

City of Boston Historical Landmarks Commission APPLICATION FOR CERTIFICATE OF DESIGN APPROVAL

BUILDING ENVELOPE RESTORATION 1597 WASHINGTON STREET, BOSTON, MA 02118

Prepared on Behalf of:

Mr. Kevin Rich, Trustee
1597 Washington Street Condominium Trust
1597 Washington Street
Boston, MA 02118



Prepared By:

Building Enclosure Science, LLC 859 North Main Street, Providence, RI 200 Portland Street, Boston, MA

Date:

August 10, 2020

SUMMARY OF PROPOSED WORK

1597 Washington Street Building Envelope Restoration, Boston, MA

APPLICATION FOR CERTICICATE OF DESIGN APPROVAL III. DESCRIPTION OF PROPOSED WORK – CONT.

1) EIFS Cladding Replacement with New Insulated Metal Panels:

- A) Remove and dispose of all existing EIFS and exterior sheathing in areas shown on the drawings.
- B) Install new sheathing, self-adhered weather barrier, insulation, and composite metal panel system. Integrate and sequence as needed with surrounding work and components such as windows, base of wall flashings, etc.
- * New metal panels to match existing EIFS in color and assembly thickness (ALPOLIC Composite Metal Panels by Mitsubishi Plastics Composites America, Inc. see Product Data Sheets in Appendix D)

2) Fenestration Replacement:

- A) Window replacement in kind: Remove existing window assemblies (including frames, glazing, and all accessories) on the South elevation on the sixth floor and on the partial north elevation on the fifth and sixth floors work areas as shown on the drawings. Provide new aluminum window system with all accessories such as fasteners, clips, etc. Install flashings and integrate perimeter conditions with the surrounding wall or terrace wateproofing to create an air- and water-tight window system.
- B) East and West Juliet elevation curtain wall reglazing: the existing curtain wall frame is to remain in place. Within the curtain wall, remove and dispose of the existing individual window frames and glazing installed within the curtain wall and replace them with new aluminum windows glazed into the curtain wall frame.
- C) Terrace doors replacement in kind: Remove and replace existing terrace doors, perimeter framing and fixed glazing. New terrace doors to be glazed into new curtain wall framing in kind as existing.
- * New windows to match existing in size, color, material and glazing/frame configuration (see Product Data Sheets in Appendix D)

3) Brick Masonry Cladding Restoration:

- A) Remove and dispose of all existing brick masonry veneer cladding, brick ties, and exterior sheathing in areas shown on the drawings.
- B) Install new sheathing, self-adhered weather barrier, insulation, and new brick masonry veneer to match the existing brick. Integrate and sequence as needed with surrounding work and components such as windows, base of wall flashings, scuppers, etc.
- * New brick and mortar to match existing in size, color and texture.



4) Scuppers and Gutters:

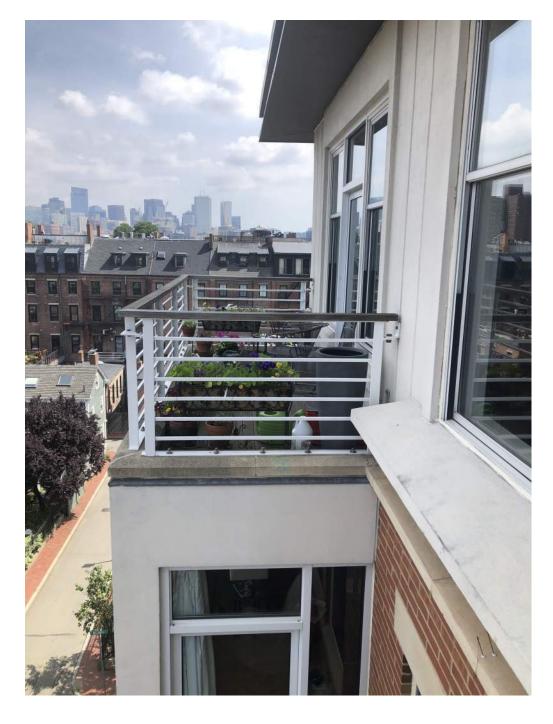
- A) South elevation (Washington Street) sixth floor terraces: provide two new scuppers (one existing primary, one new overflow) on the south elevation at each sixth floor terrace. Existing scupper locations can be re-used but will require modification to place the new scuppers at the correct elevation. Overflow scupper to extended beyond the plane of brick veneer and drain freely. Primary scupper to drain into pitched gutter. Gutter to connect to short downleader at brick piers that will direct water away from windows below.
- B) North elevation (rear alley) sixth floor terraces: remove and infill existing scuppers. Install two new scuppers (one primary, one overflow) on side of balcony and drain primary scupper to fifth floor terrace below via drain box and down leader.
- C) North elevation fifth floor terraces: provide two new scuppers (one primary, one overflow) on the north elevation at each fifth floor terrace. Existing scupper locations can be re-used but will require modification to place the new scuppers at the correct elevations. Overflow scupper to extended beyond the plane of brick veneer and drain freely. Primary scupper to drain into pitched gutter. Gutter to connect to downleader that will drain to the parking garage ramp below.
- D) Juliet balconies: re-use existing scupper outlets through structure at the Juliet balconies. New metal sleeves and integration with the balcony waterproofing will be required. Install new internal roof drains.

