

MANISTEE CITY HISTORIC DISTRICT COMMISSION

Meeting of Thursday, December 1, 2016
3:00 p.m. - Council Chambers, City Hall, 70 Maple Street,
Manistee, Michigan

AGENDA

I Call to Order

II Roll Call

III Approval of Agenda

At this time the Historic District Commission can take action to approve the December 1, 2016 Agenda.

IV Approval of Minutes

At this time Historic District Commission can take action to approve the November 3, 2016 meeting Minutes.

V New Business

HDC-2016-24, Hollander Development, 400 River Street – Request for Certificate of Appropriateness

A request has been received from Hollander Development, 400 River Street for a Certificate of Appropriateness for demolition of the existing building to street level and construction of a three story building as submitted with plans on file.

At this time the Historic District Commission could take action on the request for a Certificate of Appropriateness from Holland Development, 400 River Street for demolition of the existing building to street level and construction of a three story building as submitted with plans on file.

Election of Officers

According to the By-Laws of the City of Manistee Historic District Commission their annual election of Officers is held at the December Meeting for the following year.

At this time the meeting will be turned over to Denise Blakeslee who will ask for nominations.

Chair

The Historic District Commission will select a Chair for 2017.

Vice-Chair

The Historic District Commission will select a Vice Chair for 2017.

Appointment of a Recording Secretary 2017

At this time the Historic District Commission shall appoint a Recording Secretary for 2017.

By Law Review

Annually the Historic District Commission shall review their By Laws at their regularly scheduled meeting in December.

At this time the Commission could take action to amend their By Laws if needed.

VI Old Business

Routine Repair and Maintenance

At this time the Historic District Commission will discuss the process for Routine Repair and Maintenance requests in the district and oversight by the Museum Director.

Expired Permits: 347& 349 River Street, Paula Rozmarek and 411 River Street, Jeff Gordon

Jeff Gordon met with Staff on August 29, 2016 to discuss outstanding permits for 347 & 349 River Street and 411 River Street. All of the permits have expired and staff is asking the Commission if they want to approve the extension of the permits.

At this time the Historic District Commission will discuss the expired permits for 347 & 349 River Street, Paula Rozmarek and 411 River Street, Jeff Gordon

Permit Review

At this time the Commission may take action to close out any outstanding permits.

VII Public Comments and Communications concerning Items not on the Agenda

At this time the Chair will ask if there are any public comments.

VIII Correspondence

At this time the Chair will ask if any correspondence has been received to be read into the record.

IX Reports

DDA Director
Museum Curator
Museum Director
Planning & Zoning Administrator

X Members Discussion

At this time the Chair will ask members of the Historic District Commission if they have any items they want to discuss.

XI Worksession

XII Adjournment



City of Manistee Planning & Zoning Administrator



MEMORANDUM

231.398.2805

Fax 231.723-1546

dblakeslee@manisteemi.gov

www.manisteemi.gov

TO: Historic District Commissioners

FROM: Denise Blakeslee, Planning & Zoning

DATE: November 23, 2016

RE: Historic District Commission Meeting December 1, 2016

Commissioners, the next Historic District Commission will be on Thursday, December 1, 2016. We have the following items on the agenda:

HDC-2016-24, Hollander Development, 400 River Street – Request for Certificate of Appropriateness - A request has been received from Hollander Development, 400 River Street for a Certificate of Appropriateness for demolition of the existing building to street level and construction of a three story building as submitted with plans on file. *The Thanksgiving Holiday creates a short work week, additional information for the request from Hollander Development was not included meeting packets because of staff time, I will be hand deliver those items on Monday.*

Election of Officers - According to the By-Laws of the City of Manistee Historic District Commission their annual election of Officers is held at the December Meeting for the following year.

Appointment of a Recording Secretary 2017 - At this time the Historic District Commission shall appoint a Recording Secretary for 2017.

Routine Repair and Maintenance - At this time the Historic District Commission will discuss the process for Routine Repair and Maintenance requests in the district and oversight by the Museum Director.

Expired Permits: 347& 349 River Street, Paula Rozmarek and 411 River Street, Jeff Gordon - Jeff Gordon met with Staff on August 29, 2016 to discuss outstanding permits for 347 & 349 River Street and 411 River Street. All of the permits have expired and staff is asking the Commission if they want to approve the extension of the permits.

If you are unable to attend the meeting please call me at 398-2805.

HISTORIC DISTRICT COMMISSION

Council Chambers, City Hall
70 Maple Street
Manistee, MI 49660

MEETING MINUTES

November 3, 2016

A Meeting of the Manistee City Historic District Commission was held on Thursday, November 3, 2016 at 3:00 p.m. in the Council Chambers, City Hall, 70 Maple Street, Manistee, Michigan.

Meeting was called to order at 3:04 p.m. by Chair Kracht.

ROLL CALL:

Members Present: Aaron Bennett, T. Eftaxiadis, Teena Kracht, John Perschbacher, Mary Russell, Lee Trucks

Members Absent: Vacancy

Others: Dan Bathrick (Dipkan Real Estate LLC, 397 River Street), Steve Hassevoort (In Form Architecture), Mark Fedder (Museum Director) Steve Harold (Museum Curator), Denise Blakeslee (Planning & Zoning Administrator) and others

APPROVAL OF AGENDA:

MOTION by John Perschbacher, seconded by Mary Russell that the Agenda be approved as prepared.

With a voice vote this motion approved unanimously.

APPROVAL OF MINUTES:

MOTION by Mary Russell, seconded by John Perschbacher that the Minutes of the October 6, 2016 Meeting be approved as prepared.

With a voice vote this motion approved unanimously.

NEW BUSINESS:

HDC-2016-21 – Dipkan Real Estate LLC, 397 River Street – Construct Shed roof on rear of building

A request for a Certificate of Appropriateness has been received from Dipkan Real Estate LLC for the construction of a new shed roof on the rear of the building and re-shingle existing shed roof as submitted with plan on file at City Hall. Dan Bathrick owner of the building reviewed the request with the Commissioners.

MOTION by T. Eftaxiadis, seconded by Lee Trucks that the Historic District Commission approves/denies the request from Dipkan Real Estate LLC, 397 River Street for the construction of a new shed roof on the rear of the building and re-shingle existing shed roof as submitted with application on file at City Hall.

With a roll call vote this motion passed 6 to 0.

Yes: Perschbacher, Eftaxiadis, Trucks, Russell, Bennett, Kracht
No: None

400 River Street, Hollander Development – Design Assistance

A request has been received from Hollander Development for Design Assistance to begin the discussion on materials and design for the proposed mixed use development project for the building at 400 River Street. Chair Kracht had contacted Rob McKay at SHPO to ask for assistance since the commission has never worked on a project of this magnitude in the past. Since SHPO hears appeals when there is a disagreement between an applicant and the HDC having jurisdiction over the project he was unable to offer comments on the application currently before the commission. Mr. McKay did attach three documents from other communities that had previously developed for infill projects. Copies were mailed electronically to the commissioners who had email and hard copies were printed for the commissioners that did not. Copies were also forwarded to the applicant.

Steve Hassevoort, In Form Architecture – reviewed a design for the building that included additional options from the application for design assistance.

Chair Kracht drafted a design worksheet to help with the review process focusing on items that were included in the infill samples supplied by Mr. McKay. A synopsis is as follows:

Height – discussed the height of the adjacent buildings; roof with a parapet similar to City Hall with asphalt shingles; how much of the roof will be seen from the street and other locations.

Relationship to the Street – reviewed the designs that showed the current building and proposed building and how it will look from various angles and from the sidewalk.

Continuity of Wall Surface – the plans shows that the building has a variety of insets to break up the appearance of a long wall, the commissioners liked the example of the main apartment entrance being set back from the sidewalk; balconies and storefront appearances were discussed.

Façade Composition – would like a stronger appearance on the corners of the building on river street; would like to see options to further define the building into sections.

Materials and Details - plan proposes brick and vinyl siding; discussed the use of materials and appearance; would like a stronger appearance on the corners of the building on river street; asked if there could be more definition on the rear of the building. The storefront windows should have bulkheads below.

Rhythm/Pedestrian Experience – Design showed how it would look for the pedestrian.

Assessment - Would like to see samples of proposed materials. Mr. Hassevoort will take the input from the Commissioners and work on an updated design for their review.

OLD BUSINESS

Routine Repair and Maintenance

The Museum Director asked for clarification from the Historic District Commission on Routine Repair and Maintenance requests and when they want him to forward requests to the Commission to review.

Due to the time, this item will be placed on a future agenda for discussion; in the meantime any request that the Museum Director has concerns about will be forwarded to the Commission.

Expired Permits: 347& 349 River Street, Paula Rozmarek and 411 River Street, Jeff Gordon

Due to the time, this item will be placed on a future agenda for discussion.

PUBLIC COMMENTS AND COMMUNICATIONS CONCERNING ITEMS NOT ON THE AGENDA

None

CORRESPONDENCE

None

STAFF REPORTS

Mark Fedder, Museum Director – Issued a permit to 80 Washington Street to change the trim color on exterior doors and wood trim from Forest Green to Almond to match the stone façade. This was issued permit #PHDC16-023.

Denise Blakeslee, Planning & Zoning Administrator – advised the Commission that the Historic Structures Report for the Manistee North Pierhead Light has been completed and thanked Steve Harold for all of his work on the restoration of the lighthouse.

MEMBERS DISCUSSION

Commissioner Eftaxiadis spoke of the need to establish policy/guidelines for infill buildings and thanked the members of City Council who attended the meeting.

Chair Kracht scheduled a worksession for November 17, 2016 at 3 pm in the Council Chambers to begin work on developing policy/guidelines for infill buildings.

The Next meeting of the Historic District Commission will be on Thursday, December 1, 2016 at 3:00 p.m. in the Council Chambers, City Hall, 70 Maple Street.

ADJOURNMENT:

MOTION by T. Eftaxiadis, seconded by Lee Trucks that the meeting be adjourned. Motion passed unanimously.

MEETING ADJOURNED AT 4:45 P.M.

MANISTEE HISTORIC DISTRICT COMMISSION

Denise J. Blakeslee, Recording Secretary

MANISTEE CITY HISTORIC DISTRICT COMMISSION

Council Chambers, City Hall
70 Maple Street, Manistee, Michigan

WORKSESSION NOTES

November 17, 2016

ROLL CALL

Members Present: Teena Kracht and Lee Trucks

Members Absent: Aaron Bennett (excused), T. Eftaxiadis (excused), John Perschbacher (excused), Mary Russell (excused), vacancy

Others: Mark Fedder (Manistee County Historical Museum), Steve Harold (Manistee County Historical Museum) and Denise Blakeslee (Planning & Zoning) and items

ITEMS FOR DISCUSSION

In-Fill Construction Guidelines/Policy – reviewed agenda packet and discussion included the following:

Strategies

- Which Strategies would be applicable to our District
 - **Literal Replication**
 - **Invention within a Style**
 - **Abstract Reference**

Guidelines

- Current guidelines vs Design Guidelines for New Construction in Historic Districts, A Publication of the Presentation Alliance for Greater Philadelphia
- If changes should be made to the Guidelines
- Any Changes would not apply to any requests that are currently before the commission
- Would like to add photos to guidelines
- Need to review update all guidelines, good project for this winter

Materials

- Types of materials that is expectable for projects
- Should these be included in the guidelines?
- How the location of the building and surround buildings impact the types of materials
- Vinyl vs EIFS (Dryvit)

Other

- Contributing Buildings vs Non-Contributing Buildings

Worksession adjourned at 4:00 pm.

MANISTEE HISTORIC DISTRICT COMMISSION

Denise J. Blakeslee, Recording Secretary

INFORMarchitecture

23 November 2016

Ms. Denise Blakeslee
City of Manistee Planning and Zoning
70 Maple Street
Manistee, MI 49660

RE: 400 River Street

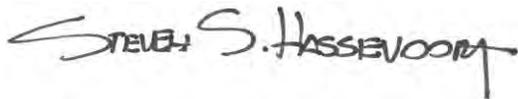
Dear Denise:

Please find attached our application for a Certificate of Appropriateness from the Manistee Historic District Commission for the proposed project at 400 River Street. We have included an updated project description and proposed sketches of the building. We are also working on a packet of information with specific information on major exterior materials, including windows, storefront framing, brick, siding, railing, awnings, etc. As we discussed, we will have this to you on Monday for distribution to the commission. We will have samples of many of these materials and products for review at the commission meeting next week.

As we discussed, we need approval of the overall concept of the design, including size and configuration, massing, relationship to the sidewalk, material types, window configurations, etc. to allow us to proceed with the more detailed design that will follow and to allow us to continue to pursue funding sources for the project. We are happy to come back to the commission with additional detail on final materials, colors, light fixtures, door hardware, signage, mortar color, coping details, etc. as this information is developed.

Please call me with any concerns you have regarding this project. We look forward to meeting with you and the commission on December 1.

Sincerely,



Steven S. Hassevoort, AIA, Managing Partner

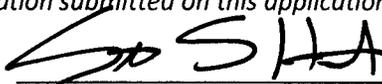


Historic District Commission
 Planning & Zoning Department
 70 Maple Street
 Manistee, MI 49660
 231.398.2805
www.manisteemi.gov

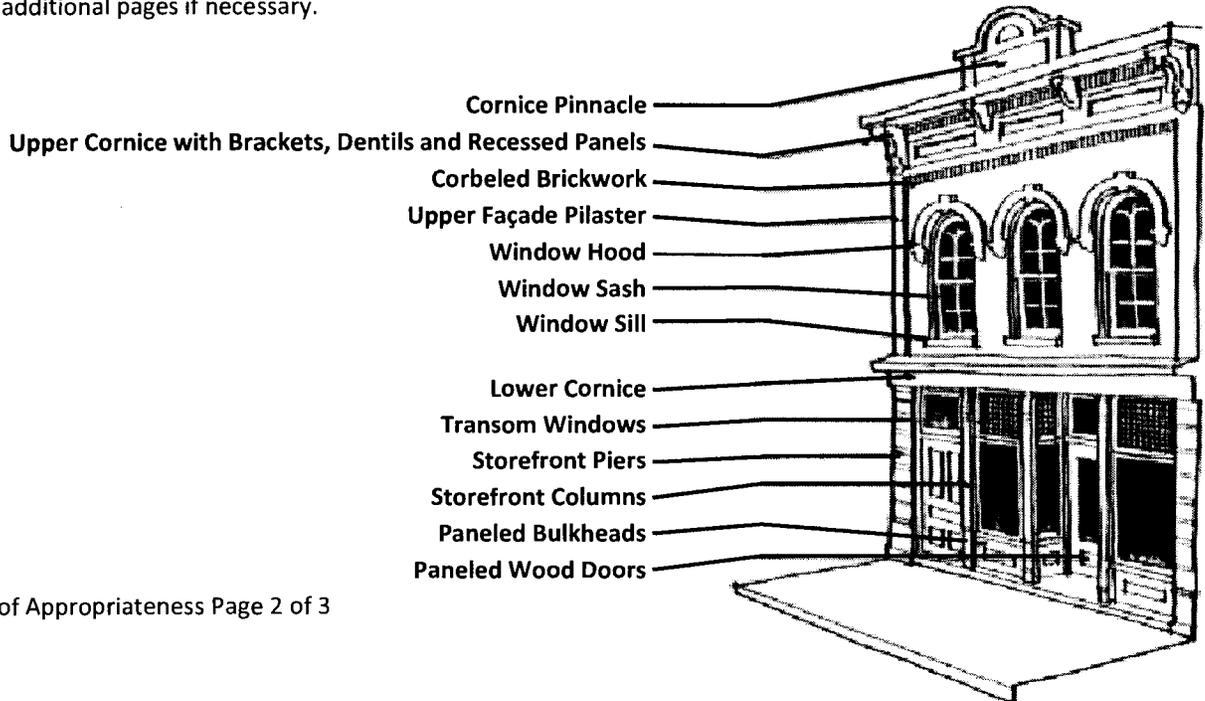
Application for a Certificate of Appropriateness

Please Print

Standards		
<p>If the owner of the property is interested in receiving tax credits, APPLICATION MUST BE MADE FIRST TO THE STATE HISTORIC PRESERVATION OFFICE. If original features are found during renovation or demolition, a project must be stopped until an emergency meeting of the Historic District Commission is held to determine if the feature is to be incorporated into the project. If the applicant applied for Tax Credits the State Historic Preservation Office must be notified also.</p>		
<p><input type="checkbox"/> This box must be checked by the applicant indicating that they have read and understood the requirements for tax credits and that a project may be stopped for review if original features are found during the course of the project. If this box is not checked the application will not be processed.</p>		
<p>Properties within the City of Manistee Historic District are subject to the City of Manistee Historic District Ordinance (Chapter 1280 Historic District of the Code of Ordinances). The purpose of the ordinance is to preserve and protect our historic resource. The Historic District Commission is established by the Ordinance, and has the authority to review and approve all work permit applications and plans for exterior property improvements within the Historic District. Regular building maintenance is permitted and encouraged; however, a work permit is required for all alterations, significant repairs, new construction, demolition, moving of buildings, and all other activities affecting the exterior appearance of buildings and properties within these districts. Please consult staff for guidelines and specific details on permissible work.</p>		
Submission of Application		
<p>This application must be received by the City at least 10 days prior to a regularly scheduled monthly Historic District Commission meeting. The meeting is held the first Thursday of the month at 3:00 p.m. in the Council Chambers, City Hall, 70 Maple Street, Manistee, Michigan unless it is a legal holiday. Applicants are strongly encouraged to conduct a preliminary discussion with staff and attend the meeting to explain the proposed work.</p>		
Property Information		
Address:	Parcel #	
Applicant Information		
Name of Owner or Lessee:		
Address:		
Phone #:	Cell#:	e-mail:
Name of Contractor (if applicable):		
Address:		
Phone #:	Cell#:	e-mail:
License Number:	Expiration Date:	
Application Requirements		
<p>The following information must be included with this application. Additional information may be required. The applicant must supply 12 copies of any items submitted that are in color. Paint colors, Signage and Awnings are approved under a separate application. The Historic District Commission requires a copy of the Building Plans for review and for file.</p>		
<input type="checkbox"/>	Current photo of the structure as seen from the street and where proposed work is to take place.	
<input type="checkbox"/>	Sketch, drawing or plans drawn to scale to show details and specification of ornamental features. Replacement doors, windows and lights require a copy of the specification sheet.	
<input type="checkbox"/>	A completed Certificate of Appropriateness Checklist.	
<input type="checkbox"/>	Replacement doors, windows and lights require a copy of the specification sheet.	

