

HDC

ADMINISTRATIVE APPROVALS

February 09, 2022

- | | | |
|----|--|-----------------------|
| 1. | 500 Market Street, Unit 7 (LUHD-428) | -Recommended Approval |
| 2. | 500 Market Street, Unit 6L (LUHD-427) | -Recommended Approval |
| 3. | 500 Market Street, Unit 12L (LUHD-426) | -Recommended Approval |

1. 500 Market Street, Unit 7 - Recommended Approval

Background: The applicant is seeking approval for the replacement of (3) windows.

Staff Comment: Recommended Approval

Stipulations:

1. _____
2. _____
3. _____



City of Portsmouth, NH

02/04/2022

LUHD-428

Historic District Commission Work Session or Administrative Approval Application

Status: Active**Date Created:** Jan 20, 2022**Applicant**

Jaime Morin
rbabostonpermitting@andersencorp.com
30 Forbes Rd
Northborough, MA 01532
508-351-2277

Location

500 MARKET ST Unit 7
Unit 7
Portsmouth, NH 03801

Owner:

Anthony Wilson
520 SOUTH ST PORTSMOUTH, NH 03801

Application Type**Please select application type from the drop down menu below**

Administrative Approval

Alternative Project Address

--

Project Information**Brief Description of Proposed Work**

Replacement of 3 windows

Description of Proposed Work (Planning Staff)

--

Acknowledgement**I certify that the information given is true and correct to the best of my knowledge.****By checking this box, I agree that this is equivalent to a handwritten signature and is binding for all purposes related to this transaction****I hereby certify that as the applicant for permit, I am**

Other

If you selected "Other" above, please explain your relationship to this project. Owner authorization is required.

Contractor

INTERNAL USE ONLY -- Historic District Commission Review and Approval**HDC Certificate of Approval Granted****HDC Approval Date**

--

Planning Staff Comments

--



Agreement Document and Payment Terms

DBA: RENEWAL BY ANDERSEN OF BOSTON

Legal Name: Renewal by Andersen LLC

HIC# 170810

30 Forbes Road | Northborough, MA 01532

Phone: (508) 351-2200 | Fax: (508) 986-7072 | rbaboston@gmail.com

Anthony Wilson

500 Market St. Unit #7

Portsmouth, NH 03801

H: (603)294-4526

Anthony Wilson

10/04/21

BUYER(S) NAME

CONTRACT DATE

500 Market St. Unit #7, Portsmouth, NH 03801

(603)294-4526

BUYER(S) STREET ADDRESS

PRIMARY NUMBER

SECONDARY NUMBER

bianca@awplasticsurgery.com

PRIMARY EMAIL

SECONDARY EMAIL

Buyer(s) hereby jointly and severally agrees to purchase the products and/or services of Renewal by Andersen LLC d/b/a Renewal By Andersen of Boston("Contractor"), in accordance with the terms and conditions described in this Agreement Document and Payment Terms, any documents listed in the Table of Contents, and any other document attached to this Agreement Document, the terms of which are all agreed to by the parties and incorporated herein by reference (collectively, this "Agreement"). Buyer(s) hereby agrees to sign a completion certificate after Contractor has completed all work under this Agreement.

TOTAL JOB AMOUNT: \$17,495

By signing this Agreement, you acknowledge that the Balance Due, and the Amount Financed must be made by personal check, bank check, credit card, or cash.

DEPOSIT RECEIVED: \$5,831

BALANCE DUE: \$11,664

Estimated Start:
16-18 Weeks

Estimated Completion:
2-3 Days

AMOUNT FINANCED: \$0

METHOD OF PAYMENT: Credit Card

We schedule installations based on the date of the signed contract and secondarily on the date in which we complete the technical measurements. The installation date that we are providing at this time is only an estimate. We will communicate an official date and time at a later date. Rain and extreme weather are the most common causes for delay.

NOTES: 1/3 Down; 1/3 Start; 1/3 Finish Sub. Comp.

Buyer(s) agrees and understands that this Agreement constitutes the entire understandings between the parties and that there are no verbal understandings changing or modifying any of the terms of this Agreement. No alterations to or deviations from this Agreement will be valid without the signed, written consent of both the Buyer(s) and Contractor. Buyer(s) hereby acknowledges that Buyer(s) 1) has read this Agreement, understands the terms of this Agreement, and has received a completed, signed, and dated copy of this Agreement, including the two attached Notices of Cancellation, on the date first written above and 2) was orally informed of Buyer's right to cancel this Agreement.

NOTICE TO BUYER: Do not sign this contract if blank. You are entitled to a copy of the contract at the time you sign.

YOU, THE BUYER, MAY CANCEL THIS TRANSACTION AT ANY TIME NOT LATER THAN MIDNIGHT OF 10/07/2021 OR THE THIRD BUSINESS DAY AFTER THE DATE OF THIS TRANSACTION, , WHICHEVER DATE IS LATER. SEE THE ATTACHED NOTICE OF CANCELLATION FORM FOR AN EXPLANATION OF THIS RIGHT.

SIGNATURE OF SALES PERSON

Michael Dechaine

PRINT NAME OF SALES PERSON

SIGNATURE

Anthony Wilson

PRINT NAME

SIGNATURE

PRINT NAME



Itemized Order Receipt

DBA: RENEWAL BY ANDERSEN OF BOSTON

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Anthony Wilson

500 Market St. Unit #7

Portsmouth, NH 03801

H: (603)294-4526

ID#:	ROOM:	DETAILS:
101	Unit 7	Patio Door , Gliding, 200 Series Narroline, 2 Panel, Active / Stationary, Exterior Terratone® , Interior Pine, Glass , All Sash: Tempered High Perf. SmartSun Glass, Hardware , Newbury® , Bright Brass, Exterior Keyed Lock, Auxiliary Foot Lock Color Matched, Screen , Gliding, Full Screen, Grille Style , No Grille, Misc , Remove and Replace Vinyl Siding, Remove vinyl siding and replace., Patio Door - Pre-Finished Patio Door Interior, Color: White
102	Unit 7	Patio Door , Gliding, 200 Series Narroline, 2 Panel, Active / Stationary, Exterior Terratone® , Interior Pine, Glass , All Sash: Tempered High Perf. SmartSun Glass, Hardware , Newbury® , Antique Brass, Exterior Keyed Lock, Auxiliary Foot Lock Color Matched, Screen , Gliding, Full Screen, Grille Style , No Grille, Misc , Remove and Replace Vinyl Siding, Remove vinyl siding and replace., Patio Door - Pre-Finished Patio Door Interior, Color: White
103	Unit 7	Patio Door , Gliding, 200 Series Narroline, 2 Panel, Active / Stationary, Exterior Terratone® , Interior Pine, Glass , All Sash: Tempered High Perf. SmartSun Glass, Hardware , Newbury® , Antique Brass, Exterior Keyed Lock, Auxiliary Foot Lock Color Matched, Screen , Gliding, Full Screen, Grille Style , No Grille, Misc , Remove and Replace Vinyl Siding, Remove vinyl siding and replace., Patio Door - Pre-Finished Patio Door Interior, Color: White
WINDOWS: 0	PATIO DOORS: 3	SPECIALTY: 0 MISC: 0 TOTAL \$17,495



Renewal by Andersen is committed to our customers' safety by complying with the rules and lead-safe work practices specified by the EPA.



Payment Authorization Form

DBA: RENEWAL BY ANDERSEN OF BOSTON

Legal Name: Renewal by Andersen LLC

HIC# 170810

30 Forbes Road | Northborough, MA 01532

Phone: (508) 351-2200 | Fax: (508) 986-7072 | rbaboston@gmail.com

Anthony Wilson

500 Market St. Unit #7

Portsmouth, NH 03801

H: (603)294-4526

Anthony Wilson

BUYER NAME

500 Market St. Unit #7

Portsmouth

ADDRESS

NH

03801

(603)294-4526

CITY

STATE

Michael Dechaine

ZIP CODE

PHONE NUMBER 1

PHONE NUMBER 2

\$17,495

SALES REP

CONTRACT BALANCE

PAYMENT SCHEDULE (\$17,495)

	CASH DEPOSIT (1)	FINANCE DEPOSIT (2)	START OF JOB (3)	SUBSTANTIAL COMPLETION (4)
CREDIT CARD	\$5,831	\$0	\$5,831	\$5,833

(1) CASH DEPOSIT: 1/3 of the purchase price is due at Contract Signing. This may be paid in part or in whole by cash, check, or credit card ("Cash Deposit").

(2) FINANCE DEPOSIT: 1/3 of the purchase price is due at Contract Signing. This may be paid in part or in whole with financing ("Finance Deposit").

(3) START OF JOB: 1/3 of the purchase price is due at Start of Job.

(4) SUBSTANTIAL COMPLETION: Final payment is due on the day of installation when all windows and/or doors included in this agreement have been installed into their openings and any interior and exterior trims have been applied ("Substantial Completion"). If there are any outstanding warranty claims or service items, customer may retain an amount equal to the value of the outstanding item(s) or work to be done, not to exceed 10% of the total purchase price. Due to project changes after Contract Signing, the final payment is subject to change.

BY SIGNING BELOW, I/WE, THE BUYER(S):

1. Authorize Renewal by Andersen to initiate debit or credit entries for payments based on the amount(s), form of payment(s), and timing specified in the Payment Authorization Schedule above.
2. Acknowledge that this Authorization is to remain in full-force and effect until Renewal by Andersen has received written notification from the Customer of its termination in such time and manner as to afford Renewal by Andersen and their Depository Institution a reasonable opportunity to act on it.
3. Acknowledge that the origination of a ACH transaction (recharging of checking account) or recharging of credit card to Customer's account must comply with the provisions of US Law.
4. Understand that if there is a change in the set date of a debit or credit entry, Renewal by Andersen must notify the customer minimally 7 days in advance.

Anthony Wilson

BUYER NAME

SIGNATURE

10/04/21

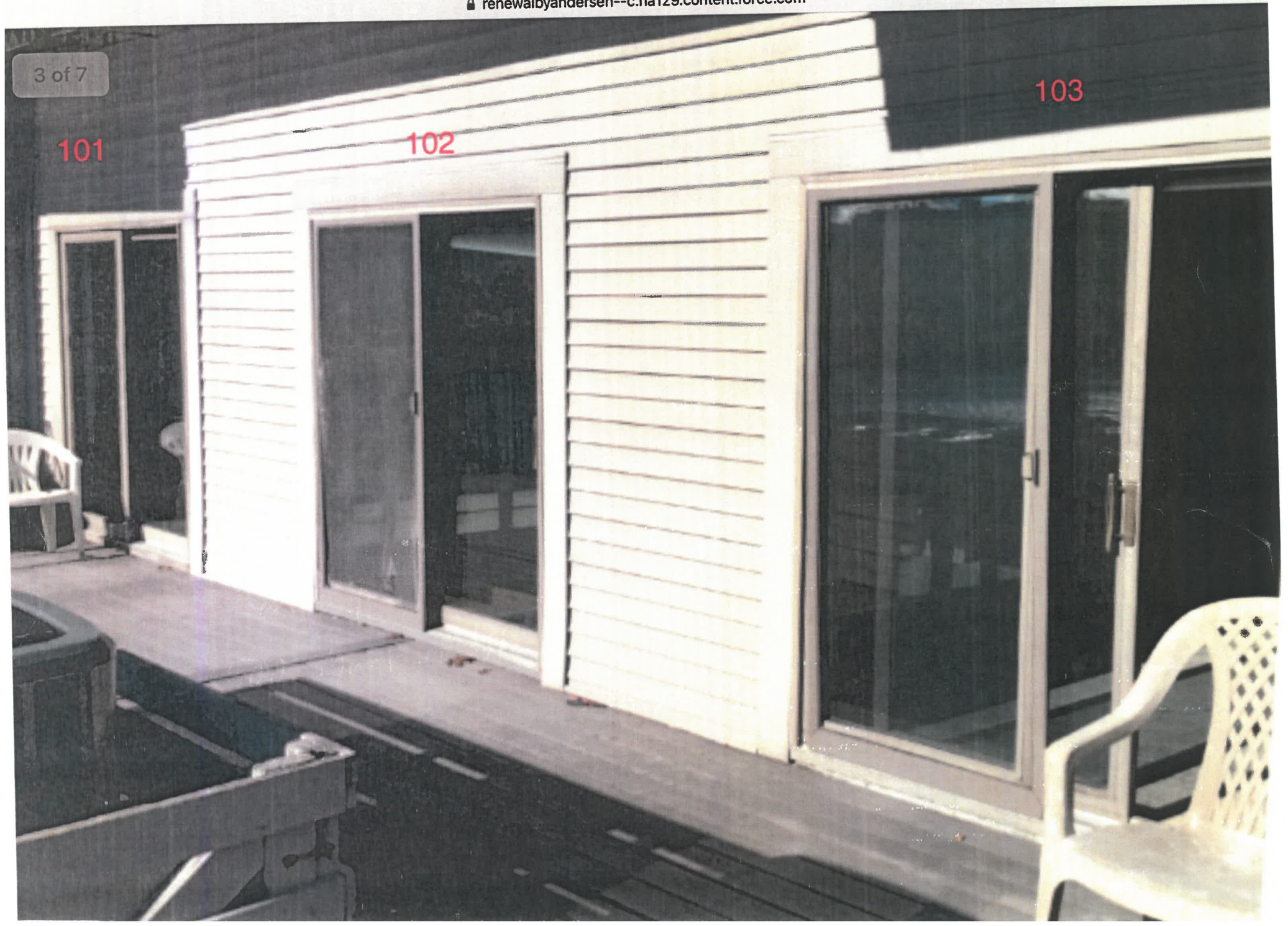
DATE

3 of 7

101

102

103





PRODUCT PERFORMANCE

Andersen® NFRC Certified Total Unit Performance (continued)

Andersen® Product	Glass Type	U-Factor ¹	SHGC ²	VT ³	
200 Series					
Tilt-Wash Double-Hung Window	Clear Dual Pane	0.46	0.60	0.63	—
	Clear Dual Pane with Grilles	0.45	0.54	0.56	—
	Low-E	0.30	0.32	0.55	—
	Low-E with Grilles	0.30	0.29	0.49	—
	HP Low-E4 SmartSun	0.30	0.21	0.49	—
	HP Low-E4 SmartSun w/Grilles	0.31	0.19	0.43	—
Narrowline® Double-Hung Window	Clear Dual Pane	0.46	0.61	0.64	—
	Clear Dual Pane with Grilles	0.45	0.54	0.57	—
	Low-E	0.30	0.32	0.58	—
	Low-E with Grilles	0.31	0.29	0.50	—
Narrowline® Transom Window	Clear Dual Pane	0.44	0.63	0.68	—
	Clear Dual Pane with Grilles	0.44	0.57	0.59	—
	Low-E	0.27	0.34	0.58	—
	Low-E with Grilles	0.27	0.30	0.52	—
Sliding Window	Clear Dual Pane	0.45	0.60	0.63	—
	Clear Dual Pane with Grilles	0.45	0.54	0.56	—
	Low-E	0.30	0.32	0.53	—
	Low-E with Grilles	0.30	0.29	0.49	—
	Low-E SmartSun	0.30	0.21	0.49	—
	Low-E SmartSun with Grilles	0.31	0.19	0.43	—
Fixed, Transom, Circle Top® Window	Clear Dual Pane	0.43	0.61	0.63	—
	Clear Dual Pane with Grilles	0.43	0.55	0.58	—
	Low-E	0.28	0.33	0.56	—
	Low-E with Grilles	0.28	0.30	0.50	—
	Low-E SmartSun	0.27	0.22	0.51	—
	Low-E SmartSun with Grilles	0.27	0.20	0.45	—
Narrowline® Sliding Patio Doors	Clear Dual Pane	0.44	0.61	0.64	—
	Clear Dual Pane with Grilles	0.45	0.55	0.58	—
	Low-E	0.29	0.32	0.58	—
	Low-E with Grilles	0.30	0.29	0.49	—
	Low-E Sun	0.29	0.20	0.31	—
	Low-E Sun with Grilles	0.31	0.18	0.27	—
Perma-Shield® Sliding Patio Doors	Low-E SmartSun	0.28	0.21	0.50	—
	Low-E SmartSun with Grilles	0.30	0.19	0.44	—
	Clear Dual Pane	0.45	0.61	0.64	—
	Clear Dual Pane with Grilles	0.43	0.54	0.58	—
	Low-E	0.28	0.32	0.58	—
	Low-E with Grilles	0.30	0.29	0.49	—
Hinged Inswing Patio Doors	Low-E Sun	0.29	0.19	0.30	—
	Low-E Sun with Grilles	0.30	0.17	0.27	—
	Low-E SmartSun	0.27	0.22	0.50	—
	Low-E SmartSun with Grilles	0.29	0.19	0.44	—
	Clear Dual Pane	0.43	0.45	0.47	—
	Clear Dual Pane with Grilles	0.43	0.39	0.40	—
	Low-E	0.32	0.24	0.41	—
	Low-E with Grilles	0.33	0.21	0.36	—
	Low-E Sun	0.32	0.15	0.23	—
	Low-E Sun with Grilles	0.34	0.13	0.19	—
	Low-E SmartSun	0.32	0.16	0.37	—
	Low-E SmartSun with Grilles	0.33	0.14	0.31	—

2. 500 Market Street, Unit 6L - Recommended Approval

Background: The applicant is seeking approval for the replacement of (5) windows.

Staff Comment: Recommended Approval

Stipulations:

1. _____
2. _____
3. _____

**LUHD-427**

Historic District Commission Work Session or Administrative Approval Application

Status: Active**Date Created:** Jan 20, 2022**Applicant**

Jaime Morin
rbabostonpermitting@andersencorp.com
30 Forbes Rd
Northborough, MA 01532
508-351-2277

Location

500 MARKET ST Unit 6L
Unit 6L
Portsmouth, NH 03801

Owner:

VALENTINE TRUST & VALENTINE THOMAS J AND BETTY
TRUSTEES
500 MARKET ST 6L PORTSMOUTH, NH 03801

Application Type**Please select application type from the drop down menu below**

Administrative Approval

Alternative Project Address

--

Project Information**Brief Description of Proposed Work**

Replacement of 5 windows

Description of Proposed Work (Planning Staff)

--

Project Representatives**Relationship to Project**

Other

If you selected "Other", please state relationship to project.