APPENDIX A

Reference Photos



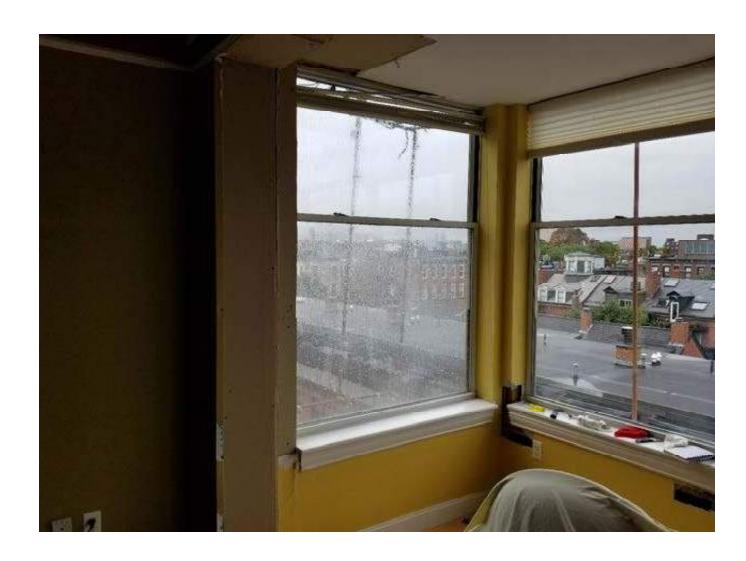
TYPICAL EXISTING WINDOWS and TERRACE DOORS
Washington Street View



