

AGENDA
VIRTUAL BIRMINGHAM DESIGN REVIEW BOARD MEETING
WEDNESDAY – October 7th, 2020
******* 7:15 PM*******

Link to Access Virtual Meeting: <https://zoom.us/j/91282479817>
Telephone Meeting Access: 877 853 5247 US Toll-free
Meeting ID Code: 912 8247 9817

- 1) Roll Call
- 2) [Approval of the DRB Minutes of September 16th, 2020](#)
- 3) Public Hearing
- 4) Design Review
- 5) Sign Review
- 6) Study Session
- 7) Miscellaneous Business and Communication
 - A. Pre-Application Discussions
 - B. Staff Reports
 1. [Administrative Sign Approvals](#)
 2. [Administrative Approvals](#)
 3. [Action List – 2020](#)
- 8) Adjournment

Notice: Individuals requiring accommodations, such as interpreter services for effective participation in this meeting should contact the City Clerk's Office at [\(248\) 530-1880](tel:2485301880) at least on day in advance of the public meeting.

Las personas que requieren alojamiento, tales como servicios de interpretación, la participación efectiva en esta reunión deben ponerse en contacto con la Oficina del Secretario Municipal al [\(248\) 530-1880](tel:2485301880) por lo menos el día antes de la reunión pública. (Title VI of the Civil Rights Act of 1964).

A PERSON DESIGNATED WITH THE AUTHORITY TO MAKE DECISIONS MUST BE PRESENT AT THE MEETING.

DESIGN REVIEW BOARD
MINUTES OF SEPTEMBER 16, 2020
Held Remotely Via Zoom And Telephone Access

Minutes of the regular meeting of the Design Review Board ("DRB") held Wednesday, September 16, 2020. Chairman John Henke called the meeting to order at 7:43 p.m.

1) ROLL CALL

Present: Chairman John Henke; Vice-Chairman Keith Deyer; Board Members Gigi Debbrecht, Natalia Dukas, Michael Willoughby

Absent: Board Members Joseph Mercurio, Patricia Lang; Alternate Board Member Alexander Jerome

Administration: Nicholas Dupuis, City Planner
Laura Eichenhorn, Transcriptionist

09-64-20

2) Approval Of Minutes

Motion by Ms. Dukas

Seconded by Ms. Debbrecht to approve the DRB Minutes of September 2, 2020 as submitted.

Motion carried, 5-0.

ROLL CALL VOTE

Yeas: Willoughby, Debbrecht, Dukas, Deyer, Henke

Nays: None

09-65-20

3) Public Hearing

None.

09-66-20

4) Design Review

None.

09-67-20

5) Sign Review

None.

09-68-20

6) Study Session

None.

09-69-20

7) Miscellaneous Business And Communications

City Planner Dupuis asked the DRB whether they would be inclined to permit Holiday Market Select to install signage with seven descriptor words that would run along the the top of the front-facing facade of the building.

Ms. Dukas said that for consistency's sake it would be inappropriate for the DRB to allow the signage with the descriptor words since the DRB has been strict on the matter with other applicants.

Mr. Deyer agreed with Ms. Dukas.

A. Staff Reports

1. Administrative Sign Approvals

Mr. Deyer expressed surprise that City Planner Dupuis approved Viga Shoes & Fashion given the descriptor words on the sign.

City Planner Dupuis explained that the sign had previously been approved with Shoes & Fashion when the business was on Maple. He said that 'Viga' itself does not clearly indicate the type of business so he felt it was acceptable to leave the descriptors.

Mr. Deyer said a similar argument could be made for many shops in Birmingham. He said Shoes & Fashion could have been included as window signage.

Ms. Dukas agreed. She also said Viga's location means that one visits the store intentionally, and not because one is driving by, which means the descriptor words are even less necessary.

Mr. Deyer said he would be more comfortable with the signage if Viga changed Shoes & Fashion to pictograms that indicate the same. He also said the bottom six inches of the windows would allow for sufficient promotion of Viga's products.

2. Administrative Approvals

3. Action List - 2020

09-70-20

Adjournment

Motion by Mr. Deyer

Seconded by Ms. Debbrecht to adjourn the DRB meeting of September 16, 2020 at 7:51 p.m.

Motion carried, 5-0.

ROLL CALL VOTE

Yeas: Willoughby, Debbrecht, Dukas, Deyer, Henke

Nays: None

Nicholas Dupuis
City Planner

APPROVED
9/23/2020
PA-120-0098



Administrative Sign Approval Application Planning Division

Form will not be processed until it is completely filled out.

1. Applicant

Name: GARDNER SIGNS INC.
Address: 1087 NAUGHTON RD
TROY, MI 48083
Phone Number: 248-689-9100 X100
Fax Number: _____
Email Address: EVICTOR@GARDNERSIGNS.COM

2. Property Owner

Name: KEVIN DENHA/LINCOLN ADAMS LLC
Address: 700 N. OLD WOODWARD AVE
STE 300 BIRMINGHAM, MI 48009
Phone Number: 248-865-1515
Fax Number: _____
Email Address: _____

3. Applicant's Attorney/Contact Person

Name: MIA ASTA, C/O GARDNER SIGNS
Address: 1087 NAUGHTON RD
TROY, MI 48083
Phone Number: 248-425-4900
Fax Number: _____
Email Address: MIA@GARDNERSIGNS.COM
(OR) EVICTOR@GARDNERSIGNS.COM

4. Project Designer/Developer

Name: GARDNER SIGNS INC.
Address: 1087 NAUGHTON RD
TROY, MI 48083
Phone Number: 248-689-9100 X100
Fax Number: _____
Email Address: EVICTOR@GARDNERSIGNS.COM

5. Project Information

Address/Location of Property: 1185 S. ADAMS RD.
BIRMINGHAM, MI 48009
Name of Development: ROY, SHELTER & VOCHT
Parcel ID#: 08-99-00-017-052
Current Use: _____
Area in Acres: _____
Current Zoning: BP

Name of Historic District if any: _____
Date of HDC Approval, if any: _____
Date of Application for Preliminary Site Plan: _____
Date of Preliminary Site Plan Approval: _____
Date of Application for Final Site Plan: _____
Date of Final Site Plan Approval: _____
Date of Revised Final Site Plan Approval: _____

6. Required Attachments

- Two (2) folded paper copies of plans including details of the following:
 - Dimensions of proposed sign(s)
 - Dimensions of building frontage
 - Illumination
 - Height from grade
- Location of proposed sign(s)
- Colors and materials
- Authorization from Property Owner(s) (if applicant is not the owner)
- Material Samples
- Digital Copy of Plans

7. Details of the Request for Administrative Approval

INSTALL 47' 27.5' IF - NON-ILLUMINATED WALL SIGN

8. Location of Proposed Sign(s)

ABOVE ENTRYWAY SUITE B ALONG RUFFNER AVE ELEVATION

9. Type of Proposed Sign(s)

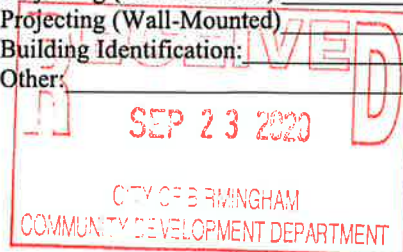
Wall: 3'-4" x 8'-3" (27.5' IF)
Ground: _____
Name Letter: _____
Canopy: _____

Projecting (Post-Mounted): _____

Projecting (Wall-Mounted): _____

Building Identification: _____

Other: _____



10. Size of Proposed Sign

Width: 8'-3"
Depth: 5"
Height of Lettering: 5 1/2" TO 1'-7"

Overall Height: 3'-4"
Extension from Wall: 5"
Total Square Feet: 27.5 SF

11. Existing Signs Currently on Property

Number: _____
Square Feet per Sign: _____

Sign Type(s): _____
Total Square Feet: _____

12. Materials/Style of Proposed Sign(s)

Metal: ALUMINUM
Plastic: SINTRA - PVC
Wood: _____
Glass: _____

Other: _____
Color #1: WHITE - LETTERS
Color #2: BLACK - BACKGROUND
Additional Colors: _____

13. Content of Proposed Sign(s)

ROY, SPECTER & VOCHT IN/LOGO

14. Proposed Sign Lighting

Type of Lighting: N/A
Size of Fixtures (LxWxH): _____
Maximum Wattage per Fixture: _____
Proposed Wattage per Fixture: _____

Location: _____
Number of Lights Proposed: _____
Height from Grade: _____
Lighting Style: _____

15. Landscaping (Ground Signs Only)

Location of Landscape Areas: _____

Proposed Landscape Material: _____

The undersigned states the above information is true and correct, and understands that it is the responsibility of the applicant to advise the Planning Division and / or Building Division of any additional changes to the approved site plan.

Signature of Applicant: Edie Victor

Date: 9-14-2020

Office Use Only

Application # PAA20-0098

Date Received: 9/23/2020

Fee: \$100.00

Date of Approval: 9/23/2020

Date of Denial: N/A

Reviewed By: [Signature]



City of Birmingham
Official of the City of Birmingham

CONSENT OF PROPERTY OWNER

I, Kevin Denha, OF THE STATE OF Michigan AND
(Name of Property Owner)
COUNTY OF Oakland STATE THE FOLLOWING:

1. That I am the owner of real estate located at 11850 S. Adams;
(Address of Affected Property)
2. That I have read and examined the Application for Administrative Approval made to the City of
Birmingham by: Michelle E. Vocht;
(Name of Applicant)
3. That I have no objections to, and consent to the request(s) described in the Application made to the City of
Birmingham.

By providing your e-mail to the City, you agree to receive news notifications from the City. If you do not wish to receive these messages, you may unsubscribe at any time.

Name of Owner (Printed): Kevin Denha

Signature of Owner: _____

Date: 9-14-20

Remove Existing Sign - Rework in Shop - Install at New Location - Roy Shecter & Vocht 1185 S Adams Rd-Birmingham MI

Rework Sign in Shop at GSI

1/4" = 1'-0" Scale

Existing Illuminated GLOW Sign



New Aluminum Panel Reface - Install to Glow Cabinet

1/2" = 1'-0" Scale



Qty: 1
Flat Aluminum Panel with FCO Letters and Logo Icon
Paint Panel Black
Flush Mount Letters and Logo Icon
Attach Panel with Letters and Logo to Existing Cabinet
Face with Countersunk Screws Painted Black
Accurate Artwork Required from Client

Side View Detail



Remove Sign at 1185 S Adams Rd - Birmingham, MI - Bring Back to GSI



Install Reworked Sign at 1185 S Adams Rd - Birmingham, MI

3/16" = 1'-0" Scale



Entire Street Front at Ruffner Avenue - Birmingham, MI



86'-7" total street side length of building facing Ruffner Avenue

Note: This sign is intended to be installed in accordance with the requirements of Article 600 of the National Electrical Code and for other applicable local codes. This includes proper grounding and bonding of the sign.

**Gardner
signs**

MICHIGAN
1087 Naughton Dr
Troy, MI 48063
(248) 689-9100 T
(248) 689-9101 fax

OHIO
3800 Airport Hwy
Toledo, OH 43615
(419) 395-6669 T
(419) 395-7046 fax

www.gardnersigns.com

CLIENT: Roy Shecter & Vocht
PROJECT: Illuminated Exterior Wall Sign
LOCATION: 1185 S Adams Rd
Birmingham MI
SALESPERSON: Mia Asta
DESIGNER: dmf
DATE: 08/11/2020
DESIGN #: 5124-1
REVISIONS: 08/17/2020 08/27/2020 09/11/2020
SCALE: Noted
FILE: Roy Shecter & Vocht 1185 S Adams Rd-Birmingham MI

SALES AUTHORIZATION

SIGNED BY:
DATE:

DESIGN AUTHORIZATION

SIGNED BY:
DATE:

PRODUCTION AUTHORIZATION

CLIENT APPROVAL:

DATE:

PRODUCTION APPROVAL:

DATE:

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COLORS CONTAINED WITHIN THIS RENDERING MAY VARY SLIGHTLY FROM THE ACTUAL FINISHED PRODUCT DUE TO COMPUTER AND PRINTER OUTPUT LIMITATIONS.

APPROVED
9/23/2020
PAA20-0018

Window and Door Vinyls at New Location - Roy Shecter & Vocht 1185 S Adams Rd-Birmingham MI

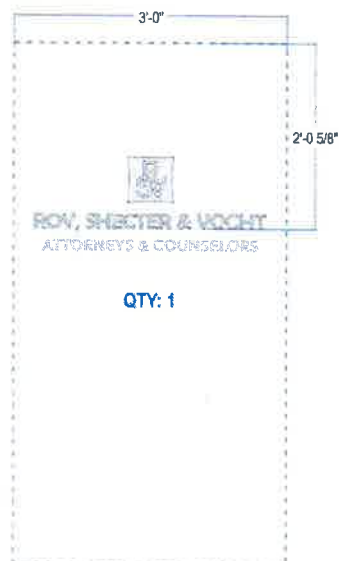
First Surface Frosted Vinyl for Entrance Door

1 1/2" = 1'-0" Scale



Layout on Door

1 1/2" = 1'-0" Scale



Install Reworked Sign at 1185 S Adams Rd - Birmingham, MI

3/16" = 1'-0" Scale



**Gardner
signs**

MICHIGAN
1087 Naughton Dr
Troy, MI 48063

(248) 689-9100 T
(248) 689-9101 fax

OHIO
3800 Airport Hwy
Toledo, OH 43615

(419) 385-6669 T
(419) 385-7046 fax

www.gardnersigns.com

CLIENT: Roy Shecter & Vocht
PROJECT: Window & Door Vinyls
LOCATION: 1185 S Adams Rd
Birmingham MI
SALESPERSON: Mia Asta
DESIGNER: dmf
DATE: 08/11/2020
DESIGN #: 5124-1
REVISIONS: 08/17/2020 08/27/2020
SCALE: Noted
FILE: Roy Shecter & Vocht_1185 S Adams Rd-Birmingham MI

SALES AUTHORIZATION

SIGNED BY:

DATE:

DESIGN AUTHORIZATION

SIGNED BY:

DATE:

PRODUCTION AUTHORIZATION

CLIENT APPROVAL:

DATE:

PRODUCTION APPROVAL:

DATE:

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COLORS CONTAINED WITHIN THIS RENDERING MAY VARY SLIGHTLY FROM THE ACTUAL FINISHED PRODUCT DUE TO COMPUTER AND PRINTER OUTPUT LIMITATIONS.

APPROVED
1/30/2020
PAA 20-0099



Administrative Approval Application Planning Division

Form will not be processed until it is completely filled out.

1. Applicant

Name: Joseph Bongiovanni
Address: 583 N. Old Woodward
Birmingham MI 48009
Phone Number: 248 425 4395
Fax Number:
Email Address: J.BONGI@GMAIL.COM

2. Property Owner

Name: LPH Ventures
Address: 28400 Northwestern Hwy, 4th Floor, Southfield, MI 48034
Phone Number:
Fax Number:
Email Address:

3. Applicant's Attorney/Contact Person

Name:
Address:
Phone Number:
Fax Number:
Email Address:

4. Project Designer/Developer

Name: Ron And Roman
Address: 275 East Frank Street
Birmingham, Michigan 48009
Phone Number: 248-723-5790
Fax Number:
Email Address: darrell@ronandroman.com

5. Project Information

Address/Location of Property: 470 North Old Woodward, Facade Improvements
Name of Development: Existing Building "Park View"
Parcel ID#: 1925330001
Current Use: Vacant Tenancy
Area in Acres:
Current Zoning: B-2, D-2 Overlay

Name of Historic District if any:
Date of HDC Approval, if any:
Date of Application for Preliminary Site Plan:
Date of Preliminary Site Plan Approval:
Date of Application for Final Site Plan:
Date of Final Site Plan Approval:
Date of Revised Final Site Plan Approval:

6. Required Attachments

- Warranty Deed with legal description of property
- Authorization from Owner(s) (if applicant is not owner)
- Completed Checklist
- Material Samples
- Specification sheets for all proposed materials, fixtures, and/or mechanical equipment
- One (1) digital copy of plans
- Two (2) folded copies of plans including an itemized list of all changes for which administrative approval is requested, with the changes marked in color on all elevations
- Photographs of existing conditions on the site where changes are proposed

7. Details of the Request for Administrative Approval

Change the suspended trellis from steel members with a sealed rusted finish to stained and sealed wood members as shown on submitted revised drawings A201 and A202.

The undersigned states the above information is true and correct, and understands that it is the responsibility of the applicant to advise the Planning Division and/or Building Division of any additional changes to the approved site plan.

Signature of Applicant:  Date: 9/20/2020

Application #: PAA20-0099

Date Received: 9/23/2020

Fee: \$100.00

Date of Approval: 1/30/2020

Date of Denial:

Reviewed By: 



CONSENT OF PROPERTY OWNER

I, LPH Ventures OF THE STATE OF MICHIGAN AND
(Name of Property Owner)
COUNTY OF Oakland STATE THE FOLLOWING:

1. That I am the owner of real estate located at 470-472 North Old Woodward
(Address of Affected Property)
2. That I have read and examined the Application for Administrative Approval made to the City of
Birmingham by: Joseph Bonglovani
(Name of Applicant)
3. That I have no objections to, and consent to the request(s) described in the Application made to the City of
Birmingham.

By providing your e-mail to the City, you agree to receive news notifications from the City. If you do not wish to receive these messages, you may unsubscribe at any time.

Name of Owner (Printed): Thomas Lasky

Signature of Owner: Tran Lam Date: 9/22/20

R O N A N D R O M A N

M E M O R A N D U M

To: **Nicholas DuPuis**
 Planning Department
 City of Birmingham

Address: *151 Martin St.*
 Birmingham, MI 48009

From: *Ron and Roman*

Date: *September 17, 2020*

Re: ***470 North Old Woodward Avenue – Façade Improvements***

Mr. DuPuis,

Attached please find the one hard copy of the revised drawings showing the change from a steel trellis to a wood trellis for 470 North Old Woodward. Per our telephone conversation last week these were the drawings you needed for your review and administrative approval of the material change. Should you require any additional information from our office, please do not hesitate to call me at 313.570.9672.

Thank you,
Darrell J. Dinges

RECEIVED
SEP 21 2020
CITY OF BIRMINGHAM
COMMUNITY DEVELOPMENT DEPARTMENT

RECEIVED



1 North Elevation
scale: 1/4" = 1'-0"



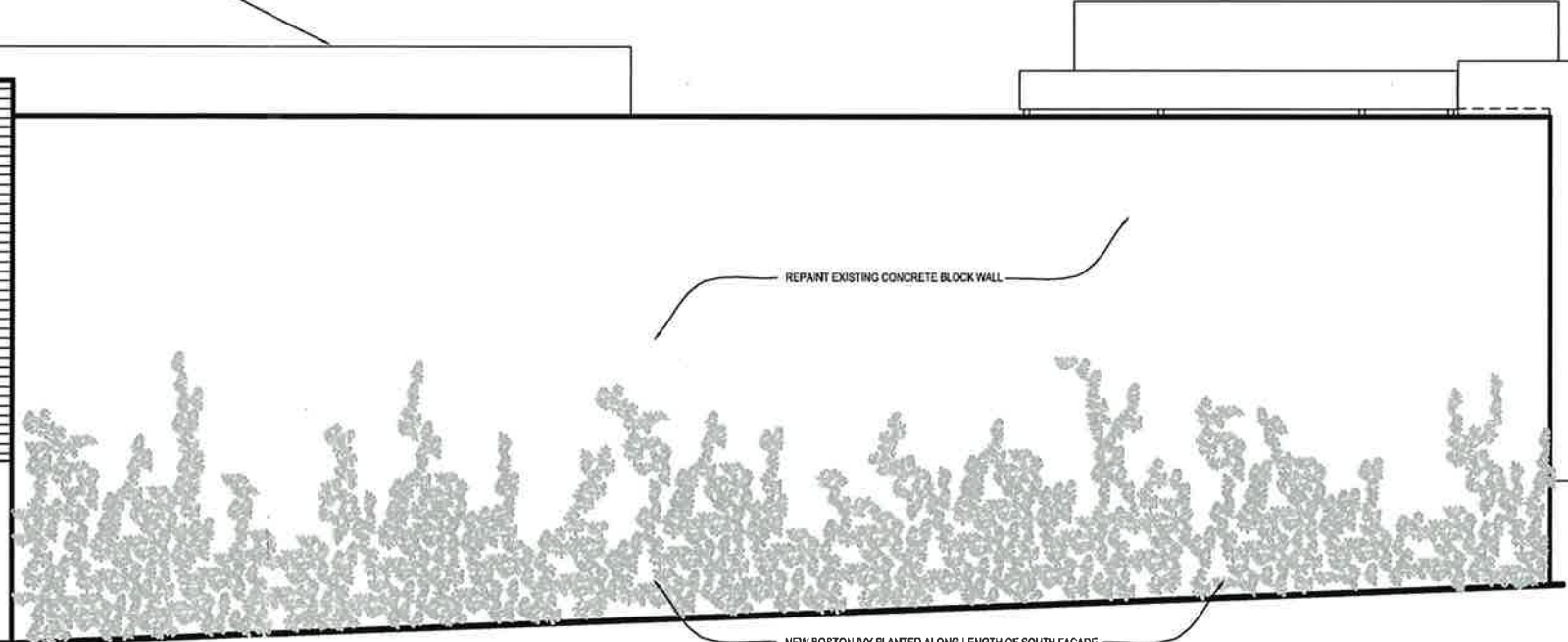
3 West Elevation
scale: 1/4" = 1'-0"

MDO EQUIPMENT SCREEN PAINTED TO MATCH BUILDING COLOR -
HEIGHT TO MATCH TALLEST EQUIPMENT

DARK BRONZE CAP ON INCREASED PARAPET WALL
NEW SHOU SUGI BAN (FLAME TREATED WOOD) SIDING

NEW METAL MESH PANELS - BY OWNER
SUSPENDED STAINED AND SEALED WOOD TRELLIS
WITH SLOPED FABRIC PANELS BETWEEN
(SUNBRELLA "WHEAT")

PAINTED STEEL RAIL
NEW HONED GRANITE BASE



2 South Elevation
scale: 1/4" = 1'-0"

MDO EQUIPMENT SCREEN PAINTED TO MATCH BUILDING
COLOR (BEYOND) - HEIGHT TO MATCH TALLEST EQUIPMENT
DARK BRONZE CAP ON INCREASED PARAPET WALL
NEW SHOU SUGI BAN (FLAME TREATED WOOD) SIDING
SUSPENDED STAINED AND SEALED WOOD TRELLIS
WITH SLOPED FABRIC PANELS BETWEEN
(SUNBRELLA "WHEAT")
SEALED RUSTED STEEL WRAPPED SHAFT

DOOR AND SIDE PANELS FACED WITH SEALED RUSTED STEEL
WITH NARROW GLAZED CENTER PANEL
PAINTED STEEL RAIL
REWORKED DARK BRONZE ALUMINUM STOREFRONT
WITH CLEAR GLASS TO MEET THE BUILDING CODE
NEW RELOCATED GLAZED AND PAINTED WOOD ENTRY DOOR
NEW CONCRETE STEPS - REPLACE/EXTEND EXISTING
NEW HONED GRANITE BASE

211.1 SF OF GLAZING OF 275.2 SF TOTAL = 76.7%
BETWEEN 12" AND 6'-0" ABOVE GRADE
ALONG STREET FACADE

REPAINT EXISTING CONCRETE BLOCK WALL

NEW BOSTON IVY PLANTED ALONG LENGTH OF SOUTH FACADE

APPROVED
9/30/2020
PAA 20-0099



NEW GLAZED AND PAINTED WOOD SHARED ENTRY DOOR



- NEW BRONZE CAP ON INCREASED PARAPET WALL
- NEW SHOU SUGI BAN (FLAME TREATED WOOD) SIDING
- (4) EXISTING RECESSED CAN LIGHTS TO REMAIN
(8) EXISTING RECESSED SPECIALTY CAN LIGHTS REMOVED (NOT SHOWN)
- NEW METAL MESH PANELS - BY OWNER
- SEALED RUSTED STEEL WRAPPED SHAFT
- SUSPENDED STAINED AND SEALED WOOD TRELLIS WITH SLOPED FABRIC PANELS BETWEEN (SUNBRELLA "WHEAT")
- DOOR AND SIDEPANELS FACED WITH SEALED RUSTED STEEL WITH NARROW GLAZED CENTER PANEL
- NEW HONED GRANITE BASE
- REWORKED DARK BRONZE ALUMINUM STOREFRONT WITH CLEAR GLASS TO MEET THE BUILDING CODE
- PAINTED STEEL RAIL

1 Looking North from Old Woodward
not to scale



- NEW BRONZE CAP & EXTENDED FASCIA ON INCREASED PARAPET WALL
- NEW SHOU SUGI BAN (FLAME TREATED WOOD) SIDING
- (4) EXISTING RECESSED CAN LIGHTS TO REMAIN
(8) EXISTING RECESSED SPECIALTY CAN LIGHTS REMOVED (NOT SHOWN)
- SEALED RUSTED STEEL WRAPPED SHAFT
- SUSPENDED STAINED AND SEALED WOOD TRELLIS WITH SLOPED FABRIC PANELS BETWEEN (SUNBRELLA "WHEAT")
- DOOR AND SIDEPANELS FACED WITH SEALED RUSTED STEEL WITH NARROW GLAZED CENTER PANEL

- PAINTED STEEL RAIL
- REWORKED DARK BRONZE ALUMINUM STOREFRONT WITH CLEAR GLASS TO MEET THE BUILDING CODE
- NEW CONCRETE STEPS - REPLACE/EXTEND EXISTING
- NEW HONED GRANITE BASE

2 Looking South from Old Woodward
not to scale

Project:

Seal:

Issue Date:

REVIEW

REVIEW

DRB APPLICATION

REVISION

REVISION

Sheet Title:

Exterior R

Sheet Number:



City of Birmingham
11th World Community

Eton II

Administrative Approval Application Planning Division

Form will not be processed until it is completely filled out

APPROVED

9/18/2020
 PAA 20-0101

1. Applicant Action Fence of Michigan
 Name: _____
 Address: 4248 Delemere Court
 Royal Oak MI 48073
 Phone Number: _____
 Fax Number: _____
 Email: actionfence24@sbcbglobal.net 248 542-3900
 248 542-6903 Fax

Property Owner
 Name: Eton Street Station II
 Address: Condominiums Association
 3080 Orchard Lake, Suite J, Keego Harbor
 Phone Number: 248-613-5592 MI 48320
 Fax Number: 248-724-2212
 Email: ctoles@highlandergroup.net

2. Applicant's Attorney/Contact Person
 Name: Constance Toles
 Address: 3080 Orchard Lake Rd
 Suite J, Keego Harbor, MI 48320
 Phone Number: 2-613-5592
 Fax Number: 2-724-2212
 Email: ctoles@highlandergroup.net

Project Designer
 Name: Action Fence of Michigan
 Address: 4248 Delemere Court
 Royal Oak, MI 48073
 Phone Number: 248-542-3900
 Fax Number: 248-542-6903
 Email: actionfence24@sbcbglobal.net

3. Project Information
 Address/Location of Property: Coraen street
 Birmingham MI 48009
 Name of Development: Eton Street Station II Condo
 Parcel ID #: _____
 Current Use: Condominium
 Area in Acres: _____
 Current Zoning: _____

Name of Historic District site is in, if any: NA
 Date of HDC Approval, if any: NA
 Date of Application for Preliminary Site Plan: _____
 Date of Preliminary Site Plan Approval: _____
 Date of Application for Final Site Plan: _____
 Date of Final Site Plan Approval: _____
 Date of Revised Final Site Plan Approval: _____

4. Attachments

- Warranty Deed with legal description of property
- Authorization from Owner(s) (if applicant is not owner)
- Completed Checklist
- Six (6) folded copies of plans including an itemized list of all changes for which administrative approval is requested, with the changes marked in color on all elevations

5. Details of the Request for Administrative Approval

Installation of vinyl fence

The undersigned states the above information is true and correct, and understands that it is the responsibility of the applicant to advise the Planning Division and / or Building Division of any additional changes to the approved site plan.

Signature of Applicant: C Toles Date: 7-31-20

Application #: PAA 20-0101	Office Use Only Date Received: 8/19/2020	Fee: \$100.00
Date of Approval: 9/16/2020	Date of Denial: N/A	Reviewed by: [Signature]

RECEIVED
 AUG 19 2020
 CITY OF BIRMINGHAM
 COMMUNITY DEVELOPMENT DEPT.

CITY OF BIRMINGHAM
 Date 09/20/2020 10:53:34 AM
 Ref 00173223
 Receipt # 547928
 Amount \$100.00

ADMINISTRATIVE APPROVAL APPLICATION CHECKLIST – PLANNING DIVISION

Applicant: Action Fence of Michigan Date: _____
Address: 4248 Delamere Ct, Royal Oak, MI 48073 Project: Eton street station II
condominiums

All site plans and elevation drawings prepared for administrative approval shall be prepared in accordance with the following specifications and other applicable requirements of the City of Birmingham. If more than one page is used, each page shall be numbered sequentially. All plans must be legible and of sufficient quality to provide for quality reproduction or recording.

Administrative Approval of Design Changes

- _____ 1. Name and address of applicant and proof of ownership;
- _____ 2. Name of Development (if applicable);
- _____ 3. Address of site and legal description of the real estate;
- _____ 4. A separate location map;
- _____ 5. Legend and notes, including a graphic scale, north point, and date;
- _____ 6. A list of all requested design changes;
- _____ 7. Elevation drawings with all requested design changes marked in color;
- _____ 9. A list of all new materials to be used, including size specifications, color and the name of the manufacturer.

Administrative Approval of Site Plan Changes

A full site plan detailing the proposed changes for which administrative approval is requested shall be drawn at a scale no smaller than 1" = 100' (unless the drawing will not fit on one 24" X 36" sheet) and shall include:

- _____ 1. Name and address of applicant and proof of ownership;
- _____ 2. Name of Development (if applicable);
- _____ 3. Address of site and legal description of the real estate;
- _____ 4. Name and address of the land surveyor;
- _____ 5. Legend and notes, including a graphic scale, north point, and date;
- _____ 6. A separate location map;
- _____ 7. A map showing the boundary lines of adjacent land and the existing zoning of the area proposed to be developed as well as the adjacent land;
- _____ 8. A list of all requested changes to the site plan;
- _____ 9. All changes requested marked in color on the site plan and on all elevations of any building(s);
- _____ 10. A chart indicating the dates of approval of the Preliminary Site Plan, Final Site Plan; Revised Final Site Plans, and any dates of approval by the Historic District Committee ("HDC");
- _____ 11. Existing and proposed layout of streets, open space and other basic elements of the plan;
- _____ 12. Existing and proposed easements and their purpose;

- _____ 13. Location of natural streams, regulated drains, 100-year flood plains, floodway, water courses, marshes, wooded areas, isolated preservable trees, wetlands, historic features, existing structures, dry wells, utility lines, fire hydrants and any other significant feature(s) that may influence the design of the development;
- _____ 14. General description of, location of, and types of structures on the site;
- _____ 15. Details of existing or proposed lighting, signage, landscaping, and other pertinent development features;
- _____ 16. Any other information requested in writing by the Planning Division, the Planning Board, or the Building Official deemed important to the development.

