



CERTIFICATE OF APPROPRIATENESS PLACARD

for Raleigh Historic Resources

Project Description:

Alter exterior storefront

400 Fayetteville St

Address

Historic District

Sir Walter Hotel

Historic Property

COA-0162-2020

Certificate Number

10/14/2020

Date of Issue

4/14/2021

Expiration Date

This card must be kept posted in a location within public view until all phases of the described project are complete. The work must conform with the code of the City of Raleigh and laws of the state of North Carolina. When your project is complete, you are required to ask for a final zoning inspection in a historic district area. Telephone the RHDC office at 832-7238 and commission staff will coordinate the inspection with the inspections Department. If you do not call for this final inspection, your Certificate of Appropriateness is null and void.

Signature, _____

Raleigh Historic Development Commission

A handwritten signature in dark ink, appearing to read "Erin Morton", is written over a horizontal line.

Pending the resolution of appeals, commencement of work is at your own risk.

Type or print the following:		
Applicant name: Hyatt Field		
Mailing address: 8401 Key Blvd		
City: Greensboro	State: NC	Zip code: 27409
Date: 09/05/2020	Daytime phone #: 919-909-0974	
Email address: hfield@weavercooke.com		
Applicant signature:		
Minor work (staff review) – one copy Major work (COA committee review) – ten copies Additions > 25% of building sq. footage New buildings Demolition of building or structure All other Post approval re-review of conditions of approval	Office Use Only Transaction #: _____ File #: COA-0162-2020 Fee: _____ Amount paid: _____ Received date: _____ Received by: _____ _____	
Property street address: 400-412 Fayetteville St.		
Historic district: Fayetteville Street Historic District		
Historic property/Landmark name (if applicable): Sir Walter Raleigh Hotel		
Owner name: Capital Realty Group		
Owner mailing address: 86 East Route 59, Spring Valley, NY 10977		

For applications that require review by the COA Committee (major work), provide addressed and stamped envelopes for owners for all properties with 100 feet on all sides of the property, as well as the property owner.

Property Owner Name & Address	Property Owner Name & Address
N/A - See attached SHPO Approval and NPS Conditional Approval with Conditions of the NPS Approval as a secondary attachment	

I understand that all major work applications that require review by the Raleigh Historic Development Commission's COA Committee must be submitted by 4 p.m. on the date of the application deadline; otherwise, consideration will be delayed until the following committee meeting. An incomplete application will not be accepted.

Will you be applying for rehabilitation tax credits for this project? ☒ Yes ☐ No Did you consult with staff prior to filing the application? ☒ Yes ☐ No	Office Use Only Type of work: <u>68</u>
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Design Guidelines: please cite the applicable sections of the design guidelines (www.rhdc.org).		
Section/Page	Topic	Brief description of work (attach additional sheets as needed).
4.2 / 82	Demolition	Interior and exterior demolition at retail storefronts at first floor and basement (See attached Amendment/Advisory Determination Form)
2 / 37	Changes to Building Exterior	Replacement of all storefront exterior walls - See attached master plan for replacement of all storefront exterior walls.
2.9 / 56	Storefronts	Retail upfit for two spaces and white-box shell for other retail spaces

Minor Work Approval (office use only)	
Upon being signed and dated below by the Planning Director or designee, this application becomes the Minor Work Certificate of Appropriateness. It is valid until <u>04/14/2020</u> . Please post the enclosed placard form of the certificate as indicated at the bottom of the card. Issuance of a Minor Work Certificate shall not relieve the applicant, contractor, tenant, or property owner from obtaining any other permit required by City Code or any law. Minor Works are subject to an appeals period of 30 days from the date of approval.	
Signature (City of Raleigh) <u>Erin Moeth</u>	Date <u>10/14/2020</u>

October 5, 2020

The proposed scope of work is for the Sir Walter Raleigh Hotel located in the 400-412 blocks of Fayetteville St. Historic District. Please see the documents attached to the email and via dropbox link within the email. Also attached are drawings providing further details as noted in the requests received from SHPO and NPS reviewers.

Scope of Work

1. Interior and exterior demolition at retail storefronts at first floor and basement;
2. Storefront master plan for replacement of all storefront exterior walls; and
3. Retail upfit for two spaces and white-box shell for other retail spaces

These drawings have been commissioned for this construction project and remain the property of Tise-Kiester Architects. No reproduction or use is allowed without first obtaining the Architect's written consent.

Sir Walter Storefront Masterplan

400 Fayetteville Street
Raleigh, NC

Job Number: 1802
Date: 08.21.20
Revisions:



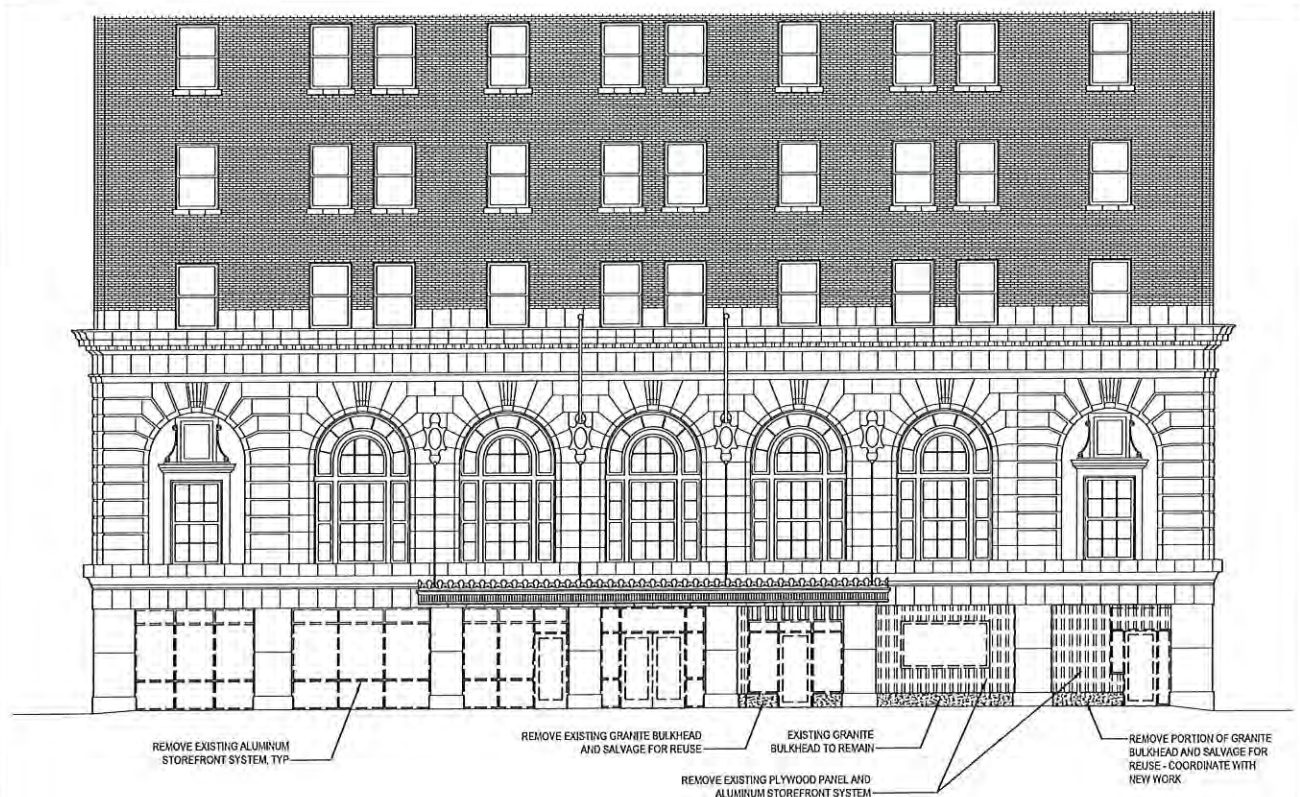
Storefront Elevations
Demolition
Sheet

D1.1



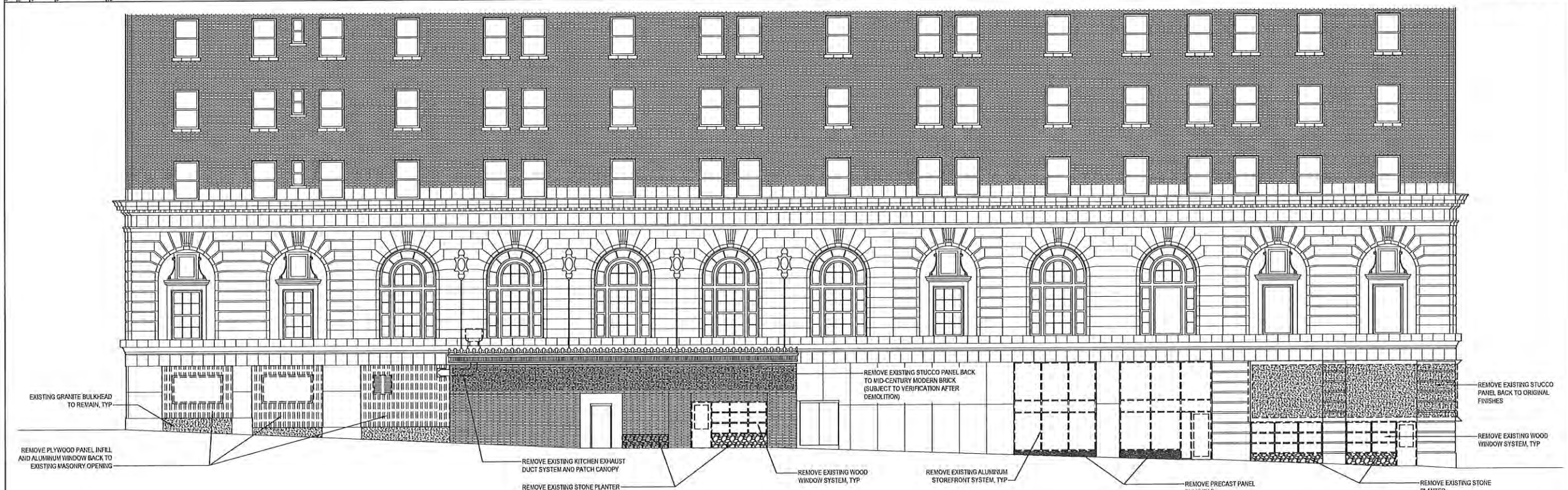
Salisbury Street Elevation - Demolition
SCALE: 1/8"=1'-0"