TYPICAL EXISTING WINDOWS and TERRACE DOOR
6th Floor Terrace - Rear Alley View

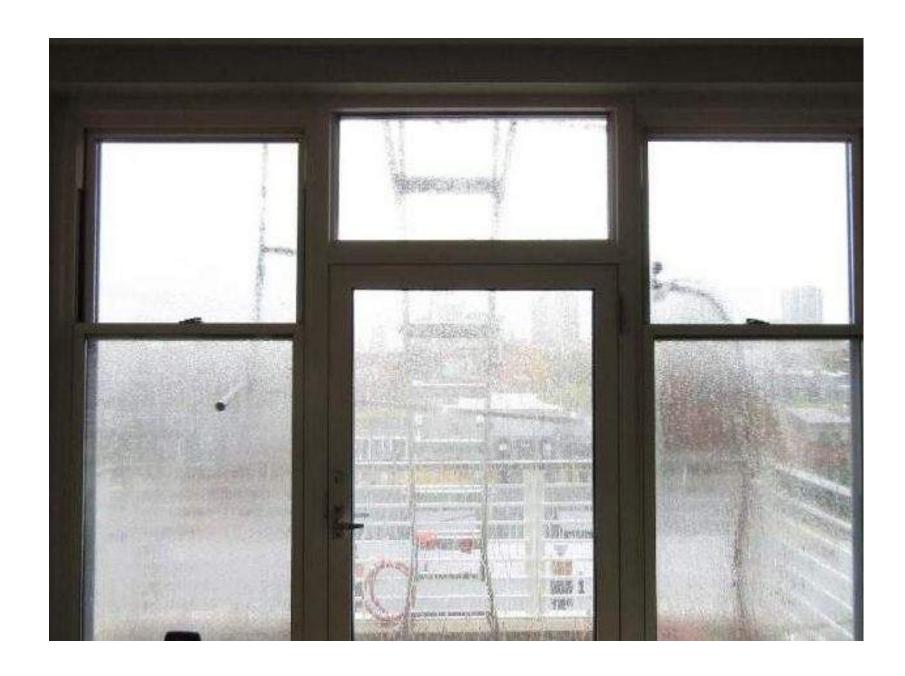






TYPICAL EXISTING DOUBLE HUNG WINDOWS Interior View





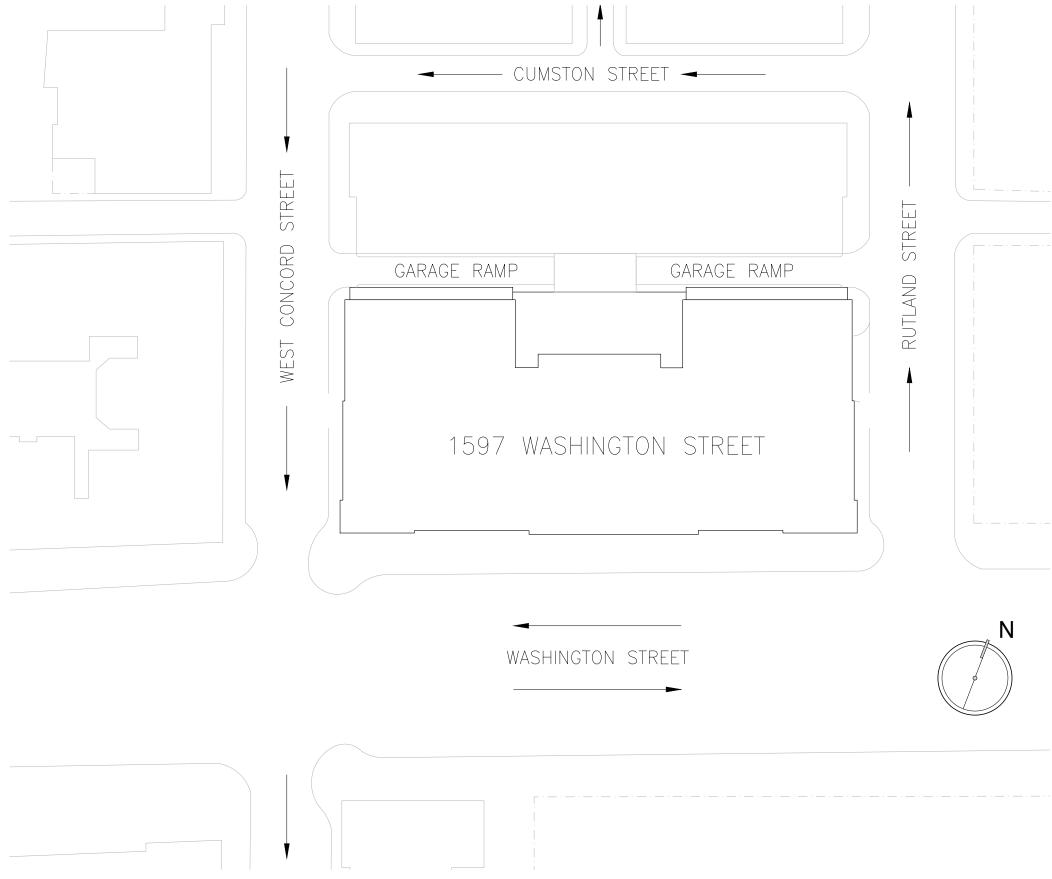
TYPICAL EXISTING TERRACE CURTAIN WALL and DOORS Interior View