Description of Work			
<input checked="" type="checkbox"/> New Construction	<input type="checkbox"/> Rehabilitation/Restoration	<input checked="" type="checkbox"/> Addition	<input type="checkbox"/> Other (specify)
<p>Describe the proposed project</p> <p>Demolition of existing building above the street floor level and construction of a new three-story apartment building. Existing building foundation, basement and first floor plate will be reused.</p> <p>See submittal packet for additional information about the proposed project.</p>			
Proposed Start Date <u>2017</u>		Proposed Completion Date <u>2018</u>	
Incomplete requests will be returned to the applicant to supply needed information for review.			
Authorization			
<p><i>I hereby certify that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent, and we agree to conform to all applicable laws of the State of Michigan. All information submitted on this application is accurate to the best of my knowledge.</i></p>			
Applicant Signature: <u></u>		Date: <u>11/23/2016</u>	
<p>By Signing this form the Applicant/Owner certifies that on or before the date of completion of proposed work, my building will have a code compliant smoke detector or fire alarm system.</p>			
Office Use Only			
HDC - _____ - _____	Notes: _____		
Signature: _____		Date: _____	

This drawing depicts many of the types of historical decoration found in the Manistee Historical Business District. While all of the elements may not apply to your building this should assist in listing areas of renovation. The next page is a check list to assist in the application process. Please check all that apply to your project and give a brief explanation of proposed work. Use additional pages if necessary.



Certificate of Appropriateness Checklist

Check all of the Renovations that Apply to your project and give a brief explanation of the project attach additional sheets if necessary:

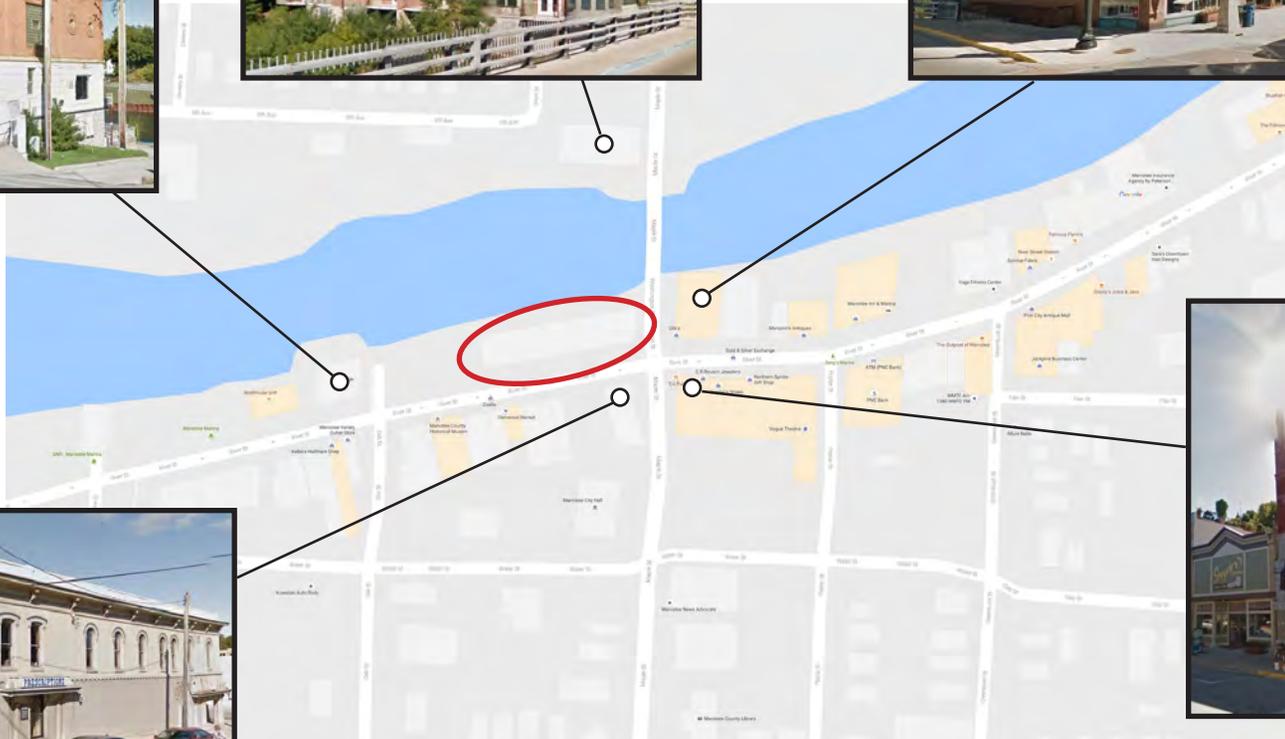
Example:

- Cornice Pinnacle: N/A
- X Upper Cornice Repair and replace with new materials. Wood will be used and painted to match exiting color scheme.
- X Corbeled Brickwork Clean using method prescribed in Preservation Brief #1 - Assessing Cleaning and Water-Repellent Treatment for Historic Masonry Buildings.

<input type="checkbox"/> Cornice Pinnacle	
<input type="checkbox"/> Upper Cornice	
<input type="checkbox"/> Corbeled Brickwork	
<input type="checkbox"/> Upper Façade Pilaster	
<input type="checkbox"/> Window Hood	
<input type="checkbox"/> Upper Windows	
<input type="checkbox"/> Lower Cornice	
<input type="checkbox"/> Transom Windows	
<input type="checkbox"/> Storefront Piers	
<input type="checkbox"/> Storefront Columns	
<input type="checkbox"/> Paneled Bulkhead	
<input type="checkbox"/> First Floor Windows	
<input type="checkbox"/> Doors	
<input type="checkbox"/> Other	

Proposed Redevelopment of

400 River Street Manistee, Michigan



Summary of Modifications from Design Assistance

The following is a brief summary of the significant modifications made to the design based on the input received from the City of Manistee Historic District Commission Design Assistance session on 3 November 2016.

- The center section of the River Street facade was recessed back off the sidewalk to create a small landscaped court. This interrupts the building line to create an appearance of two shorter buildings with a recessed “connector” rather than one longer one.
- The connector on the South facade was moved one bay to the east to align with the basement below.
- Brick masonry was extended to all three stories of the building at the southeast corner to create a stronger presence at the corner of River and Maple Streets.
- The bay spacing was modified slightly due to the apartment unit layouts within.
- The storefront facade was extended further north on the Maple Street facade.
- A low-pitched roof with integral gutters is proposed.
- Other minor modifications as shown on the following sketches.

Background

The current building at 400 River Street in downtown Manistee is a single story, synthetic plaster-clad building with approximately 13,000 SF of floor area on the first level. The lower level contains approximately 1,500 SF of utility and storage space. The east portion of the building dates back to the early 1960's and the west portion was constructed in approximately 1988. It is defined as a noncontributing structure to the City of Manistee Historic District.

The site is bounded by River Street on the south, Maple Street on the east, the Manistee River to the North and Oak Street to the west. There is a surface parking lot to the west of the building, that extends under the west portion of the building.



400 River Street - Manistee

Hollander Development Corporation

11.23.2016

Proposed Use

The proposed use for the property is for a mixed use structure containing retail and approximately 45 one-bedroom and two-bedroom residential units. The surface parking lot and parking under the building would remain.

Approach

The proposed approach to this project is to demolish the existing building above the first floor slab, leaving the building foundation, basement level and first floor structure intact. A new 3-story building will be built on the existing first floor structure. This approach was developed based on the following factors:

- The existing building has no historic significance
- A new building would allow more flexibility in layout to better accommodate the new uses.
- The existing exterior facade is in poor condition and is not in keeping with City of Manistee Historic District Guidelines

Design Narrative



When designing the new building for this site, we used the City of Manistee Historic District Guidelines and information discussed during our design assistance meeting on 11/3/16 as our guides. We are considering this building essentially an in-fill construction, but it also has the unique attribute of being essentially the end of the traditional downtown area on the north side of River Street. The property immediately to the west is the Elks meeting hall, then a one-story restaurant and the municipal marina.

Our approach to the design of this rather long building was to break the front facade into three sections, each with a unique, but related, design treatment. The palette of materials of brick, glass and horizontal siding remains consistent between the sections.

River Street Facade



Eastern Section of River Street Facade

The east-most section (at the corner of River and Maple) has commercial use on the street-level. The facade is brick and glass on the first two floor levels, and is broken up into bays of storefront windows separated by masonry pilasters. These bays are two stories tall to relate to the buildings across the street to the south. Awnings are used at the retail spaces to provide shading and a more pedestrian-friendly feel. The cladding material of the third story is changed to horizontal siding to reduce the apparent building height. The brick masonry continues on all three levels at the corner to define the intersection. Balconies for the residential units on this facade are in-set to avoid breaking the line of the facades. The rhythm, proportion and style of the double-hung windows get their cue from the windows on other downtown buildings.



400 River Street - Manistee

Hollander Development Corporation

11.23.2016

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IN • FORM Architecture

401 east michigan avenue suite 100 kalamazoo, MI 49008

t: 269.270.3331 www.informarchitect.com ©2016

Center Section of River Street Facade

The center section serves as a “connector” for the East and West portions of the building, and is the main entry for the residential units on all three levels. This section is all brick masonry and glass, is somewhat taller than the adjacent portions of the building and is recessed to create an entry court and to relieve the facade lines. This facade features a large inset entry to provide protection from the elements, similar to other buildings in the block to the east.



Western Section of River Street Facade

The west-most section is all residential. Brick is used on the first story level with horizontal siding on the upper two stories to begin to break down the scale as the downtown area comes to an end. Here again, the facade is broken down into bays to create a rhythm. The first floor residential units have an entry recessed from the sidewalk in a small alcove. These units also have a barrier-free entry off the interior corridor. The first story bedroom windows are set behind a French balcony treatment to provide a sense of privacy. Upper units feature an inset balcony, and double-hung windows.



Maple Street Facade

The facade facing Maple street is a continuation of the facade around the corner, with storefront windows and masonry piers.



River Facade

The facade facing the river is distinctly simplified, as was historically done. It consists of large double-hung windows and cantilevered balconies to add texture to the facade. This facade is cantilevered over the edge of the existing building structure to gain needed floor space without disturbing the adjacent grade. Cladding is horizontal siding. The basement level, which is exposed on this facade, will be used for a rental office and tenant amenities. The grade level of this facade is clad in brick, with the upper residential levels clad in horizontal siding.



West Facade

The West facade is a continuation of the west portion of the River Street facade, with a brick masonry base, horizontal siding upper levels and double-hung windows.





View Looking Northeast



View Looking Northwest



View from Maple Street Bridge



400 River Street - Manistee
Hollander Development Corporation
11.23.2016



400 River Street - Manistee
Hollander Development Corporation
11.23.2016







Hollander Development Corporation is a leader in the development of affordable, high-quality apartment communities for families and seniors throughout Michigan. Since the creation of our company in 1979, we have successfully developed over 3,000 units of affordable housing.

We take pride in creating apartment communities with architectural distinction and a focus on sustainability. We work closely with the project design team to create housing developments with curb appeal, comfortable and efficient floor plans, desirable resident amenities, site plans which are sensitive to the surrounding neighborhood, and low environmental impact. We are a member of the U.S. Green Building Council and our portfolio includes multiple LEED certifications.

Our careful planning and attention to detail throughout the development process results in properties that enhance the community. Our properties offer attractive housing options to employers who are moving into or expanding within a locality and are looking for affordable housing for their employees. In many cases, our properties help to upgrade the local housing stock and encourage neighborhood revitalization activities.

IN • FORMarchitecture

InForm Architecture is a collaborative architectural practice based in Kalamazoo with on-going projects throughout western Michigan. We have significant experience with historic and adaptive-reuse projects in urban settings, and strive to design with sensitivity to a building's context and environment.

Our team for this project is led by Steve Hassevoort, AIA, the managing partner of the firm. Steve has over 30 years experience in the profession and is on the Michigan State Historic Preservation Office List of Historical Architects. He also sits on the board of the Western Michigan Chapter of the U.S. Green Building Council, the City of Kalamazoo Downtown Design Review Committee and the Downtown Kalamazoo Incorporated Project Review Committee.

CITY OF MANISTEE
HISTORIC DISTRICT COMMISSION
BY-LAWS AND RULES OF PROCEDURES

1. **AUTHORITY**

These By-laws and Rules of Procedures are adopted by the Historic District Commission of the City of Manistee, County of Manistee, (hereinafter referred to as the Commission) pursuant to Public Act 169 of 1970, as amended, the Local Historic Districts Act; the City of Manistee Codified Ordinance, and the Public Act 267 of 1976, as amended, the Open Meetings Act.

2. **OFFICERS**

2.1 **Selection.** At the December meeting, the Historic District Commission shall elect a chair, vice-chair and appoint a recording secretary who shall serve for the next twelve (12) months and who shall be eligible for re-election. Vacancies in an office of the Commission shall be filled at the next regular meeting of the Commission. The membership shall elect one of its members to fill the vacancy until the next annual election.

2.2 **Duties.** The chair shall preside at all meetings and shall conduct all meetings in accordance with the rules provided herein and sign all official documents.

The vice-chair shall act in the capacity of the chair in the absence of the chair or in the event of a vacancy in the office of chair; in which case, the Commission shall select a successor to the office of vice-chair at the earliest practicable time.

The Recording Secretary shall be responsible for execution of documents in the name of the Historic District Commission, the preparation of minutes, keeping of pertinent public records, delivering communications, reports, and related items of business of the Commission, issuing notices of public hearings and performing related administrative duties to assure efficient and informed Commission operations. In the event the Recording Secretary is absent, the chair or acting chair shall appoint a temporary recording secretary for such meeting.

2.3 **Tenure.** The officers shall take office at the first regularly scheduled meeting immediately following their election. They shall hold their office for a term of one year, or until their successors are elected and assume office.

3. **MEETINGS**

3.1 **Meeting Notice.** Notice of all meetings shall be posted at City Hall by December 31st of each year. The notice shall include the date, time and place of the meeting. Any changes in the date or time of the regular meetings shall be posted and noticed in the same manner

as originally established. When a regular meeting date falls on or near a legal holiday, the Commission shall select suitable alternate dates in the same month, in accordance with the Open Meeting act.

3.2 Commission Absences. In order to maintain the maximum participation of all appointed Historic District Commission members at all scheduled meetings, the following is the attendance guide and Commissioner replacement policy for "excused" or "unexcused" absences:

1. When appointed, each Commissioner should state his/her willingness and intention to attend each scheduled meeting of the Historic District Commission.
2. In the event of unplanned personal matters, business trips, family vacation trips, changed job requirements, sickness, or other physical disabilities that prohibit the Commissioner from attending the scheduled meeting; the Commission Chair or staff Liaison to the Historic District Commission should be notified as soon as possible prior to the time of the scheduled meeting of their inability to attend. The Commissioner upon this notification will receive an "excused absence" for the involved scheduled meeting.
3. If any Commissioner is absent from three (3) consecutive scheduled meetings without an "excused absence" for any of the three (3) meetings, the Commissioner shall be reported in writing to the City Manager. The City Manager will contact the Commissioner in writing and question his/her continued ability or interest in being on the Commission, giving the member a chance to rectify the attendance issue or submit a resignation.
4. There will be no limit on the number of consecutive "excused absences" for any Commissioner. However, if the Commissioner is repeatedly absent for at least 50% of the yearly scheduled meetings, that member will also be reported in writing to the City Manager. The City Manager will contact the Commissioner in writing and question the member's continued ability or interest to be on the Commission. The Commissioner will be considered for an appointment nullification when the absences total six in the calendar year.
5. The appointment nullification action would be initiated by the City Manager and forwarded on to the City Council for official action.

3.3 Special Meetings. A special meeting may be called by the Chair, or three members of the Historic District Commission upon written request to the Recording Secretary. The business which the Historic District Commission may perform shall be conducted at a public meeting of the Historic District Commission held in compliance with the Open meeting Act. Public Notice of the time, date, and place of the special meeting shall be given in a manner as required by the Open Meeting act, and the Recording Secretary shall provide notice to commission members by writing, telephone, or e-mail.

3.4 Quorum. In order for the Commission to conduct business or take any official actions, a

quorum consisting of at least a majority of the appointed Commissioners shall be present. When a quorum is not present, no official action, except for the closing of the meeting may take place. The members of the commission may discuss matters of interest, but shall take no action until the next regular or special meeting. All public hearings without a quorum shall be scheduled for the next regular or special meeting and no additional public notice is required provided the date, time and place is announced at the meeting.

3.5 Public Hearings. Hearings shall be scheduled and due notice given in accordance with the provisions of the Acts and Ordinance cited in Section 1. Public hearings conducted by the Historic District Commission shall be run in an orderly and timely fashion. This shall be accomplished by the following procedure.

1. The Chair of the Historic District Commission shall announce that a public hearing will be conducted on a request.
2. The Chair shall read the public hearing announcement as published in the newspaper and give a brief description of the hearing subject and the public notice procedure.
3. The Chair shall announce the following hearing rules:
 - a. The Chair will recognize each speaker. When a speaker has the floor, he/she is not to be interrupted unless time has expired. Persons speaking without being recognized shall be out of order.
 - b. Each speaker shall state their name and address for the record and may present written comments for the record.
 - c. Speakers shall address all comments and questions to the Historic District Commission and comments will be limited to the subject matter of the Public Hearing.
 - d. Unless waived by the Historic District Commission for a specific meeting or a specific speaker, public comment shall be limited to five (5) minutes per speaker, one time only. If a group of people wish to be heard on one subject, a spokesperson may be designated who may request that more than five (5) minutes be permitted for collective comments of the group as presented by that speaker.
 - e. The Chair may require that repetitive comments be limited or abbreviated in the interest of saving time and allowing others to speak. Everyone shall have an opportunity to speak before someone is allowed to speak a second time.
 - f. The Chair may establish additional rules of procedure for particular hearings as he/she determines appropriate.
 - g. Normal civil discourse and decorum is expected at all times. Applause, shouting, outbursts, demonstrations, name-calling or other provocative speech or behavior may result in removal from the hearing or an adjournment.
4. Once all public comments have been stated, the Chair shall close the hearing. Any voting member of the Historic District Commission may initiate a motion to close the hearing.
5. Public Hearings shall be carried out in the following format:

- a. The Chair shall open the hearing.
 - b. The Applicant shall present any comments and explanation of the case. Applicant's presentation shall not be subject to the five (5) minute limitation.
 - c. The City staff and any consultants serving the City shall present their reports.
 - d. The hearing will be opened for public comment.
 - e. The public comment period will be closed.
 - f. Deliberation and discussion by the Historic District Commission.
 - g. Disposition of the case by the Historic District Commission.
- 3.6 Motions. Motions shall be restated by the Chair before a vote is taken. The name of the maker and supporter of each motion shall be recorded.
- 3.7 Voting. An affirmative vote of the majority of those members present shall be required for the approval of any requested action or motion placed before the Commission. Voting shall ordinarily be by voice vote; provided however that a roll call vote shall be required if requested by any Commission member or directed by the Chairperson. All members of the Commission including the Chairperson shall vote on all matters, but the Chairperson shall vote last.
- 3.8 Order of Business. A written agenda for all regular meetings shall be prepared.
- 3.9 Rules of Order. All meetings of the Commission shall be conducted in accordance with generally accepted parliamentary procedure as adopted by City Council for all Boards and Commissions within the City of Manistee.
- 3.10 Agenda Items. For an item to be considered at a regular Historic District Commission meeting, it must be submitted to the City no later than the established policy of the City prior to the next scheduled Historic District Commission Meeting.
- 3.11 Conflict of Interest:
1. As used here, a conflict of interest shall at a minimum include, but not necessarily be limited to, the following:
 - a. A commission member issuing, deliberating, voting or reviewing a case concerning himself.
 - b. A commission member issuing, deliberating, voting or reviewing a case concerning work on land owned by himself.
 - c. A commission member issuing, deliberating, voting or reviewing a case involving a corporation, company, partnership, or other entity in which he is a part owner, or any other relationship where he may stand to have a financial gain or loss.
 - d. A commission member issuing, deliberating, voting or reviewing a case which is an action which results in a pecuniary benefit to himself.
 - e. A commission member issuing, deliberating, voting or reviewing a case concerning

- his spouse, children, step-child, grandchildren, parents, brother, sister, grandparents, parents in-law, grandparents in-law or member of his household.
- f. A commission member may consider the possibility of declaring a conflict of interest if his/her home falls within a notification radius used for a Public Hearing. Because the sending of the notice automatically presumes some degree of interest, this fact should be recognized by declaring a conflict, particularly if a financial impact is likely.
 - g. A commissioner who feels, in his/her judgement that his/her job, scope of duties and/or position may be at risk, pending the outcome of the permitting process.
2. A commission member shall, when he/she has a conflict of interest do the following immediately, upon the first review of the case and determining a conflict exists:
- a. declare a conflict exists at the beginning of the meeting where the case appears on the agenda, or when the topic brought up so such declaration is recorded in the minutes, and
 - b. refrain from participating in the discussion, site inspection or review of the case, except where specific information has been requested by the commission, and
 - c. refrain from casting a vote on any motion having to do with the case.