3



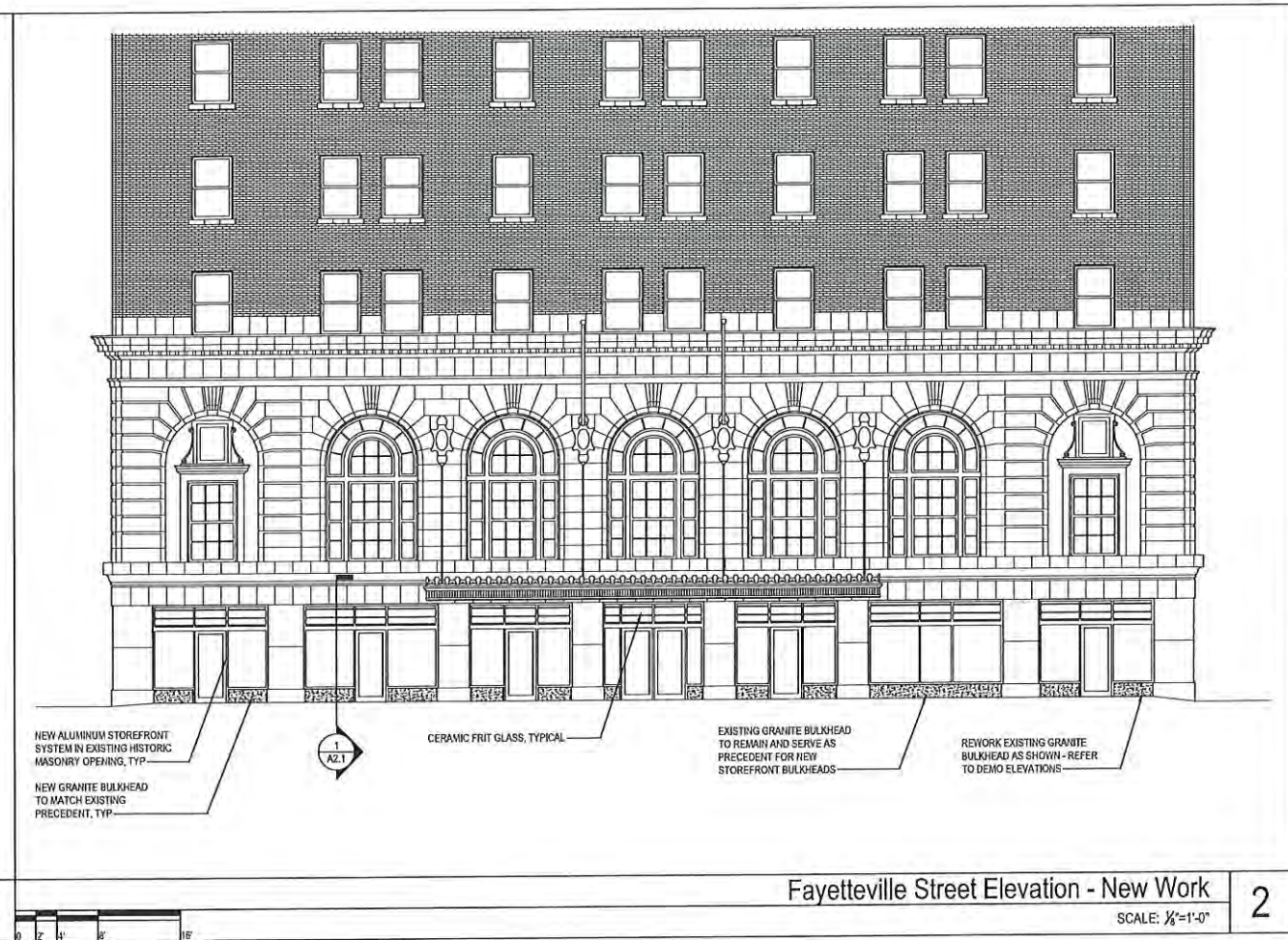
Fayetteville Street Elevation - Demolition
SCALE: 1/8"=1'-0"

2



Davie Street Elevation - Demolition
SCALE: 1/8"=1'-0"

1



TISE-KLESTER ARCHITECTS

TKa

119 E. Franklin St. Suite 300
Chapel Hill, NC 27514
Tel: 919.967.0158
Fax: 919.967.0159
www.tiseklester.com

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Sir Walter Storefront Masterplan

400 Fayetteville Street
Raleigh, NC

Job Number: 1802
Date: 08.21.20
Revisions:



Storefront Elevations
New Work
Sheet
A1.1

These drawings have been commissioned for this construction project and remain the property of Tise-Kiester Architects. No reproduction or use is allowed without first obtaining the Architect's written consent.

Sir Walter Storefront Masterplan

400 Fayetteville Street
Raleigh, NC

Job Number: 1802

Date: 08.21.20

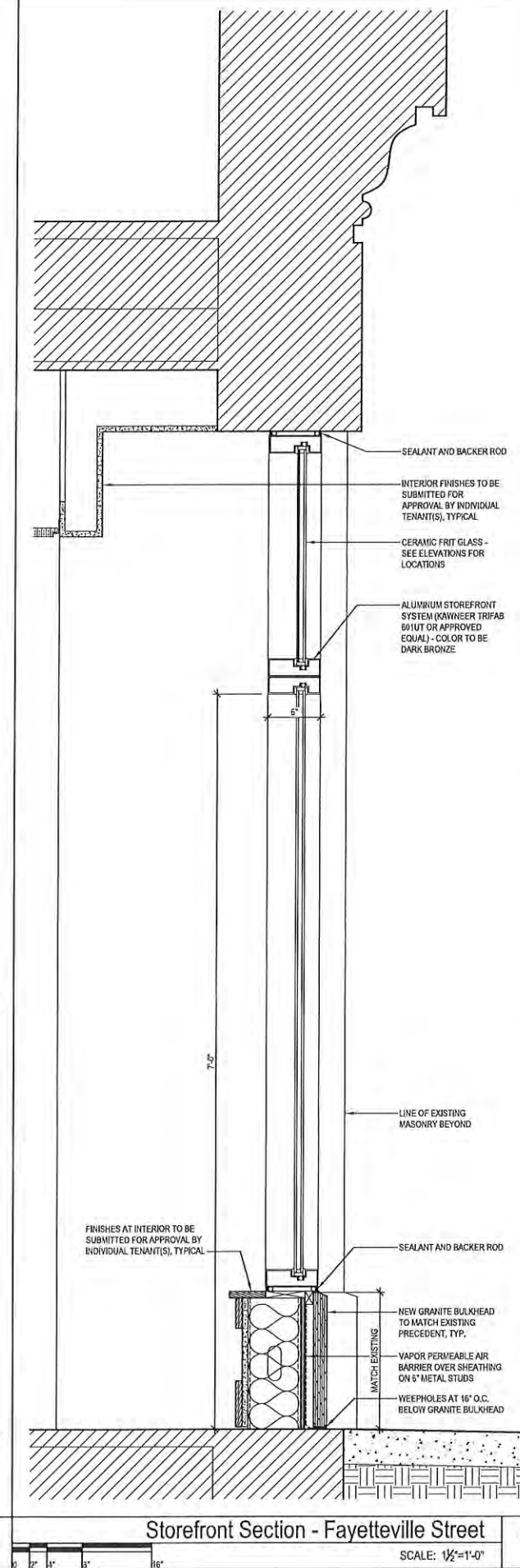
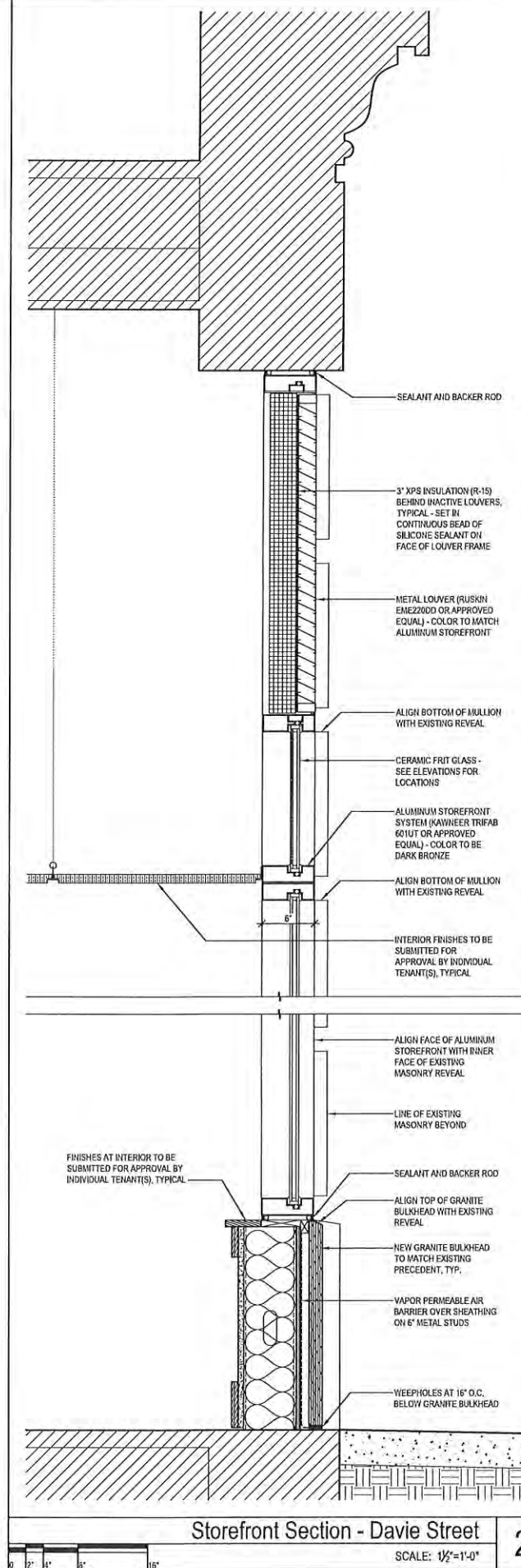
Revisions:



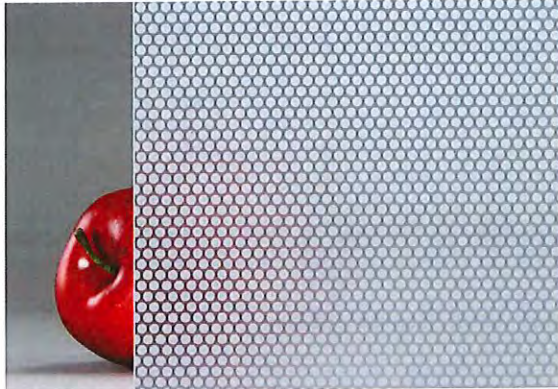
Storefront Sections

Sheet

A2.1



Lumi Frit™ | Surface 1 Frit Rainscreen Glass, Small Dot + Etch



Application:

Interior, Exterior

Composition:

Low-iron glass, surface 1 ceramic frit

Approx Dimensions:

Max. size = Based on design wind load. Please contact us for additional information at rainscreens@bendheim.com; laminated thicknesses range from 1/2" (12 mm) to 1" (24 mm).