APPENDIX B

Reference Drawings









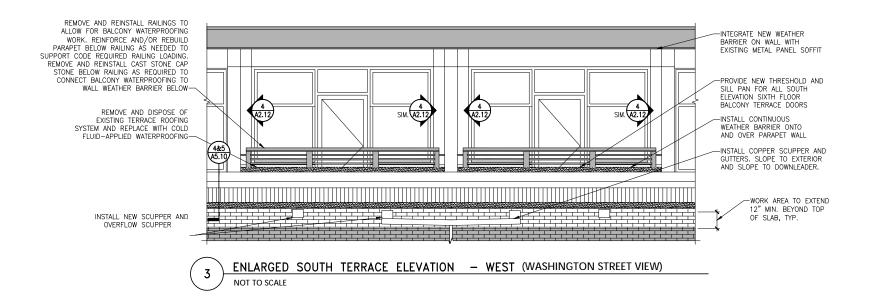




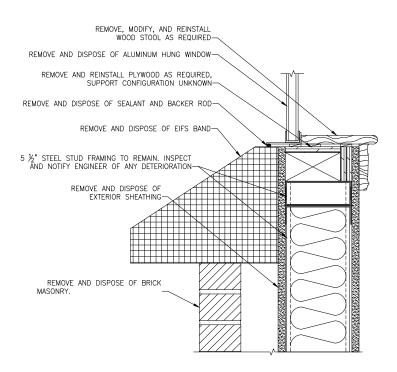
1 EAST ELEVATION (RUTLAND STREET VIEW)

NOT TO SCALE

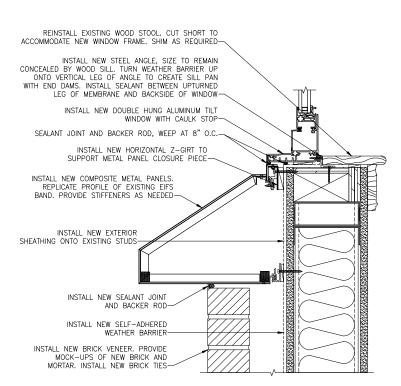
2 WEST ELEVATION (W. CONCORD STREET VIEW)
NOT TO SCALE







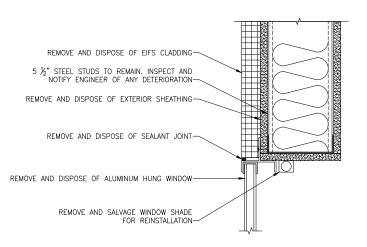
1 EXISTING WINDOW SILL AT EIFS
NOT TO SCALE



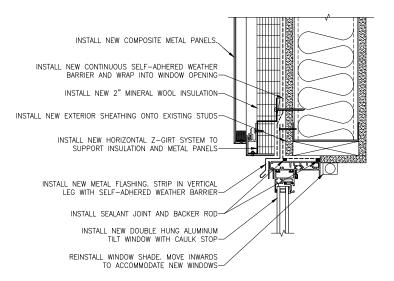
NEW WINDOW SILL AT COMPOSITE METAL PANELS

NOT TO SCALE



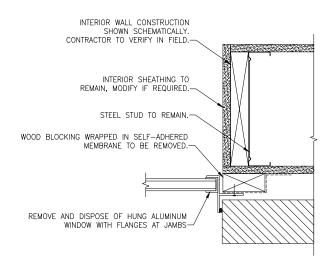


3 EXISTING WINDOW HEAD AT EIFS
NOT TO SCALE



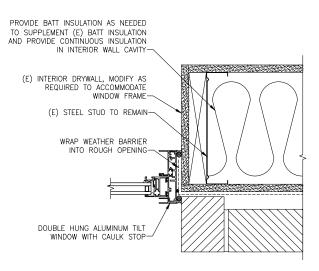
4 NEW WINDOW HEAD AT COMPOSITE METAL PANELS

