALUMINUM
Detail (C/4)

ALL ALUMINUM SHAPES ACCEPTABLE



Jamb Detail (D/4)

NO ATTACHMENT TO STRUCTURE REQUIRED AT JAMBS

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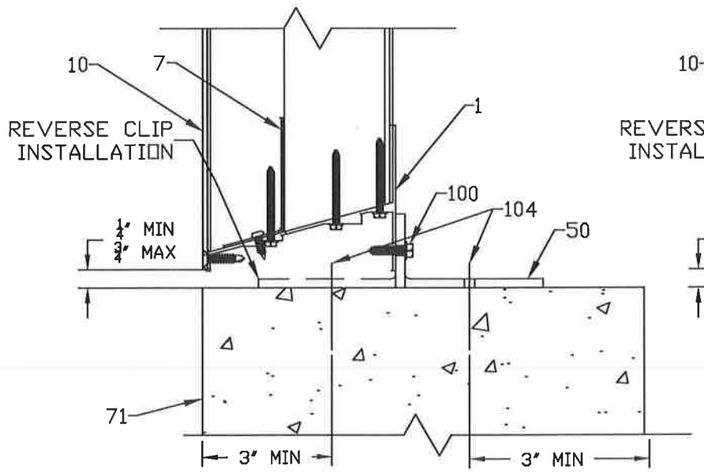
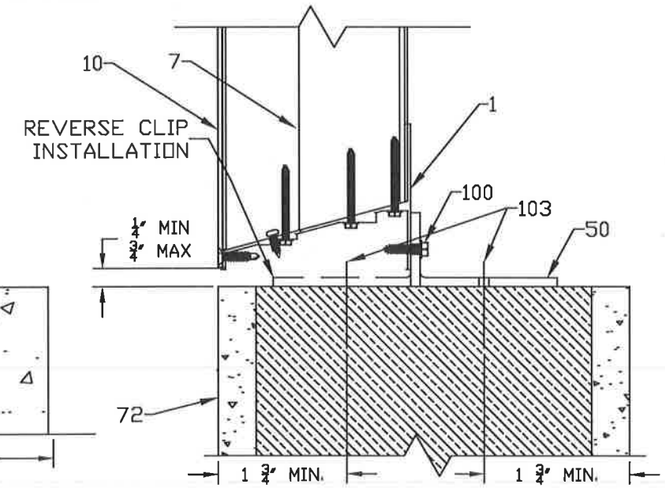
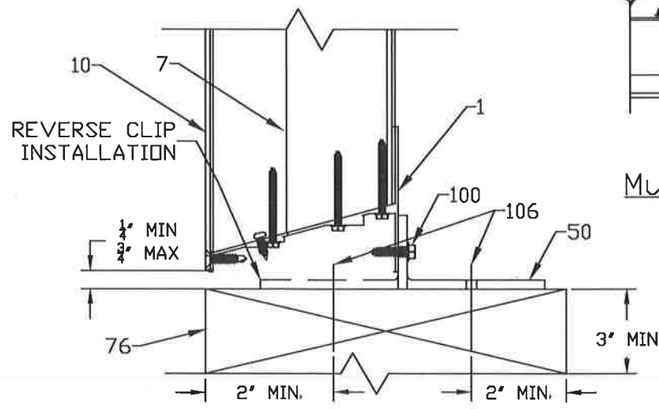
NOV 0 4 2024



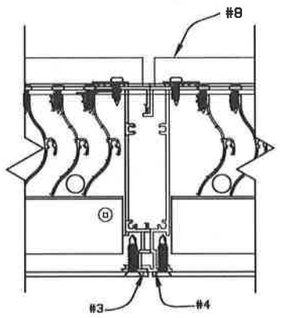
4000 PSI MIN CONCRETE
Detail (E/4)



GROUT FILLED CMU (1,500 PSI)
Detail (F/4)



WOOD
G=0.42 MIN.
Detail (G/4)



Mullion Detail (H/4)

NO ATTACHMENT TO STRUCTURE REQUIRED AT MULLIONS

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Wayne K. Helmila
Registration No: 59092