PLEASE NOTE: All requests for administrative approval must comply with Ordinance No. _____, which outlines the terms and conditions under which administrative approval may be granted.

PROPOSAL

ACTION FENCE of Michigan Inc.
4248 Delemere Court • Royal Oak, MI 48073
www.actionfenceofmi.com

Proposal No. _____

(248) 542-3900 Fax: (248) 542-6903
Email: actionfence24@sbcglobal.net

PROPOSAL SUBMITTED TO HIGHLANDER GROUP		DAYTIME PHONE 248-724-2212	DATE 5/21/20
STREET 3080 ORCHARD LAKE RD SOUTHEAST		JOB NAME CONSTANCE TOLES	
CITY, STATE AND ZIP KEEGO HARBOR, MI 48320		JOB LOCATION 2002 HAZEL ST; BIRMINGHAM	
ESTIMATOR TOM/RANDY	REFERRED BY ONLINE	EMAIL CTOLESE@HIGHLANDERGROUP.COM	NEW CONSTRUCTION <input checked="" type="checkbox"/>

☒ Landscaping involved?

Install Fence
☐ Level ☒ Follow Grade

Obstruction In Fence Line Above Ground

☒ Owner's responsibility to leave clear access
☐ Contractor's responsibility
☐ No obstructions

Wood Fence
N/A Nice Side Faces
☐ In ☐ Out

☒ Remove Fence **489.00**

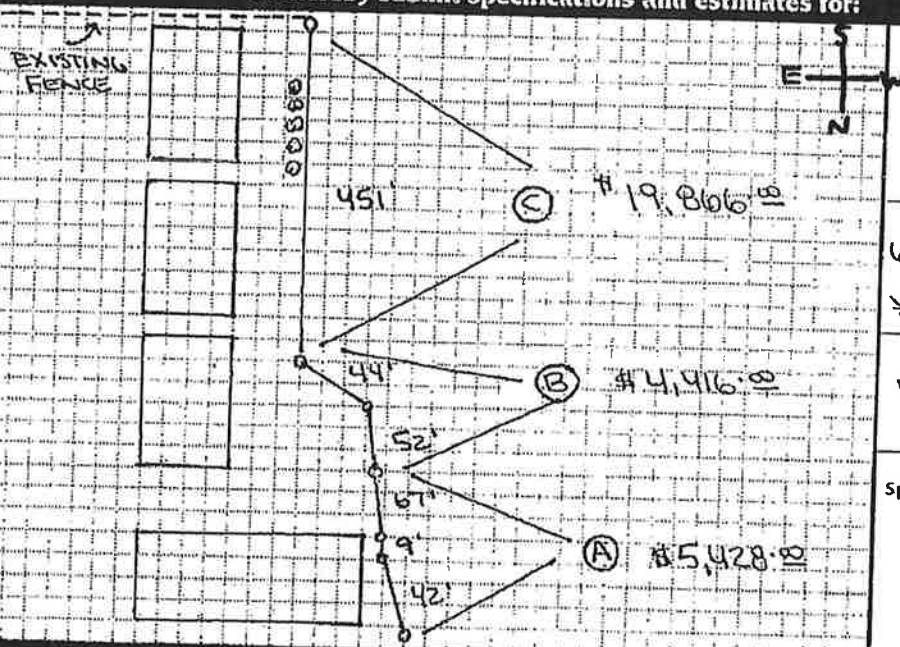
☒ Installer shall call Miss Dig for location of underground utilities. Customer is responsible for locating all other lines.

☒ Additional charges will be made for abnormal digging conditions or removal of dirt off property

☒ Where does excavated dirt go on property?

ADVISE:

We hereby submit specifications and estimates for:



Total Footage

665'

Type of fence

**6" PVC SOLID
* KHAKI ***

Post Specs.

**NEW
ENGLAND
CAPS**

Extra Features or Special Tools Needed

Customer to pull permit if required

I customer, hereby agree to stake the fence(s) depicted above. By this, each end, corner, or gate post shall have a stake at that point. Failure to do so will result in a \$150 return trip charge. Payable upon completion of job. ACTION FENCE WILL NOT IN ANY WAY BE HELD LIABLE FOR INCORRECTLY STAKED LINES. ACTION FENCE HOLDS NO RESPONSIBILITY FOR DAMAGE TO SPRINKLER LINES, GAS BAR-B-QUE LINES, OR ANY OTHER SUCH LINES. IT IS THE RESPONSIBILITY OF THE CUSTOMER TO MARK WHERE SUCH LINES ARE.

☒ INITIAL


All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workman's Compensation Insurance. Fence materials remain property of Action Fence till paid in full.

Final Payment Due Upon Completion

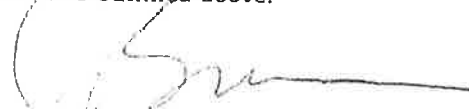
For the Sum of \$	29,710.00
Haul-Away \$	OLD FENCE INC
Building Permit \$	DETERMINED AT ENJO
Sales Tax \$	INC
Total \$	29,710.00
Down Payment \$	14,855.00
Balance Due \$	14,855.00

Acceptance of Proposal

The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.


Signature

X


Customer Signature

X

Date of Acceptance

Eton II

1. **Entire Agreement** - This document states the entire agreement between Owner and Action Fence of Michigan, Inc. (hereinafter "Contractor"). NO REPRESENTATIONS, PROMISES, OR WARRANTIES, EXPRESS OR IMPLIED, HAVE BEEN MADE BY THE CONTRACTOR TO THE OWNERS EXCEPT THOSE STATED IN THIS CONTRACT. Any conversations between the Owner and Contractor cannot change this agreement. Any changes must be in writing and signed by the Owner and Action Fence of Michigan Inc.
2. **Severability** - Whenever possible, each provision of this Agreement will be interpreted in a way that is effective and valid under applicable law. If a provision is prohibited by or invalid under applicable law, it will be ineffective only to the extent of such prohibition or invalidity, without invalidating the remainder of such provision or the remaining provisions of this Agreement.
3. **Setting of Fence** - Contractor will place the fences where owner designates by staking. Each corner, or gate post shall have a stake at that point. Failure of Owner to stake fence will result in a \$150.00 return trip charge.
4. **Property Lines** - Owner shall establish and designate property lines. Owner shall be obligated to pay for work performed as ordered even if the fence lines established and designated by Owner trespass on other property. Owner shall likewise be responsible for any damages sustained by the owner of the trespassed property.
5. **Stockpiling Materials** - Contractor shall be permitted to stockpile materials necessary to the performance of its work, on the purchaser's property adjacent to the site of the work, without cost.
6. **Soil Condition** - Should any unusual soil conditions be encountered any extra costs in the performance of the work occasioned by such conditions shall be paid by the Owner. By way of example, unusual soil conditions include but are not limited to clay, construction debris, and rock.
7. **Hidden Objects** - Contractor assumes no responsibility for removing hidden objects encountered during the performance of the work. Any costs incurred by the removal and disposal of such hidden objects shall be borne by the Owner if removal of the hidden object is necessary.
8. **Vegetation** - Contractor shall not be responsible for damaged trees, bushes, shrubs, oaks, or grass during the course of the work, nor shall contractor be obligated to remove such damaged or destroyed vegetation.
9. **Permits** - Owner agrees to make all necessary arrangements to pull, and pay for any and all permits or assessments if any required for the work. Owner also agrees to make all necessary arrangements for inspections required for this contract. Contractor assumes no responsibility for determining whether the contracted for work will violate any ordinance, zoning regulation, or other law.
10. **Warranty**
 - a. **Term** - THE DURATION OF ANY IMPLIED WARRANTIES FOR DEFECTIVE LABOR AND/OR MATERIALS INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS, IS LIMITED TO THE DURATION OF THIS LIMITED WARRANTY. CONTRACTOR MAKES NO OTHER WARRANTIES EXPRESS OR IMPLIED. Action Fence of Michigan Inc. fully warrants its workmanship and materials pursuant to the job specifications for three years providing job is paid in full. This warranty does not cover wood fence parts that have warped, cracked, split or rotted.
 - b. **Exclusivity** - The parties agree that the sole and exclusive remedy against the contractor for any defective work will be limited to the repair or replacement of defective labor and/or materials provided they promptly notify Contractor in writing of any defect as required herein. This exclusive remedy will not be deemed to have failed its essential purpose if Contractor is willing and able to repair and replace the defective labor and/or materials.

NOTICE OF CANCELLATION

You may cancel this transaction, without any penalty or obligation, within 3 business days from the above date.

If you cancel, any property traded in, any payments made by you under the contract or sale, and any negotiable instrument executed by you will be returned within 10 business days following receipt by the seller of your cancellation notice, and any security interest arising out of the transaction will be cancelled.

If you cancel, you must make available to the seller at your residence, in substantially as good condition as when received, any goods delivered to you under this contract or sale; or you may if you wish, comply with the instructions of the seller regarding the return shipment of the goods at the seller's expense and risk.

If you do make the goods available to the seller and the seller does not pick them up within 20 days of the date of your notice of cancellation, you may retain or dispose of the goods without any further obligation. If you fail to make the goods available to the seller or if you agree to return the goods to the seller and fail to do so, then you remain liable for performance of all obligations under the contract.

To cancel this transaction, mail or deliver a signed and dated copy of this cancellation notice or any other written notice, or send a telegram to Action Fence of Michigan Inc at 4248 Delemere Court, Royal Oak MI 48073.

I hereby cancel this transaction.

- c. **Scope** - The warranty described in this paragraph will be IN LIEU OF any other warranty, express or implied, including but not limited to, any implied warranty of MERCHANTABILITY or fitness for a particular purpose.
- d. **Claim by Owner** - If the owner has a claim under this warranty, the Owner must notify Action Fence of Michigan Inc. in writing within thirty (30) days of the first appearance of the defect.
- e. **Effective date** - Full payment of all amounts due under this contract is an express condition precedent to Contractors duty to perform any remedial work under this warranty.
11. **Dispute Resolution**
 - a. **Notice** - Prior to making a demand for Mediation, or seeking relief through any third party, Owner shall send Contractor a written notice of all issues or concerns they feel need to be addressed.
 - b. **Mediation** - Prior to instituting litigation against Action Fence of Michigan Inc. the owner and contractor shall have first attempted to resolve the dispute by using the mediation services provided by the Oakland Mediation Center, 2267 S. Telegraph Rd., Bloomfield Hills, MI 48302 (248) 338-4280.
12. **Resultant Damages** - Contractor will not be liable for any loss, damage, or injury resulting from delay in delivery or installation of the services and/or goods for any failure to perform which is due to circumstances beyond its control. The maximum liability, if any, of the contractor for all damages, including without limitation, contract damages and damages for injuries to persons or property, whether arising from Purchaser's breach of the agreement, breach of warranty, negligence, strict liability, or other tort, is limited to an amount not to exceed the purchase price of the services and/or goods at issue in the dispute. In no event will the contractor be liable to the purchaser for any incidental, consequential or special damages, including without limitation lost revenues and profits, even if it has been advised of the possibility of such damages.
13. **Time Price Differential** - The Contract price stated in this contract assumes payment when due as stated herein. Any payment not made when due will accrue a time price differential for the privilege of paying in installments in an amount not exceeding 1.5% of the unpaid balance per month. The time price differential under this subsection shall be computed on all amounts unpaid thereunder from month to month, which need not be calendar months.
14. **Attorney Fees** - If Action Fence of Michigan Inc. requires the services of an attorney for enforcement of any provision of this agreement Purchaser agrees to pay Contractor's actual attorney fees.
15. **Notices** - All notices and other communications required or permitted under this agreement will be in writing and will be deemed given when delivered personally or by mail, addressed as follows: If to Action Fence of Michigan Inc; to 4248 Delemere Court, Royal Oak MI 48073. If to Purchaser to the name and address appearing on the front of this contract.
16. **Licensing Disclosures**
 - a. A residential builder or a residential maintenance or alteration contractor is required to be licensed under article 24 of Act 299 of the Public Acts of 1980, as amended, being sections 339.2401 to 339.2412 of the Michigan Compiled Laws. That an electrician is required to be licensed under Act No. 217 of the Public Acts of 1956, as amended, being sections 338.881 to 338.892 of the Michigan Compiled Laws. That a plumber is required to be licensed under Act No. 226 of the Public Acts of 1929, as amended, being sections 338.901 to 338.917 of the Michigan Compiled Laws.
 - b. No license is required for the work described in this contract by the state of Michigan.
17. Action Fence takes no responsibility for any damage to the cement or asphalt during installation of the Fence and or Gate.

(date)

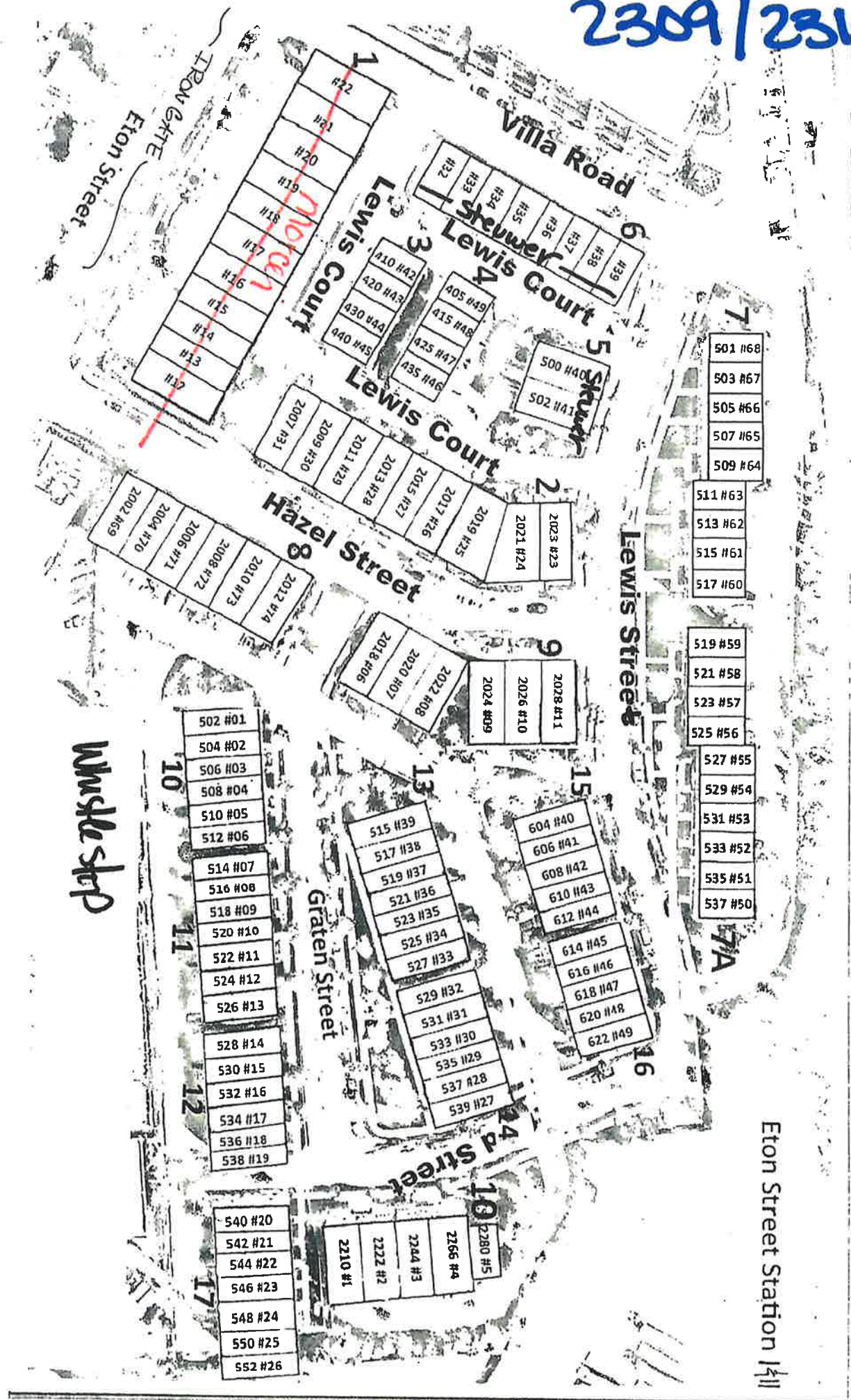
(buyer's signature)

This line for
cancellation only.

(initial here)

INITIAL HERE

2309/2310





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Photo album created with [Web Album Generator](#)



City of Birmingham

A Walkable Community

September 30, 2020

Address Change Notice Group

RE: Address Addition Notification for: 600 LEWIS STREET MAIN BLDG – ETON STREET STATION 2

The property owner of the property referenced above submitted an address addition request to the Community Development Department. The Building Department has approved the request in accordance with City Code Chapter 98, Article V, thereby creating the street number(s) as follows:

Note: City, Street, and Zip for all parcels: Birmingham, MI 48009

PARCEL NUMBER	PRIOR ADDRESS	NEWLY ASSIGNED ADDRESS
08-20-31-206-116		600 LEWIS STREET MAIN BLDG
FOR PERMITTING PURPOSES ONLY		

The Building Department has updated the street number map on file in the Community Development Department in accordance with City Code Chapter 98, Article V, Section 98-118. Please update your records accordingly. Please do not hesitate contacting me if you have any questions concerning this change.

Best Regards,

Bruce R. Johnson
Building Official



Administrative Approval Application Planning Division

Form will not be processed until it is completely filled out.

APPROVED
10/2/2020
PAA20-0097

1. Applicant

Name: Scott Marcus
Address: PO Box 2070
Birmingham, MI 48012
Phone Number: 248-645-2800
Fax Number: _____
Email Address: marcus@remdevelopment.com

2. Property Owner

Name: South Adams Shopping Center Owner LLC
Address: 2550 Telegraph Road, Suite 200
Bloomfield Hills, MI 48300
Phone Number: 248-683-2600
Fax Number: _____
Email Address: l.sludders@prlmgmt.com

3. Applicant's Attorney/Contact Person

Name: Brian R. Townsley
Address: 31500 Northwestern Hwy., Ste. 105
Farmington Hills, MI 48334
Phone Number: 313-410-2700
Fax Number: _____
Email Address: btownsley@towerllc.com

4. Project Designer/Developer

Name: _____
Address: _____
Phone Number: _____
Fax Number: _____
Email Address: _____

5. Project Information

Address/Location of Property: 643 S. Adams Rd
Birmingham, MI 48009
Name of Development: _____
Parcel ID#: _____
Current Use: _____
Area in Acres: _____
Current Zoning: _____

Name of Historic District if any: N/A
Date of HDC Approval, if any: N/A
Date of Application for Preliminary Site Plan: N/A
Date of Preliminary Site Plan Approval: N/A
Date of Application for Final Site Plan: N/A
Date of Final Site Plan Approval: N/A
Date of Revised Final Site Plan Approval: N/A

6. Required Attachments

- Warranty Deed with legal description of property
- Authorization from Owner(s) (if applicant is not owner)
- Completed Checklist
- Material Samples
- Specification sheets for all proposed materials, fixtures, and/or mechanical equipment
- One (1) digital copy of plans
- Two (2) folded copies of plans including an itemized list of all changes for which administrative approval is requested, with the changes marked in color on all elevations
- Photographs of existing conditions on the site where changes are proposed

7. Details of the Request for Administrative Approval

Complete exterior face remodel to 643 S. Adams Rd. Birmingham, MI 48009. Will remodel to resemble OTF Birmingham with glass door and side light.

The undersigned states the above information is true and correct, and understands that it is the responsibility of the applicant to advise the Planning Division and/or Building Division of any additional changes to the approved site plan.

Signature of Applicant: _____

Date: 9/23/20

Application #: PAA 20-0097

Office Use Only
Date Received: 9/23/2020

Fee: \$100.00

Date of Approval: 10/2/2020

Date of Denial: N/A

Reviewed By: _____



CONSENT OF PROPERTY OWNER

I, Matthew B. Lester, OF THE STATE OF Michigan AND
(Name of Property Owner)
COUNTY OF Oakland STATE THE FOLLOWING:

1. That I am the owner of real estate located at 643 S. Adams Rd. Birmingham, MI 48009;
(Address of Affected Property)

2. That I have read and examined the Application for Administrative Approval made to the City of

Birmingham by: Scott Marcus;
(Name of Applicant)

3. That I have no objections to, and consent to the request(s) described in the Application made to the City of
Birmingham.

By providing your e-mail to the City, you agree to receive news notifications from the City. If you do not wish to receive these messages, you may unsubscribe at any time.

Name of Owner (Printed): Matthew B. Lester

Signature of Owner: _____

Date: 9/4/2020



HardiePanel® Vertical Siding Product Description

HardiePanel® vertical siding is factory-primed fiber-cement vertical siding available in a variety of sizes and textures. Examples of these are shown below. Textures include smooth, stucco, Cedarmill® and Sierra 8. HardiePanel vertical siding is 5/16 in. thick and is available in 4x8, 4x9 and 4x10 sizes. Please see your local James Hardie dealer for texture and size availability.

HardiePanel vertical siding is available as a prefinished James Hardie® product with ColorPlus® Technology. The ColorPlus coating is a factory applied, oven baked finish available on a variety of James Hardie siding and trim products. See your local dealer for availability of products, color and accessories.



Stucco



Cedarmill®



Sierra 8



Smooth



Installation of HardiePanel® Vertical Siding

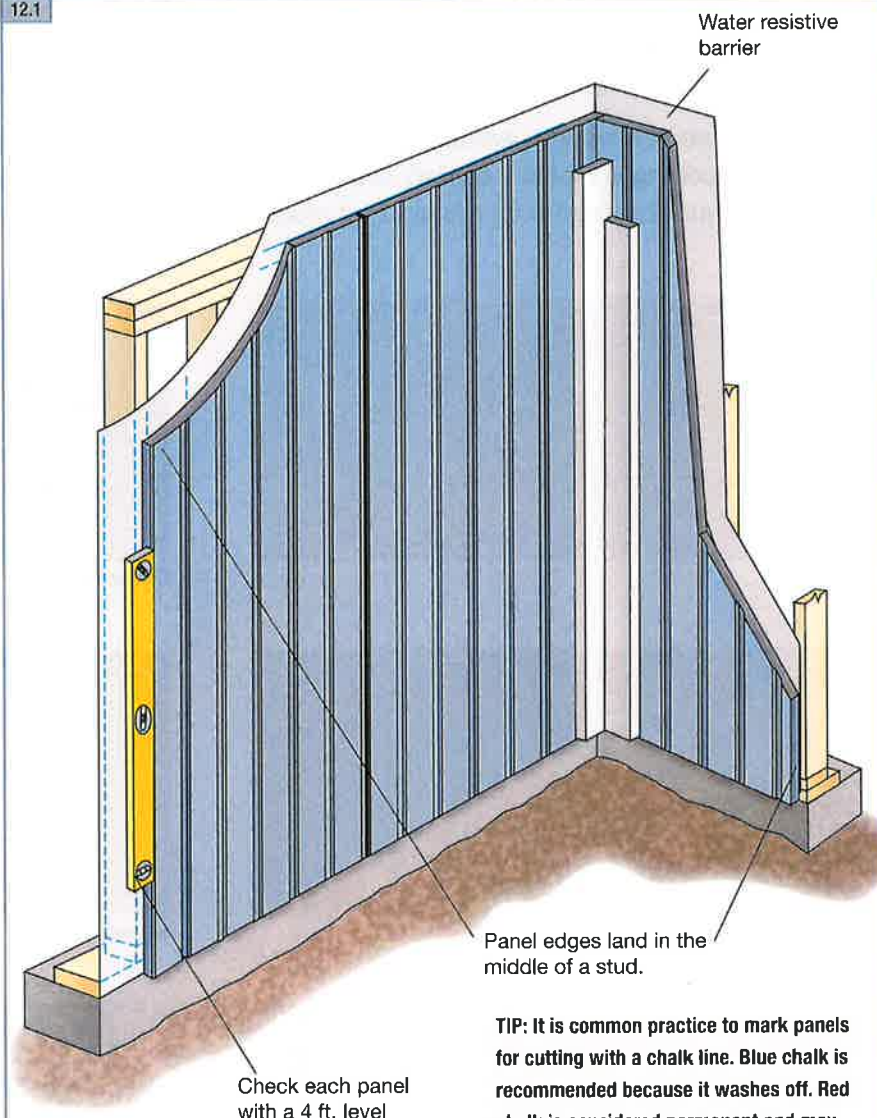
Note: James Hardie has a capillary break requirement when installing HardiePanel on a Multi-Family/Commercial project. Please visit: www.jameshardiepros.com for further information.

GETTING STARTED

First locate the lowest point of the sheathing or sill plate, and begin installation on that wall.

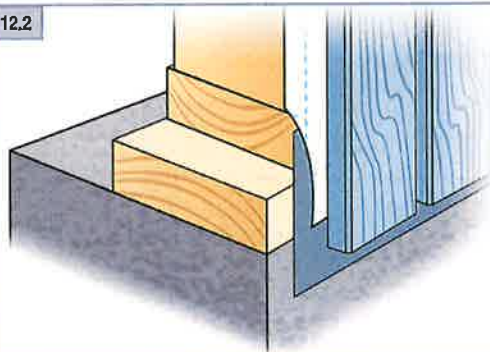
1. Measure up from the sill plate the height of the panels at either end of the wall and snap a straight, level chalk line between the marks as a reference line. That line is for guidance in positioning the top edge of the panels. Check the reference line with a 4 ft. level.
2. Starting on one end and working across the wall, measure and trim the first panel making sure that the edge falls in the middle of a stud.
3. Using the chalk line as a guide along the panel's top edge, carefully position the panel and secure it with suitable fasteners and fastener spacing for the particular application as noted in the ESR-1844.
4. As installation continues, check the vertical edge of each panel with a 4 ft. level.

12.1



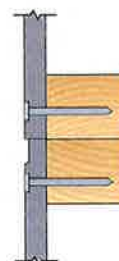
TIP: It is common practice to mark panels for cutting with a chalk line. Blue chalk is recommended because it washes off. Red chalk is considered permanent and may bleed through lighter colored paints.

12.2



TIP: Install flashing over the footing/foundation and extend the panel over the flashing just below the sill plate. Do not extend siding beyond the required grade clearances.

TIP: For Sierra 8 panels, double studs at each panel joint allows fasteners to be placed outside of panel grooves.



VERTICAL JOINT TREATMENT

Treat vertical joints in HardiePanel® vertical siding by using one of the following four methods:

1. Install the panels in moderate contact.
2. Leave an appropriate gap between panels (1/8 in. is the most common), and caulk using a high-quality paintable caulk, that meets ASTM C-834 or C-920 requirements. (Not recommended for ColorPlus)

Panels may be installed first with caulk applied in the joints after installation; or as an option, after the first panel is installed, apply a bead of caulk along the panel edge. When the next panel is installed against the first, the edge embeds in the applied caulk creating a thorough seal between the edges of the panels.

WARNING

The caulk joint method is not recommended for the ColorPlus® products

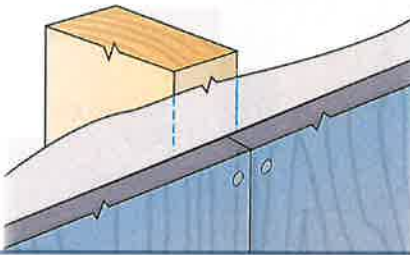
3. Vertical joints may be covered with wood or fiber-cement batten strips. If James Hardie® siding or trim products are ripped and used as batten strips, paint or prime the cut edges. Batten strips should span the vertical joint by at least 3/4 in. on each side.
4. Metal or PVC "H" moldings can be used to join two sections of HardiePanel siding.

TIP: Stainless steel fasteners are recommended when installing James Hardie products.

12.3

1 Moderate contact joint

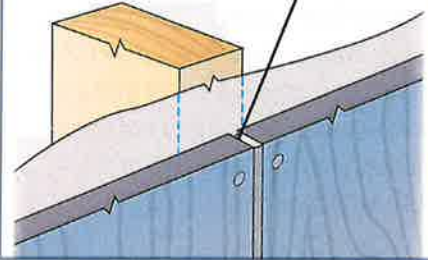
Panels are butted together lightly.



12.4

2 Caulked joint

1/8 in. gap left between panels is filled with caulk. (not applicable with ColorPlus)



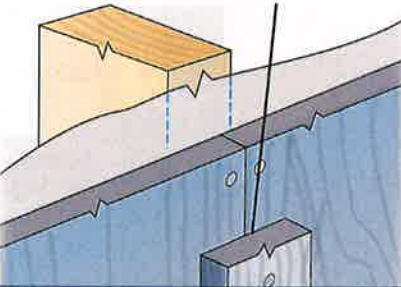
Note: The following outlines the recommended applications for ColorPlus and Primed panels. Not all designs will be suitable for every application:

- Exposed fasteners or battens is the recommended application for ColorPlus products
- Do not use touch-up over fastener heads for smooth ColorPlus products - primed panel recommended
- For ColorPlus panel applications that require fasteners in the field, it is acceptable to use touch-up over fasteners for Cedarmill and Stucco panel only, but correct touch-up application is important. Some colors may show touch-up when applied over fasteners. Trim is recommended to cover joints when appropriate.

12.5

3 Battened joint

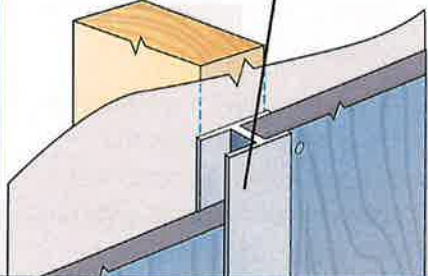
HardieTrim® batten board covers the joint between panels.



12.6

4 H-Channel joint

A manufactured H-channel captures the vertical edges of the panels.