Approx Weight:

Varies by thickness; approx. 6 to 12 lb/ft² (30 to 60 kg/m²)

Safety Options:

Tempered_laminated

Maintenance:

Bendheim glass is easy to maintain. We suggest cleaning with warm water or conventional non-abrasive glass cleaners. Installed in the smartly engineered Längle glazing clips, broken or damaged glass panels can be quickly and easily replaced without having to deglaze surrounding panels.

Testing:

Bendheim safety glass meets the requirements for ANSI Z97.1 & the Consumer Product Safety Commission CPSC 16FR, Part 1201 – Safety Standard for Architectural Glazing Materials.

Potential Leed Credit:

- IEQ Credit 8.1: Daylight & Views: Daylight 75% of Spaces
- IEQ Credit 8.2: Daylight & Views: Views for 90% of Spaces

Options & Customizations:

- Virtually unlimited creative design possibilities, including custom patterns, colors, low-iron, and more

Larger, More Versatile Span Delivers More Thermal Options and More Design Choices



Designed to add increased thermal performance and value, Kawneer's new addition to the company's trusted Trifab™ platform gives you more. More flexibility. More thermal options. More design choices. Flexible enough for a wide range of building projects, the Trifab™ 601/601T/601UT Framing System has a 6" depth, which accommodates higher spans than conventional 4-1/2" storefront framing systems. The new 3-in-1 series includes the non-thermal Trifab™ 601, the single thermal break Trifab™ 601T and the dual thermal break Trifab™ 601UT. The greater system depth combined with three thermal performance options make this one of the most versatile framing systems available.

PERFORMANCE

The Trifab™ 601/601T/601UT Framing System leverages Kawneer's exclusive dual IsoLock™ lanced pour-and-debridge technology to provide three levels of thermal performance – non-thermal, single thermal break and dual thermal break. By combining the greater 6" depth with superior thermal performance and versatility, Kawneer is able to bridge the gap between traditional framing systems and low-rise curtain walls.

The Trifab™ 601/601T/601UT Framing System is perfect for projects where an economical alternative to a low-rise curtain wall is desired. These systems meet the same high standards for air and water infiltration and thermal performance that are traditionally found in Kawneer products. The Trifab™ 601/601T/601UT Framing System also has a high-performance sill design. The sill attaches to the sill flashing by way of a raceway and eliminates the troublesome blind seal method used on many flashing systems. The sill also includes a screw-applied end dam, which ensures positive and tight joints between the sill flashing and end dam.



Thermal simulations showing temperature variations from exterior/cold side to interior/warm side.



PERFORMANCE TEST STANDARDS

Air Performance	ASTM E283
Water Performance	ASTM E331
Uniform Static Structural	ASTM E330
Sound Transmission Class (STC)	AAMA 1801 and in accordance with ASTM E1425
Condensation Resistance (CRF)	AAMA 1503 and CAN/CSA-A440
Thermal Transmittance (U-Value)	AAMA 1503.1
U-Value Simulations for Other Glazing Options	AAMA 507, NFRC 100, NFRC 200, NFRC 500 and CAN/CSA-A440.2



FABRICATION AND INSTALLATION

The Trifab™ 601/601T/601UT Framing System employs screw spline joinery construction for efficient fabrication and installation. This construction method provides quality joinery and allows for shop-controlled fabrication and assembly, which results in smaller field crews and less installation time. The framing can be specified for glazing from either the inside or outside. Inside glazing can help reduce field labor costs by eliminating the need for exterior scaffolding or swing stages for installation on floors above the ground level. In addition, the frames have a two-piece receptor option that easily accommodates attachment of air-barrier systems.

AESTHETICS AND VERSATILITY

The Trifab™ 601/601T/601UT Framing System is designed with cost and flexibility in mind. With a 2" x 6" frame profile, the sightline is consistent with current framing systems and the glass pockets are aligned to the 4-1/2"-deep center set Trifab™ framing systems. This allows for a shallow horizontal member that not only lowers overall metal costs, but also provides flexibility to accommodate interior finishes, such as blinds, that can span the full uninterrupted elevation height. The flexibility of the 3-in-1 series provides a pre-designed solution for non-thermal as well as thermal entrances. Framing options include non-thermal and thermally broken door framing members to accommodate 1-3/4"-deep and 2-1/4"-deep entrance doors, an expansion mullion and a two-piece head and jamb receptor. The 6" depth accommodates higher spans than conventional 4-1/2" storefront framing systems, and an optional 2-1/4" wide vertical mullion allows for internal steel reinforcement for projects with greater structural performance requirements.

FOR THE FINISHING TOUCH

Architectural Class I anodized aluminum finishes are available in clear and Permanodic™ color choices.

Painted finishes, including fluoropolymer, that meet AAMA 2605 are offered in many standard choices and an unlimited number of specially designed colors.

Solvent-free powder coatings add the green element with high performance, durability and scratch resistance that meet the standards of AAMA 2604.



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trademarks of Kawneer Company, Inc.

Kawneer Company, Inc.
Technology Park / Atlanta

555 Guthridge Court
Norcross, GA 30092

770.449.5555
kawneer.com



ARCHITECTURAL SYSTEMS | ENTRANCES + FRAMING | CURTAIN WALLS | WINDOWS



3900 Dr. Greaves Rd.

Kansas City, MO 64030

(816) 761-7476

FAX (816) 765-8955

EME220DD WIND-DRIVEN RAIN RESISTANT STATIONARY LOUVER EXTRUDED ALUMINUM

STANDARD CONSTRUCTION

FRAME

2" (51) deep, 6063T6 extruded aluminum with 0.070" (1.8) nominal wall thickness.

BLADES

6063T6 extruded aluminum 0.040" (1.0) nominal wall thickness. Double drainable blades are sightproof.

SCREEN

5/8" x .040" (16 x 1) expanded flattened aluminum bird screen in removable frame. Screen adds approximately 1/2" (13) to louver depth.

FINISH

Mill.

MINIMUM SIZE

6"w x 6"h (152 x 152).

APPROXIMATE SHIPPING WEIGHT

4 lbs. per sq. ft. (19.4 kg/m²)

MAXIMUM FACTORY ASSEMBLY SIZE

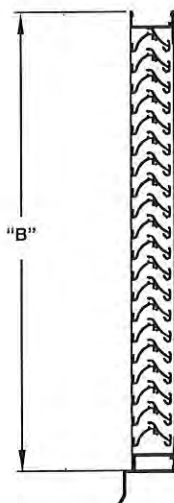
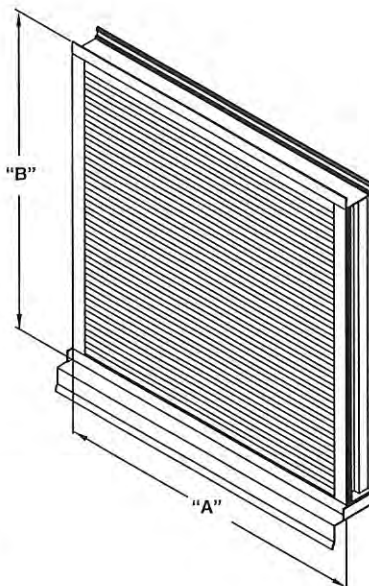
Single sections shall not exceed 60" x 120"h (1524 X 3048) or 120" X 60"h (3048 X 1524).

Louvers larger than the maximum single section size will require field assembly of smaller sections.

SUPPORTS

Louvers may be provided with rear mounted blade supports that increase overall louver depth depending on louver size, assembly configuration or windload.

Consult Ruskin for additional information.



FEATURES

- Closely spaced horizontal blades minimize the penetration of wind-driven rain, reducing damage and additional operating expenses.
- Tested in the AMCA 511 Wind-Driven Rain Penetration Test.
- Published performance ratings based on testing in accordance with AMCA Publication 511.
- 43% Free Area.
- Excellent pressure drop performance.
- Aluminum construction for low maintenance and high resistance to corrosion.

VARIATIONS

- Extended sill.
- Hinged frame.
- Front or rear security bars.
- Filter racks.
- Installation angles.
- A variety of bird and insect screens.

Finishes:

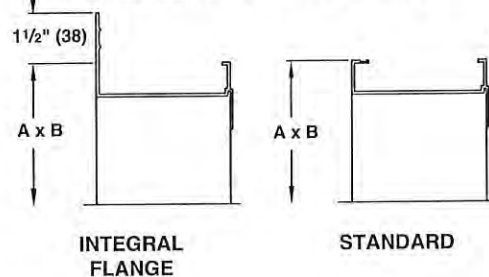
- Selection of finishes: prime coat, pearledize, 50% PVDF (modified fluoropolymer), epoxy, 70% PVDF, clear and color anodize. (Some variation in anodize color consistency is possible.)

Please reference our website
www.ruskin.com for up to date
LEED® information

NOTES:

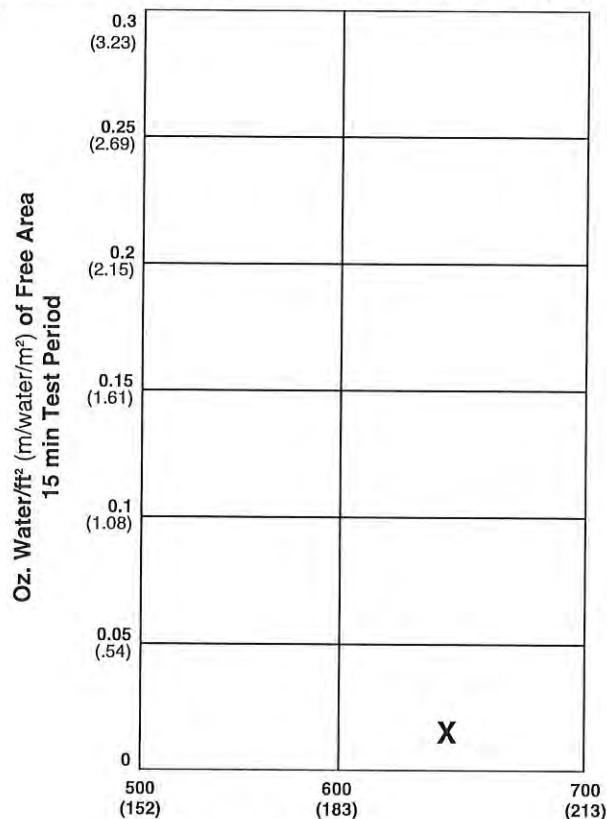
1. Dimensions in inches, parenthesis () indicate millimeters.
2. Units furnished 1/4" (6) smaller than given opening dimensions.