NOT TO SCALE



5 EXISTING WINDOW JAMB AT BRICK

NOT TO SCALE



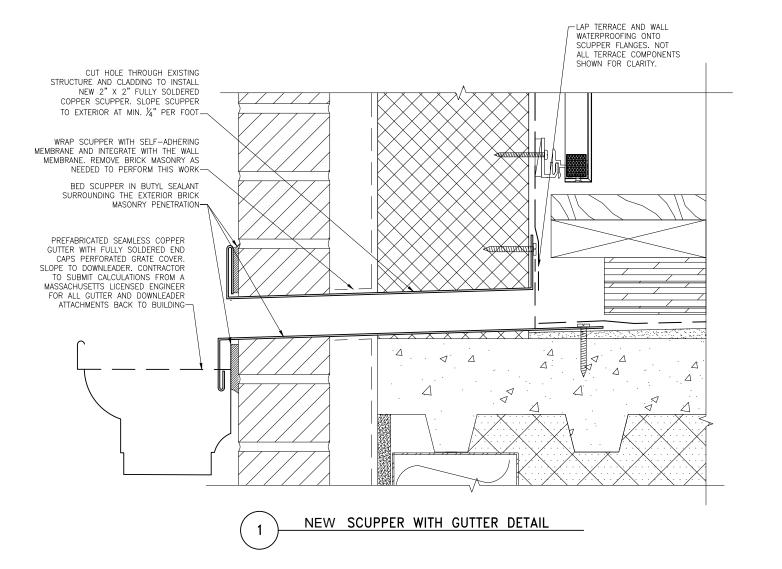
6 NEW WINDOW JAMB AT BRICK

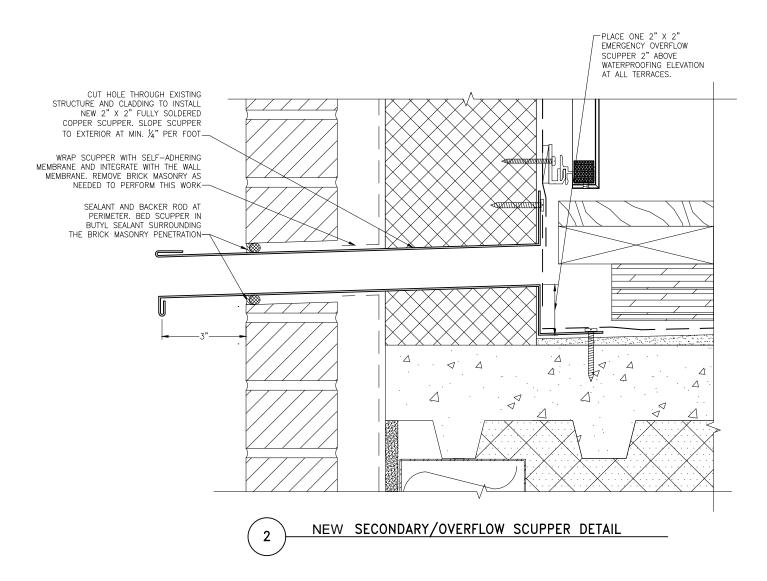
NOT TO SCALE

APPENDIX B

Application for Certificate of Design Approval Boston Landmarks Commission

1597 WASHINGTON STREET
BUILDING ENVELOPE RESTORATION
BOSTON, MA







EXISTING AND PROPOSED WINDOW AND DOOR SCHEDULE (WASHINGTON STREET)

	WINDOW SCHEDULE (WINDOWS INCLUDED IN SCOPE) - SOUTH ELEVATION		
WINDOW TYPE	QUANTITY	DIMENSIONS \pm 6", VERIFY IN FIELD	WINDOW DESCRIPTION - FRAMING CONDITION
W2	10	3'X6.5'	DOUBLE HUNG WINDOW WITH INTEGRAL FLANGE — NEW CURTAIN WALL FRAMING
W5	11	11 ' X6'	THREE GANGED DOUBLE HUNG WINDOWS — PUNCHED OPENING

DOOR SCHEDULE (DOORS INCLUDED IN SCOPE) - SOUTH ELEVATION			
DOOR TYPE	QUANTITY	DIMENSIONS \pm 6", VERIFY IN FIELD	DOOR DESCRIPTION - FRAMING CONDITION
D1	5	3.5'X7.5'	TERRACE DOOR — NEW CURTAIN WALL FRAMING

EXISTING AND PROPOSED WINDOW AND DOOR SCHEDULE (REAR ALLEY)

WINDOW SCHEDULE (WINDOWS INCLUDED IN SCOPE) - NORTH AND RETURN ELEVATIONS			
WINDOW TYPE	QUANTITY	DIMENSIONS ± 6", VERIFY IN FIELD	WINDOW DESCRIPTION - FRAMING CONDITION
W1	8	3'X5.5'	DOUBLE HUNG WINDOW — PUNCHED OPENING
W2	12	3'X6.5'	DOUBLE HUNG WINDOW WITH INTEGRAL FLANGE — NEW CURTAIN WALL FRAMING
W3	4	6.5'X6'	TWO GANGED DOUBLE HUNG WINDOWS — PUNCHED OPENING
W4	4	12.5'X6.5'	THREE GANGED DOUBLE HUNG WINDOWS — PUNCHED OPENING
W5	2	11'X6'	THREE GANGED DOUBLE HUNG WINDOWS — PUNCHED OPENING
W6	2	5'X6.5'	DOUBLE HUNG WINDOW — PUNCHED OPENING