4. MINUTES

- 4.1 Preparation. Commission minutes shall be prepared by the Recording Secretary of the Commission. The minutes shall contain a brief synopsis of the meeting, including a complete restatement of all motions and recording votes; complete statement of the conditions or recommendations made on any action; and recording of attendance. All communications, action and resolutions shall be attached to the minutes.

5. OPEN MEETINGS AND FREEDOM OF INFORMATION PROVISIONS

- 5.1 All meetings of the Commission shall be open to the public and held in a place available to the general public.
- 5.2 All deliberations and decision of the Commission shall be made at a meeting open to the public.
- 5.3 A person shall be permitted to address a hearing of the Commission under the rules established in subsection 3.5, and to address the Commission concerning non-hearing matters at the time designated for such comments.
- 5.4 A person shall not be excluded from a meeting of the Commission except for breach of the peace, committed at the meeting.
- 5.5 All records, files, publications, correspondences, and other materials are available to the public for reading, copying, and other purposes as governed by the Freedom of Information Act.

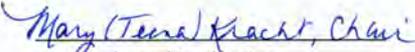
6. ANNUAL REVIEW OF BY-LAWS

The Commission shall annually review their By-Laws at the regularly scheduled meeting in December.

7. AMENDMENTS

These rules may be amended by the Commission by a concurring vote subject to subsection 3.7, during any regular meeting, provided that all members have received an advanced copy of the proposed amendments at least three (3) days prior to the meeting at which such amendments are to be considered.

I HEREBY CERTIFY that the above Bylaws were adopted the 4th day of February 2016.

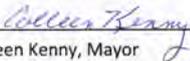

Mary (Teena) Kracht, Chair

[Annotation: As approved by the City Council at their June 2, 2009 Meeting - Council authorized the bylaw amendments for all Boards and Commissions to include the new Board Absences language; directed all boards or commissions to implement and follow these changes as Council has requested; and authorized the Mayor to sign the amended bylaws.]

[Annotation: On February 4, 2016 the Historic District Commission amended Section 6 Annual Review of By-Laws was amended for the annual review of the by-laws to take place in December instead of January]

Approved by the City of Manistee Council

2/16/16
Date


Colleen Kenny, Mayor



City of Manistee Planning & Zoning Administrator



MEMORANDUM

231.398.2805

Fax 231.723-1546

dblakeslee@manisteemi.gov

www.manisteemi.gov

TO: Historic District Commissioners

FROM: Denise Blakeslee, Planning & Zoning

DATE: November 23, 2016

RE: Historic District Commission Meeting **December 1, 2016**

Commissioners, the next Historic District Commission will be on Thursday, **December 1, 2016**. The previous memo had the November meeting date on it by mistake.

Additional information has been received in response to the Hollander Development request as was noted in your meeting packets. Due to printer issues the information has been printed in black in white. The applicant will be bringing color samples to the meeting.

See you Thursday!

Exterior Materials & Projects Specifications

400 River Drive – Manistee, Michigan
Hollander Development Corporation
11.28.16

Brick Masonry

Sioux City Brick – Monarch Velour Modular**
Glen-Gery Thin Tech system
Mortar Color to be determined

Siding

Exterior Portfolio Premium Pointe 4.5" Dutchlap**
Premium Vinyl - 0.46" thickness
Color: Graphite

Windows

North Star Windows – Series 4000/5000 Aluminum/Vinyl- Hybrid Double Hung and Casement**

OR

Anderson 100 Series Single Hung and Casement**

OR

Pella Impervia Fiberglass Single Hung and Casement**

Exterior color: Black

Single-hung window: 1 over 1 – clear insulated low-e glazing
Typical size approximately 36" x 66"

Casement: Single pane – clear insulated low-e glazing
Sizes vary

Patio Doors

Therma-Tru Smooth-Star fiberglass swing doors
36" x 80" swing door with full glass – no grilles
Clear low-e glazing
Color: Painted – color to be determined

Storefront Framing and Doors

Aluminum framing: Tubelite 14000 Series 2" x 4-1/2" typical frame member**
Glazing: 1" clear insulated low-e glazing
Aluminum Finish: Black Anodized
Doors: Narrow stile doors with clear insulated low-e glazing

Roofing

Asphalt Shingles: Certainteed Landmark** – color: Charcoal Black
4/12 roof pitch – hip

Railings

Superior Aluminum Railing systems or equal – custom built
Color: Black

Awnings

Custom aluminum frame with Sunbrella brand Fabric or equal
Color to be determined

Light Fixtures

To be determined – but will be dark-sky compliant

**Indicates that a sample will be available for review at the 12.01.16 Historic District Commission meeting

BRICK INFORMATION



Technical Information Where To Buy

712-202-1100

Search



HOME PRODUCTS IDEA GALLERY LITERATURE ABOUT US NEW CONTACT US JOBS

Color Range

[All \(129\)](#)

[Black \(4\)](#)

[Brown \(36\)](#)

[Buff \(8\)](#)

[Burgundy \(10\)](#)

[Gray \(22\)](#)

[Orange \(10\)](#)

[Pink \(18\)](#)

[Red \(33\)](#)

[Tan \(18\)](#)

[White \(9\)](#)

Idea Gallery

[Architectural \(141\)](#)

[Residential \(90\)](#)

[Color Combinations \(34\)](#)

[Custom Blends \(7\)](#)

[Award Gallery \(16\)](#)

Brick Sizes

[Brick Size Chart](#)

Color Series

[Aztec \(6\)](#)

[Brown, Burgundy, Ironspot \(14\)](#)

[Buff, Gray, Tan, Pink \(21\)](#)

[Centennial Collection \(5\)](#)

[Charleston Texture \(8\)](#)

[Colonial Smooth Ironspot \(12\)](#)

[Monticello \(10\)](#)

[Natural Ironspot \(12\)](#)

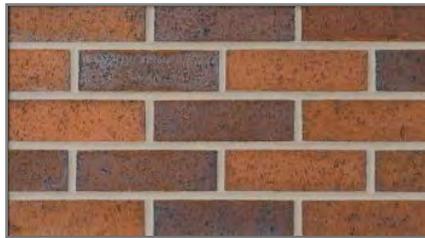
[Red, Red Range \(15\)](#)

[Sanded Architectural \(4\)](#)

[Savannah Texture \(3\)](#)

[Western \(Flashed\) \(3\)](#)

Monarch



[View larger image](#)

Specifics

Size: 12 Inch Utility, Closure, Modular, Norman

Textures: Smooth, Velour

Plant: Sergeant Bluff, IA



Okoboji Bank - [view gallery](#)





THIN TECH®

Leading the Way in Thin Masonry Support Technology



glengery.com

Glen-Gery Thin Tech® is a mechanical support and spacing panel for thin masonry veneers. The strongest, most durable thin veneer panel system



ever designed. Each thin brick, tile or stone is supported by our

patent pending support ties that mechanically interlock the masonry veneer to the panel.

FEATURES & BENEFITS

Patent pending support tie configuration placed on a 76 degree angle

- Allows the mortar to surround the support tie creating a positive masonry lock between the brick mortar and panel

G-90 galvanized and thermal set coating

- Provides barrier rust prevention
- Light color helps reflect and evenly distribute heat

Stucco embossed texture

- Provides a built-in weep system on both sides of panel for moisture control
- Creates greater surface area for maximum adhesion between veneer and panel

26-gauge architectural grade steel

- High fastener pull-through strength for panel support and integrity
- Harden steel sheets help brace wall, minimizing wall racking
- Allows fastening anywhere through the panel for even weight distribution or loading on the wall, using industry standard fasteners

Lightweight design

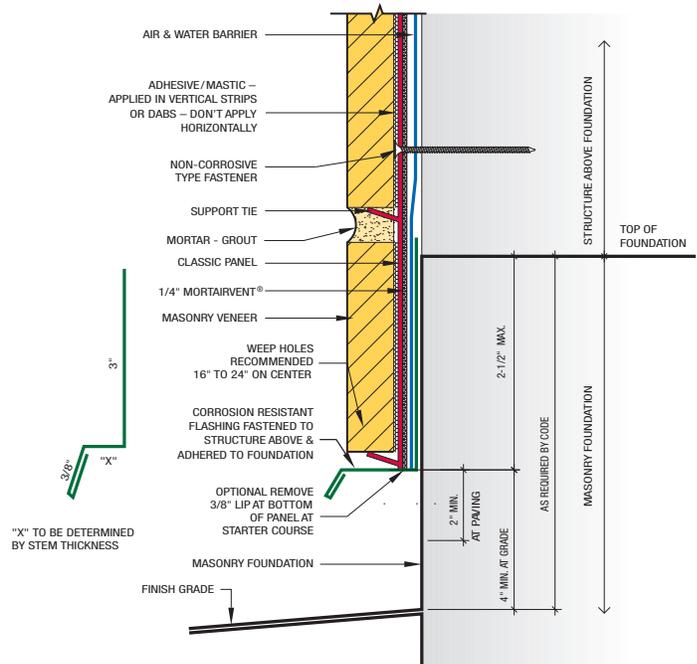
- Reduces footings and lintel requirements
- Cost-efficient wall design
- Reduced labor costs

Glen-Gery Thin Tech® is available in Classic and Elite series

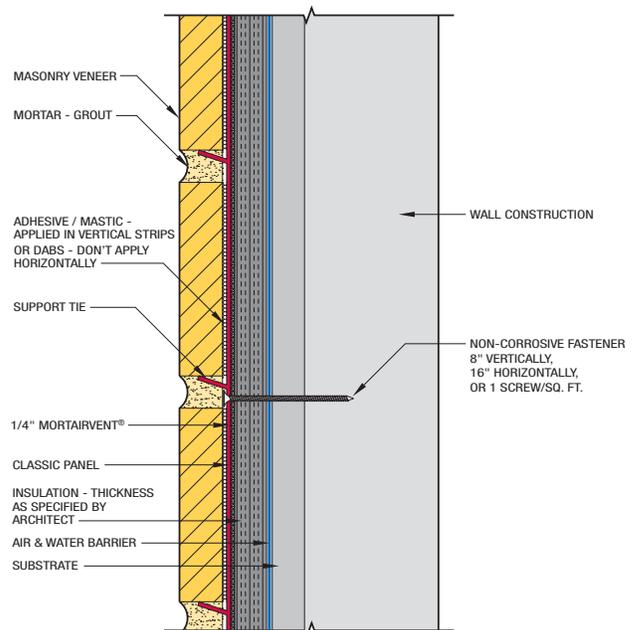
GLEN-GERY THIN TECH® CLASSIC SERIES

Your traditional choice with our patent pending locking support tie.

Base Detail – Classic



Wall Section – Classic (with insulation)



ries. Each series offers multiple face heights of support ties allowing for maximum design flexibility.

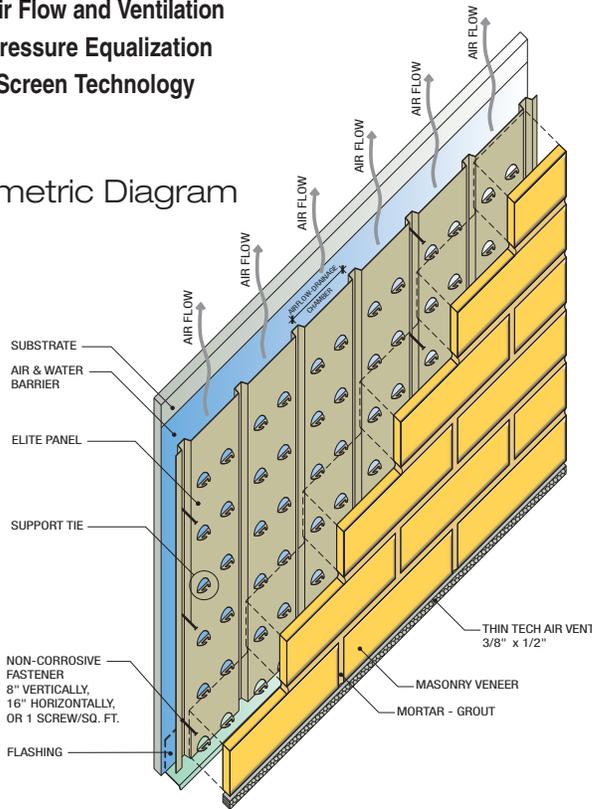
GLEN-GERY THIN TECH® ELITE SERIES – the most advanced masonry support system ever designed

Your choice for superior performance while maintaining all the features and benefits of the Classic Series.

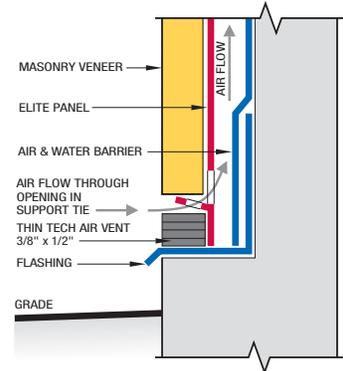
Glen-Gery Thin Tech® Elite provides a true screen-drained wall system with:

- Superior Drainage**
- Superior Bond Strength**
- Superior Air Flow and Ventilation**
- Superior Pressure Equalization**
- Plus Rain Screen Technology**

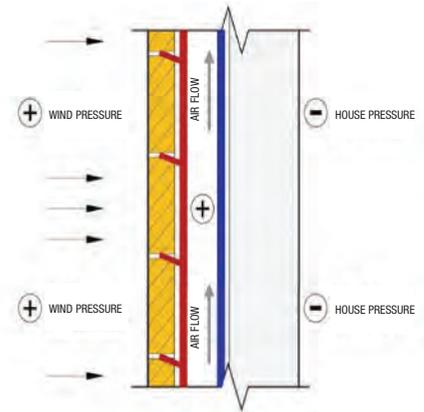
Axonometric Diagram



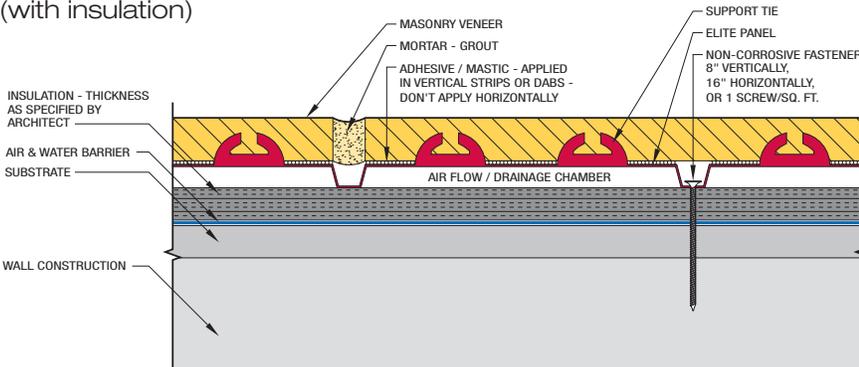
Air Flow & Ventilation Diagram



Air Pressure Diagram



Plan View – Elite (with insulation)

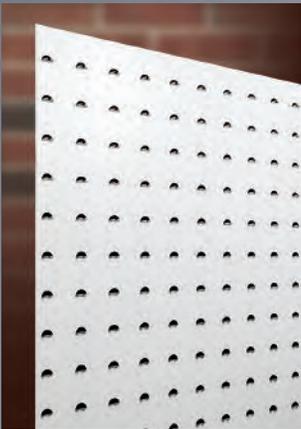


Wind is one of the main contributing forces causing rain penetration in a building. When wind blows on the face of a building, it forces water through even the smallest opening. A wall utilizing rain screen technology is designed to counteract the pressure of the wind. When wind hits the Glen-Gery Thin Tech® "Elite" wall it forces air into the airflow chambers, causing the chambers to reach the same pressure as the wind; thus the net pressure difference across the cladding is near zero. As a result, the wall pressure is equalized and the driving force for pressure-induced water penetration is eliminated.

Leading the Way in Thin Masonry Support Technology

GLEN-GERY THIN TECH® ACCESSORIES

Glen-Gery continues to lead the way in thin masonry support technology by stocking a full line of high-quality accessories. These accessories are recommended for the Elite and Classic Series panel systems and available through our authorized Thin Tech® distribution network.



Thin Tech Support Tie Ledge Panel

Pre-punched panels are available in Classic (shown above) and Elite Series in multiple face heights of support ties that correspond with specific brick sizes allowing for maximum design flexibility.



Thin Tech Pre-Bent Corner Panel

Pre-punched and pre-bent corner panels available in Classic and Elite (shown above) Series allow for ease of installation at outside corners and continuous insulation.



Adhesive

HD construction adhesive designed for a wide range of construction applications and ideal for metal, brick, concrete and most large panel type substrates.



Thin Tech Shim

Used with Elite panels to maintain a solid panel surface when the installation requires the panel to be cut outside the vertical channels.



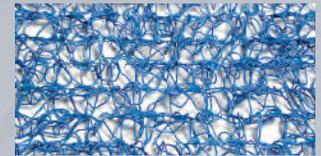
Starter Angle

Available in 24-gauge stainless steel. Starter angles are to be installed at base, floor lines, windows and doors.



Thin Tech Air Vent

Used with Elite panels at the starter angle or above window and door openings improving aesthetics while maintaining proper water drainage and ventilation.



Mortairvent®

Mortairvent®, a mortar deflection, drainage and ventilation system specifically designed for use with masonry veneer applications.