Contractor

Full Name (First and Last)

Jaime Morin

Business Name (if applicable)

Renewal By Andersen

Mailing Address (Street)

30 Forbes Road

City/Town

Northborough

State

Massachusetts

Zip Code

01532

Phone

5083512277

Email Address

rbabostonpermitting@andersencorp.com

Acknowledgement**I certify that the information given is true and correct to the best of my knowledge.**



Agreement Document and Payment Terms

DBA: RENEWAL BY ANDERSEN OF BOSTON

Legal Name: Renewal by Andersen LLC

HIC# 170810

30 Forbes Road | Northborough, MA 01532

Phone: (508) 351-2200 | Fax: (508) 986-7072 | rbaboston@gmail.com

Thomas & Betty Valentine

500 Market St. Unit 6L

Portsmouth, NH 03801

H: (603)502-8073

Thomas & Betty Valentine

10/04/21

BUYER(S) NAME

CONTRACT DATE

500 Market St. Unit 6L, Portsmouth, NH 03801

(603)502-8073

BUYER(S) STREET ADDRESS

PRIMARY NUMBER

SECONDARY NUMBER

tom.valentine12@gmail.com

PRIMARY EMAIL

SECONDARY EMAIL

Buyer(s) hereby jointly and severally agrees to purchase the products and/or services of Renewal by Andersen LLC d/b/a Renewal By Andersen of Boston("Contractor"), in accordance with the terms and conditions described in this Agreement Document and Payment Terms, any documents listed in the Table of Contents, and any other document attached to this Agreement Document, the terms of which are all agreed to by the parties and incorporated herein by reference (collectively, this "Agreement"). Buyer(s) hereby agrees to sign a completion certificate after Contractor has completed all work under this Agreement.

TOTAL JOB AMOUNT: \$18,867

By signing this Agreement, you acknowledge that the Balance Due, and the Amount Financed must be made by personal check, bank check, credit card, or cash.

DEPOSIT RECEIVED: \$6,288

BALANCE DUE: \$12,579

Estimated Start:
16-18 Weeks

Estimated Completion:
2-3 Days

AMOUNT FINANCED: \$0

METHOD OF PAYMENT: Credit Card

We schedule installations based on the date of the signed contract and secondarily on the date in which we complete the technical measurements. The installation date that we are providing at this time is only an estimate. We will communicate an official date and time at a later date. Rain and extreme weather are the most common causes for delay.

NOTES: 1/3 Down - VISA; 1/3 Start; 1/3 Finish Sub. Comp.

Buyer(s) agrees and understands that this Agreement constitutes the entire understandings between the parties and that there are no verbal understandings changing or modifying any of the terms of this Agreement. No alterations to or deviations from this Agreement will be valid without the signed, written consent of both the Buyer(s) and Contractor. Buyer(s) hereby acknowledges that Buyer(s) 1) has read this Agreement, understands the terms of this Agreement, and has received a completed, signed, and dated copy of this Agreement, including the two attached Notices of Cancellation, on the date first written above and 2) was orally informed of Buyer's right to cancel this Agreement.

NOTICE TO BUYER: Do not sign this contract if blank. You are entitled to a copy of the contract at the time you sign.

YOU, THE BUYER, MAY CANCEL THIS TRANSACTION AT ANY TIME NOT LATER THAN MIDNIGHT OF 10/07/2021 OR THE THIRD BUSINESS DAY AFTER THE DATE OF THIS TRANSACTION, , WHICHEVER DATE IS LATER. SEE THE ATTACHED NOTICE OF CANCELLATION FORM FOR AN EXPLANATION OF THIS RIGHT.

SIGNATURE OF SALES PERSON

Michael Dechaine

PRINT NAME OF SALES PERSON

SIGNATURE

Thomas Valentine

PRINT NAME

SIGNATURE

Betty Valentine

PRINT NAME



Itemized Order Receipt

DBA: RENEWAL BY ANDERSEN OF BOSTON

Legal Name: Renewal by Andersen LLC

HIC# 170810

30 Forbes Road | Northborough, MA 01532

Phone: (508) 351-2200 | Fax: (508) 986-7072 | rbaboston@gmail.com

Thomas & Betty Valentine

500 Market St. Unit 6L

Portsmouth, NH 03801

H: (603)502-8073

ID#:	ROOM:	DETAILS:
101	Bath	Window , Double-Hung (DG), 1:1, Full Frame, EJ Frame, Traditional Checkrail, Exterior Terratone, Interior Terratone, Glass , All Sash: High Performance SmartSun Glass, No Pattern, Hardware , Stone, Screen , TruScene, Full Screen, Grille Style , Interior Wood Only (INTW), Grille Pattern , All Sash: Colonial 3w x 2h, Misc , None
102	Kitchen	Window , Double-Hung (DG), 1:1, Full Frame, EJ Frame, Traditional Checkrail, Exterior Terratone, Interior Terratone, Glass , All Sash: High Performance SmartSun Glass, No Pattern, Hardware , Stone, Screen , TruScene, Full Screen, Grille Style , Interior Wood Only (INTW), Grille Pattern , All Sash: Colonial 3w x 2h, Misc , None
201	Bed	Window , Casement, Single, Right, Base Frame, Exterior Terratone, Interior Terratone, Glass , All Sash: High Performance SmartSun Glass, No Pattern, Hardware , Stone, Screen , TruScene, Full Screen, Grille Style , Interior Wood Only (INTW), Grille Pattern , All Sash: Colonial 4w x 4h, Misc , Grilles - Simulated Check Rail, Per Sash - Wide Bar FDL to simulate the look of DG
202	Bed	Window , Casement, Single, Right, Base Frame, Exterior Terratone, Interior Terratone, Glass , All Sash: High Performance SmartSun Glass, No Pattern, Hardware , Stone, Screen , TruScene, Full Screen, Grille Style , Interior Wood Only (INTW), Grille Pattern , All Sash: Colonial 4w x 4h, Misc , Grilles - Simulated Check Rail, Per Sash - Wide Bar FDL to simulate the look of DG



Itemized Order Receipt

DBA: RENEWAL BY ANDERSEN OF BOSTON

Legal Name: Renewal by Andersen LLC

HIC# 170810

30 Forbes Road | Northborough, MA 01532

Phone: (508) 351-2200 | Fax: (508) 986-7072 | rbaboston@gmail.com

Thomas & Betty Valentine

500 Market St. Unit 6L

Portsmouth, NH 03801

H: (603)502-8073

ID#: ROOM:

DETAILS:

203 Room 1

Window, Casement, Triple, 1:2:1, Left Vent / Stat / Right
Vent, EJ Frame, Exterior Terratone, Interior Terratone, **Glass**,
All Sash: High Performance SmartSun Glass, No Pattern,
Hardware, Stone, **Screen**, TruScene, Full Screen, **Grille Style**,
No Grille, **Misc**, None

WINDOWS: 5

PATIO DOORS: 0

SPECIALTY: 0

MISC: 0

TOTAL \$18,867



*Renewal by Andersen is committed to our customers' safety by
complying with the rules and lead-safe work practices specified by the EPA.*



Payment Authorization Form

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Thomas & Betty Valentine

500 Market St. Unit 6L

Portsmouth, NH 03801

H: (603)502-8073

Thomas Valentine

Betty Valentine

BUYER NAME**CO-BUYER NAME**

500 Market St. Unit 6L

Portsmouth

ADDRESS**CITY**

NH

03801

(603)502-8073

STATE**ZIP CODE****PHONE NUMBER 1****PHONE NUMBER 2**

Michael Dechaine

\$18,867

SALES REP**CONTRACT BALANCE****PAYMENT SCHEDULE (\$18,867)**

	CASH DEPOSIT (1)	FINANCE DEPOSIT (2)	START OF JOB (3)	SUBSTANTIAL COMPLETION (4)
CREDIT CARD	\$6,288	\$0	\$6,288	\$6,291

(1) CASH DEPOSIT: 1/3 of the purchase price is due at Contract Signing. This may be paid in part or in whole by cash, check, or credit card ("Cash Deposit").

(2) FINANCE DEPOSIT: 1/3 of the purchase price is due at Contract Signing. This may be paid in part or in whole with financing ("Finance Deposit").

(3) START OF JOB: 1/3 of the purchase price is due at Start of Job.

(4) SUBSTANTIAL COMPLETION: Final payment is due on the day of installation when all windows and/or doors included in this agreement have been installed into their openings and any interior and exterior trims have been applied ("Substantial Completion"). If there are any outstanding warranty claims or service items, customer may retain an amount equal to the value of the outstanding item(s) or work to be done, not to exceed 10% of the total purchase price. Due to project changes after Contract Signing, the final payment is subject to change.

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3. Acknowledge that the origination of a ACH transaction (recharging of checking account) or recharging of credit card to Customer's account must comply with the provisions of US Law.
4. Understand that if there is a change in the set date of a debit or credit entry, Renewal by Andersen must notify the customer minimally 7 days in advance.

Thomas Valentine

10/04/21

BUYER NAME**SIGNATURE****DATE**

Betty Valentine

10/04/21

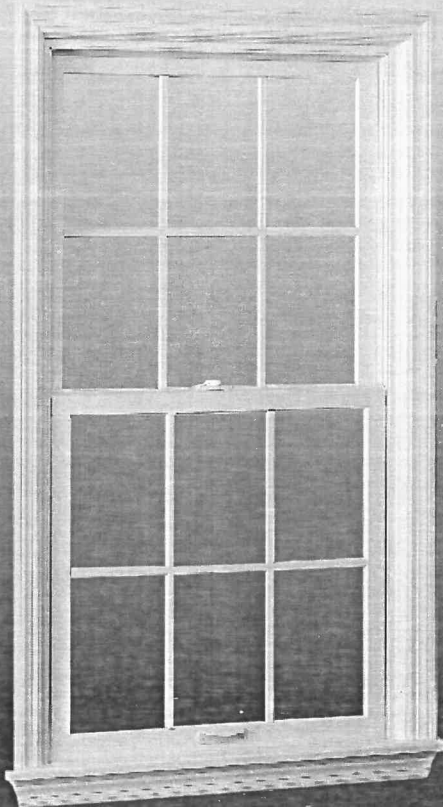
CO-BUYER NAME**SIGNATURE****DATE**





DOUBLE-HUNG WINDOW**ADVANTAGES AND APPLICATIONS**

A double-hung window consists of two vertically sliding sash in a single frame. Both sash are counterbalanced by a spring-powered block-and-tackle balance mounted on the side of each sash. Tilt latches for each sash allow inward tilting for easy cleaning. Upper and lower sash are securely closed by use of a cam-type sash lock. An insect screen is installed into the outside track.



*Double-Hung
Replacement Windows*

ADVANTAGES

- Both sash can be operated for ventilation at top and bottom of window.
- Both sash can be tilted inward for easy cleaning.
- Patented Fibrex® material is stronger than vinyl, providing greater durability.
- Fibrex material with low-maintenance capstock gives a rich, low-luster finish to sash and frame, similar to painted wood.
- Smooth radius surfaces on the frame and sash are pleasing to the eye and easier to clean.
- Mortise-and-tenon appearance on the interior and exterior sash corners gives a traditional, hand-crafted look.
- Full-perimeter weatherstrip provides superior weathertightness while still allowing easy sash operation.
- Sash are counterbalanced by a spring-powered block-and-tackle balance mounted on the side and matched to the weight of each individual sash.

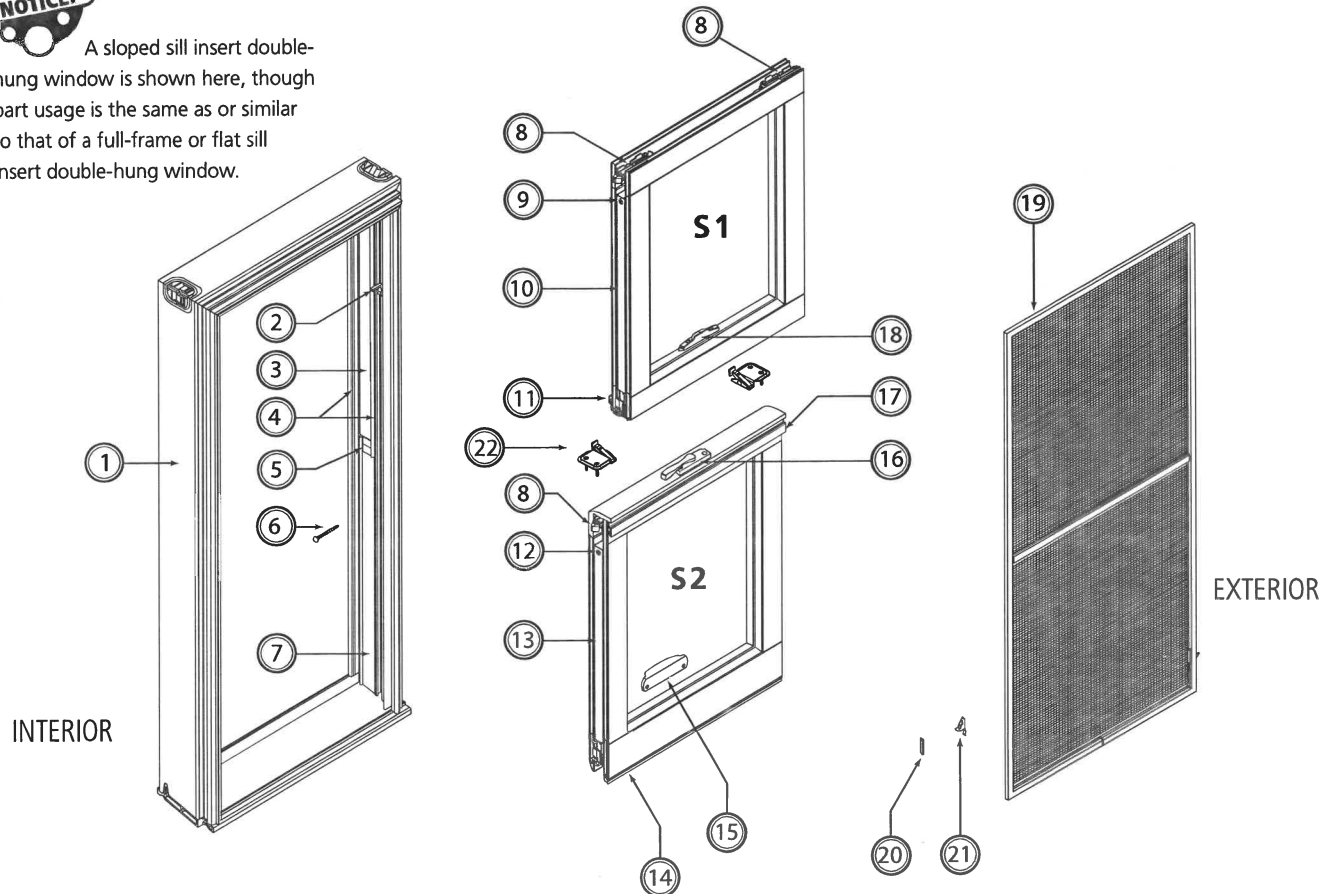
APPLICATIONS

- Excellent choice for homes and condominiums where traditional styling is important; appropriate for many restoration projects.
- Suitable in areas facing walkways, decks and other traffic areas because sash do not project outward.
- Convenient in areas where the sash need to be cleaned from the interior.
- Visually compatible with other Renewal by Andersen® products.

EXPLODED VIEW
DOUBLE-HUNG WINDOW



A sloped sill insert double-hung window is shown here, though part usage is the same as or similar to that of a full-frame or flat sill insert double-hung window.



DOUBLE-HUNG COMPONENTS

- | | | |
|--|--|--|
| 1. Frame (insert) | 8. Tilt latch | 16. Sash lock |
| 2. Wash assist | 9. Upper balance screw | 17. Interior sash interlock (lower sash) |
| 3. Side jamb liner weatherstrip (upper) | 10. Balance (upper sash) | 18. Sash keeper |
| 4. Side jamb liner (interior and exterior sash tracks) | 11. Exterior sash interlock (upper sash) | 19. Insect screen |
| 5. Side cover check rail weatherstrip | 12. Lower balance screw | 20. Universal insect screen latch retainer |
| 6. Balance end clip screw | 13. Balance (lower sash) | 21. Insect screen latch |
| 7. Side jamb liner weatherstrip (lower) with integrated fin pile | 14. Bottom rail weatherstrip | 22. Child safety opening control device (optional) |
| | 15. Sash lift (optional) | |

STANDARD FEATURES

DOUBLE-HUNG WINDOW



A sloped sill insert double-hung window corner section is shown here, though **standard features are the same as for flat sill insert or full-frame** double-hung windows.

Described below are features that contribute to the double-hung window's low maintenance, energy efficiency, ease of operation, and pleasing appearance.

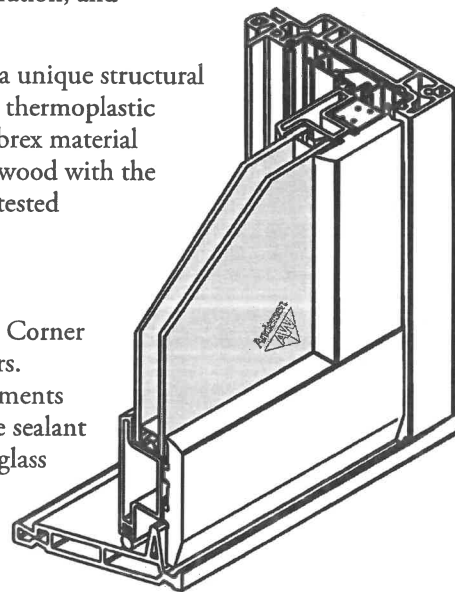
- **Frame** – Made of rigid Fibrex® material a unique structural composite of wood fibers and a special thermoplastic polymer. Developed by Andersen®, Fibrex material combines the strength and stability of wood with the low-maintenance features of our time-tested Perma-Shield® cladding.

- **Sash** – Constructed of Fibrex material. Corner keys provide durable, watertight corners. The mortise and tenon joinery complements the frame. A high-performance silicone sealant provides a watertight seal between the glass and sash.

- **Glazing** – High-Performance™ LoE4®* glass with an inert, energy-efficient gas, is standard for every window. See Options on page 3-6 for other glass choices.

*LoE4 is a registered trademark of Cardinal IG Company.

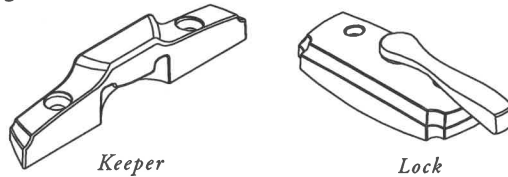
- **Glass spacer** – The patented low-conductivity spacer is made of stainless steel and resists heat transfer four to five times better than aluminum spacers used by many other manufacturers.



STANDARD FEATURES, cont.

DOUBLE-HUNG WINDOW

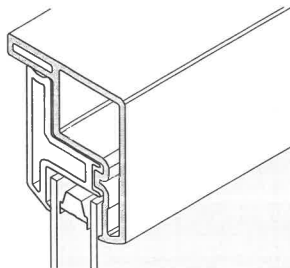
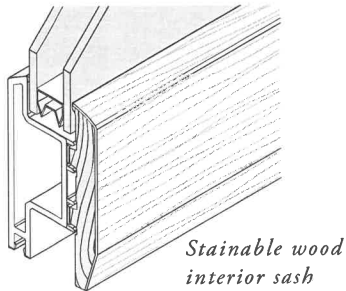
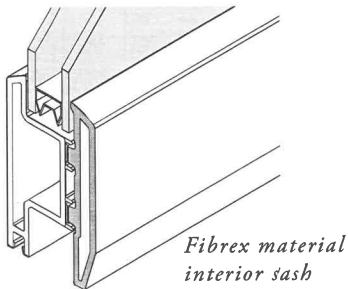
- **Removable protective film** – Packaging features a clear protective film that is factory applied to both the interior and exterior glass surfaces to help protect the glass from shipping and installation damage.
- **Weatherstrip** – A dual system of a foam-filled bulb applied to the sash frame and a constant-force low-friction weatherstrip applied to the frame provide a tight seal.