HARDIEPANEL SIDING FASTENER SPECIFICATIONS

The Fastener Specifications table shows fastener options for a variety of different nailing substrates. Please refer to the applicable ESR report online (see back page) to determine which fastener meets your wind load

Fastening Substrate	Approved Fastener	Fastening Types
wood studs	16 in. o.c.	1 4d common .113 in. x .267 in x 1.5 in
		2 6d common .113 in. x .267 in x 2 in
	24 in. o.c.	5 ring shank siding nail .091 in. x .225 in x 1.5 in
		9 roofing nail No. 11ga 1.25 in long
steel studs	16 in. o.c. or 24 in. o.c.	7 screw Ribbed Bugle-Head No. 8 (.323 in x 1 in)
		13 ET&F [AKN100-0150NA] .100 in x .25 in x 1.5 in

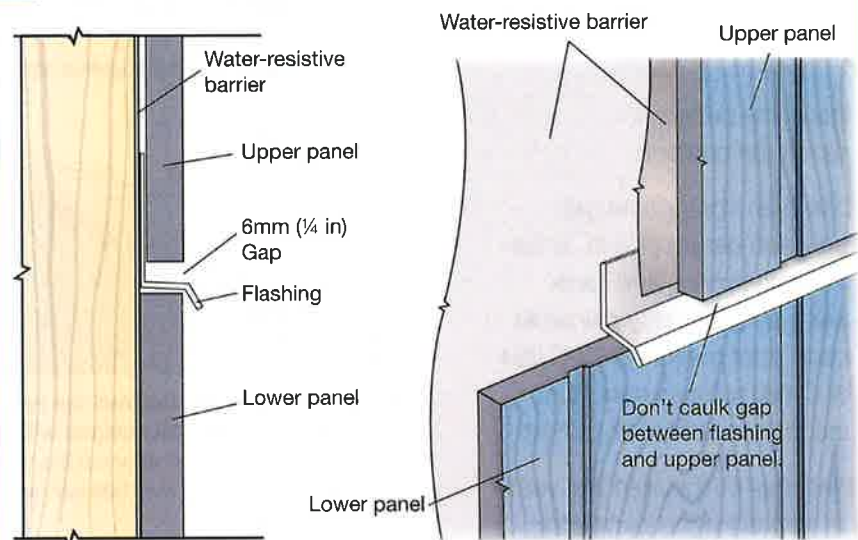
Installation of HardiePanel® Vertical Siding (cont.)

HORIZONTAL JOINT TREATMENT

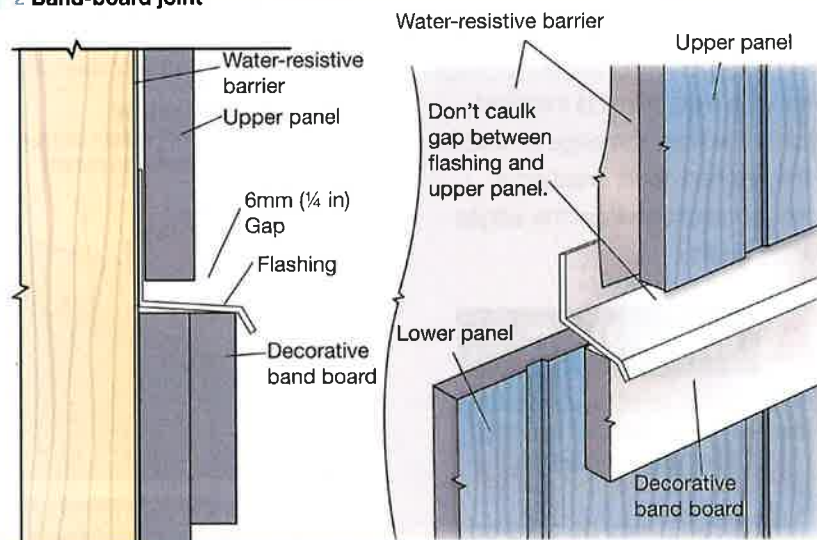
In some applications such as multi-story structures or at gable ends, it may be necessary to stack HardiePanel® siding. The horizontal joints created between panels must be flashed properly to minimize water penetration. Treat horizontal panel joints by using one of the following methods:

1. After installing the lower course of panel siding, install vinyl or coated aluminum "Z" flashing at the top edge of the panel. Make sure that the flashing is sloped away from the wall and does not rest flat on the top edge of the panel. Install the second level or gable panels leaving a ¼ in. minimum gap between the bottom of the panel and the Z flashing. This gap should never be caulked.
2. As an alternative, if a horizontal band board is used at the horizontal joint, flashing must extend over the panel edge and trim attachment. Flashing for both treatments must slip behind the water-resistive barrier.

12.7 1 Simple horizontal joint



12.8 2 Band-board joint



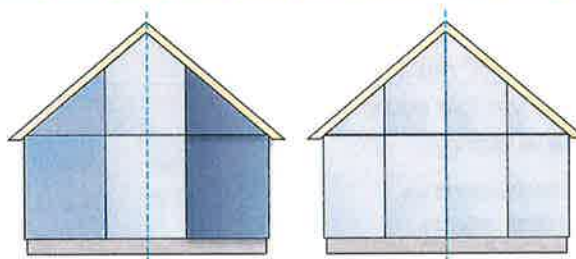
TIP: For best looking installation of HardiePanel Select Sierra 8 siding, carefully align vertical panel grooves at 1st to 2nd story or gable junctures.



WARNING

Do not bridge floors with panel siding. A horizontal joint shall always be created between floors.

TIP: For the most symmetrical looking wall, plan the installation so that a full panel is centered on the wall or gable with equal-size panels cut for each end. As an alternative, plan the installation so that a full panel is located on either side of the wall center, again leaving equal-size panels on each end. These strategies might entail a centered framing layout. Choose the strategy that looks the best and uses material most efficiently.



WINDOWS, DOORS, AND OTHER WALL PENETRATIONS

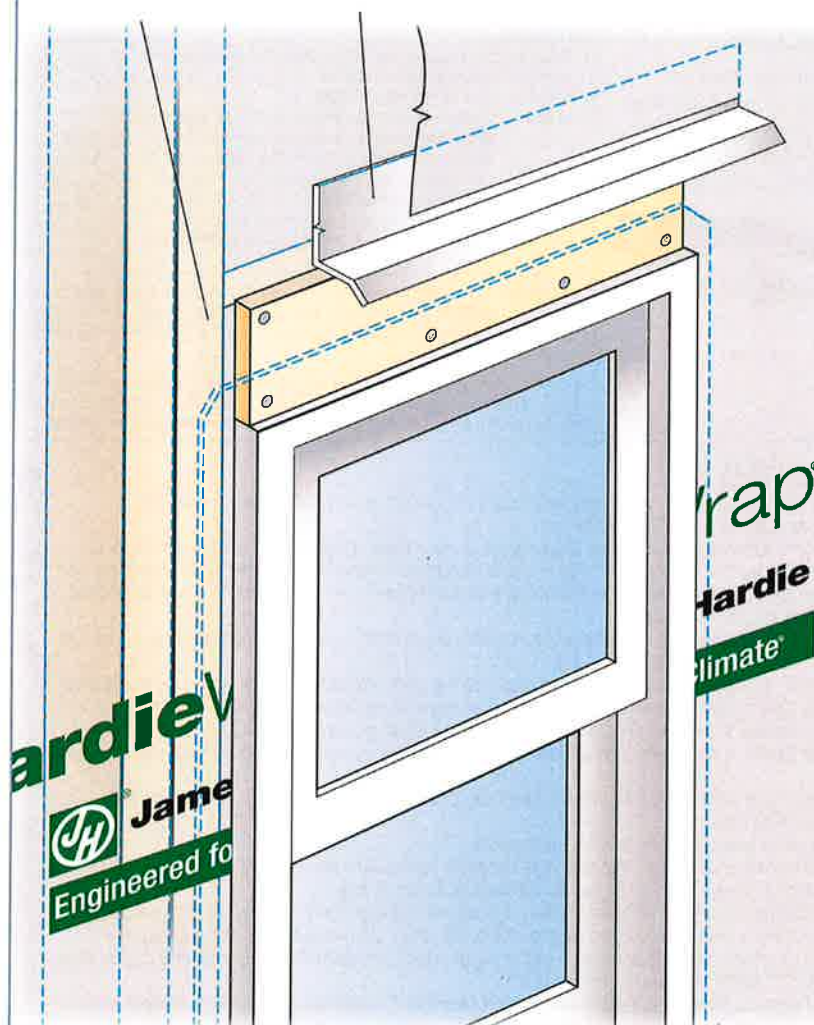
In panel installations, trim is typically overlaid on top of the panel. Special attention needs to be paid to trim flashing at the tops of openings. Below is one method for properly flashing trim in a panel application:

1. After installing the window, cut and install a $\frac{1}{4}$ in thick shim above the window. The shim should be the same width as the trim, and it should be as long as the width of the window.
2. Over the shim, install flashing wide enough to cover thickness of the trim and long enough to cover the trim head piece.
3. Install the panel to the window and around the shim taking care not to damage the flashing and leaving a $\frac{1}{4}$ in gap between the panel and the horizontal part of the flashing.
4. Install the trim around the window, slipping the head piece under the installed flashing.

12.9

- 1 Install $\frac{1}{4}$ in thick shim over the window.

- 2 Install flashing over the shim and under the water-resistive barrier.



12.10

- 3 Cut and fit panel around the shim and flashing. Leave $\frac{1}{4}$ in gap between the flashing and the upper panel.



12.11

- 4 Install window trim under the flashing.





HardiePanel® Vertical Siding

SINGLE FAMILY INSTALLATION REQUIREMENTS

EFFECTIVE SEPTEMBER 2019

IMPORTANT: FAILURE TO FOLLOW JAMES HARDIE WRITTEN INSTALLATION INSTRUCTIONS AND COMPLY WITH APPLICABLE BUILDING CODES MAY VIOLATE LOCAL LAWS, AFFECT BUILDING ENVELOPE PERFORMANCE AND MAY AFFECT WARRANTY COVERAGE. FAILURE TO COMPLY WITH ALL HEALTH AND SAFETY REGULATIONS WHEN CUTTING AND INSTALLING THIS PRODUCT MAY RESULT IN PERSONAL INJURY. BEFORE INSTALLATION, CONFIRM YOU ARE USING THE CORRECT HARDIEZONE® PRODUCT INSTRUCTIONS BY VISITING HARDIEZONE.COM OR CALL 1-866-942-7343 (866-9-HARDIE)

STORAGE & HANDLING:

Store flat and keep dry and covered prior to installation. Installing siding wet or saturated may result in shrinkage at butt joints. Carry planks on edge. Protect edges and corners from breakage. James Hardie is not responsible for damage caused by improper storage and handling of the product.



CUTTING INSTRUCTIONS

OUTDOORS

- Position cutting station so that airflow blows dust away from the user and others near the cutting area.
- Cut using one of the following methods:
 - Best: Circular saw equipped with a HardieBlade® saw blade and attached vacuum dust collection system. Shears (manual, pneumatic or electric) may also be used, not recommended for products thicker than 7/16 in.
 - Better: Circular saw equipped with a dust collection feature (e.g. Roan® saw) and a HardieBlade saw blade.
 - Good: Circular saw equipped with a HardieBlade saw blade.

INDOORS

- DO NOT grind or cut with a power saw indoors. Cut using shears (manual, pneumatic or electric) or the score and snap method, not recommended for products thicker than 7/16 in.
- DO NOT dry sweep dust; use wet dust suppression or vacuum to collect dust.
 - For maximum dust reduction, James Hardie recommends using the "Best" cutting practices. Always follow the equipment manufacturer's instructions for proper operation.
 - For best performance when cutting with a circular saw, James Hardie recommends using HardieBlade® saw blades.
 - Go to jameshardiepros.com for additional cutting and dust control recommendations.

IMPORTANT: The Occupational Safety and Health Administration (OSHA) regulates workplace exposure to silica dust. For construction sites, OSHA has deemed that cutting fiber cement with a circular saw having a blade diameter less than 8 inches and connected to a commercially available dust collection system per manufacturer's instructions results in exposures below the OSHA Permissible Exposure Limit (PEL) for respirable crystalline silica, without the need for additional respiratory protection.

If you are unsure about how to comply with OSHA silica dust regulations, consult a qualified industrial hygienist or safety professional, or contact your James Hardie technical sales representative for assistance. James Hardie makes no representation or warranty that adopting a particular cutting practice will assure your compliance with OSHA rules or other applicable laws and safety requirements.

GENERAL REQUIREMENTS:

- These instructions to be used for single family installations only. **For Commercial / Multi-Family installation requirements go to www.JamesHardieCommercial.com
- HardiePanel® vertical siding can be installed over braced wood or steel studs, 20 gauge (33 mils) minimum to 16 gauge (54 mils) maximum, spaced a maximum of 24 in o.c. or directly to minimum 7/16 in thick OSB sheathing. See General Fastening Requirements. Irregularities in framing and sheathing can mirror through the finished application. Correct irregularities before installing siding.
- Information on installing James Hardie products over non-nailable substrates (ex: gypsum, foam, etc.) can be located in JH Tech Bulletin 19 at www.jameshardie.com
- A water-resistive barrier is required in accordance with local building code requirements. The water-resistive barrier must be appropriately installed with penetration and junction flashing in accordance with local building code requirements. James Hardie will assume no responsibility for water infiltration. James Hardie does manufacture HardieWrap® Weather Barrier, a non-woven non-perforated housewrap¹, which complies with building code requirements.
- Adjacent finished grade must slope away from the building in accordance with local building codes - typically a minimum of 6 in. in the first 10 ft.
- Do not use HardiePanel lap siding in Fascia or Trim applications.
- Do not install James Hardie products, such that they may remain in contact with standing water.
- HardiePanel vertical siding may be installed on flat vertical wall applications only.
- For larger projects, including commercial and multi-family projects, where the span of the wall is significant in length, the designer and/or architect should take into consideration the coefficient of thermal expansion and moisture movement of the product in their design. These values can be found in the Technical Bulletin "Expansion Characteristics of James Hardie® Siding Products" at www.jameshardie.com.
- James Hardie Building Products provides installation /wind load information for buildings with a maximum mean roof height of 85 feet. For information on installations above 60 feet, please contact JH technical support.
- Minimum standard panel design size is 12" x 16". Note: Panels may be notched and cut to size to fit between windows, doors, corners, etc.

INSTALLATION:

Fastener

Position fasteners 3/8 in from panel edges and no closer than 2 in away from corners. Do not nail into corners.

- HardiePanel vertical siding must be joined on stud.
- Double stud may be required to maintain minimum edge nailing distances.
- When screws are used to attach panels to steel studs/furring, the screws shall have wing tips. If screws do not have wing tips, then pre-drilling is required. (Not applicable when using pins) Follow chart below for pre-drilling:

SCREW	PRE-DRILL	HEAD DIAMETER
No. 8	7/32 in	Min 0.323 in
No. 10	1/4 in	Min 0.323 in

Joint Treatment

- Vertical Joints - Install panels in moderate contact (fig. 1), alternatively joints may also be covered with battens, PVC or metal jointers or caulked (Not applicable to ColorPlus® Finish) (fig. 2).
- Horizontal Joints - Provide Z-flashing at all horizontal joints (fig. 3).

Figure 3

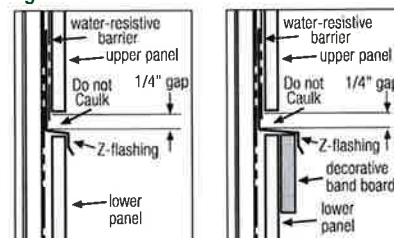


Figure 4



Recommendation: When installing Sierra 8, provide a double stud at panel joints to avoid nailing through grooves.



Figure 1

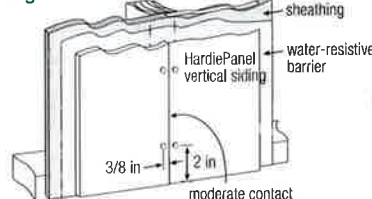
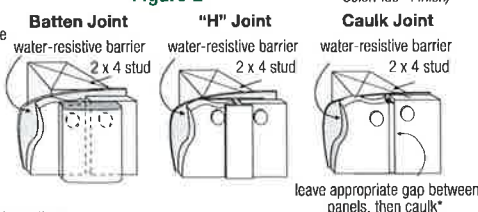


Figure 2



(Caulking Joints is not applicable to ColorPlus® Finish)
Caulk Joint

leave appropriate gap between panels, then caulk*

*Apply caulk in accordance with caulk manufacturer's written application instructions.

**James Hardie recommends installing a rainscreen (an air gap) between the HardiePanel siding and the water-resistive barrier as a best practice.

James Hardie recommends that you consult your design professional if you have questions regarding the use of rainscreen on your single family project.

For additional information on HardieWrap™ Weather Barrier, consult James Hardie at 1-866-4HARDIE or www.hardiewrap.com

SMOOTH | CEDARMILL® | STUCCO | SIERRA 8

Visit jameshardiepros.com for the most recent version.

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CLEARANCE AND FLASHING REQUIREMENTS

Figure 3
Roof to Wall

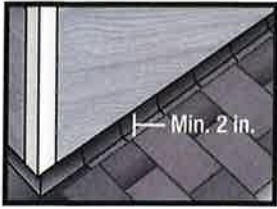


Figure 4
Horizontal Flashing

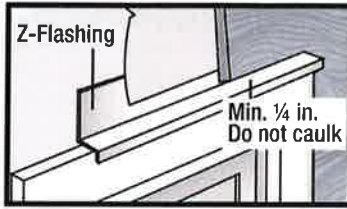


Figure 5
Kickout Flashing

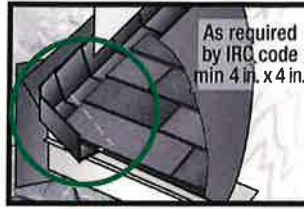


Figure 6
Slabs, Path, Steps to Siding

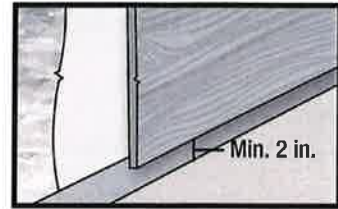


Figure 7
Deck to Wall

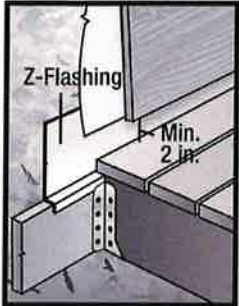


Figure 8
Ground to Siding

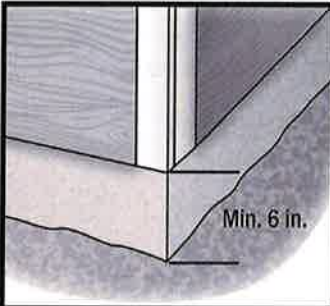


Figure 9
Gutter to Siding



Figure 10
Sheltered Areas

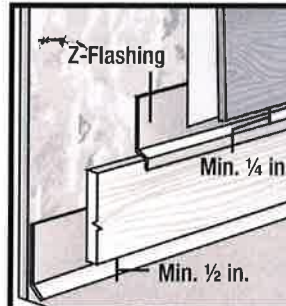


Figure 11
Mortar/Masonry

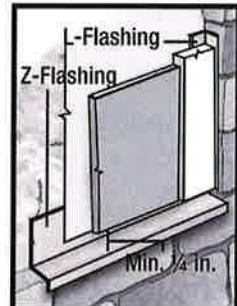


Figure 12
Drip Edge

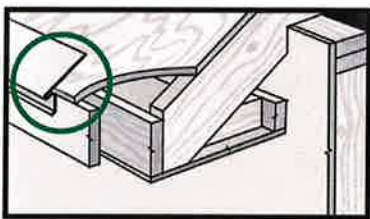


Figure 13
Block Penetration

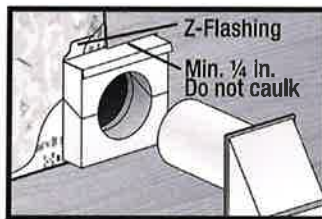
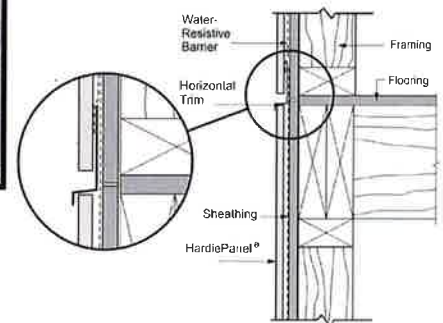


Figure 14
Valley/Shingle Extension



Do not bridge floors with HardiePanel® siding. Horizontal joints should always be created between floors, see below).



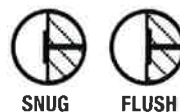
GENERAL FASTENING REQUIREMENTS

Refer to the applicable ESR report online to determine which fastener meets your wind load design criteria.

Fasteners must be corrosion resistant, galvanized, or stainless steel. Electro-galvanized are acceptable but may exhibit premature corrosion. James Hardie recommends the use of quality, hot-dipped galvanized nails. James Hardie is not responsible for the corrosion resistance of fasteners. Stainless steel fasteners are recommended when installing James Hardie® products near the ocean, large bodies of water, or in very humid climates.

Manufacturers of ACQ and CA preservative-treated wood recommend spacer materials or other physical barriers to prevent direct contact of ACQ or CA preservative-treated wood and aluminum products. Fasteners used to attach HardieTrim Tabs to preservative-treated wood shall be of hot dipped zinc-coated galvanized steel or stainless steel and in accordance to 2009 IRC R317.3 or 2009 IBC 2304.9.5

- Consult applicable product evaluation or listing for correct fasteners type and placement to achieve specified design wind loads.
- NOTE: Published wind loads may not be applicable to all areas where Local Building Codes have specific jurisdiction. Consult James Hardie Technical Services if you are unsure of applicable compliance documentation.
- Drive fasteners perpendicular to siding and framing.
- Fastener heads should fit snug against siding (no air space).
- NOTE: Whenever a structural member is present, HardiePanel® should be fastened with even spacing to the structural member. The tables allowing direct to OSB or plywood should only be used when traditional framing is not available.



DO NOT



UNDER DRIVE

DO NOT



OVER DRIVE



SLANT

DO NOT USE



ALUMINUM FASTENERS



CLIPPED HEAD NAILS



STAPLES

IF, THEN

WOOD FRAME



HAMMER FLUSH

STEEL FRAME



REMOVE & REPLACE

IF, THEN ADDITIONAL NAIL

FACE NAIL



COUNTERSINK & FILL



PNEUMATIC FASTENING

James Hardie products can be hand nailed or fastened with a pneumatic tool. Pneumatic fastening is highly recommended. Set air pressure so that the fastener is driven snug with the surface of the siding. A flush mount attachment on the pneumatic tool is recommended. This will help control the depth the nail is driven. If setting the nail depth proves difficult, choose a setting that under drives the nail. (Drive under driven nails snug with a smooth faced hammer - Does not apply for installation to steel framing).

CUT EDGE TREATMENT

Caulk, paint or prime all field cut edges. James Hardie touch-up kits are required to touch-up ColorPlus products.

CAULKING

For best results use an Elastomeric Joint Sealant complying with ASTM C920 Grade NS, Class 25 or higher or a Latex Joint Sealant complying with ASTM C834. Caulking/Sealant must be applied in accordance with the caulking/sealant manufacturer's written instructions. **Note: some caulking manufacturers do not allow "tooling".**

PAINTING

DO NOT use stain, oil/alkyd base paint, or powder coating on James Hardie® products. James Hardie products must be painted within 180 days for primed product and 90 days for unprimed. 100% acrylic topcoats are recommended. Do not paint when wet. For application rates refer to paint manufacturers specifications. Back-rolling is recommended if the siding is sprayed.

PAINTING JAMES HARDIE® SIDING AND TRIM PRODUCTS WITH COLORPLUS® TECHNOLOGY

When repainting ColorPlus products, James Hardie recommends the following regarding surface preparation and topcoat application:

- Ensure the surface is clean, dry, and free of any dust, dirt, or mildew
- Repriming is normally not necessary
- 100% acrylic topcoats are recommended
- DO NOT use stain, oil/alkyd base paint, or powder coating on James Hardie® Products.
- Apply finish coat in accordance with paint manufacturers written instructions regarding coverage, application methods, and application temperature
- DO NOT caulk nail heads when using ColorPlus products, refer to the ColorPlus touch-up section

COLORPLUS® TECHNOLOGY CAULKING, TOUCH-UP & LAMINATE

- Care should be taken when handling and cutting James Hardie ColorPlus® products. During installation use a wet soft cloth or soft brush to gently wipe off any residue or construction dust left on the product, then rinse with a garden hose.
- Touch up nicks, scrapes and nail heads using the ColorPlus® Technology touch-up applicator. Touch-up should be used sparingly. If large areas require touch-up, replace the damaged area with a new piece of siding with ColorPlus® Technology.
- Laminate sheet must be removed immediately after installation of each course.
- Terminate non-factory cut edges into trim where possible, and caulk. Color matched caulks are available from your ColorPlus® product dealer.
- Treat all other non-factory cut edges using the ColorPlus Technology edge coaters, available from your ColorPlus product dealer.

Note: James Hardie does not warrant the usage of third party touch-up or paints used as touch-up on James Hardie ColorPlus products.

Problems with appearance or performance arising from use of third party touch-up paints or paints used as touch-up that are not James Hardie touch-up will not be covered under the James Hardie ColorPlus Limited Finish Warranty.

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SILICA WARNING

DANGER: May cause cancer if dust from product is inhaled. Causes damage to lungs and respiratory system through prolonged or repeated inhalation of dust from product. Refer to the current product Safety Data Sheet before use. The hazard associated with fiber cement arises from crystalline silica present in the dust generated by activities such as cutting, machining, drilling, routing, sawing, crushing, or otherwise abrading fiber cement, and when cleaning up, disposing of or moving the dust. When doing any of these activities in a manner that generates dust you must (1) comply with the OSHA standard for silica dust and/or other applicable law, (2) follow James Hardie cutting instructions to reduce or limit the release of dust; (3) warn others in the area to avoid breathing the dust; (4) when using mechanical saw or high speed cutting tools, work outdoors and use dust collection equipment; and (5) if no other dust controls are available, wear a dust mask or respirator that meets NIOSH requirements (e.g. N-95 dust mask). During clean-up, use a well maintained vacuum and filter appropriate for capturing fine (respirable) dust or use wet clean-up methods - never dry sweep.

WARNING: This product can expose you to chemicals including respirable crystalline silica, which is known to the State of California to cause cancer. For more information go to P65Warnings.ca.gov.

RECOGNITION: In accordance with ICC-ES Evaluation Report ESR-1844, HardiePanel® vertical siding is recognized as a suitable alternate to that specified in the 2006, 2009, 2012 & 2015 International Residential Code for One- and Two-Family Dwellings and the 2006, 2009, 2012 & 2015 International Building Code. HardiePanel vertical siding is also recognized for application in the following: City of Los Angeles Research Report No. 24862, State of Florida Product Approval FL#13223, Miami-Dade County Florida NOA No. 17-0406.06, U.S. Dept. of HUD Materials Release 1263f, Texas Department of Insurance Product Evaluation EC-23, City of New York MEA 223-93-M, and California DSA PA-019. These documents should also be consulted for additional information concerning the suitability of this product for specific applications.

Designed by/for:

Date: 10/1/2020

ARCHITECTURAL GUIDE SPECIFICATION
SECTION 088000 GLAZING

Note to Specifiers:

The specifications below are suggested as desirable inclusions in glass and glazing specifications (section 088000), but are not intended to be complete. An appropriate and qualified Architect or Engineer must verify suitability of a particular product for use in a particular application as well as review final specifications. Oldcastle BuildingEnvelope® assumes no responsibility or liability for the information included or not included in these specifications.

APPROVED GLASS FABRICATOR

Oldcastle BuildingEnvelope®

GLAZING PRODUCTS

Glass Standards

1. USA - Annealed float glass shall comply with ASTM C1036, Type I, Class 1 (clear), Class 2 (tinted), Quality-Q3. Canada - Annealed float glass shall comply with CAN/CGSB-12.3-M, Quality-Glazing.
2. USA - Heat-strengthened float glass shall comply with ASTM C1048, Type I, Class 1 (clear), Class 2 (tinted), Quality Q3, Kind HS.
Canada - Heat-strengthened float glass shall comply with CAN/CGSB-12.9-M, Type 2-Heat-Strengthened Glass, Class A-Float Glass.
3. USA - Tempered float glass shall comply with ASTM C1048, Type I, Class 1 (clear), Class 2 (tinted), Quality Q3, Kind FT. Canada - Tempered float glass shall comply with CAN/CGSB-12.1M, Type 2-Tempered Glass, Class B-Float Glass.
4. USA - Laminated glass to comply with ASTM C1172. Canada - Laminated glass to comply with CAN/CGSB-12.1-M, Type 1-Laminated glass, Class B-Float Glass.
5. USA & Canada - Glass shall be annealed, heat-strengthened or tempered as required by codes, or as required to meet thermal stress and wind loads.

www.obe.com/systemselect

 **Oldcastle BuildingEnvelope®**
A CRH COMPANY

Contact Oldcastle BuildingEnvelope® at 866-OLDCASTLE (653-2278) for samples or additional information. SystemSelect® calculates center of glass data using the Lawrence Berkeley National Laboratory (LBNL) Berkeley Lab WINDOW Calc Engine (CalcEngine) with thermal performance per NFRC 100, 200 & 500. Glass data is from following sources: 1. LBNL International Glazing Database (IGDB) v70.0; 2. Vendor supplied data; 3. LBNL Optics 6; 4. Based on vendor testing, clear acid-etched glass performance data is estimated using regular clear glass of equivalent thickness. Framing system values and glass spacer values determined per LBNL THERM 7.4. Thermal values are in both Imperial (IP) and Metric (SI) units.

Sealed Insulating Glass (IG)
Vision Glass (Vertical)

1. IG units consist of glass lites separated by a dehydrated airspace that is hermetically dual sealed with a primary seal of polyisobutylene (PIB) or Thermoplastic Spacer (TPS) and a secondary seal of silicone or an organic sealant depending on the application.
2. USA - Insulating glass units are certified through the Insulating Glass Certification Council (IGCC) to ASTM E2190. Canada - Insulating Glass units are certified through the Insulating Glass Manufacturers Alliance (IGMA) to either the IGMAC certification program to CAN/CGSB-12.8, or through the IGMA program to ASTM E2190.