FRAME CONSTRUCTION OPTIONS



WATER PENETRATION GRAPH

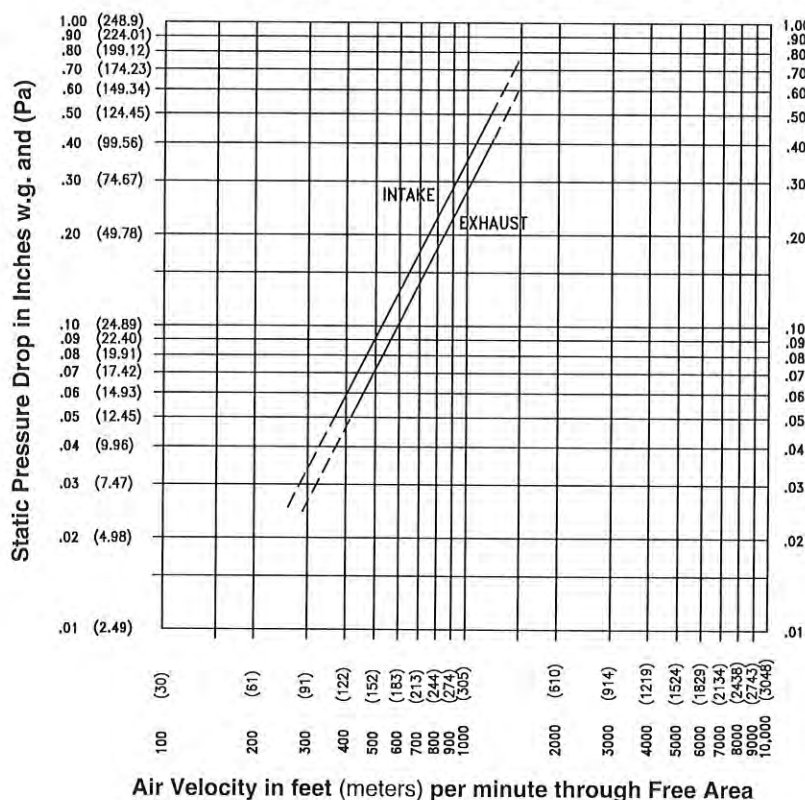
Test size 48" x 48" (1219 x 1219)
Beginning point of water penetration at .01 oz./sq. ft. is 680 fpm (208 m/min.)



Ruskin Company certifies that the louver shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance ratings, water penetration ratings and wind driven rain ratings only.

PRESSURE DROP

Pressure Drop testing performed on 48" x 48" (1219 x 1219) unit.



Ratings do not include the effect of a bird screen.

FREE AREA GUIDE

Free Area Guide shows free area in ft² and m² for various sizes of EME220DD.
Width – Inches and Meters

Height – Inches and Meters

	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	1.50	1.65	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	3.00
12	0.30	0.48	0.66	0.84	1.01	1.19	1.37	1.55	1.73	1.91	2.09	2.27	2.45	2.63	2.80	2.98	3.16	3.34	3.52
18	0.52	0.82	1.13	1.44	1.75	2.06	2.37	2.68	2.99	3.30	3.61	3.92	4.23	4.53	4.84	5.15	5.46	5.77	6.08
24	0.71	1.13	1.55	1.97	2.40	2.82	3.24	3.67	4.09	4.51	4.94	5.36	5.78	6.20	6.63	7.05	7.47	7.90	8.31
30	0.89	1.43	1.97	2.51	3.04	3.58	4.12	4.65	5.19	5.73	6.26	6.80	7.34	7.88	8.41	8.95	9.49	10.02	10.56
36	1.11	1.78	2.45	3.11	3.78	4.45	5.11	5.78	6.45	7.12	7.78	8.45	9.12	9.79	10.45	11.12	11.79	12.45	13.12
42	1.30	2.08	2.86	3.64	4.43	5.21	5.99	6.77	7.55	8.33	9.11	9.89	10.67	11.45	12.24	13.02	13.80	14.58	15.36
48	1.49	2.39	3.28	4.18	5.07	5.97	6.86	7.76	8.65	9.55	10.44	11.34	12.23	13.13	14.02	14.91	15.81	16.70	17.60
54	1.71	2.73	3.76	4.78	5.81	6.83	7.86	8.88	9.91	10.93	11.96	12.98	14.01	15.03	16.06	17.08	18.11	19.13	20.16
60	1.96	3.04	4.18	5.32	6.45	7.59	8.73	9.87	11.01	12.15	13.29	14.43	15.57	16.70	17.84	18.98	20.12	21.26	22.40
66	2.12	3.38	4.65	5.92	7.19	8.46	9.73	11.00	12.27	13.54	14.81	16.08	17.34	18.61	19.88	21.15	22.42	23.69	24.96
72	2.31	3.69	5.07	6.45	7.84	9.22	10.60	11.99	13.37	14.75	16.14	17.52	18.90	20.28	21.67	23.05	24.43	25.82	27.20
78	2.49	3.99	5.49	6.99	8.48	9.98	11.48	12.97	14.47	15.97	17.46	18.96	20.46	21.95	23.45	24.95	26.45	27.94	29.44
84	2.71	4.34	5.97	7.59	9.22	10.85	12.47	14.10	15.73	17.36	18.99	20.61	22.24	23.86	25.49	27.12	28.75	30.37	32.00
90	2.90	4.64	6.38	8.12	9.87	11.61	13.35	15.09	16.83	18.57	20.31	22.05	23.79	25.53	27.28	29.02	30.76	32.50	34.24
96	3.09	4.95	6.80	8.66	10.51	12.37	14.22	16.08	17.93	19.79	21.64	23.50	25.35	27.20	29.06	30.91	32.77	34.62	36.48
102	3.31	5.29	7.28	9.26	11.25	13.23	15.21	17.20	19.19	21.17	23.16	25.14	27.13	29.11	31.10	33.08	35.07	37.05	39.04
108	3.50	5.60	7.70	9.80	11.89	13.99	16.09	18.19	20.29	22.39	24.49	26.59	28.69	30.78	32.88	34.98	37.08	39.18	41.28
114	3.72	5.94	8.17	10.40	12.63	14.86	17.09	19.32	21.55	23.78	26.01	28.24	30.46	32.69	34.92	37.15	39.38	41.61	43.84
120	3.91	6.25	8.59	10.93	13.28	15.62	17.96	20.31	22.65	24.99	27.34	29.68	32.02	34.36	36.71	39.05	41.39	43.74	46.08
126	4.13	6.58	8.98	11.48	13.98	16.48	18.98	21.48	23.98	26.48	28.98	31.48	33.98	36.48	38.98	41.48	43.98	46.48	48.98

WIND-DRIVEN RAIN PERFORMANCE

Test size is 1m x 1m (39" x 39") core area, 1.04m x 1.12m (41" x 44") nominal. Free Area of test louver is 4.20 ft² (.39m²).

29 mph (75 mm/h) wind & 3" (76) per hour rain conditions

50 mph (202 mm/h) wind & 8" (203) per hour rain conditions

Core Velocity, fpm (m/s)	Airflow cfm (m ³ /min)	Free Area Velocity ₂ fpm (m/sec.)	Effectiveness Ratio	Class
0	0	0	99.9	A
132 (.7)	1421	383	99.9	A
197 (1.0)	2120	505	99.9	A
285 (1.4)	3068	730	99.9	A
374 (1.9)	4031	960	99.9	A
472 (2.4)	5077	1209	99.3	A
583 (3.0)	6277	1495	97.1	B
685 (3.5)	7373	1755	96.1	B

Core Velocity, fpm (m/s)	Airflow cfm (m ³ /min)	Free Area Velocity ₂ fpm (m/sec.)	Effectiveness Ratio	Class
0	0	0	99.9	A
114 (.6)	1228	292	99.8	A
186 (.9)	2001	476	99.4	A
294 (1.5)	3181	757	99.3	A
398 (2.0)	4285	1020	97.8	B
494 (2.5)	5315	1265	96.2	B
568 (2.9)	6114	1456	95.4	B
691 (3.5)	7442	1772	90.9	C

NOTES

- Core area is the open area of the louver face (face area less louver frames). Core Velocity is the airflow velocity through the Core Area of the louver (1m x 1m).
- Free Area of test size is calculated per AMCA standard 500-L.
- Wind Driven Rain Penetration Classes:

Class	Effectiveness
A	1 to .99
B	0.989 to 0.95
C	0.949 to 0.80
D	Below 0.8

- Intake Discharge Loss Class 2

Discharge Loss Coefficient is calculated by dividing a louver's actual airflow rate vs. a theoretical airflow for the opening. It provides an indication of the louvers' airflow characteristics.