- **Sash Lock and Keeper** – The zinc die cast dual cam-type sash lock, mounted at center of the meeting rail on the interior sash, engages easily into the keeper mounted on the center of the meeting rail on the exterior sash. The Double-hung Window Component Color Combination Chart on page 3-11 shows the hardware color for each window color combination.

OPTIONS

DOUBLE-HUNG WINDOW



The following options are available for all Renewal by Andersen® double-hung windows:

- **Dual-Colors and Stainable Wood Interior Veneers** – Dual-color windows are available that have different interior and exterior colors. Stainable wood interior veneers are also available in oak, maple, and engineered pine. The Double-Hung Window Component Color Combination Chart on page 3-11 shows available color combinations and the default color of individual components for these combinations. Alternative component (e.g., insect screens, grilles, hardware, side jams) color combinations are available upon request.

Painting and staining guidelines for Fibrex® material and stainable wood interiors are available in this manual, the *Product Installation Manual* and in the *Care and Maintenance Guide*.

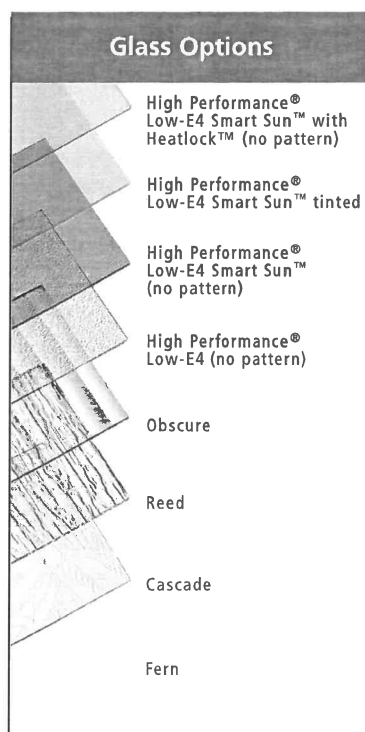
- **Traditional Square Check Rail** – Optional square-shaped check rail available in oak, maple, engineered pine veneer and Fibrex material interior finishes offers a classic flat surface appearance. These classic lines create the old world look, using the advanced technology of today. This option can be used with any other double-hung lock components or grille accessories.
- **Rounded Contemporary Check Rail** – Original rounded contemporary check rail is still available (as an option) in same color and wood species.
- **TruScene® Insect Screen** – Micro-fine stainless steel mesh (25 x 25 per inch mesh) that provides over 50% more clarity than standard Andersen insect screens.

Traditional Fibrex Material
Square Check Rail

OPTIONS, cont.

DOUBLE-HUNG WINDOW

Double-Hung Window	Full Insect Screen	All sash ratios	Restrictions
			All heights available for unit widths less than or equal to 50-1/4". All widths available for unit heights less than or equal to 48-5/8".
<p>NOTE: Equal Sash Ratio DB min/max chart shown here; screen dimensions apply to all sash ratios.</p>			
Double-Hung Window	Half Insect Screen	All sash ratios	All sizes available, no restrictions



- **Aluminum Insect Screen Cloth** – Durable aluminum screen cloth (18 x 16 per inch mesh) in a glare-resistant charcoal gray.
- **Half Insect Screen** – A half insect screen is available that only covers the lower sash. The half screen does not impede the operation of the upper sash.
- **Decorative Glass Patterns** – Standard windows have no textured glass pattern whatsoever. Optional textured patterns are as follows:
 - Obscure (not available on double-hung windows taller than 86")
 - Reed
 - Cascade
 - Fern (not available on double-hung windows wider than 50-5/16")
- **Glass Coating** – High-Performance™ Low-E4™ coating is standard with all windows. Optional glazings are as follows:
 - Clear (no coating)
 - SmartSun™
 - High-Performance Low-E4 Smart Sun™ tinted coating
 - High Performance® Low-E4 Smart Sun™ with Heatlock™

* High Performance® Low-E4 Smart Sun™ with Heatlock™ not available with decorative glass patterns
- **Tempered Glass** – Tempering is an option for all available glass options. Untempered glass is standard.

OPTIONS, cont.

DOUBLE-HUNG WINDOW

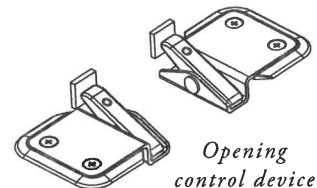
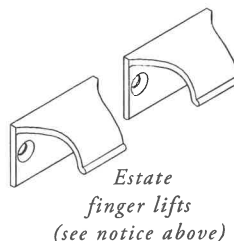
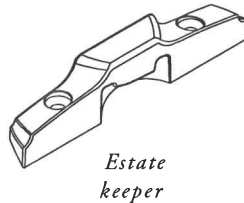
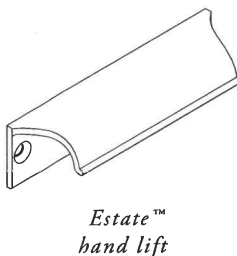
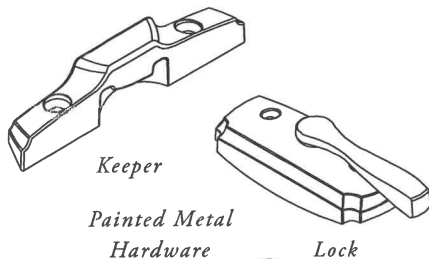
Unavailable Glass Patterns

Pattern	on windows wider than	or windows taller than
Reed*	56-7/8"	100-7/8"
Cascade*	56-7/8"	84-7/8"
Fern	56-7/8"	84-7/8"
Obscure	56-7/8"	84-7/8"

* Pattern is directional



When finger lifts are desired, order the window with **no** lifts. Finger lifts are then installed in the field after the window installation.



- **Glass Breather Tubes** – Breather tubes are available for glass intended for high-altitude installations. It is important to note that breather tubes will decrease the thermal performance of the unit. Refer to the Technical Data (Section 8) in this Spec and Tech Manual for altitude specifics.
- **Sash Lock** – A single zinc-cast metal lock is available in White, Stone and Canvas colors. Units narrower than 22-13/16" have a single lock. For units 22-13/16" wide or wider, a second lock is available as an option. For units wider than 45-9/16", a second lock is required.
- **Sash Lift** – One or two sash lifts may be mounted to the bottom rail of the lower sash. Can be specified, available in White, Stone, or Canvas colors or Estate™ finishes.
- **Estate™ Finish Hardware** – Estate finish hardware is available for all operating windows and is available in high performance bright brass, antique brass, high performance satin nickel, distressed nickel, brushed chrome, polished chrome, distressed bronze, oil-rubbed bronze and dark bronze. Hardware in each of the finishes is electroplated and/or modified to obtain the desired look. The Estate hardware components for double-hung windows are listed below:
 - **Lock and Keeper** – The zinc cast, plated lock and keeper provide elegant Estate styling that beautifully complements not only the window, but matches any Estate hardware found on Andersen® patio doors.
 - **Hand Lift** – Similar to the standard lift, the Estate hand lift provides an easy gripping surface with which to operate the window.
 - **Finger Lifts** – These smaller, more traditional looking lifts provide a different aesthetic option for a grasp to operate the window. These lifts are typically used in pairs.
 - **Opening Control Device** – Field-applied device restricts sash opening to 4 inches. This device will allow full sash opening when disengaged and will re-engage when sash is closed.

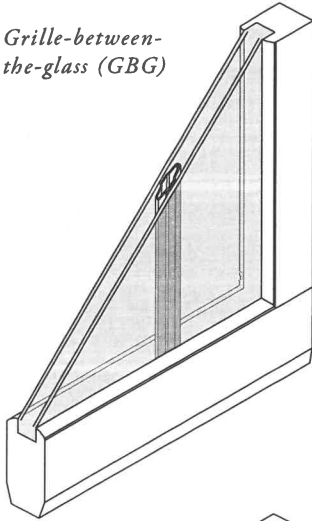
OPTIONS, cont.

DOUBLE-HUNG WINDOW

Available Grille Types

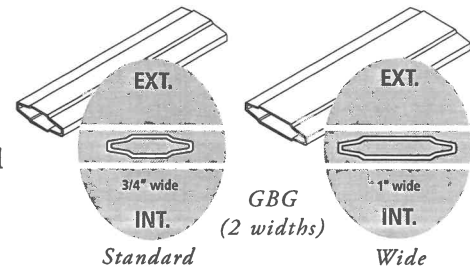
Three grille types are available. The interior and exterior sides of the grilles are color-coordinated with each side of the window frame. Consult the color combination charts in each window product section for detailed color information.

Grille-between-the-glass (GBG)

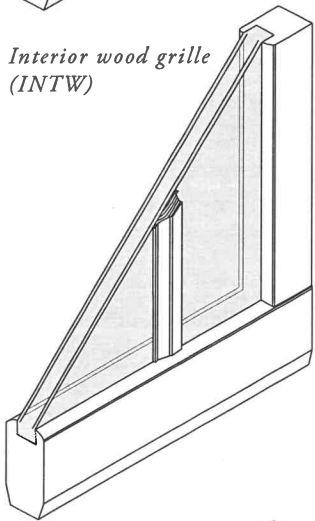


Grille-Between-the-Glass (GBG)

Sculpted aluminum grille members are manufactured between the glass panes, and are available in two widths. Enamel finish replicates interior and exterior face of window. If wood interior, interior facing surface will be gray.

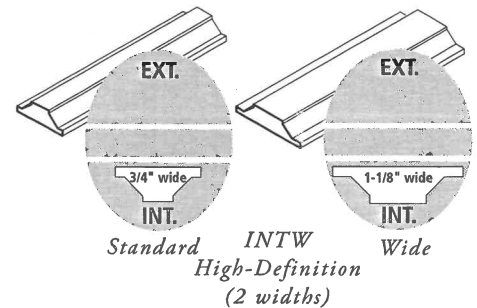


Interior wood grille (INTW)



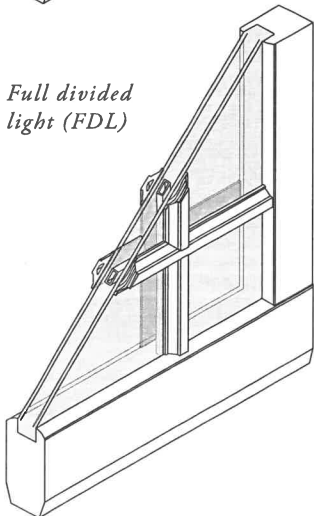
Interior Wood Grille (INTW)

With the option of hardwood maple or oak, these grilles snap into clips placed around the interior side of the sash and may be removed to clean the glass. These high-definition interior wood grilles are available in two different widths.



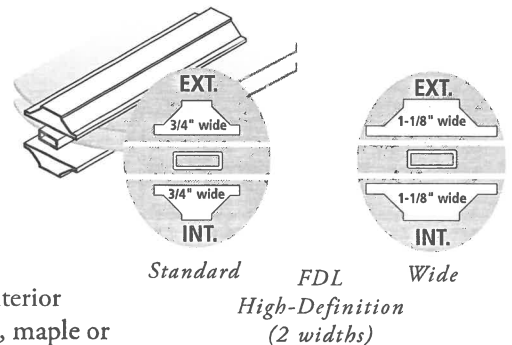
Interior wood grille clip

Full divided light (FDL)



Full Divided Light (FDL) Grille

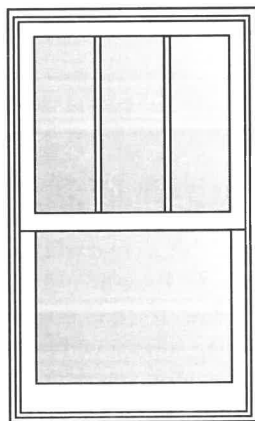
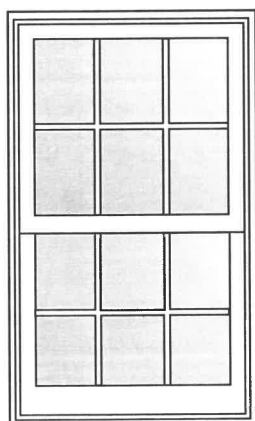
FDL grilles provide the classic look of a true divided light window. The high-definition exterior grille is made from Fibrex® material and is available in two different widths. Between the glass panes, an aluminum spacer stands slightly away from each pane to maintain thermal performance. The high-definition interior wood grille is available in hardwood, maple or oak and in two different widths, and may be permanently applied or removable.



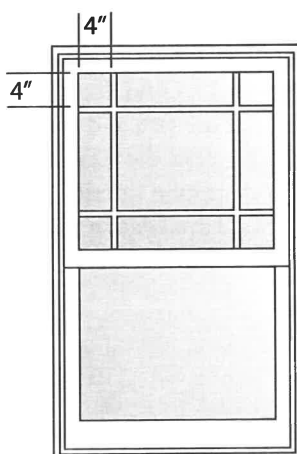
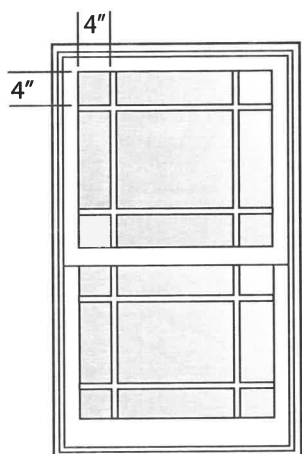
OPTIONS, cont.

DOUBLE-HUNG WINDOW

- Available Grille Patterns – Grille pattern options include colonial, prairie, and modified prairie.

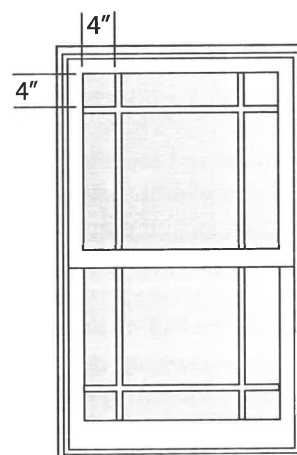
**COLONIAL**

Refer to colonial pattern grilles by pattern name and “grille lites wide by grille lites high” for each sash. For the examples shown, the left window would be “colonial pattern, 3 by 2, upper and lower sash”. For the example to the right, “colonial pattern, 3 by 1 on the upper sash, no grille on the lower sash”.

**PRAIRIE**

Regardless of sash size, all prairie grilles intersect to form 4" squares of visible glass in the corners of the sash. Prairie grilles are available on one or both sash.

The prairie grille pattern is not available on double-hung windows narrower than 20".

**MODIFIED PRAIRIE**

Regardless of sash size, all modified prairie grilles intersect to form 4" squares of visible glass. Modified prairie grilles are available for one or both sash.

The modified prairie grille pattern is not available on double-hung windows narrower than 20".

OPTIONS, cont.

DOUBLE-HUNG WINDOW

- **Exterior brick mould** – Fibrex® material brick mould is available in two configurations, picture frame and traditional style, as an exterior trim option for full-frame windows. Brick mould is available on insert frame windows in picture frame style only.
- **Overfit brick mould** – Fibrex material is available as an exterior trim option for insert flat sill only windows in picture frame style.

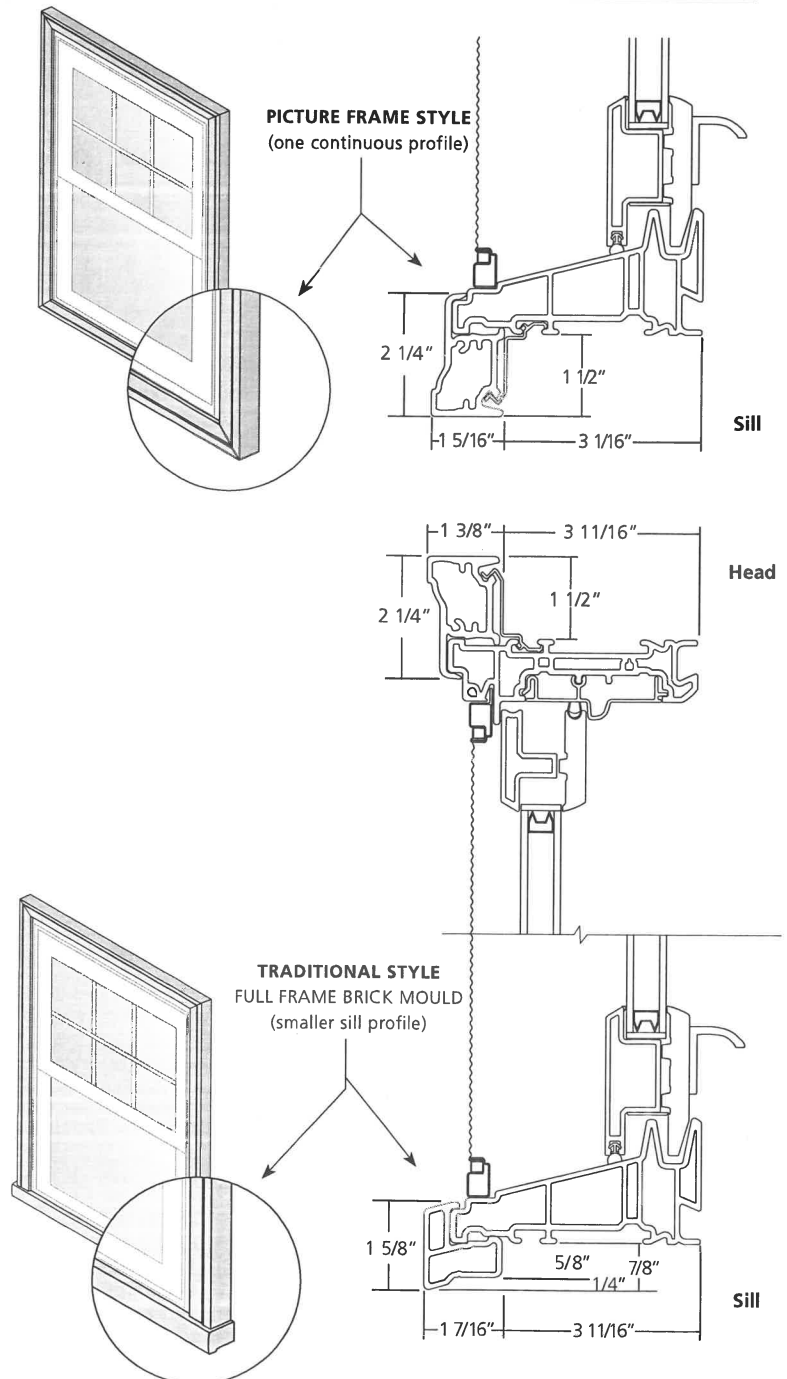
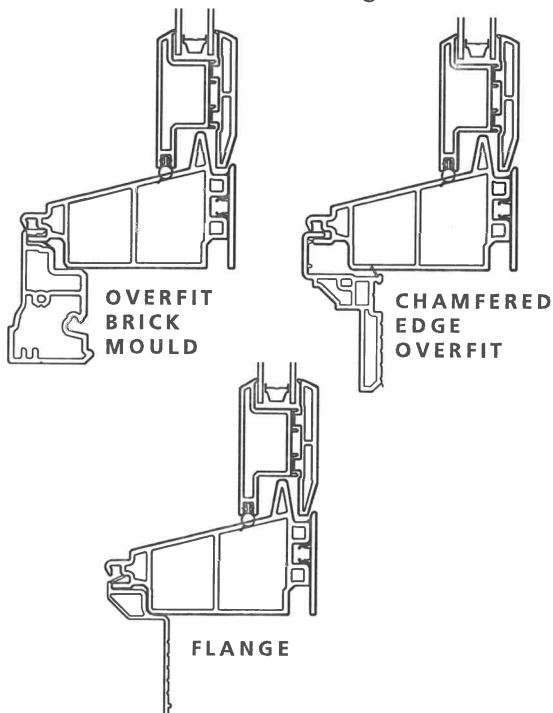
FULL-FRAME BRICK MOULD

Full-frame brick mould is available in two configurations:

- **Picture Frame Style** – The same brick mould profile is used all the way around the window.
- **Traditional Style** – A thinner sill profile that runs completely under the side brick mould pieces is used reminiscent of old, traditional window installations.