Fasteners



Pan head, square drive fasteners available in multiple sizes for steel, wood or concrete.



Glen-Gery Type N or Type S Preblended Mortar

Glen-Gery mortars are high-performance factory blends of Portland cement, hydrated lime, and mason's sand meeting ASTM C-144.

Product	Size	Weight	Packaging	Coverage (Approximate)
Thin Tech Support Tie Ledge Panel* (Classic or Elite)	48" x 48" (nominal)	16 lbs. ea.	As needed	16 sq. ft./panel
Thin Tech Pre-Bent Corner Panel* (Classic or Elite)	48" x 16" x 32" (48" nominal)	16 lbs. ea.	As needed	16 sq. ft./panel
Thin Tech Shim	4' lengths	.4 lbs. ea.	As needed	4 linear ft./piece
Starter Angle	10' lengths	3.5 lbs. ea.	As needed	10 linear ft./piece
Thin Tech Air Vent	4' lengths	.75 lbs. ea.	As needed	4 linear ft./piece
Adhesive	29 oz. tube	3 lbs. ea.	12 tubes/case	16 sq. ft./tube**
Mortairvent® (.25 in./6mm)	39" x 61.5'	14 lbs.	As needed	200 sq. ft./roll
Glen-Gery Preblended Mortar	80 lb. bag	80 lbs. ea.	As needed	80 sq. ft./bag***
1-1/2" Pan Head Square Drive Screw for Steel	#10 x 1-1/2"	17 lbs.	1700/Box	1700 sq. ft./box
3-1/2" Pan Head Square Drive Screw for Steel	#10 x 3-1/2"	17 lbs.	850/Box	850 sq. ft./box
1-1/2" Pan Head Square Drive Screw for Wood and Concrete	3/16" x 1-1/2"	17 lbs.	1700/Box	1700 sq. ft./box
3-1/2" Pan Head Square Drive Screw for Wood and Concrete	3/16" x 3-1/2"	17 lbs.	850/Box	850 sq. ft./box

*Support tie spacing in following sizes: brick – 2-5/8", 3-1/8", 3-3/8", 4"; stone – 8", 12", 16", 24". Available support tie sizes: 3/8" (standard), 5/8" and 7.5 mm

Corner brick will require 50% more adhesive • *Coverage will vary depending on brick or stone



800.854.4780
glengery.com



A wine cellar with brick walls, wooden wine racks, and a bar area. The walls are made of red brick with a decorative pattern. The ceiling is dark wood with recessed lighting. The floor is made of large, irregular stone tiles. On the left, there are wooden wine racks filled with bottles. In the center, there is a bar area with a wooden countertop, a framed picture of a street scene, a bottle of wine, and some decorative items. On the right, there are more wooden wine racks.

THIN BRICK

Truly amazing product diversity



Glen-Gery

PRODUCT DIVERSITY

Glen-Gery Thin Brick is a compelling alternative developed to give architects, engineers, builders and homeowners a choice that expands their design potential by eliminating certain restrictions. Its ageless appeal can be a defining element when building plans or other factors may not permit the use of standard brick masonry. Now the beauty of brick's signal impression has a wider range of applications. Thin Brick will open up great possibilities to enhance internal or external walls and design elements.



Thin Brick provides the same uniformity and quality that is the standard for our full size facebrick.



The diversity of Glen-Gery Thin Brick is emblematic of the company's leadership in brick manufacturing and building innovation.



Glen-Gery offers Thin Brick in the widest variety of colors, textures and overall appearance for endless design possibilities.

Glen-Gery Thin Brick benefits:

Reduced fuel and energy use minimizes energy costs in manufacturing and transportation.

Reduced wall costs are possible because there are no shelf angles, lintels, support ledge, etc.

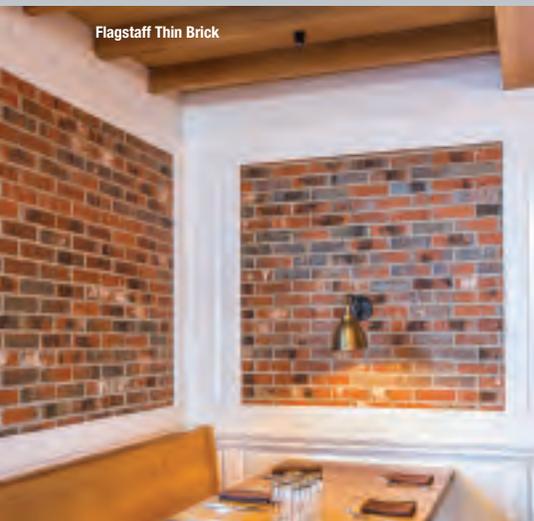
Increased sustainability means decreased use of raw materials and increased quarry life.

It provides an alternative to other materials and presents a genuine brick appearance.

It requires less structure, which means it will be a lighter load with less seismic concerns.

Less job site impact allows for a cleaner work environment with less materials.

Easier installation allows for a greater labor pool, with 15-20 percent fewer man-hours required for comparable square footage.



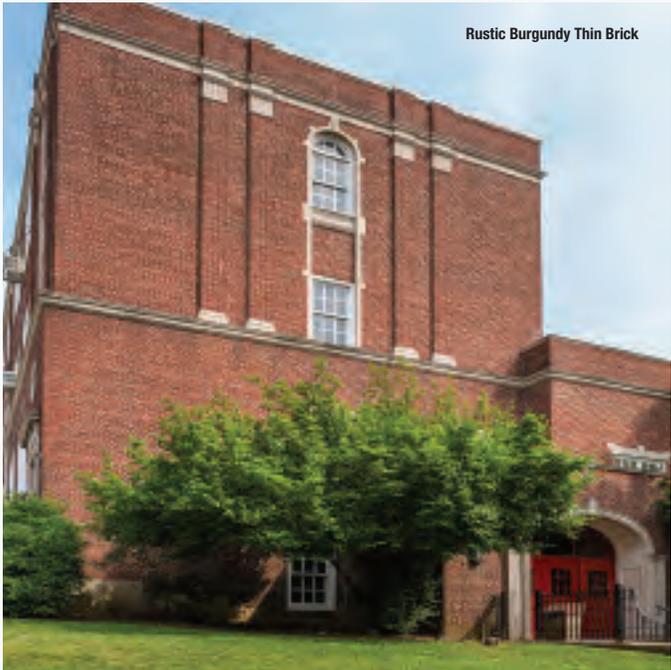


Nob Hill Thin Brick

A variety of applications

Extending brick's essential versatility, Thin Brick yields superior value at a manageable cost. It excels in a practically unlimited array of architectural settings. Designers who want the inimitable appeal of brick can achieve it even under sometimes constrained budgets for schools, offices, hospitals, apartments/condos, restaurants, malls, and the remodeling of homes with existing siding.

Commercial or residential, indoors or outdoors, for kitchens, basements, accent walls, fireplaces, ceilings and more, this product delivers the presence, permanence and sustainability of standard thicknesses. The choice need not be brick or something less. This is the compelling alternative that puts real brick within reach for countless applications.



Rustic Burgundy Thin Brick

RESIDENTIAL PROJECTS

Glen-Gery Thin Brick meet the requirements of a broad spectrum of projects—residential or commercial, interior or exterior. The choices and options are nearly endless, making it the pick of architects, engineers and homeowners who want greater design flexibility in a cost-effective product with brick's longstanding endurance.



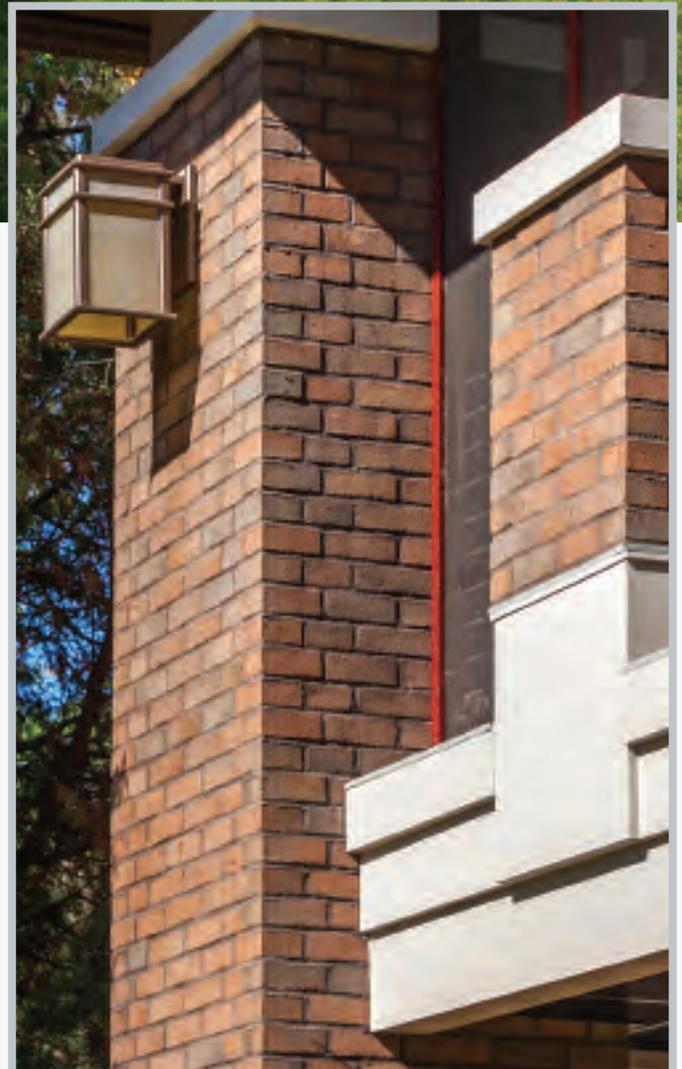
Flagstaff Thin Brick
with Thin Tech® masonry support

Red Colonial Thin Brick (Norman)





Cedar Lake Thin Brick



Glen-Gery Thin Brick will add a beautiful dimension to any building or remodeling project.

COMMERCIAL PROJECTS

From multi-story apartment complexes to office buildings, shopping centers and additions, Glen-Gery Thin Brick is the premier building material.



Arbor Rose Thin Brick
and Rustic Burgundy
Thin Brick (accents)



Milwaukee Thin Brick
with Thin Tech® masonry support

Rustic Burgundy Thin Brick



INSTALLATION METHODS

Adhesive application

(interior only)

When Glen-Gery Thin Brick is used for interior walls, kitchens, fireplaces and distinctive design elements like backsplashes, installers can use adhesive applications with either masonry/concrete backing or wood/steel stud framing.



Adhesive interior installation on wood/steel stud framing.

Mortar application

Mortar can be used for both interior and exterior applications on masonry/concrete and also on wood/steel stud framing where moisture is not a concern.



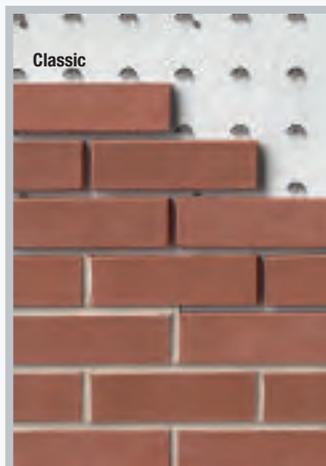
Interior or exterior mortar application on masonry or concrete.

Glen-Gery Thin Tech®

Glen-Gery Thin Tech® is a mechanical support and spacing panel for thin masonry veneers. The strongest, most durable thin veneer panel system ever designed. Each Thin Brick, tile or stone is supported by our patent pending support ties that mechanically interlock the masonry veneer to the panel.



Glen-Gery Thin Tech® mechanical support tie for both Classic and Elite.



For additional information on Glen-Gery Thin Brick installation please visit our website at www.glenery.com.

GLEN-GERY THIN TECH[®]

Thin Masonry Support Technology

Classic Series is your traditional choice with our patent pending locking support tie. Main features and benefits are:

Patent pending support tie configuration placed on a 76° angle

G-90 galvanized and thermal set coating

Stucco embossed texture

26-gauge architectural grade steel

Lightweight design

Elite Series is your choice for superior performance while maintaining all the features and benefits of the Classic Series, plus:

Superior drainage

Superior bond strength

Superior air flow and ventilation

Superior pressure equalization

Features rain screen technology

For additional information on Glen-Gery Thin Tech[®], please visit our website at www.glengery.com/thin-tech.





Front cover image:
La Salle Thin Brick

Back cover image:
Milwaukee Thin Brick
with Thin Tech®
masonry support



610.374.4011
glengery.com



SIDING INFORMATION

PREMIUM POINTE®

A legacy of integrity.

Royal Building Products' Exterior Portfolio® brand continues to design innovations that make confident and creative statements. Recognized as the category leader, Exterior Portfolio is synonymous not just with state-of-the-art products like Architectural Essentials™ trim and accessories—but with cutting-edge tools like the Dream Designer® online visualizer, too.

For inspiring tools, design ideas and information about more products, visit ExteriorPortfolio.com.

855.769.2585

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Consult the VSI website at www.vinylsiding.org for a current list of certified products and colors.

PREMIUM POINTE® DOUBLE 4" IN REGATTA

*Sometimes the only way to return to normal
is to escape the norm.*

Discover the familiarity in rarity.

Leave ordinary behind and you're bound to reach someplace extraordinary. Someplace that allures. That never fades. That lives on like the memories it creates. Someplace that feels like home.

PREMIUM POINTE® DOUBLE 4" IN IVORY



AVAILABLE PROFILES



DOUBLE 4"



DOUBLE 4.5" DUTCHLAP



BOARD & BATTEN

DOUBLE 4" AND DOUBLE 4.5" DUTCHLAP FEATURES

True-milled finish

No painting. No scraping. Virtually maintenance free

Extra thick .092" full rollover nailing hem provides up to 200 mph wind load performance

Available in extra-long 16' panels, which reduce seams by up to 33%

Full 3/4" profile edge assures straight walls

.046" nominal thickness

Lifetime Limited Warranty

BOARD & BATTEN FEATURES

Low-gloss cedar woodgrain finish

No painting. No scraping. Virtually maintenance free

Specially designed double nailing hem provides up to 170 mph wind load performance

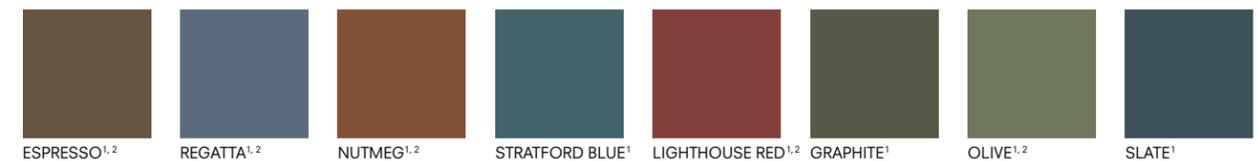
Crisp 1/2" profile edge straightens walls

Seamless appearance enhances beauty and rigidity, and complements a home's design when used as an accent feature

.046" nominal thickness

Lifetime Limited Warranty

SMART STYLES™ EXPRESSIONS



ESPRESSO^{1,2} REGATTA^{1,2} NUTMEG^{1,2} STRATFORD BLUE¹ LIGHTHOUSE RED^{1,2} GRAPHITE¹ OLIVE^{1,2} SLATE¹

SMART STYLES™



HARBOR BLUE COUNTRY BEIGE² WHEAT ASPEN WHITE² CYPRESS² PEARL MOCHA SADDLE²
CLAY² HONEY OAK² BONE GREYSTONE² RYE DRIFTWOOD² DESERT² IVORY

¹ Not available in Premium Pointe 12'
² Available in Board & Batten

WINDOW INFORMATION

Exclusive Window Collection.

Enhancing The Beauty And Value Of Your Home.

| Series 1000 | Series 4000/5000 | Series 4000/5000 Hybrid |



QUALITY WINDOWS & DOORS
GREAT SERVICE. EXCEPTIONAL VALUE.

northstarwindows.com



Since 1985 North Star has been an industry leader in the manufacture of attractive and energy-efficient vinyl windows and patio doors. Whether you're building a new home or upgrading to today's standards, North Star has an extensive range of quality, energy-efficient, and full-featured windows that are not only beautiful, but offer exceptional value.





Stainable and Paintable Interior Finish – Match the custom look of existing interior wood finishes with North Star's unique stainable or paintable interior overlays with wood grain texture. Our new screen design can also be laminated with the same material allowing it to be color matched to the window frame.

Why We Are The Best

North Star has earned a reputation for manufacturing and distributing attractive, high-quality, energy efficient vinyl windows and doors.

North Star's manufacturing system ensures all our vinyl windows and doors are built to meet or exceed industry standards. Our products are tested and certified by Energy Star and comply with American Architectural Manufacturers Association (AAMA) standards. We're so confident in our windows and doors that we back them with a transferable, limited lifetime warranty.

When you buy North Star products, you know you're getting the best quality and value for your investment.





Grilles

The beauty of your North Star windows can be enhanced through traditional or contemporary grilles, available in three profiles: 1/4" square, 5/8" flat and 3/4" contour.



1/4" SQUARE

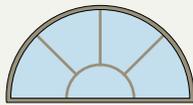


5/8" FLAT

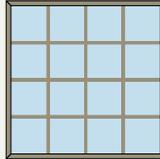


3/4" CONTOUR

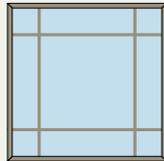
Grille Configurations:



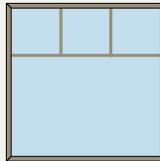
CUSTOM & ARCHITECTURAL



REGULAR SQUARES



PRAIRIE



MUSKOKA

Grille Types



BETWEEN THE GLASS

Between The Glass (BTG) –

Our BTG grilles are encased between the two panes of insulating glass, leaving a smooth surface that's a breeze to clean.

Grilles between the glass are available in white, pewter, brass and in colors to match the interior and exterior finishes of our windows and doors.

Simulated Divided Lites (SDL) –



SIMULATED DIVIDED LITES

Our SDL grilles look like traditional divided lite grilles, but offer the outstanding performance of our energy-efficient windows. SDL grilles

are applied to the outer surfaces of the insulated glass for a more traditional profile – inside and out. Exterior grilles are available in colors to match our exterior color options, while interior grilles come in white, kolonial oak or stainable/paintable overlays.

For details on the color and profile combinations available, visit our website, northstarwindows.com

Colors

North Star AAMA-certified extrusions are available in white and seven standard exterior laminated colors - espresso, sable, chestnut brown, cocoa, sandalwood, hickory and ivory. These UV-resistant vinyl overlays, with an embossed wood grain texture, will remain attractive for years to come.

You can also enjoy the warmth of an oak interior finish with our kolonial oak acrylic overlay, virtually indistinguishable from real wood. If matching to pre-existing wood stains or paint colors, use our stainable or paintable overlay with its wood grain texture.

The all vinyl 4000/5000 series is only available in white for both interior and exterior surfaces.