Discharge Loss Classes:

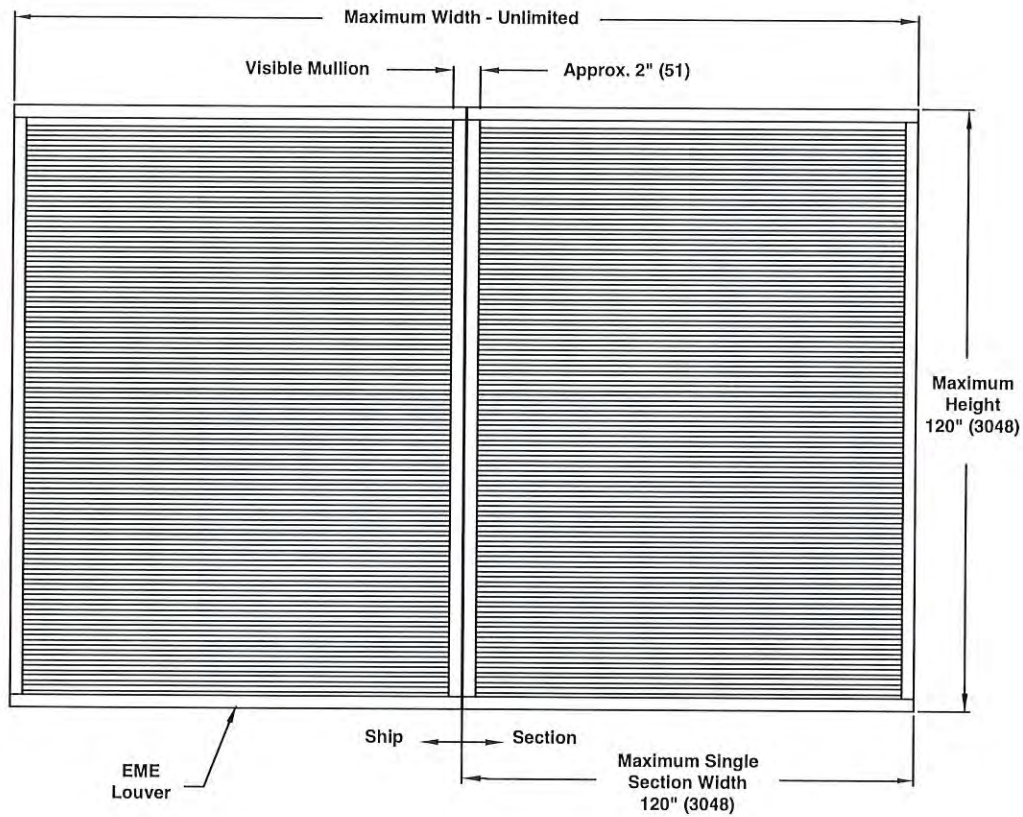
Class Discharge Loss Coefficient

- 0.4 and above
- 0.3 to 0.399
- 0.2 to 0.299
- 0.199 and below

(The higher the coefficient, the less resistance to airflow.)

5. The AMCA Wind Driven Rain Test is performed in a laboratory environment and incorporates controlled wind, water and system airflow effects. In actual field installations, storms may create conditions not considered by the AMCA test. Penthouse and similar applications where wind can pass through multiple louvers in an enclosure is another condition that is not simulated by AMCA tests. These applications can create elevated water penetration rates through any louver. Because of these uncontrolled situations, it is recommended that provisions to manage water penetration through louvers be included in the building design.

EME220DD CONSTRUCTION INFORMATION



1. Reference separate Installation Instruction sheets for installation details. It is the responsibility of the installing contractor to properly install the louvers per the appropriate detail.
2. Louvers wider than the maximum single section width will be shipped in multiple sections and will require field assembly. Field assembly is not by Ruskin.



3900 Dr. Greaves Rd.
Kansas City, MO 64030
(816) 761-7476
FAX (816) 765-8955
www.ruskin.com



SIR WALTER APARTMENTS



#12

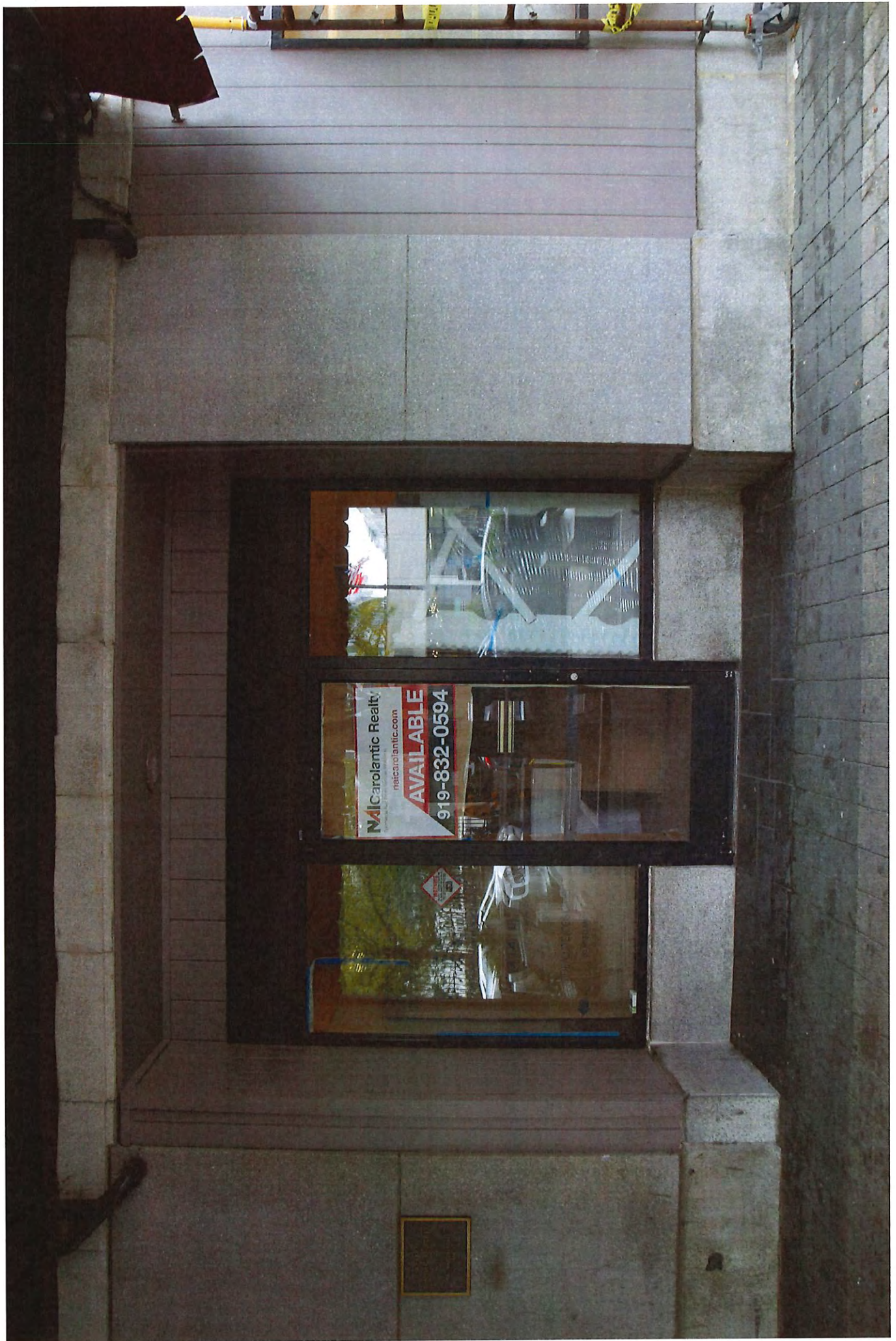
Sir Walter
Apartments
Office

The
Sir Walter
Home of the
Virginia Dare
Ballroom

Sir Walter
Apartments
An Elderly
Community
Professionally
Managed by
HEN, Inc.
NO TRESPASSING
NO FEELING

400

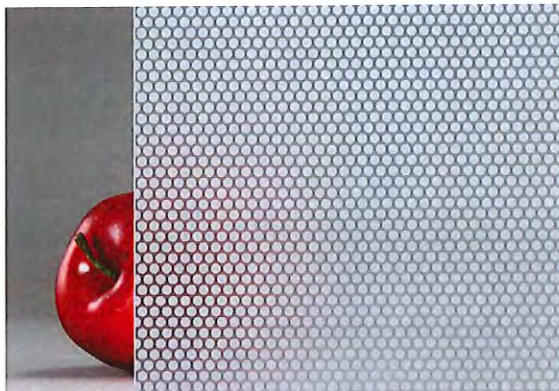
AVAILABLE
919-832-0594
NAC and Eric Realty







Lumi Frit™ | Surface 1 Frit Rainscreen Glass, Small Dot + Etch



Application:

Interior, Exterior

Composition:

Low-iron glass, surface 1 ceramic frit

Approx Dimensions:

Max. size = Based on design wind load. Please contact us for additional information at rainscreens@bendheim.com; laminated thicknesses range from 1/2" (12 mm) to 1" (24 mm).

Approx Weight:

Varies by thickness; approx. 6 to 12 lb/ft² (30 to 60 kg/m²)

Safety Options:

Tempered_laminated

Maintenance:

Bendheim glass is easy to maintain. We suggest cleaning with warm water or conventional non-abrasive glass cleaners. Installed in the smartly engineered Langle glazing clips, broken or damaged glass panels can be quickly and easily replaced without having to deglaze surrounding panels.

Testing:

Bendheim safety glass meets the requirements for ANSI Z97.1 & the Consumer Product Safety Commission CPSC 16FR, Part 1201 – Safety Standard for Architectural Glazing Materials.

Potential Leed Credit:

- IEQ Credit 8.1: Daylight & Views: Daylight 75% of Spaces
- IEQ Credit 8.2: Daylight & Views: Views for 90% of Spaces

Options & Customizations:

- Virtually unlimited creative design possibilities, including custom patterns, colors, low-iron, and more

Larger, More Versatile Span Delivers More Thermal Options and More Design Choices



Designed to add increased thermal performance and value, Kawneer's new addition to the company's trusted Trifab™ platform gives you more. More flexibility. More thermal options. More design choices. Flexible enough for a wide range of building projects, the Trifab™ 601/601T/601UT Framing System has a 6" depth, which accommodates higher spans than conventional 4-1/2" storefront framing systems. The new 3-in-1 series includes the non-thermal Trifab™ 601, the single thermal break Trifab™ 601T and the dual thermal break Trifab™ 601UT. The greater system depth combined with three thermal performance options make this one of the most versatile framing systems available.

PERFORMANCE

The Trifab™ 601/601T/601UT Framing System leverages Kawneer's exclusive dual IsoLock™ lanced pour-and-debridge technology to provide three levels of thermal performance – non-thermal, single thermal break and dual thermal break. By combining the greater 6" depth with superior thermal performance and versatility, Kawneer is able to bridge the gap between traditional framing systems and low-rise curtain walls.

The Trifab™ 601/601T/601UT Framing System is perfect for projects where an economical alternative to a low-rise curtain wall is desired. These systems meet the same high standards for air and water infiltration and thermal performance that are traditionally found in Kawneer products. The Trifab™ 601/601T/601UT Framing System also has a high-performance sill design. The sill attaches to the sill flashing by way of a raceway and eliminates the troublesome blind seal method used on many flashing systems. The sill also includes a screw-applied end dam, which ensures positive and tight joints between the sill flashing and end dam.