INSERT-FRAME BRICK MOULD

- **Overfit Brick Mould** – Fibrex material overfit brick mould is available as an exterior trim option for insert (flat sill only) window in picture frame style.
 - Overfit Flange
 - Chamfered Overfit Flange



WINDOW COMPONENT COLOR COMBINATION CHART

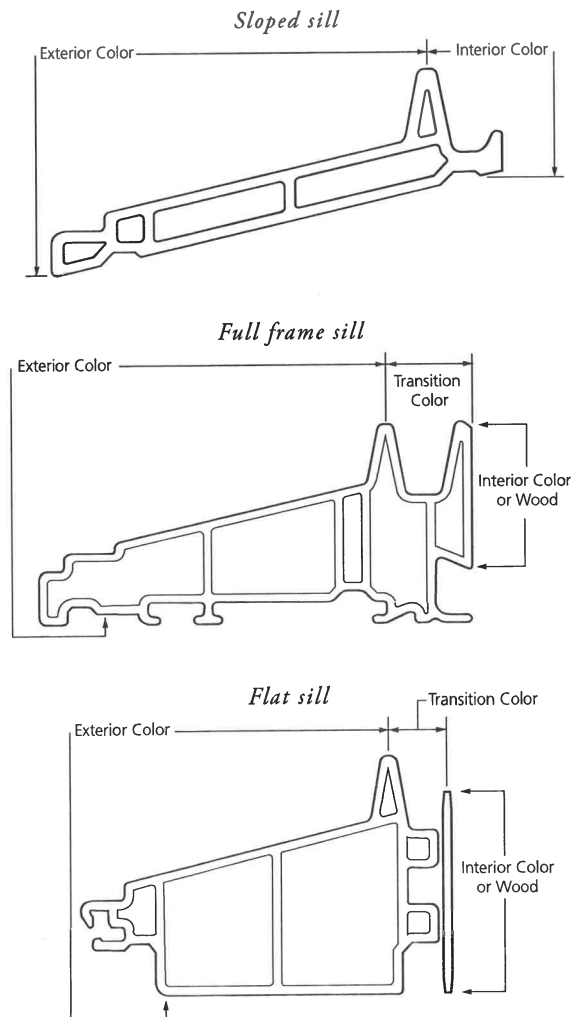
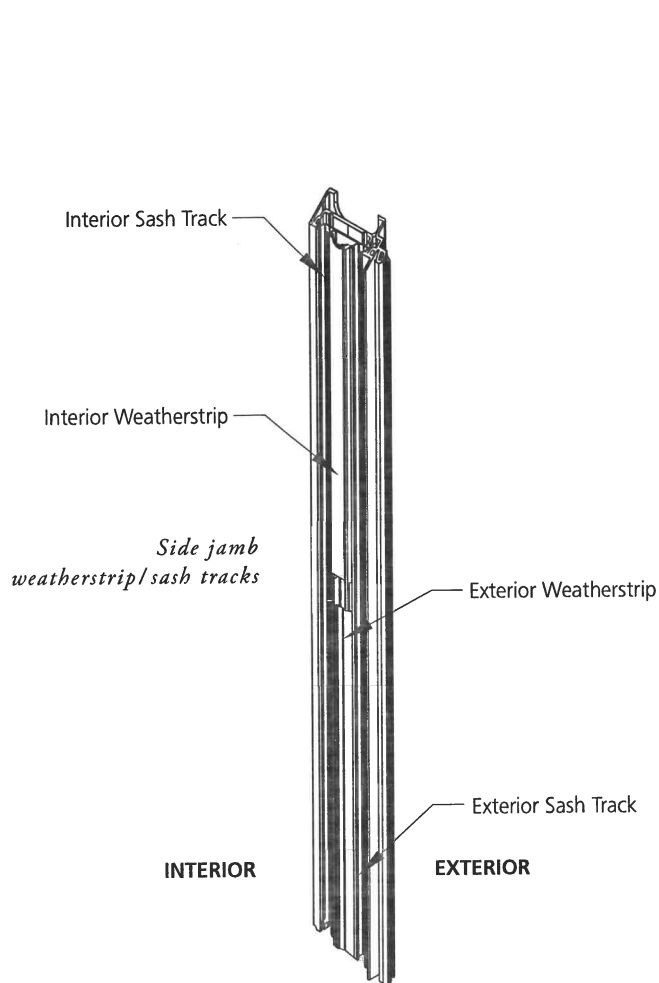
DOUBLE-HUNG WINDOW

	Window Color		Interior and Exterior Colors (Exterior/Transition/Interior)			Components		Grille Between Glass		Interior Wood & Full Divided Light		Headliner		Side Jamb Components	
	Exterior White Canvas Sandtone Terratone Dark Bronze	Interior White Canvas Sandtone Terratone Dark Bronze	Sloped Sill White/White Canvas/Canvas Sandtone/Sandtone Terratone/Terratone Dark Bronze/Terratone	Flat Sill White/White/White Canvas/Canvas/Canvas Sandtone/Sandtone/Sandtone Terratone/Terratone/Terratone Dark Bronze/Terratone/Dark Bronze	Full Frame Sill White/White/White Canvas/Canvas/Canvas Sandtone/Sandtone/Sandtone Terratone/Terratone/Terratone Dark Bronze/Terratone/Dark Bronze	Inset Screen Frame White Canvas Sandtone Terratone Dark Bronze	Hardware White Canvas Stone Dark Bronze	Exterior White Canvas Sandtone Terratone Dark Bronze	Interior White Canvas Sandtone Terratone Dark Bronze	Exterior White Canvas Sandtone Terratone Dark Bronze	Interior White Canvas Sandtone Terratone Dark Bronze	Exterior White Gray Gray Gray	Interior White Gray Gray Gray	Lower Exterior White/White White/White Gray/Gray Gray/Gray Gray/Gray	Upper Interior White/White White/White Gray/Gray Gray/Gray Gray/Gray
Single Color	Canvas	White	Canvas/White	Canvas/Canvas/White	Canvas/White/White	Canvas	White	Canvas	White	Canvas	White	White	White	White/White	White/White
	Sandtone	White	Sandtone/White	Sandtone/Sandtone/White	Sandtone/White/White	Sandtone	White	Sandtone	White	Sandtone	White	White	White	Gray/White	Gray/White
	Terratone	White	Terratone/White	Terratone/Terratone/White	Terratone/White/White	Terratone	White	Terratone	White	Terratone	White	White	White	Gray/White	Gray/White
	Cocoa Bean	White	Cocoa Bean/White	Cocoa Bean/Cocoa Bean/White	Cocoa Bean/White/White	Cocoa Bean	White	Cocoa Bean	White	Cocoa Bean	White	White	White	Gray/White	Gray/White
	Dark Bronze	White	Dark Bronze/White	Dark Bronze/Dark Bronze/White	Dark Bronze/White/White	Dark Bronze	White	Dark Bronze	White	Dark Bronze	White	White	White	Gray/White	Gray/White
	Forest Green	White	Forest Green/White	Forest Green/Forest Green/White	Forest Green/White/White	Forest Green	White	Forest Green	White	Forest Green	White	White	White	Gray/White	Gray/White
	Black	White	Black/White	Black/Black/White	Black/White/White	Black	White	Black	White	Black	White	White	White	Gray/White	Gray/White
	Red Rock	White	Red Rock/White	Red Rock/Red Rock/White	Red Rock/White/White	Red Rock	White	Red Rock	White	Red Rock	White	White	White	Gray/White	Gray/White
	White	Canvas	White/Canvas	White/White/Canvas	White/Canvas/Canvas	White	Canvas	White	Canvas	White	Canvas	White	White	Gray/White	Gray/White
	Sandtone	Canvas	Sandtone/Canvas	Sandtone/Sandtone/Canvas	Sandtone/Canvas/Canvas	Sandtone	Canvas	Sandtone	Canvas	Sandtone	Canvas	White	White	Gray/White	Gray/White
	Terratone	Canvas	Terratone/Canvas	Terratone/Terratone/Canvas	Terratone/Canvas/Canvas	Terratone	Canvas	Terratone	Canvas	Terratone	Canvas	White	White	Gray/White	Gray/White
Dual Color	Cocoa Bean	Canvas	Cocoa Bean/Canvas	Cocoa Bean/Cocoa Bean/Canvas	Cocoa Bean/Canvas/Canvas	Cocoa Bean	Canvas	Cocoa Bean	Canvas	Cocoa Bean	Canvas	White	White	Gray/White	Gray/White
	Dark Bronze	Canvas	Dark Bronze/Canvas	Dark Bronze/Dark Bronze/Canvas	Dark Bronze/Canvas/Canvas	Dark Bronze	Canvas	Dark Bronze	Canvas	Dark Bronze	Canvas	White	White	Gray/White	Gray/White
	Forest Green	Canvas	Forest Green/Canvas	Forest Green/Forest Green/Canvas	Forest Green/Canvas/Canvas	Forest Green	Canvas	Forest Green	Canvas	Forest Green	Canvas	White	White	Gray/White	Gray/White
	Black	Canvas	Black/Canvas	Black/Black/Canvas	Black/Canvas/Canvas	Black	Canvas	Black	Canvas	Black	Canvas	White	White	Gray/White	Gray/White
	Red Rock	Canvas	Red Rock/Canvas	Red Rock/Red Rock/Canvas	Red Rock/Canvas/Canvas	Red Rock	Canvas	Red Rock	Canvas	Red Rock	Canvas	White	White	Gray/White	Gray/White
	White	Wood*	White/White	White/White/White	White/White/White	White	Wood*	White	Wood*	White	Wood*	Gray	Wood	White/White	White/White
	Canvas	Wood*	Canvas/Canvas	Canvas/Canvas/Canvas	Canvas/Canvas/Canvas	Canvas	Wood*	Canvas	Wood*	Canvas	Wood*	Gray	Wood	Gray/White	Gray/White
	Sandtone	Wood*	Sandtone/Sandtone	Sandtone/Sandtone/Sandtone	Sandtone/Sandtone/Sandtone	Sandtone	Wood*	Sandtone	Wood*	Sandtone	Wood*	Gray	Wood	Gray/White	Gray/White
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	Cocoa Bean	Wood*	Cocoa Bean/Cocoa Bean	Cocoa Bean/Cocoa Bean/Cocoa Bean	Cocoa Bean/Cocoa Bean/Cocoa Bean	Cocoa Bean	Wood*	Cocoa Bean	Wood*	Cocoa Bean	Wood*	Gray	Wood	Gray/White	Gray/White
Stainable Wood Interiors	Dark Bronze	Wood*	Dark Bronze/Canvas	Dark Bronze/Canvas/Canvas	Dark Bronze/Canvas/Canvas	Dark Bronze	Wood*	Dark Bronze	Wood*	Dark Bronze	Wood*	Gray	Wood	Gray/White	Gray/White
	Forest Green	Wood*	Forest Green/Canvas	Forest Green/Canvas/Canvas	Forest Green/Canvas/Canvas	Forest Green	Wood*	Forest Green	Wood*	Forest Green	Wood*	Gray	Wood	Gray/White	Gray/White
	Black	Wood*	Black/Canvas	Black/Canvas/Canvas	Black/Canvas/Canvas	Black	Wood*	Black	Wood*	Black	Wood*	Gray	Wood	Gray/White	Gray/White
	Red Rock	Wood*	Red Rock/Canvas	Red Rock/Canvas/Canvas	Red Rock/Canvas/Canvas	Red Rock	Wood*	Red Rock	Wood*	Red Rock	Wood*	Gray	Wood	Gray/White	Gray/White
	White	Wood*	White/Canvas	White/Canvas/Canvas	White/Canvas/Canvas	White	Wood*	White	Wood*	White	Wood*	Gray	Wood	Gray/White	Gray/White
	Canvas	Wood*	Canvas/Canvas	Canvas/Canvas/Canvas	Canvas/Canvas/Canvas	Canvas	Wood*	Canvas	Wood*	Canvas	Wood*	Gray	Wood	Gray/White	Gray/White
	Sandtone	Wood*	Sandtone/Sandtone	Sandtone/Sandtone/Sandtone	Sandtone/Sandtone/Sandtone	Sandtone	Wood*	Sandtone	Wood*	Sandtone	Wood*	Gray	Wood	Gray/White	Gray/White
	Terratone	Wood*	Terratone/Terratone	Terratone/Terratone/Terratone	Terratone/Terratone/Terratone	Terratone	Wood*	Terratone	Wood*	Terratone	Wood*	Gray	Wood	Gray/White	Gray/White
	Cocoa Bean	Wood*	Cocoa Bean/Cocoa Bean	Cocoa Bean/Cocoa Bean/Cocoa Bean	Cocoa Bean/Cocoa Bean/Cocoa Bean	Cocoa Bean	Wood*	Cocoa Bean	Wood*	Cocoa Bean	Wood*	Gray	Wood	Gray/White	Gray/White
	Dark Bronze	Wood*	Dark Bronze/Canvas	Dark Bronze/Canvas/Canvas	Dark Bronze/Canvas/Canvas	Dark Bronze	Wood*	Dark Bronze	Wood*	Dark Bronze	Wood*	Gray	Wood	Gray/White	Gray/White

Alternative component and grille color combinations for each frame/sash color are available upon request

* Wood interiors available in: pine, maple and oak

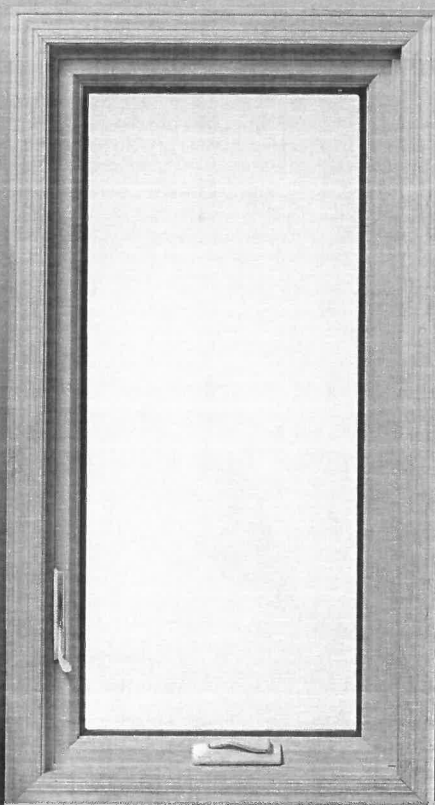
** Pine and maple interiors will use maple species interior grilles. Oak interiors will use oak species interior grilles



CASEMENT WINDOW

ADVANTAGES AND APPLICATIONS

The Renewal by Andersen® casement window consists of one or multiple sashes in a single frame. The sash can be hinged on the right or left side and pivots outward. Sash opening is controlled by a roto gear operator on the sill. A single sash lock lever activates multiple lock points to enhance security, and pulls the sash in tightly against the weatherstrip on the sash and frame. Insect screens are installed on the interior of the frame.



*Casement
Replacement Windows*

ADVANTAGES

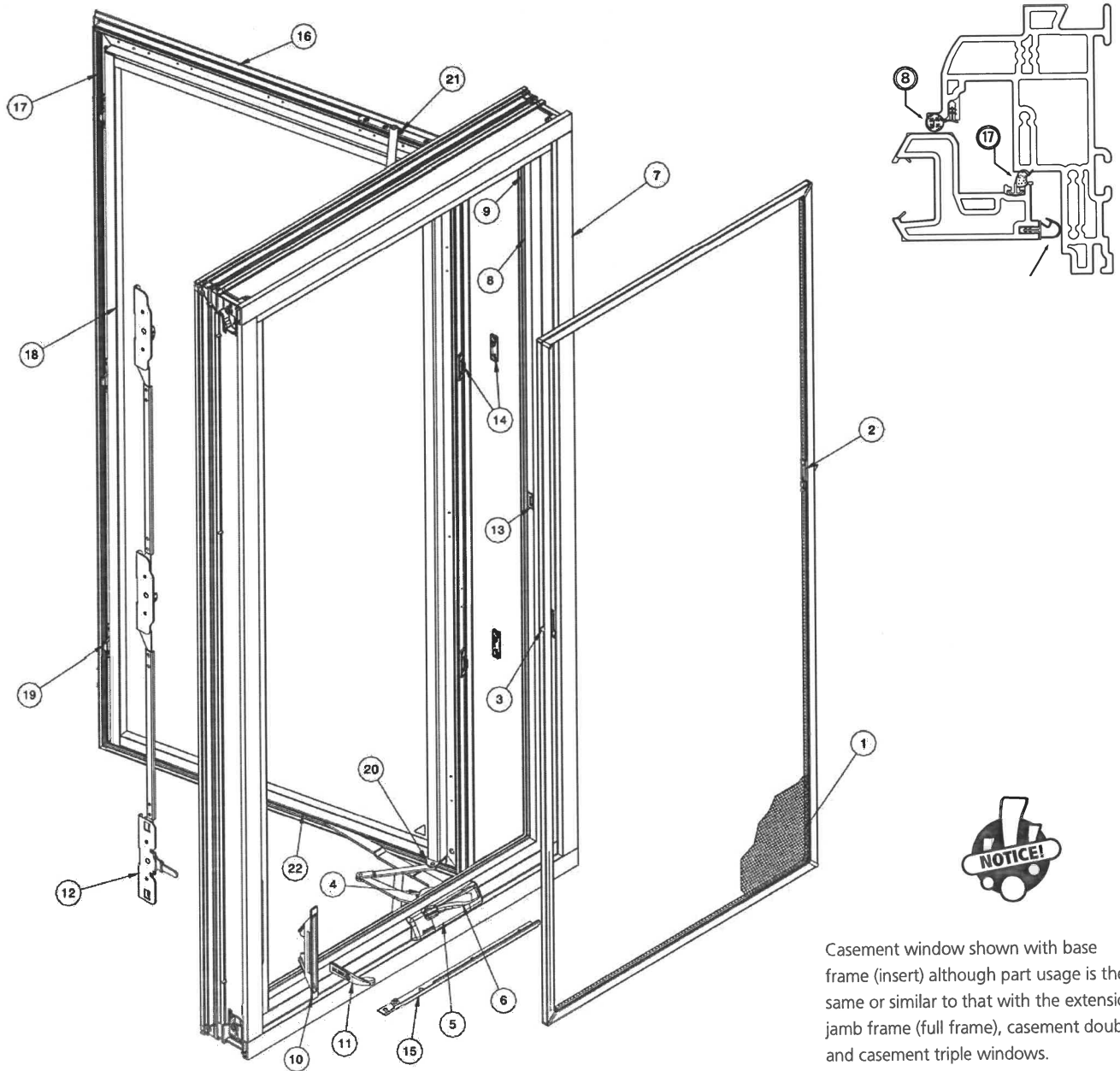
- Allows the most ventilation of any window type.
- Open sash can "catch" breezes from multiple directions.
- Multiple weatherstrips provide a weather tight seal when sash is closed and locked.
- Patented Fibrex® material is more rigid than vinyl, allowing more glass area.
- Fibrex material with low-maintenance capstock gives a rich, low-luster finish to sash and frame, similar to painted wood.
- Smooth radius surfaces on frame and sash are pleasing to the eye and easier to clean.
- Mortise and tenon appearance on the interior and exterior sash and frame corners give a traditional hand-crafted look.