PROJECT: DCPL-3704
REVISION:
TITLE: SUBMITTAL DRAWINGS - MOUNTING DETAILS
DATE: 5-1-2024
SCALE: 3" = 1'
SHEET: 4 OF 7
DRW BY: J BLAKE
DRW NO : RD-312-4

Construction Specialties™
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PRODUCT APPROVED
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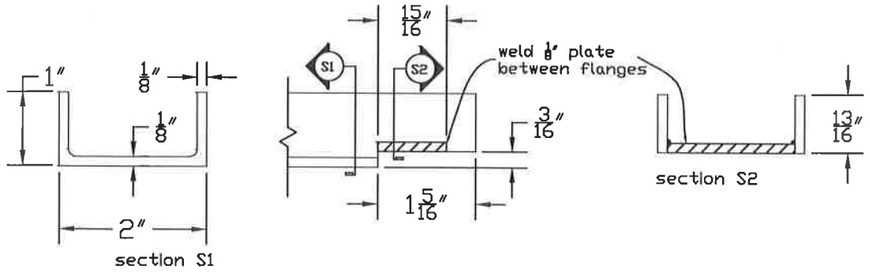
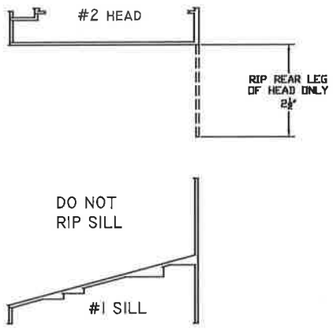
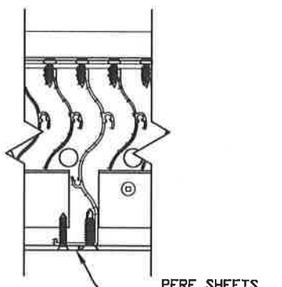


#8 BLADE SUPPORT
2" X 1" ALUMINUM CHANNEL 6061-T6

WAYNE K. HELMILA LICENSE No. 59092 STATE OF FLORIDA PROFESSIONAL ENGINEER

NOV 0 4 2024



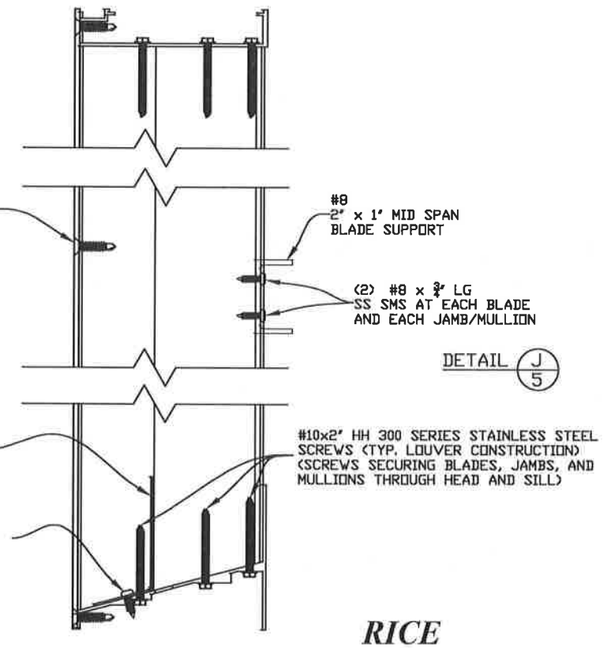


DETAIL (I/5)