Vinyl - 1000 Series

Exterior Colors



WHITE



HICKORY



IVORY



CHESTNUT BROWN



SABLE



ESPRESSO



COCOA



SANDALWOOD

Aluminum/ Vinyl - Hybrid



WHITE



TAN SAND



SLATE



CHARCOAL



BLACK

Interior Finishes



WHITE



STAINABLE/PAINTABLE



KOLONIAL OAK



WHITE

When you purchase North Star windows and doors, you get a high-quality and low-maintenance product with a limited lifetime warranty.

Made of durable vinyl, they never need to be painted. And because they exceed industry standards for energy efficiency, they are proven to reduce your energy costs while they increase the value of your home.



Awning Windows

Awning windows improve airflow, and protect your home from the elements, making them an excellent solution for basements, near walkways or above doors and other windows for increased ventilation and light.



Casement Windows

Casement windows offer contemporary styling and convenience. They open and close easily with the simple turn of a handle, and provide clean sightlines with an unobstructed view. Durable multi-point locking hardware comes standard.



Picture Windows

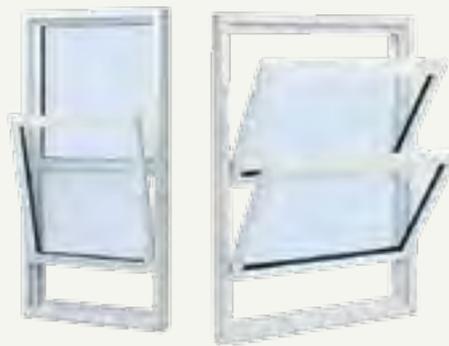
Available in extrusions that match all of our operating windows, the picture window's simplicity makes it the most versatile of our line. They can be combined in a series of fixed and operable windows to enhance your décor – and your view.



Contoured Glazing Stop – Interior contoured glazing stop with miter-cut corners for clean lines that complement any room.



Exterior Bevelled Frames – Attractive exterior frames feature a traditional looking bevelled profile.



Horizontal Slider Windows

Offering a large, unobstructed view, our sliders operate with finger-tip ease. Sashes of our single and double lift sliders and three-lite end vent sliders lift out for cleaning, while double tilt slider windows tilt in for easy roomside cleaning.

Single- & Double-Hung Windows

Single- and double-hung tilt windows deliver traditional beauty with improved security, lower maintenance and increased energy efficiency. Featuring cam locks and recessed finger latches, the sashes slide and tilt in for easy, safe cleaning.

Bow Windows

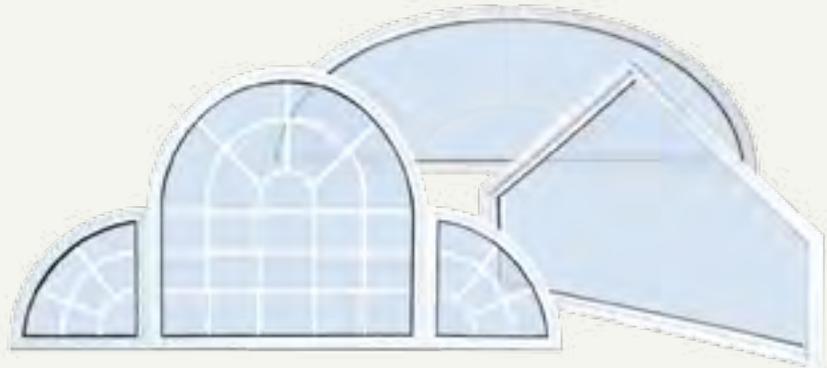
Almost any opening can become an instant greenhouse or relaxing nook with a striking bow window. Comprised of any combination of four to five individual windows, both insulated and non-insulated head and seat options are available.



Triple Weatherstripping – Provides long lasting protection against water and air infiltration in our casement and awning windows.



Self-Locking Latch – Optional self-locking hardware, available on the single- or double-hung and slider, provides homeowners even greater security and peace of mind.

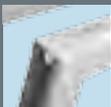


Bay Windows

Few styles outshine the bay for beautifying a home's exterior and flooding natural light into interior spaces. Projecting outward from a wall at 30 or 45 degree angles to create a cozy alcove, any combination of windows can be used to create a beautiful bay window. Head and seat options can be insulated or non-insulated.

Custom Shape Windows

Make your house not only a home but a work of art by adding custom shape picture or single-hung windows. Designed just for you to enhance the style and architectural detailing of your home, custom shapes add a unique artistic element to your living space.



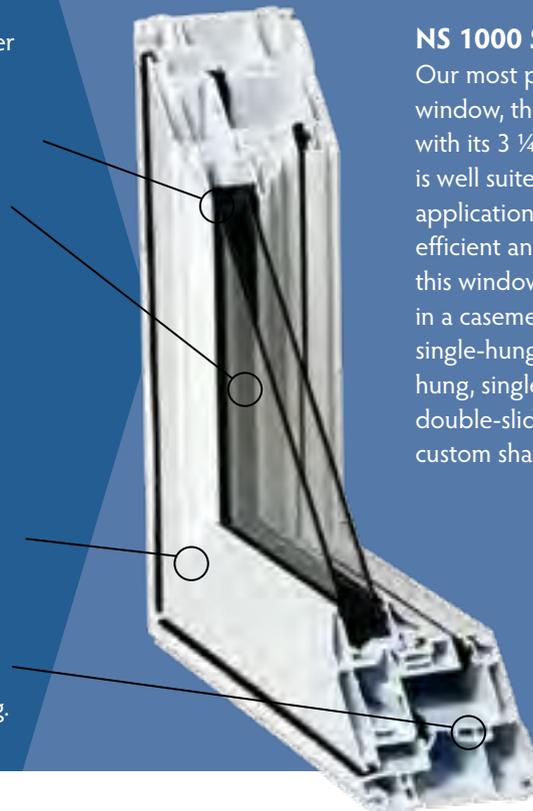
Recessed Finger Latch – A simple, concealed latching system that is easy to operate, yet offers superior security.



Screen Pulls – Durable pull tabs take the struggle out of removing window screens. These tabs are available in colors that match North Star's windows.

Standard Features For All Of Our Energy-Efficient Quality Windows

- 1. Super Spacer®** – The Quanex Premium Super Spacer between glass panes resists condensation, reduces noise and boosts insulation values by up to 30%.
- 2. Energy Advantage™ Low-E** – Energy Advantage Low-E is a high performance, energy-efficient glass made with a coating that is designed for top performance in our northern climate, which is why it can rate highest on the Canadian Energy Rating. Energy Advantage Low-E glass allows the sun's energy to warm your home in the winter. Other low-e glass options, designed to minimize cooling costs, are also available.
- 3. Fusion Welded** – The corners on all North Star frames and sashes are fusion welded for added strength and a perfect seal.
- 4. Energy Efficient Extrusions** – North Star's multi-chambered vinyl extrusions save energy – and money – and resist warping, cracking and peeling.



NS 1000 Series

Our most popular window, the 1000 series with its 3 1/4" frame, is well suited to most applications. Energy efficient and durable, this window is available in a casement, awning, single-hung, double-hung, single-slider, double-slider and custom shape.

Hardware

Hardware and locks used in North Star's windows are easy to use, secure and come with a lifetime warranty. Durable multi-point locking hardware comes standard with all casement windows.

Fold-Down Handles

Optional fold-down handles on our casement windows lie flatter than traditional handles and allow window treatments to close neatly.



Glass

To increase the efficiency of our windows and doors, North Star uses energy-saving Low-E glass that features a near-invisible coating that reduces the amount of heat lost while letting in light.

And the Super Spacer® technology in every window we make resists condensation, boosts R-values and reduces noise.

Optional self-cleaning glass features a unique treatment that allows the glass to break down organic dirt that collects on the surface. Dirt washes away with the next rain.

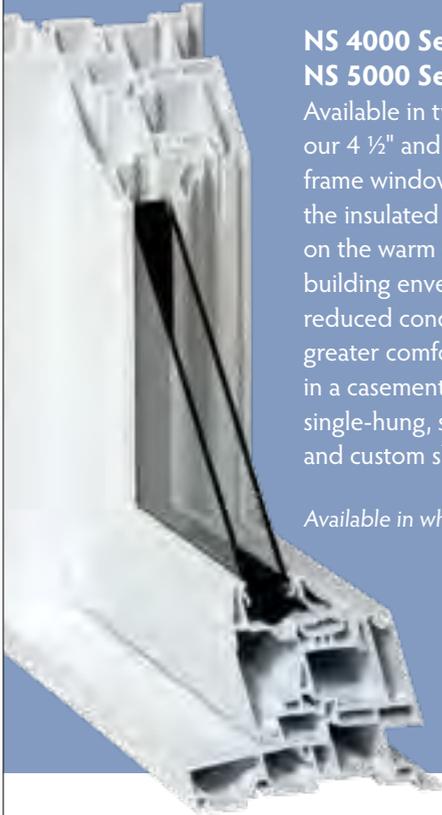
Pilkington Activ™ Self-Cleaning Glass is available in every North Star window.

Other glass options include

- Argon and Krypton gas filled
- Tempered glass
- Bronze- and gray-tint glass
- Triple glazing
- Obscure glass



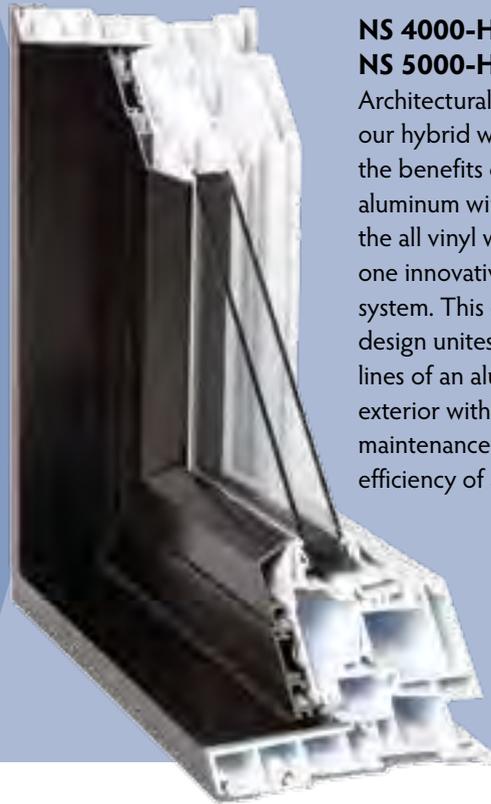
Triple Glazing – For unparalleled performance and superior energy efficiency ask for North Star's triple insulated glass unit.



NS 4000 Series/ NS 5000 Series

Available in two widths, our 4 ½" and 5 ¼" full frame window, positions the insulated glass unit on the warm side of the building envelope, for reduced condensation and greater comfort. Available in a casement, awning, single-hung, single-slider and custom shape.

Available in white only.

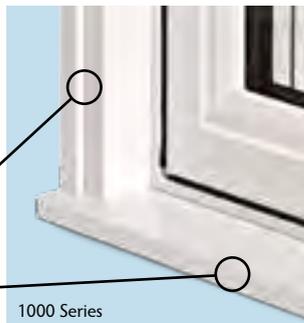


NS 4000-H (Hybrid) / NS 5000-H (Hybrid)

Architecturally inspired, our hybrid window offers the benefits of both the aluminum window and the all vinyl window in one innovative window system. This durable design unites the clean lines of an aluminum exterior with the easy maintenance and energy efficiency of a vinyl interior.

Accessories

North Star offers a range of accessory options, including wood or vinyl jamb extensions that make a seamless transition from the window frame to your interior finish. Exterior accessories include brickmould with built in siding J-channel and nail fins for ease of installation and a weather-tight seal to the outdoors. For a refined architectural look, add our 2" brickmould with cap. A 2" x ½" extrusion is also available that can be used as either a sill extension or a brickmould giving our 1000 series a more contemporary look.



Brickmould With Cap

Exterior Extension

EZ-Screen

North Star's innovative EZ-Screen comes standard in all Casement and Awning windows. Featuring a completely hidden retention system, EZ-Screen has smooth edges that won't snag on draperies and is incredibly easy to use – just push-down and pull-out!



For more information on accessories for all of the window series, please visit our website, northstarwindows.com



Manufactured To The Highest Standards

The strong relationship we have with our various manufacturing partners has helped us maintain our reputation for leadership, innovation and the production of windows and doors of impeccable quality.

igmac



**fenestration
canada**



Super Spaces
BETWEEN YOU AND THE OUTDOORS



northstarwindows.com



CASEMENT WINDOWS

Offering full top-to-bottom ventilation, Andersen® 100 Series casement windows are made with our revolutionary Fibrex® composite material to give you a window that is durable, environmentally smart and energy efficient. 100 Series products are available in deep, rich colors that complement virtually any architectural style. For added style, we offer a wide range of grille patterns and patterned glass options.

DURABLE

- Virtually maintenance-free
- Rigorously tested to deliver years* of smooth, reliable operation
- Fibrex material construction provides long-lasting* performance
- Durable, low-maintenance finish won't fade, flake, blister, chalk or peel*
- Fibrex material is twice as strong as vinyl

ENERGY EFFICIENT

- Weather-resistant construction for greater comfort and energy efficiency
- Weatherstripping is designed to seal out drafts, wind and water
- Variety of Low-E glass options are available to help control heating and cooling costs in any climate
- Many 100 Series casement windows have options that make them ENERGY STAR® v. 6.0 certified throughout the U.S.



BEAUTIFUL

- Clean, attractive corner seams
- Six exterior color options
- Attractive matte finish interiors available in four colors
- Add style with grilles or patterned glass

EXTERIOR COLORS



White Sandtone Terratone Cocoa Bean Dark Bronze Black



*Visit andersenwindows.com/warranty for details.
 "ENERGY STAR" is a registered trademark of the U.S. Environmental Protection Agency.

100 SERIES CASEMENT WINDOWS

Fibrex® material combines the strength and durability of wood with the low-maintenance of vinyl. The wood fibers are reclaimed from our own factories, which makes this product sustainable and environmentally responsible.

HIGH-PERFORMANCE GLASS OPTIONS

- Low-E glass
- Low-E glass with HeatLock® technology
- Low-E SmartSun™ glass
- Low-E SmartSun glass with HeatLock technology

Tempered glass and other glass options are available. Contact your Andersen dealer.

PATTERNED GLASS

Ideal for letting light into the home while obscuring vision. Available in four attractive patterns.



FRAME OPTIONS

1-3/8" flange setback, 1" flange setback with stucco key or replacement configuration.

ADDITIONAL FEATURES

- Sash design allows for venting in a variety of weather conditions
- Sash operator provides almost effortless opening and closing, regardless of unit size

INTERIOR OPTIONS



HARDWARE

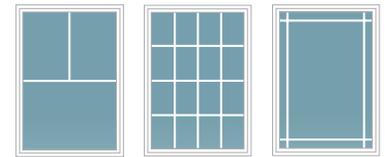


Antique Brass | Black | Dark Bronze | Sandtone | Satin Nickel | White

GRILLES

Choose from the following grille options:

- Finelight™ grilles-between-the-glass
- Finelight with exterior grilles
- Simulated divided light
- Full divided light



Tall Fractional Colonial Prairie

All grille options are available in a variety of patterns.

*Dark Bronze and Black interiors are only available with Dark Bronze and Black exteriors respectively. Printing limitations prevent exact color and finish duplication. See your Andersen dealer for actual finish samples. "Andersen" and all other marks where denoted are trademarks of Andersen Corporation. ©2016 Andersen Corporation. All rights reserved. SS_011 10/16



For more information, visit andersenwindows.com/100series

For help finding an Andersen product or dealer near you, please call us at 877.577.7655 or visit andersenwindows.com.



SINGLE-HUNG WINDOWS

Andersen® 100 Series single-hung windows allow ventilation through a single operable lower sash that slides up and down. Classic rectangular shapes are available, or use an arched top for added elegance. Made with our revolutionary Fibrex® composite material, 100 Series products are durable, environmentally smart and energy efficient. 100 Series products are available in deep, rich colors that complement virtually any architectural style. For added style, we offer a wide range of grille patterns and patterned glass options.

DURABLE

- Virtually maintenance-free
- Rigorously tested to deliver years* of smooth, reliable operation
- Fibrex material construction provides long-lasting* performance
- Durable, low-maintenance finish won't fade, flake, blister, chalk or peel*
- Fibrex material is twice as strong as vinyl

ENERGY EFFICIENT

- Weather-resistant construction for greater comfort and energy efficiency
- Weatherstripping is designed to seal out drafts, wind and water
- Variety of Low-E glass options are available to help control heating and cooling costs in any climate
- Many 100 Series single-hung windows have options that make them ENERGY STAR® v. 6.0 certified throughout the U.S.



BEAUTIFUL

- Clean, attractive corner seams
- Six exterior color options
- Attractive matte finish interiors available in four colors
- Add style with grilles or patterned glass

EXTERIOR COLORS



White Sandtone Terratone Cocoa Bean Dark Bronze Black



100 SERIES SINGLE-HUNG WINDOWS

Fibrex® material combines the strength and durability of wood with the low-maintenance of vinyl. The wood fibers are reclaimed from our own factories, which makes this product sustainable and environmentally responsible.

HIGH-PERFORMANCE GLASS OPTIONS

- Low-E glass
 - Low-E glass with HeatLock® technology
 - Low-E SmartSun™ glass
 - Low-E SmartSun glass with HeatLock technology
- Tempered glass and other glass options are available. Contact your Andersen dealer.

PATTERNED GLASS

Ideal for letting light into the home while obscuring vision. Available in four attractive patterns.



FRAME OPTIONS

1-3/8" flange setback, 1" flange setback with stucco key or replacement configuration.

ADDITIONAL FEATURES

- Sash lock engages automatically when operable sash is closed
- Operable sash has a meeting stile cover with a unique raised profile design, allowing the sash to be opened and closed easily

INTERIOR OPTIONS



HARDWARE



Single-hung windows feature hardware that automatically locks when windows are closed. Hardware color matches the window's interior.

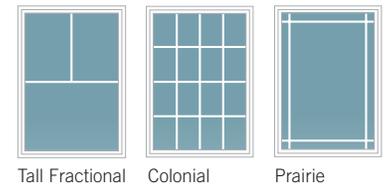
Optional lift handle matches the window's interior.

New metal Slim Line hardware is available in White, Sandtone, Dark Bronze, Black, Satin Nickel and Antique Brass.

GRILLES

Choose from the following grille options:

- Finelight™ grilles-between-the-glass
- Finelight with exterior grilles
- Simulated divided light
- Full divided light



All grille options are available in a variety of patterns.

*Dark Bronze and Black interiors are only available with Dark Bronze and Black exteriors respectively. Printing limitations prevent exact color and finish duplication. See your Andersen dealer for actual finish samples. "Andersen" and all other marks where denoted are trademarks of Andersen Corporation. ©2016 Andersen Corporation. All rights reserved. SS_015 10/16



For more information, visit andersenwindows.com/100series

For help finding an Andersen product or dealer near you, please call us at 877.577.7655 or visit andersenwindows.com.