APPLICATIONS

- Widely used to replace other styles of windows.
- Offers dramatic design accents when combined with fixed windows.
- Recommended for use over countertops and other wide obstructions because operation is controlled by turning a handle—an easier motion than lifting or sliding sash.
- Should not be used in areas where the projecting sash could obstruct outside walkways.
- Visually compatible with other Renewal by Andersen products.
- Corrosion-resistant casement hardware is available for use in harsh and corrosive environments such as heavy industrial or coastal areas.

EXPLODED VIEW

CASEMENT WINDOW



CASEMENT WINDOW COMPONENTS

- | | | |
|---|-------------------------------------|--|
| 1. Insect screen | 8. Frame weatherstrip | 16. Sash rain screen weatherstrip |
| 2. Universal insect screen latch retainer | 9. Hole plug | 17. Sash bulb weatherstrip |
| 3. Insect screen latch | 10. Bezel | 18. Casement sash |
| 4. Casement dual arm operator | 11. Lock handle | 19. Lock strike |
| 5. Operator cover | 12. Lock assembly | 20. Casement sash bracket (Corrosion-resistant upgrade option) |
| 6. Operator handle | 13. Insect screen grommet | 21. Hinge |
| 7. Frame | 14. Sash and frame snugger | 22. Operator track |
| | 15. Corrosion-resistant hinge track | |

STANDARD FEATURES

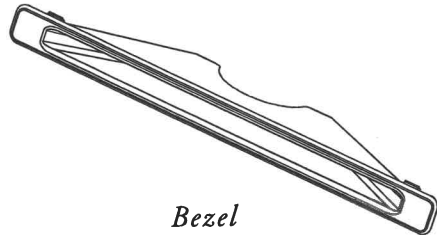
CASEMENT WINDOW

Described below are features that contribute to the casement window's low maintenance, energy efficiency, ease of operation, and pleasing appearance.

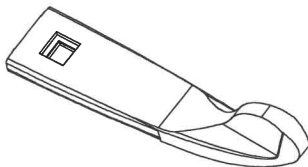
- **Frame** – Made of rigid Fibrex® material, a unique structural composite of wood fibers and a special thermoplastic polymer. Developed by Andersen®, Fibrex® material combines the strength and stability of wood with the low-maintenance features of vinyl.
- **Sash** – Corner keys provide durable, watertight corners. The mortise and tenon joinery complements the frame. A high-performance silicone sealant provides a watertight seal between glass and sash.
- **Glazing** – High-Performance™ Low-E4® glass with an inert, energy-efficient gas, is standard for every window. Glass is placed into sash before assembly for a strong, weather tight assembly. A high-performance silicone sealant provides a watertight seal between glass and sash. See options on page 1-6 for other glass choices.
- **Glass spacer** – The patented low-conductivity stainless steel spacer resists heat transfer four to five times better than aluminum spacers and is stronger than silicone or plastic spacers used by many other manufacturers.

STANDARD FEATURES -CONT.

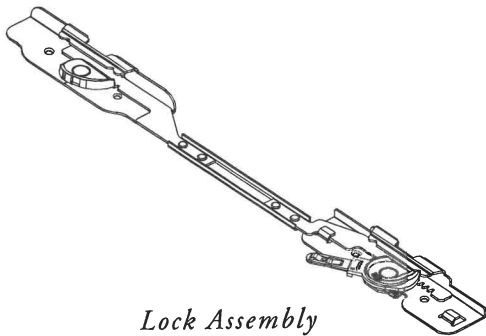
CASEMENT WINDOW

Glass exterior when exposed to sunlight*Bezel*

- **Removable protective film**— Packaging features a clear protective film that is factory applied to both the interior and exterior glass surfaces to help protect the glass from shipping and installation damage.

*Sash Lock Handle*

- **Weatherstrip** – A three-piece weatherstrip system of a foam-filled bulb applied to the frame, a foam-filled bulb applied to the sash and a flexible bulb weatherstrip applied to the sash provide a tight robust seal.

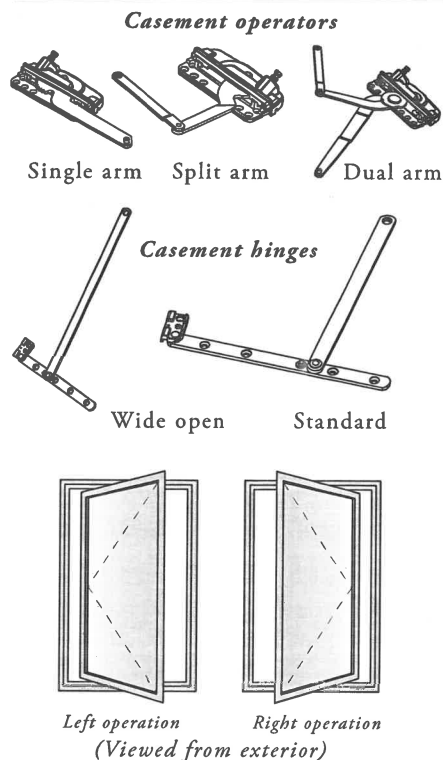
*Lock Assembly*

- **Casement Sash Lock Assembly and Lock Bar System** – One sash lock lever activates the lock assembly with up to three locking points per sash for greater security and better weather-tightness. The lock bezel is styled to fit and visually match the smooth radiused interior surface.

Window Height	Number of Locking Points
Less than 27"	1
27" to 53-15/16"	2
54" to 80"	3

STANDARD FEATURES, CONT.

CASEMENT WINDOW

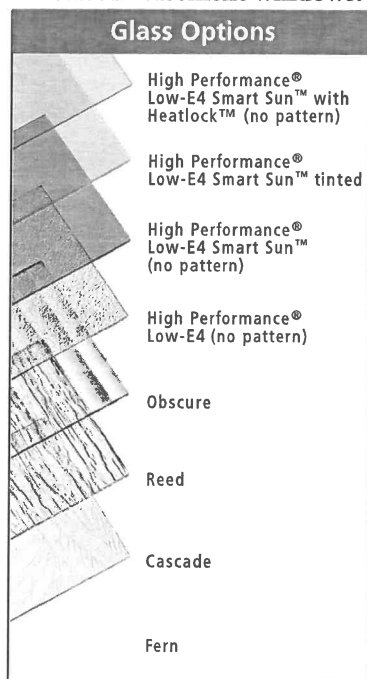


- **Casement Operator** – The operator uses a hardened steel worm and gear drive for smooth, easy control. The operator includes a high-pressure die-cast zinc operator housing, crank handle and knob. The operator is handed providing a symmetrical appearance for double and triple sash casement units. The casement operator is styled to fit and visually match the smooth curved interior surface. The standard folding handle offers an integrated look when nesting in the operator cover and allows for easy insect screen removal.
- **Casement/Awning Hinge** – The dual-pivot hinge provides a smooth operation, and a corrosion-resistant finish complements the frame color. For easy cleaning, sash moves toward center of the opening, allowing hand to reach both sides of the glass from the inside.
- **Determining RH/LH Operation** – Right-hand or left-hand operation (opening) is designated by the side on which the hinges are mounted *when viewed from the exterior*.
- **Insect Screen** – The standard insect screen is made with an aluminum frame and an easy-to-see-through fiberglass screen cloth (18x16 per inch mesh) in a glare-resistant charcoal gray finish. The frame is reinforced with a unique nylon corner spline to keep it from sagging and is secured to the window with wing blade fasteners in nylon housings. Aluminum and TruScene® insect screens are available for all sizes. Optional pine, oak and maple veneer are available for TruScene insect screens - see options on following page for details.
- **Interior/Exterior Color and Component Color** – Refer to the Casement Window Component Color Combination Chart on page 1-10 for standard (and optional) color combinations.

OPTIONS

CASEMENT WINDOW

The options shown here are available for all Renewal by Andersen® casement windows.



- **Dual-colors and Stainable Wood Interior Veneer** – Dual color windows are available that have different interior and exterior colors. Stainable wood interior veneers are also available (pine, maple and oak).

The Casement Window Component Color Combination Chart on page 1-10 shows these different combinations and the default color of individual components for these combinations. Alternative component (e.g., grille, insect screen, hardware) color combinations are available upon request.

- **Decorative Glass Patterns** – Standard windows have no glass pattern whatsoever. Optional patterns are as follows:
 - Obscure • Cascade
 - Reed • Fern (not available on 1:2:1 casement triple windows wider than 104-1/2")
- **Glass Coating** – High-Performance™ Low-E4® coating is standard with all windows. Optional glazings are as follows:
 - Clear (no coating) • High-Performance Low-E4 Sun tinted coating
 - SmartSun™ • High Performance® Low-E4 Smart Sun™ with Heatlock™

* High Performance® Low-E4 Smart Sun™ with Heatlock™ not available with decorative glass patterns
- **Tempered Glass** – Tempering is an option for all available glass options. Untempered glass is standard.
- **Glass Breather Tubes** – Breather tubes are available for glass intended for high-altitude installations. It is important to note that breather tubes will decrease the thermal performance of the unit. Refer to the Technical Data (Section 8) in this Spec and Tech Manual for altitude specifics.

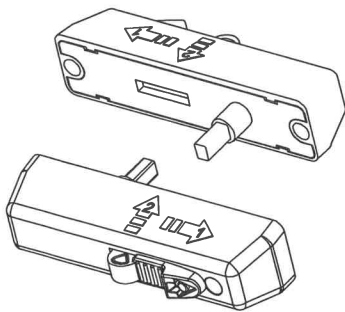
OPTIONS, CONT.

CASEMENT WINDOW

Unavailable Glass Patterns

Pattern	on windows wider than	or windows taller than
Reed*	56-7/8"	100-7/8"
Cascade*	56-7/8"	84-7/8"
Fern	56-7/8"	84-7/8"
Obscure	56-7/8"	84-7/8"

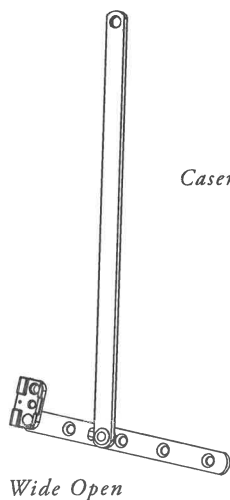
* Pattern is directional



Opening Control Device

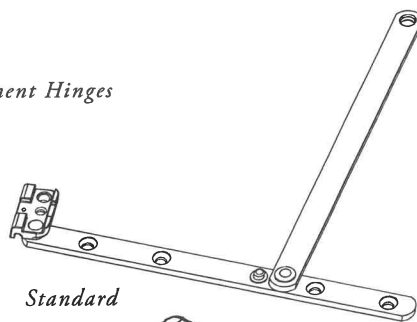
- **Corrosion-Resistant Hardware** – Made from 300 series stainless steel, this material is more resistant to corrosion due to harsh, acidic or corrosive environments such as heavy industrial or coastal areas.
- **TruScene® Insect Screen Frame**—Micro-fine stainless steel mesh (25 x 25 per inch mesh) that provides over 50% more clarity than standard Andersen® insect screens. TruScene Insect Screen is an option for all operable Renewal by Andersen® window styles.
- **Veneered TruScreen® Insect Screen Frame**—Available in pine, maple and oak.
- **Aluminum Insect Screen** – Identical to the standard insect screen but with a durable aluminum screen cloth (18 x 16 per inch mesh) in a glare-resistant charcoal gray finish.
- **Wide Open Hinge** – Special corner pivot hinges increase the window clear opening by approximately 4" (important for egress code requirements). Note: Washing the window from the interior is not possible with this hinge.
- **Estate™ Hardware** – Estate hardware is available for all operating windows and is available in high-performance bright brass, antique brass, high-performance satin nickel, distressed nickel, brushed chrome, polished chrome, distressed bronze, oil-rubbed bronze and dark bronze. The Estate hardware components for casement windows are pictured below.
- **Opening Control Device** – This optional field applied item voluntarily restricts opening to a maximum of 4 inches. Its release feature will still allow increased opening capability when needed and will automatically re-engage when the sash is closed. The Opening Control Device complies with ASTM F2090-08&-10.

The devices are available as either right or left hand operating sash in White and Stone color only.

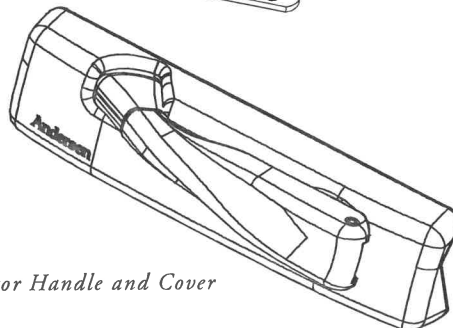


Wide Open

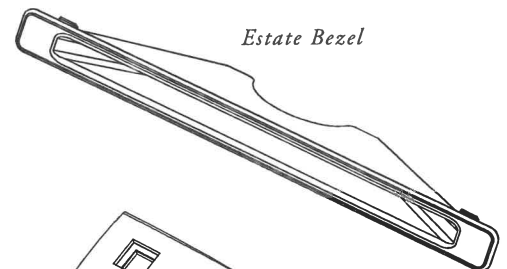
Casement Hinges



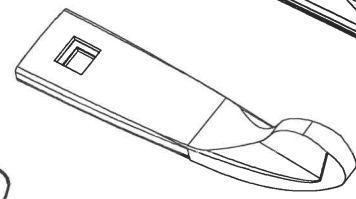
Standard



Estate Operator Handle and Cover



Estate Bezel



Estate Lock Handle

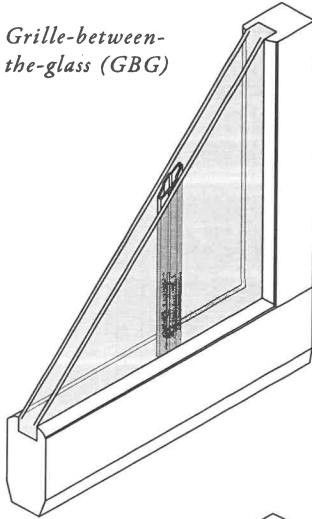
OPTIONS, cont.

CASEMENT WINDOW

Available Grille Types

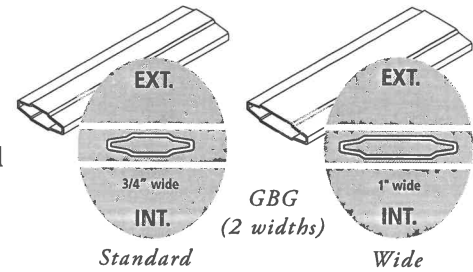
Three grille types are available. The interior and exterior sides of the grilles are color-coordinated with each side of the window frame. Consult the color combination charts in each window product section for detailed color information.

Grille-between-the-glass (GBG)

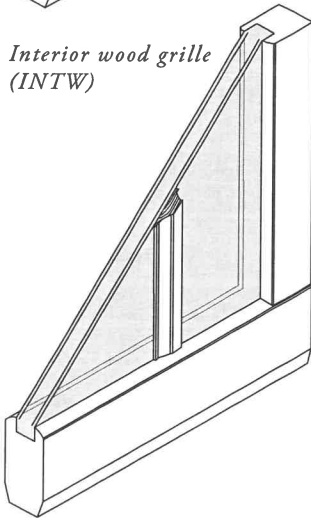


Grille-Between-the-Glass (GBG)

Sculpted aluminum grille members are manufactured between the glass panes, and are available in two widths. Enamel finish replicates interior and exterior face of window. If wood interior, interior facing surface will be gray.

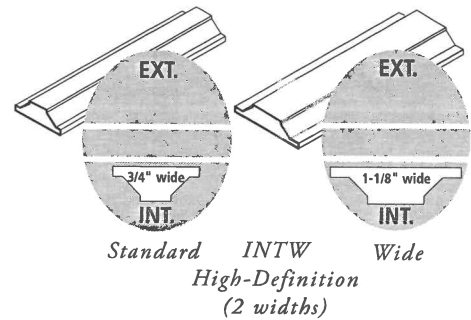


Interior wood grille (INTW)



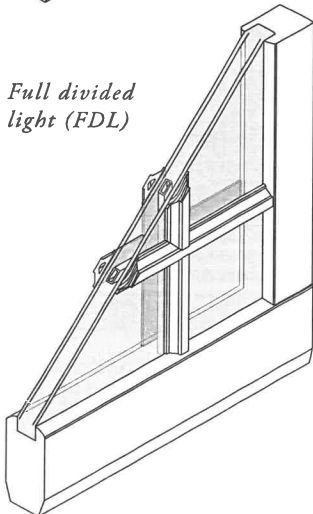
Interior Wood Grille (INTW)

With the option of hardwood maple or oak, these grilles snap into clips placed around the interior side of the sash and may be removed to clean the glass. These high-definition interior wood grilles are available in two different widths.