IG VISION UNIT PERFORMANCE CHARACTERISTICS

1. Exterior Lite: 6mm (1/4") Guardian Clear
2. Cavity: 1/2" (Air Fill)
3. Interior Lite: 6mm (1/4") Guardian Clear
4. Performance Characteristics

Thermal		Optical	
Winter U-factor (Btu/h·ft ² ·F):	0.47	Visible Light Transmittance:	80%
Winter U-factor (W/m ² ·K):	2.69	Visible Light Reflectance (outside):	15%
Solar Heat Gain Coefficient:	0.74	Visible Light Reflectance (inside):	15%
Shading Coefficient:	0.85	Total Solar Transmittance:	67%
Light to Solar Gain:	1.08	Total Solar Reflectance (outside):	13%
		Ultraviolet Transmittance:	51%



TECHNICAL DATA

FROM

Anemostat Door Products

4958 Stout Dr. #119, San Antonio, TX 78219

PH: 210.662.6300 • FAX: 210.662.2828

e-mail: door@anemostat.com • website: www.anemostat.com

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FOR

GLASS AND GLAZING MATERIALS

DETAIL DRAWING

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TECHNICAL DATA

FROM

Anemostat

Door Products

4958 Stout Dr. #119, San Antonio, TX 78219

PH: 210.662.6300 • FAX: 210.662.2828

e-mail: door@anemostat.com • website: www.anemostat.com

SAFE-Wire®

1/4" (6mm)

WITH SURFACE APPLIED FILM
(Fire & Impact/Safety Rated)



FIRE RATED BY
UNDERWRITERS'
LABORATORIES



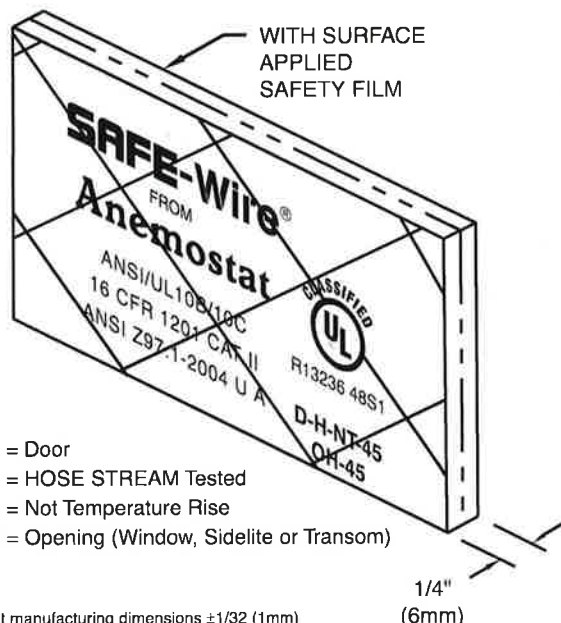
Sound
Transmission
Class

CATEGORY II IMPACT/SAFETY RATED
ANSI Z97.1 2004 U A

DETAIL DRAWING

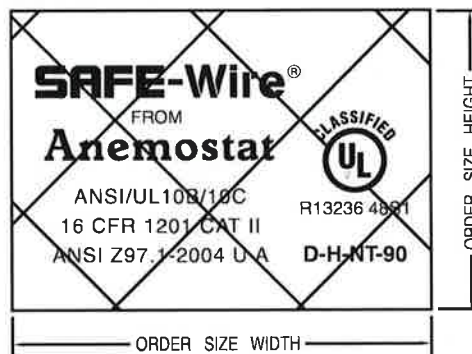
FIRE & SAFETY RATED

MEETS CURRENT IBC CODE REQUIREMENTS

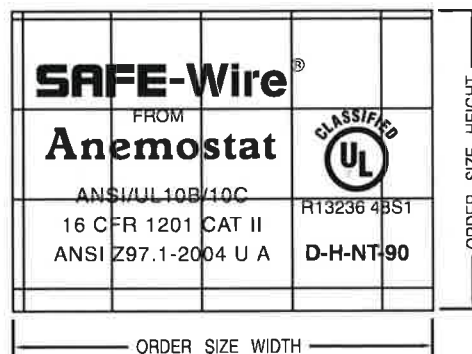


D = Door
H = HOSE STREAM Tested
NT = Not Temperature Rise
OH = Opening (Window, Sidelite or Transom)

Anemostat manufacturing dimensions $\pm 1/32$ (1mm)
Actual dimensions are nominal and may vary
based on component manufacturers tolerances.



3/4" (19mm)
Diamond
Pattern



1/2" (13mm)
Square
(Georgian)
Pattern

STANDARD PRODUCT FEATURES

- MATERIAL:** 1/4" (6mm) Polished wire glass with surface applied safety film.
- FINISH:** Clear with 3/4" x 3/4" (19mm x 19mm) diamond, or 1/2" x 1/2" (13mm x 13mm) square wire pattern.
- INSTALLATION:** SAFE-Wire shall be glazed into the appropriate fire rated framing with GT-18, 1/8" (3.2mm) fire rated glazing tape (supplied loose), to both sides of glass.
- CLASSIFICATION MARKINGS:** Each piece of cut to size 1/4" (6mm) SAFE-Wire glass is permanently etched with the listing mark of U.L., in accordance with standards set forth by N.F.P.A - 80 revised.
- USES:** SAFE-Wire glass is a fire and impact/safety rated glazing material, composed of polished wire glass and a special clear surface applied safety film. It carries a listing for use in INTERIOR Doors, Sidelites, Transoms and Borrowed Lites with fire ratings from 20 minutes to 90 minutes.
- NOTE:** Film is applied to one side of SAFE-Wire only. However, Fire Rating is not dependent on which way film faces in interior applications.
- Occasional process marks or small occlusions may occur due to the filming method employed in manufacturing this product. However, this does not affect the fire/safety performance or general vision area of the glazing and should not be a cause for rejection. Please refer to our Quality Specifications & Inspection Guidelines for Filmed Glazing for additional information (page 3).
- IMPORTANT:** Interpretation of building and fire codes may vary. Consult with the local authority having jurisdiction in your area, to determine appropriate standards.

OPTIONAL FEATURES

- SIZES:** Customized glass sizes to fit most any shape vision frame.

FIRE RATINGS (w/ U.L. classification marking) Positive Pressure

- 20 MINUTE:** Approved listing at 2994 sq.in. (1.932 m²) visible lite.
- 45 MINUTE:** Approved listing at 1296 sq.in. (0.836 m²) visible lite.
- 60/90 MINUTE:** Approved listing at 100 sq.in. (0.065 m²) visible lite.
- NOTE:** Labeled sizes over 1296 sq.in. (0.836 m²) are available providing installation application is appropriately fire rated.

IMPACT / SAFETY RATINGS

- Meets ANSI Z97.1-2004 U A and CPSC 16CFR-1201.
 - Category I - up to 9 sq. ft. (0.837 m²)
 - Category II - over 9 sq. ft. (0.837 m²)

SOUND RATINGS with LoPro-STC

- LoPro-STC with SAFE-Wire:** STC - 38
- TESTED SIZE:** 24" X 36" (610mm x 914mm) CUTOUT / ASSEMBLY
- TESTED IN ACCORDANCE WITH:** ASTM E90-09 and ASTM E2235-04.
STC measurements determined in accordance with ASTM E413-04.
Testing conducted at Western Electro - Acoustic Laboratory, Santa Clarita, CA.
- * Fire Rated**

Job Name & Location	Submitted by

For Most Current Info, Consult Factory or check our website, www.anemostat.com



TECHNICAL DATA

FROM

Anemostat

Door Products

4958 Stout Dr. #119, San Antonio, TX 78219

PH: 210.662.6300 • FAX: 210.662.2828

e-mail: door@anemostat.com • website: www.anemostat.com

WIRE GLASS

1/4" (6mm)

NOT SAFETY RATED



UNDERWRITERS'
LABORATORIES

FIRE
RATINGS



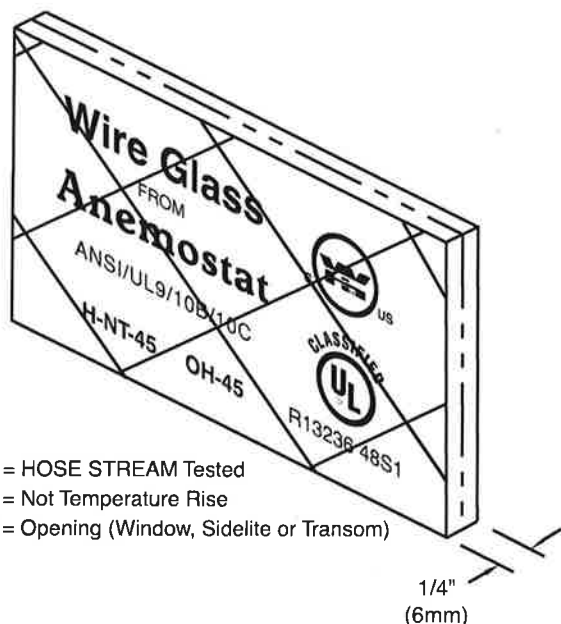
WARNOCK
HERSEY

DETAIL DRAWING

NON

IMPACT / SAFETY RATED PRODUCT

(Does Not Meet CPSC Cat I, Cat II or
ANSI-Z97.1-2004 Impact Standards
required by Current IBC Codes)



H = HOSE STREAM Tested

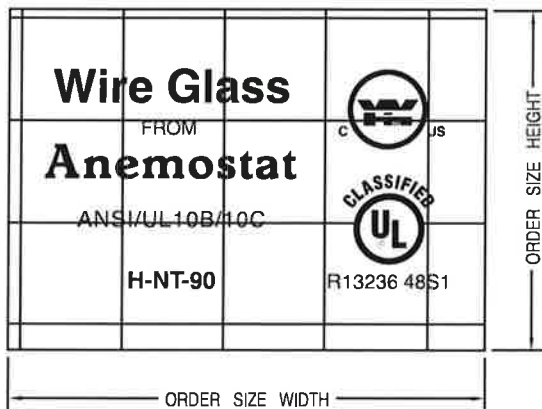
NT = Not Temperature Rise

OH = Opening (Window, Sidelite or Transom)

Anemostat manufacturing dimensions $\pm 1/32$ (1mm)
Actual dimensions are nominal and may vary
based on component manufacturers tolerances.



3/4" (19mm)
Diamond
Pattern



1/2" (13mm)
Square
Pattern

STANDARD PRODUCT FEATURES

- MATERIAL:** 1/4" (6mm) Polished wire glass.
- FINISH:** Clear with 3/4" x 3/4" (19mm x 19mm) diamond wire pattern or
Clear with 1/2" x 1/2" (13mm x 13mm) square wire pattern.
- INSTALLATION:** Wire Glass shall be glazed into the appropriate
fire rated framing with GT-18, 1/8" (3.2mm)
fire rated glazing tape (supplied loose) applied
to both sides of the glass.
- CLASSIFICATION MARKINGS:** Each piece of cut to size
1/4" (6mm) wire glass is permanently
etched with the listing mark of
U.L. and W.H.I., in accordance
with standards set forth by
N.F.P.A. - 80 revised.
- USES:** In applications requiring a fire rating in a transom, wall or
borrowed lite, and no safety rating is required.

OPTIONAL FEATURES

- SIZES:** Customized glass sizes to fit most any shape.

FIRE RATINGS (w/ U.L. & W.H.I. classification markings) Positive Pressure

- 20 MINUTE:** Approved listing at 2994 sq.in. (1.932 m²) visible lite
- 45 MINUTE:** Approved listing at 1296 sq.in. (0.836 m²) visible lite
- 60/90 MINUTE:** Approved listing at 100 sq.in. (0.065 m²) visible lite
- PLEASE NOTE:** On visible lite sizes larger than 1296 sq. in. (0.836 m²) on
20/45 min. and 100 sq. in. (0.065 m²) on 60/90 min., please consult with your
Manufacturer's procedures, for their maximum glass size tested.
- IMPORTANT:** Interpretation of building and fire codes may vary.
Consult with the local authority having jurisdiction in
your area, to determine appropriate standards.

Job Name & Location	Submitted by

For Most Current Info, Consult Factory or check our website, www.anemostat.com



TECHNICAL DATA

FROM

Anemostat Door Products

4958 Stout Dr. #119, San Antonio, TX 78219

PH: 210.662.6300 • FAX: 210.662.2828

e-mail: door@anemostat.com • website: www.anemostat.com

QUALITY SPECIFICATIONS &
INSPECTION STANDARDS
FOR

SAFE-Wire®

and

FireLite® NT

FILMED GLAZING

DETAIL DRAWING

Applied film on flat glass surfaces is not expected to have the same level of visual quality as standard float glass. Inspect glass from a distance of 10ft (3.1m) at a 90 degree viewing angle to the specimen. Inspection should be carried out in natural daylight and not in direct sunlight. The normal vision area does not include the 2" (51mm) wide band around the perimeter of the unit.

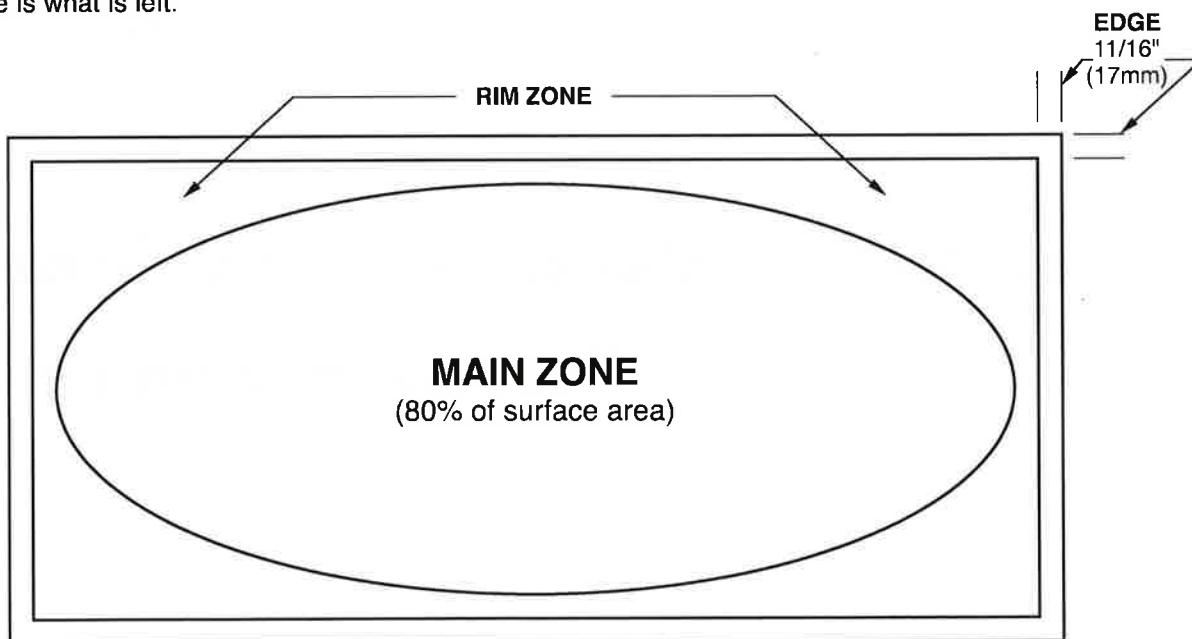
If a pinhole is readily apparent, the following criteria apply:

- Pinholes larger than 1/16" (1.6mm) in diameter are not allowed in 80 percent of the glass area.
- Pinholes larger than 1/8" (3.2mm) are not allowed in the outer 20 percent of the glass area.
- No more than two readily apparent blemishes are allowed in a 3" (76mm) diameter circle and no more than five readily apparent blemishes are allowed in a 12" (305mm) diameter circle.

If a scratch is readily apparent, the following criteria apply:

- Scratches up to 2" (51mm) are allowed in 80 percent of the central glass area.
- Scratches up to 3" (76mm) are allowed in the outer area.
- Concentrated scratches or abraded areas are not allowed.

When inspecting glass, the surface of the glass should be divided into three zones. The edge is the area from the edge to 11/16" (17mm) in. The Main zone is an oval in the center of the glass comprising 80% of the glass surface. The Rim zone is what is left.



When inspecting a piece of glass you should be standing 10 feet (3.1m) from the surface of the glass and at a 90 degree angle perpendicular to the glass surface. (Inspection Guidelines Similar to ASTM Standard C 1376)

Job Name & Location	Submitted by



TECHNICAL DATA

FROM

Anemostat

Door Products

4958 Stout Dr. #119, San Antonio, TX 78219

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CARE AND CLEANING
INSTRUCTIONS
FOR

FireLite®
PRODUCTS
and
SAFE-Wire®

Maintenance and Cleaning Instructions for FireLite® Products

To maintain aesthetics, it is important to clean the glass during and after construction. For routine cleaning, use a soft, clean, grit-free cloth and a mild soap, detergent, or non abrasive window cleaning solution.

Rinse immediately with clean water and remove any excess water from the glass surface with a squeegee. Do not allow any metal or hard parts of the cleaning equipment to contact the glass surface.

Care and Cleaning Instructions for FireLite® NT and SAFE-Wire® (surface applied film) Products

1. Care must be taken not to scratch the film.
2. Do not use bristle brushes or abrasive cleaning materials.
3. Cleaning methods used should be similar to those used on Plexiglas.
4. A soft cloth or clean synthetic sponge is recommended for washing. Do not use the same towel or sponge for wiping sills or frames.
5. A squeegee of 70-85 durometer hardness is recommended for removal of wash water and dirt from the film.
6. Do not apply heavy pressure in any cleaning operation.
7. Do not leave the film wet.
8. Make sure you use a different sponge, cleaning cloth, and water bucket for the outside and the inside of the windows.
9. A little extra detergent for cleaning the film side will make using the squeegee easier.

**Failure to comply with these care and cleaning
guidelines may result in loss of warranty**



TECHNICAL DATA

FROM

Anemostat Door Products

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e-mail: door@anemostat.com • website: www.anemostat.com

FREQUENTLY
ASKED
QUESTIONS

FireLite® PRODUCTS

What is it?

FireLite is a fire-rated glazing material which is different from ordinary window glass in that it is classified as a true ceramic. Because ceramic is resistant to high temperatures, FireLite is ideal for use in fire-rated doors and windows. Since FireLite looks and feels like ordinary glass, we often refer to it as "glass" or "glazing" to avoid confusion.

Why ceramic?

Ceramic is particularly well-suited for fire-rated applications because, unlike ordinary window glass, ceramic has a very low coefficient of thermal expansion. Just like steel and almost any other material used in building construction today, ordinary glass expands dramatically when subjected to the high temperatures inherent in a structural fire. This high level of expansion causes ordinary glass to break at a relatively low temperature of approximately 250° F (121° C). As a point of comparison, FireLite maintains its stability even in extreme conditions where temperatures may exceed 1800° F (982° C).

This low coefficient of expansion is also required for the glass to withstand thermal shock. Thermal shock occurs when hot glass is subjected to the rapid cooling effects of a sprinkler system or fire hose. The "shock" of the rapid change of expansion causes the glass to shatter, sometimes explosively. Because of the pervasive use of automatic sprinklers for fire suppression, and because fire fighters use fire hoses to attack a fire, the ability to withstand thermal shock is critical for fire-rated glazing. Stating that a fire-rated glazing product can withstand thermal shock is to say that it passed what is known as the hose stream test. As a point of clarification, fire-rated glass is required by US building codes and test standards to pass the hose stream test for use in all applications which require a fire rating of 45 minutes or higher. Beware of products that state that they can "withstand thermal shock from sprinklers" but then say that they "have not passed the hose stream test." There is no meaningful middle ground: Either a product does pass the hose stream test or it does not. Remember, if a product does not pass the hose stream test, then it may shatter or explode when hit by water, thus leaving no protection against the transfer of fire and deadly smoke. (Note: in Canada, all fire-rated glazing must pass the hose stream test.)

Does it have a tint?

A common question concerning FireLite is whether or not the product has any perceptible color. Due to the fact that ceramic is comprised of different basic ingredients than those used in the fabrication of ordinary window glass, FireLite appears to have a slight auburn tint, versus the blue or green hue commonly associated with window glass. In the case of window glass, the blue or green color tends to disappear once the glass is installed in a frame and light no longer refracts directly through the edge of the glass lite. This phenomenon is also true of FireLite, which tends to possess a neutral color once installed in a door or window frame.

What's the difference between Premium and Standard Grade FireLite?

"Premium Grade" FireLite is polished on both surfaces so that it is very nearly distortion free. "Standard Grade" FireLite is not polished, and therefore does have some slight, visible distortion. For applications where such distortion could be a concern, we strongly recommend obtaining samples prior to specification.

In 2010, FireLite® improved the color and clarity of the "Standard Grade" product, to the point that it is nearly indistinguishable from the "Premium Grade".

What's the difference between FireLite NT and FireLite Plus?

FireLite NT and FireLite Plus are the members of the FireLite family that meet all safety impact requirements (ANSI Z97.1 2004 U.A., CPSC 16 CFR 1201 Categories I and II) required for glazing applications in or near a door or near the floor. (Learn more about these safety impact test standards here.)

FireLite NT meets all safety impact requirement via a film applied to one side of the glass. FireLite NT is available in both Premium and Standard Grades.

FireLite Plus meets all safety impact requirements by laminating two pieces of FireLite together. FireLite Plus can be made from Premium or Standard Grade FireLite in its make-up. Also note that the laminate for FireLite Plus is a very special, fire-rated laminate. (Typical laminates are oil-based and are highly flammable.)

FireLite NT can be a more economical choice than FireLite Plus when addressing the need for fire-rated and safety impact-rated glazing. However, for high traffic areas or for areas prone to abuse (such as many applications in K-12 schools) FireLite NT (or any filmed product) may not be the best choice due to the exposed film that, while not obviously visible or soft, can be damaged by a errantly pushed cart or "determined" teenager. For such applications, the extra up-front cost of FireLite Plus may be easily justified compared to the cost of maintaining a filmed product over an extended period of time. Indeed, FireLite Plus is a much more common choice than FireLite NT for our customers when addressing glazing applications in K-12 schools.

Note that FireLite cannot be tempered. Tempering is a process of applying heat (typically) to glass, taking advantage of the coefficient of expansion, to strengthen the glass. As discussed above, FireLite's physical properties don't change when heated, hence the need for different methods than tempering for strengthening the glass to meet safety impact standards.

May FireLite be cut?

FireLite can be cut much like ordinary glass. A self-lubricating, sharp cutter (Toyo brand) is recommended. FireLite NT should be scored on the non-film side. The film may then be cut with a razor blade. FireLite Plus must be scored on both sides, the laminate then heated by a torch and cut with a razor blade.

Care should be taken not to cut off the permanently etched FireLite NT or FireLite Plus logo with fire-rating and listing information as this logo certifies to the Authority Having Jurisdiction that this product is acceptable.

May FireLite be sand-blasted or etched?

FireLite may be sand-blasted or lightly etched without voiding the fire-rating or warranty.

What is Obscure FireLite?

Obscure FireLite is FireLite that has been treated at the factory for an obscure finish. The finish resembles that of a shower door.

Does FireLite get thicker according to fire-rating?

No, FireLite does not get thicker as fire-ratings increase. It is always either 3/16" (5mm) thick (FireLite, FireLite NT) or 5/16" (8mm) thick (FireLite Plus). This makes FireLite an excellent choice for replacement of wired glass (typically 1/4" thick) since the nearly identical thicknesses will allow the existing fire-rated frames to be retained.

Other Questions?

Check our Technical Data Sheets, e-mail: door@anemostat.com or call 310-835-7500. We're here to help!



TECHNICAL DATA

FROM

Anemostat Door Products

4958 Stout Dr. #119, San Antonio, TX 78219

PH: 210.662.6300 • FAX: 210.662.2828

e-mail: door@anemostat.com • website: www.anemostat.com

FireLite® Plus

5/16" (8mm) CLEAR

(Fire & Impact/Safety Rated)

FIRE RATED BY



UNDERWRITERS'
LABORATORIES

B.S. or B.S.-EN

British Standard



Sound
Transmission
Class

CATEGORY II IMPACT/SAFETY RATED

ANSI Z97.1 2004 U A

DETAIL DRAWING



PLEASE NOTE: On visible lite sizes larger than 1296 sq. in. (0.836 m²) on 20/45 min. and 100 sq. in. (0.065 m²) on 60/90/180 min., please consult with your Door / Frame Manufacturer's procedures, for their maximum glass size tested.

FireLite® Plus
FROM
Anemostat



R13236 48S1

ANSI/UL9/10B/10C
16 CFR 1201 CAT II
ANSI Z97.1-2004 U A

D-H-NT-90
OH-90

ORDER SIZE HEIGHT

ORDER SIZE WIDTH

NOTE: Although recommended for use with LoPro metal vision frame and 1/32" (1mm), GT-132 Anemostat glazing tape (furnished loose), due to very tight tolerances, care must be taken to not over tighten vision frame screws that can cause cracking of the glass during installation.

Anemostat manufacturing dimensions ±1/32 (1mm)
Actual dimensions are nominal and may vary
based on component manufacturers tolerances.

STANDARD PRODUCT FEATURES

- **MATERIAL:** 2 pieces of PREMIUM or STANDARD FireLite clear ceramic laminated together with an interlayer for an overall 5/16" (8 mm) dimension.
- **INSTALLATION:** FireLite Plus shall be glazed into the appropriate fire-rated framing with 1/32" (1mm) fire-rated glazing tape, (supplied loose) to both sides of glass.
- **CLASSIFICATION MARKINGS:** Each piece of cut to size Clear FireLite Plus is permanently etched with the listing mark of U.L. in accordance with standards set forth by N.F.P.A. - 80 Revised.
- **USES:** FireLite Plus is a fire-rated and impact/safety rated glazing material. It carries listings for use in doors, sidelites, transoms and borrowed lites with fire rated requirements ranging from 20 minutes to 3 hours. May be lightly sandblasted/etched one side without affecting fire rating.

SOUND RATINGS with LoPro-STC

- **LoPro-STC with FireLite Plus:** STC - 38
- **TESTED SIZE:** 24" X 36" (610mm x 914mm) CUTOUT / ASSEMBLY
- **TESTED IN ACCORDANCE WITH:** ASTM E90-09 and ASTM E2235-04. STC measurements determined in accordance with ASTM E413-04. Testing conducted at Western Electro - Acoustic Laboratory, Santa Clarita, CA.
- **Fire Rated**

IMPACT / SAFETY RATINGS

- Meets ANSI Z97.1-2004 U A and CPSC 16CFR-1201 (Cat. I and II)
- **IMPORTANT:** Interpretation of building and fire codes may vary. Consult with the local authority having jurisdiction in your area, to determine appropriate standards.

FIRE RATINGS (w/ U.L. classification markings) Positive Pressure

- Listed and labeled by Underwriters Laboratories, Inc.® Test report numbers for labeled fire-rated assemblies include: UL File No. R13377. All above tests performed in accordance with ASTM E-152, ASTM E-163, NFPA 252, NFPA 257, UL-9, UL-10B, UL-10C, UBC 43.2, UBC 43.4, UBC 7.2-97, UBC 7.4-97, CSFM 43.7, CAN4 S-104 and CAN4 S-106.

DOORS

- **20/45/60 MINUTE:** Approved listing at 3204 sq. in. (2.067 m²) visible lite. max. width 36" (914mm), max. height 89" (2261mm).
- **90* MINUTE:** Approved listing at 2034 sq. in. (1.31 m²) visible lite. max. width 36" (914mm), max. height 56 1/2" (1435mm).
- **60**/90** MINUTE:** Approved listing at 100 sq. in. (0.065 m²) visible lite. max. width 12" (305mm), max. height 33" (838mm).
- **3 HOUR:** Approved listing at 100 sq. in. (0.065 m²) visible lite. max. width 12" (305mm), max. height 33" (838mm).

*Non Temperature Rise Door ** Temperature Rise Door

OTHER THAN DOORS (TRANSOMS, SIDELITES and BORROWED LITES)

- **20/45 MINUTE:** Approved listing at 3325 sq. in. (2.145 m²) visible lite. max. width 95" (2413mm), max. height 95" (2413mm).
- **60 MINUTE:** Approved listing at 3325 sq. in. (2.145 m²) visible lite. max. width 95" (2413mm), max. height 95" (2413mm).
- **90 MINUTE:** Approved listing at 2627 sq. in. (1.695 m²) visible lite. max. width 56-1/2" (1435mm), max. height 56-1/2" (1435mm).

BS 476.22 - British

Timber Doors - 30 / 60 min.

BS-EN-1634 - British

Steel Doors - 240 min.

Job Name & Location

Submitted by



TECHNICAL DATA

FROM

Anemostat Door Products

4958 Stout Dr. #119, San Antonio, TX 78219

PH: 210.662.6300 • FAX: 210.662.2828

e-mail: door@anemostat.com • website: www.anemostat.com

FireLite® NT 3/16" (5mm) CLEAR

WITH SAFETY FILM
(Fire & Impact/Safety Rated)

FIRE RATED BY
UL UNDERWRITERS'
LABORATORIES
B.S. or B.S.-EN
British Standard



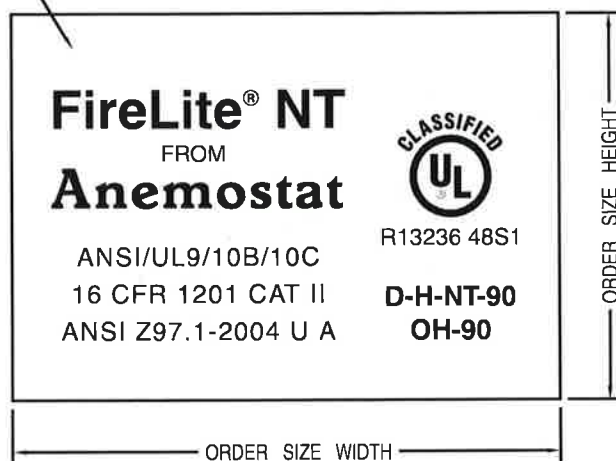
CATEGORY II IMPACT/SAFETY RATED
ANSI Z97.1 2004 U A

DETAIL DRAWING



PLEASE NOTE: On visible lite sizes larger than 1296 sq. in. (0.836 m²) on 20/45 min. and 100 sq. in. (0.065 m²) on 60/90/180 min., please consult with your Door / Frame Manufacturer's procedures, for their maximum glass size tested.

WITH SURFACE APPLIED SAFETY FILM



D = Door
H = HOSE STREAM Tested
NT = Not Temperature Rise
OH = Opening (Window, Sidelite or Transom)

Anemostat manufacturing dimensions $\pm 1/32$ (1mm)
Actual dimensions are nominal and may vary based on component manufacturers tolerances.

STANDARD PRODUCT FEATURES

- MATERIAL:** 3/16" (5 mm overall) Clear Glass Ceramic with Surface-Applied Safety Film.
- FINISH:** Clear available in:
STANDARD (non-polished surfaces)
PREMIUM - (polished surfaces)
OBSCURE (patterned) available in standard only.
- APPROX. VISIBLE TRANSMISSION:** 88%
- INSTALLATION:** FireLite NT shall be glazed into the appropriate fire-rated framing with the film side to the building interior. Installation shall be with 1/8" (3.2mm) fire-rated glazing tape, (supplied loose) to both sides of glass.
- CLASSIFICATION MARKINGS:** Each piece of cut to size Clear FireLite NT is permanently etched with the listing mark of U.L. in accordance with standards set forth by N.F.P.A. - 80 Revised.
- USES:** FireLite NT carries listings for use in door, sidelites, transoms and borrowed lites with fire rating requirements ranging from 20 minutes to 3 hours. May be lightly sandblasted/etched one side without affecting fire rating.
- NOTE:** Film is applied to one side of FireLite NT only. However, Fire Rating is not dependent on which way film faces in interior applications
- Occasional process marks or small occlusions may occur due to the filming method employed in manufacturing this product. However, this does not affect the fire/safety performance or general vision area of the glazing and should not be a cause for rejection. Please refer to our Quality Specifications & Inspection Guidelines for Filmed Glazing for additional information (page 3).