PELLA[®]

Impervia[®]

FIBERGLASS WINDOWS AND SLIDING PATIO DOORS
WITH OUTSTANDING BEAUTY AND PERFORMANCE.



Durability of fiberglass.





Stay comfortable inside, no matter the weather outside. If your home is near the shore or a beach, high on a mountainside or somewhere in between, Pella® Impervia® fiberglass windows and patio doors are strong and stable enough to endure extreme heat or cold, damaging UV rays and sea air.



What can fiberglass do for you?

It will complement your home with the quality look of a painted window and can increase energy efficiency and comfort. Plus, the interior and exterior of your windows and patio doors arrive with a durable powder-coat paint finish that will last for years.



Performance highlights.

Pella Impervia products are made from Duracast® fiberglass composite – it's the strongest, most durable material available for windows and patio doors.¹ They won't warp in the heat or become brittle in the cold.

Pella Impervia windows and patio doors offer the energy-efficient options that will meet or exceed ENERGY STAR® certification in all 50 states.²



¹ In testing performed in accordance with ASTM testing standards, Duracast fiberglass composite from Pella has displayed superior performance in strength, ability to withstand extreme heat and cold, and resistance to dents and scratches. Pella Impervia Special Shape windows are made of a non-Duracast fiberglass composite.
² Some Pella products may not meet ENERGY STAR® certification in Canada. For more information, contact your local Pella sales representative or go to energystar.gc.ca.

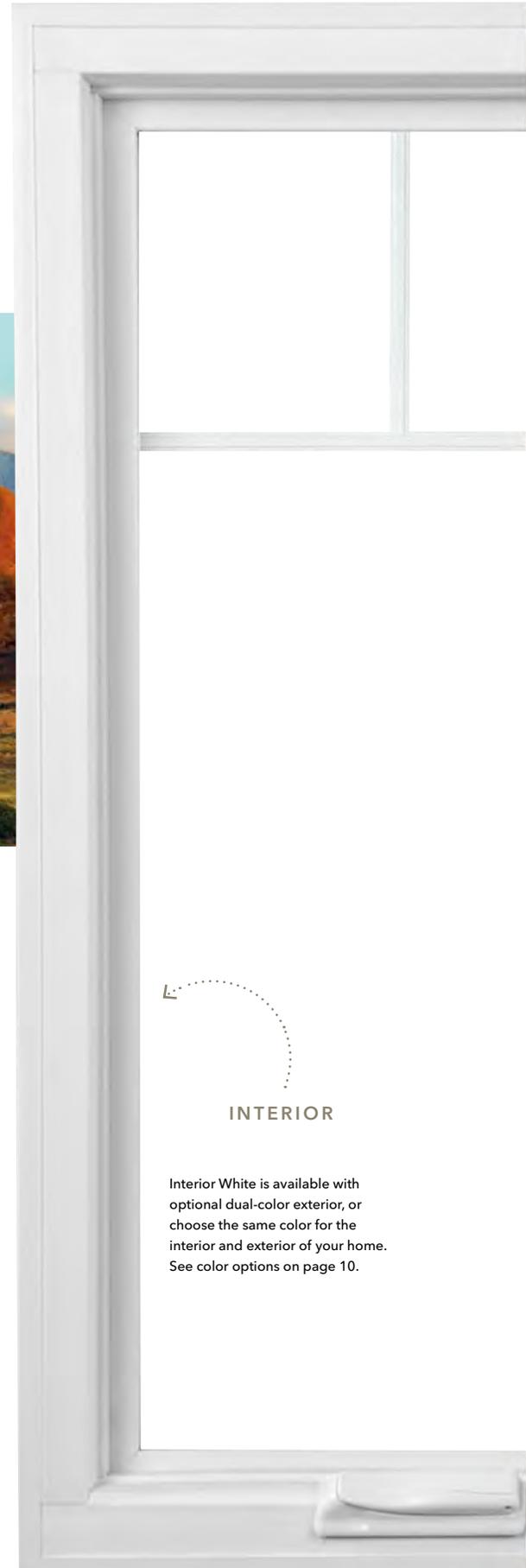
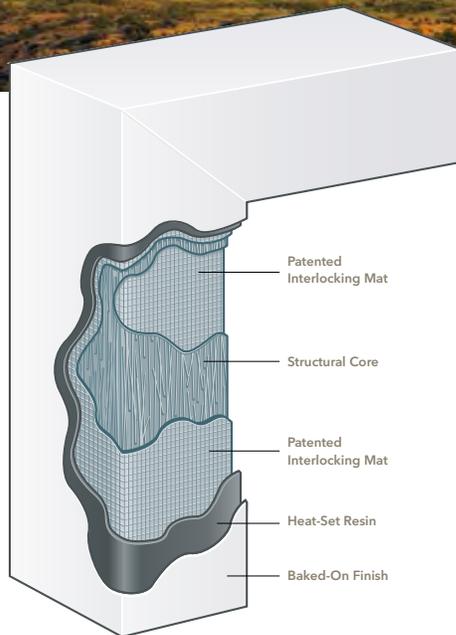
Durability of fiberglass.

Pella® Impervia® fiberglass products are made to stand up and stand out with exceptional energy efficiency and low-maintenance features – all with the quality look of a painted window.



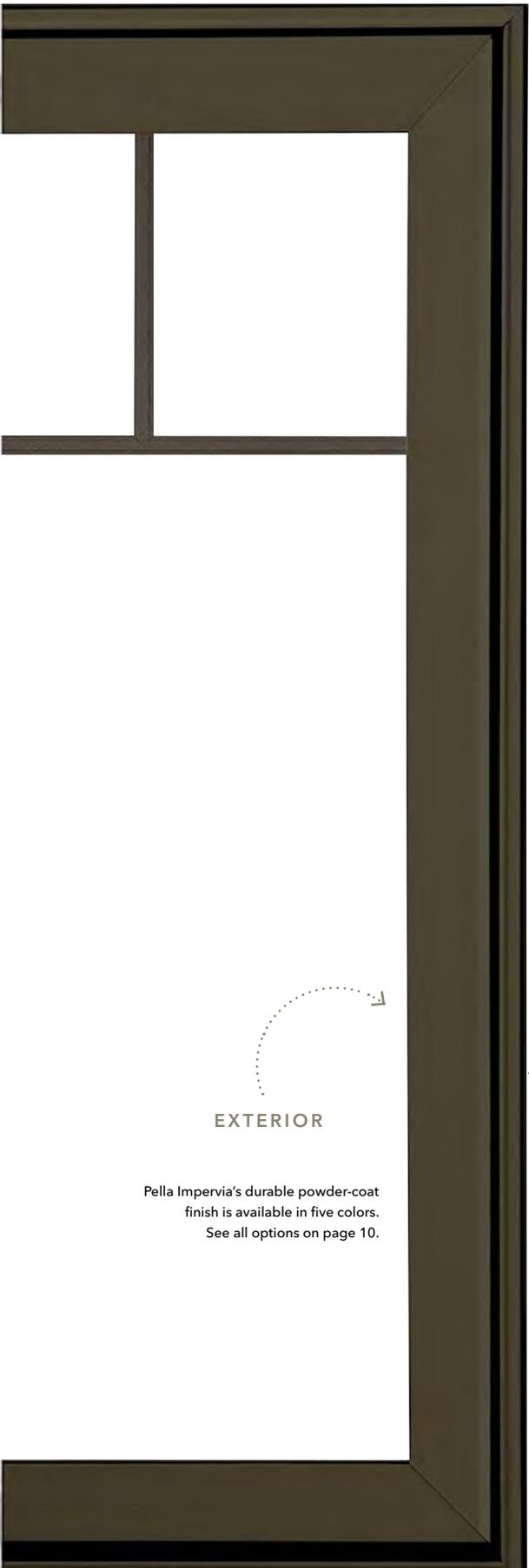
Withstands high heat and subzero cold.

Duracast® material – Pella's patented, five-layer, engineered fiberglass composite – is ideally suited for all climates.



INTERIOR

Interior White is available with optional dual-color exterior, or choose the same color for the interior and exterior of your home. See color options on page 10.



Backed by one of the best warranties in the business.



The Pella Limited Lifetime Warranty is nonprorated, meaning the coverages within the defined warranty periods do not decrease over time. See written warranty for complete details at pella.com/warranty.



EXTERIOR

Pella Impervia's durable powder-coat finish is available in five colors. See all options on page 10.

Beauty that stands the test of time.
Pella® Impervia® windows provide years of outstanding performance and beauty that complements the look of your home inside and out.

Learn more about our fiberglass product:
CHOOSEPELLA.COM/FIBERGLASS

A fiberglass product that's just right for you.

WINDOWS



Sliding Windows

Easy operation.

Tandem nylon rollers are extra-durable and help ensure smooth openings and closings.

A tighter seal against the elements.

Pella's cam-action locks pull the sashes against the weatherstripping.

Simple to clean.

Sliding sash can be removed to clean exterior glass from inside your home.

Casement and Awning Windows

Smooth openings and closings.

Stainless-steel operating arms and hinges resist rust and corrosion.

Simple to operate.

SureLock® System secures the window in two places with one easy-to-reach handle.

More convenient handle design.

Fold-away handle won't get in the way of roomside window treatments.

A breeze to clean.

Easy-clean wash feature makes it simple to clean the exterior glass from inside your home.

Double- and Single-Hung Windows

Easy operation.

Our advanced balance system helps ensure your window will open and close easily for years to come.

Strong protection against the weather.

Pella's cam-action locks pull the sashes tight against the weatherstripping.

Easier cleaning.

Opening sash tilts in¹ – making it easy to clean the exterior glass from inside your home.

For more information on Pella's window and patio door offering, see your local Pella sales representative or visit:

CHOOSEPELLA.COM/OFFERING



Bay or Bow Windows

The right fit for your home.
Choose between 30° and 45° bay windows and 4- and 5-unit casement bow windows. Standard and custom sizes and angles are available.

Extra comfort and charm.
Options include beautiful birch and oak headboards and cozy insulated seatboards.

Beautiful wood frames.
Bay and bow wood frames come unfinished, ready to be painted or stained.

Combination, Fixed and Special Shapes

Curves, angles and more.
Special Shape windows, made from fiberglass resin (non-Duracast® fiberglass composite), beautifully complement other Pella® Impervia® windows and patio doors.²

A quality, seamless look.
Grille options are available to match other Pella Impervia products.

More ways to express your style.
Factory-assembled window combinations allow you to create a stunning focal point in your home.

Sliding Patio Doors

Exceptional security.
Pella Impervia sliding patio doors, with multipoint lock hardware, have been awarded an ASTM Grade 40 security rating – the highest in the industry.

Better draft protection.
Pella's unique design puts the sliding panel on the outside. So when the wind blows against it, it creates a tighter seal. Plus, the screen is protected from the elements.

Easy to use.
The roller system on the sliding panel helps ensure easy openings and closings.

¹ Available on double-hung windows only.

² See your local Pella sales representative for details.

Comfort in. Weather out.

Pella® products offer exceptional energy-efficient performance wherever you live.

Glass at a glance.

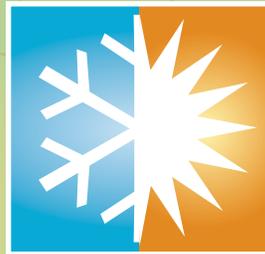
Pella's InsulShield® Low-E Glass Collection¹ features our most innovative and energy-saving choices, designed for your specific needs.



For most U.S. climates.

GLASS TYPE: Advanced
Low-E Insulating Glass with Argon²

Unique Low-E technology delivers balanced insulation for cold winters and hot summers.



For very hot, sunny climates.

GLASS TYPE: SunDefense™
Low-E Insulating Glass with Argon²

Allows in visible light and provides a clear view, while helping to block the heat of the sun.



Hawaii

¹ Glass options can be upgraded to offer the benefits of our InsulShield Low-E Glass Collection. Glass options may vary per product. See specific product information for availability.

² Optional high-altitude Low-E insulating glass does not contain argon in most products. Please see your local Pella sales representative for more information.

³ Some Pella products may not meet ENERGY STAR® certification in Canada. For more information, contact your local Pella sales representative or go to nrcan.gc.ca/energy/products/categories/fenestration/13739.

⁴ Ranges are based on the average savings among homes in modeled cities. Actual savings will vary based on local climate conditions, utility rates and individual home characteristics. For more information on the benefits of ENERGY STAR qualified windows and doors, go to energystar.gov/index.cfm?c=windows_doors.pr_benefits.

For cold climates – like northern U.S. and Canada.

GLASS TYPE: NaturalSun
Low-E Insulating Glass with Argon²

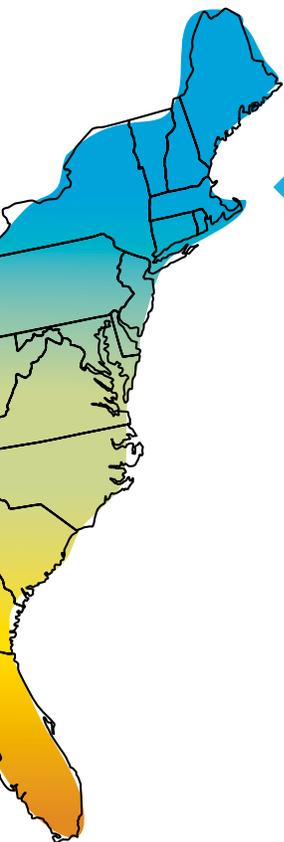
Allows the sun's heat to flow in and warm your home, while providing excellent insulation from the cold.



For northern U.S. climates.

GLASS TYPE: AdvancedComfort
Low-E Insulating Glass with Argon²

Unique Low-E technology delivers balanced insulation for colder winters and moderate summers.



Helping you save on heating and cooling costs.

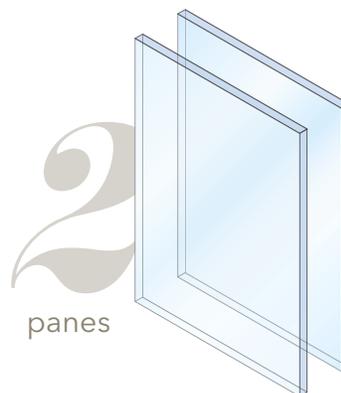


Installing ENERGY STAR® certified windows and doors can lower energy costs.³ With more efficient windows, you can also use less energy, which reduces greenhouse gas emissions from power plants.

For a typical home, when replacing single-pane windows with ENERGY STAR certified windows, you can save on average:

\$101 to
\$538 per year

And 1,006 – 6,072 pounds of carbon dioxide (CO₂), which is equivalent to 51 to 310 gallons of gasoline a year.⁴



Available on ALL Pella® products.

More panes, more gains. Many older homes have single-pane windows, which can lead to higher heating and cooling costs and drafty interiors. Multiple panes of glass create an air chamber that can dramatically increase energy efficiency and comfort.

Glass for a wide range of needs.

In addition to exceptional energy efficiency, you'll find great glass options that help with privacy, glare and noise control.

For more information on glass, see your local Pella sales representative or visit:

CHOOSEPELLA.COM/GLASS

Features and options.

FRAME COLORS

Pella® Impervia® products feature a durable powder-coat paint finish. Optional dual colors allow you to choose a different color on the exterior.



White

Tan

Morning Sky Gray



Brown

Black

Dual-Color Frames



White Interior with
Tan Exterior



White Interior with
Morning Sky Gray Exterior



White Interior with
Brown Exterior



White Interior with
Black Exterior

SCREENS¹

Improve your view and let in more light and fresh air with your choice of innovative screens from Pella.



Conventional
Screen

InView™
Screen

HARDWARE STYLES

Find beauty and function in Pella's innovative, easy-to-operate hardware styles.



Casement Crank



Cam-Action Sash Lock



Sliding Patio
Door Handle

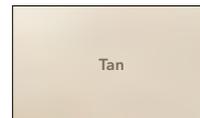
HARDWARE FINISHES

Choose from today's most popular decorative finishes to coordinate with other finishes in your home.

Color-Matched Window and Sliding Patio Door Finishes



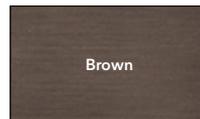
White



Tan



Morning
Sky Gray

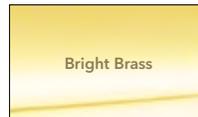


Brown



Black

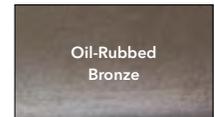
Additional Window and Sliding Patio Door Finishes



Bright Brass



Satin Nickel

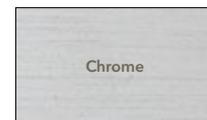


Oil-Rubbed
Bronze

Sliding Patio Doors Only



Antique Brass



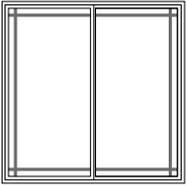
Chrome

fiberglass window and patio door DESIGN GUIDE

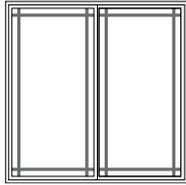
WINDOWS
SLIDING PATIO
DOORS

GRILLE PATTERNS²

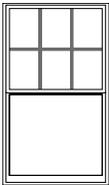
A variety of grille patterns for the look of divided light.
Custom patterns are also available.



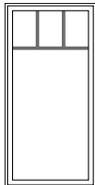
6-Lite Prairie



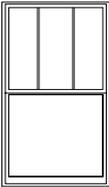
9-Lite Prairie



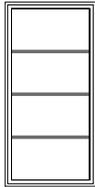
Traditional



Top Row



Special



Custom (equally divided)
Additional patterns available.

COLOR-MATCHED GRILLES-BETWEEN-THE-GLASS³

Grilles are color-matched to your window or patio
door interior and exterior frame color.



3/4" Aluminum Grilles-
Between-the-Glass

GLASS

INSULSHIELD® LOW-E GLASS COLLECTION¹



Advanced Low-E insulating double-pane glass with argon ²	O	O
AdvancedComfort Low-E insulating double-pane glass with argon ²	O	O
NaturalSun Low-E insulating double-pane glass with argon ²	O	O
SunDefense™ Low-E insulating double-pane glass with argon ²	O	O

ADDITIONAL GLASS

Clear insulating glass	S	S
Tempered glass	O	S
Obscure glass	O	O

¹ See pages 8 - 9 for details. ² Optional high-altitude Low-E insulating glass available with or without argon.

FRAME COLORS (INTERIOR/EXTERIOR)

DURABLE POWDER-COAT PAINT OPTIONS*

White	S	S
Tan, Morning Sky Gray, Brown or Black	O	O
Dual-color (White interior with Tan, Morning Sky Gray, Brown or Black exterior)	O	O

* See page 10 for finish colors.

HARDWARE¹

FINISHES¹

White	S	S
Tan, Morning Sky Gray, Brown or Black (to match interior finish)	O	O
Bright Brass, Satin Nickel or Oil-Rubbed Bronze	O	O
Antique Brass or Chrome ²		O

¹ See hardware styles and finishes on page 10. ² Antique Brass and Chrome available for patio doors only.

