



**Proposed Window Replacement for
1721 University Ave SE, Minneapolis, MN 55414**

**HERITAGE PRESERVATION APPLICATION – PROPOSED USE OF PROPERTY LOCATED AT
1721 UNIVERSITY AVENUE SE, MINNEAPOLIS, MINNESOTA 55414**

The property described is currently a student co-operative housing building and will remain the same student co-operative student building except for the replacement of existing aluminum and wood windows most of which were installed around 1975.

The replacement aluminum clad wood (University Avenue Elevation) and wood/fibrex (all other elevations) will more closely replicate the original wood windows and provide greatly improved air & water infiltration resistance performance along with ease of operation and cleaning features not available on the current windows.

The alteration is compatible with and continues to support the criteria of significance and period of significance for which the landmark or historic district was designed.

The alteration is compatible with and supports the exterior designation in which the property was designated.

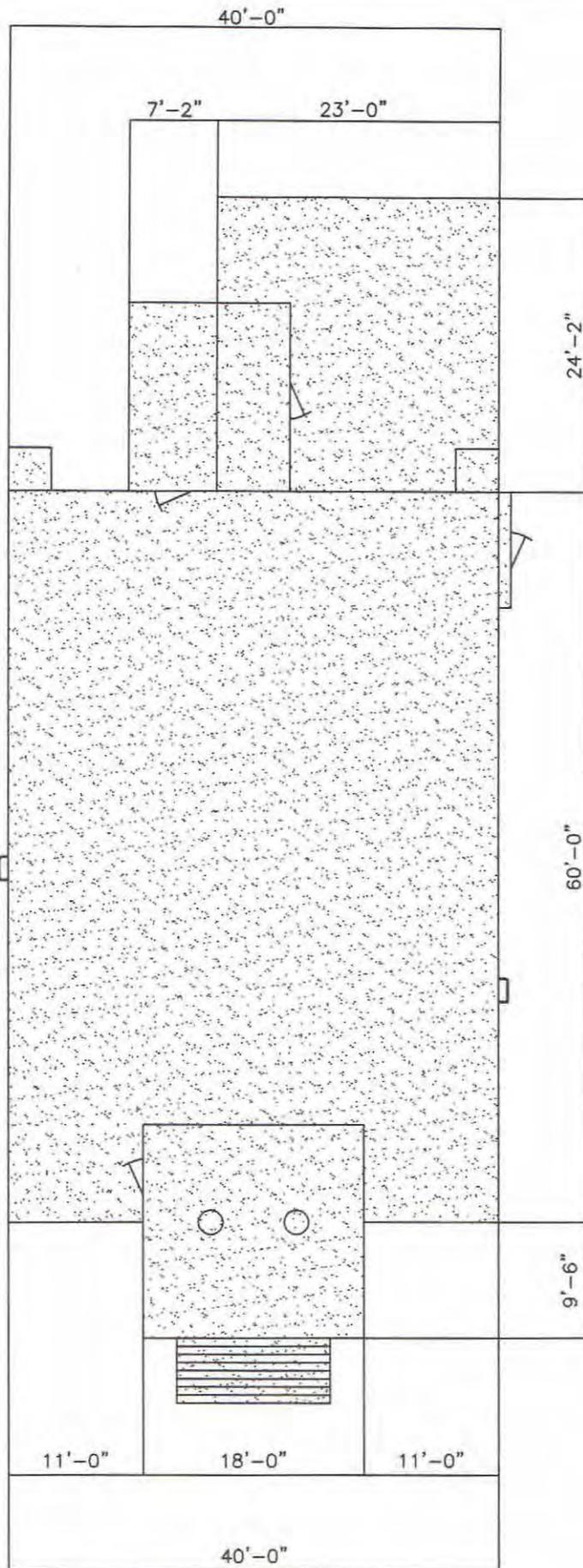
The alteration is compatible with and will insure continued integrity of the historic district for which the district was designated.

The alteration will not materially impair the significance and integrity of the historic district as evidenced by the consistency of alterations with the applicable design guidelines adopted by the commission.

The alteration will not materially impair the significance and integrity of the historic district as evidenced by the consistency of alterations with the recommendations contained in The Secretary of the Interior's Standards for the Treatment of Historic Properties.

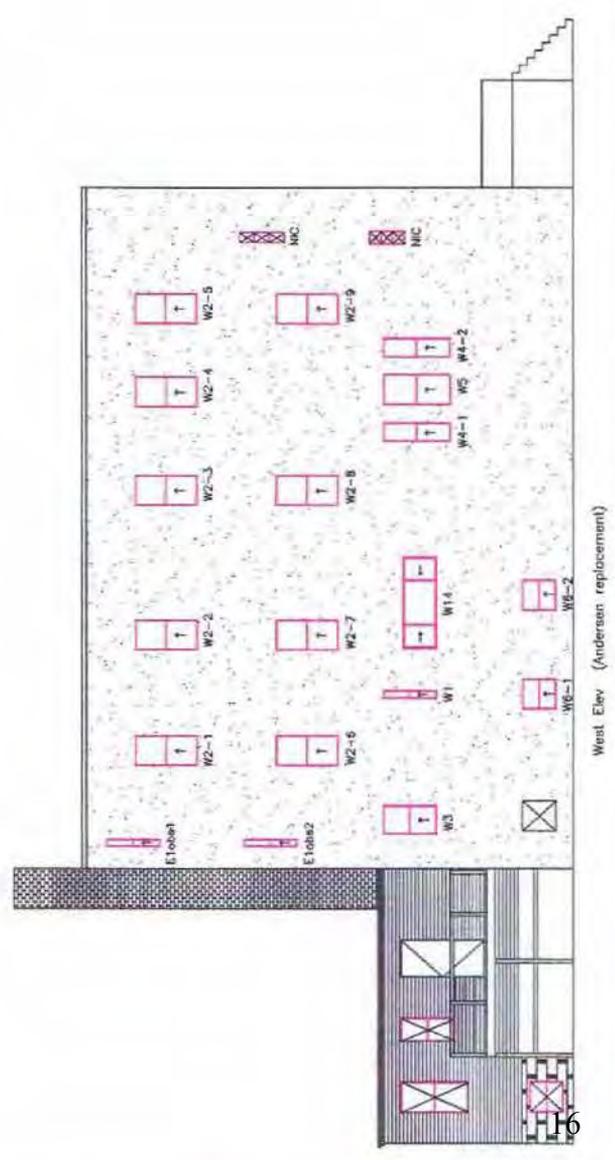
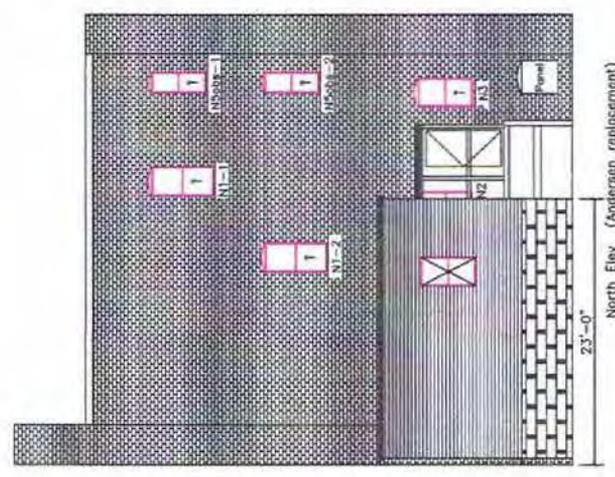
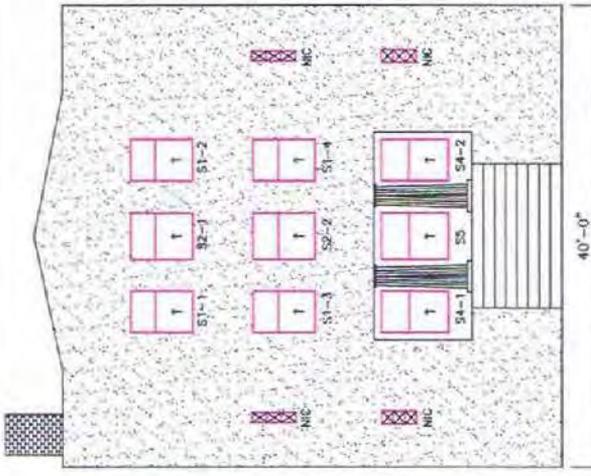
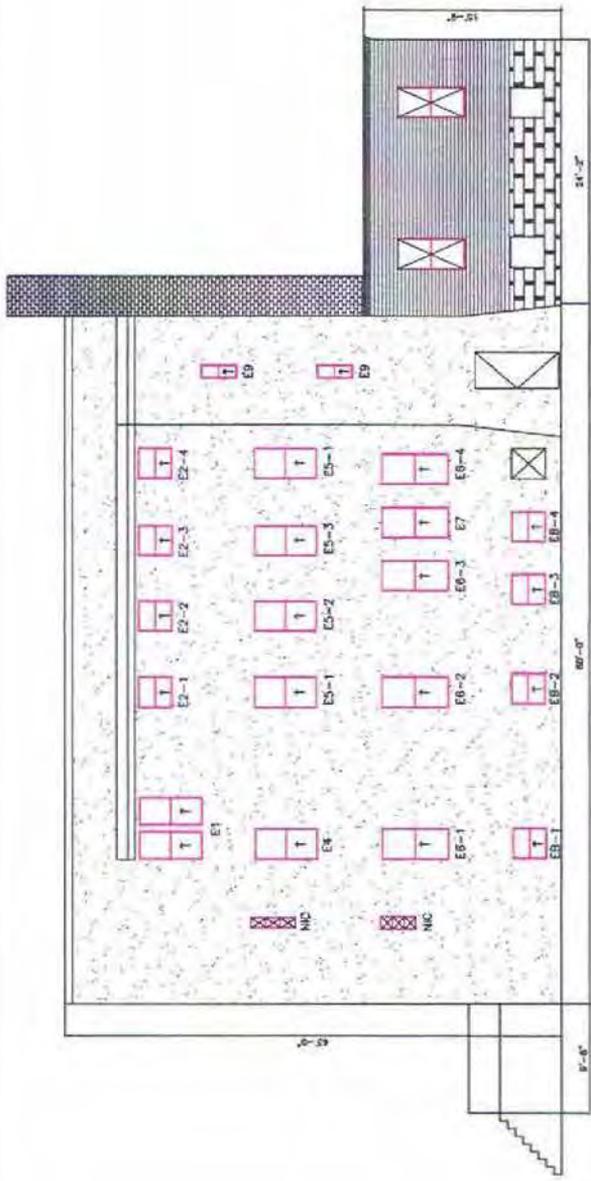
The certificate of appropriateness conforms to all applicable regulations of this preservation ordinance and is consistent with the applicable policies of the comprehensive plan and applicable preservation policies in small area plans adopted by the city council.

Attached are the window specifications for the JeldWen EX Aluminum Clad Wood Double Hung Window And the Andersen Windows Series 100 Wood/Fibrex Single Hung Window proposed including color samples.



FLOOR PLAN
 STUDENTS CO-OPERATIVE HOUSING
 SCALE 1/16" = 12"
 AUGUST 15, 2001 by Beckerwoods

STUDENTS CO-OPERATIVE INC.
 1721 UNIVERSITY AVE. S.E.
 MINNEAPOLIS, MN 55414





Typical Existing Frame/Sash Damage Window Head



Typical Existing Frame/Sash Damage Window Sills

**Student Cooperative Housing
1721 University Ave SE**

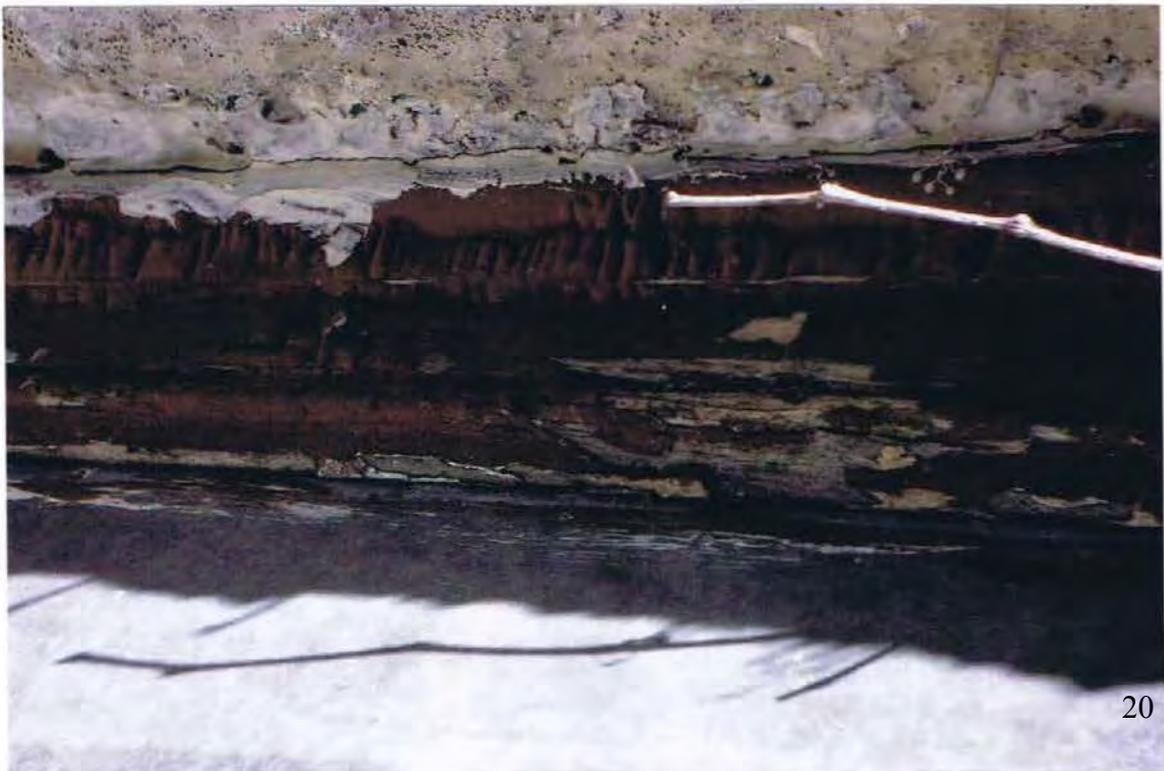
Interior Damage



**Student Cooperative Housing
1721 University Ave SE**



Typical Wood Damage



















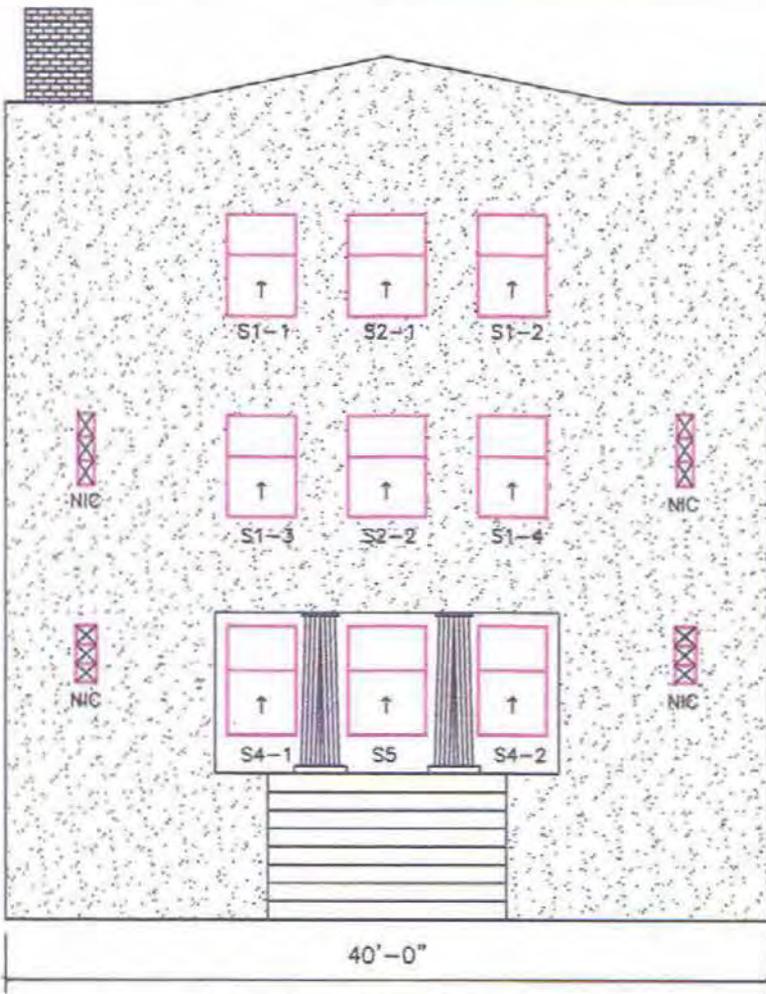








South Elevation



South Elev (Jed-Wen replacement)



Typical Existing Wood Window South Elevations

Student Cooperative Housing
1721 University Ave SE

South Elevation

S1-1



Student Cooperative Housing
1721 University Ave SE

South Elevation

S1-2



Student Cooperative Housing
1721 University Ave SE

South Elevation

S1-3



Student Cooperative Housing
1721 University Ave SE

South Elevation

S1-4



**Student Cooperative Housing
1721 University Ave SE**

South Elevation

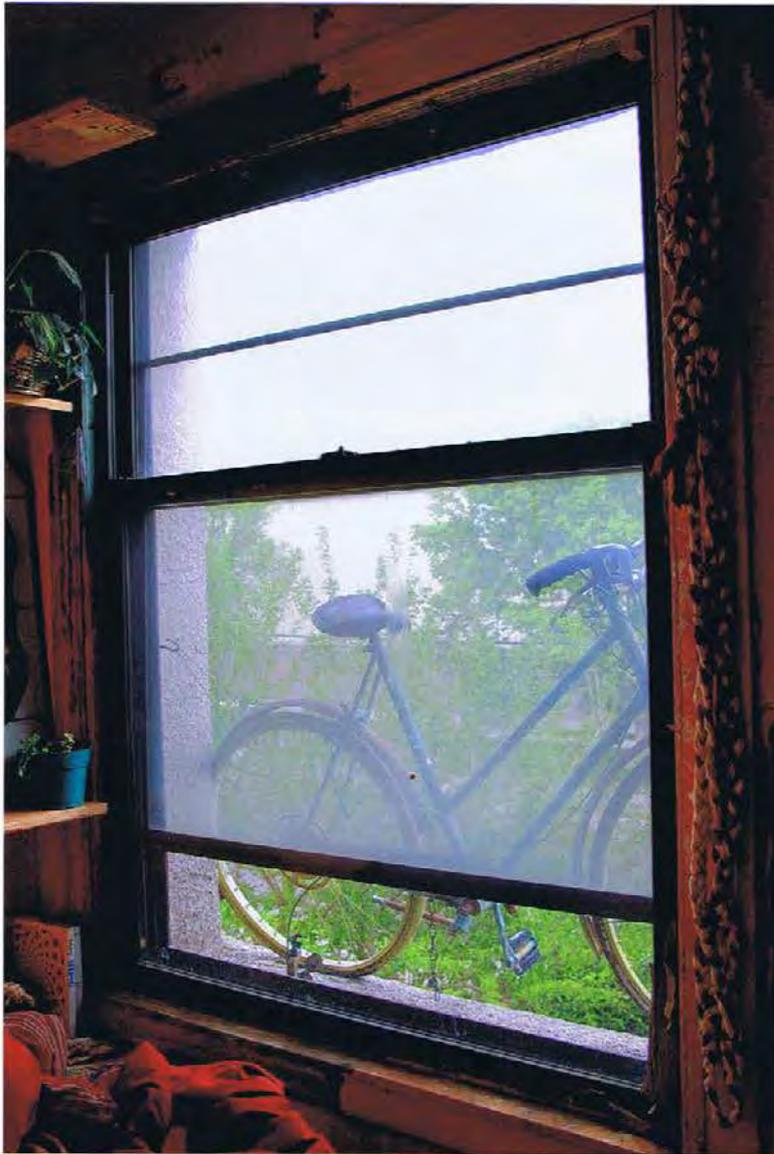
S2-1



Student Cooperative Housing
1721 University Ave SE

South Elevation

S2-2



Student Cooperative Housing
1721 University Ave SE

South Elevation

S4-1



Student Cooperative Housing
1721 University Ave SE

South Elevation

S4-2



Student Cooperative Housing
1721 University Ave SE

South Elevation

S5



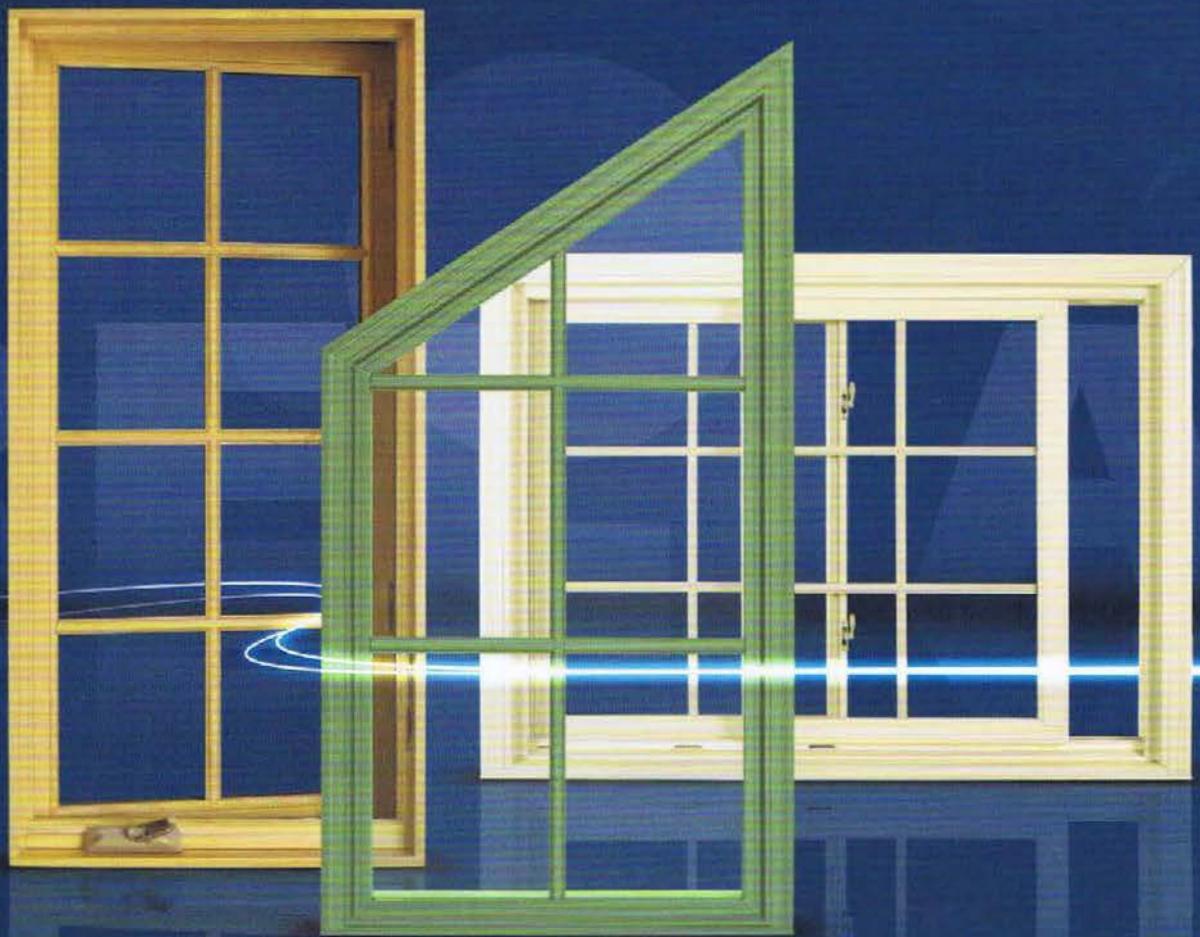


THE PERFECT BALANCE OF LUXURY AND PRACTICALITY

THERE ARE LUXURIES IN LIFE THAT AREN'T TIED TO MONEY.

At JELD-WEN, we understand this idea, which is why we craft reliable Siteline EX wood windows and patio doors. Each one is designed to enhance homes with exceptional beauty and energy efficiency at a great value. These windows and patio doors also provide dependable performance time and time again. They're simply worry-free, which, of course, is the best luxury of all.

From clean and streamlined to charming and ornate, we offer a full range of styles and options. Our selection ensures you'll find the perfect windows and patio doors to meet all your requirements.