FASTENERS HOLDING PERF SHEET TO FRAME

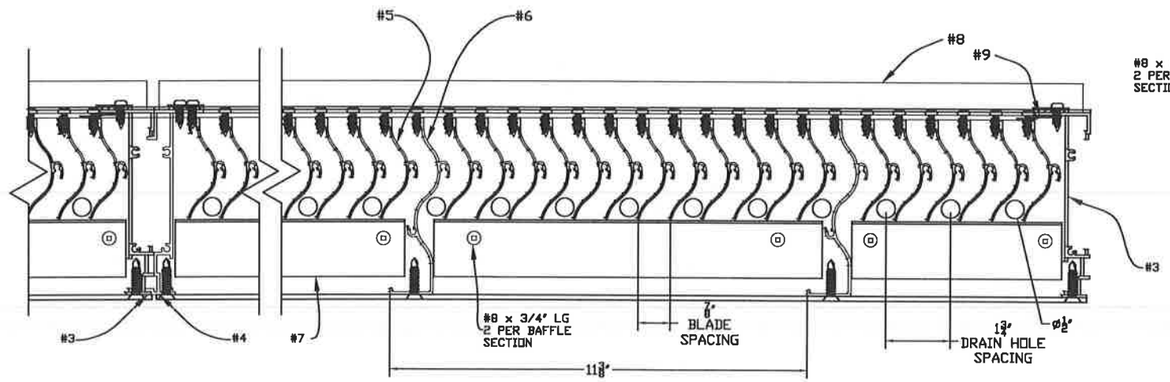
3/8" HOLE PERF
1/4-14x3/4" SS PHILLIPS UNDERCUT HEAD SELF-DRILLING SCREWS 300 SERIES COND. CW STAINLESS STEEL SPACE @ 16" o.c.

1" HOLE PERF
#8-32x 3/4" SS PHILLIPS UNDERCUT HEAD SELF-DRILLING SCREWS 300 SERIES COND. CW STAINLESS STEEL SPACE @ 11.5" O.C.



DETAIL (J/5)

SECTION



PLAN VIEW

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PROJECT: DCPL-3704	REVISION:
TITLE: SUBMITTAL DRAWINGS - ASSEMBLY DETAILS	DATE: 5-1-2024
SCALE: 3" = 1'	SHEET: 5 OF 7
DRW BY: J BLAKE	DRW NO : RD-312-5

Construction Specialties™
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TABLE 1 - PARTS LIST

ITEM #	PART	DESCRIPTION
1	SILL	6063-T6 ALUMINUM 0.080" THK
2	HEAD	6063-T6 ALUMINUM 0.125" THK *
3	JAMB	6063-T6 ALUMINUM 0.080" THK
4	MULLION	6063-T6 ALUMINUM 0.080" THK
5	3 INCH BLADE	6063-T6 ALUMINUM 0.050" THK
6	5 INCH BLADE	6063-T6 ALUMINUM 0.080" THK
7	SILL BAFFLE	3003-H14 ALUMINUM 0.060" THK
8	BLADE SUPPORT	6061-T6 ALUMINUM 2" X 1" CHANNEL
9	JAMB FLASHING	3003-H14 ALUMINUM 0.050" THK
10	3/8" DIA HOLES ON 1/2" CENTERS STAGGERED PERFORATED SHEET	3003-H14 ALUMINUM 0.125" THK
11	1" DIA HOLES ON 1 1/4" CENTERS STAGGERED PERFORATED SHEET	3003-H14 ALUMINUM 0.125" THK
50	HEAD/SILL MOUNTING ANGLE	6061-T6 ALUMINUM 2"X4"X1/4" CONT. ANGLE
71	CONCRETE	4000 PSI CONCRETE, CRACKED, NORMAL WEIGHT
72	CMU	GROUT FILLED MASONRY UNIT (1500 PSI, ASTM C90, TYPE II WITH TYPE N MORTAR)
73	STRUCTURAL STEEL	3/16"THK MIN. ANY SHAPE
74	STEEL STUD	16 GA MIN. COLD FORMED STEEL STUD, Fy=50Ksi
75	ALUMINUM	1/8" THK. MIN. (6063-T5) ANY SHAPE
76	WOOD	SG=0.42 MIN. SPRUCE PINE FIR, 3" MIN. THICKNESS

STEEL ANCHOR PLATES, CLIP ANGLES, REINFORCEMENT CHANNELS AND BARS TO BE MINIMUM ASTM A-36 STEEL, DESIGNED BY OTHERS.
STEEL TUBES TO BE MINIMUM ASTM A-500, GRADE B, FY = 46 KSI., DESIGNED BY OTHERS.