Thermal simulations showing temperature variations from exterior/cold side to interior/warm side.



PERFORMANCE TEST STANDARDS

Air Performance	ASTM E283
Water Performance	ASTM E331
Uniform Static Structural	ASTM E330
Sound Transmission Class (STC)	AAMA 1801 and in accordance with ASTM E1425
Condensation Resistance (CRF)	AAMA 1503 and CAN/CSA-A440
Thermal Transmittance (U-Value)	AAMA 1503.1
U-Value Simulations for Other Glazing Options	AAMA 507, NFRC 100, NFRC 200, NFRC 500 and CAN/CSA-A440.2



FABRICATION AND INSTALLATION

The Trifab™ 601/601T/601UT Framing System employs screw spline joinery construction for efficient fabrication and installation. This construction method provides quality joinery and allows for shop-controlled fabrication and assembly, which results in smaller field crews and less installation time. The framing can be specified for glazing from either the inside or outside. Inside glazing can help reduce field labor costs by eliminating the need for exterior scaffolding or swing stages for installation on floors above the ground level. In addition, the frames have a two-piece receptor option that easily accommodates attachment of air-barrier systems.

AESTHETICS AND VERSATILITY

The Trifab™ 601/601T/601UT Framing System is designed with cost and flexibility in mind. With a 2" x 6" frame profile, the sightline is consistent with current framing systems and the glass pockets are aligned to the 4-1/2"-deep center set Trifab™ framing systems. This allows for a shallow horizontal member that not only lowers overall metal costs, but also provides flexibility to accommodate interior finishes, such as blinds, that can span the full uninterrupted elevation height. The flexibility of the 3-in-1 series provides a pre-designed solution for non-thermal as well as thermal entrances. Framing options include non-thermal and thermally broken door framing members to accommodate 1-3/4"-deep and 2-1/4"-deep entrance doors, an expansion mullion and a two-piece head and jamb receptor. The 6" depth accommodates higher spans than conventional 4-1/2" storefront framing systems, and an optional 2-1/4" wide vertical mullion allows for internal steel reinforcement for projects with greater structural performance requirements.

FOR THE FINISHING TOUCH

Architectural Class I anodized aluminum finishes are available in clear and Permanodic™ color choices.

Painted finishes, including fluoropolymer, that meet AAMA 2605 are offered in many standard choices and an unlimited number of specially designed colors.

Solvent-free powder coatings add the green element with high performance, durability and scratch resistance that meet the standards of AAMA 2604.



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Kawneer Company, Inc.
Technology Park / Atlanta

555 Guthridge Court
Norcross, GA 30092

770.449.5555
kawneer.com



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Kansas City, MO 64030

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FAX (816) 765-8955

EME220DD WIND-DRIVEN RAIN RESISTANT STATIONARY LOUVER EXTRUDED ALUMINUM

STANDARD CONSTRUCTION

FRAME

2" (51) deep, 6063T6 extruded aluminum with 0.070" (1.8) nominal wall thickness.

BLADES

6063T6 extruded aluminum 0.040" (1.0) nominal wall thickness. Double drainable blades are sightproof.

SCREEN

5/8" x .040" (16 x 1) expanded flattened aluminum bird screen in removable frame. Screen adds approximately 1/2" (13) to louver depth.

FINISH

Mill.

MINIMUM SIZE

6"w x 6"h (152 x 152).

APPROXIMATE SHIPPING WEIGHT

4 lbs. per sq. ft. (19.4 kg/m²)

MAXIMUM FACTORY ASSEMBLY SIZE

Single sections shall not exceed 60" x 120"h (1524 X 3048) or 120" X 60"h (3048 X 1524).

Louvers larger than the maximum single section size will require field assembly of smaller sections.

SUPPORTS

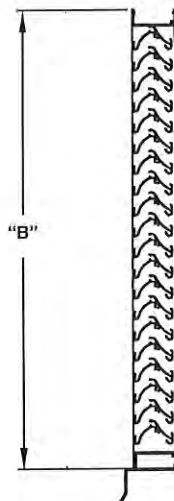
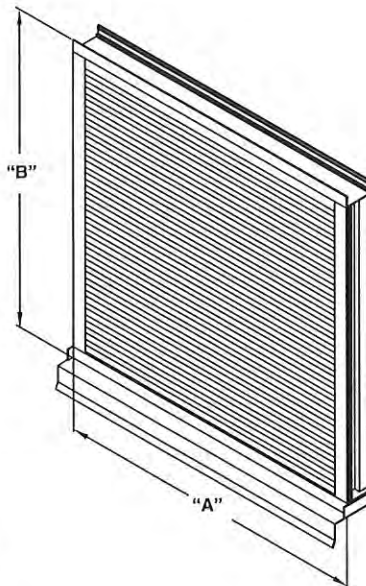
Louvers may be provided with rear mounted blade supports that increase overall louver depth depending on louver size, assembly configuration or windload.

Consult Ruskin for additional information.

Please reference our website
www.ruskin.com for up to date
LEED® information

NOTES:

1. Dimensions in inches, parenthesis () indicate millimeters.
2. Units furnished 1/4" (6) smaller than given opening dimensions.



FEATURES

- Closely spaced horizontal blades minimize the penetration of wind-driven rain, reducing damage and additional operating expenses.
- Tested in the AMCA 511 Wind-Driven Rain Penetration Test.
- Published performance ratings based on testing in accordance with AMCA Publication 511.
- 43% Free Area.
- Excellent pressure drop performance.
- Aluminum construction for low maintenance and high resistance to corrosion.

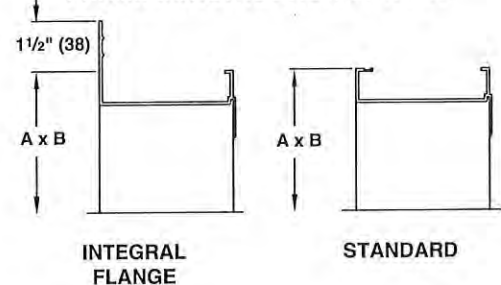
VARIATIONS

- Extended sill.
- Hinged frame.
- Front or rear security bars.
- Filter racks.
- Installation angles.
- A variety of bird and insect screens.

Finishes:

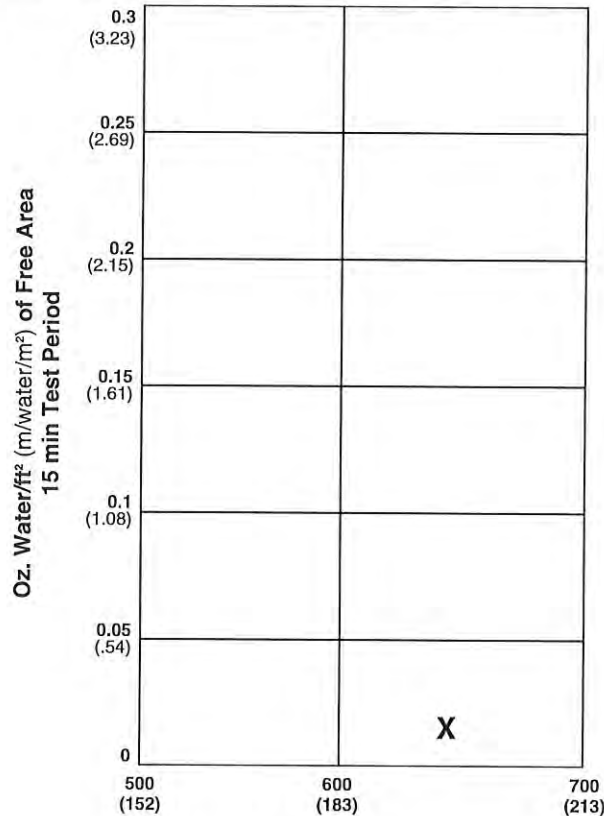
- Selection of finishes: prime coat, pearledize, 50% PVDF (modified fluoropolymer), epoxy, 70% PVDF, clear and color anodize. (Some variation in anodize color consistency is possible.)

FRAME CONSTRUCTION OPTIONS



WATER PENETRATION GRAPH

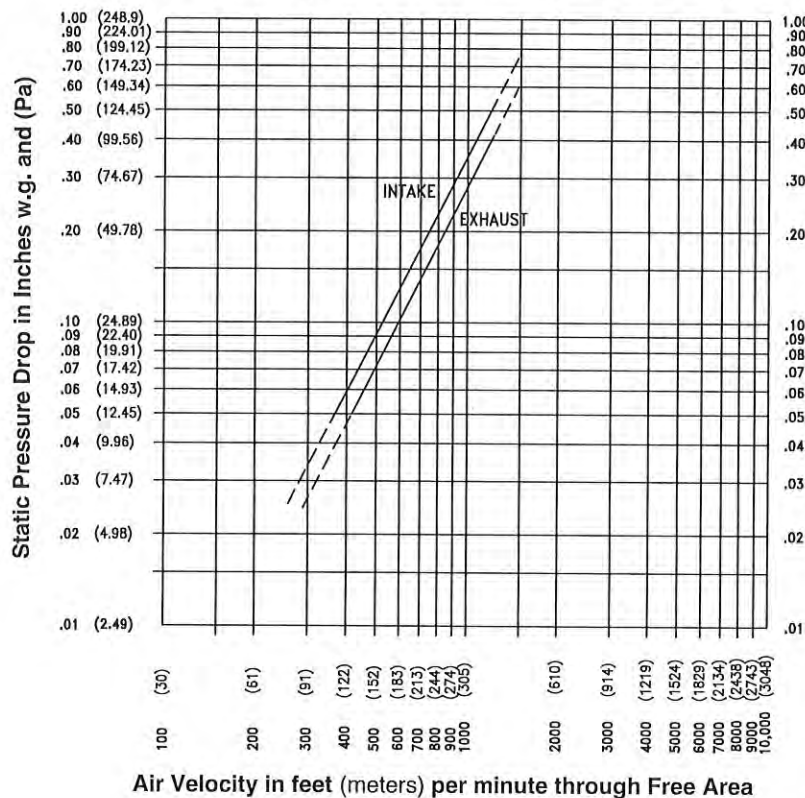
Test size 48" x 48" (1219 x 1219)
Beginning point of water penetration at .01 oz./sq. ft. is 680 fpm (208 m/min.)



Ruskin Company certifies that the louver shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance ratings, water penetration ratings and wind driven rain ratings only.

PRESSURE DROP

Pressure Drop testing performed on 48" x 48" (1219 x 1219) unit.



Ratings do not include the effect of a bird screen.