IMPACT / SAFETY RATINGS

- Meet ANSI Z97.1-2004 U A and CPSC 16CFR-1201 (Cat. I and II).
- IMPORTANT:** Interpretation of building and fire codes may vary. Consult with the local authority having jurisdiction in your area, to determine appropriate standards.

FIRE RATINGS (w/ U.L. classification markings) Positive Pressure

- Listed by Underwriters Laboratories, Inc.® Test report number for labeled fire-rated assemblies is: UL File No. R13377. Tests performed in accordance with ASTM E-152, ASTM E-163, NFPA 252, UL-9, UL-10B, UL-10C, UBC 43.2, UBC 43.4, UBC 7.2-97, UBC 7.4-97, CSFM 43.7, CAN4 S-104 and CAN4 S-106.

DOORS

- 20/45/60 MINUTE:** Approved listing at 3204 sq. in. (2.067 m²) visible lite. max. width 36" (914mm), max. height 89" (2261mm).
- 90* MINUTE:** Approved listing at 2034 sq. in. (1.312 m²) visible lite. max. width 36" (914mm), max. height 56 1/2" (1435mm).
- 60**/90** MINUTE:** Approved listing at 100 sq. in. (0.065 m²) visible lite. max. width 12" (305mm), max. height 33" (838mm).
- 3 HOUR:** Approved listing at 100 sq. in. (0.065 m²) visible lite. max. width 12" (305mm), max. height 33" (838mm).

*Non Temperature Rise Door. ** Temperature Rise Door

OTHER THAN DOORS (TRANSOMS, SIDELITES AND BORROWED LITES)

- 20/45 MINUTE:** Approved listing at 3325 sq. in. (2.145 m²) visible lite. max. width 95" (2413mm), max. height 95" (2413mm).
- 60 MINUTE:** Approved listing at 3325 sq. in. (2.145 m²) visible lite. max. width 95" (2413mm), max. height 95" (2413mm).
- 90 MINUTE:** Approved listing at 2627 sq. in. (1.694 m²) visible lite. max. width 56-1/2" (1435mm), max. height 56-1/2" (1435mm).

BS 476.22 - British

Timber Doors - 30 / 60 min.

BS-EN-1634 - British

Steel Doors - 240 min.

SOUND RATINGS with LoPro-STC

- LoPro-STC with FireLite NT (Fire Rated):** STC - 35
- TESTED SIZE:** 24" X 36" (610mm x 914mm) CUTOFF / ASSEMBLY
- TESTED IN ACCORDANCE WITH:** ASTM E90-09 and ASTM E2235-04. STC measurements determined in accordance with ASTM E413-04. Testing conducted at Western Electro - Acoustic Laboratory, Santa Clarita, CA.

Job Name & Location	Submitted by

For Most Current Info, Consult Factory or check our website, www.anemostat.com



TECHNICAL DATA

FROM

Anemostat Door Products

4958 Stout Dr. #119, San Antonio, TX 78219

PH: 210.662.6300 • FAX: 210.662.2828

e-mail: door@anemostat.com • website: www.anemostat.com

FireLite® IGU

15/16" (24mm) OR 1" (25mm)
INSULATED

(Fire & Impact/Safety Rated)



FIRE RATED BY

UNDERWRITERS'
LABORATORIES



CATEGORY II IMPACT/SAFETY RATED
ANSI Z97.1 2004 U A

DETAIL DRAWING

PLEASE NOTE: On visible lite sizes larger than 1296 sq. in. (0.836 m²) on 20/45 min. and 100 sq. in. (0.065 m²) on 60/90/180 min., please consult with your Door / Frame Manufacturer's procedures, for their maximum glass size tested.



3/16" (5 mm) FIRELITE NT
(Film is on Outside)

1/2" (13 mm) AIRSPACE

1/4" (6 mm) TEMPERED

15/16" (24 mm) OVERALL

**(CAT. II)
IMPACT
SAFETY
RATED**

OR

5/16" (8 mm) FIRELITE PLUS

7/16" (11 mm) AIRSPACE

1/4" (6 mm) TEMPERED GLASS

1" (25 mm) OVERALL

**(CAT. II)
IMPACT
SAFETY
RATED**

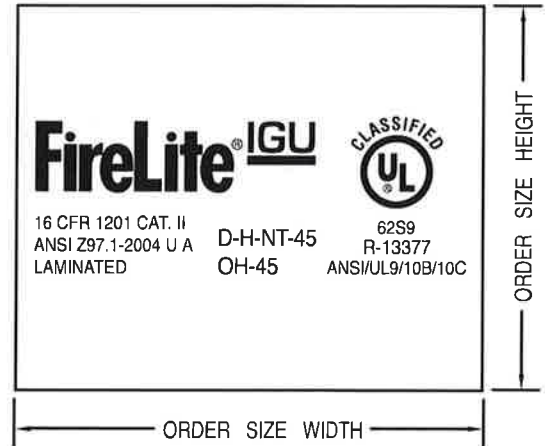
1/4" (6 mm)

3/16" (5 mm)

OR
5/16" (8 mm)

15/16" (24 mm) - with FIRELITE NT
1" (25 mm) - with FIRELITE PLUS

±8% Tolerance



D = Door

H = HOSE STREAM Tested

NT = Not Temperature Rise

OH = Opening (Window, Sidelite or Transom)

STANDARD PRODUCT FEATURES

- MATERIAL:** 3/16" (5 mm) FireLite NT / 1/2" (13 mm) Airspace / 1/4" (6 mm) Tempered or 5/16" (8 mm) FireLite Plus / 7/16" (11 mm) Airspace / 1/4" (6 mm) Tempered Glass.
- USES:** For exterior application where energy codes require an insulated unit and for interior applications for special needs (such as sound reduction).
- INSTALLATION:** FireLite IGU shall be glazed into the appropriate fire-rated framing with the film side to the building interior. Installation shall be with 1/16" (1.6mm) fire-rated glazing tape, (supplied loose) to both sides of glass.

SOUND RATINGS with LoPro-STC

- LoPro-STC with FireLite Plus IGU:** STC - 42
- TESTED SIZE:** 24" X 36" (610 X 914mm) CUTOUT / ASSEMBLY
- TESTED IN ACCORDANCE WITH:** ASTM E90-09 and ASTM E2235-04. STC measurements determined in accordance with ASTM E413-04. Testing conducted at Western Electro - Acoustic Laboratory, Santa Clarita, CA.
- * Fire Rated**
- IMPORTANT:** Interpretation of building fire codes may vary. Consult with the local authority having jurisdiction in your area, to determine appropriate standards.

OPTIONAL FEATURES

Available incorporating a variety of Glass Products:

- Tinted.
- Art Glass.
- May be lightly sandblasted or etched on one side without affecting fire rating.
- Reflective.
- One-Way Mirror.
- Low E.
- Obscure.

FIRE RATINGS (with U.L. classification markings) Positive Pressure

DOORS

- 20/45/60* MINUTE:** Approved listing at 3204 sq. in. (2.067 m²) visible lite. max. width 36" (914mm), max. height 89" (2261mm)
- 90* MINUTE:** Approved listing at 2034 sq. in. (1.31 m²) visible lite. max. width 36" (914mm), max. height 56 1/2" (1435mm)
- 60**/90**MINUTE:** Approved listing at 100 sq. in. (0.065 m²) visible lite. max. width 12" (305mm), max. height 33" (838mm)
- 3 HOUR:** Approved listing at 100 sq. in. (0.065 m²) visible lite. max. width 12" (305mm), max. height 33" (838mm)

*Non Temperature Rise Door ** Temperature Rise Door

OTHER THAN DOORS (TRANSOMS, SIDELITES and BORROWED LITES)

- 20/45/60 MINUTE:** Approved listing at 3325 sq. in. (2.145 m²) visible lite. max. width 95" (2413mm), max. height 95" (2413mm)
- 90 MINUTE:** Approved listing at 2627 sq. in. (1.695 m²) visible lite. max. width 56 1/2" (1435mm), max. height 56 1/2" (1435mm)

IMPACT / SAFETY RATINGS

- Meets ANSI Z97.1-2004 U A and CPSC 16CFR1201 (Cat. I and II)

Job Name & Location	Submitted by



TECHNICAL DATA

FROM

Anemostat Door Products

4958 Stout Dr. #119, San Antonio, TX 78219

PH: 210.662.6300 • FAX: 210.662.2828

e-mail: door@anemostat.com • website: www.anemostat.com

FireLite® 3/16" (5mm) CLEAR



FIRE RATED BY
UNDERWRITERS'
LABORATORIES

B.S. or B.S.-EN
British Standard

DETAIL DRAWING

NON

IMPACT / SAFETY RATED PRODUCT

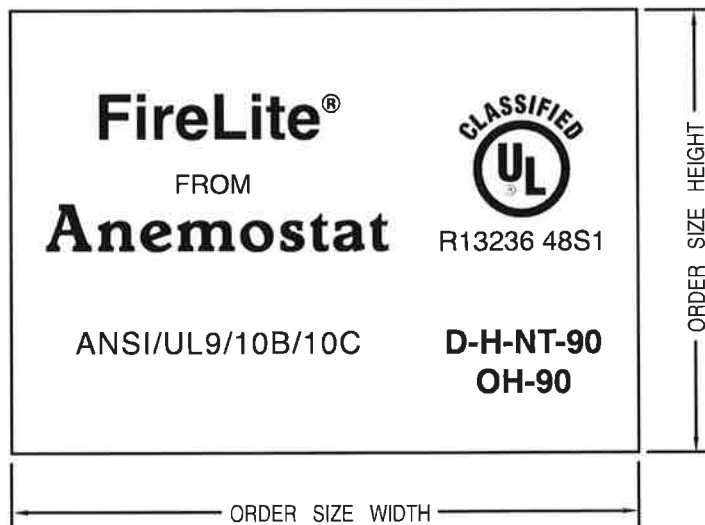
(Does Not Meet CPSC Cat I, Cat II or ANSI-Z97.1-2004
Impact Standards required by IBC 2003, 2006, and 2009)



D = Door
H = HOSE STREAM Tested
NT = Not Temperature Rise
OH = Opening (Window, Sidelite or Transom)

Anemostat manufacturing dimensions $\pm 1/32$ (1mm)
Actual dimensions are nominal and may vary
based on component manufacturers tolerances.

3/16"
(5mm)



NOTE: FireLite is not an impact safety-rated product and should
not be specified as such. However we can offer FireLite Plus
and FireLite NT which both carry fire and impact safety ratings.

STANDARD PRODUCT FEATURES

- MATERIAL:** 3/16" (5 mm) clear FireLite glass (no wire).
- FINISH:** Clear available in:
 - STANDARD (non-polished surfaces)
 - PREMIUM - (polished surfaces)
 - OBSCURE (patterned)
- INSTALLATION:** FireLite shall be glazed into the appropriate fire-rated framing with 1/8" (3.2mm) fire-rated glazing tape, (supplied loose) to both sides of glass.
- CLASSIFICATION MARKINGS:** Each piece of cut to size Clear FireLite is permanently etched with the listing mark of U.L. and W.H.I. in accordance with standards set forth by N.F.P.A. - 80 revised.
- USES:** In applications requiring a fire rating in transoms, walls or borrowed lites and where clear glass clarity is desired, and no safety rating is required. May be lightly sandblasted/etched one side without affecting fire rating.
- IMPORTANT:** Interpretation of building and fire codes may vary. Consult with the local authority having jurisdiction in your area, to determine appropriate standards.

OPTIONAL FEATURES

- SIZES:** Customized glass sizes to fit most any shape.

FIRE RATINGS (w/ U.L. classification markings) Positive Pressure

- Listed by Underwriters Laboratories, Inc., and Warnock Hersey International Inc., Firelite was tested to fire-rating standards such as ASTM E-163, CAN4 S-104, CAN4 S-106, CSFM 43.7, NFPA 80 NFPA 257, UBC 43.2, UBC 43.4, UBC 7.2-97, UBC 7.4-97, UL-9, UL-10B AND UL-10C.

OTHER THAN DOORS (TRANSOMS, SIDELITES and BORROWED LITES)

- 20/45/60 MINUTE:** Approved listing at 3325 sq. in. (2.15 m²) visible lite.
max. width 95" (2413mm), max. height 95" (2413mm).
- 90 MINUTE:** Approved listing at 2627 sq. in. (1.695 m²) visible lite.
max. width 56 1/2" (1435mm), max. height 56 1/2" (1435mm).

BS 476.22 - British

Timber Doors - 30 / 60 min.

BS-EN-1634 - British

Steel Doors - 240 min.

- PLEASE NOTE:** On visible lite sizes larger than 1296 sq. in. (0.836 m²) on 20/45 min. and 100 sq. in. (0.065 m²) on 60/90/180 min., please consult with your Frame Manufacturer's procedures, for their maximum glass size tested.

Job Name & Location	Submitted by



TECHNICAL DATA

FROM

Anemostat

Door Products

4958 Stout Dr. #119, San Antonio, TX 78219

PH: 210.662.6300 • FAX: 210.662.2828

e-mail: door@anemostat.com • website: www.anemostat.com

FireSAFE-20™

FireSAFE-30™

British Version

1/4" (6mm) CLEAR

(Fire & Impact/Safety Rated)

FIRE
RATED
BY:



B.S.-476.22
British Standard

IMPACT/
SAFETY
RATED:

CATEGORY
II

ANSI
Z97.1-2004 U A

DETAIL DRAWING



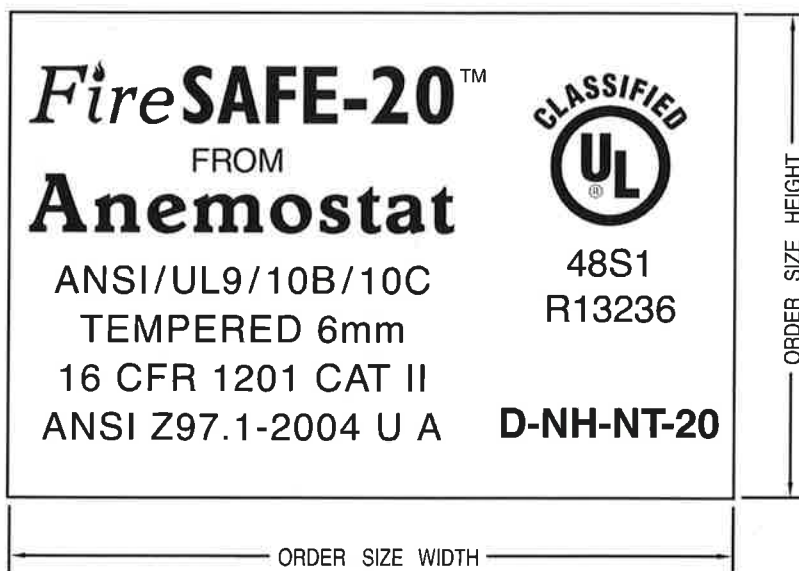
D = Door

NH = NOT HOSE STREAM Tested

NT = Not Temperature Rise

Anemostat manufacturing dimensions $\pm 1/32$ (1mm)
Actual dimensions are nominal and may vary
based on component manufacturers tolerances.

1/4"
(6 mm)



STANDARD PRODUCT FEATURES

- MATERIAL:** 1/4" (6 mm) Specially Tempered Clear.
- APPROX. VISIBLE TRANSMISSION:** 89%
- INSTALLATION:** FireSAFE-20 shall be glazed into the appropriate fire rated framing with GT-18, 1/8" (3.2mm) fire rated glazing tape (supplied loose), to both sides of glass.
- CLASSIFICATION MARKINGS:** Each piece of FireSAFE-20/30 shall be labeled with the appropriate marking on sizes up to 2584 sq.in. (1.67 m²)
- USES:** FireSAFE-20/30 is a 1/4" (6mm) fire-rated and impact safety-rated glazing material. It carries listings for use in doors with a fire rating requirement of 20 minutes (30 minutes - British Standard). (WITHOUT HOSE STREAM TEST).
May be lightly sandblasted / etched or beveled on one side without affecting fire rating
- IMPORTANT:** Interpretation of building and fire codes may vary. Consult with the local authority having jurisdiction in your area, to determine appropriate standards.

FIRE RATINGS (with U.L. classification markings) Positive Pressure

- Listed and labeled by Underwriters Laboratories, Inc.® Test report numbers for labeled 20 minute fire-rated assemblies include: UL File No. R13236. All above tests performed in accordance with ASTM E-2074, ASTM E-2010, CSFM 43.7, NFPA 252, UBC 43.2, UBC 7.2-97, UBC 7.4-97, UL-9, UL-10B and UL-10C.

DOORS

- 20 MINUTE:** Approved listing at 2584 sq. in. (1.67 m²) visible lite.
max. width 34" (864mm), max. height 76" (1930mm).
(WITHOUT HOSE STREAM)

BS 476.22 Timber and Steel Doors - 30 min.
British Standard

- FireSAFE-30 requires Ceramic Glazing Tape (CGT)

IMPACT / SAFETY RATINGS

- Meets ANSI Z97.1-2004 U A and CPSC 16CFR1201 (Cat. I and II)
- PLEASE NOTE:** On visible lite sizes larger than 1296 sq. in. (0.836 m²) on 20 min., please consult with your Door / Frame Manufacturer's procedures, for their maximum glass size tested.

Job Name & Location	Submitted by

For Most Current Info, Consult Factory or check our website, www.anemostat.com



TECHNICAL DATA

FROM

Anemostat Door Products

4958 Stout Dr. #119, San Antonio, TX 78219

PH: 210.662.6300 • FAX: 210.662.2828

e-mail: door@anemostat.com • website: www.anemostat.com

FireGlass-20

1/4" (6mm) CLEAR

(Fire & Impact/Safety Rated)



FIRE RATED BY
UNDERWRITERS'
LABORATORIES

CATEGORY II IMPACT/SAFETY RATED

DETAIL DRAWING



D = Door

NH = NOT HOSE STREAM Tested

NT = Not Temperature Rise

Anemostat manufacturing dimensions $\pm 1/32$
Actual dimensions are nominal and may vary
based on component manufacturers tolerances.



STANDARD PRODUCT FEATURES

- MATERIAL:** 1/4" (6 mm) Specially Tempered Clear.
- INSTALLATION:** FireGlass-20 shall be glazed into the appropriate fire-rated framing with setting blocks and 1/8" fire-rated glazing tape, (supplied loose) to both sides of glass. Check for clearance around the edges, and adjust setting blocks as needed. Openings must be plumb and square. Allow for a minimum edge clearance of 1/4" (+1/8" / -1/16") and a minimum edge cover of 3/8" (+1/16" / -1/16"). Inspect each piece of FireGlass-20 immediately before installation and eliminate any glass with observable edge damage or face imperfections. Place setting blocks, 3" minimum (76mm) at the quarter points.
- CLASSIFICATION MARKINGS:** Each piece of FireGlass-20 shall be labeled with the appropriate marking on sizes up to 6,396 sq.in. (4.126 m²)
- USES:** FireGlass-20 is a 1/4" (6mm) fire-rated and impact safety-rated glazing material. It carries listings for use in doors, sidelites, transoms and borrowed lites with a fire rating requirement of 20 minutes. (WITHOUT HOSE STREAM TEST). May be lightly sandblasted / etched or beveled on one side without affecting fire rating
- IMPORTANT:** Interpretation of building and fire codes may vary. Consult with the local authority having jurisdiction in your area, to determine appropriate standards.

Also available as an IGU, contact factory.

FIRE RATINGS (with U.L. classification markings) Positive Pressure

- Listed and labeled by Underwriters Laboratories, Inc.® Test report numbers for labeled 20 minute fire-rated assemblies include: UL File No. R13377. All above tests performed in accordance with ASTM E-152, ASTM E-163, CSFM 43.7, NFPA 252, UBC 43.2, UBC 7.2-97, UBC 7.4-97, UL-9, UL-10B and UL-10C.

DOORS

- 20 MINUTE:** Approved listing at 3204 sq. in. (2.067 m²) visible lite. max. width 36" (914mm), max. height 89" (2261mm). (WITHOUT HOSE STREAM)

Before specifying Fireglass-20 in any location other than a 20 minute door leaf, please consult with your local Authority Having Jurisdiction.

IMPACT / SAFETY RATINGS

- Meets ANSI Z97.1 and CPSC 16CFR1201 (Cat. I and II)
- PLEASE NOTE:** On visible lite sizes larger than 1296 sq. in. (0.836 m²) on 20 min., please consult with your Door / Frame Manufacturer's procedures, for their maximum glass size tested.

Job Name & Location	Submitted by



TECHNICAL DATA

FROM

Anemostat Door Products

4958 Stout Dr. #119, San Antonio, TX 78219

PH: 210.662.6300 • FAX: 210.662.2828

e-mail: door@anemostat.com • website: www.anemostat.com

FREQUENTLY
ASKED
QUESTIONS

PILKINGTON PYROSTOP™

DETAIL DRAWING

What is it?

Pilkington Pyrostop™ is a multi-laminate fire-resistant glazing material, manufactured by Pilkington for more than 20 years. It offers high impact safety and fire ratings up to 2 hours. In addition to stopping the spread of flames and smoke, Pilkington Pyrostop™ acts as a barrier to the transfer of heat, protecting lives and property.

Why a multi-laminate?

Ordinary glass cannot survive intense heat on its own. Unless you're talking about alternative glazing materials, such as the ceramic FireLite products, fire-rated glass must be "reinforced" in some way to provide fire protection. There are several ways to do this. Glass can be specially tempered, which works to a degree, but tempered glass cannot withstand thermal shock. Wires can be inserted in the glass to hold it in place during a fire, but that raises concerns over impact safety. And wired glass has a less desirable appearance than clear glass.

Pilkington Pyrostop™ achieves a fire rating via a different option. Multiple layers of glass "sandwich" special interlayers. During a fire, the pane facing the fire fractures but is held in place by the interlayer. That interlayer turns to foam, which effectively prevents heat from passing through. As the fire continues to burn, the next layer of glass breaks and the next interlayer turns to foam. This pattern repeats for the duration of the fire.

Why does Pilkington Pyrostop™ vary in thickness?

The thickness of Pilkington Pyrostop™ depends on the fire rating required. A window with a 45 minute rating will be much thinner than a 2 hour fire-rated wall. The longer the time frame, the more layers needed to block the heat.

What does a "barrier-to-heat" mean?

A "barrier-to-heat" product is one that has been tested to the same standard as a solid barrier wall (ASTM E-119). It prevents a fire's radiant heat from transferring through the wall to the space on the other side.

This can be critical in certain areas of a building. For example, in a multi-story office building, there might be the possibility of tenants being trapped in a stairwell for a long period of time during a fire. Since structural fires can quickly exceed 1,500° F (816° C), temperatures could quickly rise to an intolerable level, even if flames do not enter the stairwell.

Similarly, sensitive computer rooms can be protected from damage by barrier-to-heat products. Tests have shown that even with a fire raging on one side of Pilkington Pyrostop™, a person can safely place their hand on the opposite side of the glass without getting burned.

Some products are being marketed as "significantly reducing radiant heat." However, these products do not meet the required test standard for barrier-to-heat products. If there is a concern about the dangers of high temperatures, make sure the glass you choose has been tested as a fire wall and meets ASTM E-119.

Does Pilkington Pyrostop™ have a tint?

Most multi-laminate products take on a significant amount of color, due to the iron in the glass. Pilkington incorporates a special OptiWhite™ process in all Pyrostop™ products with a rating of 60 minutes or more to eliminate any tint and provide outstanding clarity.

Ordinary multilaminate products have a definite green tint.

Pilkington Pyrostop is clear.

Can it be cut?

As with all glazing that acts as a true fire barrier wall, Pilkington Pyrostop™ cannot be cut in the field.

Other Questions?

Check our Technical Data Sheets, e-mail: door@anemostat.com or call 310-835-7500. We're here to help!



TECHNICAL DATA

FROM

Anemostat Door Products

4958 Stout Dr. #119, San Antonio, TX 78219

PH: 210.662.6300 • FAX: 210.662.2828

e-mail: door@anemostat.com • website: www.anemostat.com

Pyrostop®

(Fire & Impact/Safety Rated)



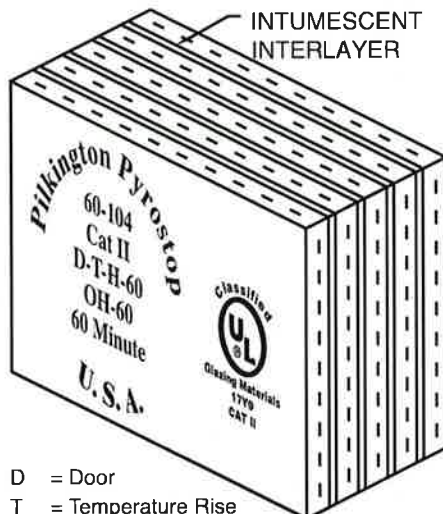
FIRE RATED BY

UNDERWRITERS'
LABORATORIES



CATEGORY II IMPACT/SAFETY RATED
ANSI Z97.1 2004 U A

DETAIL DRAWING



INTUMESCENT
INTERLAYER

AVAILABLE THICKNESSES

3/4" (19mm)
7/8" (23mm)
1-1/16" (27mm)
1-5/16" (33mm)
1-7/16" (37mm)
1-9/16" (40mm)
1-5/8" (41mm)
2-1/8" (54mm)
2-3/16" (56mm)
2-3/8" (60mm)
2-7/16" (62mm)



D = Door
T = Temperature Rise
H = HOSE STREAM Tested
OH = Opening (Window, Sidelite or Transom)

±8% Tolerance

STANDARD PRODUCT FEATURES

- MATERIAL:** Manufactured using multiple layers of float glass laminated with transparent intumescent interlayers.
- INSTALLATION:** Pyrostop shall be glazed vertically into approved fire-rated framing with hard-wood setting blocks located at the quarter points for proper support of the glass. Glaze with closed cell PVC (GT-116 supplied loose) tape or silicone wet seal. Exterior grade Pyrostop shall be glazed with the PVB layer toward the exterior of the building. Setting blocks to be furnished by installer. Openings must be plumb and square. Allow a minimum clearance of 3/16" (5mm) on each edge. Before installation, inspect each piece of Pyrostop and eliminate any glass with observable edge damage or face imperfections. Check for clearance around the edges, and adjust setting blocks as needed. Do not remove protective edge tape. Do not pressure glaze.
- CLASSIFICATION MARKING:** Each piece of Pyrostop shall be permanently labeled with the appropriate marking.
- ADDITIONAL PRODUCT FEATURES:** Pilkington Pyrostop is a fire-rated and impact/safety-rated glazing material. Pilkington Pyrostop also blocks heat, protecting people and valuables on the non-fire side of the glass where heat transfer might be a concern. It is listed for use in doors, sidelites, transoms, borrowed lites and wall applications with a fire rating of up to 2 hours.

IMPACT / SAFETY RATINGS

- Meets ANSI Z97.1 and CPSC 16CFR1201 (Cat. I and II)

SOUND RATINGS with LoPro-STC

- LoPro-STC with Pyrostop 60-101 7/8" (23mm):*** STC - 41
- TESTED SIZE:** 24" X 36" (610 X 914mm) CUTOUT / ASSEMBLY
- TESTED IN ACCORDANCE WITH:** ASTM E90-09 and ASTM E2235-04. STC measurements determined in accordance with ASTM E413-04. Testing conducted at Western Electro - Acoustic Laboratory, Santa Clarita, CA.
- * Fire Rated - see Glazing Section for ratings and maximum allowable sizes

FIRE RATINGS (with U.L. classification markings) Positive Pressure

- Listed with Underwriters Laboratories, File numbers R16644 (doors and windows) and R16132 (walls). Tests performed in accordance with ASTM E-119, CAN/ULC S101, ASTM E2074, ASTM E2010, UL 263, UL 9, UL 10B, UL 10C, CSFM 43.7, NFPA 80, NFPA 251, NFPA 252, NFPA 257, UBC 43.2, UBC 43.4, UBC 7-2, UBC 7-4, CAN4 S-104, CAN4 S-106. Approved for use in New York City; MEA 241-00-M. Approved for use in Los Angeles; LARR 25798.

DOORS - Approved Listing

- 45/60/90 MINUTES:** at 3724 sq. in. (2.403 m²)
visible lite. max. width 41-5/8" (1058mm), or max height 89-3/4" (2280mm)
3/4" (19mm) - 45 min. / 40 dB -STC (45-200)
*7/8" (23mm) - 60 min. / 41 dB -STC (60-101) - with **LoPro-STC**
1-1/16" (27mm) - 60 min. / 44 dB -STC / **Level I - Bullet Resistance†** (60-201)
1-5/16" (33mm) - 45 min / 40 dB -STC (45-260)-IGU
*1-7/16" (37mm) - 90 min. / 45 dB -STC (90-102)
1-9/16" (40mm) -120 min. / 46 dB -STC / **Level II - Bullet Resistance†** (120-202)
1-5/8" (41mm) - 60 min. / 44 dB -STC (60-261)-IGU

TRANSOMS and WALLS - Approved Listing

- 45 MINUTES:** at 4500 sq. in.(2.903m²)
max width 95-1/4" (2419mm), or max height 95-1/4" (2419mm)
3/4" (19mm) - 40 dB -STC (45-200)
1-5/16" (33mm) - 40 dB -STC (45-260)-IGU
- 60 MINUTES:** at 5605 sq. in.(3.615m²),
max width 96" (2438mm), or max height 96" (2438mm)
*7/8" (23mm) - 41 dB -STC (60-101)
1-1/16" (27mm) - 44 dB -STC, **Level I - Bullet Resistance†** (60-201)
1-5/8" (41mm) - 44 dB -STC, (60-261)-IGU
- 120 MINUTES:** at 3724 sq. in. (2.403m²),
max width 111" (2819mm), or max height 111" (2819mm)
1-9/16" (40mm) - 46 dB -STC, **Level II - Bullet Resistance†** (120-202)
2-1/8" (54mm) - 46 dB -STC, Int. (120-104)-IGU, Ext. (120-262)-IGU
2-3/8" (60mm) - 46 dB -STC (120-262)-IGU
- 120 MINUTES:** at 3724 sq. in. (2.403m²),
max width 95" (2413mm), or max height 95"(2413mm)
2-3/16" (56mm) - 46 dB -STC, **Level II - Bullet Resistance†** (120-201)-IGU
2-7/16" (62mm) - 46 dB -STC, **Level III - Bullet Resistance†** (120-201)-IGU

* Interior use only. All other sizes may be used in both interior and exterior applications

†Bullet Resistance (with film) must be specified on order.

- Available up to Level VIII Bullet Resistance in different IGU Make-ups - Consult factory

IMPORTANT: Interpretation of building and fire codes may vary. Consult with the local authority having jurisdiction in your area, to determine appropriate standards.