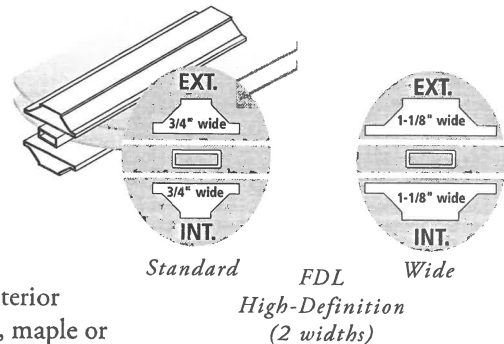
Interior wood grille clip

Full divided light (FDL)



Full Divided Light (FDL) Grille

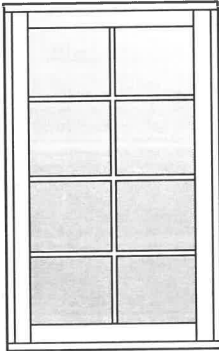
FDL grilles provide the classic look of a true divided light window. The high-definition exterior grille is made from Fibrex® material and is available in two different widths. Between the glass panes, an aluminum spacer stands slightly away from each pane to maintain thermal performance. The high-definition interior wood grille is available in hardwood, maple or oak and in two different widths, and may be permanently applied or removable.



GRILLE OPTIONS

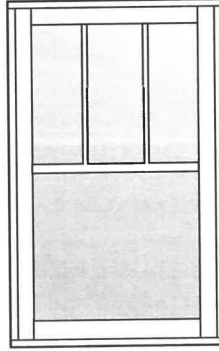
CASEMENT WINDOW

- **Available Grille Patterns** – Grille pattern options include colonial, farmhouse, prairie, and modified prairie (viewed from exterior).



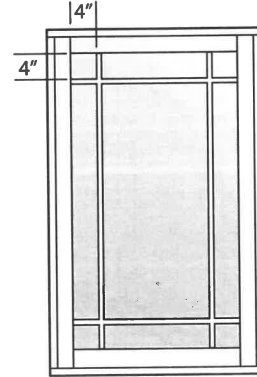
COLONIAL

Refer to colonial pattern grille by pattern name and grille lites wide by grille lites high for each sash. Example shown is "colonial pattern, 2 lites wide by 4 lites tall".



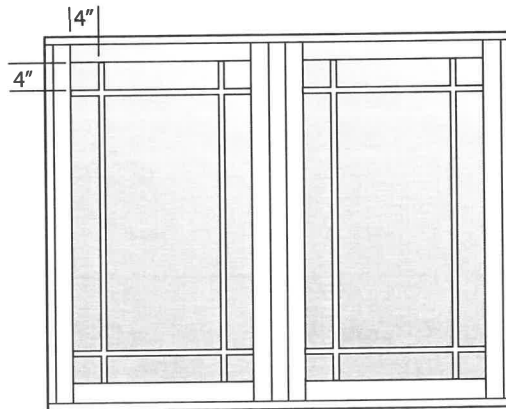
FARMHOUSE

Default pattern consists of two evenly spaced vertical bars (3/4") over a 1" wide center bar to simulate a double-hung window. Number of lites wide can be specified to more or less than 3 standard lites.



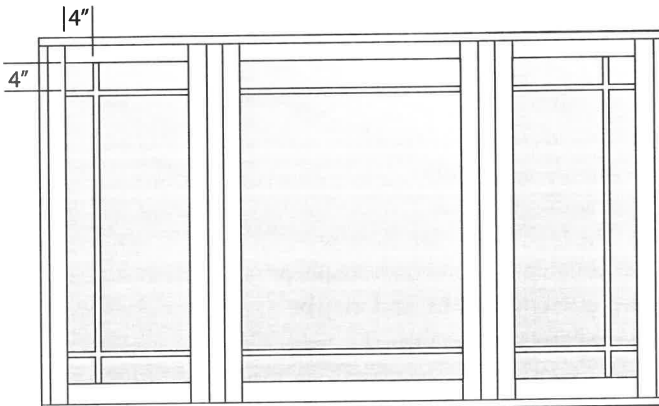
PRAIRIE

Refer to prairie grille by pattern name for each sash. Regardless of sash size, all prairie grilles intersect to form 4 inch squares of visible glass in the corners of the sash.



The prairie grille pattern is not available on the following windows:

	Narrower than	Shorter than
Casement	20-5/8"	20-5/8"
Casement-Double	40-1/4"	20-5/8"
Casement Triple (1:1:1)	59-15/16"	20-5/8"
Casement Triple (1:2:1)	78-5/16"	20-5/8"



MODIFIED PRAIRIE

Refer to modified prairie grille by pattern name for each sash. Regardless of sash size, all modified prairie grilles intersect to form 4 inch squares of visible glass in the outermost 4 corners of the window, rather than the sash.

Modified prairie grilles are not available on single casement, awning, and standard picture windows.

WINDOW COMPONENT COLOR COMBINATION CHART

CASEMENT WINDOW

	Window Color		Frame and Hardware		GBG		Grilles Full Divided Light	Interior Wood or Full Divided Light		
	Exterior	Interior	Insect Screen Frame	Hardware	Exterior	Interior	Exterior Facing	Interior Facing		
	White	White	White	White	White	White	White	White		
Single Color	Canvas	Canvas	Canvas	Canvas	Canvas	Canvas	Canvas	Canvas		
	Sandtone	Sandtone	Sandtone	Stone	Sandtone	Sandtone	Sandtone	Sandtone		
	Terratone	Terratone	Terratone	Stone	Terratone	Terratone	Terratone	Terratone		
	Dark Bronze	Dark Bronze	Dark Bronze	Dark Bronze	Dark Bronze	Dark Bronze	Dark Bronze	Dark Bronze		
Dual Color	Exterior	Interior	Insect Screen Frame	Hardware	Exterior	Interior	Exterior Facing	Interior Facing		
	Canvas	White	White	White	Canvas	White	Canvas	White		
	Sandtone	↓	↓	↓	Sandtone	↓	Sandtone	↓		
	Terratone	↓	↓	↓	Terratone	↓	Terratone	↓		
	Cocoa Bean	↓	↓	↓	Cocoa Bean	↓	Cocoa Bean	↓		
	Dark Bronze	↓	↓	↓	Dark Bronze	↓	Dark Bronze	↓		
	Forest Green	↓	↓	↓	Forest Green	↓	Forest Green	↓		
	Black	↓	↓	↓	Black	↓	Black	↓		
	Red Rock	↓	↓	↓	Red Rock	↓	Red Rock	↓		
	White	Canvas	Canvas	Canvas	White	Canvas	White	Canvas		
	Sandtone	↓	↓	↓	Sandtone	↓	Sandtone	↓		
	Terratone	↓	↓	↓	Terratone	↓	Terratone	↓		
	Cocoa Bean	↓	↓	↓	Cocoa Bean	↓	Cocoa Bean	↓		
	Dark Bronze	↓	↓	↓	Dark Bronze	↓	Dark Bronze	↓		
	Forest Green	↓	↓	↓	Forest Green	↓	Forest Green	↓		
	Black	↓	↓	↓	Black	↓	Black	↓		
	Red Rock	↓	↓	↓	Red Rock	↓	Red Rock	↓		
	Stainable Wood Interiors	Exterior	Interior	Low Maintenance Sash	Insect Screen Frame	Hardware	Exterior	Interior	Exterior	Interior
		White	Wood*	Canvas	Stone	Stone	White	Sandtone	White	**Unfinished wood
		Canvas	↓	↓	↓	↓	Canvas	↓	Canvas	↓
		Sandtone	↓	↓	↓	↓	Sandtone	↓	Sandtone	↓
Terratone		↓	↓	↓	↓	Terratone	↓	Terratone	↓	
Cocoa Bean		↓	↓	↓	↓	Cocoa Bean	↓	Cocoa Bean	↓	
Dark Bronze		↓	↓	↓	↓	Dark Bronze	↓	Dark Bronze	↓	
Forest Green		↓	↓	↓	↓	Forest Green	↓	Forest Green	↓	
Black		↓	↓	↓	↓	Black	↓	Black	↓	
Red Rock		↓	↓	↓	↓	Red Rock	↓	Red Rock	↓	

Alternative component and grille color combinations for each frame/sash color are available upon request

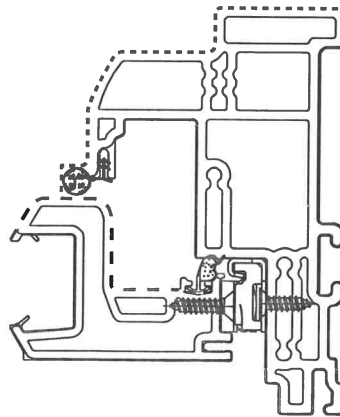
* Wood interiors available in: pine, maple and oak

** Pine and maple interiors will use maple species interior grilles. Oak interiors will use oak species interior grilles



Low maintenance sash option clarifications:

1. If window is offered as exterior color only (Example: Forest Green) then this portion of the sash will be canvas.
2. If window is offered as any other color, then interior of the sash will match exterior color of the sash.

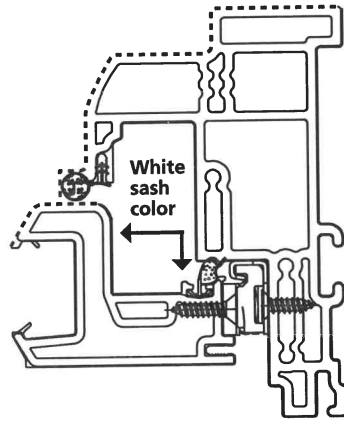


— Exterior Color
 - - - Interior Color
 ····· Visible Wood

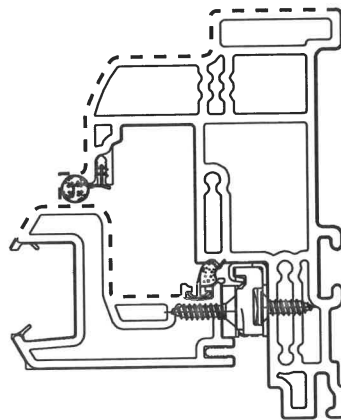
Fibrex® Material Sash and Frame Exterior/Wood Frame only Interior

WINDOW COLOR/WOOD COMBINATIONS

CASEMENT WINDOW



Fibrex® Material Exterior/Wood Interior



Dual Color

Interior

Gray

Exterior

Rain screen weatherstrip

White, Gray, Black

Window Color Exterior	Rain Screen Weatherstrip Color
White or Canvas	White
Sandtone or Terratone	Gray
Cocoa Bean, Dark Bronze, Forest Green, Black or Red Rock	Black

— Exterior Color
 - - - Interior Color
 ····· Visible Wood

3. 500 Market Street, Unit 12L - Recommended Approval

Background: The applicant is seeking approval for the replacement of (5) windows and (1) patio door.

Staff Comment: Recommended Approval

Stipulations:

1. _____
2. _____
3. _____

**LUHD-426**

Historic District Commission Work Session or Administrative Approval Application

Status: Active**Date Created:** Jan 20, 2022**Applicant**

Jaime Morin
rbabostonpermitting@andersencorp.com
30 Forbes Rd
Northborough, MA 01532
508-351-2277

Location

500 MARKET ST Unit 12L
Unit 12L
Portsmouth, NH 03801

Owner:

DEEGAN ALEXANDRA L
500 MARKET ST 12L PORTSMOUTH, NH 03801

Application Type**Please select application type from the drop down menu below**

Administrative Approval

Alternative Project Address

--

Project Information**Brief Description of Proposed Work**

Replacement of 5 windows and 1 patio door

Description of Proposed Work (Planning Staff)

--

Project Representatives**Relationship to Project**

Other

If you selected "Other", please state relationship to project.

Contractor

Full Name (First and Last)

Jaime Morin

Business Name (if applicable)

Renewal By Andersen

Mailing Address (Street)

30 Forbes Road

City/Town

Northborough

State

MA

Zip Code

01532

Phone

5083512277

Email Address

rbabostonpermitting@andersencorp.com

Acknowledgement**I certify that the information given is true and correct to the best of my knowledge.**



Agreement Document and Payment Terms

DBA: RENEWAL BY ANDERSEN OF BOSTON

Legal Name: Renewal by Andersen LLC

HIC# 170810

30 Forbes Road | Northborough, MA 01532

Phone: (508) 351-2200 | Fax: (508) 986-7072 | rbaboston@gmail.com

Alexandra Deegan

500 Market St. Unit 12L

Portsmouth, NH 03801

H: (603)892-0965

Alexandra Deegan

10/11/21

BUYER(S) NAME

500 Market St. Unit 12L, Portsmouth, NH 03801

(603)892-0965

CONTRACT DATE

BUYER(S) STREET ADDRESS

adeegan@hotmail.com

PRIMARY NUMBER

SECONDARY NUMBER

PRIMARY EMAIL

SECONDARY EMAIL

Buyer(s) hereby jointly and severally agrees to purchase the products and/or services of Renewal by Andersen LLC d/b/a Renewal By Andersen of Boston ("Contractor"), in accordance with the terms and conditions described in this Agreement Document and Payment Terms, any documents listed in the Table of Contents, and any other document attached to this Agreement Document, the terms of which are all agreed to by the parties and incorporated herein by reference (collectively, this "Agreement"). Buyer(s) hereby agrees to sign a completion certificate after Contractor has completed all work under this Agreement.

TOTAL JOB AMOUNT: \$24,750

By signing this Agreement, you acknowledge that the Balance Due, and the Amount Financed must be made by personal check, bank check, credit card, or cash.

DEPOSIT RECEIVED: \$8,249

BALANCE DUE: \$16,501

We schedule installations based on the date of the signed contract and secondarily on the date in which we complete the technical measurements. The installation date that we are providing at this time is only an estimate. We will communicate an official date and time at a later date. Rain and extreme weather are the most common causes for delay.

AMOUNT FINANCED: \$16,501

METHOD OF PAYMENT: Check
Financing

NOTES: 1/3 Down - check; Plan #6248; 1/3 Start; 1/3 Finish

Buyer(s) agrees and understands that this Agreement constitutes the entire understandings between the parties and that there are no verbal understandings changing or modifying any of the terms of this Agreement. No alterations to or deviations from this Agreement will be valid without the signed, written consent of both the Buyer(s) and Contractor. Buyer(s) hereby acknowledges that Buyer(s) 1) has read this Agreement, understands the terms of this Agreement, and has received a completed, signed, and dated copy of this Agreement, including the two attached Notices of Cancellation, on the date first written above and 2) was orally informed of Buyer's right to cancel this Agreement.

NOTICE TO BUYER: Do not sign this contract if blank. You are entitled to a copy of the contract at the time you sign.

YOU, THE BUYER, MAY CANCEL THIS TRANSACTION AT ANY TIME NOT LATER THAN MIDNIGHT OF 10/14/2021 OR THE THIRD BUSINESS DAY AFTER THE DATE OF THIS TRANSACTION, , WHICHEVER DATE IS LATER. SEE THE ATTACHED NOTICE OF CANCELLATION FORM FOR AN EXPLANATION OF THIS RIGHT.

SIGNATURE OF SALES PERSON

Michael Dechaine

PRINT NAME OF SALES PERSON

SIGNATURE

Alexandra Deegan

PRINT NAME

SIGNATURE

PRINT NAME



Itemized Order Receipt

DBA: RENEWAL BY ANDERSEN OF BOSTON

Legal Name: Renewal by Andersen LLC

HIC# 170810

30 Forbes Road | Northborough, MA 01532

Phone: (508) 351-2200 | Fax: (508) 986-7072 | rbaboston@gmail.com

Alexandra Deegan

500 Market St. Unit 12L

Portsmouth, NH 03801

H: (603)892-0965

ID#:	ROOM:	DETAILS:
101	Bath	Window , Double-Hung (DG), 1:1, Full Frame, EJ Frame, Traditional Checkrail, Exterior Terratone, Interior White, Glass , All Sash: High Performance SmartSun Glass, No Pattern, Hardware , White, Standard Color Recessed Hand Lift, Screen , TruScene, Full Screen, Grille Style , Interior Wood Only (INTW), Grille Pattern , All Sash: Colonial 3w x 2h, Misc , None
102	Kitchen	Window , Double-Hung (DG), 1:1, Full Frame, EJ Frame, Traditional Checkrail, Exterior Terratone, Interior White, Glass , All Sash: High Performance SmartSun Glass, No Pattern, Hardware , White, Standard Color Recessed Hand Lift, Screen , TruScene, Full Screen, Grille Style , Interior Wood Only (INTW), Grille Pattern , All Sash: Colonial 3w x 2h, Misc , None
103	Living	Patio Door , Gliding, 200 Series Narroline, 2 Panel, Active / Stationary, Exterior Terratone®, Interior Pine, Glass , All Sash: Tempered High Perf. SmartSun Glass, Hardware , Albany, Stone, Auxiliary Foot Lock Color Matched, Screen , Gliding, Full Screen, Grille Style , No Grille, Misc , Patio Door - Pre-Finished Patio Door Interior, Color: White
201	Bed	Window , Casement, Single, Right, Base Frame, Exterior Terratone, Interior White, Glass , All Sash: High Performance SmartSun Glass, No Pattern, Hardware , White, Screen , TruScene, Full Screen, Grille Style , Interior Wood Only (INTW), Grille Pattern , All Sash: Colonial 4w x 4h, Misc , Grilles - Simulated Check Rail, Per Sash - Wide Bar FDL to simulate the look of DG



Itemized Order Receipt

DBA: RENEWAL BY ANDERSEN OF BOSTON

Legal Name: Renewal by Andersen LLC

HIC# 170810

30 Forbes Road | Northborough, MA 01532

Phone: (508) 351-2200 | Fax: (508) 986-7072 | rbaboston@gmail.com

Alexandra Deegan

500 Market St. Unit 12L

Portsmouth, NH 03801

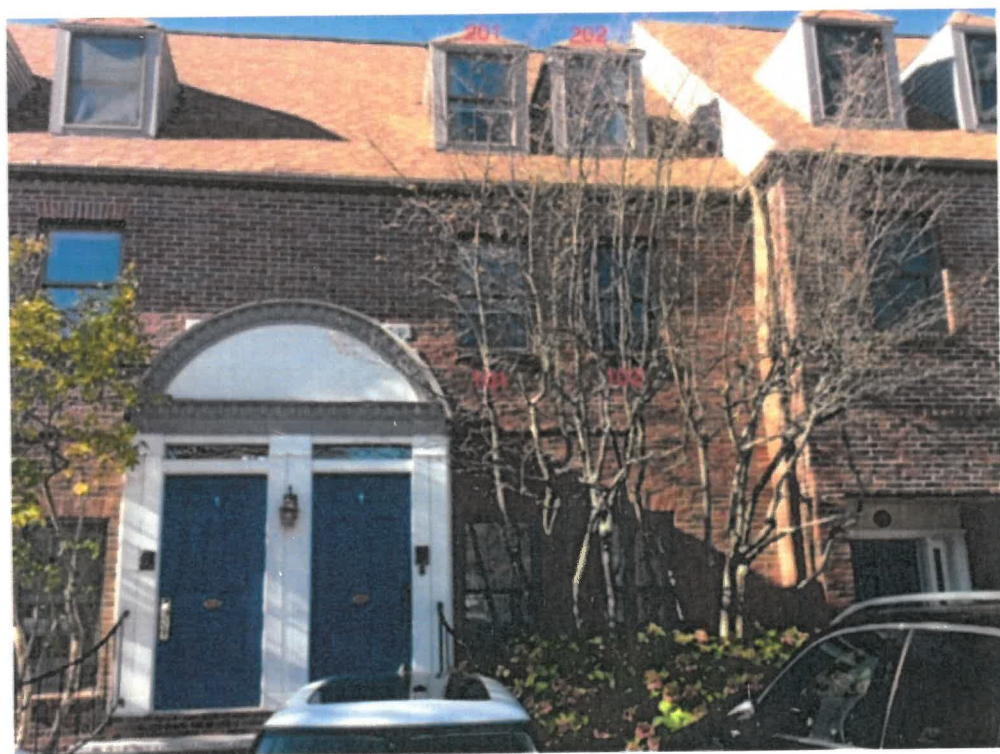
H: (603)892-0965

ID#:	ROOM:	DETAILS:
202	Bed	Window , Casement, Single, Right, Base Frame, Exterior Terratone, Interior White, Glass , All Sash: High Performance SmartSun Glass, No Pattern, Hardware , White, Screen , TruScene, Full Screen, Grille Style , Interior Wood Only (INTW), Grille Pattern , All Sash: Colonial 4w x 4h, Misc , Grilles - Simulated Check Rail, Per Sash - Wide Bar FDL to simulate the look of DG
203	Room 1	Window , Casement, Triple, 1:2:1, Left Vent / Stat / Right Vent, EJ Frame, Exterior Terratone, Interior White, Glass , All Sash: High Performance SmartSun Glass, No Pattern, Hardware , White, Screen , TruScene, Full Screen, Grille Style , No Grille, Misc , None
WINDOWS: 5		PATIO DOORS: 1
SPECIALTY: 0		MISC: 0
		TOTAL \$24,750



Renewal by Andersen is committed to our customers' safety by complying with the rules and lead-safe work practices specified by the EPA.