For the complete line of JELD-WEN®
windows and doors, visit us online
at www.jeld-wen.com

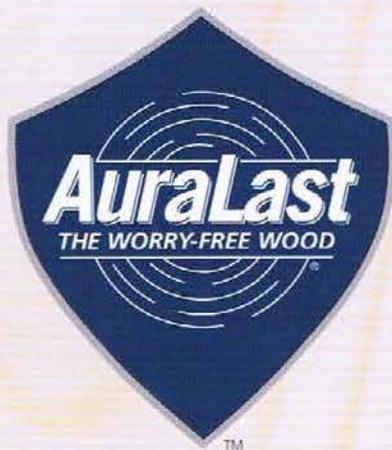




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windows and doors, visit us online
at www.jeld-wen.com

We care

AuraLast®—JELD-WEN's proprietary, water-based, vacuum-pressure process produces 96% fewer volatile organic compounds (VOCs) than the solvent-based dip-treat process used by other manufacturers.



WORRY



Working with AuraLast® Wood is easy.

Virtually 100% surface to core protection; nail and screw holes and trimming and sanding will not compromise the shield of AuraLast protection. Other manufacturers use dip-treated wood which has only surface protection.

Only JELD-WEN makes windows, patio doors, exterior doors, door frames and exterior trim boards with solid pine AuraLast The Worry-Free Wood, which offers superior protection from wood rot, water saturation and termites.

WORRY FREE



Protects against wood rot

AuraLast Wood windows and patio doors, wood doors, frames and components maintain their structural integrity even in the harshest weather and toughest climates.

Protects against water saturation

AuraLast Wood offers superior resistance to water saturation, which helps protect against swelling and preventing the window or door from sticking.

Protects against termite infestation

Harmful termites will eat through unprotected wood—not so with AuraLast Wood.



We offer the industry's only 20-year limited warranty against wood rot and termites.

Visit jeld-wen.com/lauralast for more information

INTERIOR

Interior Wood Species

Increase a home's sense of visual harmony by choosing optional interior wood species to coordinate with trim, cabinetry and furnishings. In addition to pine AuraLast® Wood, we offer alder, which features a fairly straight grain that blends well with cherry, maple or birch grain and knotty patterns.



Pine AuraLast Wood



Alder



Mixed Grain Douglas Fir

Standard Prefinished interiors

Custom options available

1. Primed
2. Brilliant White
3. Ivory
4. Desert Sand
5. Clear Lacquer
6. Wheat
7. Cider
8. Fruitwood
9. Cordovan
10. Walnut



*Colors shown may not match final finish.



Interior Trim

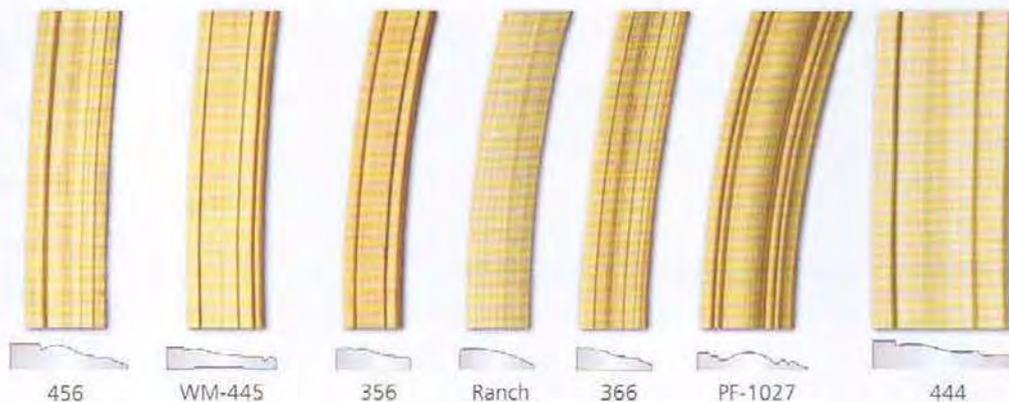
Interior radius casings are available in both pine and oak for radius (rounded) windows and patio doors. These casings come in several patterns. Corner blocks in pine and oak are also available.



Pine Corner Block

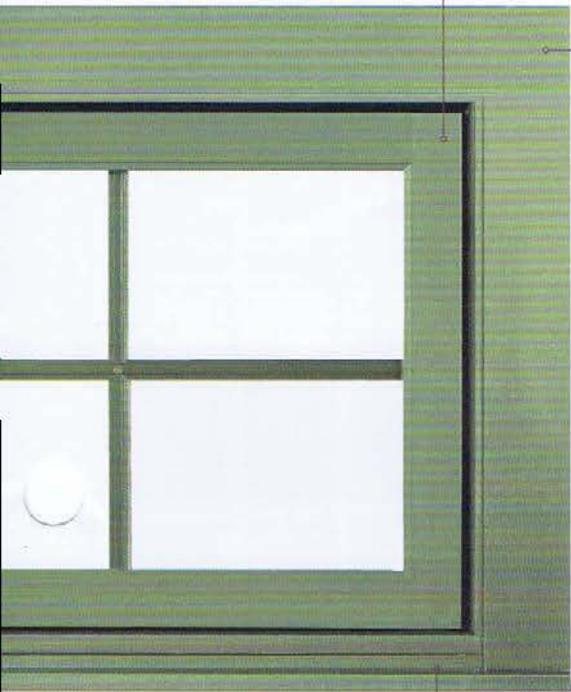


Oak Corner Block





EXTERIOR



Exterior Wood Species



Pine AuraLast Wood



Primed

Trim Options

Primed Wood



2" Flat



3-1/2" Flat



4-1/2" and 5-1/2" Flat



Brickmould



RB-3



Adams



Heritage



1" x 4" Backband



2" Historically Accurate Sill Nosing

Clad



Extruded Brickmould



3-1/2" Flat



Adams



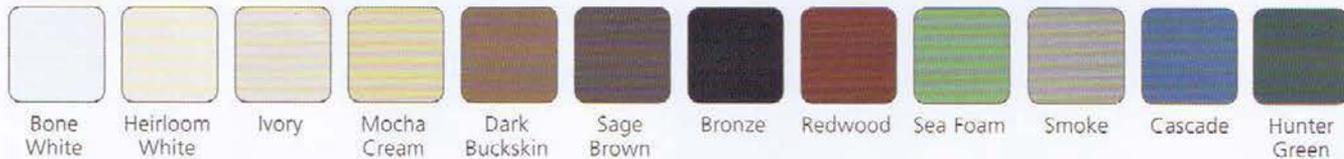
Standard Sill Nosing

Clad Colors*

Our windows and patio doors with clad-wood exteriors feature protective metal cladding with a baked-on finish that doesn't need to be repainted over time. We provide a number of clad color options, so you can pick a finish that will complement your home.



Optional Colors



*Actual colors may vary from the samples displayed.

ENERGY SAVING GLASS

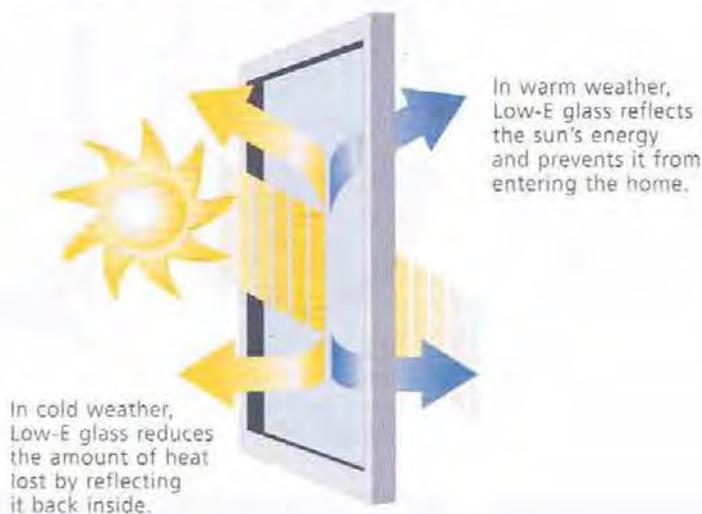
Glass Options

Low-E, LoE³-366 and Low-E EC Insulating Glass

Our standard high-performance Low-E insulating glass lowers energy costs, helps homes stay cooler in the summer and warmer in the winter, prevents fading of interior furnishings, and reduces condensation. It also delivers greater visible light transmittance than tinted glass.

We also offer optional LoE³-366, which provides more protection against solar heat gain and fading, as well as greater energy savings.

For even more protection choose Low-E EC for an "extra coating" that improves the thermal performance of our windows and is the optimal solution for ENERGY STAR® in certain regions of the country as well as meeting the requirements for the .30/.30 stimulus tax credit.



ENERGY STAR®

JELD-WEN has been an energy star partner since 1998, and is a 2010 ENERGY STAR Partner of the Year in the U.S. and 2009 ENERGY STAR Participant of the Year in Canada.



Preserve® Protective Film

Preserve film is standard for all Sitrine EX windows and patio doors. It is factory-applied to both the interior and exterior surfaces of the glass. This means the glass surfaces will be reliably protected from debris and scratches that can occur during shipping and handling or at a construction site, so you won't need to spend extra time cleaning your new windows and patio doors. What's more, it's easy to remove.



Neat® Glass

With this glass option you gain natural cleaning convenience. By harnessing the sun's UV rays (even when the sky is cloudy) to loosen dirt from the glass, rainwater can easily rinse away grime. No manual activation is required.



DECORATIVE GLASS

Siteline EX windows can be ordered with decorative glass. Choose from standard glass and coming options here, or send us a sketch or picture of your ideas. We can build nearly anything you can imagine.



Contemporary Collection

Modern and bold with a unique look certain to add to modern day homes.



Estate Collection

Fits many types of architecture and has straight bold lines adding to the decor of any home.



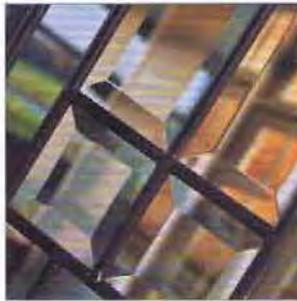
Classic Collection

This elegant collection adds a distinct and timeless design element to any home.



Craftsman Collection

A tried and true design that represents a theme that has stood the test of time.



CAMING SELECTIONS: Choose one of our five coming selections to determine how your glass will appear.



Satin Nickel



Copper



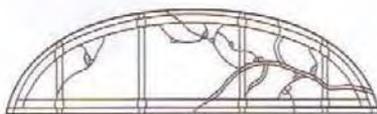
Patina



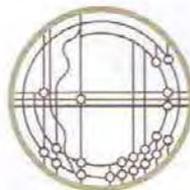
Brass



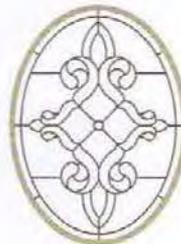
Zinc



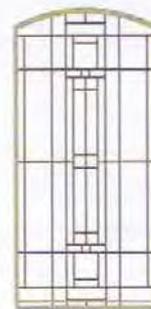
Custom Design Inspired By Vineyard



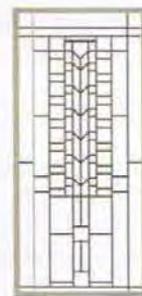
Contemporary



Classic



Estate



Craftsman

JELD-WEN® WOOD AND METAL-CLAD WOOD WINDOW & PATIO DOOR LIMITED WARRANTY

OUR WARRANTY TO YOU...

JELD-WEN® Products¹ are designed to create lasting value for your home. This warranty is effective for all JELD-WEN Products manufactured on or after July 1, 2010 for use in the United States and Canada. Any previous warranties will continue to apply to products manufactured by JELD-WEN prior to this date. For additional information, including care and maintenance instructions, installation instructions and previous warranties, refer to www.jeld-wen.com or www.jeld-wen.ca.

What This Warranty COVERS

Twenty Year Warranty for Window & Patio Door Products

Except as set forth in the Special Coverages section below, we warrant that if your JELD-WEN Product exhibits a defect in material or workmanship within twenty (20) years from the date of manufacture, we will, at our option, repair, replace or refund the purchase price of the Product or component part. Skilled labor² (where deemed necessary by us) to repair or replace components is provided for two (2) years (unless specified otherwise below).

Special Coverages

Clad Finish*: Under normal atmospheric conditions, the clad finish on your metal clad window or patio door manufactured by us will be free from defects as follows:

- Kynar® finishes are warranted for twenty (20) years and will not peel, check, crack, or exhibit excessive chalk, fade or color change³.
- All other products that include polyester finishes are warranted for ten (10) years and will not peel, check, crack, or exhibit excessive chalk, fade or color change³.

*The term "clad finish" means the painted finish on metal cladding. Clad products installed within one mile of a salt-water source (for example and ocean or salt lake) or other corrosive environment require additional and specific maintenance requirements. Refer to our full care and maintenance instructions.

Auralast® Protection: We warrant pine wood components of JELD-WEN Products for twenty (20) years against wood cellular structure failure (often referred to as "wood cellular breakdown") caused by decay and/or termites. Warranty coverage outside Canada, the contiguous 48 states and Alaska is contingent upon approval from the JELD-WEN Customer Care Department. Please contact us.

Factory Prefinish: We warrant the factory-applied prefinish on our Products against peeling, checking, or cracking for one (1) year from the date of manufacture. Should the factory prefinish be proven defective within this time period, we will at our option, replace or refinish the component or product, or offer a refinish credit up to \$50 per opening for windows or \$100 per opening for patio doors. Note: this coverage applies to factory-applied finish coat options only; standard factory-applied primer is not a finish coat.

Custom Fiberglass Door Slabs: We warrant our fiberglass door slabs for as long as you own and occupy your residence.

Custom Fiberglass Door Factory Prefinish: We warrant the factory prefinish on our fiberglass doors for five (5) years. Should the factory prefinish be proven defective, we will at our option refinish the door or pay up to \$350.00 per opening to the current owner.

Electric Operators: We warrant electric operators provided by us for one (1) year (to include free replacement parts and skilled labor² necessary to replace the operator for one (1) year).

Blinds/Shades Between the Glass: We warrant the insulated glass unit (including the seal), the external control mechanism, and the operation of the shade/blind for ten (10) years.

ImpactGard® Glass: We warrant each ImpactGard glass unit for ten (10) years.

Special Glazings (including laminate glass units other than ImpactGard): We warrant special glazings (including glass options not listed in our product literature e.g., leaded or decorative glass) for five (5) years.

Spontaneous Glass Breakage: We warrant sealed glass units installed in windows and patio doors (excluding laminated glass, and special glazings) for spontaneous breakage for one (1) year (to include free replacement glass and skilled labor² necessary to replace the glass for one (1) year. Spontaneous breakage occurs when the glass develops a crack without sign of impact.

Transferability

In the event you sell your residence/building, this warranty is transferable to subsequent owners. In the event you sell your residence/building or it becomes occupied by other than the original owner, the warranty is the lesser of ten (10) years from the date of manufacture or the period indicated under Special Coverages above.

How To Get Assistance

If you have a problem with your JELD-WEN product, contact the dealer/distributor or contractor from whom you purchased your product or contact us directly:

In the United States:

Mail: JELD-WEN Customer Care
Attn: Wood/Metal Clad Wood Warranty Claims
P.O. Box 1329, Klamath Falls, OR 97601
Phone: 888-JWHelpU (888-594-3578)
Fax: 800-436-5954
Email: CustomerServiceAgents@jeld-wen.com

In Eastern Canada:

Mail: JELD-WEN Service Department
90, rue Industrielle
Saint-Appollinaire, Quebec, Canada G0S 2E0
Phone: 800-463-1930
Fax: 888-998-1599

In Western Canada:

Mail: JELD-WEN Service Department
550 Munroe Avenue
Winnipeg, Manitoba, Canada R2K 4H3
Phone: 888-945-5627
204-668-8230
Fax: 204-663-1072
Email: wpgservice@jeld-wen.com

We can respond quickly and efficiently if you provide the following: a) product identification (from the original order/invoice, spacer code, permanent label, or the window identification number found on corner of glass, or product identification from the tag on the top edge of the slab), b) how to contact you, c) the address where the product can be inspected, and d) a description of the apparent problem and the product (photographs are helpful).

What We Will Do

Upon receiving your notification, we will send out an acknowledgement, usually within three business days. We will investigate your claim and will begin to take appropriate action within 30 days after notification. If it is determined that the Product does not have a defect covered by the labor warranty, we may charge an inspection fee for any onsite inspection that is required or requested by you. Because manufacturing materials and techniques can change, replacement part(s) may not be an aesthetic match to the original. Replacement components/products are warranted for the balance of the original product warranty or 90 days, whichever is longer. If we determine we are unable to provide replacement parts and repair is not practicable or cannot be made timely, then we will refund the unit/component purchase price.

If the claimed nonconformity is warp of a door slab, we may defer repairing or replacing the door slab for a period up to twelve (12) months from the date of claim. It is not uncommon for a temporary warp condition to occur as the door slab adjusts to local humidity and temperature conditions. This deferral will not be counted against the warranty period.

What This Warranty Does NOT Cover

JELD-WEN is not liable for:

- Normal wear and tear, including normal wear and tear of weatherstrip; natural weathering of surfaces. Variance in color or texture of natural wood parts, and natural tarnishing of copper cladding are not considered defects.
- Normal wear and tear to hardware and naturally occurring changes to hardware finishes (e.g., corrosion or tarnishing).
- Damage caused by chemicals (e.g. brick wash) or a harsh environment (e.g. salt spray or airborne pollutants) unless otherwise stated above.
- Product failure due to misuse or abuse; damage caused by failure to properly finish and provide maintenance, by alteration or modification to the window (e.g. customer applied tints or films, paint finishes, security systems), or as a result of any cause beyond the control of JELD-WEN (e.g. fire, flood, earthquake, other acts of nature, and acts of third parties outside of our control).
- Failure to provide an adequate overhang for fiberglass doors; damage caused by extreme temperature buildup where storm doors are present. For general guidelines, see our "Appropriate Protection for Exterior Doors" in our product literature or at www.jeld-wen.com/resources; for specific information pertaining to your structure, consult your contractor or other building professional.
- Slight expansion or contraction due to varying environmental conditions; slab movement (shrinkage or swelling) of 1/4" or less due to temperature and humidity, consult the Homeowner's Manual on how to work with this natural movement.
- Glass breakage (except spontaneous breakage as covered above).
- Slight imperfections or wavy distortions in the glass that don't impair structural integrity. Note: wavy distortions in the glass (e.g. related to laminate interlayer or heat strengthening of glass) are not considered a defect. Slight color variations in glass are not considered a defect.
- Improper installation not in conformance with JELD-WEN installation instructions (note: see www.jeld-wen.com for current installation instructions); operational problems and problems related to water and/or air infiltration/leaking as a result of improper installation or flaws in building design or construction.
- Damage or poor product performance resulting from installation into a condition that exceeds product design standards and/or certified performance specifications and/or is not in compliance with building codes.
- Damage caused by extreme artificial temperature buildup or exposure (e.g., where storm doors/windows are present).
- Product or component performance decline due to aging, inert gas dissipation, natural processes or failure to provide proper maintenance. Note: Other than inert gas loss due to seal failure, the migration of an inert gas, such as argon, is a natural process that occurs over time and is not a defect.
- Screen damage due to normal wear and tear, misuse, abuse, or insect or animal activity.
- Hardware or inserts that are not provided by us, such as locksets, door handles, strikes, etc.
- Condensation or damage as a result of condensation (Note: unless due to insulating glass failure, most condensation problems are related to excessive humidity levels in a structure; contact a heating/air conditioning specialist for help).
- Labor and materials for repainting or refinishing activities, or the removal or disposal of defective product(s); labor exceeding the time periods specified above.
- Wood cellular structure failure for wood components other than of pine species and any components (including pine) that come in direct contact with soil. Note: superficial mold/mildew does not indicate wood cellular structure failure.
- Incidental or consequential damage. Some states/provinces do not allow the exclusion or limitation of incidental or consequential damages, so this may not apply to you.

Important Legal Information

This Limited Warranty document sets forth our maximum liability for our products. We shall not be liable for special, indirect, consequential, or incidental damages. Your sole and exclusive remedy with respect to any and all losses or damages resulting from any cause whatsoever shall be as specified above. We make no other warranty or guarantee, either express or implied, including implied warranties of merchantability and fitness for a particular purpose to the original purchaser or to any subsequent user of the product, except as expressly contained herein. In the event state or provincial law precludes exclusion or limitation of implied warranties, the duration of any such warranties shall be no longer than, and the time and manner of presenting any claim thereon shall be the same as, that provided in the express warranty stated herein. This Limited Warranty document gives you specific legal rights, and you may have other rights that vary from state/province to state/province.

No distributor, dealer or representative of JELD-WEN has the authority to change, modify or expand this warranty. The original purchaser of this Product acknowledges that they have read this warranty, understand it and are bound by its terms and agrees to provide this warranty to the original owner of the structure into which the Product is installed.

- 1 "JELD-WEN Products" shall refer to wood and metal clad wood window and patio/garden/terrace door products (including products supplied with fiberglass slabs) manufactured in the United States and/or Canada and marketed under the JELD-WEN brand name for use in the United States and Canada. See our separate Export Warranty for applicable coverage on products used outside the United States and Canada.
- 2 "skilled labor" refers to tasks where specialized technical knowledge, experience, methods or tools are required to properly identify, diagnose and/or correct product-related problems.
- 3 "Chalking" of the clad finish is not a defect unless it exceeds a numerical rating of eight (8) when measured in accordance with the standard procedures specified in ASTM D4214. Fading or changing in color of the "clad finish" is not a defect unless it exceeds five (5) E units, calculated in accordance with ASTM D2244, paragraph 6.2. Color change shall be measured on an exposed "clad finish" that has been cleaned of surface soils and chalk, and the corresponding values measured on the original or unexposed "clad finish." Fading or color changes may not be uniform if the surfaces are not equally exposed to the sun and elements. If the above ASTM standards change, the standard in effect at the time of purchase applies. As an option to replacement, we may choose to refinish the product.

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(Specifier Note: The purpose of this guide specification is to assist the specifier in correctly specifying JELD-WEN® Premium Metal-Clad Wood Silestone Windows and their installation. The specifier needs to edit these guide specifications to fit the needs of each specific project. Contact a JELD-WEN representative to assist in appropriate product selections. Throughout the guide specification, there are Specifier Notes to assist in the editing of the file. The term Architect is used throughout these guide specifications and may be revised to read "Design Professional", "Engineer", "Owner" or other appropriate designation as required for specific projects.

References have been made within the text of the specification to MasterFormat 2004 Section numbers and titles, specifier need to coordinate these numbers and titles with sections included for the specific project. Brackets []; "AND/OR"; and "OR" have been used to indicate when a selection is required, in most cases the first option is the standard feature, and optional features are indicated in brackets. Some options may require additional lead-time, if this is a consideration, contact a JELD-WEN representative for assistance.)

**SECTION 08 52 13.00.PREMIUM SILESTONE EX
METAL-CLAD WOOD WINDOWS**
JELD-WEN® Premium Metal-Clad Wood Silestone Windows

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Awning Windows
- B. Casement Windows
- C. Double-Hung Windows
- D. Horizontal Sliding Windows
- E. Radius and Geometric Windows

1.2 REFERENCES

- A. American Architectural Manufacturer Association (AAMA)
 - 1. ANSI/AAMA/NWDA 101/1.S.2 /NAFS; Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors
 - 2. AAMA 2603; Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels
- B. National Fenestration Rating Council (NFRC)
 - 1. NFRC 100; Procedure for Determining Fenestration Thermal Properties

2. NFRC 200; Solar Heat Gain Coefficient and Visible Transmittance

C. Window & Door Manufacturers Association (WDMA)

1. WDMA I.S.4; Water Repellent Preservative Non-Pressure Treatment for Millwork

1.3 DESIGN REQUIREMENTS

A. Provide windows capable of complying with requirements indicated, based on testing manufacturer's window that are representative of those specified and that are of test size required by ANSI/AAMA/NWDA 101 I.S.2/NAFS.

(Specifier Note: Include window design pressure (DP) ratings as part of the performance requirements. Required DP will vary dependent on project site, the location in the building and window size. Coordinate DP with the Structural Engineer. DP ratings and related window size and style are available at www.jeld-wen.com or by contacting a JELD-WEN representative.)