DOOR SCHEDULE (DOORS INCLUDED IN SCOPE) - NORTH AND INSET ELEVATIONS			
DOOR TYPE	QUANTITY	DIMENSIONS \pm 6", VERIFY IN FIELD	DOOR DESCRIPTION - FRAMING CONDITION
D1	6	3.5'X7.5'	TERRACE DOOR — NEW CURTAIN WALL FRAMING
D2	6	3'X6.5'	TERRACE DOOR (INSET) – NEW CURTAIN WALL FRAMING

EXISTING AND PROPOSED WINDOW SCHEDULE (WEST CONCORD STREET)

WINDOW SCHEDULE (WINDOWS INCLUDED IN SCOPE) - WEST ELEVATION			WEST ELEVATION
WINDOW TYPE	QUANTITY	DIMENSIONS \pm 6", VERIFY IN FIELD	WINDOW DESCRIPTION - FRAMING CONDITION
W5	1	11'X6'	THREE GANGED DOUBLE HUNG WINDOWS — PUNCHED OPENING
W7	4	3.5'X6'	DOUBLE HUNG WINDOW WITH INTEGRAL FLANGE — EXISTING CURTAIN WALL FRAMING
W8	1	5'x6.5'	DOUBLE HUNG WINDOW — PUNCHED OPENING

EXISTING AND PROPOSED WINDOW SCHEDULE (RUTLAND STREET)

WINDOW SCHEDULE (WINDOWS INCLUDED IN SCOPE) - EAST ELEVATION			
WINDOW TYPE	QUANTITY	DIMENSIONS \pm 6", VERIFY IN FIELD	WINDOW DESCRIPTION - FRAMING CONDITION
W5	1	11'X6'	THREE GANGED DOUBLE HUNG WINDOWS — PUNCHED OPENING
W7	4	3.5'X6'	DOUBLE HUNG WINDOW WITH INTEGRAL FLANGE — EXISTING CURTAIN WALL FRAMING
W8	1	5'x6.5'	DOUBLE HUNG WINDOW — PUNCHED OPENING