FREE AREA GUIDE

Free Area Guide shows free area in ft² and m² for various sizes of EME220DD.
Width – Inches and Meters

Height – Inches and Meters

	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	1.50	1.65	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	3.00
12	0.30	0.48	0.66	0.84	1.01	1.19	1.37	1.55	1.73	1.91	2.09	2.27	2.45	2.63	2.80	2.98	3.16	3.34	3.52
18	0.30	0.03	0.04	0.06	0.08	0.09	0.11	0.13	0.14	0.16	0.18	0.19	0.21	0.23	0.24	0.26	0.28	0.29	0.31
24	0.52	0.82	1.13	1.44	1.75	2.06	2.37	2.68	2.99	3.30	3.61	3.92	4.22	4.53	4.84	5.15	5.46	5.77	6.08
30	0.45	0.05	0.08	0.11	0.13	0.16	0.19	0.22	0.25	0.28	0.31	0.34	0.36	0.39	0.42	0.45	0.48	0.51	0.54
36	0.71	1.13	1.55	1.97	2.40	2.82	3.24	3.67	4.09	4.51	4.94	5.36	5.78	6.20	6.63	7.05	7.47	7.90	8.32
42	0.69	0.07	0.10	0.14	0.18	0.22	0.26	0.30	0.34	0.38	0.42	0.46	0.50	0.54	0.58	0.62	0.66	0.70	0.73
48	0.89	1.49	1.97	2.51	3.04	3.58	4.12	4.65	5.19	5.73	6.26	6.80	7.34	7.88	8.41	8.95	9.49	10.02	10.56
54	0.75	1.11	1.81	2.50	3.20	3.89	4.58	5.28	5.97	6.67	7.36	8.05	8.75	9.44	10.14	10.83	11.52	12.22	12.91
60	1.11	1.78	2.45	3.11	3.78	4.45	5.11	5.78	6.45	7.12	7.78	8.45	9.12	9.78	10.45	11.12	11.79	12.45	13.12
66	0.90	0.10	0.17	0.23	0.29	0.35	0.41	0.48	0.54	0.60	0.66	0.72	0.79	0.85	0.91	0.97	1.03	1.10	1.16
72	1.30	2.08	2.86	3.64	4.43	5.21	5.99	6.77	7.55	8.33	9.11	9.89	10.67	11.45	12.24	13.02	13.80	14.58	15.36
78	1.05	0.12	0.19	0.27	0.34	0.41	0.48	0.56	0.63	0.70	0.77	0.85	0.92	0.99	1.07	1.14	1.21	1.28	1.36
84	1.49	2.39	3.28	4.18	5.07	5.97	6.86	7.76	8.65	9.55	10.44	11.34	12.23	13.13	14.02	14.91	15.81	16.70	17.60
90	1.20	0.14	0.22	0.31	0.39	0.47	0.55	0.64	0.72	0.80	0.89	0.97	1.05	1.14	1.22	1.30	1.39	1.47	1.55
96	1.71	2.73	3.76	4.78	5.81	6.83	7.86	8.88	9.91	10.93	11.96	12.98	14.01	15.03	16.06	17.08	18.11	19.13	20.16
102	1.35	0.16	0.25	0.35	0.44	0.54	0.64	0.73	0.83	0.92	1.02	1.11	1.21	1.30	1.40	1.49	1.59	1.68	1.78
108	1.90	3.04	4.18	5.32	6.45	7.59	8.73	9.87	11.01	12.15	13.29	14.43	15.57	16.70	17.84	18.98	20.12	21.26	22.40
114	1.50	0.18	0.28	0.39	0.49	0.60	0.71	0.81	0.92	1.02	1.13	1.24	1.34	1.45	1.55	1.66	1.77	1.87	1.98
120	2.12	3.58	4.65	5.92	7.19	8.46	9.73	11.00	12.27	13.54	14.81	16.08	17.34	18.61	19.88	21.15	22.42	23.69	24.96
126	1.65	0.20	0.31	0.43	0.55	0.67	0.79	0.90	1.02	1.14	1.26	1.38	1.50	1.61	1.73	1.85	1.97	2.09	2.20
132	2.31	3.69	5.07	6.45	7.84	9.22	10.60	11.99	13.37	14.75	16.14	17.52	18.90	20.28	21.67	23.05	24.43	25.82	27.20
138	1.80	0.21	0.34	0.47	0.60	0.73	0.86	0.99	1.11	1.24	1.37	1.50	1.63	1.76	1.89	2.02	2.14	2.27	2.40
144	2.49	3.99	5.49	6.99	8.48	9.98	11.48	12.97	14.47	15.97	17.46	18.96	20.46	21.95	23.45	24.95	26.45	27.94	29.44
150	1.95	0.23	0.37	0.51	0.65	0.79	0.93	1.07	1.21	1.35	1.48	1.62	1.76	1.90	2.04	2.18	2.32	2.46	2.60
156	2.71	4.34	5.97	7.59	9.22	10.85	12.47	14.10	15.73	17.36	18.98	20.61	22.24	23.86	25.49	27.12	28.75	30.37	32.00
162	2.10	0.25	0.40	0.55	0.71	0.86	1.01	1.16	1.31	1.46	1.61	1.77	1.92	2.07	2.22	2.37	2.52	2.67	2.82
168	2.90	4.64	6.38	8.12	9.87	11.61	13.35	15.09	16.83	18.57	20.31	22.05	23.79	25.53	27.28	29.02	30.76	32.50	34.24
174	2.25	0.27	0.43	0.59	0.76	0.92	1.08	1.24	1.40	1.57	1.73	1.89	2.05	2.21	2.37	2.54	2.70	2.86	3.02
180	3.09	4.95	6.80	8.66	10.51	12.37	14.22	16.08	17.93	19.79	21.64	23.50	25.35	27.20	29.06	30.91	32.77	34.62	36.48
186	2.40	0.29	0.46	0.63	0.81	0.98	1.15	1.32	1.50	1.67	1.84	2.01	2.19	2.36	2.53	2.70	2.88	3.05	3.22
192	3.31	5.29	7.28	9.26	11.25	13.23	15.22	17.20	19.19	21.17	23.16	25.14	27.13	29.11	31.10	33.08	35.07	37.05	39.04
198	2.55	0.31	0.49	0.68	0.86	1.05	1.23	1.42	1.60	1.78	1.97	2.15	2.34	2.52	2.71	2.89	3.08	3.26	3.45
204	3.50	5.60	7.70	9.80	11.89	13.99	16.09	18.19	20.29	22.39	24.49	26.59	28.69	30.78	32.88	34.98	37.08	39.18	41.28
210	2.70	0.33	0.52	0.72	0.91	1.11	1.30	1.50	1.69	1.89	2.08	2.28	2.47	2.67	2.86	3.06	3.25	3.45	3.64
216	3.72	5.94	8.17	10.40	12.63	14.86	17.09	19.32	21.55	23.78	26.01	28.24	30.46	32.69	34.92	37.15	39.38	41.61	43.84
222	2.85	0.35	0.55	0.76	0.97	1.17	1.38	1.59	1.80	2.00	2.21	2.42	2.63	2.83	3.04	3.25	3.46	3.66	3.87
228	3.91	6.25	8.59	10.93	13.28	15.63	17.98	20.33	22.68	24.99	27.34	29.68	32.02	34.36	36.71	39.05	41.39	43.74	46.08
234	3.00	0.36	0.58	0.80	1.02	1.23	1.45	1.67	1.89	2.11	2.32	2.54	2.76	2.98	3.20	3.41	3.63	3.85	4.07

WIND-DRIVEN RAIN PERFORMANCE

Test size is 1m x 1m (39" x 39") core area, 1.04m x 1.12m (41" x 44") nominal. Free Area of test louver is 4.20 ft² (.39m²).

29 mph (75 mm/h) wind & 3" (76) per hour rain conditions

Core Velocity ₁ fpm (m/s)	Airflow cfm (m ³ /min)	Free Area Velocity ₂ fpm (m/sec.)	Effectiveness Ratio	Class
0	0	0	99.9	A
132 (.7)	1421	383	99.9	A
197 (1.0)	2120	505	99.9	A
285 (1.4)	3068	730	99.9	A
374 (1.9)	4031	960	99.9	A
472 (2.4)	5077	1209	99.3	A
583 (3.0)	6277	1495	97.1	B
685 (3.5)	7373	1755	96.1	B

50 mph (202 mm/h) wind & 8" (203) per hour rain conditions

Core Velocity ₁ fpm (m/s)	Airflow cfm (m ³ /min)	Free Area Velocity ₂ fpm (m/sec.)	Effectiveness Ratio	Class
0	0	0	99.9	A
114 (.6)	1228	292	99.8	A
186 (.9)	2001	476	99.4	A
294 (1.5)	3181	757	99.3	A
398 (2.0)	4285	1020	97.8	B
494 (2.5)	5315	1265	96.2	B
568 (2.9)	6114	1456	95.4	B
691 (3.5)	7442	1772	90.9	C

NOTES

- Core area is the open area of the louver face (face area less louver frames). Core Velocity is the airflow velocity through the Core Area of the louver (1m x 1m).
- Free Area of test size is calculated per AMCA standard 500-L.
- Wind Driven Rain Penetration Classes:

Class	Effectiveness
A	1 to .99
B	0.989 to 0.95
C	0.949 to 0.80
D	Below 0.8

- Intake Discharge Loss Class 2

Discharge Loss Coefficient is calculated by dividing a louvers' actual airflow rate vs. a theoretical airflow for the opening. It provides an indication of the louvers' airflow characteristics.