B. Structural Requirements – Provide windows capable of complying with requirements indicated:

1. Design pressure: [Insert value] [as indicated on drawings]

(Specifier Note: Include NFRC ratings as part of the performance requirements. NFRC ratings qualifying for the Energy Star program are based on the performance of the whole window assembly. Qualifying windows vary to fit the needs of different regions throughout the country. NFRC ratings and related JELD-WEN window size and styles are available at www.jeld-wen.com or by contacting a JELD-WEN representative.)

C. NFRC Requirements – Provide windows capable of complying with the following total window ratings:

1. U-Factor: [Insert value] in accordance with NFRC 100.

2. Solar Heat Gain Coefficient (SHGC): [Insert value] in accordance with NFRC 100.

3. Visible Transmittance (VT): [Insert value] in accordance with NFRC 200.

1.4 SUBMITTALS

A. Refer to Section [01 33 00 Submittal Procedures] [Insert section number and title].

B. Product Data: Submit window manufacturer current product literature, including installation instruction.

C. Samples: Provide finish samples for all products.

D. Quality Assurance Submittals

(Specifier Note: DELETE Design Data, Test Reports submittal requirements when propriety specification is used and can be held. MAINTAIN Design Data, Test Reports submittal requirement when other products may be submitted as substitution.)

1. Design Data, Test Reports: Provide manufacturer test reports indicating product compliance with indicated requirements.
 2. Manufacturer Instructions: Provide manufacturer's written installation instructions.
- E. Closeout Submittals
1. Refer to Section [01 78 00 Closeout Submittals] [Insert section number and title].

1.5 QUALITY ASSURANCE

- A. Qualifications
- B. Certifications
1. WDMA Hallmark certification label indicating windows meet the design requirements.
- C. Mock-ups
1. Window mock-up shall incorporate surrounding construction, including wall assembly fasteners, flashing, and other related accessories installed in accordance with window manufacturer's approved installation methods.
 - a. Mock-up size: [Insert size] [As indicated on drawings.]
 - b. Mock-up may [not] remain as part of the work.
- D. Pre-installation Meeting
1. Refer to Section [01 31 19 Project Meetings] [Insert section number and title].

1.6 DELIVERY, STORAGE AND HANDLING

- A. Refer to Section [01 60 00 Product Requirements] [Insert section number and title].
- B. Deliver windows materials and components in manufacturer's original, unopened, undamaged containers with identification labels intact.
- C. Store windows as recommended by manufacturer.

1.7 WARRANTY

- A. Refer to Section [01 78 36 Warranties] [Insert section number and title].

(Specifier Note: DELETE warranty information not specific to project.)

- B. Manufacturer standard warranty indicating that the window unit will be free from material and workmanship defects from the date of substantial completion for the time periods indicated below:

- 1. Window Unit: 20 years
- 2. Clad Finish: 10 years against peeling, checking, cracking caulk or color change

(Specifier Note: SELECT warranty associated with the glazing types specified. Specialty glazing includes patterned and textured glass. Insulated glass that incorporates a specialty glass may be eligible for an extended warranty, but requires input from the manufacturer. Contact a JELD-WEN representative to discuss design options and their effect on the warranty.)

- 3. Glazing:
 - a. Insulated Glass: 20 years against seal breakage
 - b. Specialty Glazing: 5 years against delamination

PART 2 - PRODUCTS

(Specifier Note: Product Information is proprietary to JELD-WEN. If additional products are required for competitive procurement, contact JELD-WEN for assistance in listing competitive products that may be available.)

2.1 MANUFACTURER

- A. JELD-WEN Windows and Doors; 3250 Lakeport Blvd. P.O. Box 1329; Klamath Falls, OR 97601-0268, USA; Phone 541.885.7412, fax 541.884.3331; Toll free 800.535.3936; website www.jeld-wen.com
- B. Basis of Design: Windows are based on JELD-WEN® Premium Metal-Clad Wood Sitrine EX Windows.

2.2 MATERIALS

(Specifier Note: AuraLast® is a proprietary trademark preservative wood treatment by JELD-WEN and is distinguished from traditional envelope preservation methods due to the vacuum/pressure infused treatment through to the cellular level ensuring a minimum penetration of 92%.)

- A. Exterior Wood: Western Pine, preservative treated with AuraLast® in accordance with WDMA I.S.4.
- B. Interior Wood: Western Pine

2.3 MANUFACTURED UNITS

- A. Frame

1. Select kiln-dried pine AuraLast® treated wood
2. Cladding: 0.050 inch (1.27 mm) extruded aluminum
3. Jamb Width: 4 -9/16 inch (116mm)

B. Sash

1. Select kiln-dried pine AuraLast® treated wood
2. Cladding: 0.050 inch (1.27 mm) extruded aluminum

(Specifier Note: DELETE Sash Thickness when only radius and geometric window units are specified.)

3. Sash Thickness: 1-7/16 inch (36.5mm)

C. Exterior Trim

1. Nailing Fin and Drip Cap: Integral extruded aluminum on all four sides of frame.

(Specifier Note: SELECT casing options when construction conditions or aesthetics require inclusion. Utilize the following trims for indicated applications - Brickmould in conjunction with masonry veneers, Flat Casing for narrow, Adams Casing for wider aesthetic conditions. DELETE trim options if not project specific.)

2. Factory Applied Casing Options: [Extruded Aluminum Brickmould] [Adams Casing]
3. Casing Options: [3-1/2 inch (88.5mm) Flat Casing]

(Specifier Note: DELETE Frame and Mull Expanders when not required for window layout.)

4. Frame Expanders: [1-7/8 inch (48mm)] [3-1/4 inch (83mm)]
5. Mull Expander: [2-1/8 inch (54mm)]

(Specifier Note: DELETE Mull Cap when window layout does not require units to be joined (mulled) together at the factory.)

6. Mull Cap: [standard: 5/16 inch (8mm) wide] [options: [1-3/32 inch (28mm)] [2 inch (51mm)] [4 inch (102mm)] wide]

(Specifier Note: DELETE In-Sash Interior Radius Trim Options when in-sash radius window are not specified.)

D. In-Sash Interior Radius Trim Options

1. Material: [Pine] [Oak]
2. Pattern: [As selected by architect]
3. Casing: [As selected by architect]

(Specifier Note: DELETE Extension Jamb's for window styles not project specific.)

E. Factory Applied Extension Jamb's: Provide on all four sides of frame interior.

1. [Awning Windows] [Casement Windows] [Radius and Geometric Windows]: from 3-3/16 inch up to 12 inches
2. [Double-Hung Windows] [Horizontal Sliding Windows]: from 4-9/16 inch up to 12 inches

F. Weatherstripping

(Specifier Note: DELETE Weatherstripping for window styles not project specific.)

1. [Awning Windows] [Casement Windows] [Radius and Geometric Windows]: Flexible hinged leaf applied to top of sash and thermoplastic rubber bulb at full perimeter of frame.
2. Double-Hung: Dual bulb at head and sill, thermoplastic rubber bulb at check rail, rigid vinyl water stops at sill.
 - a. Jamb Liner Color: [standard: Ivory] [option: White]
3. Horizontal Sliding: Thermoplastic rubber bulb at checkrail and side rails, polyurethane hinged leaf at side jamb and sill track, rigid vinyl water stops at sill.

G. Hardware

(Specifier Note: DELETE hardware for window styles not project specific.)

(Specifier Note: In applications where both operable and non-operable awning or casement windows are desired, to maintain the aesthetic profile specify "stationary" awning or casement units in Part 3 Schedule Article.)

1. Awning Windows

- a. Hinges: Sliding steel reinforced nylon shoe in stainless steel track.
- b. Operator: Roto type, with single pull scissor arm and hardened steel worm gears.
- c. Handle Profile: [standard: Folding Handle] [T-Handle] [Round Knob]
- e-d. Finish: [Chestnut Bronze] [Desert Sand] [White]

Formatted: Bullets and Numbering

2. Casement Windows

- a. Hinges: Concealed
- b. Operator: Single arm roto type
- c. Handle Profile: [standard: Folding Handle] [options: T-Handle] [Round Knob]
- e-d. Finish: [Chestnut Bronze] [Desert Sand] [White]

Formatted: Bullets and Numbering

3. Double-Hung Windows

- a. Balance: Dual block and tackle

- b. Lock: Recessed Cam Action
- c. [Options: Plain rail
- d. Finish: [Chestnut Bronze] [Desert Sand] [White]

4. Horizontal Sliding Windows

- a. Sliding System: High-raised polyvinyl chloride sill track and compressible resilient polyfoam backed head track
- b. Sash Pull: Recessed
- c. Sash Lock: Recessed Cam Action
- d. Finish: [Chestnut Bronze] [Desert Sand] [White]

H. Glazing

(Specifier Note: Various types of glass are available. The most common types have been included here. Contact a JELD-WEN representative when other options are required. DELETE glass not project specific.)

(Specifier Note: Reflective glare from glazing has been found to affect the beach nesting of turtles in coastal environments. Some governing authorities require the use of turtle glass which uses tinted glass to achieve an industry-approved, inside-to-outside visible light transmittance value of 45% or less (visible spectrum = 400 to 700 nanometers). Verify the requirements for turtle glass with local authorities in coastal environments.)

- 1. Strength: [standard: Annealed] [option: Tempered]
- 2. Insulated Glass (standard):
 - a. Two panes of glass utilizing a continuous roll formed stainless steel spacer and dual seal sealant.
 - b. Overall Nominal Thickness: 3/4 inch (19mm)
 - c. Type: [standard: Type 1- Clear] [options: [Type 2 – Tinted [Bronze] [Gray] [Green]] [Specialty Glass – Obscure]]

(Specifier Note: Low E is standard on all window units but may be deleted at the design professional's option. DELETE Coatings if not desired.)

- d. Coatings: Low E on surface 2

(Specifier Note: Argon option is only available with Low E coating and cannot be used with capillary tubes.)

(Specifier Note: Installations at elevations above 4,000 feet Mean Sea Level require glazing known as High Altitude glazing with capillary tubes to equalize environmental stress.)

- e. Air Space: [Air] [Argon] [Air with capillary tubes]

OR

- 3. Monolithic Glass (option):

- a. Overall Nominal Thickness: [1/8 inch (3mm)] [(Specifier Note: for tempered glass) 3/16 inch (7mm)]
- b. Type: [standard: Type 1- Clear] [options: [Type 2 – Tinted [Bronze] [Gray] [Green]] [Specialty Glass – Obscure]]

2.4 WINDOW ACCESSORIES

(Specifier Note: DELETE accessories for window styles not project specific.)

(Specifier Note: SELECT exterior insect screens or combination storm/screens for double-hung and horizontal sliding windows. SELECT interior insect screens for awning and casement windows.)

A. Exterior Insect Screen

- 1. Material: Charcoal fiberglass screen cloth (18 by16 mesh) set in painted roll formed aluminum frame.
 - a. Frame Color: Match exterior cladding

OR

B. Combination Storm/Screen

- 1. Material: Extruded aluminum with twin storm panels and charcoal fiberglass screen cloth (18 by16 mesh) set in painted extruded aluminum frame.
 - a. Frame Color: Match exterior cladding

AND/OR

C. Interior Insect Screen

- 1. Material: [standard: Charcoal fiberglass] [option: Aluminum] screen cloth (18 by 16 mesh) set in painted roll formed aluminum frame.
 - a. Finish: [Chestnut Bronze] [Desert Sand] [White]

D. Grilles

(Specifier Note: Grilles are not available for textured glass. SELECT grilles, profiles, and width based on the desired aesthetic appearance of the window.)

1. Simulated Divided Lites (SDL)

a. Exterior Muntins

- 1) Material: Extruded aluminum permanently applied to exterior of insulating glass unit.
- 2) Pattern: As selected by Architect
- 3) Width: [7/8 inch (22mm)] [1-1/8 inch (28.5mm)] [1-3/8 inch (34.9mm)] [2-5/16 inch (59mm)] (for simulated double-hung checkrail)
- 4) Finish: Match exterior cladding

(Specifier Note: Internal shadow bar will give the appearance of a true divided lite and is standard on all SDL units. Internal shadow bar may be deleted at the design professional's option. DELETE Internal Shadow Bar if not project specific.)

- b. Internal Shadow Bar: [standard: Light Bronze] [option: Silver]
- c. Interior Muntins
 - 1) Material: Clear pine permanently bonded to interior of insulating glass unit.
 - 2) Width: Match exterior muntin

(Specifier Note: Specify KD Grilles for Radius and Geometric window units only.)

- 2. Full Surround [KD] Wood Grilles
 - a. Material: Unfinished clear pine
 - b. Profile: Modified OGEE
 - c. Pattern: As selected by Architect
 - d. Size: 7/8 inch (22mm)
- 3. Grilles Between the Glass (GBG)
 - a. Material: Made of roll formed aluminum suspended within the air cavity.

(Specifier Note: SELECT profile based on desired aesthetics. Utilize flat for a narrow aesthetic and a contour profile for a wider aesthetic.)

- b. Profile: [Flat] [Contour]
- c. Pattern: As selected by Architect
- d. Width:
 - 1) *(Specifier Note: for flat profile)* [5/8 inch (22mm)]
 - 2) *(Specifier Note: for contour profile)* [23/32 inch (18.25mm)] [1 inch (25.4mm)]
- e. Finish: [Brilliant White] [Chestnut Brown] [Desert Sand] [French Vanilla] [Hartford Green] [Mesa Red]

OR

2.5 CONSTRUCTION ACCESSORIES

(Specifier Note: Construction Accessories compatible with windows and required installation may be specified in this section or in related sections. COORDINATE with related sections to not duplicate information.)

A. Flashing

- 1. Refer to Section [04 20 00 Unit Masonry] [07 60 00 Flashing and Sheet Metal] [Insert section number and title].

B. Sealants

1. Refer to Section [07 92 00 Joint Sealants] [Insert section number and title].

OR

(Specifier Note: For sealants specified within this section list recommended products.)

2. Provide manufacturer recommended sealants maintain watertight conditions.
3. Products:
 - a. [Insert products and manufacturer]

2.6 FABRICATION

- A. General: Aluminum cladding corners are cope jointed.

(Specifier Note: DELETE Fabrication for window styles not project specific.)

- B. [Awning Windows] [Casement Windows] [Double-Hung Windows] [Horizontal Sliding Windows]

1. Frame: Head corner joints mechanically fastened over silicone injected nylon corner key. Sill corner joints sealed with foam gasket and screw boss construction.
2. Sash: Corner joints slot-and-tenoned, and mechanically fastened.
3. Glass: Mounted using silicone glazing compound and secured with interior applied profiled wood stops.

- C. Radius and Geometric Windows

1. Frame: Head corner joints mechanically fastened over silicone sealed and mechanically fastened. Curved members are soft wood veneers laminated and bonded together. Rabbeted construction, butyl sealant and mechanical fasteners secure members together.
2. Glass: Direct glazed with butyl glazing tape and cap bead with silicone on exterior and secured with adhesive butyl applied removable wood interior stops.

2.7 FINISH

(Specifier Note: Window interior wood is left unfinished for field finishing unless indicated otherwise. DELETE options not project specific.)

- A. Interior:

1. [standard: Unfinished] [option: Primed]
2. Pre-finished Options:

OR

- OR*
 - a. Paint: [Extra White] [Moderate White] [Natural Choice] [Pure White]
 - b. Stain: [Cherry] [Cordovan] [Fruitwood] [Wheat]
- OR*
 - c. Clear Laquer
- B. Exterior: 0.050 thick extruded aluminum cladding with thermo set polyester finish in accordance with AAMA #2603.
 - 1. Color: [Brilliant White] [Chestnut Bronze] [Desert Sand] [French Vanilla] [Hartford Green] [Mesa Red]

PART 3 - EXECUTION

3.1 GENERAL

- A. Install windows in accordance with manufacturer's installation guidelines and recommendations.

3.2 EXAMINATION

- A. Inspect window prior to installation.
- B. Inspect rough opening for compliance with window manufacturer recommendations. Verify rough opening conditions are within recommended tolerances.

3.3 PREPARATION

- A. Form sheet metal sill pan in accordance with manufacturer's recommendations.
- B. Prepare windows for installation in accordance with manufacturer's recommendations.

3.4 INSTALLATION

(Specifier Note: DELETE installation paragraphs not project specific.)

- A. Insert window into rough opening *(for use on window units with nailing fins)*:
 - 1. Shim side jambs straight.
 - 2. Inspect window for square, level and plumb.
 - 3. Fasten window through nailing fin holes around entire window.
 - 4. Test and adjust for smooth operation of window.
- B. Insert window into rough opening *(for use on window units without nailing fins)*:
 - 1. Shim side jambs straight.
 - 2. Inspect window for square, level and plumb.

3. Fasten window through jamb, shim and into rough opening jamb.
4. Test and adjust for smooth operation of window.
5. Ensure seal between sill pan and inside face of windowsill.
6. Install backer rod and sealant at exterior jambs and head.
7. Apply backer rod and sealant on exterior below sill. Leave gaps for drainage.
8. Seal interior joints between rough opening and jambs with backer rod and sealant.

3.5 FIELD QUALITY CONTROL

- A. Manufacturers' Field Services: Field inspections.

3.6 CLEANING

- A. Remove Preserve® film from glass.
- B. Clean the exterior surface and glass with mild soap and water.

3.7 PROTECTION

- A. Protect installed windows from damage.

3.8 SCHEDULES

(Specifier Note: Below are sample schedules that require editing for specific project. When a single type of window is utilized on a project, Specifier may elect to delete the schedule in its entirety. When Schedules are included on the drawings, schedule should be deleted from the specification.)

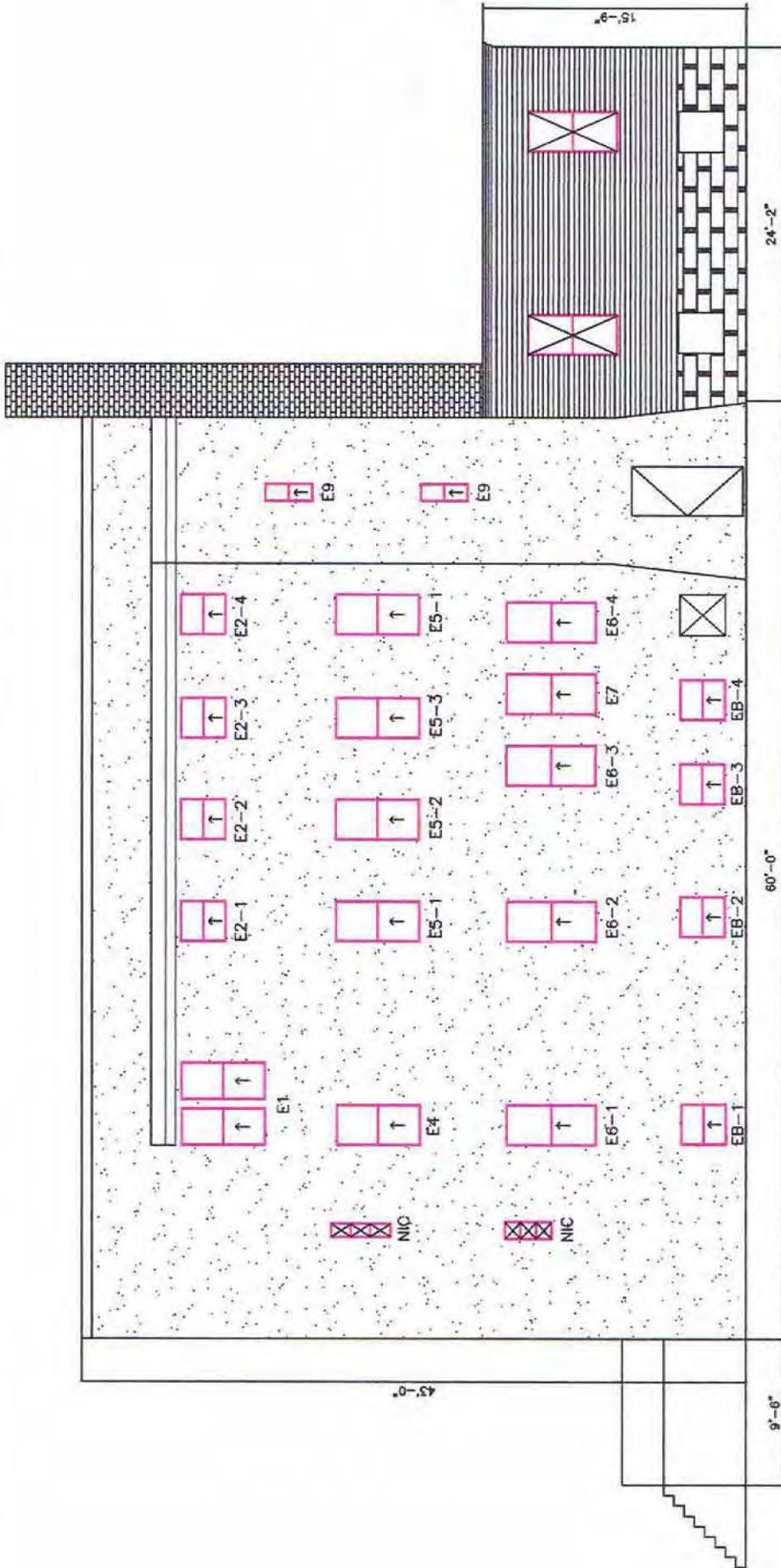
A. Window Type A

- | | |
|--------------------------|---|
| 1. Style: | <i>Awning</i> |
| 2. Operation: | <i>Operable</i> |
| 3. Size: | <i>36 x 24</i> |
| 4. Exterior Finish: | <i>Mesa Red</i> |
| 5. Interior Finish: | <i>Pre-finished, Cherry Stain</i> |
| 6. Exterior Trim: | <i>Adams Casing</i> |
| 7. Mull Cap: | <i>2 inch</i> |
| 8. Hardware: | <i>Round Knob</i> |
| 9. Hardware Finish: | <i>Chestnut Bronze</i> |
| 10. Glazing: | <i>Tempered, Type 1, Low-E with Argon</i> |
| 11. Grilles: | <i>1 inch Contour GBG, Mesa Red</i> |
| 12. Insect Screen: | <i>Aluminum</i> |
| 13. Screen Frame Finish: | <i>Chestnut Bronze</i> |

END OF SECTION



East Elevation



East Elev (Andersen replacement)