FOOTBOLT

Holds door open about 3" for ventilation		S
--	--	---

EASY-CLEAN

Easy to clean exterior glass from inside	S	
--	---	--

GRILLES-BETWEEN-THE-GLASS*

Aluminum grilles-between-the-glass (matched to frame color)	O	O
---	---	---

* Appearance of exterior grille color may vary depending on the Low-E insulating glass selection. See grilles and grille patterns on page 11.

GRILLE PATTERNS*

6-Lite Prairie	O	O
9-Lite Prairie	O	O
Traditional	O	O
Top Row	O	O
Custom (equally divided)	O	O
Special	O	O

* Grille patterns offered may vary per product. See specific product information for availability.

SCREENS*

Conventional fiberglass screen	S	S
InView™ screen	O	O

* ⚠ WARNING: Screen will not stop child or pet from falling out of window. Keep child or pet away from open window.

WARRANTY

Limited Lifetime Warranty*	S	S
----------------------------	---	---

* See written warranty for complete details at pella.com/warranty.

(S) Standard (O) Optional

Because we're always working to further refine our products and develop new ones, specifications may change without notice. Actual products may vary slightly from illustrations and photos. See a Pella sales representative for specific details and options available.

¹ ⚠ WARNING: Screen will not stop child or pet from falling out of window. Keep child or pet away from open window.

² Grille patterns offered may vary per product. See specific product information for availability.

³ Appearance of exterior grille color may vary depending on the Low-E insulating glass selection.



VIEWED TO BE THE BEST.®

Want to learn more about Pella® windows and doors? Call us at **866-209-4260** or visit pella.com.



Always read the Pella limited warranties before purchasing or installing Pella products. See written warranties for complete details at pella.com/warranty.



Pella Corporation is a proud volunteer partner in the U.S. Environmental Protection Agency and the Department of Energy's ENERGY STAR® program to promote the use of high-efficiency products.



Connect with Pella:

PATIO DOOR INFORMATION

Trade Professionals

Fiberglass Entry Door Systems

Design Your Door

Smooth-Star

Create curb appeal with plenty of color options. Smooth-Star features crisp, clean lines with a smooth, paintable surface. A much more attractive and durable alternative to steel, it has the look of a real wood door with all the benefits of **fiberglass**. From curb appeal to convenience, Smooth-Star entry doors are made to keep up with your lifestyle.



[Browse all doors in this collection.](#)

Where to Buy

- [2016 Full-Line Catalog](#)

More Information



AccuGrain Technology



System Components

Design Your Door

Choose your door and then personalize it with our wide variety of options.





[Save My Door](#)

[Print](#) |
 [Email](#) |
 [Post It](#) |
 [Share](#)

Pick Door Height: [6'8" Doors](#) [8'0" Doors](#)

Pick a Configuration: [6 Available Styles](#) ▼

Pick a Door Style: [38 Available Styles](#) ▶





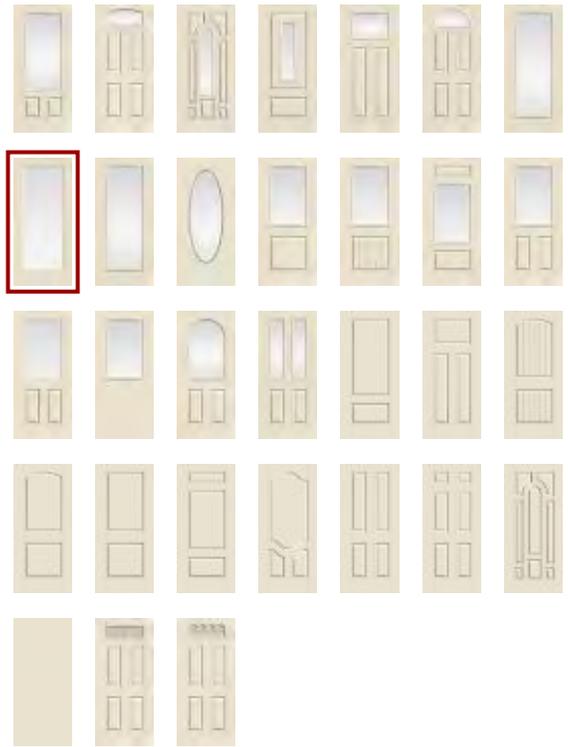
TruDefense® System



Quality Testing



Home Styles Guide



[View Details](#)

[Where to Buy](#)

[Try It On](#)

View style number(s), features and additional information.

Available Door Sizes:

- 2'0" x 6'6"
- 2'6" x 6'6"
- 2'8" x 6'6"
- 2'10" x 6'6"
- 3'0" x 6'6"
- 2'0" x 6'8"
- 2'6" x 6'8"
- 2'8" x 6'8"
- 2'10" x 6'8"
- 3'0" x 6'8"

Dimensional Data

Available Options:

Flush Glazed (?)

Glass: Clear

Low-E Available (?)

Finish Options:

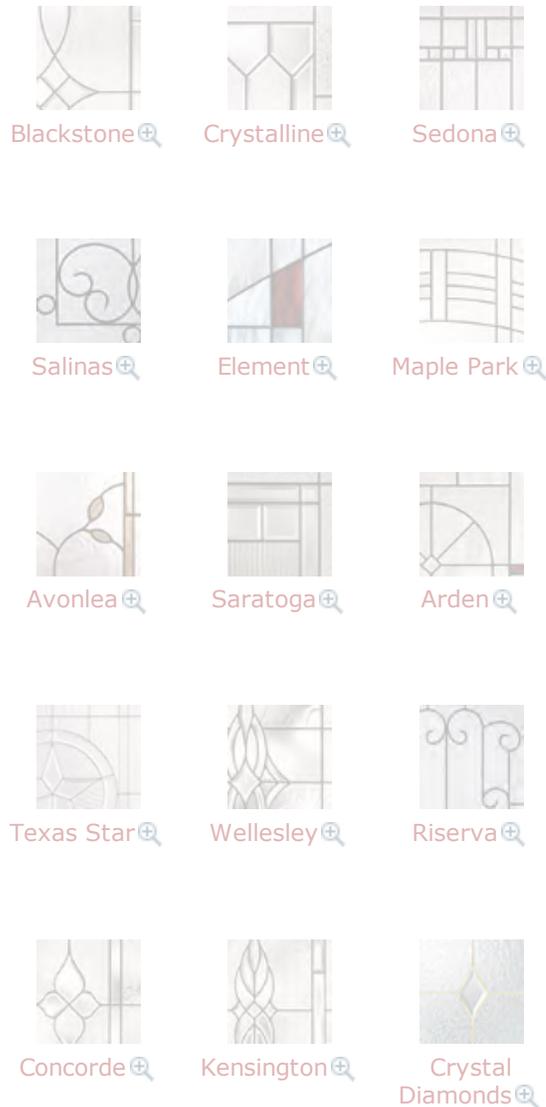
Paintable

Installation:

Installation Instructions



Pick a Glass Style: 9 Available Styles



**STOREFRONT FRAMING
INFORMATION**

STOREFRONTS AND ENTRANCES



041015



More recycled content, eco-efficient finishes

TUBELITE®

DEPENDABLE

LEADERS IN ECO-EFFICIENT STOREFRONT,
CURTAINWALL AND ENTRANCE SYSTEMS

800-866-2227 | www.tubeliteinc.com

Tubelite® has been in the business of fabricating and distributing architectural aluminum products for the glass and glazing industry since 1945. Storefront, entrance and curtainwall systems are available directly from Tubelite® and from a network of independent distributors. Tubelite's corporate office is located in Walker (Grand Rapids), Michigan, and our extrusion plant is in Reed City, Michigan. Fabrication, warehouse, and shipping operations are located in Walker, Michigan and Dallas, Texas. Tubelite's corporate office, fabrication, warehouse, and shipping operations are located in our Walker (Grand Rapids), Michigan facility, and the extrusion plant is in Reed City, Michigan.

Our promise to you is quality in everything we do; fast, reliable and consistent delivery; and responsible, courteous service with a personal touch.

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VERSATHERM™ FRAMING	9
3700 SERIES WINDOWS	10
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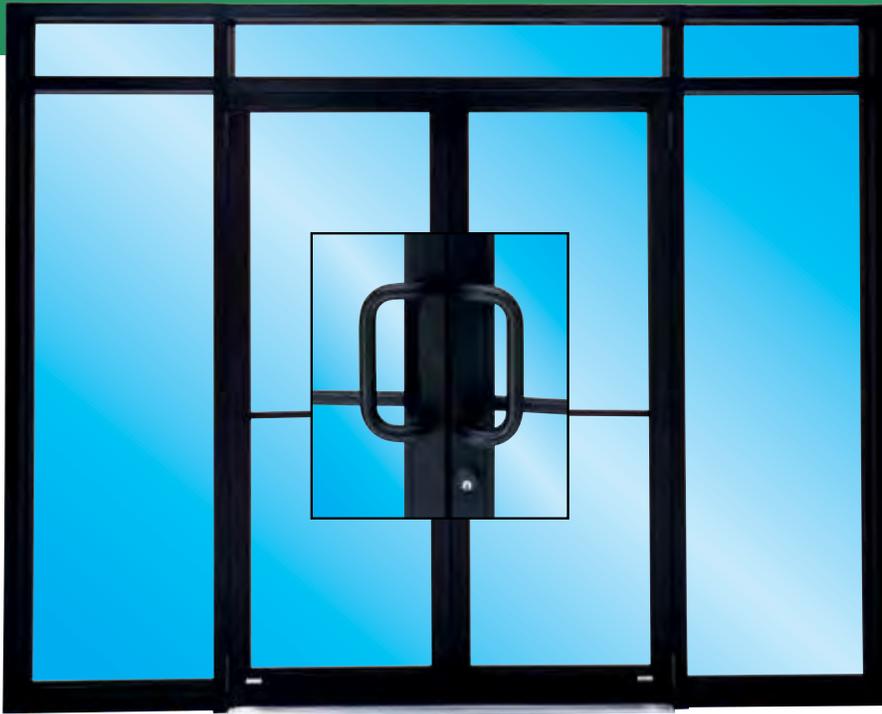
More recycled content, eco-efficient finishes

TUBELITE®
DEPENDABLE

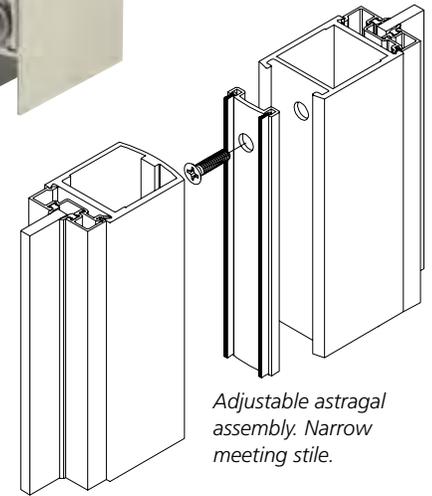
LEADERS IN ECO-EFFICIENT STOREFRONT,
CURTAINWALL AND ENTRANCE SYSTEMS



*14000 Series Center Glazed Storefront,
0A Clear Anodized; Owner: Nuway
Construction Headquarters, Elkhart, IN;
Tubelite Dealer: Quality Glass*



*Standard Narrow Stile
1-3/4" x 2-1/8" Door with
10" Bottom Rail; 0A Clear
Anodized Finish; 1/4" Glass*



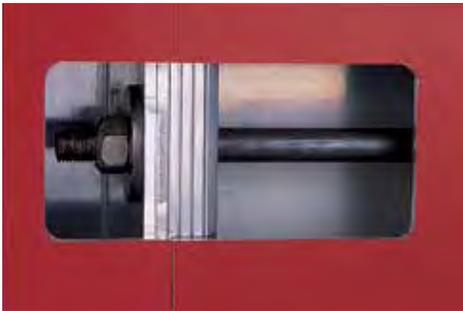
*Adjustable astragal
assembly. Narrow
meeting stile.*

STANDARD ENTRANCES

Our Narrow Stile Doors are designed for light to medium use in commercial and retail applications. Standard doors have exterior installation of glass or panels, with 2-1/8" width stiles and top rails, and the option of 4", 7-1/2" or 10" bottom rails for ADA compliance. The smooth design of Tubelite's door hardware features a convenient pull handle and push bar with lock location 36" above the finished floor. Stock doors and frames are anodized with clear or dark bronze finishes, and readily available for quick delivery.

DURABLE TIE-ROD CONSTRUCTION

The strength and flexibility of steel tie-rod construction is what holds it all together and makes our doors endure. Tie-rod assembly is as durable as welded corner construction, but superior in many ways. Tubelite doors can be modified, disassembled or resized right in the field. No other door offers you this much strength and flexibility.



WE LISTEN

Members of our management staff personally visit our glazing contractor clients regularly. We learn what works and what doesn't — from their perspective, not ours. The result is solutions that work — solutions tailored for the field — so jobs get done right the first time.

STANDARD & MODIFIED DOORS (1/8" WALL)	NARROW STILE	MEDIUM STILE	WIDE STILE
Application	Average traffic, offices, strip centers	Moderate traffic, retail stores	Heavy traffic, public buildings
Vertical Stile 1-3/4" x	2-1/8"	4"	5"
Top Rail 1-3/4" x	2-1/8"	4"	5"
Bottom Rail 1-3/4" x	4", 7-1/2", 10"	6-1/2", 7-1/2", 10"	6-1/2", 7-1/2", 10"
Glass Sizes	3/16", 1/4", 3/8", 1"	3/16", 1/4", 3/8", 1"	3/16", 1/4", 3/8", 1"

Note: Dimensions do not include 1/2" glass stops.

STANDARD AND CUSTOM FINISHES



Custom Entrance/400 Series Curtainwall, Wild Grape 70% premium painted finish; Sun Healthcare, Albuquerque, NM; Architect: Flatow-Moore-Shaffer-McCabe Inc.; Tubelite Dealer: Southwest Glass & Glazing

In addition to our standard Clear and Bronze anodized, and White painted colors, we offer five more anodized finishes and nineteen more standard painted colors. Blended standard and custom colors are also available, providing you with an infinite variety. More than a palette of pretty colors, our finishes are tough and backed by some of the best warranties in the industry.

See Tubelite's Standard Finish Color Guide for detailed information on the exceptional performance, integrity and weatherability of our durable anodized finishes. This guide also gives specifications for color retention, erosion resistance and gloss retention of our high-quality, painted finishes.

THE DIFFERENCE

We're confident that once you experience the benefits of doing business with Tubelite, you'll look to us for all of your storefront and entrance needs. Put us to the test! You'll find us to be the fastest, most **DEPENDABLE** supplier in the industry.



AAMA 2605 10 YEAR FINISH WARRANTY

70% Kynar premium painted finishes are guaranteed for 10 years against fading, chalking, and gloss reduction.

ROOFING INFORMATION

CertainTeed

LANDMARK® SERIES

Designer and Luxury Shingles



Shown in Landmark Weathered Wood

CertainTeed
SAINT-GOBAIN



Shown in Landmark Driftwood

You know it, when you see it.

It's not just a roof. It's a Landmark.

Quality. Durability. Style. Color.

When you select a roof for your home,
there's a lot to consider.



That's when a roof becomes more than just a roof.
The same way a home is more than just a house.

You want the best for your home
and everything in it.

So why guess, when you can be **Certain**?



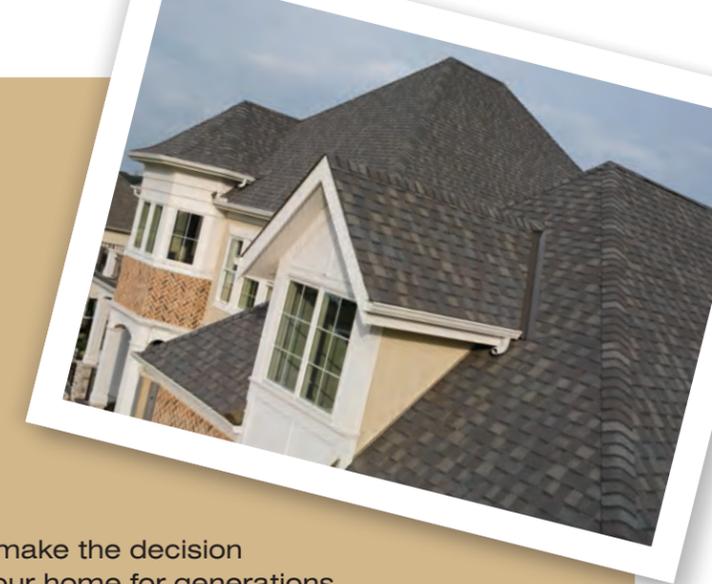


SO MUCH DEPENDS ON YOUR ROOF.

What's your roof protecting? Your family. Your possessions. The integrity of your house. All under one roof. All protected by the same investment.

When you choose Landmark® Series Shingles, you make the decision that assures the beauty, durability and security of your home for generations.

Landmark Series takes roofing to a higher level. It's engineered to outperform ordinary roofing in every category, keeping you comfortable, your home protected, and your peace-of-mind intact for years to come with a transferable warranty that's a leader in the industry.



Shown in Landmark Driftwood

LANDMARK® SERIES

exceptional value

Landmark Series offers four levels of high performance shingles in weight and thickness. The heavier the shingle, the more depth, thickness and dimension it offers. All four offer the exceptional value of the industry's toughest fiber glass mat, the strongest materials available and the best warranty.

lasting beauty

Landmark Series shingles endure time and weather beautifully. They come with our exclusive StreakFighter® warranty, protecting your roof from streaking that can be caused by airborne algae.

peace of mind

CertainTeed's enhanced lifetime limited warranty protects against ANY manufacturing defects, which include aesthetic defects.