Discharge Loss Classes:

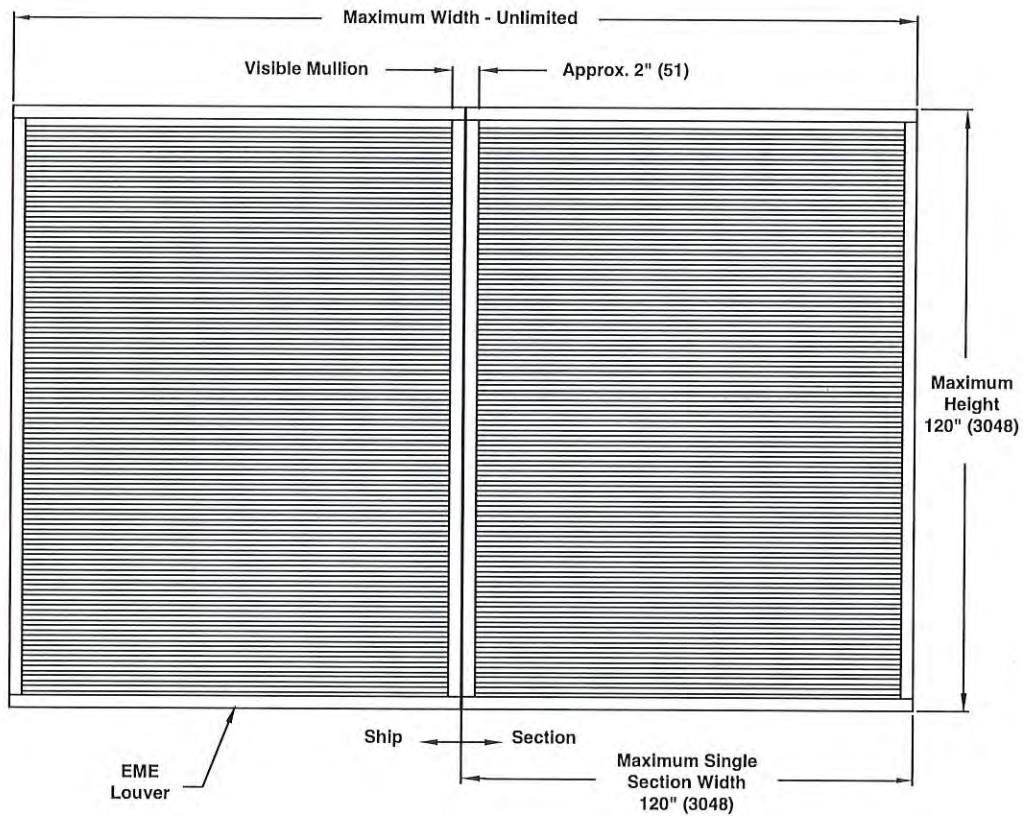
Class Discharge Loss Coefficient

- 0.4 and above
- 0.3 to 0.399
- 0.2 to 0.299
- 0.199 and below

(The higher the coefficient, the less resistance to airflow.)

5. The AMCA Wind Driven Rain Test is performed in a laboratory environment and incorporates controlled wind, water and system airflow effects. In actual field installations, storms may create conditions not considered by the AMCA test. Penthouse and similar applications where wind can pass through multiple louvers in an enclosure is another condition that is not simulated by AMCA tests. These applications can create elevated water penetration rates through any louver. Because of these uncontrolled situations, it is recommended that provisions to manage water penetration through louvers be included in the building design.

EME220DD CONSTRUCTION INFORMATION



1. Reference separate Installation Instruction sheets for installation details. It is the responsibility of the installing contractor to properly install the louvers per the appropriate detail.
2. Louvers wider than the maximum single section width will be shipped in multiple sections and will require field assembly. Field assembly is not by Ruskin.



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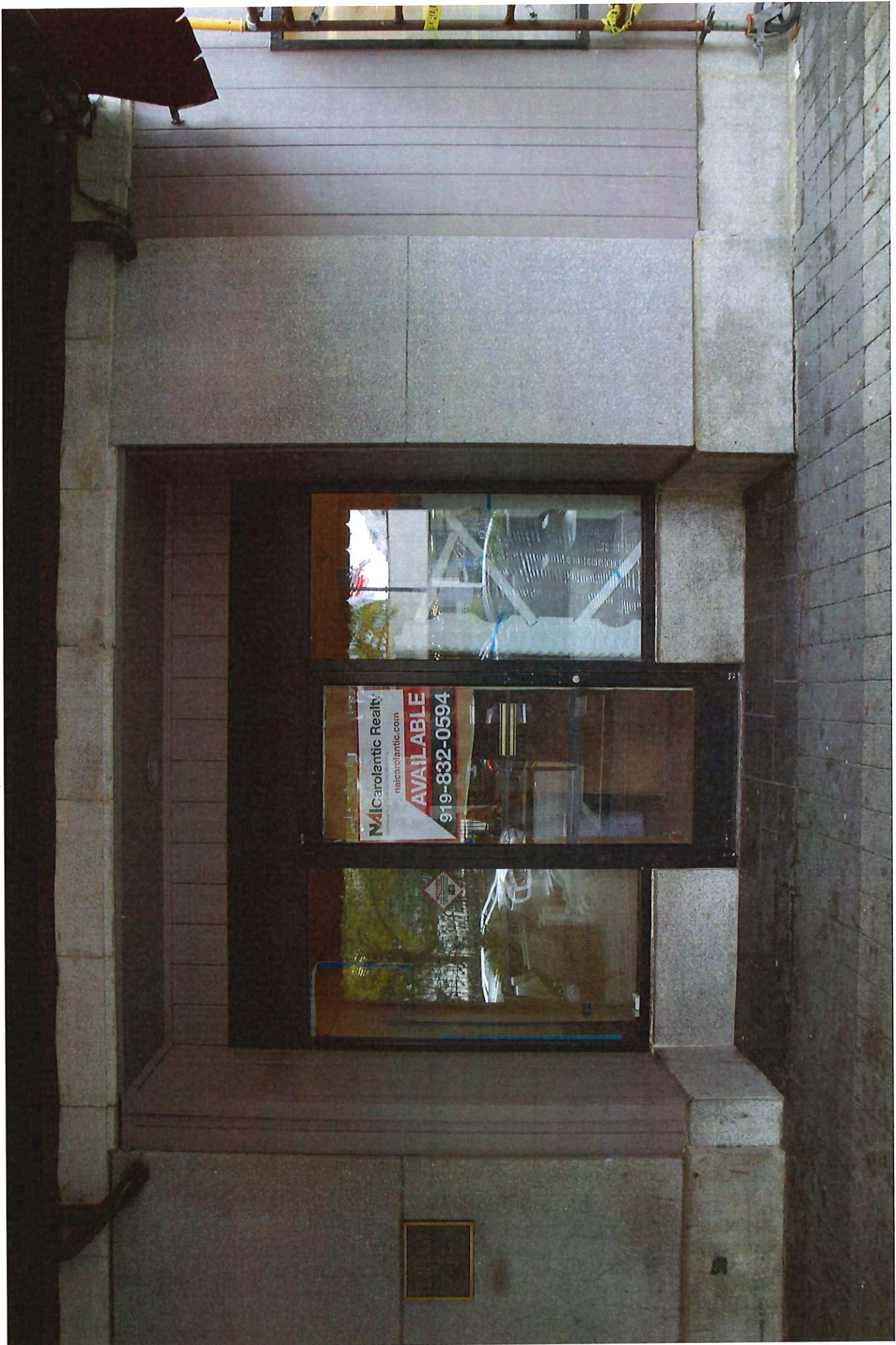
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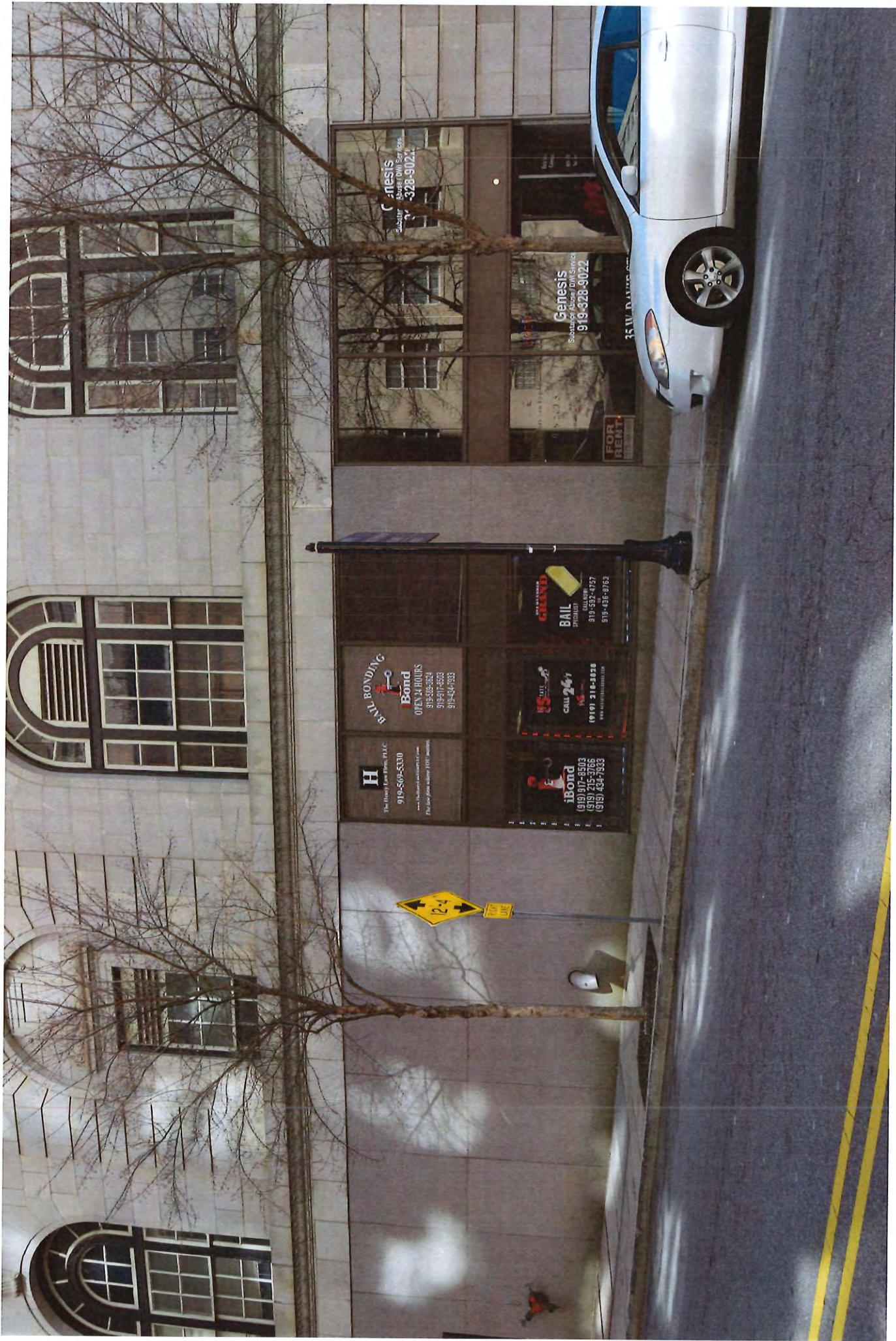












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