Student Cooperative Housing
1721 University Ave SE

East Elevation



E1

Student Cooperative Housing
1721 University Ave SE

East Elevation



E2-1

Student Cooperative Housing
1721 University Ave SE

East Elevation



E2-2

Student Cooperative Housing
1721 University Ave SE

East Elevation



E2-3

Student Cooperative Housing
1721 University Ave SE

East Elevation

E2-4



Student Cooperative Housing
1721 University Ave SE

East Elevation

E3-1



Student Cooperative Housing
1721 University Ave SE

East Elevation

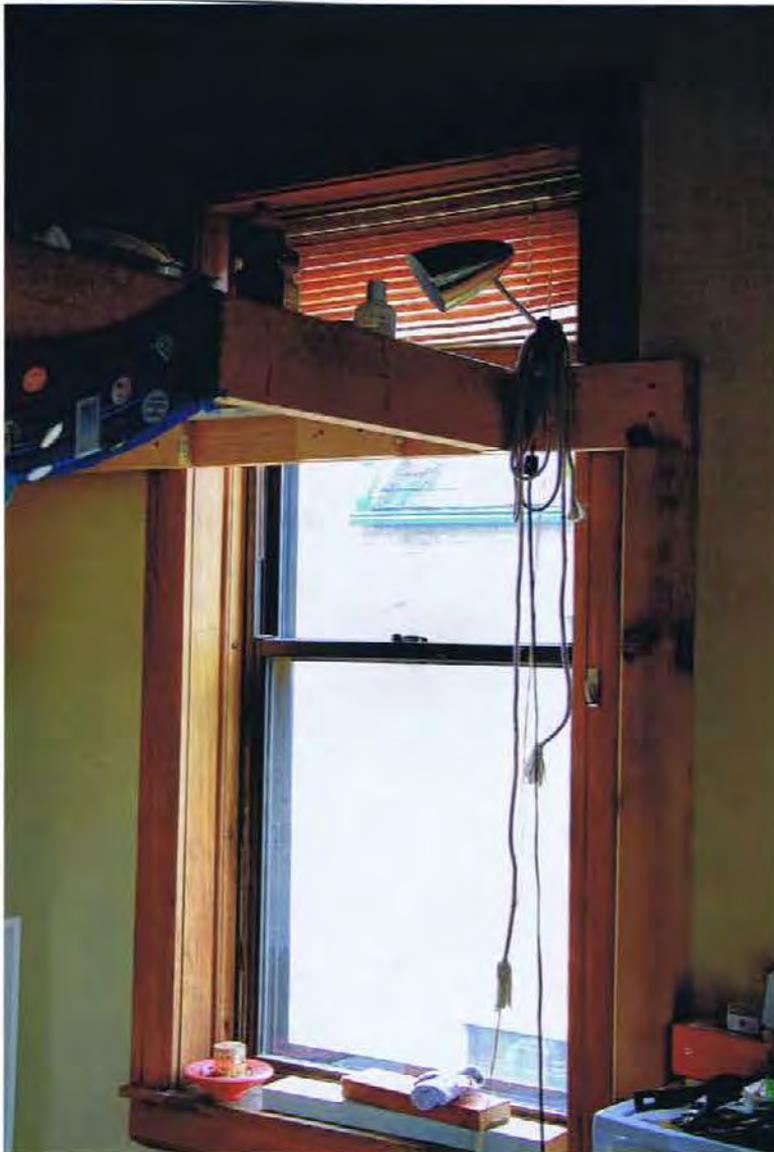
E3-2



Student Cooperative Housing
1721 University Ave SE

East Elevation

E4



Student Cooperative Housing
1721 University Ave SE

East Elevation

E5-1



Student Cooperative Housing
1721 University Ave SE

East Elevation

E5-2



Student Cooperative Housing
1721 University Ave SE

East Elevation

E5-3



Student Cooperative Housing
1721 University Ave SE

East Elevation

E5-4



Student Cooperative Housing
1721 University Ave SE

East Elevation

E6-1



Student Cooperative Housing
1721 University Ave SE

East Elevation

E6-2



Student Cooperative Housing
1721 University Ave SE

East Elevation

E6-3



Student Cooperative Housing
1721 University Ave SE

East Elevation

E6-4



Student Cooperative Housing
1721 University Ave SE

East Elevation

E7



**Student Cooperative Housing
1721 University Ave SE**

**East Elevation
Typical Interior**

EB-1

EB-2

EB-3



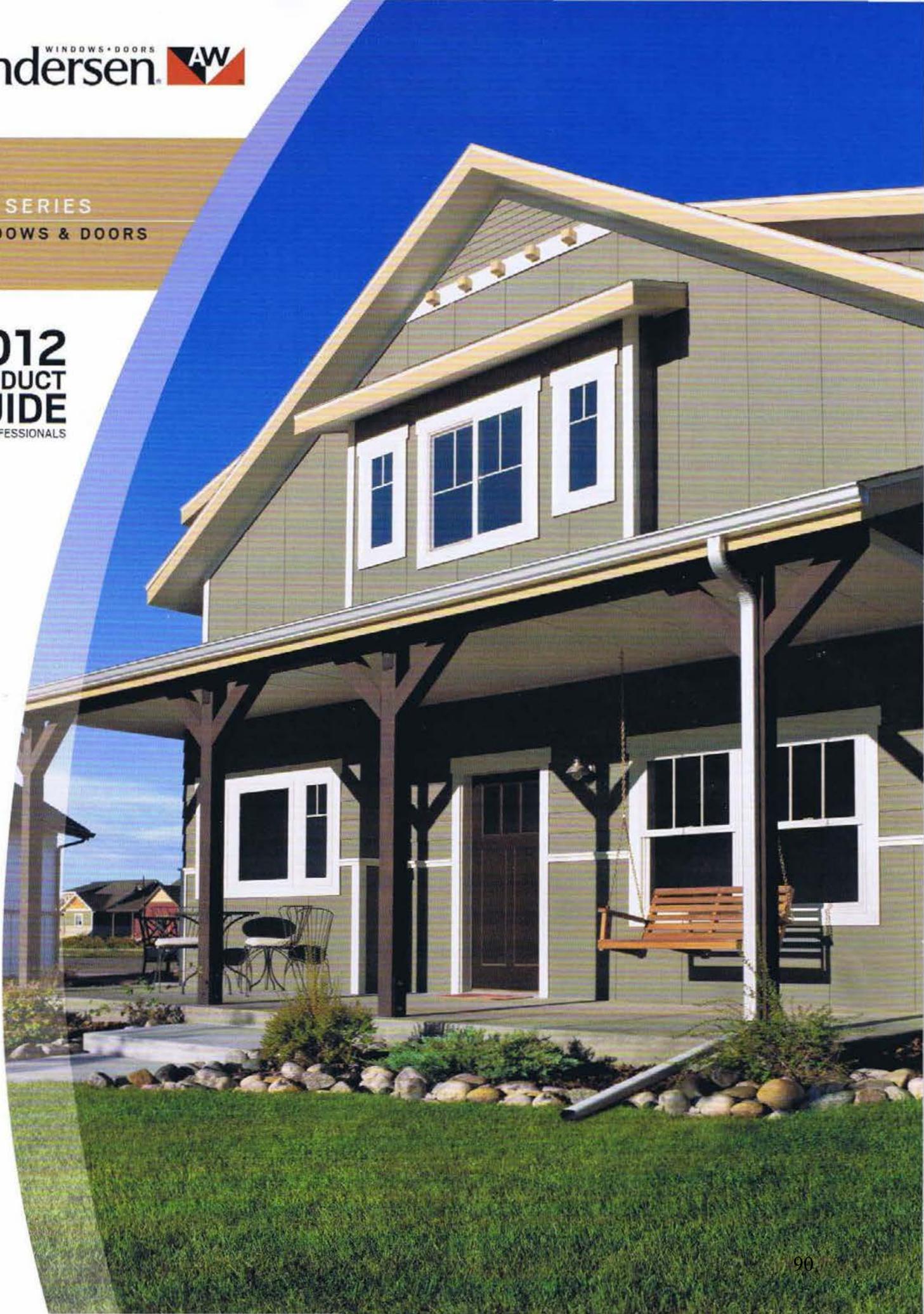
**Student Cooperative Housing
1721 University Ave SE**

**East Elevation
Aluminum Panel w/Vent
EB-4**



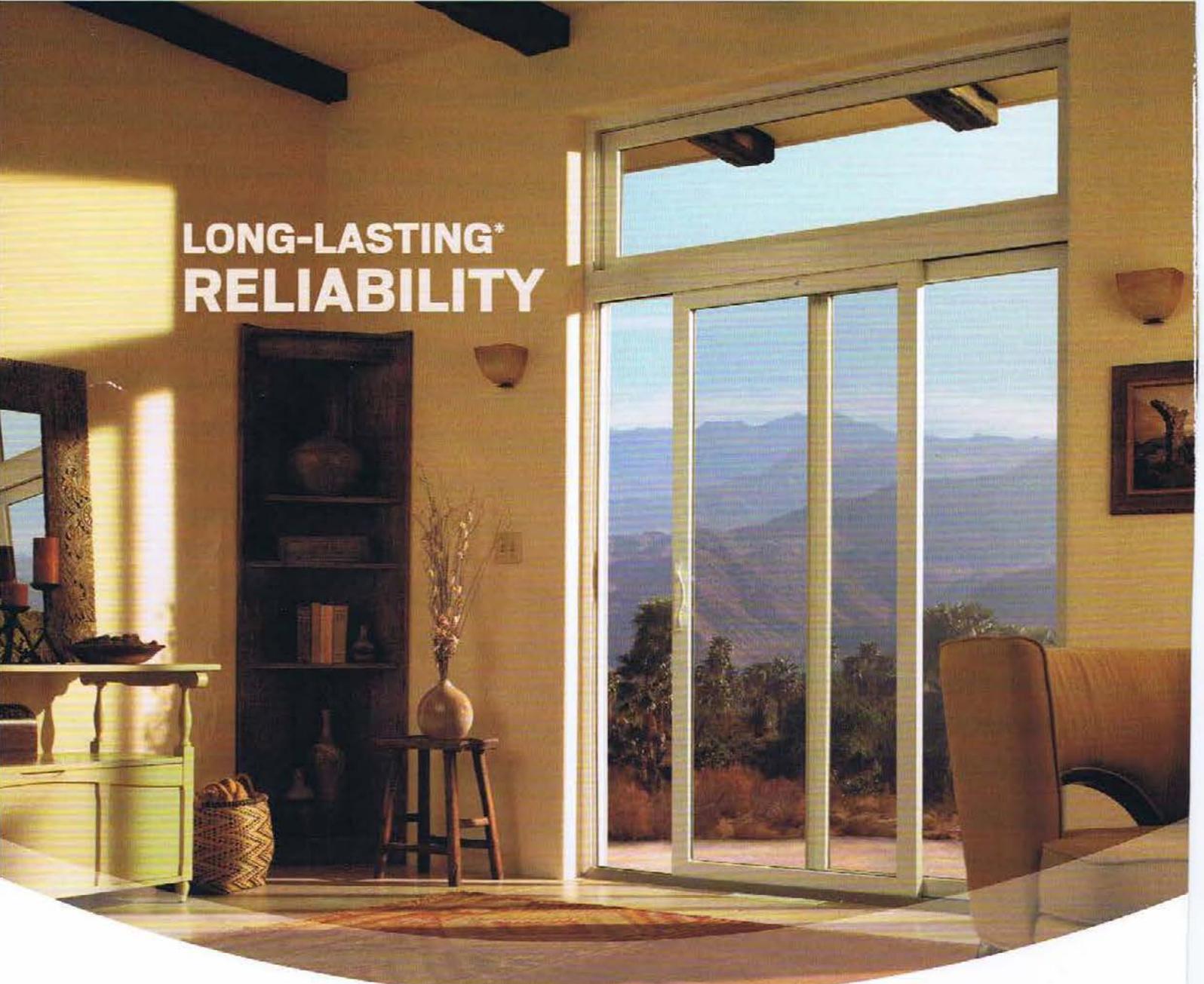
100 SERIES
WINDOWS & DOORS

**2012
PRODUCT
GUIDE**
FOR PROFESSIONALS



ALL THE **FEATURES YOU WANT.** INCLUDING THE PRICE.

Whether you're replacing, remodeling or building, now you can bring Andersen beauty, craftsmanship and time-tested performance into a home for less than you may expect. Andersen® 100 Series windows and patio doors are made with our patented, revolutionary Fibrex® composite material, which allows us to offer an uncommon value others can't. It's environmentally responsible and energy efficient, and it comes in durable, deep, rich colors you can't get with vinyl.



**LONG-LASTING*
RELIABILITY**

Durable Andersen® 100 Series products come with factory-finished interiors and exteriors that never need painting and won't fade, flake, blister, chalk or peel.*

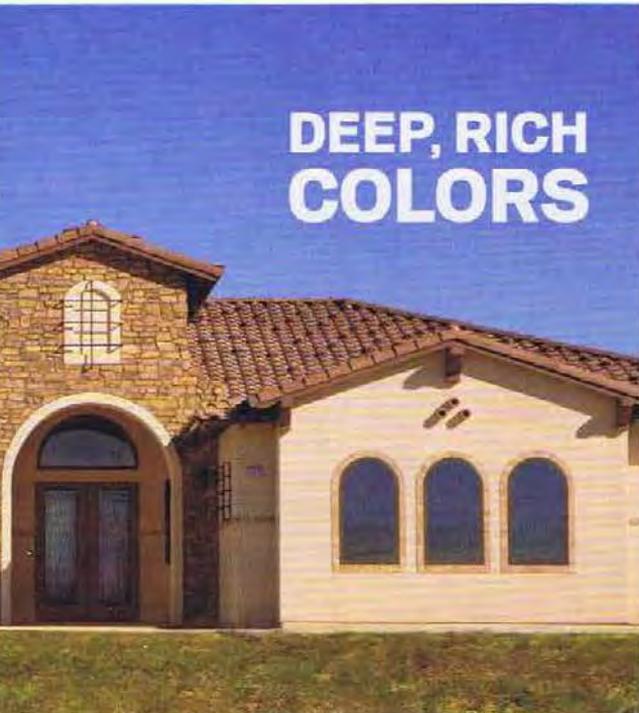
*See the limited warranty for details.

100 SERIES
WINDOWS & DOORS

**2012
PRODUCT
GUIDE**
FOR PROFESSIONALS



DEEP, RICH COLORS



Deep, rich colors, including Dark Bronze, complement virtually any architectural style.

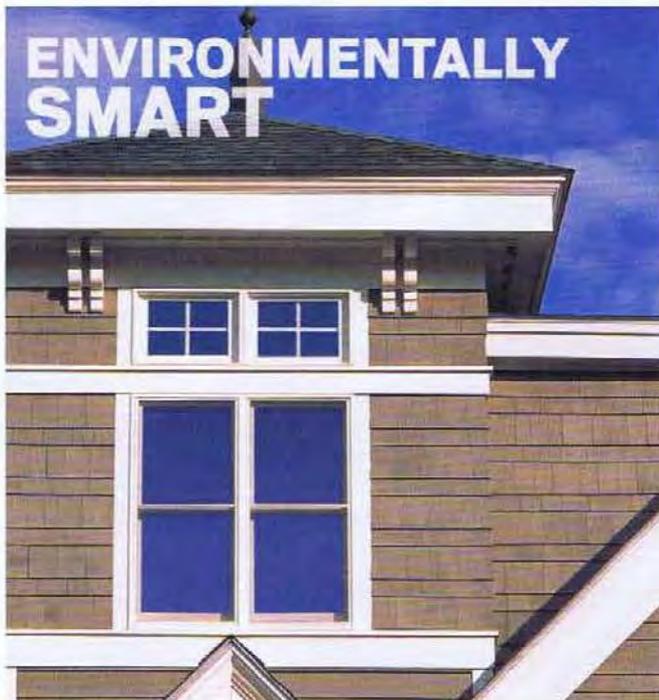
MADE POSSIBLE BY OUR EXCLUSIVE FIBREX® MATERIAL

FibreX® material is more than just environmentally responsible. It's also durable and beautiful. Here's what helps make FibreX® material so revolutionary:

- FibreX® material is **twice as strong as vinyl**, so weathertight seals stay weathertight.
- Our unique fabrication process **blends the color with the FibreX® material** for long-lasting* beauty.
- It blocks thermal transfer nearly 700 times better than aluminum to help **reduce heating and cooling bills**.
- For **exceptional durability**, FibreX® material retains its stability and rigidity in all climates.

Andersen® 100 Series windows come in beautiful, dark colors that can set a home apart.

ENVIRONMENTALLY SMART



Andersen® 100 Series products are made with our FibreX® composite material. It's composed of 40% reclaimed wood fiber by weight, most of which is created during the manufacture of Andersen® wood windows.



40%
reclaimed wood fiber
by weight.

WHY ANDERSEN® 100 SERIES WINDOWS & DOORS ARE AN EASY CHOICE.



All Andersen® 100 Series windows and patio doors feature the performance, durability and ease of use you've come to expect from Andersen. They not only provide energy efficiency, beauty and reliability today, but they'll also continue to add value to a home tomorrow and for years* to come.

*See the limited warranty for details.

ENERGY EFFICIENCY

It pays to understand performance.

Look for the National Fenestration Rating Council® (NFRC) performance information. It's your assurance you're getting accurate energy performance ratings from a nonpartisan, nonprofit organization. Here's what the numbers mean:

U-Factor measures the window's insulating capability. The lower the value, the less heat is lost through the entire product.

Visible Transmittance refers to how much visible light comes through a product. The higher the number, the better.

Solar Heat Gain Coefficient (SHGC) measures how well a product blocks heat from the sun. The lower the number, the more it helps reduce air conditioning bills.

Visit andersenwindows.com/100series for details. Click on "Windows" or "Doors" underneath the Andersen logo, then click on the NFRC link on the right-hand side.



Custom sizes for a weathertight fit.

Andersen® 100-Series windows and patio doors are available in custom sizes, which helps provide a more weathertight fit for any replacement project.



Save money by saving energy.

Energy-efficient Andersen® 100 Series products with optional SmartSun™ glass* meet ENERGY STAR® qualifications throughout the United States to help **lower heating and cooling bills**. What's more, the Fibrex® material used for Andersen® 100 Series frames and sash blocks thermal transfer nearly 700 times better than aluminum.

RELIABILITY

Easy operation for years* to come.

All Andersen® 100 Series products are **tested to the extreme** to deliver years* of smooth, reliable operation.

Take comfort in superior weather resistance.

Our weather-resistant construction **seals out drafts, wind and water** so well, you can relax in comfort whatever the weather. We carefully select weatherstripping to match each style of window and door to make sure you enjoy superior comfort and reliability.

BEAUTY

Virtually seamless corners.

To give your windows, patio doors and your home a beautiful, clean look, Andersen® 100 Series products feature virtually seamless corners.



100 Series corner seam



Vinyl corner seam



Quality so solid, the warranty is transferable.*

Most other window and door warranties end when a home is sold, but Andersen® 100 Series products' 10-year coverage transfers from each homeowner to the next. And, because it's not prorated, the coverage offers **full benefits, year after year, owner after owner**.

Never needs painting.

Andersen® 100 Series windows and doors **won't fade, flake, blister, chalk or peel,*** no matter what the climate.

Five colors for beautiful curb appeal.

From White and Sandtone to deep, rich Cocoa Bean, Dark Bronze and Terratone® colors, 100 Series windows and doors complement any home.

Improve your view with TruScene® insect screens.

With **over 50% more clarity** than conventional insect screens, optional TruScene® insect screens for windows give you beautifully unobstructed views. They let more sunlight and fresh air into the home while keeping some of the smallest insects out.**

CHOOSE THE WINDOWS, DOORS & OPTIONS THAT ARE RIGHT FOR YOU.

WINDOW & DOOR TYPES

Building an energy-efficient home doesn't mean you have to compromise. Andersen® 100 Series windows and doors come in styles, shapes and even custom sizes to create the look you want.



SINGLE-HUNG WINDOWS

This style features a stationary upper sash that is also available with an arched top.



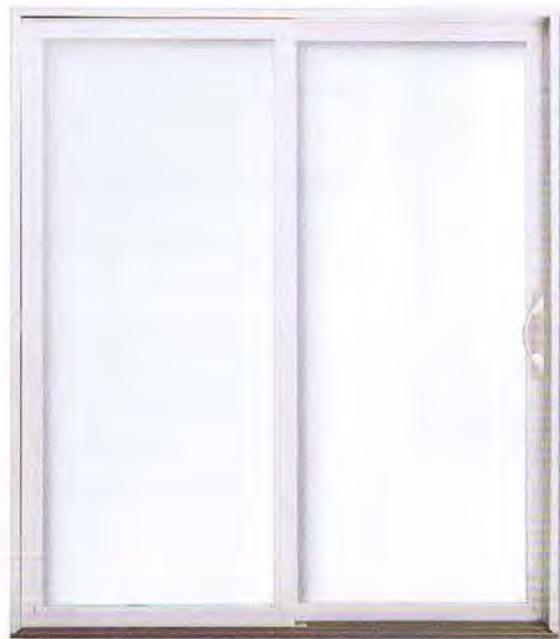
CASEMENT & AWNING WINDOWS

Both styles open with a simple turn of a handle and can also be ordered as stationary windows.



GLIDING WINDOWS

These units have one stationary sash and one that opens. A three-sash configuration, where two sash glide past a fixed center sash, is also available.



GLIDING PATIO DOORS

Patio doors feature one stationary panel and one that glides smoothly on adjustable rollers. They feature a multi-point locking system for enhanced security, and an optional exterior keyed lock for convenience. Sidelight and transom windows are also available.



SPECIALTY WINDOWS

Arch, Springline™, half circle, quarter circle, full circle, rectangle and other geometric shapes are available to complement a home's architecture. Curved specialty windows are not available in custom sizes.



CUSTOM SIZES

Available in custom sizes to fit all projects, including replacement.

GLASS

Choose the right glass to maximize performance.

SMARTSUN™ GLASS

SmartSun™ Low-E glass is the most energy-efficient glass we have ever offered. It rejects unwanted solar heat to help reduce cooling costs and blocks 95% of UV rays that can cause your home furnishings to fade — all while providing a clear view.

LOW-E GLASS

Energy-efficient Low-E glass is available in all Andersen® 100 Series products, and can help reduce energy bills in any climate.

DUAL-PANE GLASS

Dual-pane glass is available for projects where codes allow its use*.

PERFORMANCE COMPARISON OF ANDERSEN® 100 SERIES GLASS OPTIONS**

SEE PAGE 34 FOR MORE DETAILS

	SmartSun™	Low-E	Dual Pane
U-Factor (Lower is better)	0.28	0.29	0.41
Solar Heat Gain Coefficient (Lower is better)	0.19	0.28	0.52
Visible Light Transmittance (Higher is better)	0.43	0.47	0.54
UV Rays Blocked by Glass (Higher is better)	95%	84%	42%

PATTERNED GLASS

Our patterned glass is ideal in bathrooms, entryways, offices and other areas where you want to let light into the home while obscuring the vision of people outside. It delivers all the benefits of Low-E glass and can also be ordered with SmartSun™ Low-E glass.



Obscure



Cascade



Reed



Fern

HARDWARE

You get attractive hardware that performs reliably for years.*

WINDOW HARDWARE

All window hardware is white to match the interior of your windows.



Casement and awning hardware folds down so it doesn't interfere with window treatments.



Single-hung and gliding windows feature hardware that automatically locks when windows are closed. A Window Opening Control Device is available, which limits raising the sash to less than 4" when the window is first opened.



Optional single-hung lift/gliding window handle

PATIO DOOR HARDWARE

Tulsa and Afton hardware options are available. Tulsa hardware exterior handles match the door's exterior color, while interior handles are white to match the interior. Afton hardware has the same finish inside and out, and is available in Bright Brass, Antique Brass, Satin Nickel and Black finishes. Also available, an optional auxiliary foot lock that secures the gliding panel in the track. It provides an extra measure of security when the door is in a locked position.

TULSA HARDWARE



Exterior Handle (Shown in Dark Bronze) Interior Handle

AFTON HARDWARE



Exterior Handle Interior Handle (Shown in Satin Nickel)



Bright Brass Antique Brass Satin Nickel Black

COLOR

Choose the right color to enhance the beauty of your home.



Dark Bronze Cocoa Bean Terratone®



Sandtone White

EXTERIOR COLORS

Andersen® 100 Series products come in five exterior colors, including Dark Bronze and Cocoa Bean — colors that are darker and richer than most vinyl windows.

WHITE INTERIORS

Andersen® 100 Series windows and doors feature an attractive matte white finish inside. This gives you the ability to select the exterior color without compromising options for interior decoration.

Printing limitations prevent exact color duplication. See your Andersen dealer for actual color samples.

GRILLES

Customize the look of your windows and doors with Andersen® grilles.



Andersen® 100 Series products are available with **Finelight™** grilles-between-the-glass that make window and patio door glass easy to clean. They have an elegant, sculpted profile, plus they offer a **two-sided color scheme**, allowing you to have grilles that match not only the white interior but also your exterior color choice.



Colonial



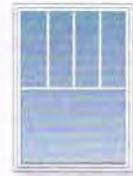
Modified Colonial



Prairie A



Short Fractional



Tall Fractional



Victorian



Renaissance



Sunburst

SPECIFIED EQUAL LIGHT

Any number of same-size rectangles across or down. Some limitations apply.



(2 x 2)



(1 x 3)

INSECT SCREENS

Insect screens for windows and patio doors have a fiberglass screen cloth. Optional **TruScene®** insect screens for windows are made with a micro-fine stainless steel mesh providing **50% more clarity** than our conventional insect screens.

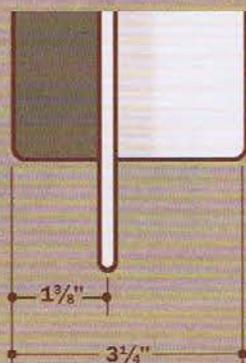
What professionals need.

Wherever you work and whatever style of home you're building or remodeling, you'll find a window or door to match in the Andersen® 100 Series product line. Enjoy easy installation on the jobsite, along with superior product performance and unbeatable service after the job is done. All 100 Series windows feature a 3-1/4" total width, which provides plenty of space for easy drywall returns.

Drawings depict window dimensions.
Patio doors feature a 5-1/8" frame width.

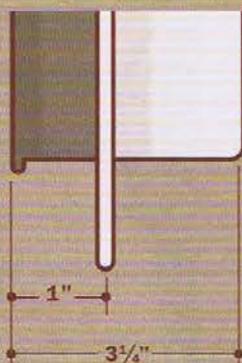
1-3/8" Flange Setback

This popular style offers the greatest flexibility and looks great with any siding or trim.



1" Flange Setback with Stucco Key

Hide normal shrinkage around the frame to easily create a perfect stucco finish.



Replacement Configuration

Order 100 Series products without a nailing flange for replacement projects.



Andersen® 100 Series Windows and Doors

Andersen Windows, Inc.