Landmark® TL

- Triple-layer protection
- 305 lbs.
- Max Def color palette
- Lifetime limited warranty

Landmark® Premium

- Dual-layer, high performance
- 300 lbs.
- Max Def color palette
- Lifetime limited warranty

Landmark® Pro

- Dual-layer, high performance
- 250 lbs.
- Max Def color palette
- Lifetime limited warranty

Landmark®

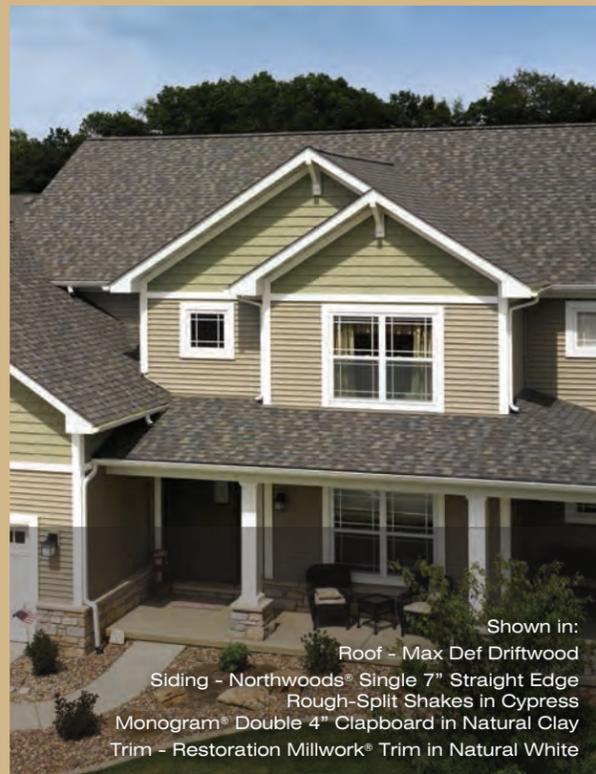
- Dual-layer durability
- 229/235 lbs.
- Lifetime limited warranty



Shown in Landmark Weathered Wood

Shown in Landmark Moire Black

LANDMARK[®] PRO



Shown in:
 Roof - Max Def Driftwood
 Siding - Northwoods[®] Single 7" Straight Edge
 Rough-Split Shakes in Cypress
 Monogram[®] Double 4" Clapboard in Natural Clay
 Trim - Restoration Millwork[®] Trim in Natural White

specifications

- Two-piece laminated fiber glass-based construction
- Classic shades and dimensional appearance of natural wood or slate
- 250 lbs. per square

For U.S. building code compliance, see product specification sheets.

CertainTeed products are tested to ensure the highest quality and comply with the following industry standards:

Fire Resistance:

- UL Class A
- UL certified to meet ASTM D3018 Type 1

Wind Resistance:

- UL certified to meet ASTM D3018 Type 1
- ASTM D3161 Class F

Tear Resistance:

- UL certified to meet ASTM D3462
- CSA standard A123.5

Wind Driven Rain Resistance:

- Miami-Dade Product Control Acceptance: Please reference www.certainteed.com to determine approved products by manufacturing location.

Quality Standards:

- ICC-ES-ESR-1389

Landmark Pro Silver Birch is an ENERGY STAR rated product and may qualify for a federal tax credit.

warranty

- Lifetime limited transferable warranty against manufacturing defects on residential applications
- 50-year limited transferable warranty against manufacturing defects on group-owned or commercial applications
- 15-year StreakFighter[®] algae-resistance warranty
- 10-year SureStart[™] protection
- 15-year 110 mph wind-resistance warranty
- Wind warranty upgrade to 130 mph available. CertainTeed starter and CertainTeed hip and ridge required

See actual warranty for specific details and limitations.

LANDMARK[®] PRO color palette

max def colors - Look deeper. With Max Def, a new dimension is added to shingles with a richer mixture of surface granules. You get a brighter, more vibrant, more dramatic appearance and depth of color. And the natural beauty of your roof shines through.



** Not available in all areas*



Shown in Landmark Weathered Wood

easy selection

Add a little accent to your roof.

For a finishing touch to cap hips and ridges, CertainTeed offers Cedar Crest—available in colors to coordinate with your Landmark shingles. CertainTeed also offers Shadow Ridge, a low-profile design for capping hip and ridges. CertainTeed Swiftstart is recommended to be used as the starter course.



Shown in Landmark Driftwood



Color Companion Products™

With CertainTeed Flintlastic® SA, you can coordinate flat roof areas like carports, canopies and porches with your main roof. Flintlastic SA is a self-adhering low slope roofing product available in eight colors that match some of the most popular CertainTeed shingles. Ask your contractor for more information.

Lifetime limited transferable warranties, including 10-year SureStart™ protection, are applicable only in the United States, its territories and Canada; for products sold outside these areas, please refer to the International Warranty for specific details and limitations.

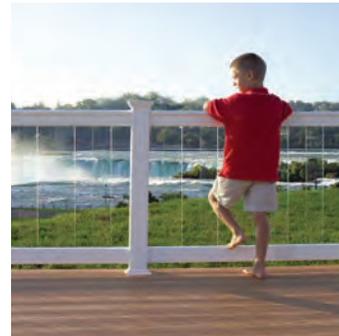
NOTE: Due to limitations of printing reproduction, CertainTeed can not guarantee the identical match of the actual product color to the graphic representations throughout this publication.



Your home is a reflection of your lifestyle.

From the way your furniture complements your wall colors to the way your roofline interacts with the landscaping.

 What does your home say about you?



Reaching for the ENERGY STARS.

As a 2015 ENERGY STAR Sustained Excellence recipient for Energy Management, we are proud of our commitment to designing high quality, sustainable roofing products.



The best formula under one roof. We start with the highest-quality raw materials and add state-of-the-art technology to monitor our manufacturing process and test our finished products. The result is superior performance from beginning to end.

Products available in areas shown



ASK ABOUT ALL OF OUR OTHER CERTAINTEED® PRODUCTS AND SYSTEMS:

ROOFING • SIDING • TRIM • DECKING • RAILING • FENCE
GYPSUM • CEILINGS • INSULATION

www.certainteed.com <http://blog.certainteed.com>

CertainTeed Corporation
20 Moores Road
Malvern, PA 19355

Professional: 800-233-8990
Consumer: 800-782-8777

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Code No. 20-20-1816



RAILING INFORMATION

Superior

Aluminum Railing

SERIES
9000

Meets OSHA, ADA and ICC Safety Criteria



Strong, Durable and Maintenance-Free Beauty!

www.superioraluminum.com



Heavy-Duty Aluminum Railing

Strong, Durable, and Maintenance-Free Beauty!

Superior Series 9000 Heavy-Duty Aluminum Railing offers the finest design features available on the market today. The highest quality aluminum alloy extrusions are used to provide maximum strength and support where it is needed most – in your installation.

Superior Heavy-Duty Railing utilizes all the advantages of aluminum: strong, durable, and rust- and corrosion-free. These characteristics make it a practical, sound investment for the budget-minded buyer.

The smart, contemporary design is an added plus. Our unique, no-weld design utilizes simple, cast aluminum fittings or machined openings for a no-hassle, easy installation.

Superior Heavy-Duty Railing can be found wherever clean design and safety are a must. It is an excellent choice for condominiums, apartments, hotels, churches, schools, commercial buildings and homes.

To make our railing even more versatile, decorative columns, inserts, and scrolls are available.

Superior Railing is available in any height. Standard heights include 42" for commercial railing, 36" for residential railing, and 72" for pool railing. Superior railing comes in standard 6' lengths, as well as custom lengths, in 2-line or 3-line styles. Ordering standard 6' lengths reduces lead times and cost.

Concealed Picket Screws



Series 9000 Heavy-Duty Railing features a screw cover to conceal picket screws on top and

bottom rail assemblies for a cleaner, more streamlined look.



9900 Railing (Style A), 902 Top Rail and Superior Panel Columns

Finishes

Smart, decorative finishes add a distinctive touch. Whether baked-on enamel, anodized, or duranodic, these finishes are guaranteed to endure for years of continued service and maintenance-free beauty.



Series 9000

9000 and 9900 Railing



Rails are inserted into machined post openings.

Series 9000 Heavy-Duty Railing features machined post openings on level and ramp railing, eliminating the need for brackets. The result is a clean, rigid design with added strength. If railing is

angled horizontally, the angle must be specified so the proper openings can be machined into the post. **Swivel brackets are required for step rail applications.** The top rail has a 2" wide gripping surface which meets all safety criteria. The machined post openings and assembled sections (standard 6' length or custom length) facilitate quick turn-around and overall savings for the customer.

Top Rail Selections



9000 RAILING

Features 2 1/2" square posts, 3/4" square pickets, and 905 top rail.



9900 RAILING

Features 2 1/2" square posts, 1 1/2" x 3/4" pickets, and 905 top rail.

Note: All top rail (901, 902, 905), posts (2", 2 1/2", 4"), and pickets (3/4" square, 3/4" x 1 1/2") are interchangeable.

Superior 9000 and 9900 Railing meets OSHA, ICC, and ADA criteria.



9000 Railing (Style B), 905 Top Rail



9000 Railing (Style B), 905 Top Rail



9900 Railing (Style A), 902 Top Rail

Railing Style Systems

Superior offers a variety of styles to fit any application.

Style A Standard Top Rail



9000 Railing (Style A), 905 Top Rail

Style B Open Double Top Rail



9000 Railing (Style B), 905 Top Rail

Style C Double Top Rail with Through Pickets



9000 Railing (Style C), 901 Top Rail

Through pickets can be spaced according to your preference. For example; every picket, every 2nd, 3rd, 4th picket, etc.

Style D Hand Rail (with mtg. brackets)

905 top rail or Superior Series 500 Pipe Rail can be used for hand rail applications.



905 Top Rail (Style D)

Customize your look!

Top rail, bottom rail, pickets, and posts are interchangeable for a completely custom look.

Interchangeable Top & Bottom Rail

All 901, 902, and 905 top rails are interchangeable. Standard 903 bottom rail can be substituted with 902 top rail. *See examples of 9000 Rail below.*



Option 1
905 Top Rail
903 Bottom Rail

Option 2
901 Top Rail
903 Bottom Rail

Option 3
902 Top Rail
903 Bottom Rail

Option 4
902 Top Rail
902 Bottom Rail



Option 5
905 Top Rail
903 Bottom Rail

Option 6
901 Top Rail
903 Bottom Rail

Option 7
902 Top Rail
903 Bottom Rail

Note:
3/4" sq. pickets
and 3/4" x 1 1/2"
pickets are also
interchangeable.

Interchangeable Post

All 2" or 2 1/2" square posts can be substituted with a 4" square post.



In the 9000 rail application above, 4" square posts are used for the end posts and a 2 1/2" square post is used for the crossover post.

Machined post openings are available for 2 1/2" and 4" square posts. A 4" machined post opening is shown above.



9000 Railing, Open Triple Top Rail, 905 Top Rail and Series 500 Pipe Rail Used for Hand Rail Application

**SERIES
9000**

**Meets ADA
Regulations**

9000 Railing Well-crafted lines

Superior Series 9000 Railing features well-crafted lines and an attractive, innovative design that lends itself well to almost any commercial, industrial, or residential application. It's beauty, strength and durability will enhance the quality of your construction project.

9900 Railing Clean, rigid design

Superior Series 9900 Railing offers all the features of Series 9000 Railing, with the addition of 1 1/2" wide pickets. This robust alternative results in a strong, rugged design with a clean, refined appearance.



9000 Railing (Style C), 905 Top Rail



**No brackets on level
and ramp railing!**



9000 Railing (Style B), 905 Top Rail



9000 Railing (Style A), 905 Top Rail and Series 500 Handrail



9900 Railing (Style A) with 902 Top Rail and Superior Aluminum Square Panel Columns



9000 Railing (Style A), 902 Top Rail

9000 Railing (Style A), 905 Top Rail



**Swivel brackets are
required for all step
rail applications.**



9900 Railing (Style A), 902 Top Rail and Superior Aluminum Square Panel Columns



Continuous Top Rail

Unlike some other railing companies, Superior manufactures crossover posts for your rail system. The advantage of using these posts is a continuous top rail surface. Not only is this feature attractive, but it also allows for an uninterrupted gripping surface.

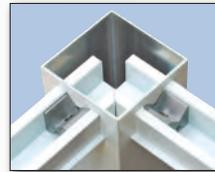
Easy Assembly and Installation!



9000 Railing (Style B), 905 Top Rail, GaSt Fleur De-Lis Inserts and Post Ball Cap



View of the underside of bottom rail to show rail wedge location.



Series 9000 Railing is not only easy to assemble and install, but the machined post openings and factory assembled sections facilitate quick turn-around and cost savings.

All posts are machined with openings to receive the top and bottom rails. As assembled railing is inserted into the openings, a rail wedge located in the bottom rail will ensure proper insertion of 1 1/4" inside the post.

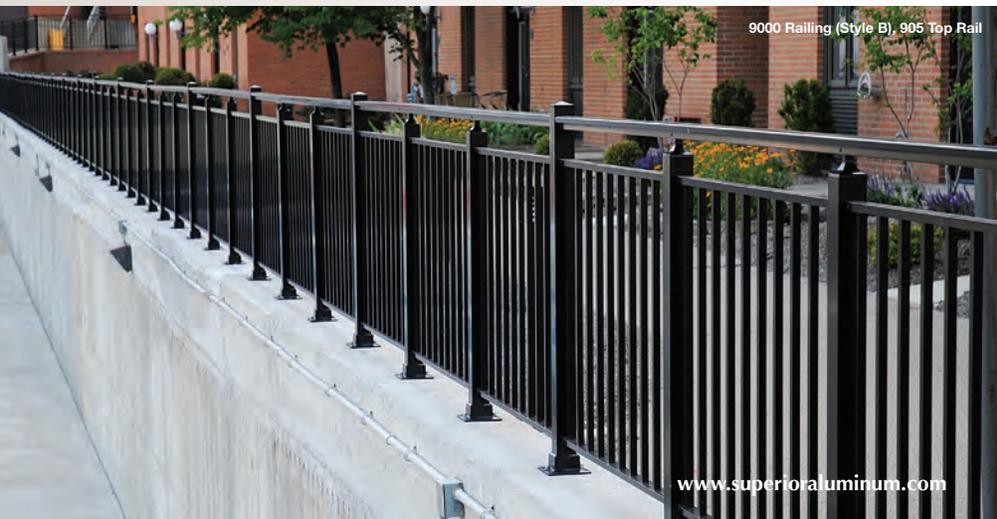


View of the top rail without post cap to show rail tabs.

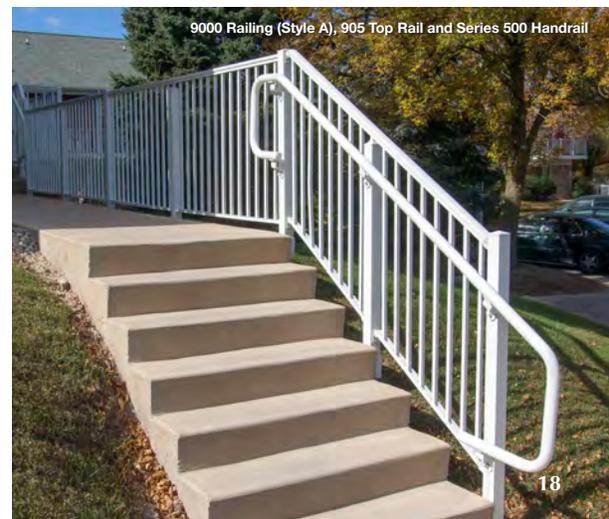
Predrilled rail tabs are provided with the post to connect the top rails. If a railing section or sections need to be shortened, simply saw an equal amount from each railing end with the use of a miter or circular saw. Reinstall and tighten the rail wedge using an 1/8" Allen Wrench on the bottom rail so 1 1/4" protrudes through the post openings. Next, connect the two top rails together with a rail tab, and drive the post cap in place with a rubber mallet.



9000 Railing (Style A), 905 Top Rail and Series 500 Handrail



9000 Railing (Style B), 905 Top Rail



9000 Railing (Style A), 905 Top Rail and Series 500 Handrail

Custom Applications

Superior Aluminum offers a variety of custom applications. These include, but are not limited to, attractive gates with custom locks, cast aluminum X-Inserts, an extruded X-Pattern System, and custom rail lengths and heights. Call Superior Aluminum to discuss your needs.



Ask about our extruded X-Pattern System (shown above and to the left) and cast aluminum X-Inserts (shown below).

Extruded X-Pattern System with Superior Panel Columns on balcony and Superior Fiberglass Columns below.



9000 Railing with Cast Aluminum X-Inserts



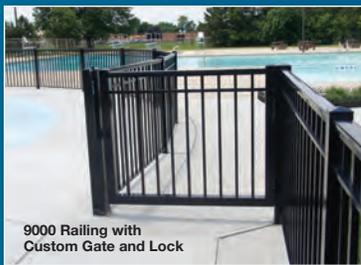
Cast Aluminum X-Inserts



9000 Railing with Custom Gate and Lock

Superior Aluminum manufactures attractive gates with custom locks upon request.

Ask about Series 2000 Cable Railing for a contemporary look.



9000 Railing with Custom Gate and Lock



9000 Railing with Custom Gate and Lock



Series 2000 Cable Railing

MATERIALS -

(For 9000, 9900 Railing)

All rails, posts, and pickets shall be formed from 6063-T5 & 6063-T6 extruded aluminum alloys. All railing accessories shall be cast from industry standard aluminum alloys according to the requirements of the application. All exposed fasteners used in the system shall be aluminum or stainless steel.

INSTALLATION -

The railing system can be either base mounted, side mounted or embedded into concrete.

Pickets shall run between the top and bottom rail.

(For 9000 Railing)

Pickets shall be 3/4" square on 4 1/2" centers.

(For 9900 Railing)

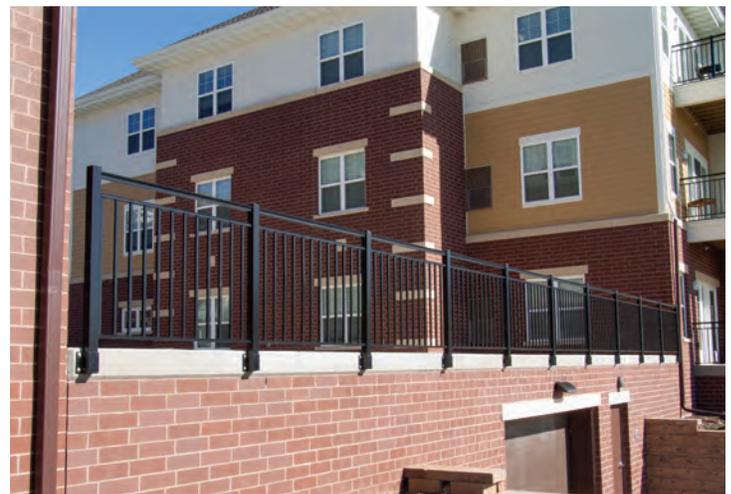
Pickets shall be 1 1/2" x 3/4" on 5 1/4" centers.

The railing system will adapt to step railing requirements by providing the riser and tread dimensions of the steps and specifying a rectangular hole in the bottom rail.

SCOPE OF WORK -

Aluminum railings as shown on drawings shall be Superior Series 9000 Heavy-Duty Aluminum Railings, as manufactured and supplied by Superior Aluminum Products, Inc., Russia, Ohio 45363.

Series 9000 Railing meets federal safety requirements as determined by an independent testing laboratory. Test results available upon request. Superior Series 9000 Railing is protected by US Patent #3707276.





555 East Main • P.O. Box 430 • Russia, OH 45363
937-526-4065 • Fax: 937-526-3904
info@superioraluminum.com • www.superioraluminum.com



Light Bronze
Railings & Fence only



Tan / Wicker
Columns, Railings & Fence



Satin Anodized
Railings & Fence only



Almond
Columns, Railings & Fence



Dark Bronze
Railings & Fence only



Sandstone / Clay
Columns, Railings & Fence



Green
Railings & Fence only



Brown
Columns, Railings & Fence



Black
Railings & Fence only



White
Columns, Railings & Fence

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