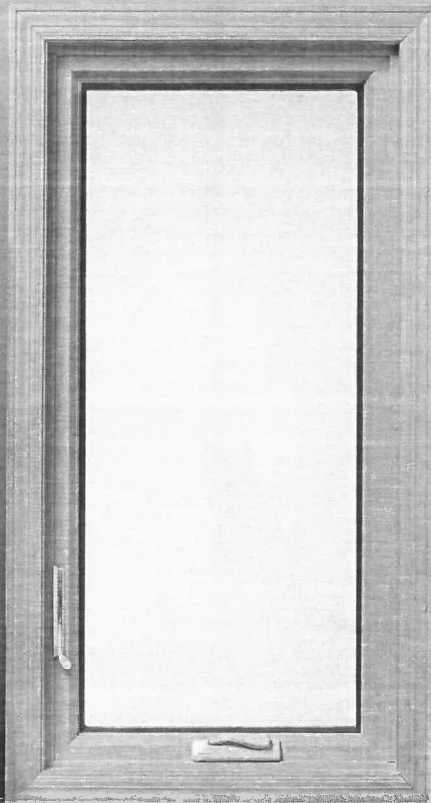


103

CASEMENT WINDOW

ADVANTAGES AND APPLICATIONS

The Renewal by Andersen® casement window consists of one or multiple sashes in a single frame. The sash can be hinged on the right or left side and pivots outward. Sash opening is controlled by a roto gear operator on the sill. A single sash lock lever activates multiple lock points to enhance security, and pulls the sash in tightly against the weatherstrip on the sash and frame. Insect screens are installed on the interior of the frame.



*Casement
Replacement Windows*

ADVANTAGES

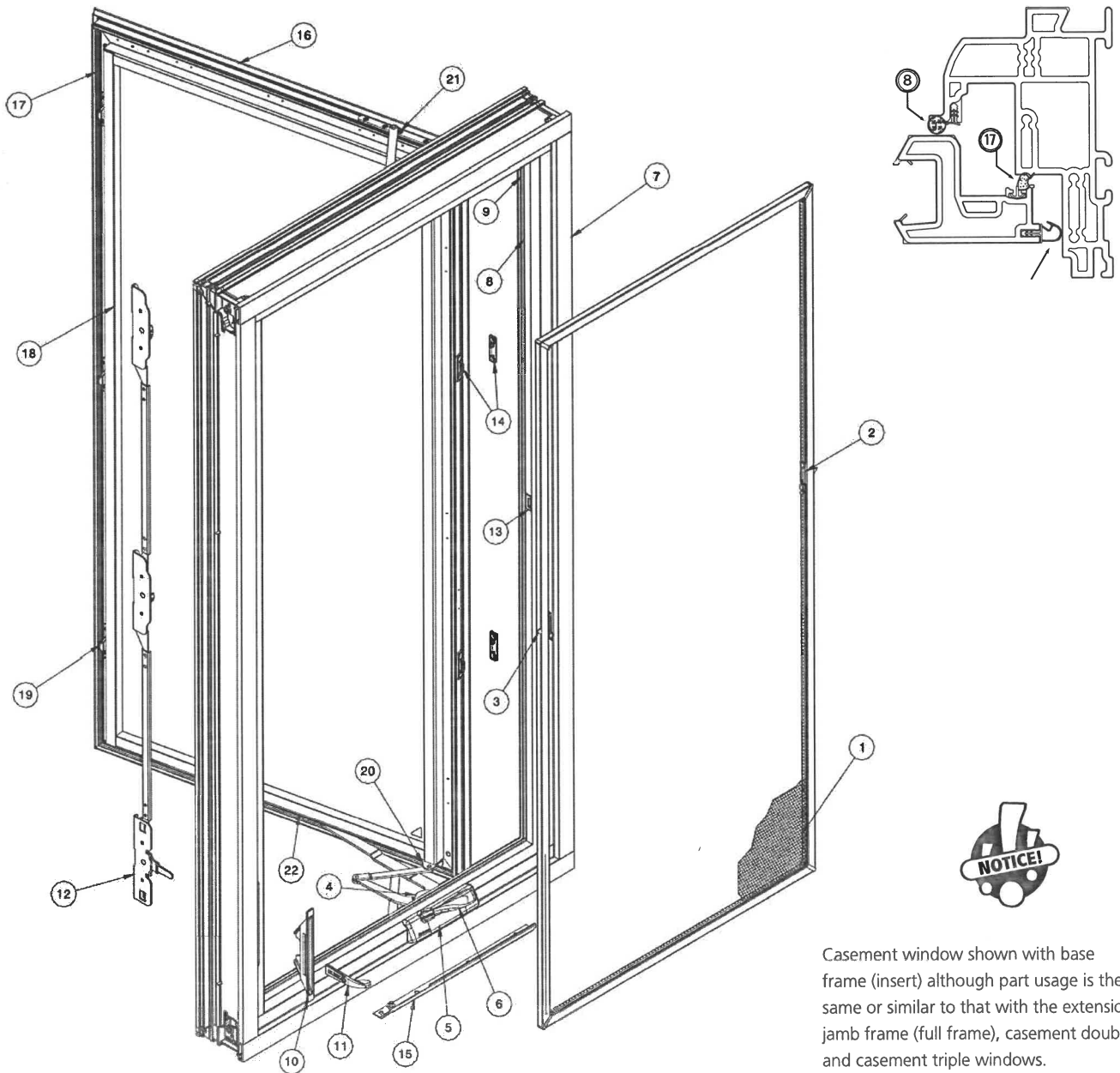
- Allows the most ventilation of any window type.
- Open sash can “catch” breezes from multiple directions.
- Multiple weatherstrips provide a weather tight seal when sash is closed and locked.
- Patented Fibrex® material is more rigid than vinyl, allowing more glass area.
- Fibrex material with low-maintenance capstock gives a rich, low-luster finish to sash and frame, similar to painted wood.
- Smooth radius surfaces on frame and sash are pleasing to the eye and easier to clean.
- Mortise and tenon appearance on the interior and exterior sash and frame corners give a traditional hand-crafted look.

APPLICATIONS

- Widely used to replace other styles of windows.
- Offers dramatic design accents when combined with fixed windows.
- Recommended for use over countertops and other wide obstructions because operation is controlled by turning a handle—an easier motion than lifting or sliding sash.
- Should not be used in areas where the projecting sash could obstruct outside walkways.
- Visually compatible with other Renewal by Andersen products.
- Corrosion-resistant casement hardware is available for use in harsh and corrosive environments such as heavy industrial or coastal areas.

EXPLODED VIEW

CASEMENT WINDOW



Casement window shown with base frame (insert) although part usage is the same or similar to that with the extension jamb frame (full frame), casement double, and casement triple windows.

CASEMENT WINDOW COMPONENTS

- | | | |
|---|-------------------------------------|---|
| 1. Insect screen | 8. Frame weatherstrip | 16. Sash rain screen weatherstrip |
| 2. Universal insect screen latch retainer | 9. Hole plug | 17. Sash bulb weatherstrip |
| 3. Insect screen latch | 10. Bezel | 18. Casement sash |
| 4. Casement dual arm operator | 11. Lock handle | 19. Lock strike |
| 5. Operator cover | 12. Lock assembly | 20. Casement sash bracket
(Corrosion-resistant upgrade option) |
| 6. Operator handle | 13. Insect screen grommet | 21. Hinge |
| 7. Frame | 14. Sash and frame snugger | 22. Operator track |
| | 15. Corrosion-resistant hinge track | |

STANDARD FEATURES

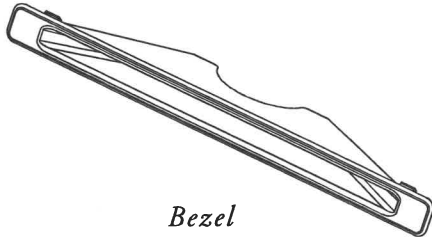
CASEMENT WINDOW

Described below are features that contribute to the casement window's low maintenance, energy efficiency, ease of operation, and pleasing appearance.

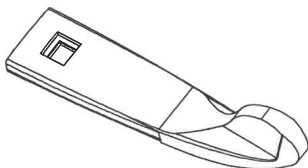
- **Frame** – Made of rigid Fibrex® material, a unique structural composite of wood fibers and a special thermoplastic polymer. Developed by Andersen®, Fibrex® material combines the strength and stability of wood with the low-maintenance features of vinyl.
- **Sash** – Corner keys provide durable, watertight corners. The mortise and tenon joinery complements the frame. A high-performance silicone sealant provides a watertight seal between glass and sash.
- **Glazing** – High-Performance™ Low-E4® glass with an inert, energy-efficient gas, is standard for every window. Glass is placed into sash before assembly for a strong, weather tight assembly. A high-performance silicone sealant provides a watertight seal between glass and sash. See options on page 1-6 for other glass choices.
- **Glass spacer** – The patented low-conductivity stainless steel spacer resists heat transfer four to five times better than aluminum spacers and is stronger than silicone or plastic spacers used by many other manufacturers.

STANDARD FEATURES CONT.

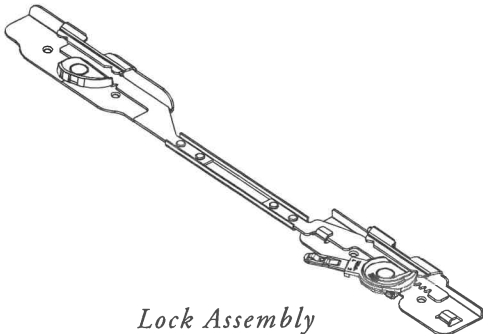
CASEMENT WINDOW

Glass exterior when exposed to sunlight*Bezel*

- **Removable protective film**— Packaging features a clear protective film that is factory applied to both the interior and exterior glass surfaces to help protect the glass from shipping and installation damage.

*Sash Lock Handle*

- **Weatherstrip** – A three-piece weatherstrip system of a foam-filled bulb applied to the frame, a foam-filled bulb applied to the sash and a flexible bulb weatherstrip applied to the sash provide a tight robust seal.

*Lock Assembly*

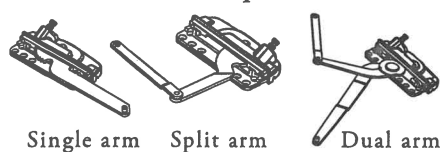
- **Casement Sash Lock Assembly and Lock Bar System** – One sash lock lever activates the lock assembly with up to three locking points per sash for greater security and better weather-tightness. The lock bezel is styled to fit and visually match the smooth radiused interior surface.

Window Height	Number of Locking Points
Less than 27"	1
27" to 53-15/16"	2
54" to 80"	3

STANDARD FEATURES, CONT.

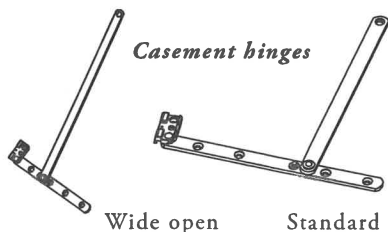
CASEMENT WINDOW

Casement operators

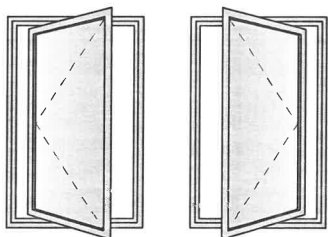


Single arm Split arm Dual arm

Casement hinges



Wide open Standard

Left operation Right operation
(Viewed from exterior)

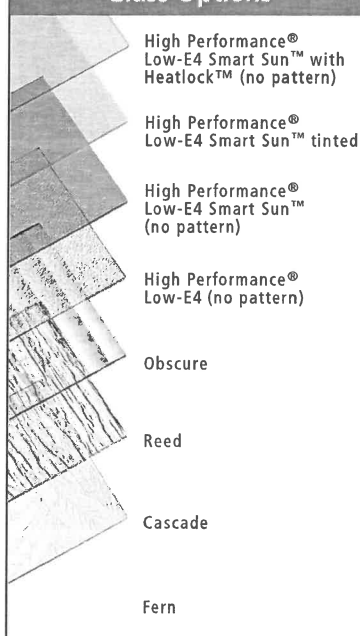
- **Casement Operator** – The operator uses a hardened steel worm and gear drive for smooth, easy control. The operator includes a high-pressure die-cast zinc operator housing, crank handle and knob. The operator is handed providing a symmetrical appearance for double and triple sash casement units. The casement operator is styled to fit and visually match the smooth curved interior surface. The standard folding handle offers an integrated look when nesting in the operator cover and allows for easy insect screen removal.
- **Casement/Awning Hinge** – The dual-pivot hinge provides a smooth operation, and a corrosion-resistant finish complements the frame color. For easy cleaning, sash moves toward center of the opening, allowing hand to reach both sides of the glass from the inside.
- **Determining RH/LH Operation** – Right-hand or left-hand operation (opening) is designated by the side on which the hinges are mounted *when viewed from the exterior*.
- **Insect Screen** – The standard insect screen is made with an aluminum frame and an easy-to-see-through fiberglass screen cloth (18x16 per inch mesh) in a glare-resistant charcoal gray finish. The frame is reinforced with a unique nylon corner spline to keep it from sagging and is secured to the window with wing blade fasteners in nylon housings. Aluminum and TruScene® insect screens are available for all sizes. Optional pine, oak and maple veneer are available for TruScene insect screens - see options on following page for details.
- **Interior/Exterior Color and Component Color** – Refer to the Casement Window Component Color Combination Chart on page 1-10 for standard (and optional) color combinations.

OPTIONS

CASEMENT WINDOW

The options shown here are available for all Renewal by Andersen® casement windows.

Glass Options



- **Dual-colors and Stainable Wood Interior Veneer** – Dual color windows are available that have different interior and exterior colors. Stainable wood interior veneers are also available (pine, maple and oak).

The Casement Window Component Color Combination Chart on page 1-10 shows these different combinations and the default color of individual components for these combinations. Alternative component (e.g., grille, insect screen, hardware) color combinations are available upon request.

- **Decorative Glass Patterns** – Standard windows have no glass pattern whatsoever. Optional patterns are as follows:
 - Obscure • Cascade
 - Reed • Fern (not available on 1:2:1 casement triple windows wider than 104-1/2")
 - **Glass Coating** – High-Performance™ Low-E4®coating is standard with all windows. Optional glazings are as follows:
 - Clear (no coating) • High-Performance Low-E4 Sun tinted coating
 - SmartSun™ • High Performance® Low-E4 Smart Sun™ with Heatlock™
- * High Performance® Low-E4 Smart Sun™ with Heatlock™ not available with decorative glass patterns
- **Tempered Glass** – Tempering is an option for all available glass options. Untempered glass is standard.
 - **Glass Breather Tubes** – Breather tubes are available for glass intended for high-altitude installations. It is important to note that breather tubes will decrease the thermal performance of the unit. Refer to the Technical Data (Section 8) in this Spec and Tech Manual for altitude specifics.

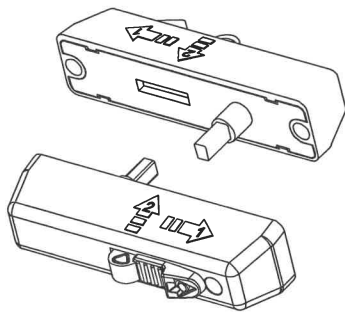
OPTIONS, CONT.

CASEMENT WINDOW

Unavailable Glass Patterns

Pattern	on windows wider than	or windows taller than
Reed*	56-7/8"	100-7/8"
Cascade*	56-7/8"	84-7/8"
Fern	56-7/8"	84-7/8"
Obscure	56-7/8"	84-7/8"

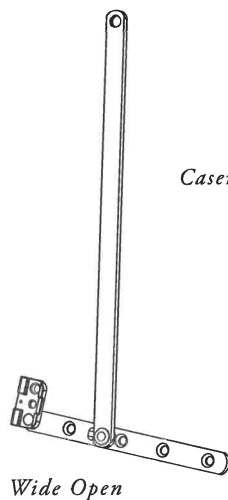
* Pattern is directional



Opening Control Device

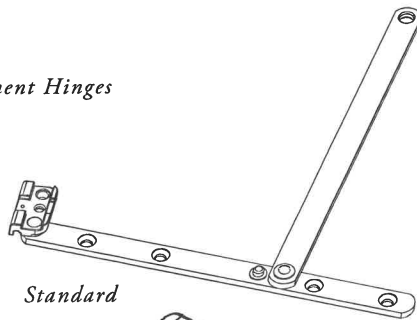
- **Corrosion-Resistant Hardware** – Made from 300 series stainless steel, this material is more resistant to corrosion due to harsh, acidic or corrosive environments such as heavy industrial or coastal areas.
- **TruScene® Insect Screen Frame**—Micro-fine stainless steel mesh (25 x 25 per inch mesh) that provides over 50% more clarity than standard Andersen® insect screens. TruScene Insect Screen is an option for all operable Renewal by Andersen® window styles.
- **Veneered TruScreen® Insect Screen Frame**—Available in pine, maple and oak.
- **Aluminum Insect Screen** – Identical to the standard insect screen but with a durable aluminum screen cloth (18 x 16 per inch mesh) in a glare-resistant charcoal gray finish.
- **Wide Open Hinge** – Special corner pivot hinges increase the window clear opening by approximately 4" (important for egress code requirements).
Note: Washing the window from the interior is not possible with this hinge.
- **Estate™ Hardware** – Estate hardware is available for all operating windows and is available in high-performance bright brass, antique brass, high-performance satin nickel, distressed nickel, brushed chrome, polished chrome, distressed bronze, oil-rubbed bronze and dark bronze. The Estate hardware components for casement windows are pictured below.
- **Opening Control Device** – This optional field applied item voluntarily restricts opening to a maximum of 4 inches. Its release feature will still allow increased opening capability when needed and will automatically re-engage when the sash is closed. The Opening Control Device complies with ASTM F2090-08&-10.