Ten-Year (10) Limited Warranty

owner2owner
LIMITED WARRANTY

Andersen® 100 Series window and door units are warranted to be free from defects in manufacturing, materials and workmanship for ten (10) years from the date of purchase from the retailer/dealer. The glass is also warranted not to develop, under normal conditions, any material obstruction of vision resulting from manufacturing defects or as a result of premature failure of the glass or organic seal for ten (10) years from the date of purchase from the retailer/dealer.

In the event a component fails as a result of a defect in manufacturing, materials or workmanship within the limited warranty period, Andersen, at its option, will: (1) provide replacement parts to the Andersen retailer/dealer you specify—installation labor is not included; or (2) provide a factory authorized repair to the existing component at no cost to you; or (3) refund the original purchase price or retailer's/dealer's price at the time of the original purchase, whichever is less. Such replacement parts or repairs are warranted for the remainder of the original limited warranty period.

General conditions and exclusions

The limited warranty set forth in this document is the only express warranty (whether written or oral) applicable to Andersen 100 Series windows and doors, and no one is authorized to modify or expand this limited warranty. All warranty claims must be made during the applicable warranty period.

ALL IMPLIED WARRANTIES INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WILL EXPIRE WITH THE TERM OF THE 10 YEAR LIMITED WARRANTY. ANDERSEN EXCLUDES AND WILL NOT PAY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES AND ITS LIABILITY WILL IN ALL INSTANCES BE LIMITED TO REPAIR OR REPLACEMENT OR REFUND OF THE ACTUAL PURCHASE PRICE OF THE DEFECTIVE PRODUCT.

Some states do not allow the exclusion or limitation of incidental or consequential damages or limitation of the duration of an implied warranty, so the above limitations or exclusions may not apply to you.

This limited warranty is only applicable in the U.S.A. (i.e. the fifty states and the District of Columbia). This limited warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

What is not covered by this limited warranty

Product failure or damage due to improper installation or modification including:

- Adjustments or corrections due to improper installation
- Failures due to product modifications or glass shading devices (e.g., glass tinting, security systems, improper painting or staining, insulated coverings, etc.)
- Units improperly assembled or improperly mulled by others
- Failure due to the application of non-Andersen hardware (e.g., locksets, trim sets, hinges, panic hardware, closers, etc.)
- Failure to properly install Andersen hardware

Damage caused by the following:

- Improper maintenance or use, including use of a non-commercial door as a main entrance or exit door for a building other than a single-family residential unit
- Exposure to conditions beyond published performance specifications
- Water infiltration other than as a result of a defect in manufacturing, materials or workmanship
- Condensation
- Using brickwash, razor blades or sealants
- Sanding or improper washing
- Chemicals or airborne pollutants, such as salt or acid rain
- Delivery by others
- Accidents
- Acts of God
- Normal wear and tear

Additional items excluded from this limited warranty:

- Labor to replace sash or door panels, glass or other components
- Labor and other costs related to the removal and disposal of defective product
- Labor and materials to paint or stain any repaired or replaced product, component, trim or other carpentry work that may be required
- Products not manufactured by Andersen
- Slight glass curvature, minor scratches or other imperfections in the glass that do not impair structural integrity or significantly obscure normal vision
- Tarnish or corrosion to hardware finishes
- Service trips to provide instruction on product use
- Applicable taxes and freight
- Removal and re-installation of a previously installed Andersen product into a different structure
- Replacement parts for products outside the applicable warranty period
- Glass that is not factory applied by Andersen
- All other Andersen window and door products, Andersen storm doors and Renewal by Andersen products have their own limited warranties and are not covered by this limited warranty.

For information on warranty coverage for Andersen® products other than 100 Series windows and doors, please refer to the specific limited warranties for those products. They are available from your Andersen dealer or at www.andersenwindows.com/warranty.

How to register your limited warranty

Andersen offers quick, easy warranty registration on our web site. Just go to www.andersenwindows.com/warranty and submit your warranty information online. By registering, you will expedite any warranty service you may have in the future. In addition, you can receive product information updates, safety notices and special offers regarding new products, as well as information regarding enhancements for the windows and doors you've registered.



All warranty information is treated as highly confidential and will never be sold or traded to any person or organization outside of Andersen Corporation and the Andersen Dealer Network.

How to get help

For further information or to make a claim within this limited warranty period, please contact the Andersen retailer/dealer who supplied you with your Andersen® product. If unavailable or unknown to you, you may contact us at:

Andersen Windows, Inc.
Andersen Service Center
100 Fourth Avenue North
Bayport, MN 55003-1096

You may also contact us using the Customer Care section of our website at www.andersenwindows.com or reach us by phone at 1-888-888-7020.

You can help us serve you faster by collecting and including the following important information:

- Description of the product such as the exterior color, unit size or inside visible glass measurements
- Product ID label information
- Description of product concerns
- Documentation of the purchase date, if available
- Your name, address (with zip code) where the product is installed and telephone numbers

If the limited warranty period has expired or for repairs not covered by warranty, many replacement parts are available for purchase. When warranty coverage is unclear, Andersen may charge an inspection fee for any on-site product inspection. If the inspector determines the Andersen® product has a defect covered by this limited warranty, the inspection fee will be waived.

For specific warranty information outside the United States, please contact your local distributor or write to:

Andersen Corporation
International Division
100 Fourth Avenue North
Bayport, MN 55003-1096 USA

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THE ENVIRONMENT HAS A BUSINESS PARTNER.

Respect for the environment is nothing new at Andersen.

For more than a century, it's been part of who we are. Our commitment to recycle and reclaim materials began simply because it was good business. Now it's part of our commitment to sustainability and responsible stewardship of all our resources. Andersen is committed to providing you with long-lasting, energy-efficient windows and doors.



Andersen makes windows and doors that meet **ENERGY STAR**® performance requirements in all 50 states. Andersen Corporation was awarded the U.S. Environmental Protection Agency's ENERGY STAR Sustained Excellence Award in 2012.



Andersen is a charter member of the **U.S. Green Building Council** and a strong supporter of its LEED® (Leadership in Energy and Environmental Design) Green Building Rating System.



Andersen was the first window and door manufacturer with **Green Seal**™ certified products.

owner2owner™ LIMITED WARRANTY

Most window and patio door warranties are prorated and end when a home is sold. Ours keeps its full value for 10 years and transfers from owner to owner, so it can add to the resale value of your home.†



Printed on FSC®-certified paper manufactured with electricity in the form of renewable energy (wind, hydro and biogas). The cover and introductory pages include a minimum of 30% post-consumer recovered fiber, and the Technical Specifications pages include a minimum of 10% post-consumer recovered fiber.

†See the Andersen 100-Series limited warranty for details.

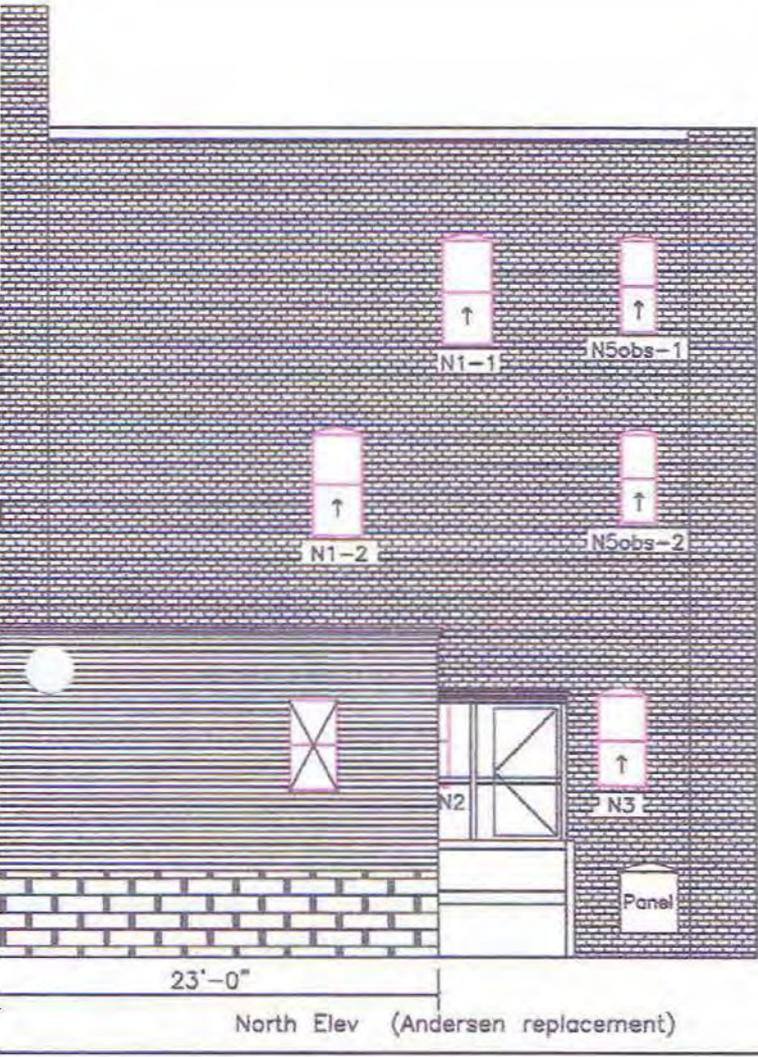
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WINDOWS • DOORS
Andersen

Come home to Andersen.™



North Elevation



North Elev (Andersen replacement)

13325 Commerce Blvd
 Rogers, MN 55374
 P-(612) 749-3433

EMAIL: mwwins@charter.net



Midwest
 Window Systems.LLC

Student Cooperative Housing
1721 University Ave SE

North Elevation

N-1



Student Cooperative Housing
1721 University Ave SE

North Elevation

N1-2



Student Cooperative Housing
1721 University Ave SE

North Elevation

N-2



Student Cooperative Housing
1721 University Ave SE

North Elevation

N3



Student Cooperative Housing
1721 University Ave SE

North Elevation

N5 obs1



Student Cooperative Housing
1721 University Ave SE

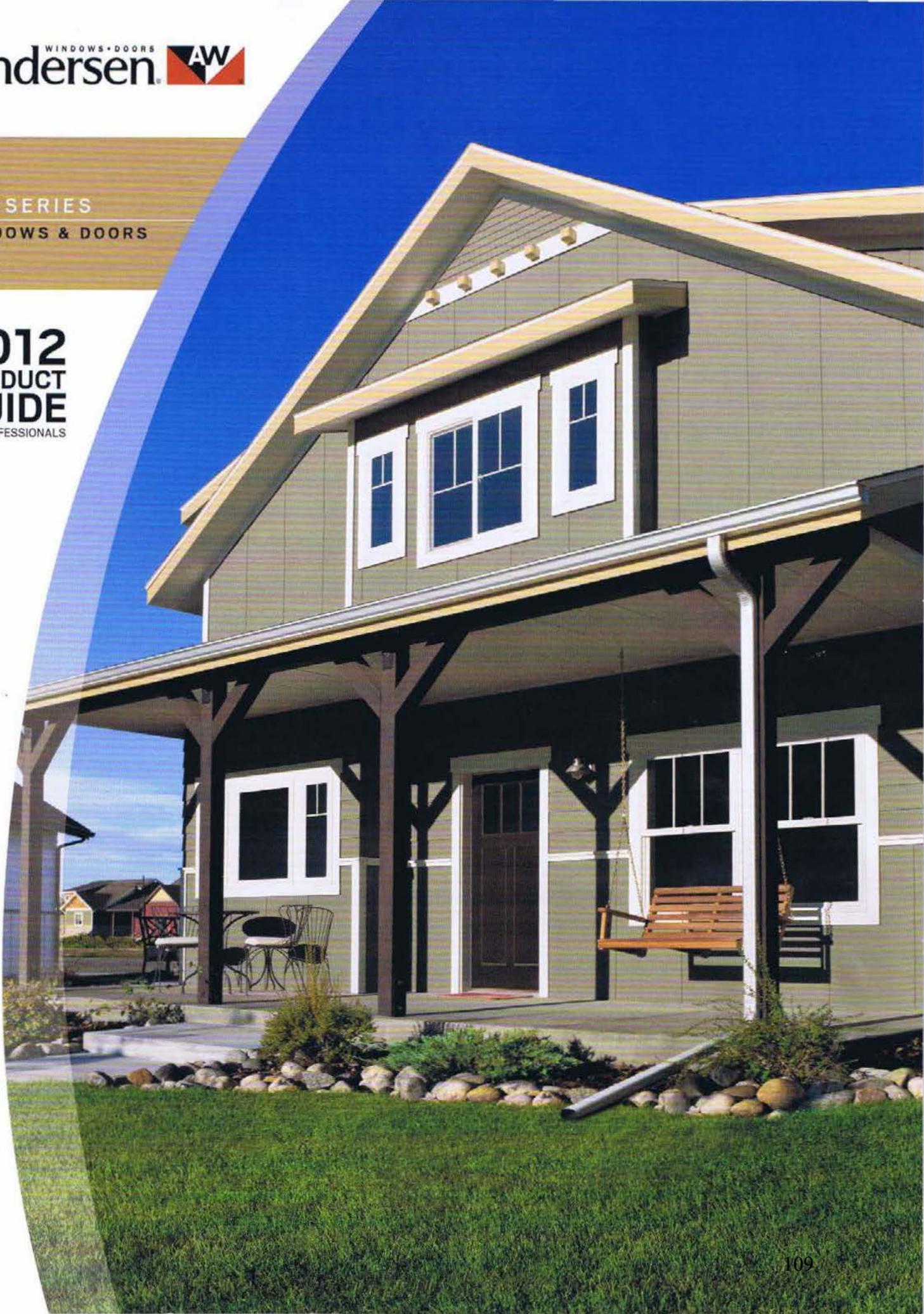
North Elevation

N5 obs2



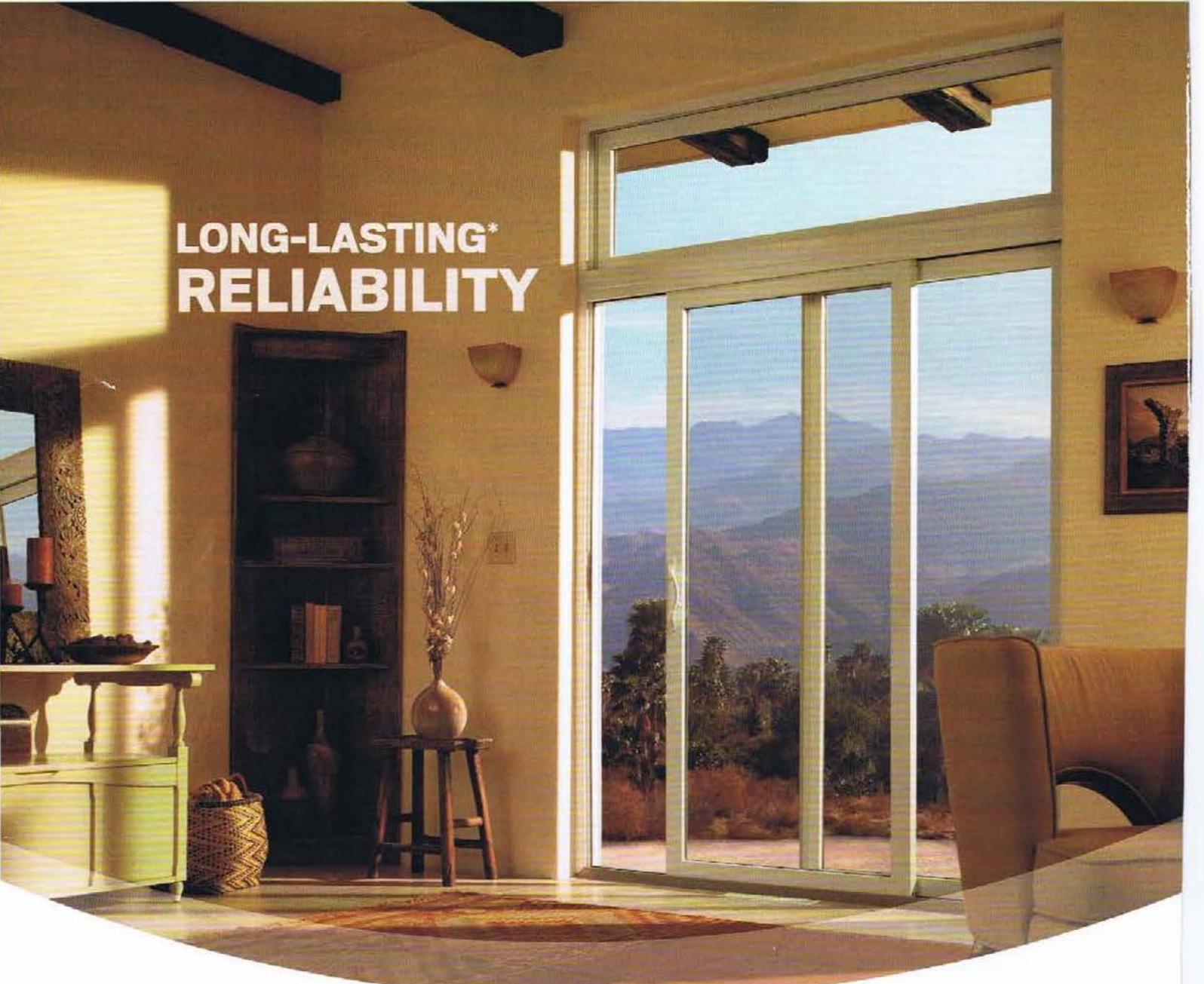
100 SERIES
WINDOWS & DOORS

**2012
PRODUCT
GUIDE**
FOR PROFESSIONALS



ALL THE **FEATURES YOU WANT.** INCLUDING THE PRICE.

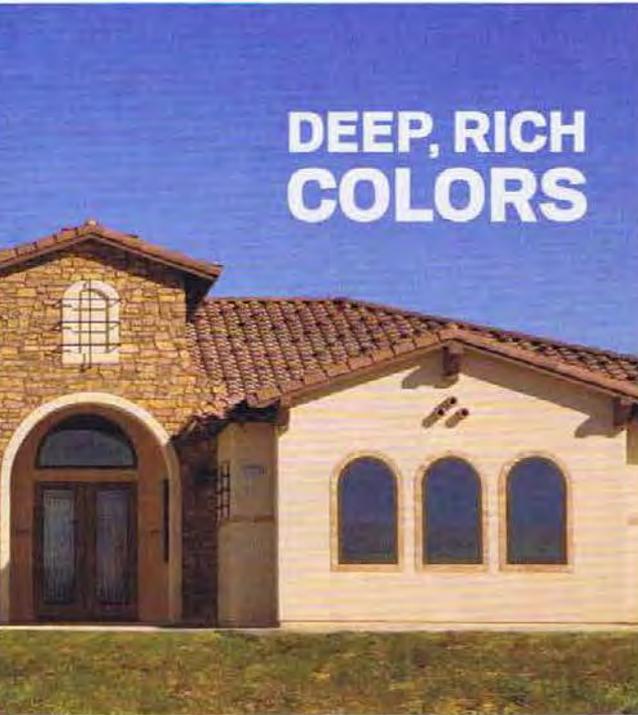
Whether you're replacing, remodeling or building, now you can bring Andersen beauty, craftsmanship and time-tested performance into a home for less than you may expect. Andersen® 100 Series windows and patio doors are made with our patented, revolutionary Fibrex® composite material, which allows us to offer an uncommon value others can't. It's environmentally responsible and energy efficient, and it comes in durable, deep, rich colors you can't get with vinyl.



**LONG-LASTING*
RELIABILITY**

Durable Andersen® 100 Series products come with factory-finished interiors and exteriors that never need painting and won't fade, flake, blister, chalk or peel.*

*See the limited warranty for details.



DEEP, RICH COLORS



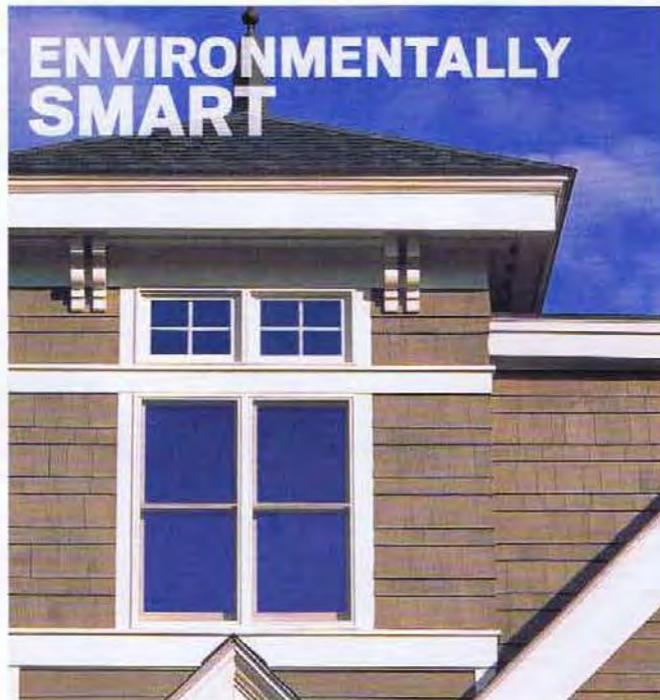
Deep, rich colors, including Dark Bronze, complement virtually any architectural style.

MADE POSSIBLE BY OUR EXCLUSIVE FIBREX® MATERIAL

Fibrex® material is more than just environmentally responsible. It's also durable and beautiful. Here's what helps make Fibrex® material so revolutionary:

- Fibrex® material is **twice as strong as vinyl**, so weathertight seals stay weathertight.
- Our unique fabrication process **blends the color with the Fibrex® material** for long-lasting* beauty.
- It blocks thermal transfer nearly 700 times better than aluminum to help **reduce heating and cooling bills**.
- For **exceptional durability**, Fibrex® material retains its stability and rigidity in all climates.

Andersen® 100 Series windows come in beautiful, dark colors that can set a home apart.



ENVIRONMENTALLY SMART

Andersen® 100 Series products are made with our Fibrex® composite material. It's composed of 40% reclaimed wood fiber by weight, most of which is created during the manufacture of Andersen® wood windows.



40% reclaimed wood fiber by weight.

WHY ANDERSEN® 100 SERIES WINDOWS & DOORS ARE AN EASY CHOICE.



All Andersen® 100 Series windows and patio doors feature the performance, durability and ease of use you've come to expect from Andersen. They not only provide energy efficiency, beauty and reliability today, but they'll also continue to add value to a home tomorrow and for years* to come.

*See the limited warranty for details.

ENERGY EFFICIENCY

It pays to understand performance.

Look for the National Fenestration Rating Council® (NFRC) performance information. It's your assurance you're getting accurate energy performance ratings from a nonpartisan, nonprofit organization. Here's what the numbers mean:

U-Factor measures the window's insulating capability. The lower the value, the less heat is lost through the entire product.

Visible Transmittance refers to how much visible light comes through a product. The higher the number, the better.

Solar Heat Gain Coefficient (SHGC) measures how well a product blocks heat from the sun. The lower the number, the more it helps reduce air conditioning bills.

Visit andersenwindows.com/100series for details. Click on "Windows" or "Doors" underneath the Andersen logo, then click on the NFRC link on the right-hand side.



Custom sizes for a weathertight fit.

Andersen® 100 Series windows and patio doors are available in custom sizes, which helps provide a more weathertight fit for any replacement project.



Save money by saving energy.

Energy-efficient Andersen® 100 Series products with optional SmartSun™ glass* meet ENERGY STAR® qualifications throughout the United States to help **lower heating and cooling bills**. What's more, the Fibrex® material used for Andersen® 100 Series frames and sash blocks thermal transfer nearly 700 times better than aluminum.

RELIABILITY

Easy operation for years* to come.

All Andersen® 100 Series products are **tested to the extreme** to deliver years* of smooth, reliable operation.

Take comfort in superior weather resistance.

Our weather-resistant construction **seals out drafts, wind and water** so well, you can relax in comfort whatever the weather. We carefully select weatherstripping to match each style of window and door to make sure you enjoy superior comfort and reliability.

BEAUTY

Virtually seamless corners.

To give your windows, patio doors and your home a beautiful, clean look, Andersen® 100 Series products feature virtually seamless corners.



100 Series corner seam



Vinyl corner seam



Five colors for beautiful curb appeal.

From White and Sandtone to deep, rich Cocoa Bean, Dark Bronze and Terratone® colors, 100 Series windows and doors complement any home.