*HEAD EXTRUSION HAS 0.125" THICKNESS ON REAR LEG FOR MOUNTING FASTENERS ALL OTHER THICKNESS IS NOMINAL 0.080" THK

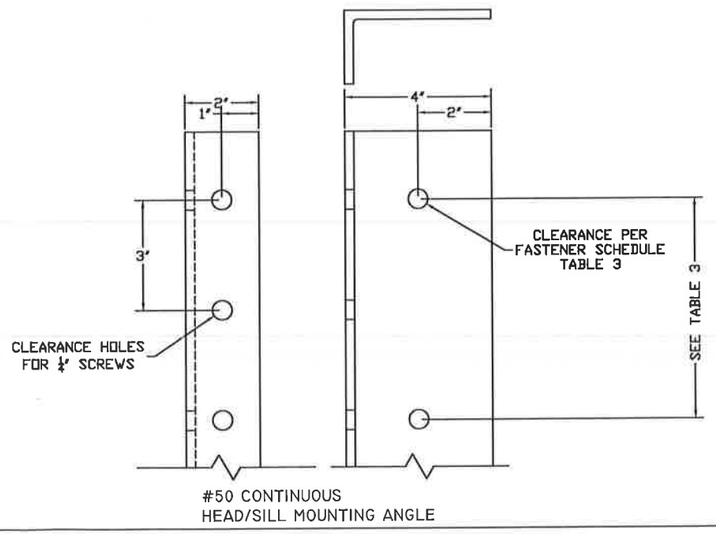

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TABLE 2 - HEIGHT VS WINDLOAD

LOUVER HEIGHT	MAX WIND LOAD
UP TO 5 FEET	140 PSF
OVER 5 FEET TO 8 FEET	100 PSF
OVER 8 FEET TO 10 FEET	60 PSF
OVER 10 FEET TO 12 FEET	40 PSF

PRODUCT APPROVED
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NOA-No. 24-0926.04
Approval Date 12/12/2024
By
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WAYNE K. HELMILA LICENSE No. 59092 STATE OF FLORIDA PROFESSIONAL ENGINEER

NOV 0 4 2024

TABLE 3 - Building Attachment Fastener Schedule

Part #	Fastener Description	Substrate	Max Spacing	Min. Edge Dist.	Min. Embed.	End Dist.
100	1/4"-14 ELCO Dril-Flex or EQ.	Aluminum Head/Sill Frame Members	6"	2"	NA	3/8"
101	1/4"-14 ELCO Dril-Flex or EQ.	16 Ga Cold Formed Steel Stud	9"	2"	NA	3/8"
102	1/4"-20 ELCO Bi-Flex or EQ.	3/16" Structural Steel (Any shape)	9"	2"	NA	3/8"
103	1/2" Dia. Hilti KWIK HUS-EZ S.S. 300 Series Anchor	ASTM C90 type II Grout-filled concrete masonry block f'm = 1,500 psi	12"	1 3/4"	2 1/4"	2"
104	1/4" Dia. Hilti KWIK HUS-EZ S.S. 300 Series Anchor	4000 psi. Cracked Concrete	12"	3"	1 5/8"	2"
105	1/4"-14 ELCO Dril-Flex or EQ.	Aluminum Min ⅛" thick 6063-T5 or better (Any Shape)	6"	2"	NA	NA
106	1/4"-14 Dia. x 3" LG S.S. 300 Series Screws	Wood Spruce Pine-Fir	6"	2"	2 3/4"	2"

REVISION:
DATE: 5-1-2024
SHEET: 6 OF 7
DRW NO.: RD-312-6
PROJECT: DCPL-3704
TITLE: SUBMITTAL DRAWINGS - TABLES
SCALE: 3" = 1'
DRW BY: J BLAKE

Construction Specialties
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PHONE: 1-800-233-8493

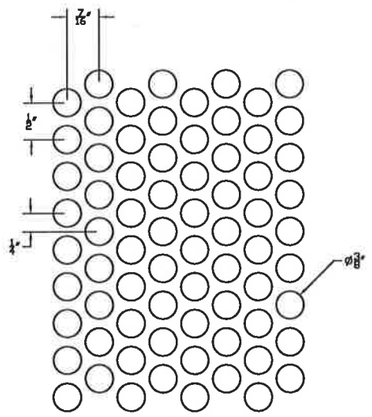
RICE
ENGINEERING
105 School Creek Trail
Luxemburg, WI 54217
Phone: (920) 617-1042
Fax: (920) 617-1100
www.rice-inc.com