Job Name & Location	Submitted by

For Most Current Info, Consult Factory or check our website, www.anemostat.com



TECHNICAL DATA

FROM

Anemostat

Door Products

4958 Stout Dr. #119, San Antonio, TX 78219

PH: 210.662.6300 • FAX: 210.662.2828

e-mail: door@anemostat.com • website: www.anemostat.com

TEMPERED

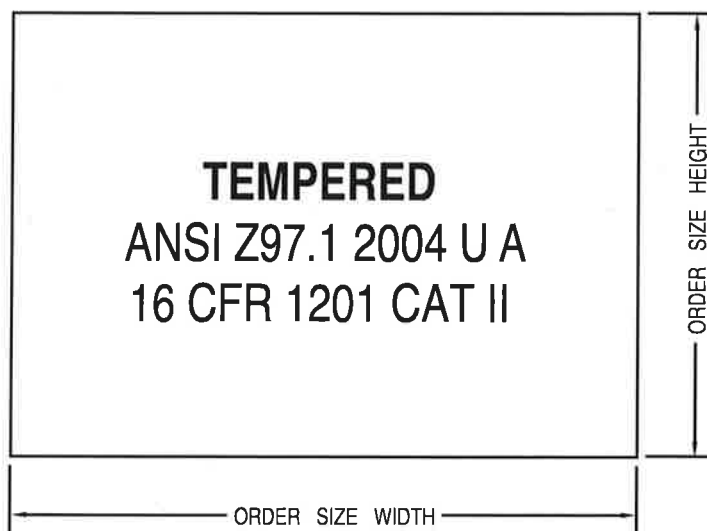
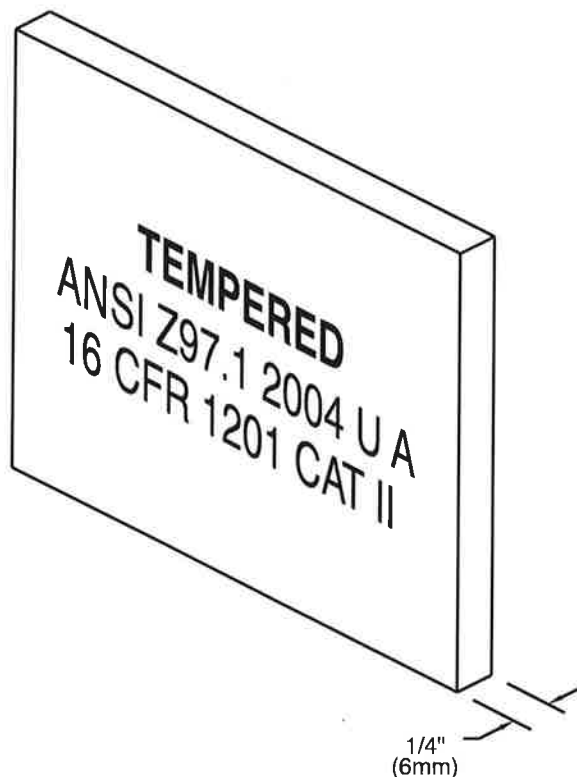
IMPACT/SAFETY RATED

1/4" (6mm)

NOT FIRE RATED

CATEGORY II IMPACT/SAFETY RATED

DETAIL DRAWING



STANDARD PRODUCT FEATURES

- **MATERIAL:** 1/4" (6mm) clear Tempered Glass is fully heat treated strengthened glass which is stronger than ordinary float glass.
- **INSTALLATION:** Tempered Glass shall be glazed into the appropriate framing with 1/8" (3.2mm) glazing tape (supplied loose) to both sides of glass.
- **STRENGTH:** It has bending and impact strengths which are 3 to 5 times higher than those of annealed glasses of the same thickness.
- **THERMAL SHOCK STRENGTH:** Is approximately three times as resistant to rapid temperature changes as annealed glass.
- **SAFETY:** Tempered Glass breaks into small particles upon impact, preventing serious injury, unlike annealed glass which can break into large, sharp pieces.

OPTIONAL FEATURES

- **COLORS:** Available in Bronze, Gray, Graylite, and Obscure.
- **SIZES:** Customized shapes to fit almost any shape vision frame.
CANNOT be cut after manufacturing.

IMPACT / SAFETY RATINGS

- Meets ANSI Z97.1-2004 U A and CPSC 16 CFR 1201 Category II, Impact Test Standard.

CONFORMS TO THE FOLLOWING

- ASTM C1036
- ASTM C1048

Job Name & Location	Submitted by



TECHNICAL DATA

FROM

Anemostat Door Products

4958 Stout Dr. #119, San Antonio, TX 78219

PH: 210.662.6300 • FAX: 210.662.2828

e-mail: door@anemostat.com • website: www.anemostat.com

Tempered IGU

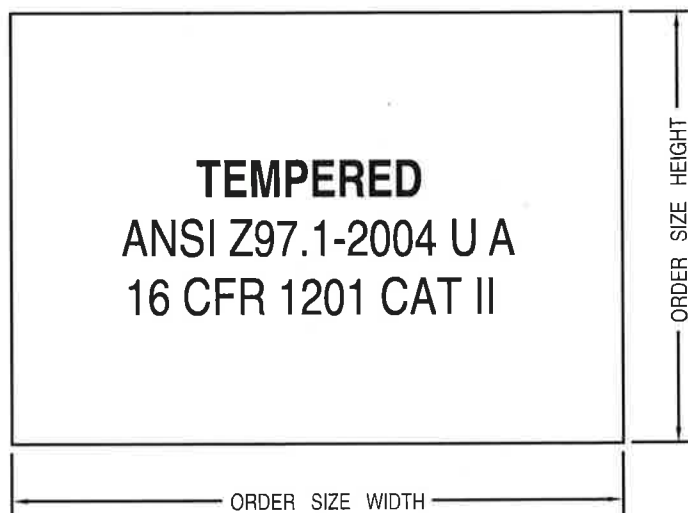
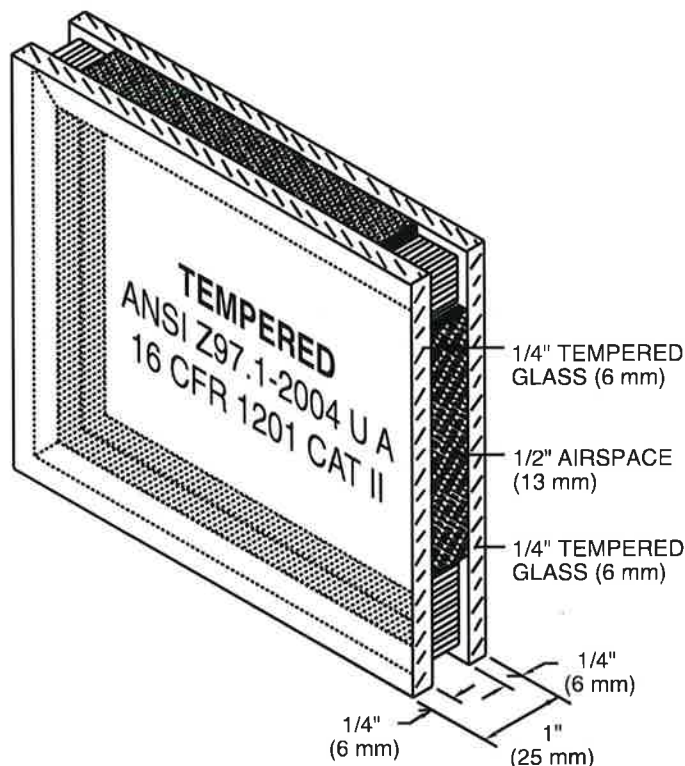
1" (25mm) INSULATED

NOT
FIRE RATED



CATEGORY II IMPACT/SAFETY RATED
ANSI Z97.1 2004 U A

DETAIL DRAWING



STANDARD PRODUCT FEATURES

- MATERIAL:** 1/4" (6mm) clear Tempered Glass is fully heat treated strengthened glass which is stronger than ordinary float glass.
- INSTALLATION:** Tempered IGU shall be glazed into the appropriate framing with 1/16" (1.6mm) glazing tape (supplied loose) to both sides of glass.
- STRENGTH:** It has bending and impact strengths which are 3 to 5 times higher than those of annealed glasses of the same thickness.
- THERMAL SHOCK STRENGTH:** Is approximately three times as resistant to rapid temperature changes as annealed glass.
- SAFETY:** Tempered Glass breaks into small particles upon impact, preventing serious injury, unlike annealed glass which can break into large, sharp pieces.
- USES:** For applications where energy codes require an insulated unit and for interior applications for special needs such as sound reduction in non-fire rated doors and sidelites.

OPTIONAL FEATURES

- COLORS:** Available in Bronze, Gray, Graylite, and Obscure.
- SIZES:** Customized shapes to fit almost any shape vision frame.
CANNOT be cut after manufacturing.

IMPACT / SAFETY RATINGS

- Meets ANSI Z97.1-2004 U A and CPSC 16 CFR 1201 Category II, Impact Test Standard.

SOUND RATINGS with LoPro-STC

- LoPro-STC with Tempered IGU:** STC - 35 (Safety Rated Only)
- TESTED SIZE:** 24" X 36" CUTOUT / ASSEMBLY
- TESTED IN ACCORDANCE WITH:** ASTM E90-09 and ASTM E2235-04.
STC measurements determined in accordance with ASTM E413-04.
Testing conducted at Western Electro - Acoustic Laboratory, Santa Clarita, CA.

CONFORMS TO THE FOLLOWING

- ASTM C1036**
- ASTM C1048**

Job Name & Location	Submitted by



TECHNICAL DATA

FROM

Anemostat Door Products

4958 Stout Dr. #119, San Antonio, TX 78219

PH: 210.662.6300 • FAX: 210.662.2828

e-mail: door@anemostat.com • website: www.anemostat.com

Laminated IGU

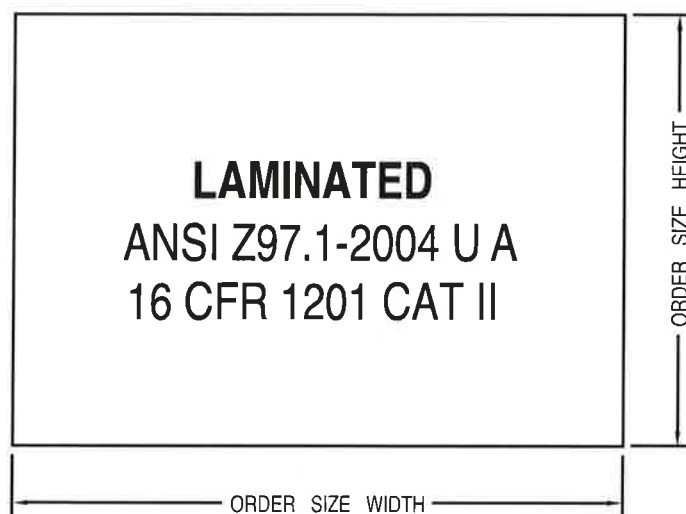
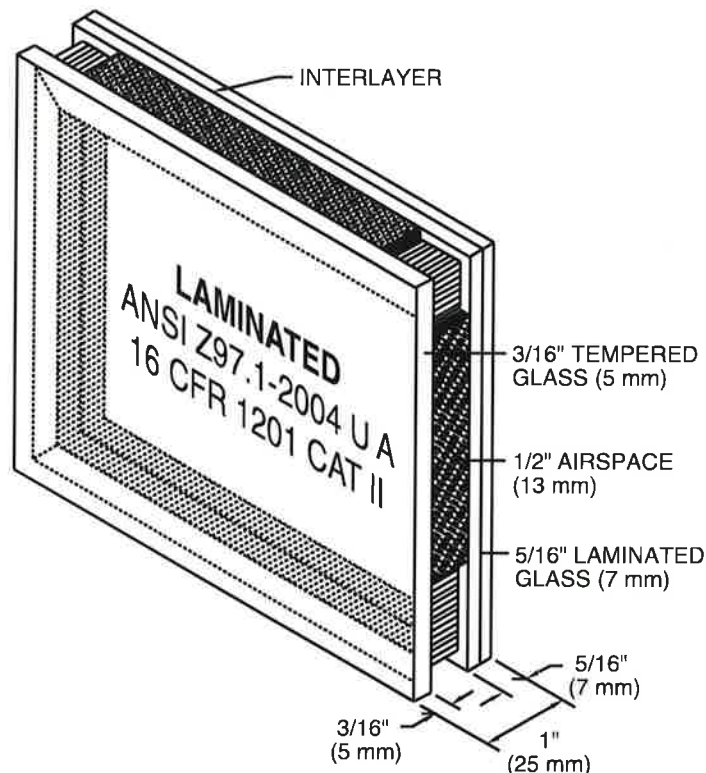
1" (25mm) INSULATED

NOT
FIRE RATED



CATEGORY II IMPACT/SAFETY RATED
ANSI Z97.1 2004 U A

DETAIL DRAWING



STANDARD PRODUCT FEATURES

- MATERIAL:** 3/16" (5mm) clear Tempered Glass is heat treated strengthened glass which is stronger than ordinary float glass. 5/16" (8mm) Laminated Glass is two sheets of glass with an interlayer
- INSTALLATION:** Laminated IGU shall be glazed into the appropriate framing with 1/16" (1.6mm) glazing tape (supplied loose) to both sides of glass.
- STRENGTH:** It has bending and impact strengths which are 3 to 5 times higher than those of annealed glasses of the same thickness.
- THERMAL SHOCK STRENGTH:** Is approximately three times as resistant to rapid temperature changes as annealed glass.
- SAFETY:** Tempered Glass breaks into small particles upon impact, preventing serious injury, unlike annealed glass which can break into large, sharp pieces. When Laminated Glass breaks numerous cracks appear but glass fragments tend to adhere to the interlayer.
- USES:** For applications where energy codes require an insulated unit and for interior applications for special needs such as sound reduction in non-fire rated doors and sidelites.

OPTIONAL FEATURES

- COLORS:** Available in Bronze, Gray, Graylite, and Obscure.
- SIZES:** Customized shapes to fit almost any shape vision frame. CANNOT be cut after manufacturing.

IMPACT / SAFETY RATINGS

- Meets ANSI Z97.1-2004 U A and CPSC 16 CFR 1201 Category II, Impact Test Standard.

SOUND RATINGS with LoPro-STC

- LoPro-STC with Laminated IGU:** STC - 42 (Safety Rated Only)
- TESTED SIZE:** 24" X 36" (610 X 914mm) CUTOFF / ASSEMBLY
- TESTED IN ACCORDANCE WITH:** ASTM E90-09 and ASTM E2235-04. STC measurements determined in accordance with ASTM E413-04. Testing conducted at Western Electro - Acoustic Laboratory, Santa Clarita, CA.

CONFORMS TO THE FOLLOWING

- ASTM C1036 • ASTM C1172
- ASTM C1048

Job Name & Location	Submitted by

For Most Current Info, Consult Factory or check our website, www.anemostat.com



TECHNICAL DATA

FROM

Anemostat Door Products

4958 Stout Dr. #119, San Antonio, TX 78219

PH: 210.662.6300 • FAX: 210.662.2828

e-mail: door@anemostat.com • website: www.anemostat.com

X-RAY-S GLASS

Impact/Safety Rated

CATEGORY II IMPACT/SAFETY RATED

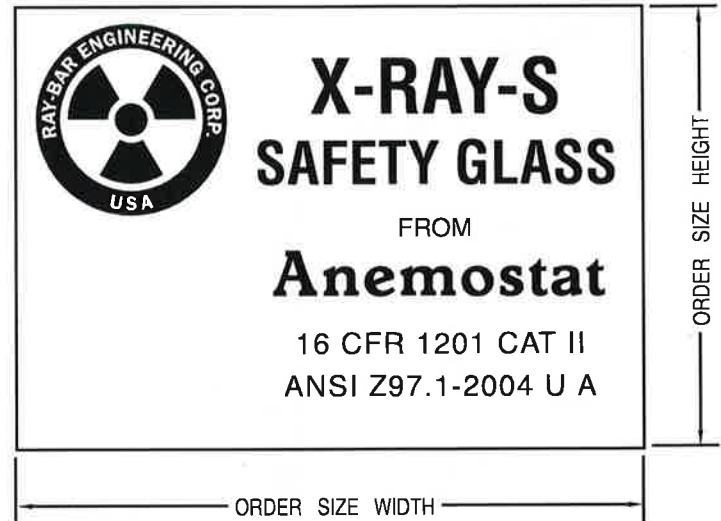
X-RAY GLASS

NON-Impact/Safety Rated

5/16" (8mm) CLEAR

Radiation Protective Lead Glass

DETAIL DRAWING



STANDARD PRODUCT FEATURES

- **MATERIAL:** 5/16" (8mm) X-Ray-S Safety Glass
5/16" (8mm) X-Ray Glass - Non-Safety Rated
- **FINISH:** Clear with slight yellow hue
- **INSTALLATION:** By using glazing tape or glazing compound on both sides of glass, sandwiched between a lead lined metal vision frame, or lead lined steel window frame.
- **CLASSIFICATION MARKINGS:** Each piece of glass is cut to size. 5/16" (8mm) X-Ray Safety Glass is permanently marked as meeting ANSI Z97.1 and CPSC 16 CFR 1201 Cat II requirements for impact resistance.
- **USES:** In applications requiring up to 2mm lead equivalent for X-Ray protection and impact resistance in a lead lined door or sidelite.
- **LEAD EQUIVALENT:** Nominal 2.0mm
- **LBS. LEAD EQUIVALENT / SQ. FT.:** 5.0 +
- **LIGHT TRANSMISSION:** 86% +

NOTE: Customer must specify lead shielding equivalent requirement. Calculations for lead shielding requirements should be determined by a health physicist currently recognized by the state in which the project occurs.

OPTIONAL FEATURES

- **SIZES:** Customized glass sizes to fit most any shape lead lined vision frame. Maximum size available is 48" x 96" (1219mm x 2438mm). Higher lead equivalencies are available upon request.
- Also available in a non-safety rated version for use in non-hazardous locations.

FIRE RATINGS (w/ U.L. classification markings) Positive Pressure

Only when utilizing Lead Lined FGS-MS5-FR and FireLite® NT or FireLite® Plus

- 20/45 minute: approved listing at 1296 square inch (0.836 m²) visible lite
- 60/90 minute: approved listing at 100 square inch (0.065 m²) visible lite

IMPACT / SAFETY RATINGS

X-Ray-S (only)

Meets ANSI Z97.1-2004 and CPSC 16CFR-1201.
- Category II - over 9 sq. ft. (0.836 m²)

CODE ACCEPTANCE AND CERTIFICATIONS

- Meets Federal Specification DD-G-451
- Meets NCRP Report #49 and #147

Job Name & Location	Submitted by

For Most Current Info, Consult Factory or check our website, www.anemostat.com



TECHNICAL DATA

FROM

Anemostat

Door Products

4958 Stout Dr. #119, San Antonio, TX 78219

PH: 210.662.6300 • FAX: 210.662.2828

e-mail: door@anemostat.com • website: www.anemostat.com

LEXAN®

MR10 SHEET

with

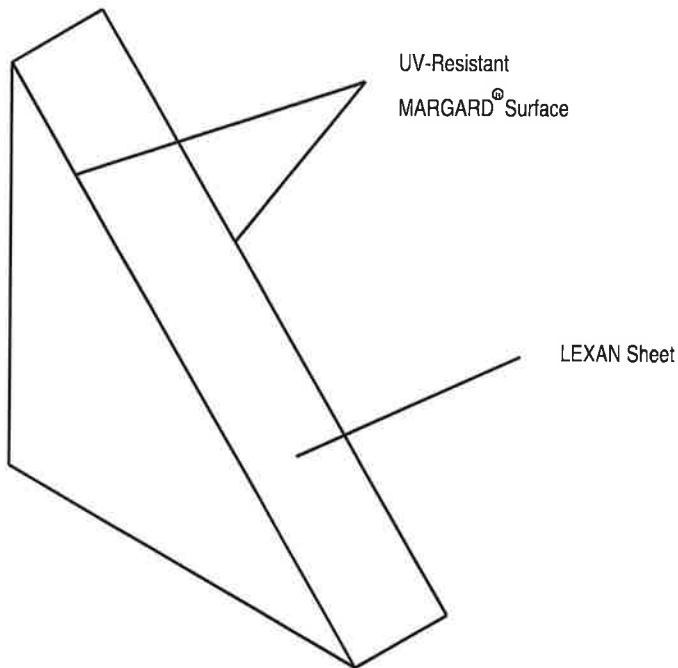
MARGARD® Surface UV
and Abrasion Resistant GLAZING

1/8" (3mm), 1/4" (6mm)

3/8" (10mm), 1/2" (13mm)

CATEGORY I & II IMPACT/SAFETY RATED
A product of Sabic Innovative Plastics

DETAIL DRAWING

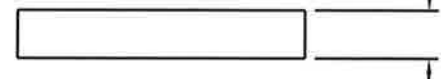


1/8" (3mm)



.118 inches

1/4" (6mm)



.236 inches

3/8" (10mm)



.375 inches

1/2" (13mm)



.500 inches

±5% Tolerance

STANDARD PRODUCT FEATURES

- **AVAILABLE:** in 1/8" (3mm), 1/4" (6mm), 3/8" (10mm), 1/2" (13mm) thickness
- **COLORS:** Clear, Gray, Graylite and Bronze
- **FEATURES:** Combines the impact strength of LEXAN polycarbonate sheet with a proprietary Abrasion-UV resistant MARGARD® surface. Defies Graffiti to stick.
- **WARRANTY:** Backed by a Limited Ten-year warranty against breakage, yellowing, abrasion, loss of light transmission and coating delamination.
- **IMPACT RESISTANCE:** Virtually unbreakable, LEXAN MR-10 sheet has up to 250 times the impact strength of glass and 30 times that of acrylic
- **CLEANING INSTRUCTIONS:** Please see Cleaning Instructions for LEXAN, page 22, this section.

CODE COMPLIANCE

- Approved by BOCA, ICBO, and SBCCI Model Building Code Organizations and Dade County for use as an Approved Plastic Material for Light Transmitting Applications. LEXAN MR10 sheet has the highest rating - Class CC-1 Approved Plastic.
- UNDERWRITERS LABORATORIES: LEXAN MR10 sheet is listed as a Burglary-Resisting Glazing Material according to UL Standard 972.
- CPSC: 16 CFR 1201 Category I and II: LEXAN MR10 sheet complies with the Consumer Products Safety Commissions Safety Standard for Architectural Glazing Materials for both Category I and Category II applications.

ABRASION RESISTANCE COMPARISON

TABER ABRASION	TEST METHOD	Uncoated Polycarbonate	LEXAN MR10 sheet	GLASS
100 Cycles CS10F	ASTM D1044 Z26.1	35.0	1.0 - 4.0	0.5

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Job Name & Location	Submitted by

For Most Current Info, Consult Factory or check our website, www.anemostat.com

MARCH 2012
GLASS AND GLAZING MATERIALS PAGE 18



TECHNICAL DATA

FROM

Anemostat Door Products

4958 Stout Dr. #119, San Antonio, TX 78219

PH: 210.662.6300 • FAX: 210.662.2828

e-mail: door@anemostat.com • website: www.anemostat.com

MP-750

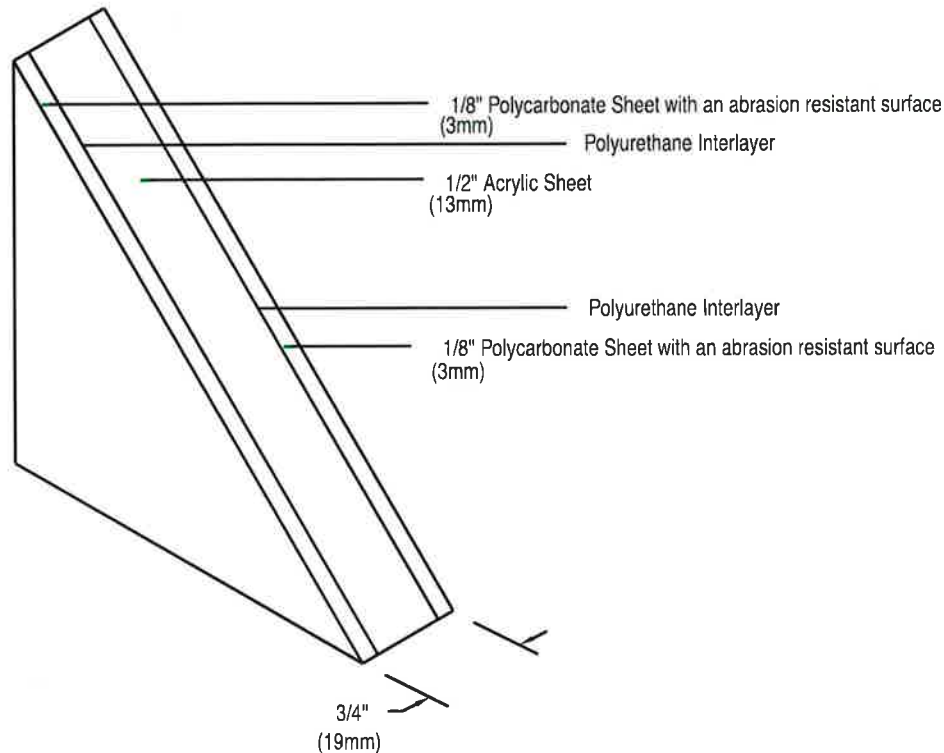
LEXGARD® LAMINATE

3/4" (19mm)

BULLET-RESISTANT and FORCED
ENTRY
SECURITY GLAZING

A product of Lexgard Laminates, LLC

DETAIL DRAWING



±8% Tolerance

STANDARD PRODUCT FEATURES

- Lexgard MP-750 laminate is a three-ply polycarbonate and acrylic laminate primarily developed for security protection. Lexgard MP-750 laminate with an abrasion resistant surface, combines dependable ballistics protection and exceptional abrasion resistance.
- Weight: 4.6 lbs. per sq.ft. (2.086 Kg per 0.093 m²)
- Shading Coefficient (calculated): 1.04 clear
- U-Factor: .71
- % Light Transmission: 87 clear (Average Gardner Value)
- Available Colors: Clear, Bronze, Gray
- Virtually Unbreakable
- CLEANING INSTRUCTIONS: Please see Cleaning Instructions for LEXAN, page 22, this section.
- Conforms with ICBO, BOCA and SBCC1 model building codes as an approved light transmitting plastic with a C2 (CC-2) flammability performance level.

® LEXGARD is a Registered Trademark of Lexgard Laminates, LLC

BALLISTICS and FORCED ENTRY RATINGS

- Complies with the requirement of H.P. White-TP-0500.00 for:
Level B - Ballistic material (9mm) handgun;
Level I - Forced-entry material.
- Complies with the requirements of ASTM F1233-93 for .38 super bullet resistance protection.
- Recognized by Underwriters Laboratories as providing Level 1 (9mm) Small Arms handgun protection per UL Standard 752.

GLAZING INFORMATION

- Structural security metal framing is suggested and where applicable rated to the appropriate bullet resistant level. A minimum edge engagement of one (1) inch (25mm) is recommended with allowances for material expansion. (Larger lites may require deeper engagements.) The use of compatible sealant or gasket material is recommended, with flexible material on both sides of the laminate. Do not use PVC gasket material. Do not use setting blocks made from PVC, EPDM, or neoprene rubber materials. Santoprene rubber should be suggested. If these other rubber products are required, a protective barrier material should be used between the rubber setting block and the LEXGARD® sheet edge.

* Santoprene is a registered trademark of Exxon Mobil Corporation

Job Name & Location	Submitted by

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MARCH 2012
GLASS AND GLAZING MATERIALS PAGE 19



TECHNICAL DATA FROM **Anemostat** Door Products

4958 Stout Dr. #119, San Antonio, TX 78219

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MP-1000

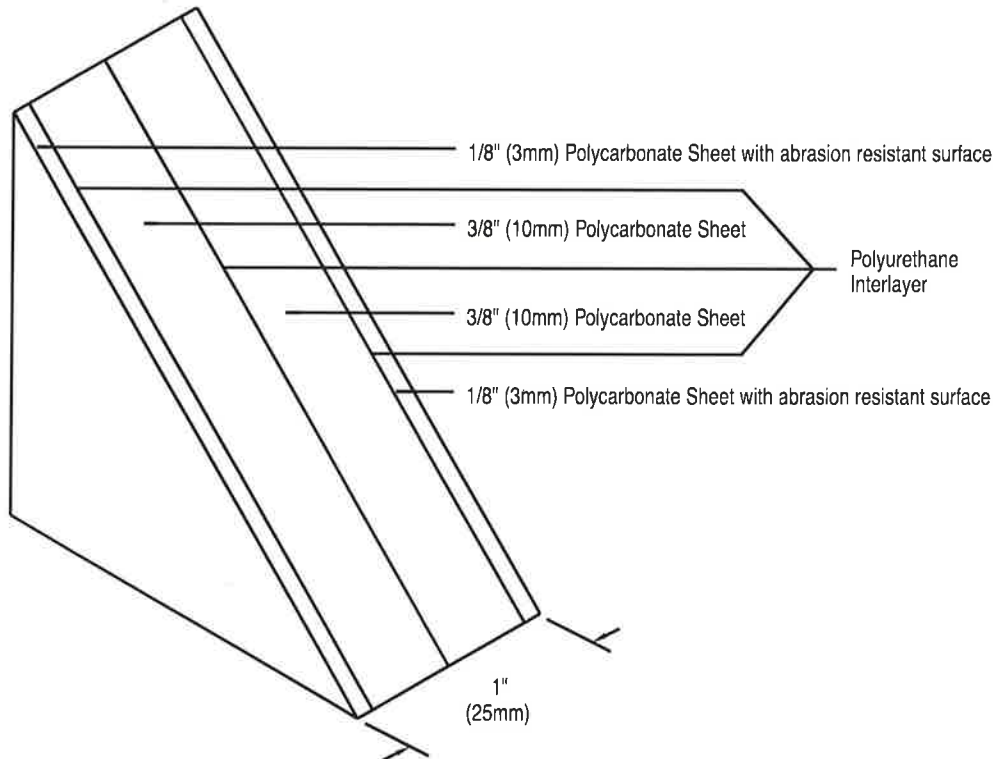
LEXGARD® LAMINATE

1" (25mm)

BULLET-RESISTANT and FORCED
ENTRY
SECURITY GLAZING

A product of Lexgard Laminates, LLC

DETAIL DRAWING



±5% Tolerance

STANDARD PRODUCT FEATURES

- Lexgard MP-1000 laminate is a four-ply polycarbonate laminate primarily developed for Security protection. Lexgard MP-1000 laminate with an abrasion resistant surface combines dependable protection and exceptional abrasion resistance.
- Weight: 6.4 lbs. per sq.ft. (2.903 Kg per 0.093 m²)
- Shading Coefficient (calculated): .93 clear
- U-Factor: .62
- % Light Transmission: 72 clear (Average Gardner Value)
- Available Colors: Clear, Bronze, Gray
- Virtually Unbreakable
- CLEANING INSTRUCTIONS: Please see Cleaning Instructions for LEXAN, page 22, this section.