Quality so solid, the warranty is transferable.*

Most other window and door warranties end when a home is sold, but Andersen® 100 Series products' 10-year coverage transfers from each homeowner to the next. And, because it's not prorated, the coverage offers **full benefits, year after year, owner after owner**.

Never needs painting.

Andersen® 100 Series windows and doors **won't fade, flake, blister, chalk or peel,*** no matter what the climate.

Improve your view with TruScene® insect screens.

With **over 50% more clarity** than conventional insect screens, optional TruScene® insect screens for windows give you beautifully unobstructed views. They let more sunlight and fresh air into the home while keeping some of the smallest insects out.**

CHOOSE THE WINDOWS, DOORS & OPTIONS THAT ARE RIGHT FOR YOU.

WINDOW & DOOR TYPES

Building an energy-efficient home doesn't mean you have to compromise. Andersen® 100 Series windows and doors come in styles, shapes and even custom sizes to create the look you want.



SINGLE-HUNG WINDOWS

This style features a stationary upper sash that is also available with an arched top.



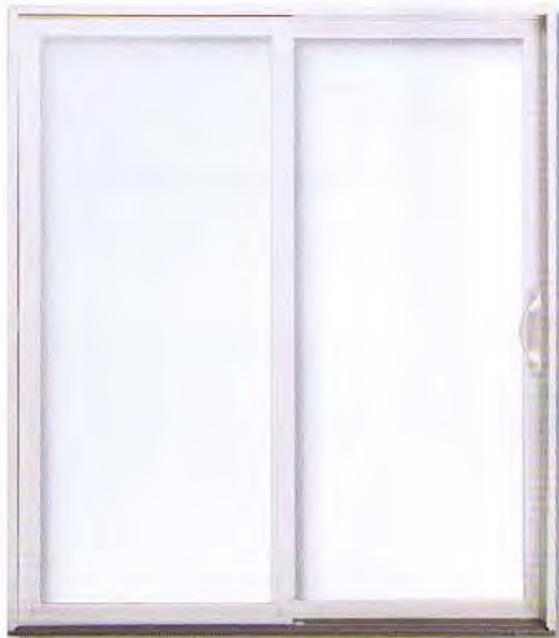
CASEMENT & AWNING WINDOWS

Both styles open with a simple turn of a handle and can also be ordered as stationary windows.



GLIDING WINDOWS

These units have one stationary sash and one that opens. A three-sash configuration, where two sash glide past a fixed center sash, is also available.



GLIDING PATIO DOORS

Patio doors feature one stationary panel and one that glides smoothly on adjustable rollers. They feature a multi-point locking system for enhanced security, and an optional exterior keyed lock for convenience. Sidelight and transom windows are also available.



SPECIALTY WINDOWS

Arch, Springline™ half circle, quarter circle, full circle, rectangle and other geometric shapes are available to complement a home's architecture. Curved specialty windows are not available in custom sizes.



Available in custom sizes to fit all projects, including replacement.

GLASS

Choose the right glass to maximize performance.

SMARTSUN™ GLASS

SmartSun™ Low-E glass is the most energy-efficient glass we have ever offered. It rejects unwanted solar heat to help reduce cooling costs and blocks 95% of UV rays that can cause your home furnishings to fade — all while providing a clear view.

LOW-E GLASS

Energy-efficient Low-E glass is available in all Andersen® 100 Series products, and can help reduce energy bills in any climate.

DUAL-PANE GLASS

Dual-pane glass is available for projects where codes allow its use*.

PERFORMANCE COMPARISON OF ANDERSEN® 100 SERIES GLASS OPTIONS**

SEE PAGE 34 FOR MORE DETAILS

	SmartSun™	Low-E	Dual Pane
U-Factor (Lower is better)	0.28	0.29	0.41
Solar Heat Gain Coefficient (Lower is better)	0.19	0.28	0.52
Visible Light Transmittance (Higher is better)	0.43	0.47	0.54
UV Rays Blocked by Glass (Higher is better)	95%	84%	42%

PATTERNED GLASS

Our patterned glass is ideal in bathrooms, entryways, offices and other areas where you want to let light into the home while obscuring the vision of people outside. It delivers all the benefits of Low-E glass and can also be ordered with SmartSun™ Low-E glass.



Obscure



Cascade



Reed



Fern

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Obscure



Cascade



Reed



Fern

HARDWARE

You get attractive hardware that performs reliably for years.*

WINDOW HARDWARE

All window hardware is white to match the interior of your windows.



Casement and awning hardware folds down so it doesn't interfere with window treatments.



Single-hung and gliding windows feature hardware that automatically locks when windows are closed. A Window Opening Control Device is available, which limits raising the sash to less than 4" when the window is first opened.



Optional single-hung lift/gliding window handle

PATIO DOOR HARDWARE

Tulsa and Afton hardware options are available. Tulsa hardware exterior handles match the door's exterior color, while interior handles are white to match the interior. Afton hardware has the same finish inside and out, and is available in Bright Brass, Antique Brass, Satin Nickel and Black finishes. Also available, an optional auxiliary foot lock that secures the gliding panel in the track. It provides an extra measure of security when the door is in a locked position.

TULSA HARDWARE



Exterior Handle
(Shown in Dark Bronze)

Interior Handle

AFTON HARDWARE



Exterior Handle

Interior Handle

(Shown in Satin Nickel)



Bright Brass



Antique Brass



Satin Nickel



Black

COLOR

Choose the right color to enhance the beauty of your home.



Dark Bronze



Cocoa Bean



Terratone®



Sandtone



White

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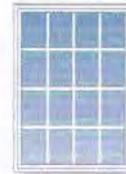
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Modified Colonial



Prairie A



Short Fractional



Tall Fractional



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Renaissance



Sunburst

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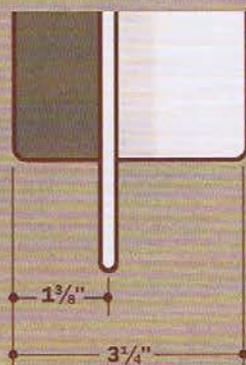
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Drawings depict window dimensions.
Patio doors feature a 5-1/8" frame width.

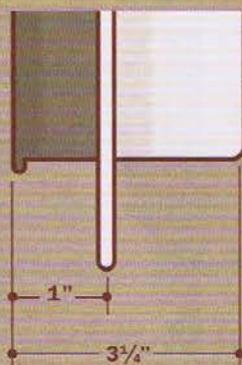
1-3/8" Flange Setback

This popular style offers the greatest flexibility and looks great with any siding or trim.



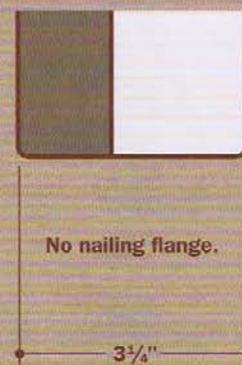
1" Flange Setback with Stucco Key

Hide normal shrinkage around the frame to easily create a perfect stucco finish.



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*See the Andersen 100 Series limited warranty for details.

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WINDOWS • DOORS
Andersen

Come home to Andersen.™

Andersen® 100 Series Windows and Doors

Andersen Windows, Inc.

Ten-Year (10) Limited Warranty

owner2owner
LIMITED WARRANTY

Andersen® 100 Series window and door units are warranted to be free from defects in manufacturing, materials and workmanship for ten (10) years from the date of purchase from the retailer/dealer. The glass is also warranted not to develop, under normal conditions, any material obstruction of vision resulting from manufacturing defects or as a result of premature failure of the glass or organic seal for ten (10) years from the date of purchase from the retailer/dealer.

In the event a component fails as a result of a defect in manufacturing, materials or workmanship within the limited warranty period, Andersen, at its option, will: (1) provide replacement parts to the Andersen retailer/dealer you specify—installation labor is not included; or (2) provide a factory authorized repair to the existing component at no cost to you; or (3) refund the original purchase price or retailer's/dealer's price at the time of the original purchase, whichever is less. Such replacement parts or repairs are warranted for the remainder of the original limited warranty period.

General conditions and exclusions

The limited warranty set forth in this document is the only express warranty (whether written or oral) applicable to Andersen 100 Series windows and doors, and no one is authorized to modify or expand this limited warranty. All warranty claims must be made during the applicable warranty period.

ALL IMPLIED WARRANTIES INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WILL EXPIRE WITH THE TERM OF THE 10 YEAR LIMITED WARRANTY. ANDERSEN EXCLUDES AND WILL NOT PAY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES AND ITS LIABILITY WILL IN ALL INSTANCES BE LIMITED TO REPAIR OR REPLACEMENT OR REFUND OF THE ACTUAL PURCHASE PRICE OF THE DEFECTIVE PRODUCT.

Some states do not allow the exclusion or limitation of incidental or consequential damages or limitation of the duration of an implied warranty, so the above limitations or exclusions may not apply to you.

This limited warranty is only applicable in the U.S.A. (i.e. the fifty states and the District of Columbia). This limited warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

What is not covered by this limited warranty

Product failure or damage due to improper installation or modification including:

- Adjustments or corrections due to improper installation
- Failures due to product modifications or glass shading devices (e.g., glass tinting, security systems, improper painting or staining, insulated coverings, etc.)
- Units improperly assembled or improperly mulled by others
- Failure due to the application of non-Andersen hardware (e.g., locksets, trim sets, hinges, panic hardware, closers, etc.)
- Failure to properly install Andersen hardware

Damage caused by the following:

- Improper maintenance or use, including use of a non-commercial door as a main entrance or exit door for a building other than a single-family residential unit
- Exposure to conditions beyond published performance specifications
- Water infiltration other than as a result of a defect in manufacturing, materials or workmanship
- Condensation
- Using brickwash, razor blades or sealants
- Sanding or improper washing
- Chemicals or airborne pollutants, such as salt or acid rain
- Delivery by others
- Accidents
- Acts of God
- Normal wear and tear

Additional items excluded from this limited warranty:

- Labor to replace sash or door panels, glass or other components
- Labor and other costs related to the removal and disposal of defective product
- Labor and materials to paint or stain any repaired or replaced product, component, trim or other carpentry work that may be required
- Products not manufactured by Andersen
- Slight glass curvature, minor scratches or other imperfections in the glass that do not impair structural integrity or significantly obscure normal vision
- Tarnish or corrosion to hardware finishes
- Service trips to provide instruction on product use
- Applicable taxes and freight
- Removal and re-installation of a previously installed Andersen product into a different structure
- Replacement parts for products outside the applicable warranty period
- Glass that is not factory applied by Andersen
- All other Andersen window and door products, Andersen storm doors and Renewal by Andersen products have their own limited warranties and are not covered by this limited warranty.

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Andersen Windows, Inc.
Andersen Service Center
100 Fourth Avenue North
Bayport, MN 55003-1096

You may also contact us using the Customer Care section of our website at www.andersenwindows.com or reach us by phone at 1-888-888-7020.

You can help us serve you faster by collecting and including the following important information:

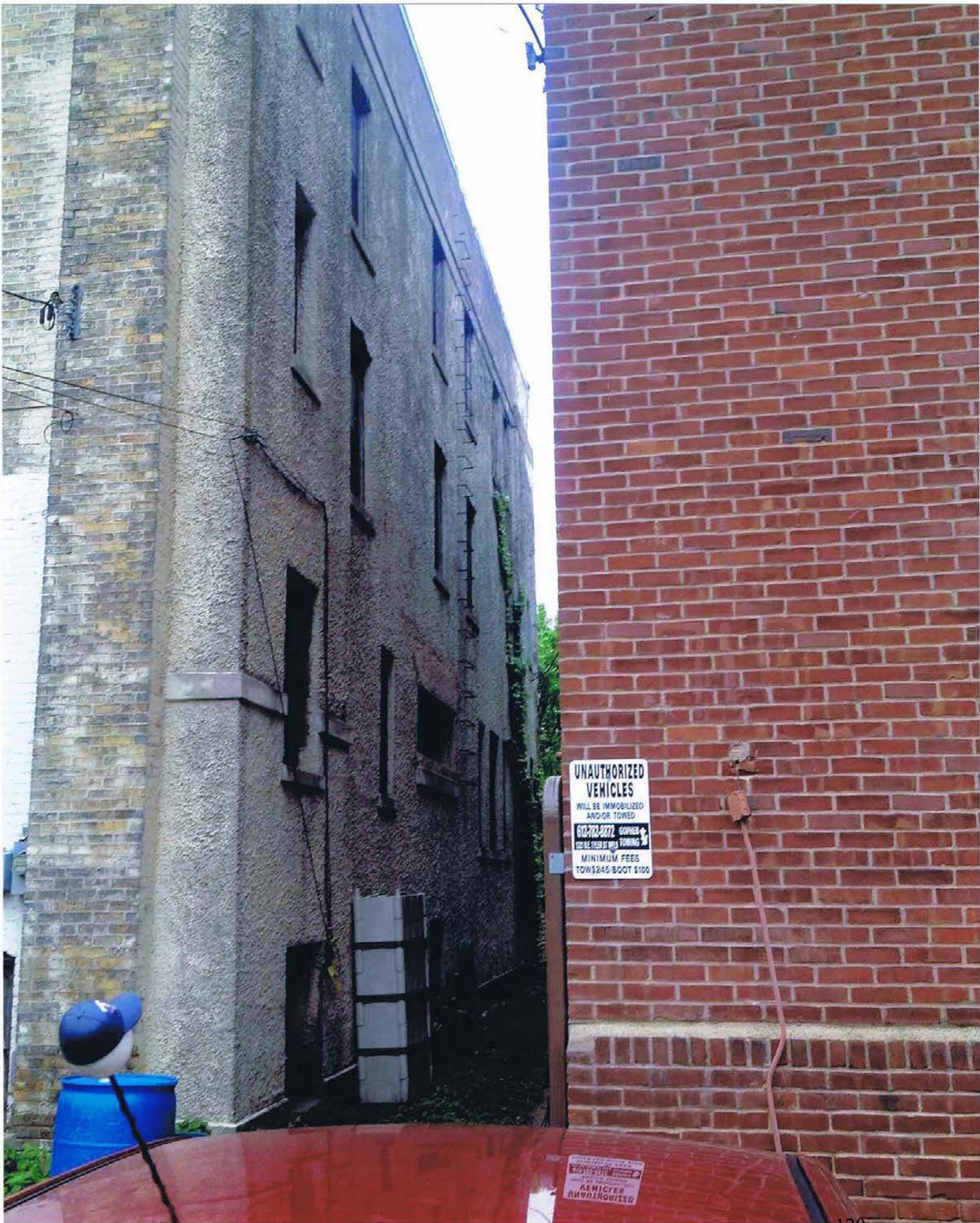
- Description of the product such as the exterior color, unit size or inside visible glass measurements
- Product ID label information
- Description of product concerns
- Documentation of the purchase date, if available
- Your name, address (with zip code) where the product is installed and telephone numbers

If the limited warranty period has expired or for repairs not covered by warranty, many replacement parts are available for purchase. When warranty coverage is unclear, Andersen may charge an inspection fee for any on-site product inspection. If the inspector determines the Andersen® product has a defect covered by this limited warranty, the inspection fee will be waived.

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International Division
100 Fourth Avenue North
Bayport, MN 55003-1096 USA

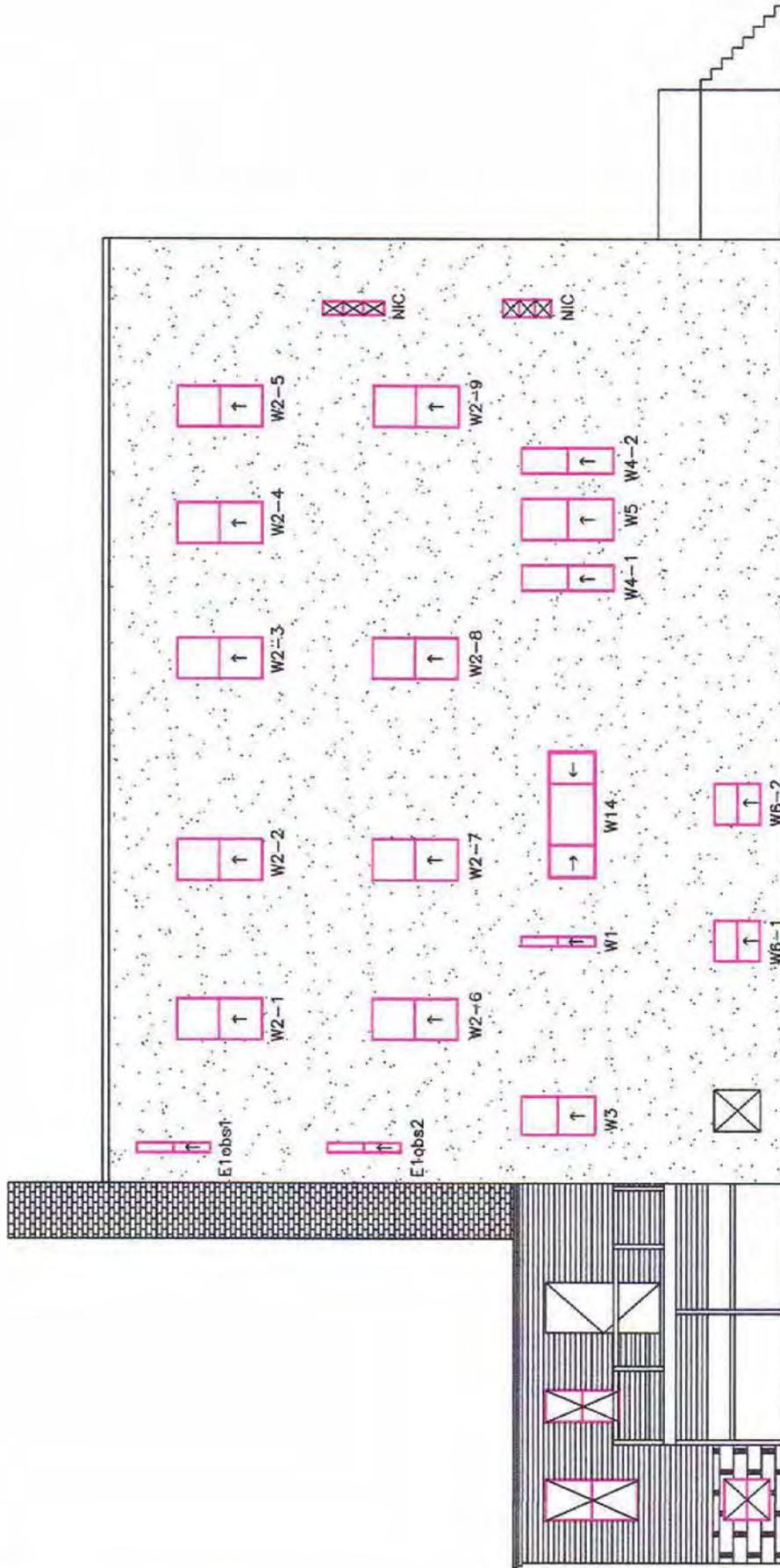
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UNAUTHORIZED
VEHICLES
WILL BE IMMOBILIZED
AND/OR TOWED
602-700-8877 GARAGE
200-45-1028 ST. LOUIS TOWING MO
MINIMUM FEES
TOW \$245 BOOT \$100

UNAUTHORIZED
VEHICLE
IMMOBILIZED

West Elevation



West Elev (Andersen replacement)