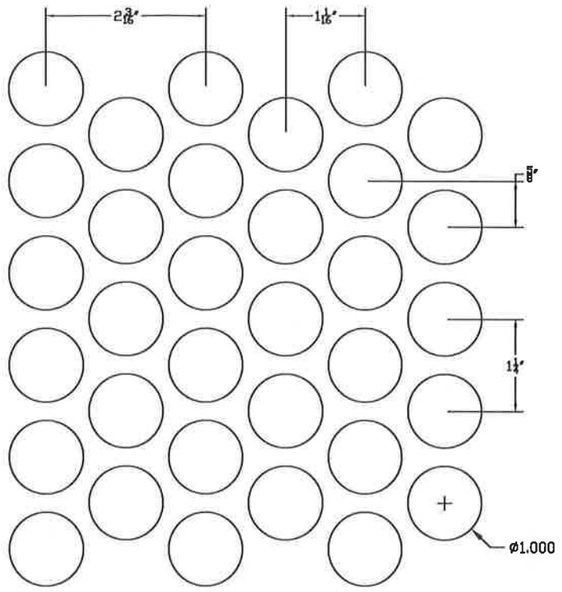
Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092

PRODUCT APPROVED
as complying with the Florida Building Code
NOA-No. 24-0926.04
Approval Date 12/12/2024
By
Miami-Dade Product Control

WAYNE K. HELMILA LICENSE No. 59092 STATE OF FLORIDA PROFESSIONAL ENGINEER

NOV 0 4 2024

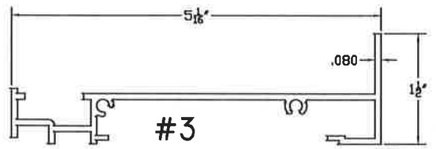




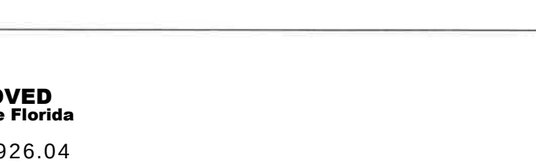
1/8" THK ALUM PERFORATED SHEET

#10
SIZE x CENTERS 0.375" x 0.500"
OPEN AREA 51 %

#11
SIZE x CENTERS 1.000" x 1.250"
OPEN AREA 58 %



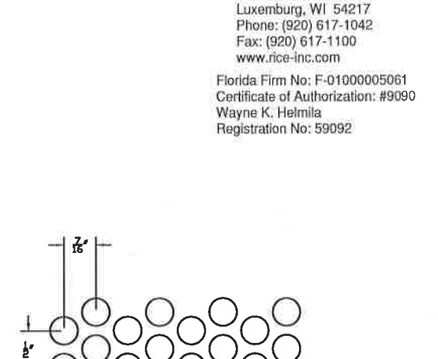
#3
JAMB



#4
MULLION

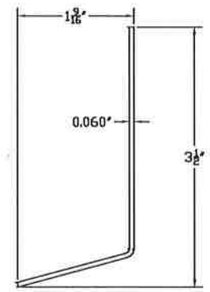
#5
3 INCH BLADE

#6
5 INCH BLADE

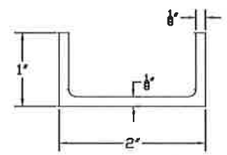


#1 SILL

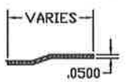
#2 HEAD



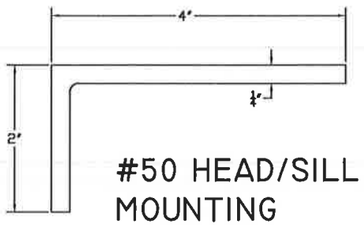
#7 SILL
BAFFLE



#8 BLADE SUPPORT
CHANNEL



#9 JAMB FLASHING



#50 HEAD/SILL
MOUNTING
ANGLE

PROJECT: DCPL-3704	REVISION:
TITLE: SUBMITTAL DRAWINGS - PARTS	DATE: 5-1-2024
SCALE: 3" = 1'	SHEET: 7 OF 7
DRW BY: J BLAKE	DRW NO : RD-312-7

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