APPENDIX C

Design Renderings

EXISTING EIFS
FACADE AT 6TH
FLOOR ONLY



EXISTING EIFS FACADE

Washington St. View



NEW METAL PANEL FACADE



PROPOSED METAL PANEL FACADE

Washington St. View





EXISTING EIFS FACADE

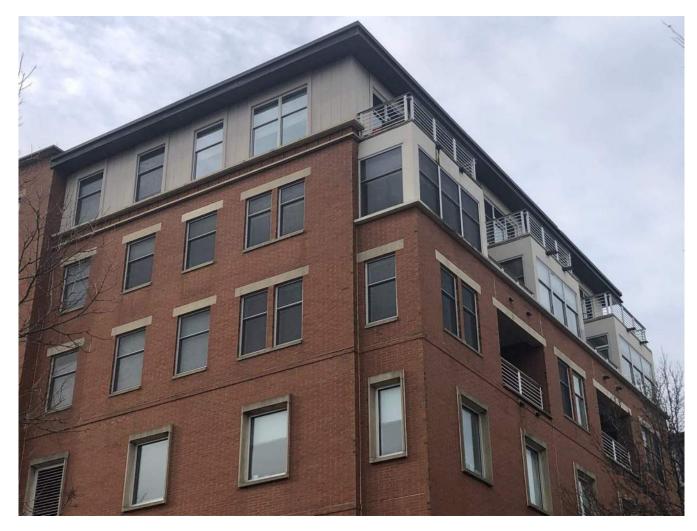
Washington St. View



PROPOSED METAL PANEL FACADE

Washington St. View





EXISTING EIFS FACADE

Rutland St. View



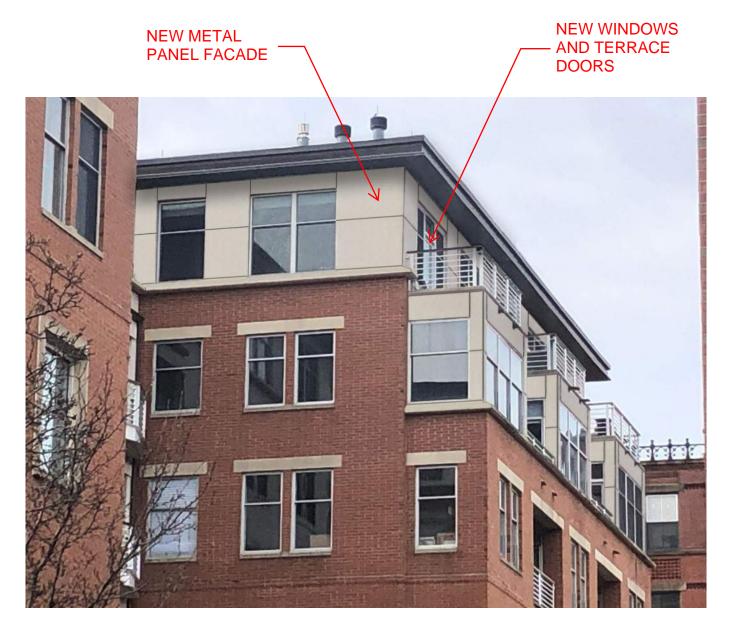
PROPOSED METAL PANEL FACADE

Rutland St. View





EXISTING EIFS FACADE
Rutland St. View



PROPOSED METAL PANEL FACADE

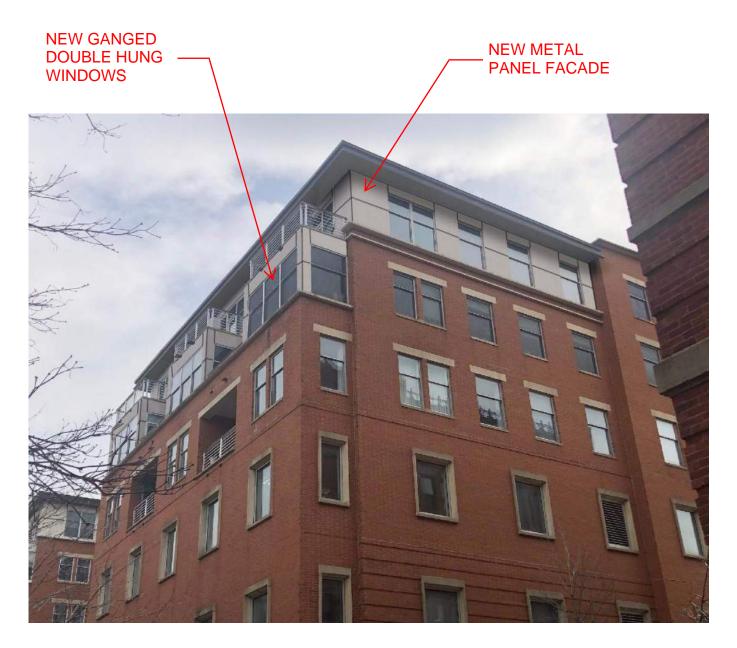
Rutland St. View





EXISTING EIFS FACADE

W. Concord St. View



PROPOSED METAL PANEL FACADE

W. Concord St. View



APPENDIX D

Product Data Sheets

1. Metal Panels

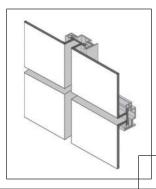
Product Data Sheets



MITSUBISHI CHEMICAL COMPOSITES AMERICA, INC.

architectural - solid

ALPOLIC* architectural Solid color aluminum composite materials are manufactured with a polyethylene core and a 2-coat fluoropolymer paint finish. Distinctive classics of the industry, they are stocked for immediate shipment.



CONSTRUCTION INFORMATION

PROJECT: Ashland Community College

LOCATION: Grayson, KY

ARCHITECT: Clotfelter-Samokar

PRODUCT: ALPOLIC® Mist White & KDX



GENERAL INFORMATION

Picture your next project in attractive, clean colors and designs that only our lightweight aluminum composite material (ACM) panels can achieve. They are stocked in two widths – 50 and 62 inches; and two lengths – 146 and 196 inches. These 4mm-thick panels are manufactured to architectural standards with a traditional polyethylene core.



4-4BNT-G30

4-4MST-G30

4-4CRT-G30

4-4AGT-G30

4-4TOB-G15

ALPOLIC°

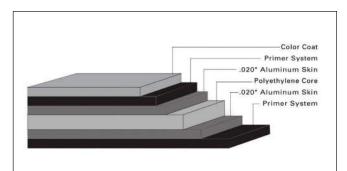
solid

INTERIOR AND EXTERIOR SURFACING INTERIOR AND EXTERIOR SIGNAGE

SURFACE TREATMENT

ALPOLIC* architectural Solid color panels are stocked with a FEVE LUMIFLON™ or a PVDF Kynar finish, both are fluoroploymer paint systems that feature excellent durability and weathering for architectural needs.