Student Cooperative Housing
1721 University Ave SE

West Elevation

W1-obs1



Student Cooperative Housing
1721 University Ave SE

West Elevation

W1-obs2



Student Cooperative Housing
1721 University Ave SE

West Elevation

W1



Student Cooperative Housing
1721 University Ave SE

West Elevation

W2-1



Student Cooperative Housing
1721 University Ave SE

West Elevation

W2-2



Student Cooperative Housing
1721 University Ave SE

West Elevation

W2-3



Student Cooperative Housing
1721 University Ave SE

West Elevation

W2-4



Student Cooperative Housing
1721 University Ave SE

West Elevation

W2-5



Student Cooperative Housing
1721 University Ave SE

West Elevation

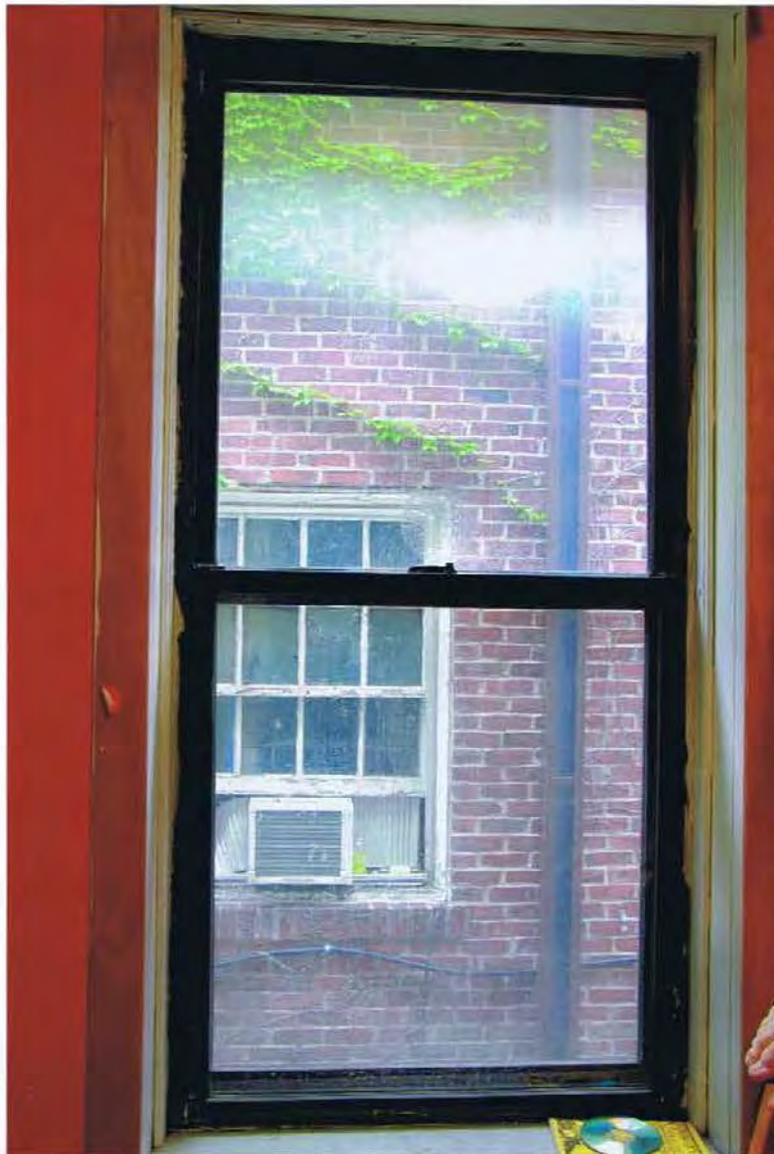
W2-6



Student Cooperative Housing
1721 University Ave SE

West Elevation

W2-7



Student Cooperative Housing
1721 University Ave SE

West Elevation

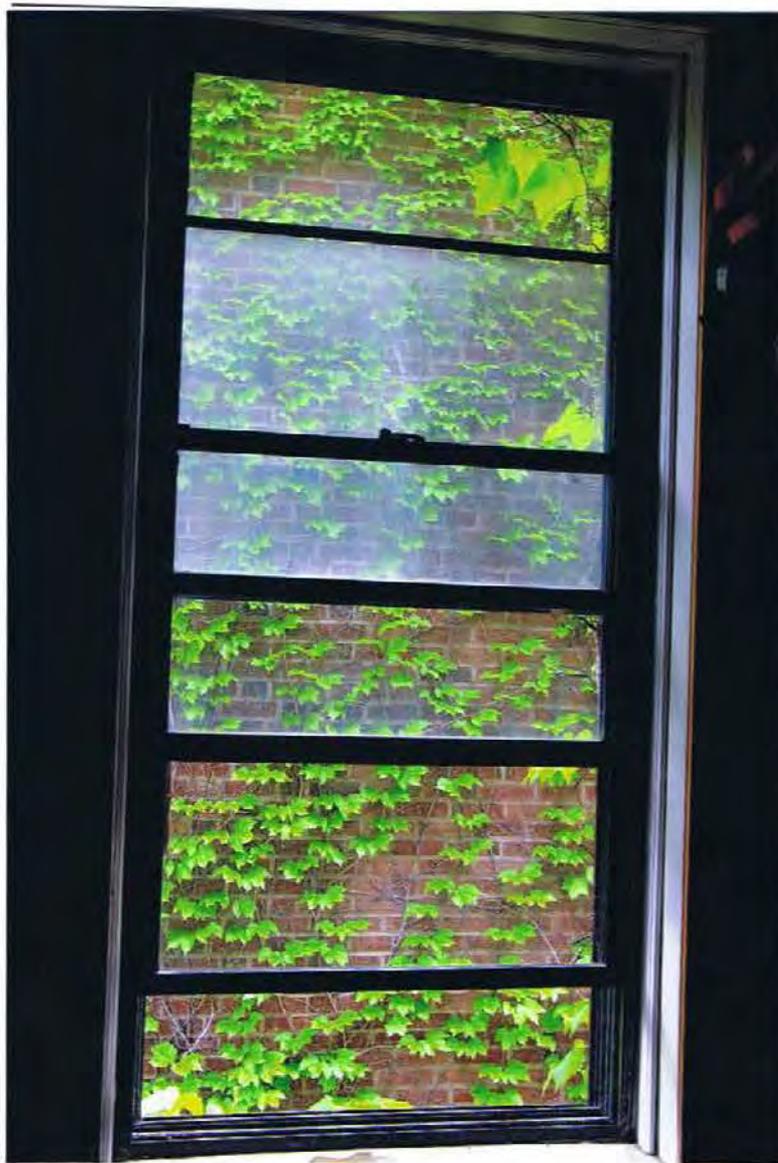
W2-8



Student Cooperative Housing
1721 University Ave SE

West Elevation

W2-9



Student Cooperative Housing
1721 University Ave SE

West Elevation

W3



Student Cooperative Housing
1721 University Ave SE

West Elevation

W4-1



Student Cooperative Housing
1721 University Ave SE

West Elevation

W4-2



Student Cooperative Housing
1721 University Ave SE

West Elevation

W5



Student Cooperative Housing
1721 University Ave SE

West Elevation

W6-1



Student Cooperative Housing
1721 University Ave SE

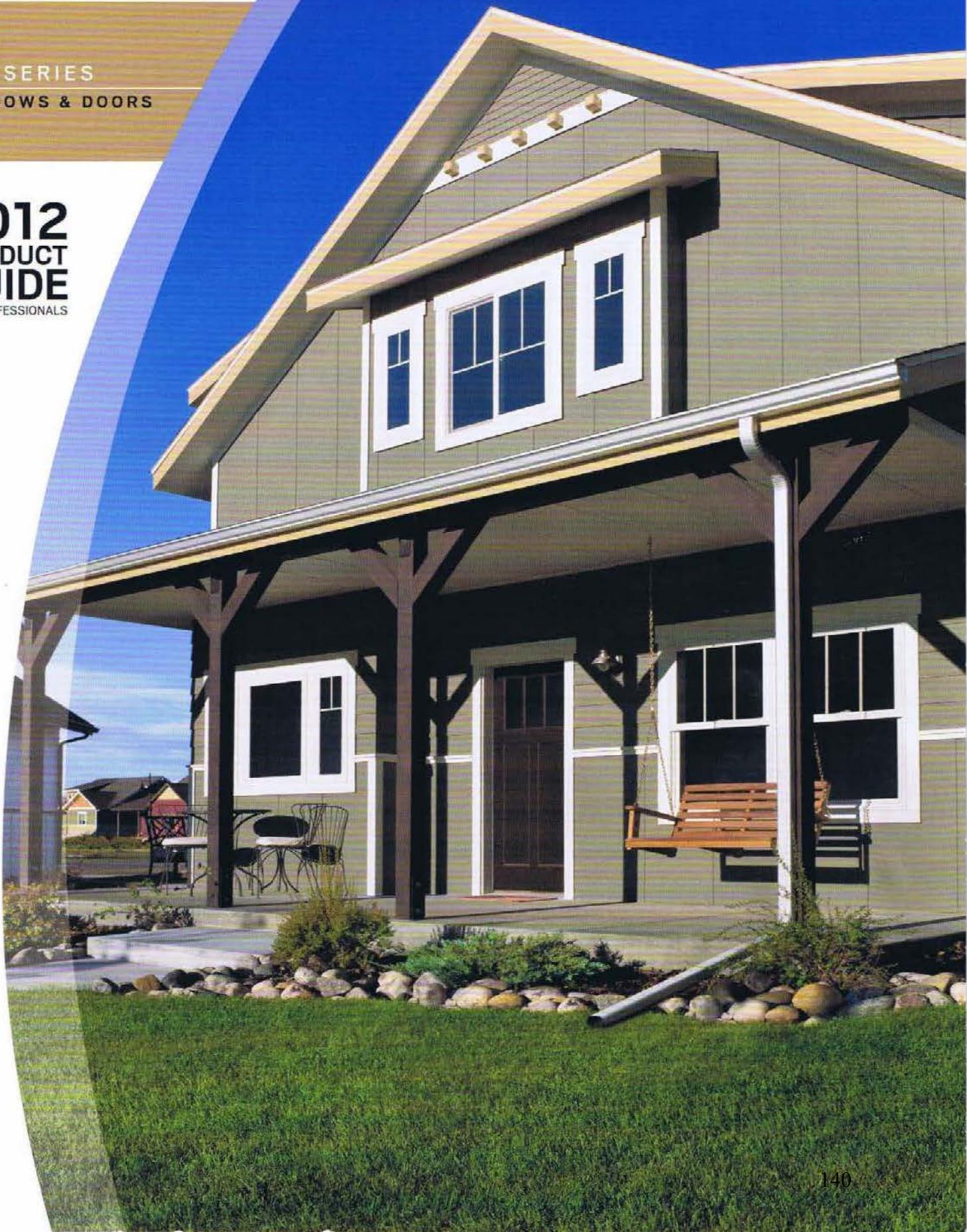
West Elevation

W6-2



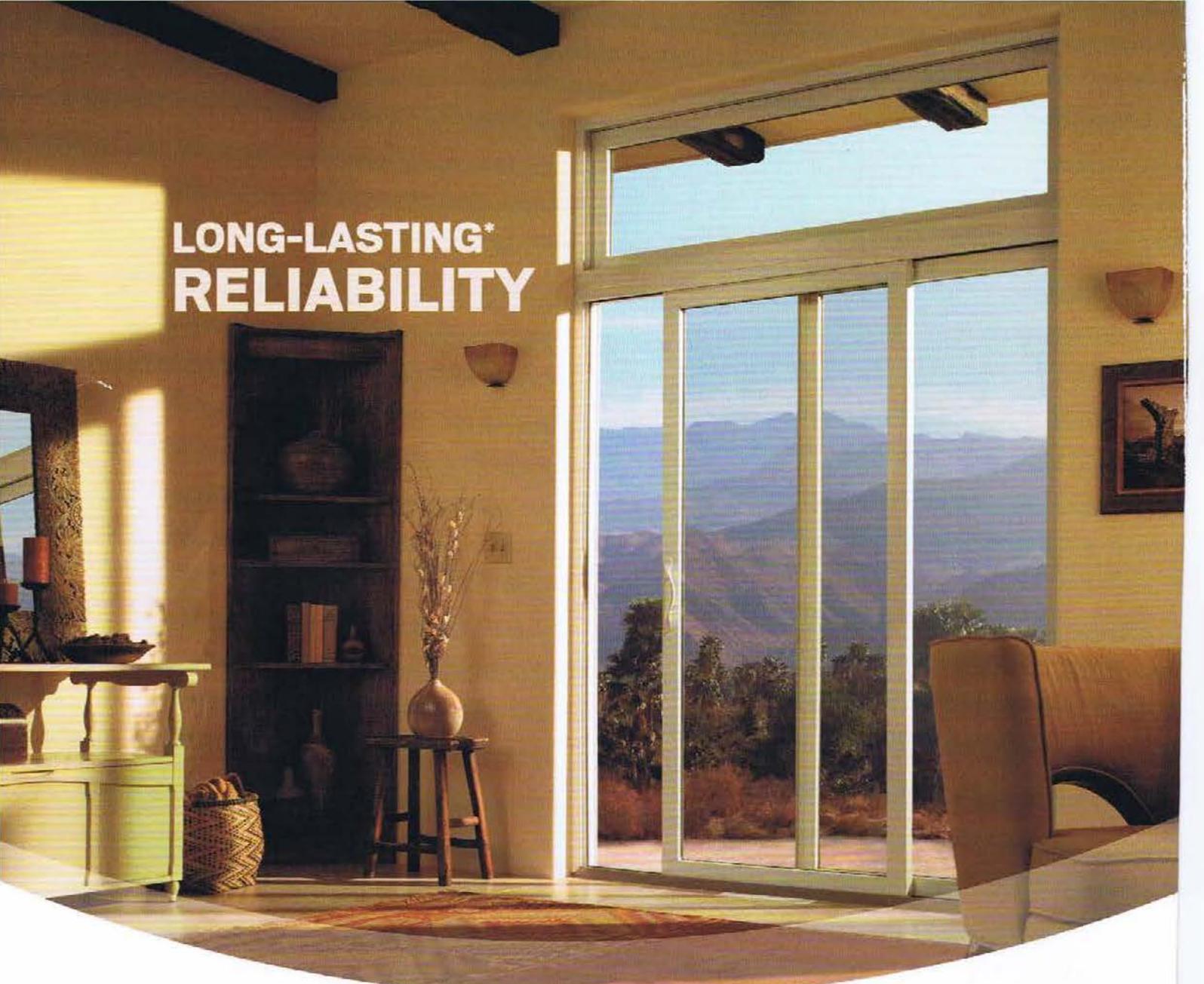
100 SERIES
WINDOWS & DOORS

2012
PRODUCT
GUIDE
FOR PROFESSIONALS



ALL THE **FEATURES YOU WANT.** INCLUDING THE PRICE.

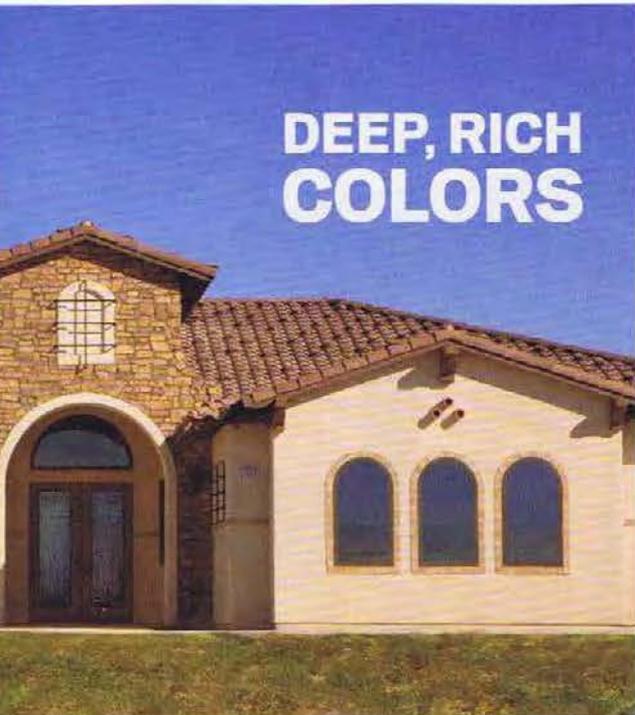
Whether you're replacing, remodeling or building, now you can bring Andersen beauty, craftsmanship and time-tested performance into a home for less than you may expect. Andersen® 100 Series windows and patio doors are made with our patented, revolutionary Fibrex® composite material, which allows us to offer an uncommon value others can't. It's environmentally responsible and energy efficient, and it comes in durable, deep, rich colors you can't get with vinyl.



**LONG-LASTING*
RELIABILITY**

Durable Andersen® 100 Series products come with factory-finished interiors and exteriors that never need painting and won't fade, flake, blister, chalk or peel.*

*See the limited warranty for details.



DEEP, RICH COLORS



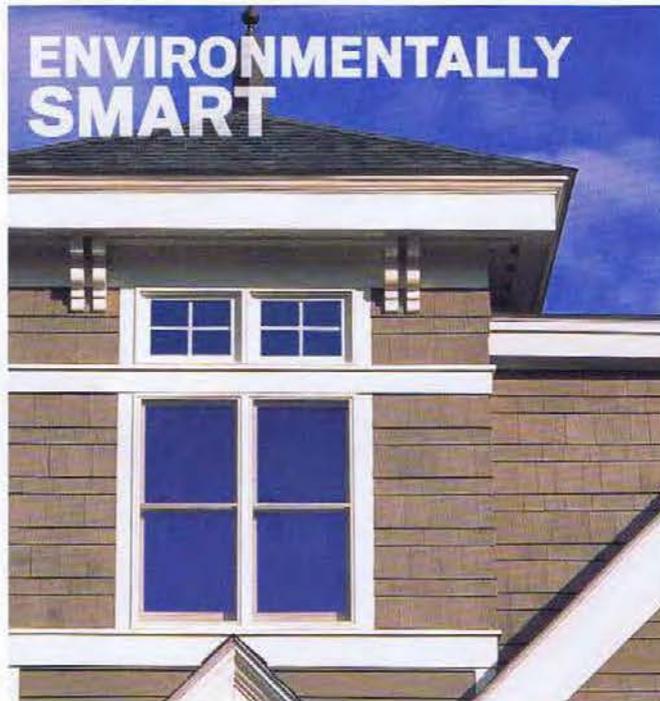
Deep, rich colors, including Dark Bronze, complement virtually any architectural style.

MADE POSSIBLE BY OUR EXCLUSIVE FIBREX® MATERIAL

FibreX® material is more than just environmentally responsible. It's also durable and beautiful. Here's what helps make FibreX® material so revolutionary:

- FibreX® material is **twice as strong as vinyl**, so weathertight seals stay weathertight.
- Our unique fabrication process **blends the color with the FibreX® material** for long-lasting* beauty.
- It blocks thermal transfer nearly 700 times better than aluminum to help **reduce heating and cooling bills**.
- For **exceptional durability**, FibreX® material retains its stability and rigidity in all climates.

Andersen® 100 Series windows come in beautiful, dark colors that can set a home apart.



ENVIRONMENTALLY SMART

Andersen® 100 Series products are made with our FibreX® composite material. It's composed of 40% reclaimed wood fiber by weight, most of which is created during the manufacture of Andersen® wood windows.



40% reclaimed wood fiber by weight.

WHY ANDERSEN® 100 SERIES WINDOWS & DOORS ARE AN EASY CHOICE.



All Andersen® 100 Series windows and patio doors feature the performance, durability and ease of use you've come to expect from Andersen. They not only provide energy efficiency, beauty and reliability today, but they'll also continue to add value to a home tomorrow and for years* to come.

*See the limited warranty for details.

ENERGY EFFICIENCY

It pays to understand performance.

Look for the National Fenestration Rating Council® (NFRC) performance information. It's your assurance you're getting accurate energy performance ratings from a nonpartisan, nonprofit organization. Here's what the numbers mean:

U-Factor measures the window's insulating capability. The lower the value, the less heat is lost through the entire product.

Visible Transmittance refers to how much visible light comes through a product. The higher the number, the better.

Solar Heat Gain Coefficient (SHGC) measures how well a product blocks heat from the sun. The lower the number, the more it helps reduce air conditioning bills.

Visit andersenwindows.com/100series for details. Click on "Windows" or "Doors" underneath the Andersen logo, then click on the NFRC link on the right-hand side.



Custom sizes for a weathertight fit.

Andersen® 100 Series windows and patio doors are available in custom sizes, which helps provide a more weathertight fit for any replacement project.



Save money by saving energy.

Energy-efficient Andersen® 100 Series products with optional SmartSun™ glass* meet ENERGY STAR® qualifications throughout the United States to help **lower heating and cooling bills**. What's more, the Fibrex® material used for Andersen® 100 Series frames and sash blocks thermal transfer nearly 700 times better than aluminum.

RELIABILITY

Easy operation for years* to come.

All Andersen® 100 Series products are **tested to the extreme** to deliver years* of smooth, reliable operation.

Take comfort in superior weather resistance.

Our weather-resistant construction **seals out drafts, wind and water** so well, you can relax in comfort whatever the weather. We carefully select weatherstripping to match each style of window and door to make sure you enjoy superior comfort and reliability.

BEAUTY

Virtually seamless corners.

To give your windows, patio doors and your home a beautiful, clean look, Andersen® 100 Series products feature virtually seamless corners.



100 Series corner seam



Vinyl corner seam



Five colors for beautiful curb appeal.

From White and Sandtone to deep, rich Cocoa Bean, Dark Bronze and Terratone® colors, 100 Series windows and doors complement any home.



Quality so solid, the warranty is transferable.*

Most other window and door warranties end when a home is sold, but Andersen® 100 Series products' 10-year coverage transfers from each homeowner to the next. And, because it's not prorated, the coverage offers **full benefits, year after year, owner after owner**.

Never needs painting.

Andersen® 100 Series windows and doors **won't fade, flake, blister, chalk or peel,*** no matter what the climate.

Improve your view with TruScene® insect screens.

With **over 50% more clarity** than conventional insect screens, optional TruScene® insect screens for windows give you beautifully unobstructed views. They let more sunlight and fresh air into the home while keeping some of the smallest insects out.**

CHOOSE THE WINDOWS, DOORS & OPTIONS THAT ARE RIGHT FOR YOU.

WINDOW & DOOR TYPES

Building an energy-efficient home doesn't mean you have to compromise. Andersen® 100 Series windows and doors come in styles, shapes and even custom sizes to create the look you want.



SINGLE-HUNG WINDOWS

This style features a stationary upper sash that is also available with an arched top.



CASEMENT & AWNING WINDOWS

Both styles open with a simple turn of a handle and can also be ordered as stationary windows.



GLIDING WINDOWS

These units have one stationary sash and one that opens. A three-sash configuration, where two sash glide past a fixed center sash, is also available.



GLIDING PATIO DOORS

Patio doors feature one stationary panel and one that glides smoothly on adjustable rollers. They feature a multi-point locking system for enhanced security, and an optional exterior keyed lock for convenience. Sidelight and transom windows are also available.



SPECIALTY WINDOWS

Arch, Springline™, half circle, quarter circle, full circle, rectangle and other geometric shapes are available to complement a home's architecture. Curved specialty windows are not available in custom sizes.



CUSTOM SIZES

Available in custom sizes to fit all projects, including replacement.

GLASS

Choose the right glass to maximize performance.

SMARTSUN™ GLASS

SmartSun™ Low-E glass is the most energy-efficient glass we have ever offered. It rejects unwanted solar heat to help reduce cooling costs and blocks 95% of UV rays that can cause your home furnishings to fade — all while providing a clear view.

LOW-E GLASS

Energy-efficient Low-E glass is available in all Andersen® 100 Series products, and can help reduce energy bills in any climate.

DUAL-PANE GLASS

Dual-pane glass is available for projects where codes allow its use*.

PERFORMANCE COMPARISON OF ANDERSEN® 100 SERIES GLASS OPTIONS**

SEE PAGE 34 FOR MORE DETAILS

	SmartSun™	Low-E	Dual Pane
U-Factor (Lower is better)	0.28	0.29	0.41
Solar Heat Gain Coefficient (Lower is better)	0.19	0.28	0.52
Visible Light Transmittance (Higher is better)	0.43	0.47	0.54
UV Rays Blocked by Glass (Higher is better)	95%	84%	42%

PATTERNED GLASS

Our patterned glass is ideal in bathrooms, entryways, offices and other areas where you want to let light into the home while obscuring the vision of people outside. It delivers all the benefits of Low-E glass and can also be ordered with SmartSun™ Low-E glass.



Obscure



Cascade



Reed



Fern

HARDWARE

You get attractive hardware that performs reliably for years!

WINDOW HARDWARE

All window hardware is white to match the interior of your windows.



Casement and awning hardware folds down so it doesn't interfere with window treatments.



Single-hung and gliding windows feature hardware that automatically locks when windows are closed. A Window Opening Control Device is available, which limits raising the sash to less than 4" when the window is first opened.



Optional single-hung lift/gliding window handle

PATIO DOOR HARDWARE

Tulsa and Afton hardware options are available. Tulsa hardware exterior handles match the door's exterior color, while interior handles are white to match the interior. Afton hardware has the same finish inside and out, and is available in Bright Brass, Antique Brass, Satin Nickel and Black finishes. Also available, an optional auxiliary foot lock that secures the gliding panel in the track. It provides an extra measure of security when the door is in a locked position.

TULSA HARDWARE



Exterior Handle (Shown in Dark Bronze) Interior Handle

AFTON HARDWARE



Exterior Handle Interior Handle (Shown in Satin Nickel)



Bright Brass Antique Brass Satin Nickel Black

COLOR

Choose the right color to enhance the beauty of your home.



Dark Bronze Cocoa Bean Terratone®



Sandtone White

EXTERIOR COLORS

Andersen® 100 Series products come in five exterior colors, including Dark Bronze and Cocoa Bean — colors that are darker and richer than most vinyl windows.

WHITE INTERIORS

Andersen® 100 Series windows and doors feature an attractive matte white finish inside. This gives you the ability to select the exterior color without compromising options for interior decoration.

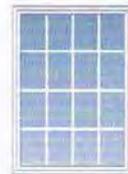
Printing limitations prevent exact color duplication. See your Andersen dealer for actual color samples.

GRILLES

Customize the look of your windows and doors with Andersen® grilles.



Andersen® 100 Series products are available with **Finelight™** grilles-between-the-glass that make window and patio door glass easy to clean. They have an elegant, sculpted profile, plus they offer a **two-sided color scheme**, allowing you to have grilles that match not only the white interior but also your exterior color choice.



Colonial



Modified Colonial



Prairie A



Short Fractional



Tall Fractional



Victorian



Renaissance



Sunburst

SPECIFIED EQUAL LIGHT
Any number of same-size rectangles across or down. Some limitations apply.



(2 x 2)



(1 x 3)

INSECT SCREENS

Insect screens for windows and patio doors have a fiberglass screen cloth. Optional **TruScene®** insect screens for windows are made with a micro-fine stainless steel mesh providing **50% more clarity** than our conventional insect screens.

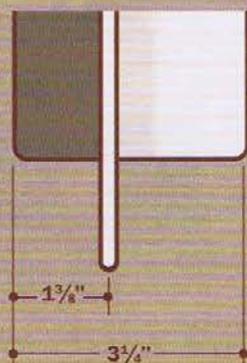
What professionals need.

Wherever you work and whatever style of home you're building or remodeling, you'll find a window or door to match in the Andersen® 100 Series product line. Enjoy easy installation on the jobsite, along with superior product performance and unbeatable service after the job is done. All 100 Series windows feature a 3-1/4" total width, which provides plenty of space for easy drywall returns.

Drawings depict window dimensions.
Patio doors feature a 5-1/8" frame width.

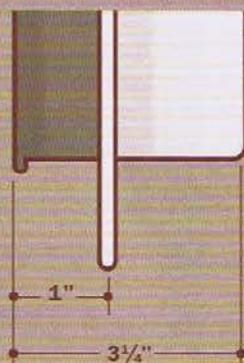
1-3/8" Flange Setback

This popular style offers the greatest flexibility and looks great with any siding or trim.



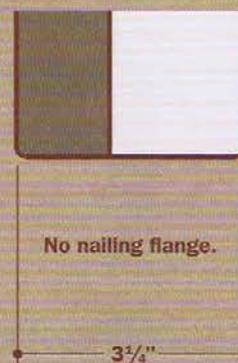
1" Flange Setback with Stucco Key

Hide normal shrinkage around the frame to easily create a perfect stucco finish.



Replacement Configuration

Order 100 Series products without a nailing flange for replacement projects.



THE ENVIRONMENT HAS A BUSINESS PARTNER.

Respect for the environment is nothing new at Andersen.

For more than a century, it's been part of who we are. Our commitment to recycle and reclaim materials began simply because it was good business. Now it's part of our commitment to sustainability and responsible stewardship of all our resources. Andersen is committed to providing you with long-lasting, energy-efficient windows and doors.



Andersen makes windows and doors that meet **ENERGY STAR**® performance requirements in all 50 states. Andersen Corporation was awarded the U.S. Environmental Protection Agency's ENERGY STAR Sustained Excellence Award in 2012.



Andersen is a charter member of the **U.S. Green Building Council** and a strong supporter of its **LEED**® (Leadership in Energy and Environmental Design) Green Building Rating System.



Andersen was the first window and door manufacturer with **Green Seal**™ certified products.

owner2owner™ LIMITED WARRANTY

Most window and patio door warranties are prorated and end when a home is sold. Ours keeps its full value for 10 years and transfers from owner to owner, so it can add to the resale value of your home.*



*Printed on FSC®-certified paper manufactured with electricity in the form of renewable energy (wind, hydro and biogas). The cover and introductory pages include a minimum of 30% post-consumer recycled fiber, and the Technical Specifications pages include a minimum of 10% post-consumer recycled fiber.