BALLISTICS and FORCED ENTRY RATINGS

- Complies with the requirement of H.P. White-TP-0500.00 for: Level B - Ballistic material (9 mm) handgun; Level V (step 42) - Forced-entry material.
- Complies with ASTM F1233-08 .38 super, bullet resistant protection Class V (step 41) - Forced-Entry Protection. Contraband Class II (Step 11)
- Recognized by Underwriters Laboratories as providing Level 2 (.357 Magnum) handgun protection per UL Standard 752.
- Conforms with ICBO, BOCA and SBCC1 model building codes as an approved light transmitting plastic with a C1 (CC-1) flammability performance level.

GLAZING INFORMATION

- Structural security metal framing is suggested and where applicable rated to the appropriate bullet resistant level. A minimum edge engagement of one (1) inch (25mm) is recommended with allowances for material expansion. (Larger lites may require deeper engagements.) The use of compatible sealant or gasket material is recommended, with flexible material on both sides of the laminate. Do not use PVC gasket material. Do not use setting blocks made from PVC, EPDM, or neoprene rubber materials. Santoprene rubber should be suggested. If these other rubber products are required, a protective barrier material should be used between the rubber setting block and the LEXGARD® sheet edge.

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Job Name & Location	Submitted by

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MARCH 2012
GLASS AND GLAZING MATERIALS PAGE 20



TECHNICAL DATA

FROM

Anemostat Door Products

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SP-1250

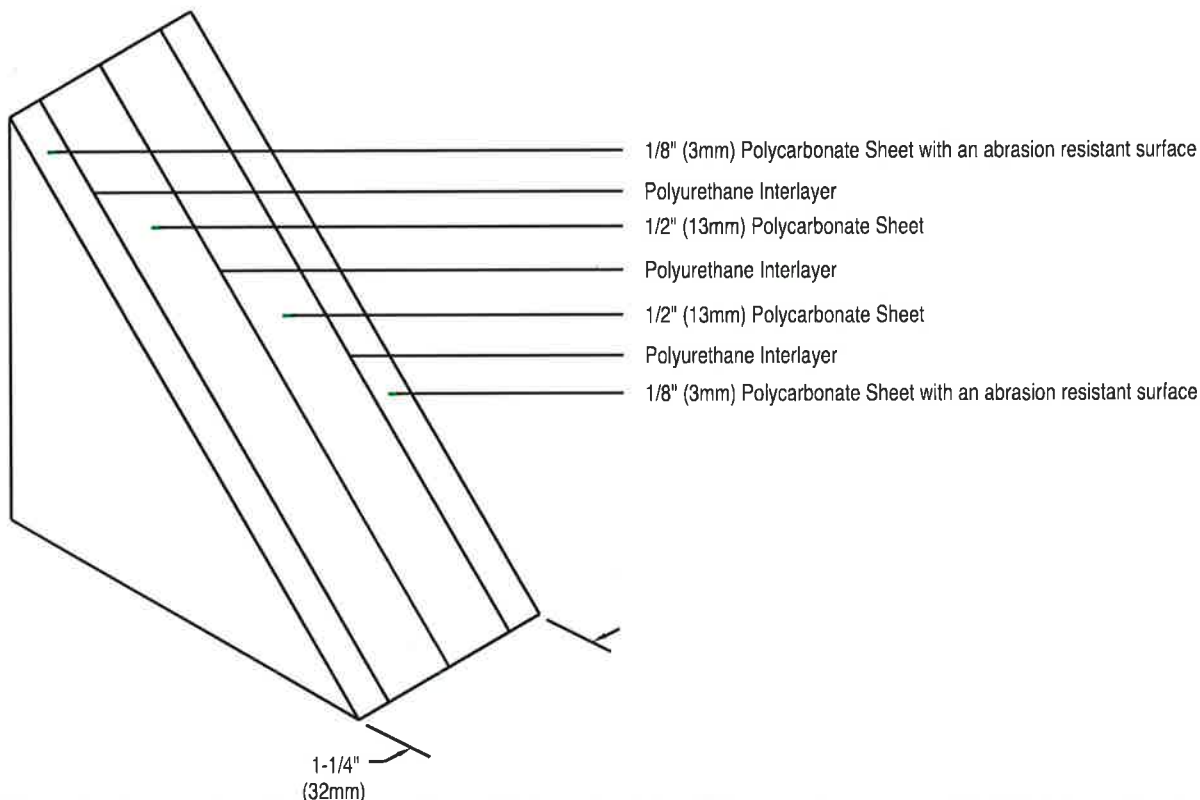
LEXGARD® LAMINATE

1-1/4" (32mm)

BULLET-RESISTANT and FORCED
ENTRY
SECURITY GLAZING

A product of Lexgard Laminates, LLC

DETAIL DRAWING



±5% Tolerance

STANDARD PRODUCT FEATURES

- Lexgard SP-1250 laminate is a four-ply polycarbonate laminate primarily developed for Security protection. Lexgard SP-1250 laminate with an abrasion resistant surface combines dependable protection and exceptional abrasion resistance.
- Weight: 7.7 lbs. per sq.ft. (3.493 Kg per 0.093 m²)
- Shading Coefficient (calculated): .90 clear
- U-Factor: .56
- % Light Transmission: 67 clear (Average Gardner Value)
- Available Colors: Clear, Bronze, Gray
- Virtually Unbreakable
- CLEANING INSTRUCTIONS: Please see Cleaning Instructions for LEXAN, page 22, this section.

BALLISTIC and FORCED ENTRY RATINGS

- Complies with the requirement of H.P. White-TP-0500.00 for:
Level C - Ballistic material (.44 Magnum) handgun;
Level V (step 54) - Forced-entry material.
- Complies with ASTM F1233-08 (.44 Magnum) bullet resisting protection Class V (step 41) - Forced-Entry Protection. Contraband Class III (step 20)
- Recognized by Underwriters Laboratories as providing Level 3 (.44 Magnum) handgun protection per UL Standard 752.
- Conforms with ICBO, BOCA and SBCC1 model building codes as an approved light transmitting plastic with a C1 (CC-1) flammability performance level.

GLAZING INFORMATION

- Structural security metal framing is suggested and where applicable rated to the appropriate bullet resistant level. A minimum edge engagement of one (1) inch (25mm) is recommended with allowances for material expansion. (Larger lites may require deeper engagements.) The use of compatible sealant or gasket material is recommended, with flexible material on both sides of the laminate. Do not use PVC gasket material. Do not use setting blocks made from PVC, EPDM, or neoprene rubber materials. Santoprene rubber should be suggested. If these other rubber products are required, a protective barrier material should be used between the rubber setting block and the LEXGARD® sheet edge.

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Job Name & Location	Submitted by

For Most Current Info, Consult Factory or check our website, www.anemostat.com

AUGUST 2014
GLASS AND GLAZING MATERIALS PAGE 21



TECHNICAL DATA

FROM

Anemostat Door Products

4958 Stout Dr. #119, San Antonio, TX 78219

PH: 210.662.6300 • FAX: 210.662.2828

e-mail: door@anemostat.com • website: www.anemostat.com

CLEANING
INSTRUCTIONS
FOR

LEXAN® LEXGARD LAMINATES

DETAIL DRAWING

Cleaning Instructions

When LEXAN sheet is first installed, glazing compound and masking paper adhesives can be easily removed by applying naphtha (VM&P) or kerosene with a soft cloth, followed immediately with a thorough soap and water cleaning. DO NOT USE GASOLINE. Adherence to regular and proper cleaning procedures is recommended to preserve appearance.

LEXAN and LEXGARD Sheet Cleaning Instructions

Because of this material's highly mar- and UV-resistant coating, avoid the use of abrasive cleaners and/or cleaning implements that may mar or gouge the coating.

Graffiti Removal for LEXAN MR10 Sheet

- Butyl cellosolve works well for the removal of paints, marking pen inks, lipstick, etc.
- Masking tape, adhesive tape or lint removal tools work well for lifting off old, weathered paints.
- To remove labels, stickers, etc., the use of kerosene or VM&P naphtha is generally effective. When the solvent will not penetrate sticker material, apply heat (hair dryer) to soften the adhesive and promote removal. GASOLINE SHOULD NOT BE USED.

Job Site Precautions

New construction and renovations frequently require that the glazing and surrounding sash and wall finish be cleaned of any excess mortar, paint, sealant, primers or other construction compounds. Only recommended cleaners should be used to clean LEXAN sheet. Contact with harsh solvents such as methyl ethyl ketone (MEK) or muriatic acid can result in surface degradation and possible crazing of LEXAN sheet.

Washing to Minimize Scratching

Wash LEXAN sheet and LEXGARD® laminates with a mild soap or detergent (e.g., Formula 409® Household Cleaner) and lukewarm water, using a clean sponge or a soft cloth. Rinse well with clean water. Dry thoroughly with a chamois or moist cellulose sponge to prevent water spots.

Fresh paint splashes, grease and smeared glazing compounds can be removed easily before drying by rubbing lightly with a good grade of VM&P naphtha, isopropyl alcohol or butyl cellosolve (2-butoxy ethanol). Do not use butyl cellosolve in direct sunlight.

Afterward, a warm final wash should be made, using a mild soap or detergent solution and ending with a thorough rinsing with clean water.

Minimizing Hairline Scratches

Scratches and minor abrasions can be minimized by using a mild automobile polish. Three such products that tend to polish and fill scratches are Johnson Paste Wax, Novus Plastic Polish #1 and #2, Novus Inc., Minneapolis, MN, Mirror Glaze plastic polish (M.G.M10), Mirror Bright Polish Co., Pasadena, CA. It is suggested that a test be made on a sample of LEXAN sheet with the product selected and that the polish manufacturer's instructions be followed.

The following cleaning agents have been deemed compatible with LEXAN sheet and LEXGARD laminates. The manufacturer's recommendations and instructions should be followed.

- | | |
|---------------------------------|--------------------------------------|
| — Formula409 ¹ | — Top Job ² |
| — Freon T.F. | — VM&P grade naphtha |
| — Joy ³ | — Windex with Ammonia D ⁴ |
| — Palmolive Liquid ⁵ | |

¹ Registered Trademark of Texize, Division of Norton Norwich Products, Inc.

² Registered Trademark of Procter & Gamble.

³ Registered Trademark of Colgate Palmolive.

⁴ Registered Trademark of the Drackett Products Company.

Some important "Don'ts"

- DO NOT use abrasive or highly alkaline cleaners on LEXAN sheet products.
- Never scrape LEXAN sheet products with squeegees, razor blades or other sharp instruments.
- Benzene, gasoline, acetone, or carbon tetrachloride should never be used on LEXAN sheet products.
- DO NOT clean LEXAN sheet products in hot sun or at elevated temperatures.

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® LEXGARD is a Registered Trademark of Lexgard Laminates, LLC



TECHNICAL DATA

FROM

Anemostat Door Products

4958 Stout Dr. #119, San Antonio, TX 78219

PH: 210.662.6300 • FAX: 210.662.2828

e-mail: door@anemostat.com • website: www.anemostat.com

GLAZING TAPE

(1/32", 1/16", 1/8", 1/4")

CLOSED CELL FOAM SEALANT



UNDERWRITERS'
LABORATORIES

FIRE
RATINGS



WARNOCK
HERSEY

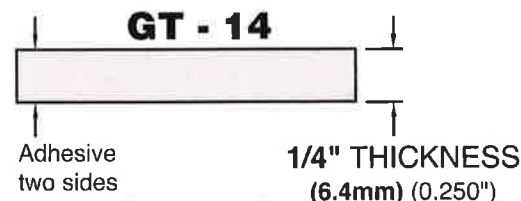
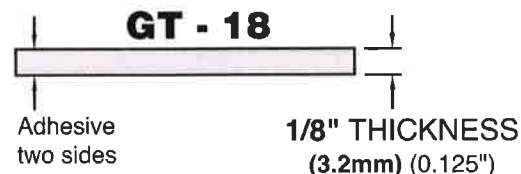
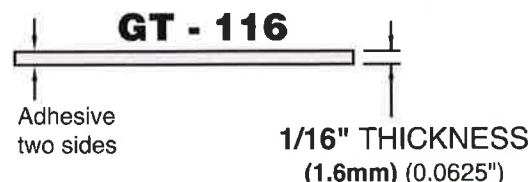
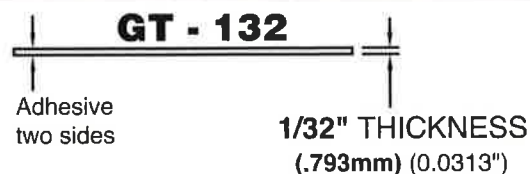
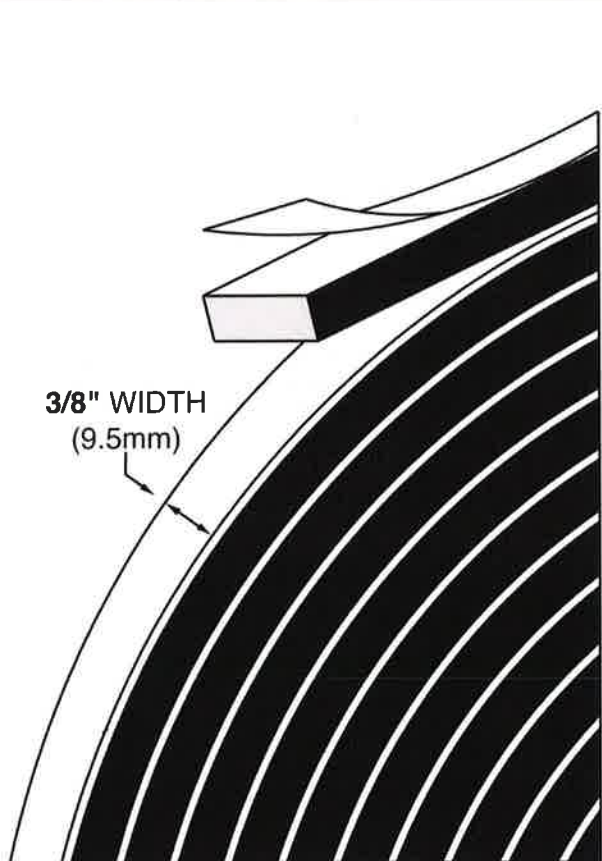
EN-1634

European Standard

B.S.-476.22

British Standard

DETAIL DRAWING



SIZES ARE NOT TO SCALE

STANDARD PRODUCT FEATURES

- MATERIAL:** Closed Cell Polyvinyl Chloride Foam Tape with pressure sensitive adhesive on two sides, protected with a paper or polyethylene liner.
- COLOR:** Black.
- WIDTH:** 3/8" (10 mm) wide (all sizes).
- INSTALLATION:** Peel off from roll and place exposed adhesive side directly on to clean surface of vision frame or glass to be glazed. Do not remove liner until sealant is in proper position.
- USES:** Excellent for glazing joints with high movement. Exceeds the requirements of AAMA 810.1 specification.
- NOTE:** Material should be stored at 70°F (21°C), 50% relative humidity. Minimum recommended application temperature is 45°F (7°C).

OPTIONAL FEATURES

- THICKNESS:** 1/32" (0.0313") - 3/8" width x 200 Lft (60.98 m) per roll.
1/16" (0.0625") - 3/8" width x 200 Lft (60.98 m) per roll.
1/8" (0.125") - 3/8" width x 100 Lft (30.49 m) per roll.
1/4" (0.250") - 3/8" width x 50 Lft (15.24 m) per roll.

FIRE RATINGS (w/ U.L. & W.H.I. classification markings) Positive Pressure

- 20/45/60/90/180 MINUTE:** When used in a fire rated door component assembly.

BS 476.22

British Standard

Timber Doors - 30 min.

Steel Doors - 1 hour.

EN-1634

European Std.

30/60 min. integrity and insulation - Indicative Testing

- IMPORTANT:** Because Anemostat can not anticipate or control every potential application, we strongly recommend testing of this product under individual application conditions/use prior to use. The product contains plasticizer which may adversely affect some plastics.

Job Name & Location	Submitted by

SPECIFICATIONS: STANDARD ENTRANCE DOORS

GENERAL DESCRIPTION

Work includes furnishing all necessary materials, labor and equipment for the installation of the aluminum entrance doors, door frame and hardware as specified herein.

NOT included: Structural support of the framing system.

PRODUCTS/MATERIALS

Aluminum entrance shall be model (s): Narrow stile 2", Medium Stile 3 11/16" and Wide Stile 5" (Nominal) as manufactured by Ramco (Reliable Architectural Metals Company), Detroit, Michigan. Door and frame sections shall be extruded aluminum AA-6063-T5 alloy with a nominal wall thickness of .125". Glazing and door moldings a minimum of .062". Weather-stripping to be silicone treated plastic pile and glazing gaskets shall be EPDM elastomeric extrusions or vinyl with a fiberglass reinforcement cord to prevent stretching. Weather-stripped insert in top and bottom rail is (optional). .375" high tension, zinc plated steel tie rods run the full width of the top and bottom rails joined together with .250" aluminum reinforcing plates and .375" serrated lock nuts. Narrow Stile doors shall have an adjustable setting block in the top rail.

FINISH HARDWARE

Ramco doors shall be supplied with standard hardware unless otherwise specified. Refer to the finish hardware section of Division 8 for requirements for finish hardware items not specified herein. Glass and glazing shall conform to the requirements specified in section "Glass and Glazing." The architect must specify special hardware for custom doors and entrances.

Hardware furnished by others shall be sent to Ramco for application.

FABRICATION

Doors shall be mortised to provide positive interlocking of door rails to door stiles. Assembled with .375" diameter high tension steel plated rod, with .250" reinforced corner plate. Welding is (optional) in corner construction.

FINISHES

All exposed framing surfaces shall be free of scratches and other serious blemishes. Aluminum extrusions shall be given an acid etch, followed by an anodic oxide treatment conforming to the American Architectural Metal Association to obtain a color anodized finish AA-M12C2XA31 class II (clear anodized) or AA-M12C2XA44 class I (dark bronze anodized). Wood grain, black anodize, powder coat, and Kynar finishes are available upon request.

EXECUTION

Entrance doors and framing system shall be installed, glazed, and adjusted by experienced workers in accordance with Ramco's installation instructions and the approved shop drawings.

CLEANING AND PROTECTION

The installer shall prevent the aluminum entrance materials and finish from damage during the installation of the materials. After installation it is the responsibility of the general contractor or owner to prevent damage to the aluminum entrance materials and finish. Ramco assumes no responsibility after pick up or delivery.

NOTE: "Always Service All Ways" is our trade mark and to keep up with today's innovations Ramco reserves the right to change specifications without written notice.



RELIABLE ARCHITECTURAL METALS COMPANY

9751 ERWIN STREET

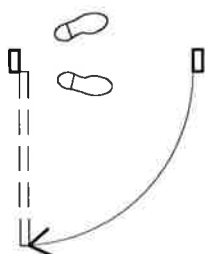
DETROIT, MI 48213

PH: 800.445.0263 FAX: 313.924.8877

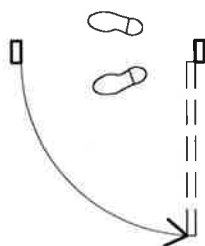
STANDARD ENTRANCES

DETERMINATION OF DOOR SWING / HANDING

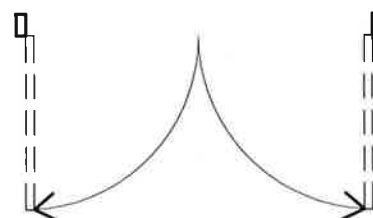
SINGLE SWING
RIGHT HAND (RH)



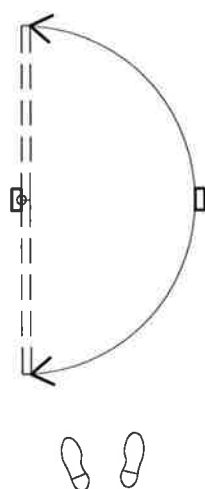
SINGLE SWING
LEFT HAND (LH)



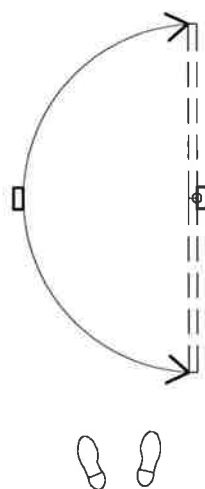
SINGLE SWING
PAIR



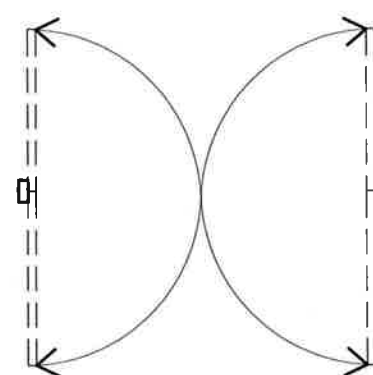
DOUBLE SWING
(HINGE ON THE LEFT)



DOUBLE SWING
(HINGE ON THE RIGHT)



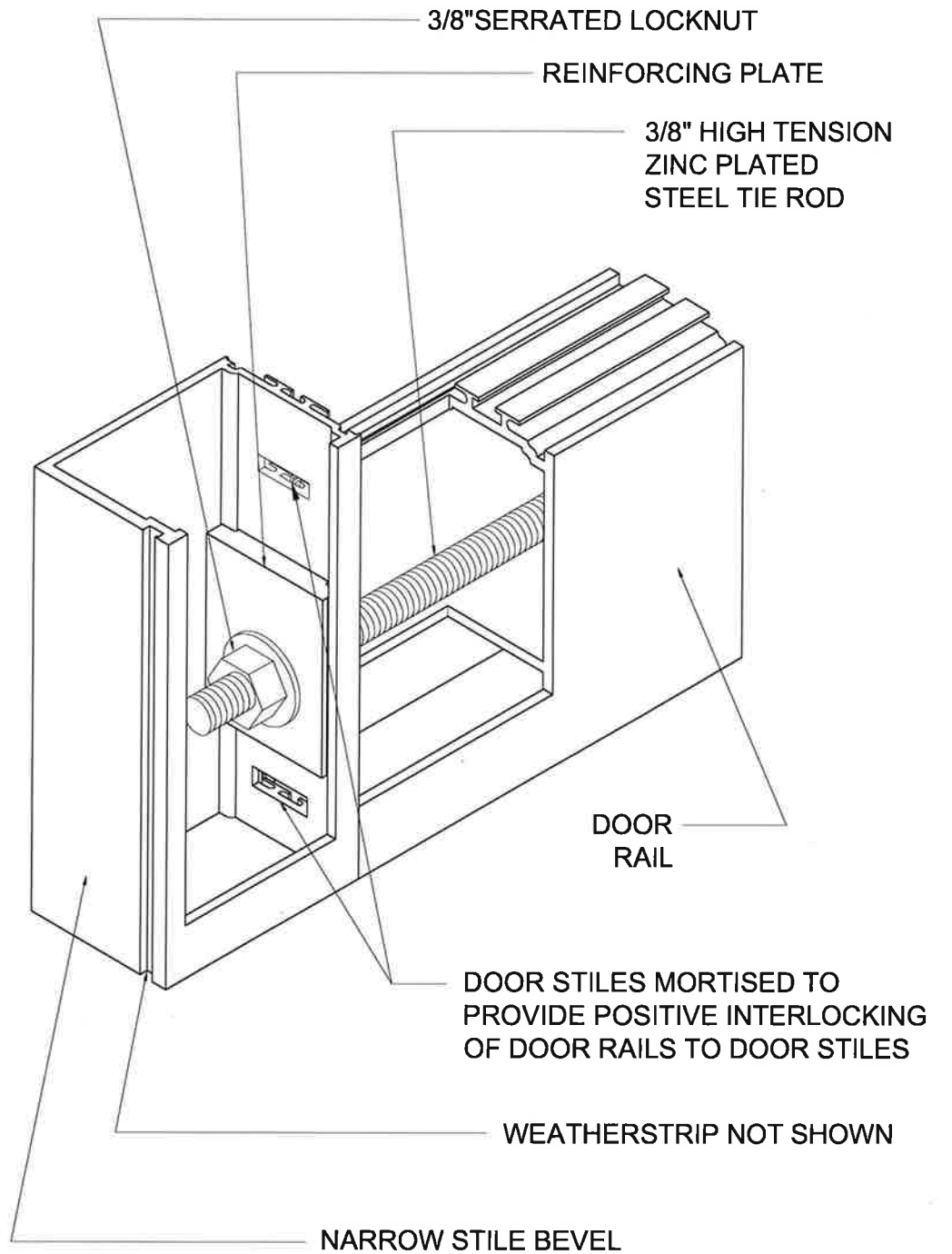
DOUBLE SWING
PAIR





RELIABLE ARCHITECTURAL METALS COMPANY

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DETROIT, MI 48213
PH: 800.445.0263 FAX: 313.924.8877



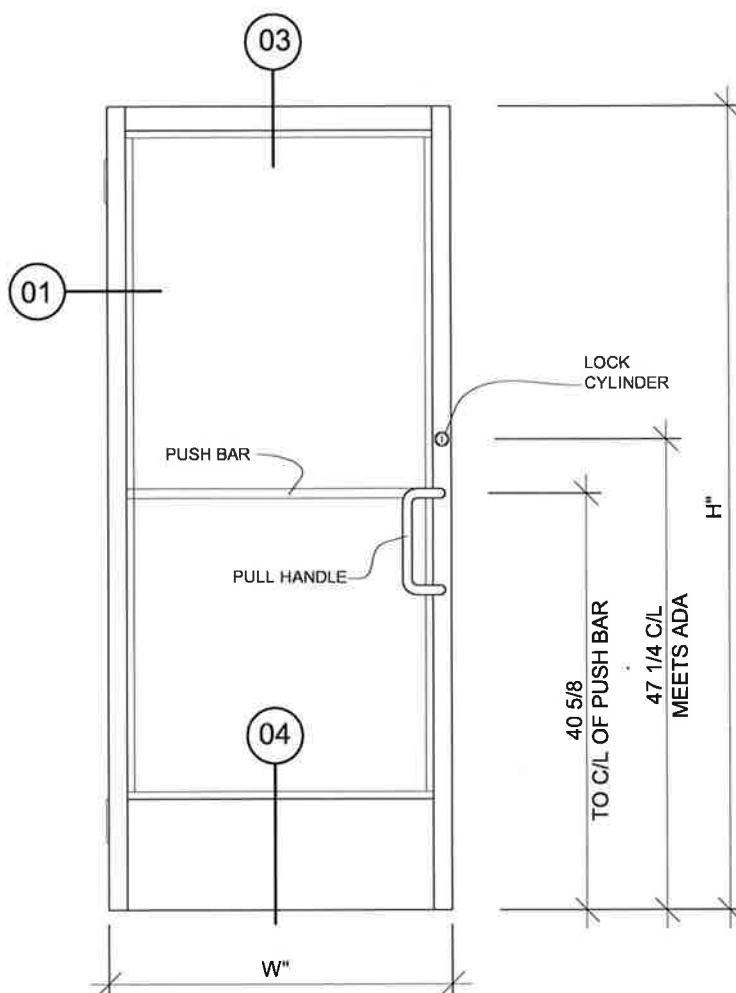
DOOR ASSEMBLY



RELIABLE ARCHITECTURAL METALS COMPANY

9751 ERWIN STREET
DETROIT, MI 48213
PH: 800.445.0263 FAX: 313.924.8877

STANDARD ENTRANCES



SINGLE DOOR STANDARD SIZES

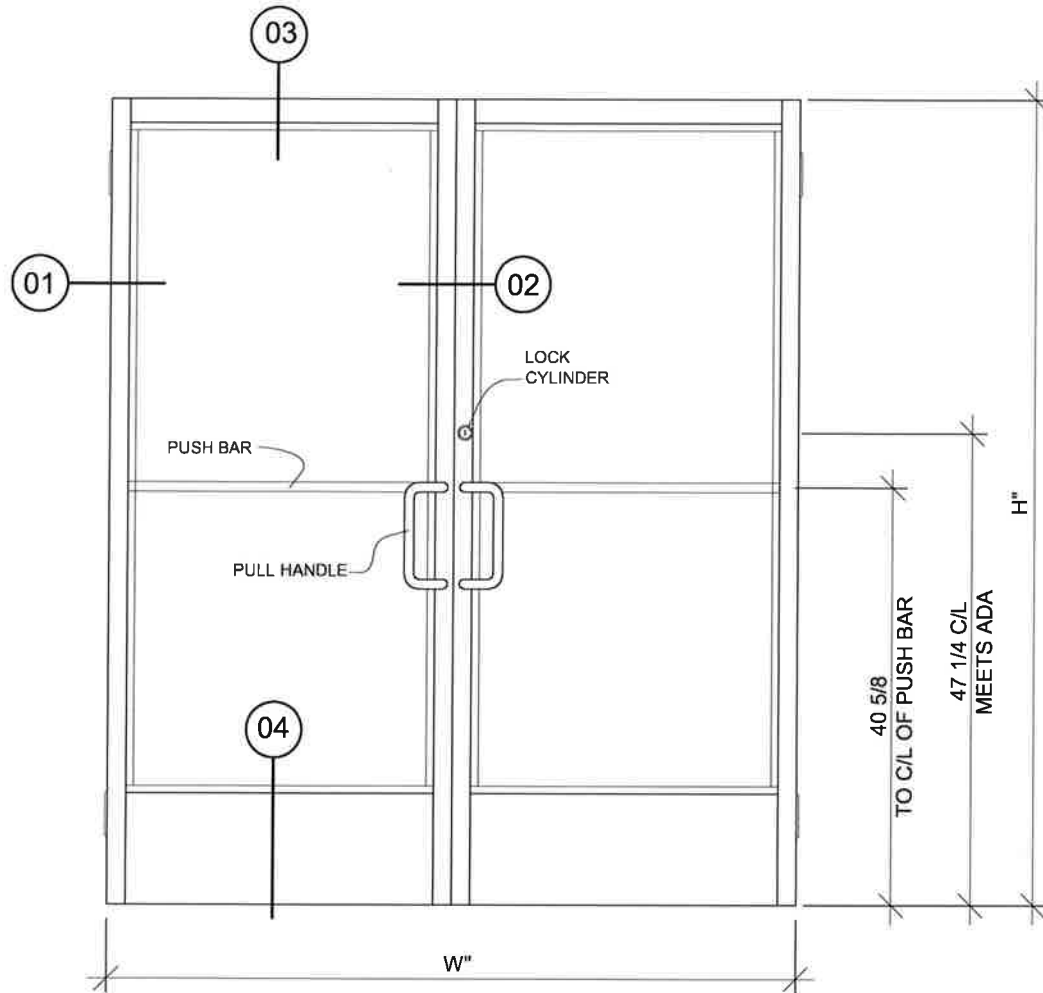
STILE	HANDING	SWING	WIDTH (W)	HEIGHT (H)
NARROW	(LH) OR (RH)	SINGLE OR DOUBLE	36"	84"
NARROW	(LH) OR (RH)	SINGLE OR DOUBLE	42"	84"
MEDIUM	(LH) OR (RH)	SINGLE OR DOUBLE	36"	84"
MEDIUM	(LH) OR (RH)	SINGLE OR DOUBLE	42"	84"
WIDE	(LH) OR (RH)	SINGLE OR DOUBLE	36"	84"
WIDE	(LH) OR (RH)	SINGLE OR DOUBLE	42"	84"