Available stock architectural Solid colors include Bone White, Mist White, Oyster, Aluminum Grey, BGY Grey, and TOB Black.



STANDARD PANEL SIZE

Standard widths are 50" (1270mm) and 62" (1575mm) and lengths of 146" (3708mm) and 196" (4978mm). Panels are stocked in 4mm thickness. Standard crate is 50 pieces. Custom lengths and thickness available. Please contact ALPOLIC* Customer Service for current available stock and additional information.

FINISH TOLERANCE

Color: DE 1.0 max from standard Gloss: Nominal +/- 10 units

PRODUCT TOLERANCE

Width: \pm 0.08" (2mm) Length: \pm 0.16" (4mm)

Thickness: $4mm \pm 0.008" (0.2mm)$

 $6mm \pm 0.012" (0.3mm)$

Bow: maximum 0.5% of length

and/or width

Squareness: maximum 0.2" (5mm)

Peel Strength: >22 in lb/in (ASTM D1781)

ALPOLIC* material is trimmed and squared with cut edges to offer the best panel edge conditions in the industry.

FIRE PERFORMANCE

Standard ALPOLIC* architectural Solid finish panels with a polyethylene core have been tested by independent testing laboratories using nationally recognized tests.

This material meets all requirements of the International Building Code for combustible construction:

IBC Listed
UL Listed

Please visit www.alpolic-northamerica.com or call technical support for complete report listings and additional information.

WARRANTY

Standard panel warranty: 10 Year
Finish warranty: 30 Year*

Call ALPOLIC* Customer Service for exclusions and warranty details.*30 year warranty only applies to standard architectural colors

PRODUCT NOTES

- Panels should be stored flat in a dry, indoor environment.
- Fabricate panels at temperatures above 55°F.
- Protective film should be removed from panels soon after installation.
- Please refer to ALPOLIC* Painted ACM Fabrication Manual for routing and fabrication recommendations.
- Crating fees apply to orders for less than standard piece crate.

FOR TECHNICAL INFORMATION, PLEASE CALL 1.800.422.7270

U.S. HEADQUARTERS

★MITSUBISHI CHEMICAL COMPOSITES AMERICA, INC. 401 Volvo Parkway, Chesapeake, VA 23320 Telephone: 800-422-7270, Facsimile: 757-436-1896 www.alpolic-americas.com e-mail: info@alpolic.com

2. Architectural Windows

Product Data Sheets

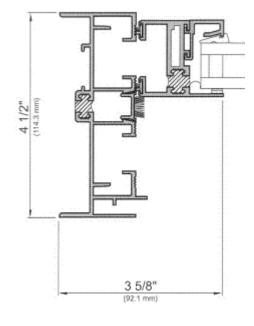


TECHNICAL GUIDE

DOUBLE HUNG and FIXED

3150-DHT Tilt Sash Series

Architectural Windows





Features

- √ 4½" frame depth with polyurethane thermal barrier
- ✓ Up to AAMA AW70 Performance Class
- ✓ Flush screen frame
- ✓ Sturdy corner-blocked and crimped sash construction
- ✓ Extruded aluminum or slide-in steel anchors
- ✓ Meeting rail latches
- ✓ Accepts 1" insulating glass; bead glazed
- ✓ Beveled sash option
- ✓ Block and tackle or Ultralift® balances
- ✓ Dual glazed option with hinged or lift-out access panels
- √ 5/8" between-glass Venetian blinds available
- ✓ Head, sill and jamb receptors available
- ✓ Broad selection of renovation panning
- ✓ Offered through Advantage by Wausau
- ✓ High recycled content aluminum framing







DISCLAIMER: Wausau Window and Wall Systems takes no responsibility for product selection or application, including, but not limited to, compliance with building codes, safety codes, laws, merchantability or fitness for a particular purpose; and further disclaims all liability for the use, in whole or in part, of this Technical Guide in preparation of project specifications and/or other documents. Technical Guides are subject to change at any time, without notice, and at Wausau's sole discretion. ©2014 Apogee Wausau Group, Inc.