See the Andersen 100 Series limited warranty for details.

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WINDOWS • DOORS
Andersen

Come home to Andersen.™

Andersen® 100 Series Windows and Doors

Andersen Windows, Inc.

Ten-Year (10) Limited Warranty

owner²owner[®]
LIMITED WARRANTY

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- Units improperly assembled or improperly mulled by others
- Failure due to the application of non-Andersen hardware (e.g., locksets, trim sets, hinges, panic hardware, closers, etc.)
- Failure to properly install Andersen hardware

Damage caused by the following:

- Improper maintenance or use, including use of a non-commercial door as a main entrance or exit door for a building other than a single-family residential unit
- Exposure to conditions beyond published performance specifications
- Water infiltration other than as a result of a defect in manufacturing, materials or workmanship
- Condensation
- Using brickwash, razor blades or sealants
- Sanding or improper washing
- Chemicals or airborne pollutants, such as salt or acid rain
- Delivery by others
- Accidents
- Acts of God
- Normal wear and tear

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- Labor and other costs related to the removal and disposal of defective product
- Labor and materials to paint or stain any repaired or replaced product, component, trim or other carpentry work that may be required
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- Slight glass curvature, minor scratches or other imperfections in the glass that do not impair structural integrity or significantly obscure normal vision
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- Service trips to provide instruction on product use
- Applicable taxes and freight
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Andersen Windows, Inc.
Andersen Service Center
100 Fourth Avenue North
Bayport, MN 55003-1096

You may also contact us using the Customer Care section of our website at www.andersenwindows.com or reach us by phone at 1-888-888-7020.

You can help us serve you faster by collecting and including the following important information:

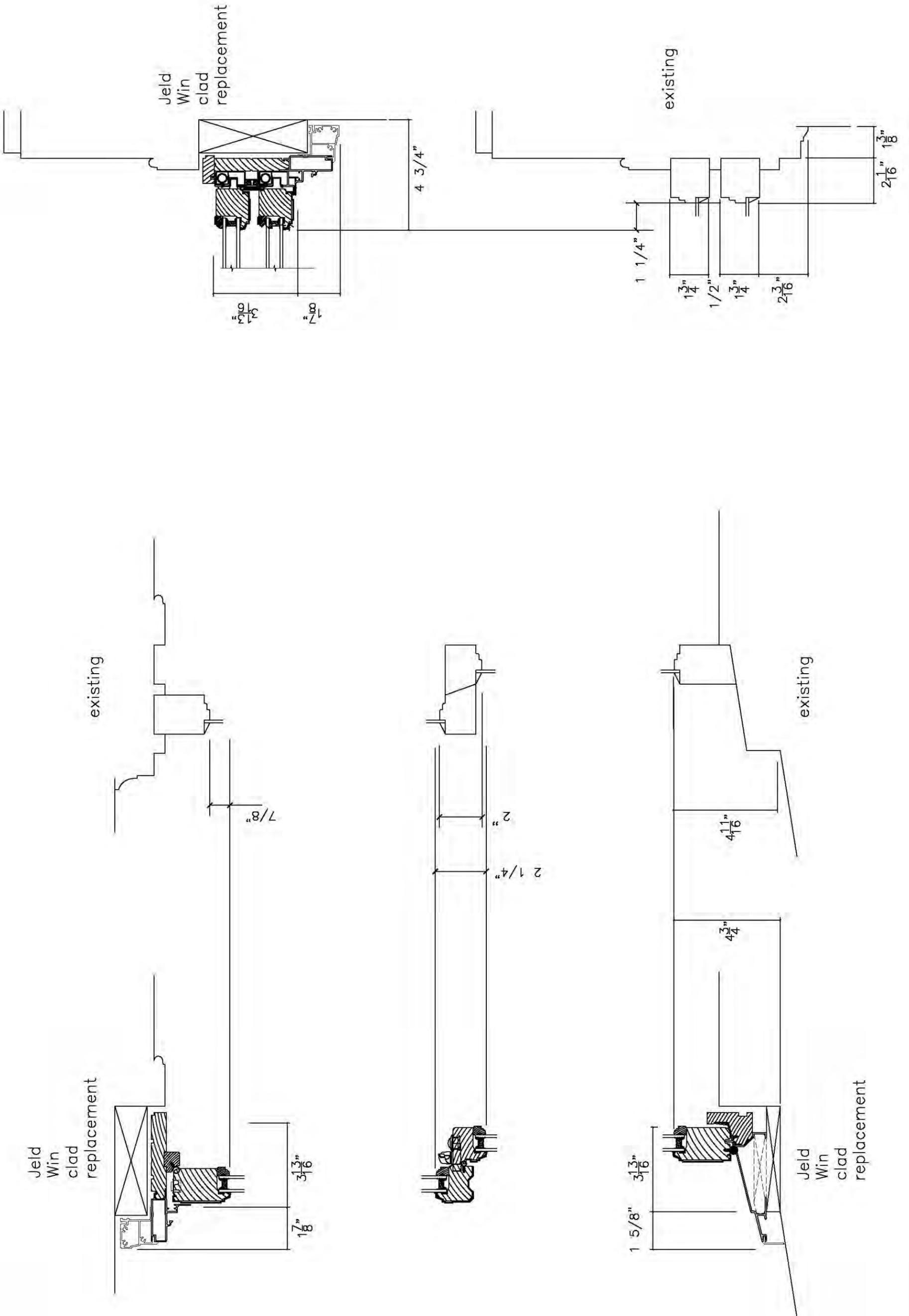
- Description of the product such as the exterior color, unit size or inside visible glass measurements
- Product ID label information
- Description of product concerns
- Documentation of the purchase date, if available
- Your name, address (with zip code) where the product is installed and telephone numbers

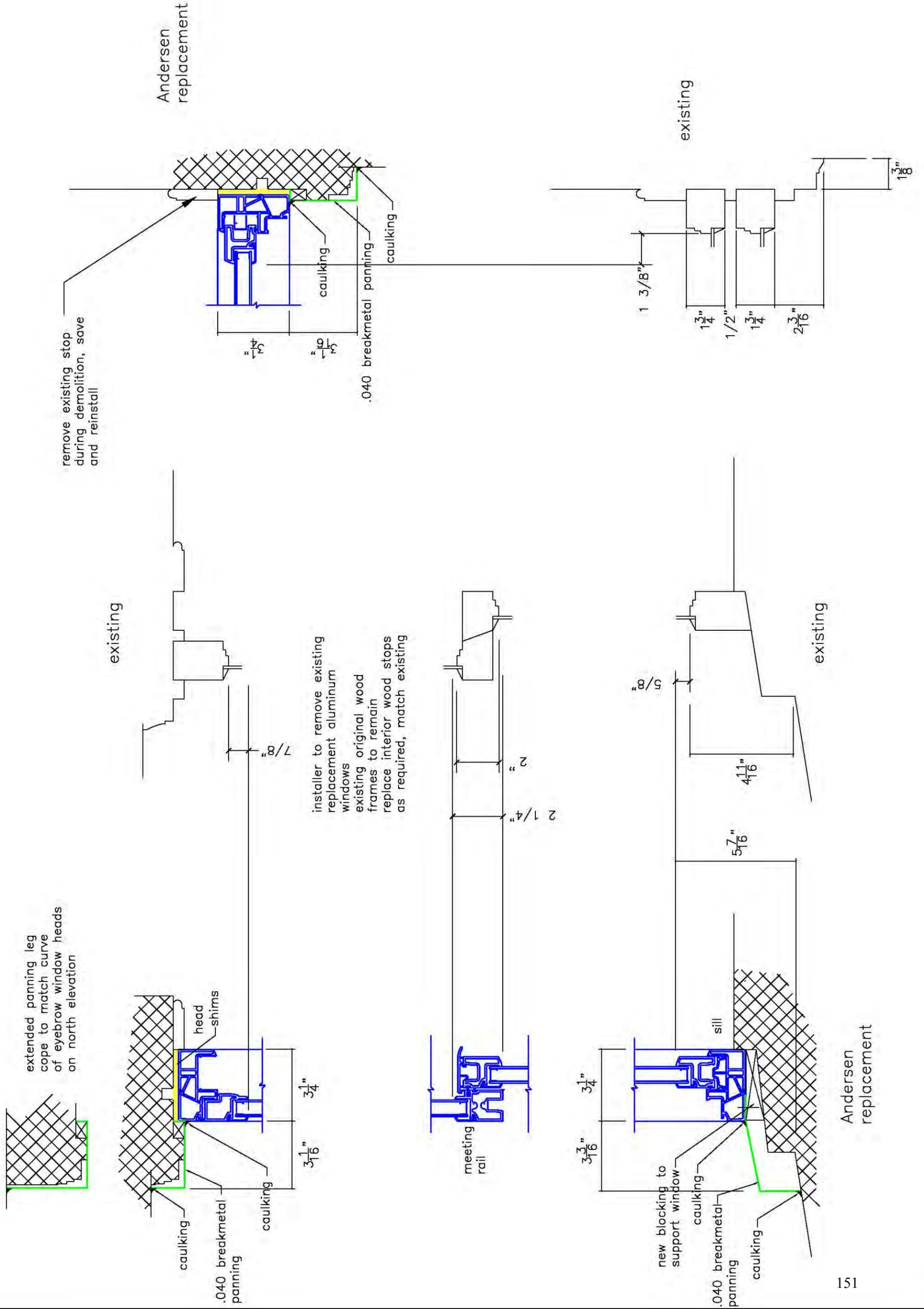
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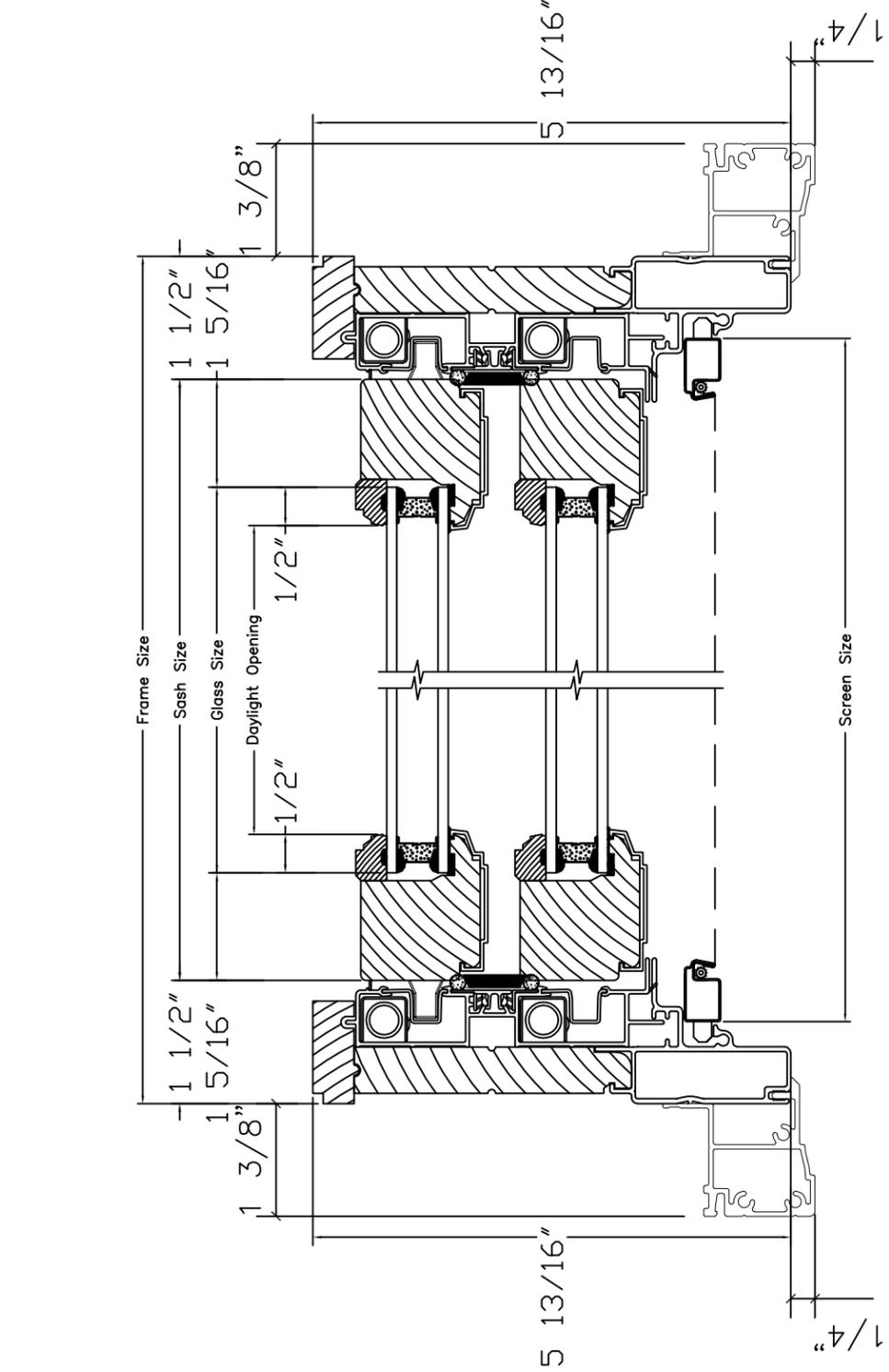
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International Division
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Bayport, MN 55003-1096 USA

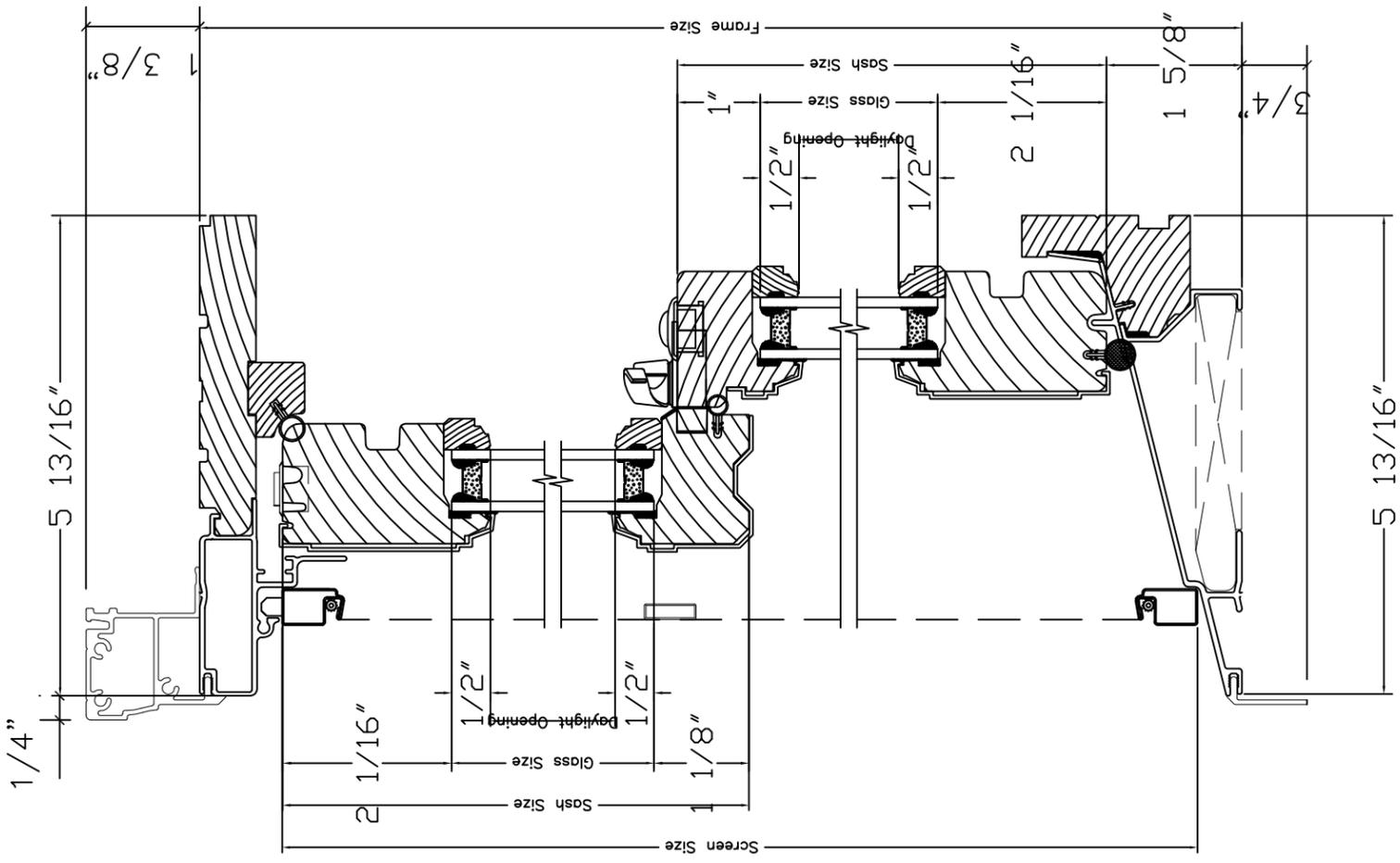
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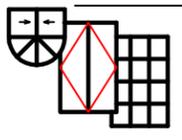
Horizontal Section



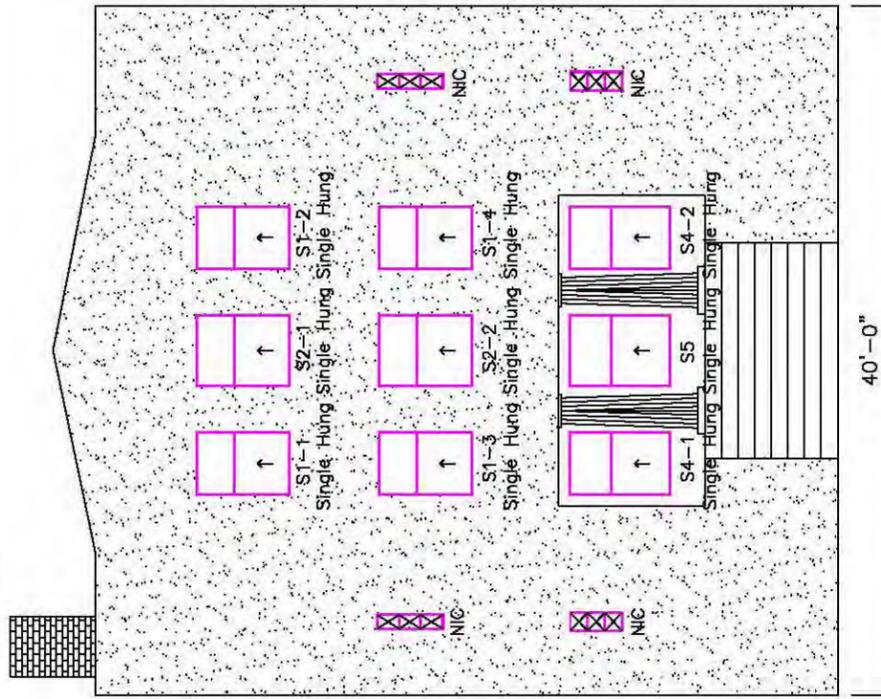
Vertical Section

STUDENTS CO-OPERATIVE INC.
 1721 UNIVERSITY AVE. S.E.
 MINNEAPOLIS, MN 55414
 Jeld-Wen Clad SH dimensions
 HALF SCALE @ 11 X 17
 Sept. 25, 2013 by Beckerwoods

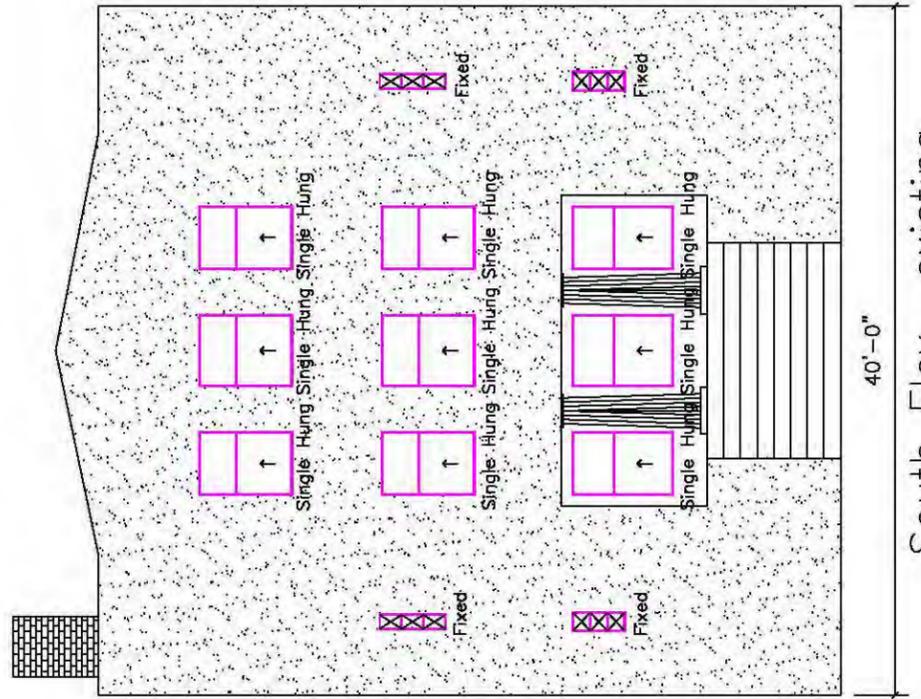
13325 Commerce Blvd
 Rogers, MN 55374
 P-(612) 749-3433
 EMAIL: mwwins@charter.net



Midwest Window Systems, LLC



South Elev (Jed-Wen replacement)



South Elev existing



East Elev (Andersen replacement)



East Elev existing

STUDENTS CO-OPERATIVE INC.
1721 UNIVERSITY AVE. S.E.
MINNEAPOLIS, MN 55414
BUILDING ELEVATIONS W/WINDOW TYPES
SCALE 3/32" = 12"
Sept. 25, 2013 by Beckerwoods

13325 Commerce Blvd
Rogers, MN 55374
P-(612) 749-3433
EMAIL: mwwins@charter.net



Mark	Qty	field meas	wdo dlm	Type	notes
S1	4	44 1/2" X 65"	45" X 65 3/4"	SH	
S2	2	50" X 65"	50 1/2" X 65 3/4"	SH	
S4	2	44 1/2" x 71"	45" x 71 3/4"	SH	
S5	1	50" x 71"	50 1/2" x 71 3/4"	SH	
N1	2	30 3/4" x 65"	31 1/4" x 65 3/4"	SH	eyebrow ext
N2	1	23" x 56 1/2"	23 1/2" x 57 1/4"	SH	eyebrow ext
N3	1	30 3/4" x 56 1/2"	31 1/4" x 57 1/4"	SH	eyebrow ext
N5obs	2	23" x 56 1/2"	23 1/2" x 57 1/4"	SH	eyebrow ext
E1	2	29" x 65"	29 1/2" x 65 3/4"	SH	7" mull cover ext. x72" long
E2	4	32 1/2" x 34 1/4"	31 1/2" x 34 1/4"	SH	
E3	2	18 3/4" x 46 3/4"	19 1/4" x 47 1/2"	SH	
E4	1	32 1/4" x 65"	32 3/4" x 65 3/4"	SH	
E5	4	30 3/4" x 65"	31 1/4" x 65 3/4"	SH	
E6	6	30 3/4" x 71"	31 1/4" x 71 3/4"	SH	
E7	1	43" x 71"	43 1/2" x 71 3/4"	SH	
E8	4	30 3/4" x 40 3/4"	31 1/4" x 41 1/2"	SH	
W1	1	18 3/4" x 56 1/2"	19 1/4" x 57 1/4"	SH	
W1obs	2	18 3/4" x 56 1/2"	19 1/4" x 57 1/4"	SH	
W2	9	30 3/4" x 65"	31 1/4" x 65 3/4"	SH	
W3	1	30 3/4" x 56 1/2"	31 1/4" x 57 1/4"	SH	
W4	2	18 3/4" x 71"	19 1/4" x 71 3/4"	SH	
W5	1	34 3/4" x 71"	35 1/4" x 71 3/4"	SH	
W6	2	30 3/4" x 40 3/4"	31 1/4" x 41 1/2"	SH	
W14	1	80" x 31 1/4"	79 1/2" x 30 3/4"	SLIDER	picture slider 1/4-1/2-1/4

REPLACEMENT WINDOW SCHEDULE

Students Co-operative Housing
1721 University Ave. SE
Minneapolis, MN 55414

By Beckerwoods
Sept. 25, 2013