RELIABLE ARCHITECTURAL METALS COMPANY

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STANDARD ENTRANCES



PAIR OF DOORS STANDARD SIZES

STILE	HANDING	SWING	WIDTH (W)	HEIGHT (H)
NARROW	PAIR	SINGLE OR DOUBLE	72"	84"
NARROW	PAIR	SINGLE OR DOUBLE	84"	84"
MEDIUM	PAIR	SINGLE OR DOUBLE	72"	84"
MEDIUM	PAIR	SINGLE OR DOUBLE	84"	84"
WIDE	PAIR	SINGLE OR DOUBLE	72"	84"
WIDE	PAIR	SINGLE OR DOUBLE	84"	84"

G. WOOD - (Siding, Trim, Shutters, Sashes, Misc., Hardboard-Bare/Primed)

1. Latex Systems

a. Gloss Finish

- 1st Coat: S-W Exterior Latex Wood Primer, B42W8041
(4.0 mils wet, 1.4 mils dry)
- 2nd Coat: S-W A-100 Exterior Latex Gloss, A8 Series
- 3rd Coat: S-W A-100 Exterior Latex Gloss, A8 Series
(4.0 mils wet, 1.4 mils dry per coat)

Early Moisture Resistant Finish

- 1st Coat: S-W Exterior Latex Wood Primer, B42W8041
(4.0 mils wet, 1.4 mils dry)
- 2nd Coat: S-W Resilience Latex Gloss, K44 Series
- 3rd Coat: S-W Resilience Latex Gloss, K44 Series
(4.0 mils wet, 1.6 mils dry per coat)

b. Semi-Gloss Finish

- 1st Coat: S-W Exterior Latex Wood Primer, B42W8041
(4.0 mils wet, 1.4 mils dry)
- 2nd Coat: S-W Solo Acrylic Semi-Gloss, A76 Series
- 3rd Coat: S-W Solo Acrylic Semi-Gloss, A76 Series
(4.0 mils wet, 1.5 mils dry per coat)

c. Satin Finish

- 1st Coat: S-W Exterior Latex Wood Primer, B42W8041
(4.0 mils wet, 1.4 mils dry)
- 2nd Coat: S-W A-100 Exterior Latex Satin, A82 Series
- 3rd Coat: S-W A-100 Exterior Latex Satin, A82 Series
(4.0 mils wet, 1.5 mils dry per coat)

Early Moisture Resistant Finish

- 1st Coat: S-W Exterior Latex Wood Primer, B42W8041
(4.0 mils wet, 1.4 mils dry)
- 2nd Coat: S-W Resilience Latex Satin, K43 Series
- 3rd Coat: S-W Resilience Latex Satin, K43 Series
(4.0 mils wet, 1.6 mils dry per coat)

d. Low Sheen Finish

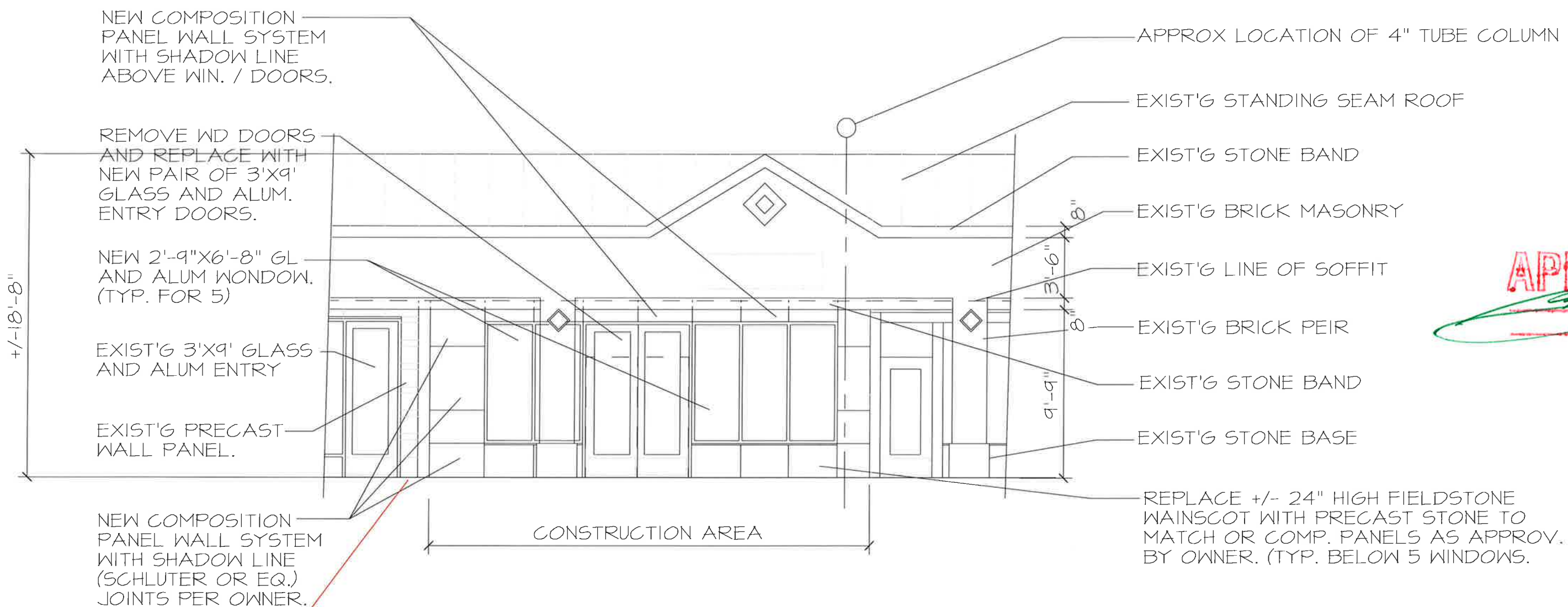
- 1st Coat: S-W Exterior Latex Wood Primer, B42W8041
(4.0 mils wet, 1.4 mils dry)
- 2nd Coat: S-W A-100 Exterior Latex Low Sheen, A12 Series
- 3rd Coat: S-W A-100 Exterior Latex Low Sheen, A12 Series
(4.0 mils wet, 1.5 mils dry per coat)

e. Flat Finish

- 1st Coat: S-W Exterior Latex Wood Primer, B42W8041
(4.0 mils wet, 1.4 mils dry)
- 2nd Coat: S-W A-100 Exterior Latex Flat, A6 Series
- 3rd Coat: S-W A-100 Exterior Latex Flat, A6 Series
(4.0 mils wet, 1.4 mils dry per coat)

Early Moisture Resistant Finish

- 1st Coat: S-W Exterior Latex Wood Primer, B42W8041
(4.0 mils wet, 1.4 mils dry)
- 2nd Coat: S-W Resilience Latex Flat, K42 Series
- 3rd Coat: S-W Resilience Latex Flat, K42 Series
(4.0 mils wet, 1.6 mils dry per coat)



Color to match adjacent brick facade.

APPROVED
10/2/2020
PAA20-0097

PARTIAL FRONT ELEVATION (WEST SIDE)

SCALE: 1/8"=1'-0"

EXTERIOR RENOVATION FOR

643 SOUTH ADAMS ROAD

BIRMINGHAM, MICHIGAN

ARK-TEC L.L.C.
ARCHITECTS

17376 W. TWELVE MILE RD
SUITE 105
SOUTHFIELD, MI 48076
PHONE: 248-925-7333

09/16/20



City of Birmingham
A Walkable Community

Eton I

Administrative Approval Application Planning Division

Form will not be processed until it is completely filled out

APPROVED

9/18/2000

PAA 20-0102

1. Applicant Action Fence of Michigan
Name: _____
Address: 4248 Delemere Court
Royal Oak MI 48073
Phone Number: _____
Fax Number: _____
Email: actionfence24 248 542-3900
@sbcbglobal.net 248 542-6903 Fax

Property Owner
Name: Eton Street Station I
Address: Condominiums Association
3080 Orchard Lake Road, Suite J, Keego Harbor
Phone Number: 248-613-5592 48320
Fax Number: 248-724-2212
Email: ctoles@highlandgroup.net

2. Applicant's Attorney/Contact Person
Name: Constance Toles
Address: 3080 Orchard Lake Rd
Suite J, Keego Harbor, MI 48320
Phone Number: 2-613-5592
Fax Number: 2-724-2212
Email: ctoles@highlandgroup.net

Project Designer
Name: Action Fence of Michigan
Address: 4248 Delemere Court
Royal Oak, MI 48073
Phone Number: 248-542-3900
Fax Number: 248-542-6903
Email: actionfence24@sbcbglobal.net

3. Project Information
Address/Location of Property: Graten Street.
Birmingham MI 48009
Name of Development: Eton Street Station I Condo.
Parcel ID #: _____
Current Use: Condominium
Area in Acres: _____
Current Zoning: _____

Name of Historic District site is in, if any: NA
Date of HDC Approval, if any: N/A
Date of Application for Preliminary Site Plan: _____
Date of Preliminary Site Plan Approval: _____
Date of Application for Final Site Plan: _____
Date of Final Site Plan Approval: _____
Date of Revised Final Site Plan Approval: _____

4. Attachments

- Warranty Deed with legal description of property
- Authorization from Owner(s) (if applicant is not owner)
- Completed Checklist

- Six (6) folded copies of plans including an itemized list of all changes for which administrative approval is requested, with the changes marked in color on all elevations

5. Details of the Request for Administrative Approval

Installation of vinyl fence

The undersigned states the above information is true and correct, and understands that it is the responsibility of the applicant to advise the Planning Division and / or Building Division of any additional changes to the approved site plan.

Signature of Applicant: C Toles

Date: 7-31-20

Application #: PAA 20-0102	Office Use Only	Date Received: 8/19/2000	Fee: \$100.00
Date of Approval: 9/18/2000	Date of Denial: N/A	Reviewed by: _____	

RECEIVED

AUG 19 2020

CITY OF BIRMINGHAM
COMMUNITY DEVELOPMENT DEPT.

CITY OF BIRMINGHAM
Date: 09/30/2020 10:55:34 AM
Ref: 00173224
Receipt: 547928
Amount: \$100.00

ADMINISTRATIVE APPROVAL APPLICATION CHECKLIST – PLANNING DIVISION

Applicant: Actual fence of Michigan Date: _____

Address: 4248 Belvedere Ct, Royal Oak, MI 48073

Project: _____

Eton street station I
condominiums

All site plans and elevation drawings prepared for administrative approval shall be prepared in accordance with the following specifications and other applicable requirements of the City of Birmingham. If more than one page is used, each page shall be numbered sequentially. All plans must be legible and of sufficient quality to provide for quality reproduction or recording.

Administrative Approval of Design Changes

- _____ 1. Name and address of applicant and proof of ownership;
- _____ 2. Name of Development (if applicable);
- _____ 3. Address of site and legal description of the real estate;
- _____ 4. A separate location map;
- _____ 5. Legend and notes, including a graphic scale, north point, and date;
- _____ 6. A list of all requested design changes;
- _____ 7. Elevation drawings with all requested design changes marked in color;
- _____ 9. A list of all new materials to be used, including size specifications, color and the name of the manufacturer.

Administrative Approval of Site Plan Changes

A full site plan detailing the proposed changes for which administrative approval is requested shall be drawn at a scale no smaller than 1" = 100' (unless the drawing will not fit on one 24" X 36" sheet) and shall include:

- _____ 1. Name and address of applicant and proof of ownership;
- _____ 2. Name of Development (if applicable);
- _____ 3. Address of site and legal description of the real estate;
- _____ 4. Name and address of the land surveyor;
- _____ 5. Legend and notes, including a graphic scale, north point, and date;
- _____ 6. A separate location map;
- _____ 7. A map showing the boundary lines of adjacent land and the existing zoning of the area proposed to be developed as well as the adjacent land;
- _____ 8. A list of all requested changes to the site plan;
- _____ 9. All changes requested marked in color on the site plan and on all elevations of any building(s);
- _____ 10. A chart indicating the dates of approval of the Preliminary Site Plan, Final Site Plan; Revised Final Site Plans, and any dates of approval by the Historic District Committee ("HDC");
- _____ 11. Existing and proposed layout of streets, open space and other basic elements of the plan;
- _____ 12. Existing and proposed easements and their purpose;

- _____ 13. Location of natural streams, regulated drains, 100-year flood plains, floodway, water courses, marshes, wooded areas, isolated preservable trees, wetlands, historic features, existing structures, dry wells, utility lines, fire hydrants and any other significant feature(s) that may influence the design of the development;
- _____ 14. General description of, location of, and types of structures on the site;
- _____ 15. Details of existing or proposed lighting, signage, landscaping, and other pertinent development features;
- _____ 16. Any other information requested in writing by the Planning Division, the Planning Board, or the Building Official deemed important to the development.

PLEASE NOTE: All requests for administrative approval must comply with Ordinance No. _____, which outlines the terms and conditions under which administrative approval may be granted.

PROPOSAL

ACTION FENCE of Michigan Inc.

4248 Delemere Court • Royal Oak, MI 48073
www.actionfenceofmi.com

Proposal No.

(248) 542-3900 Fax: (248) 542-6903

Email: actionfence24@sbcglobal.net

PROPOSAL SUBMITTED TO

HIGHLANDER GROUP

DAYTIME PHONE

248-724-2212

DATE

5/21/20

STREET

3080 ORCHARD LAKE RD SOME J

JOB NAME

CONSTANCE TOLES

CITY, STATE AND ZIP

KEEGO HARBOR, MI 48320

JOB LOCATION

2002 HAZEL ST, BIRMINGHAM

ESTIMATOR

TOM/RANDY

REFERRED BY

ONLINE

EMAIL CTOLES@HIGHLANDERGROUP.NET
DIANE@DCAIRS.COM

NEW

CONSTRUCTION

Landscaping involved?

We hereby submit specifications and estimates for:

Install Fence

☐ Level ☒ Follow Grade

Obstruction In Fence Line Above Ground

☒ Owner's responsibility to leave clear access

☐ Contractor's responsibility

☐ No obstructions

Wood Fence

☒ Nice Side Faces

☐ In ☐ Out

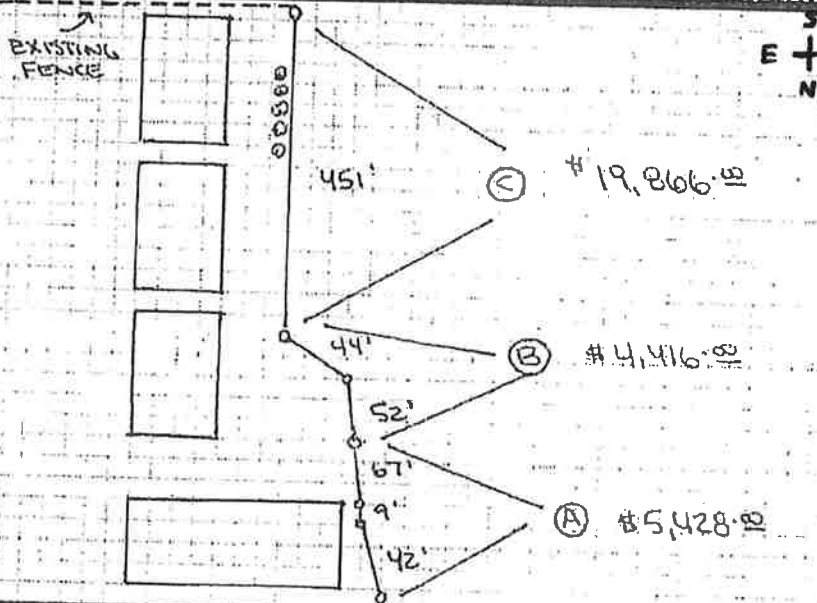
☒ Remove fence 48' x 100'

☒ Installer shall call Miss Dig for location of underground utilities. Customer is responsible for locating all other lines.

☒ Additional charges will be made for abnormal digging conditions or removal of dirt off property

☒ Where does excavated dirt go on property?

ADVISE:



Total Footage

665'

Type of Fence

6' PVC Solid

X KHAKI X

Post Specs.

NEW ENGLAND CLAPS

Extra Features or Special Tools Needed

Customer to pull permit if required

I, customer, hereby agree to stake the fence(s) depicted above. By this, each end, corner or gate post shall have a stake at that point. Failure to do so will result in a \$150 return trip charge. Payable upon completion of job. ACTION FENCE WILL NOT IN ANY WAY BE HELD LIABLE FOR INCORRECTLY STAKED LINES. ACTION FENCE HOLDS NO RESPONSIBILITY FOR DAMAGE TO SPRINKLER LINES, GAS BAR-B-QUE LINES, OR ANY OTHER SUCH LINES. IT IS THE RESPONSIBILITY OF THE CUSTOMER TO MARK WHERE SUCH LINES ARE.

INITIAL

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owners to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workman's Compensation Insurance. Fence materials remain property of Action Fence till paid in full.

Final Payment Due Upon Completion

For the Sum of \$	29,710.00
Haul-Away \$	OLD FENCE INC
Building Permit \$	DETERMINED BY BNO
Sales Tax \$	INC
Total \$	29,710.00
Down Payment \$	14,855.00
Balance Due \$	14,855.00

Acceptance of Proposal

The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

[Signature]
Signature

[Signature]
Customer Signature

X 8/10/2020
Date of Acceptance

[Signature]

1. **Entire Agreement** - This document states the entire agreement between Owner and Action Fence of Michigan, Inc. (hereinafter "Contractor"). NO REPRESENTATIONS, PROMISES, OR WARRANTIES, EXPRESS OR IMPLIED, HAVE BEEN MADE BY THE CONTRACTOR TO THE OWNERS EXCEPT THOSE STATED IN THIS CONTRACT. Any conversations between the Owner and Contractor cannot change this agreement. Any changes must be in writing and signed by the Owner and Action Fence of Michigan Inc.
2. **Severability** - Whenever possible, each provision of this Agreement will be interpreted in a way that is effective and valid under applicable law. If a provision is prohibited by or invalid under applicable law, it will be ineffective only to the extent of such prohibition or invalidity, without invalidating the remainder of such provision or the remaining provisions of this Agreement.
3. **Setting of Fence** - Contractor will place the fences where owner designates by staking. Each corner, or gate post shall have a stake at that point. Failure of Owner to stake fence will result in a \$150.00 return trip charge.
4. **Property Lines** - Owner shall establish and designate property lines. Owner shall be obligated to pay for work performed as ordered even if the fence lines established and designated by Owner trespass on other property. Owner shall likewise be responsible for any damages sustained by the owner of the trespassed property.
5. **Stockpiling Materials** - Contractor shall be permitted to stockpile materials necessary to the performance of its work, on the purchaser's property adjacent to the site of the work, without cost.
6. **Soil Condition** - Should any unusual soil conditions be encountered any extra costs in the performance of the work occasioned by such conditions shall be paid by the Owner. By way of example, unusual soil conditions include but are not limited to clay, construction debris, and rock.
7. **Hidden Objects** - Contractor assumes no responsibility for removing hidden objects encountered during the performance of the work. Any costs incurred by the removal and disposal of such hidden objects shall be borne by the Owner if removal of the hidden object is necessary.
8. **Vegetation** - Contractor shall not be responsible for damaged trees, bushes, shrubs, oaks, or grass during the course of the work, nor shall contractor be obligated to remove such damaged or destroyed vegetation.
9. **Permits** - Owner agrees to make all necessary arrangements to pull, and pay for any and all permits or assessments if any required for the work. Owner also agrees to make all necessary arrangements for inspections required for this contract. Contractor assumes no responsibility for determining whether the contracted for work will violate any ordinance, zoning regulation, or other law.
10. **Warranty**
 - a. **Term** - THE DURATION OF ANY IMPLIED WARRANTIES FOR DEFECTIVE LABOR AND/OR MATERIALS INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS, IS LIMITED TO THE DURATION OF THIS LIMITED WARRANTY. CONTRACTOR MAKES NO OTHER WARRANTIES EXPRESS OR IMPLIED. Action Fence of Michigan Inc. fully warrants its workmanship and materials pursuant to the job specifications for three years providing job is paid in full. This warranty does not cover wood fence parts that have warped, cracked, split or rotted.
 - b. **Exclusivity** - The parties agree that the sole and exclusive remedy against the contractor for any defective work will be limited to the repair or replacement of defective labor and/or materials provided they promptly notify Contractor in writing of any defect as required herein. This exclusive remedy will not be deemed to have failed its essential purpose if Contractor is willing and able to repair and replace the defective labor and/or materials.
- c. **Scope** - The warranty described in this paragraph will be IN LIEU OF any other warranty, express or implied, including but not limited to, any implied warranty of MERCHANTABILITY or fitness for a particular purpose.
- d. **Claim by Owner** - If the owner has a claim under this warranty, the Owner must notify Action Fence of Michigan Inc. in writing within thirty (30) days of the first appearance of the defect.
- e. **Effective date** - Full payment of all amounts due under this contract is an express condition precedent to Contractor's duty to perform any remedial work under this warranty.
11. **Dispute Resolution**
 - a. **Notice** - Prior to making a demand for Mediation, or seeking relief through any third party, Owner shall send Contractor a written notice of all issues or concerns they feel need to be addressed.
 - b. **Mediation** - Prior to instituting litigation against Action Fence of Michigan Inc. the owner and contractor shall have first attempted to resolve the dispute by using the mediation services provided by the Oakland Mediation Center, 2267 S. Telegraph Rd., Bloomfield Hills, MI 48302 (248) 338-4280.
12. **Resultant Damages** - Contractor will not be liable for any loss, damage, or injury resulting from delay in delivery or installation of the services and/or goods for any failure to perform which is due to circumstances beyond its control. The maximum liability, if any, of the contractor for all damages, including without limitation, contract damages and damages for injuries to persons or property, whether arising from Purchaser's breach of the agreement, breach of warranty, negligence, strict liability, or other tort, is limited to an amount not to exceed the purchase price of the services and/or goods at issue in the dispute. In no event will the contractor be liable to the purchaser for any incidental, consequential or special damages, including without limitation lost revenues and profits, even if it has been advised of the possibility of such damages.
13. **Time Price Differential** - The Contract price stated in this contract assumes payment when due as stated herein. Any payment not made when due will accrue a time price differential for the privilege of paying in installments in an amount not exceeding 1.5% of the unpaid balance per month. The time price differential under this subsection shall be computed on all amounts unpaid thereunder from month to month, which need not be calendar months.
14. **Attorney Fees** - If Action Fence of Michigan Inc. requires the services of an attorney for enforcement of any provision of this agreement Purchaser agrees to pay Contractor's actual attorney fees.
15. **Notices** - All notices and other communications required or permitted under this agreement will be in writing and will be deemed given when delivered personally or by mail, addressed as follows: If to Action Fence of Michigan Inc. to 4248 Delemere Court, Royal Oak MI 48073. If to Purchaser to the name and address appearing on the front of this contract.
16. **Licensing Disclosures**
 - a. A residential builder or a residential maintenance or alteration contractor is required to be licensed under article 24 of Act 299 of the Public Acts of 1980, as amended, being sections 339.2401 to 339.2412 of the Michigan Compiled Laws. That an electrician is required to be licensed under Act No. 217 of the Public Acts of 1956, as amended, being sections 338.881 to 338.892 of the Michigan Compiled Laws. That a plumber is required to be licensed under Act No. 226 of the Public Acts of 1929, as amended, being sections 338.901 to 338.917 of the Michigan Compiled Laws.
 - b. No license is required for the work described in this contract by the state of Michigan.
17. **Action Fence** takes no responsibility for any damage to the cement or asphalt during installation of the Fence and or Gate.

NOTICE OF CANCELLATION

You may cancel this transaction, without any penalty or obligation, within 3 business days from the above date.
 If you cancel, any property traded in, any payments made by you under the contract or sale, and any negotiable instrument executed by you will be returned within 10 business days following receipt by the seller of your cancellation notice, and any security interest arising out of the transaction will be cancelled.
 If you cancel, you must make available to the seller at your residence, in substantially as good condition as when received, any goods delivered to you under this contract or sale; or you may if you wish, comply with the instructions of the seller regarding the return shipment of the goods at the seller's expense and risk.
 If you do make the goods available to the seller and the seller does not pick them up within 20 days of the date of your notice of cancellation, you may retain or dispose of the goods without any further obligation. If you fail to make the goods available to the seller or if you agree to return the goods to the seller and fail to do so, then you remain liable for performance of all obligations under the contract.
 To cancel this transaction, mail or deliver a signed and dated copy of this cancellation notice or any other written notice, or send a telegram to Action Fence of Michigan Inc at 4248 Delemere Court, Royal Oak MI 48073.
 I hereby cancel this transaction

(date)

(buyer's signature)

This line for
cancellation only.

(initial here)

C.H.

INITIAL HERE

2309/2310

Waste stop

Eton Street

Iron Gate

Villa Road

Lewis Court

Lewis Court

Lewis Court

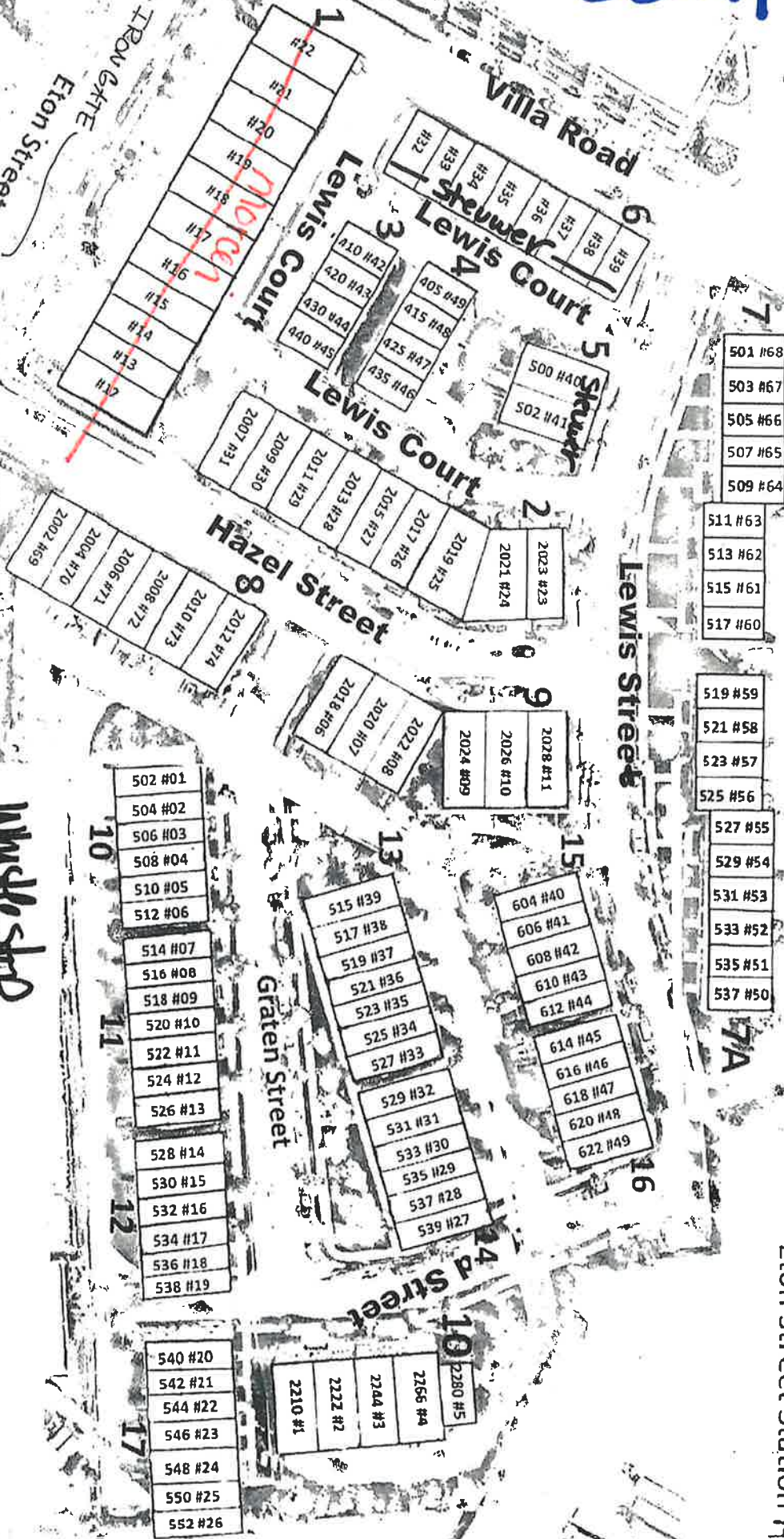
Hazel Street

Lewis Street

Graten Street

4d Street

Eton Street Station 1411





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Photo album created with [Web Album Generator](#)



September 30, 2020

Address Change Notice Group

RE: Address Addition Notification for: 2100 HAZEL STREET MAIN BLDG – ETON STREET STATION 2

The property owner of the property referenced above submitted an address addition request to the Community Development Department. The Building Department has approved the request in accordance with City Code Chapter 98, Article V, thereby creating the street number(s) as follows:

Note: City, Street, and Zip for all parcels: Birmingham, MI 48009

PARCEL NUMBER	PRIOR ADDRESS	NEWLY ASSIGNED ADDRESS
08-20-31-206-116		2100 HAZEL STREET MAIN BLDG
FOR PERMITTING PURPOSES ONLY		

The Building Department has updated the street number map on file in the Community Development Department in accordance with City Code Chapter 98, Article V, Section 98-118. Please update your records accordingly. Please do not hesitate contacting me if you have any questions concerning this change.

Best Regards,

Bruce R. Johnson
Building Official

Design Review Board Action List – 2020

Design Review Board	Quarter	Rank	Status
Redesign/Update DRB Board Applications	1 st (January-March)	1	<input type="checkbox"/>
Update Sign Ordinance	2 nd (April-June)	2	<input type="checkbox"/>
Create New Informational Artwork for Sign Ordinance	3 rd (July-September)	3	<input type="checkbox"/>
Sign Ordinance Enforcement	4 th (October-December)	4	<input type="checkbox"/>

Updates:

1. Updated Design Review application as of June 2020
 - a. Simplified, reformatted, and trimmed unnecessary sections
 - b. Updated PDF to be a fillable form
2. Sign Ordinance update in progress.