The devices are available as either right or left hand operating sash in White and Stone color only.

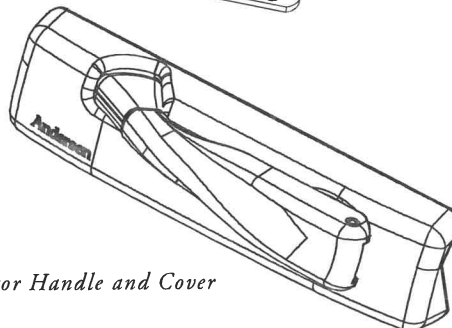


Wide Open

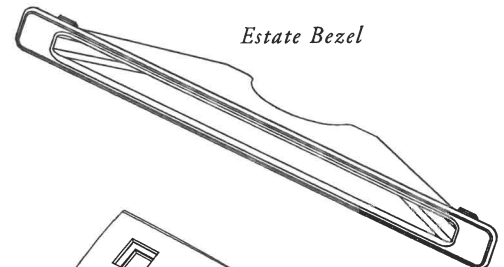
Casement Hinges



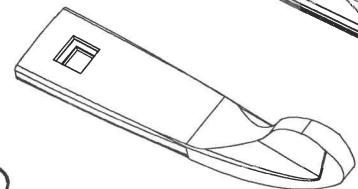
Standard



Estate Operator Handle and Cover



Estate Bezel



Estate Lock Handle

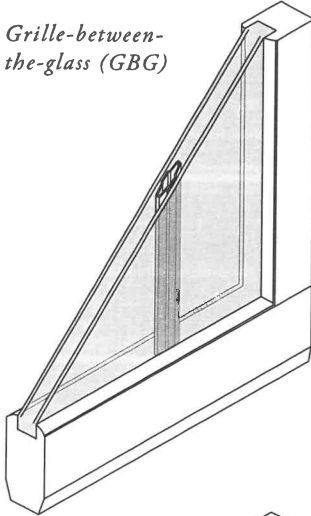
OPTIONS, cont.

CASEMENT WINDOW

Available Grille Types

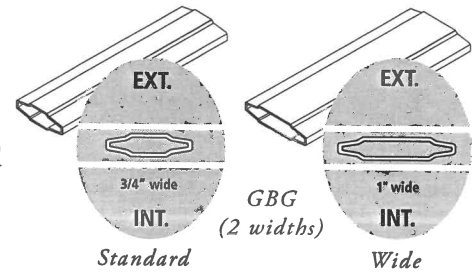
Three grille types are available. The interior and exterior sides of the grilles are color-coordinated with each side of the window frame. Consult the color combination charts in each window product section for detailed color information.

Grille-between-the-glass (GBG)

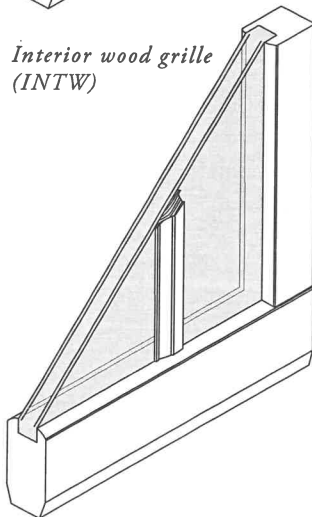


Grille-Between-the-Glass (GBG)

Sculpted aluminum grille members are manufactured between the glass panes, and are available in two widths. Enamel finish replicates interior and exterior face of window. If wood interior, interior facing surface will be gray.

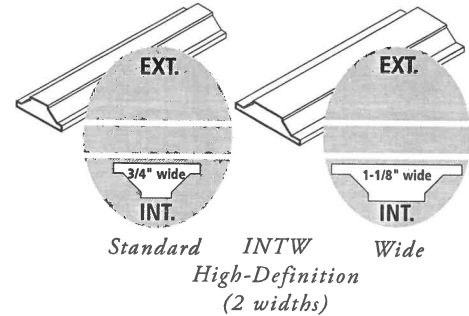


Interior wood grille (INTW)



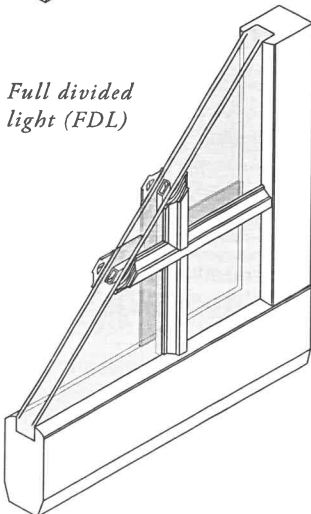
Interior Wood Grille (INTW)

With the option of hardwood maple or oak, these grilles snap into clips placed around the interior side of the sash and may be removed to clean the glass. These high-definition interior wood grilles are available in two different widths.



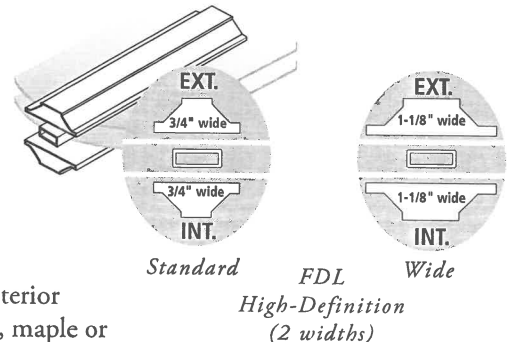
Interior wood grille clip

Full divided light (FDL)



Full Divided Light (FDL) Grille

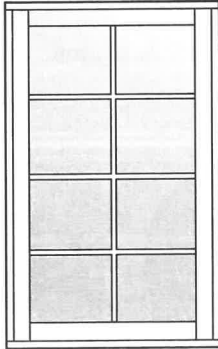
FDL grilles provide the classic look of a true divided light window. The high-definition exterior grille is made from Fibrex® material and is available in two different widths. Between the glass panes, an aluminum spacer stands slightly away from each pane to maintain thermal performance. The high-definition interior wood grille is available in hardwood, maple or oak and in two different widths, and may be permanently applied or removable.



GRILLE OPTIONS

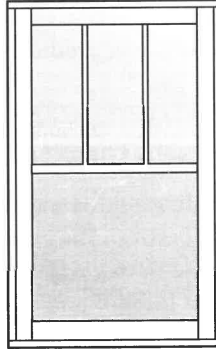
CASEMENT WINDOW

- **Available Grille Patterns** – Grille pattern options include colonial, farmhouse, prairie, and modified prairie (viewed from exterior).



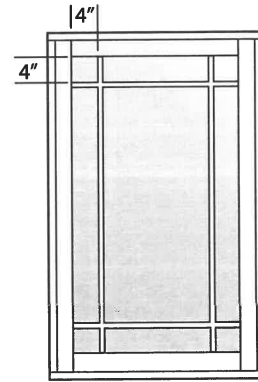
COLONIAL

Refer to colonial pattern grille by pattern name and grille lites wide by grille lites high for each sash. Example shown is “colonial pattern, 2 lites wide by 4 lites tall”.



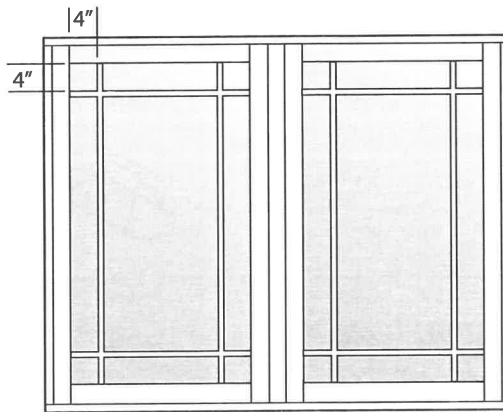
FARMHOUSE

Default pattern consists of two evenly spaced vertical bars (3/4") over a 1" wide center bar to simulate a double-hung window. Number of lites wide can be specified to more or less than 3 standard lites.



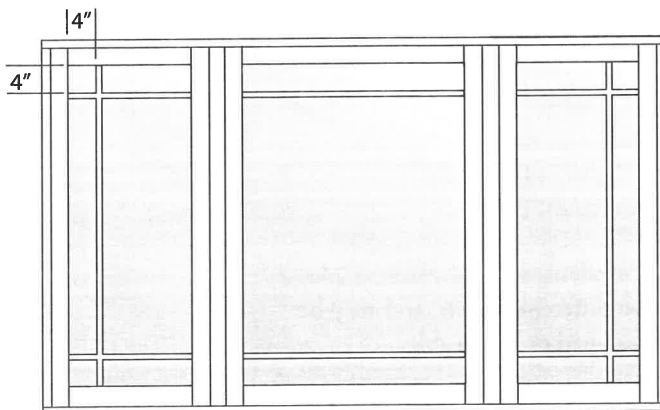
PRAIRIE

Refer to prairie grille by pattern name for each sash. Regardless of sash size, all prairie grilles intersect to form 4 inch squares of visible glass in the corners of the sash.



The prairie grille pattern is not available on the following windows:

	Narrower than	Shorter than
Casement	20-5/8"	20-5/8"
Casement-Double	40-1/4"	20-5/8"
Casement Triple (1:1:1)	59-15/16"	20-5/8"
Casement Triple (1:2:1)	78-5/16"	20-5/8"



MODIFIED PRAIRIE

Refer to modified prairie grille by pattern name for each sash. Regardless of sash size, all modified prairie grilles intersect to form 4 inch squares of visible glass in the outermost 4 corners of the window, rather than the sash.

Modified prairie grilles are not available on single casement, awning, and standard picture windows.

WINDOW COMPONENT COLOR COMBINATION CHART

CASEMENT WINDOW

	Window Color		Frame and Hardware		GBG		Grilles Full Divided Light	Interior Wood or Full Divided Light	
Single Color	Exterior	Interior	Insect Screen Frame	Hardware	Exterior	Interior	Exterior Facing	Interior Facing	
	White	White	White	White	White	White	White	White	
	Canvas	Canvas	Canvas	Canvas	Canvas	Canvas	Canvas	Canvas	
	Sandtone	Sandtone	Sandtone	Stone	Sandtone	Sandtone	Sandtone	Sandtone	
	Terratone	Terratone	Terratone	Stone	Terratone	Terratone	Terratone	Terratone	
	Dark Bronze	Dark Bronze	Dark Bronze	Dark Bronze	Dark Bronze	Dark Bronze	Dark Bronze	Dark Bronze	
Dual Color	Exterior	Interior	Insect Screen Frame	Hardware	Exterior	Interior	Exterior Facing	Interior Facing	
	Canvas	White	White	White	Canvas	White	Canvas	White	
	Sandtone	↓	↓	↓	Sandtone	↓	Sandtone	↓	
	Terratone	↓	↓	↓	Terratone	↓	Terratone	↓	
	Cocoa Bean	↓	↓	↓	Cocoa Bean	↓	Cocoa Bean	↓	
	Dark Bronze	↓	↓	↓	Dark Bronze	↓	Dark Bronze	↓	
	Forest Green	↓	↓	↓	Forest Green	↓	Forest Green	↓	
	Black	↓	↓	↓	Black	↓	Black	↓	
	Red Rock	↓	↓	↓	Red Rock	↓	Red Rock	↓	
	White	Canvas	Canvas	Canvas	White	Canvas	White	Canvas	
	Sandtone	↓	↓	↓	Sandtone	↓	Sandtone	↓	
	Terratone	↓	↓	↓	Terratone	↓	Terratone	↓	
	Cocoa Bean	↓	↓	↓	Cocoa Bean	↓	Cocoa Bean	↓	
	Dark Bronze	↓	↓	↓	Dark Bronze	↓	Dark Bronze	↓	
	Forest Green	↓	↓	↓	Forest Green	↓	Forest Green	↓	
	Black	↓	↓	↓	Black	↓	Black	↓	
Red Rock	↓	↓	↓	Red Rock	↓	Red Rock	↓		
Stainable Wood Interiors	Exterior	Interior	Low Maintenance Sash	Insect Screen Frame	Hardware	Exterior	Interior	Exterior	Interior
	White	Wood*	Canvas	Stone	Stone	White	Sandtone	White	**Unfinished wood
	Canvas	↓	↓	↓	↓	Canvas	↓	Canvas	↓
	Sandtone	↓	↓	↓	↓	Sandtone	↓	Sandtone	↓
	Terratone	↓	↓	↓	↓	Terratone	↓	Terratone	↓
	Cocoa Bean	↓	↓	↓	↓	Cocoa Bean	↓	Cocoa Bean	↓
	Dark Bronze	↓	↓	↓	↓	Dark Bronze	↓	Dark Bronze	↓
	Forest Green	↓	↓	↓	↓	Forest Green	↓	Forest Green	↓
	Black	↓	↓	↓	↓	Black	↓	Black	↓
	Red Rock	↓	↓	↓	↓	Red Rock	↓	Red Rock	↓

Alternative component and grille color combinations for each frame/sash color are available upon request

* Wood interiors available in: pine, maple and oak

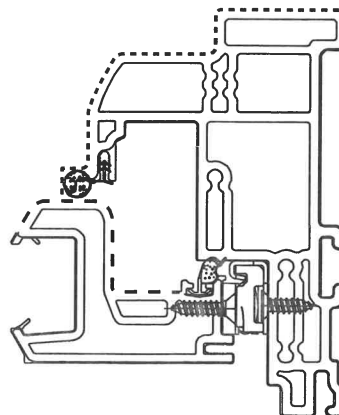
** Pine and maple interiors will use maple species interior grilles. Oak interiors will use oak species interior grilles



Low maintenance sash option clarifications:

1. If window is offered as exterior color only (Example: Forest Green) then this portion of the sash will be canvas.

2. If window is offered as any other color, then interior of the sash will match exterior color of the sash.

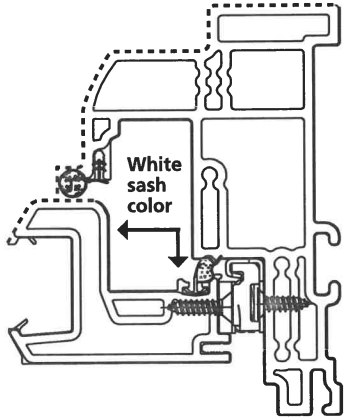


— Exterior Color
- - - Interior Color
· · · · · Visible Wood

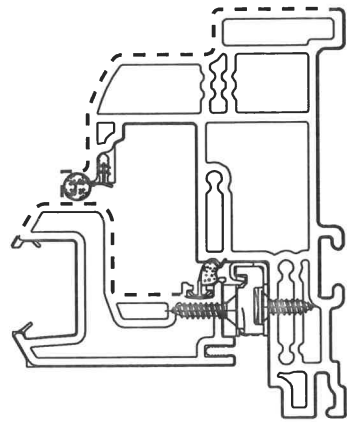
Fibrex® Material Sash and Frame Exterior/Wood Frame only Interior

WINDOW COLOR/WOOD COMBINATIONS

CASEMENT WINDOW



Fibrex® Material Exterior/Wood Interior



Dual Color

Interior

Gray

Exterior

Rain screen
weatherstrip

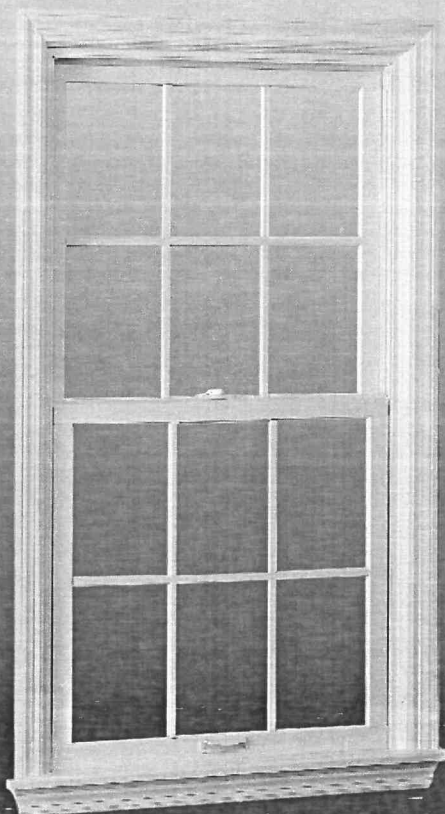
White, Gray, Black

Window Color Exterior	Rain Screen Weatherstrip Color
White or Canvas	White
Sandtone or Terratone	Gray
Cocoa Bean, Dark Bronze, Forest Green, Black or Red Rock	Black

———— Exterior Color
- - - - Interior Color
- - - - Visible Wood

DOUBLE-HUNG WINDOW**ADVANTAGES AND APPLICATIONS**

A double-hung window consists of two vertically sliding sash in a single frame. Both sash are counterbalanced by a spring-powered block-and-tackle balance mounted on the side of each sash. Tilt latches for each sash allow inward tilting for easy cleaning. Upper and lower sash are securely closed by use of a cam-type sash lock. An insect screen is installed into the outside track.

**Renewal
by Andersen.****WINDOW REPLACEMENT** an Andersen Company

*Double-Hung
Replacement Windows*

ADVANTAGES

- Both sash can be operated for ventilation at top and bottom of window.
- Both sash can be tilted inward for easy cleaning.
- Patented Fibrex® material is stronger than vinyl, providing greater durability.
- Fibrex material with low-maintenance capstock gives a rich, low-luster finish to sash and frame, similar to painted wood.
- Smooth radius surfaces on the frame and sash are pleasing to the eye and easier to clean.
- Mortise-and-tenon appearance on the interior and exterior sash corners gives a traditional, hand-crafted look.
- Full-perimeter weatherstrip provides superior weathertightness while still allowing easy sash operation.
- Sash are counterbalanced by a spring-powered block-and-tackle balance mounted on the side and matched to the weight of each individual sash.

APPLICATIONS

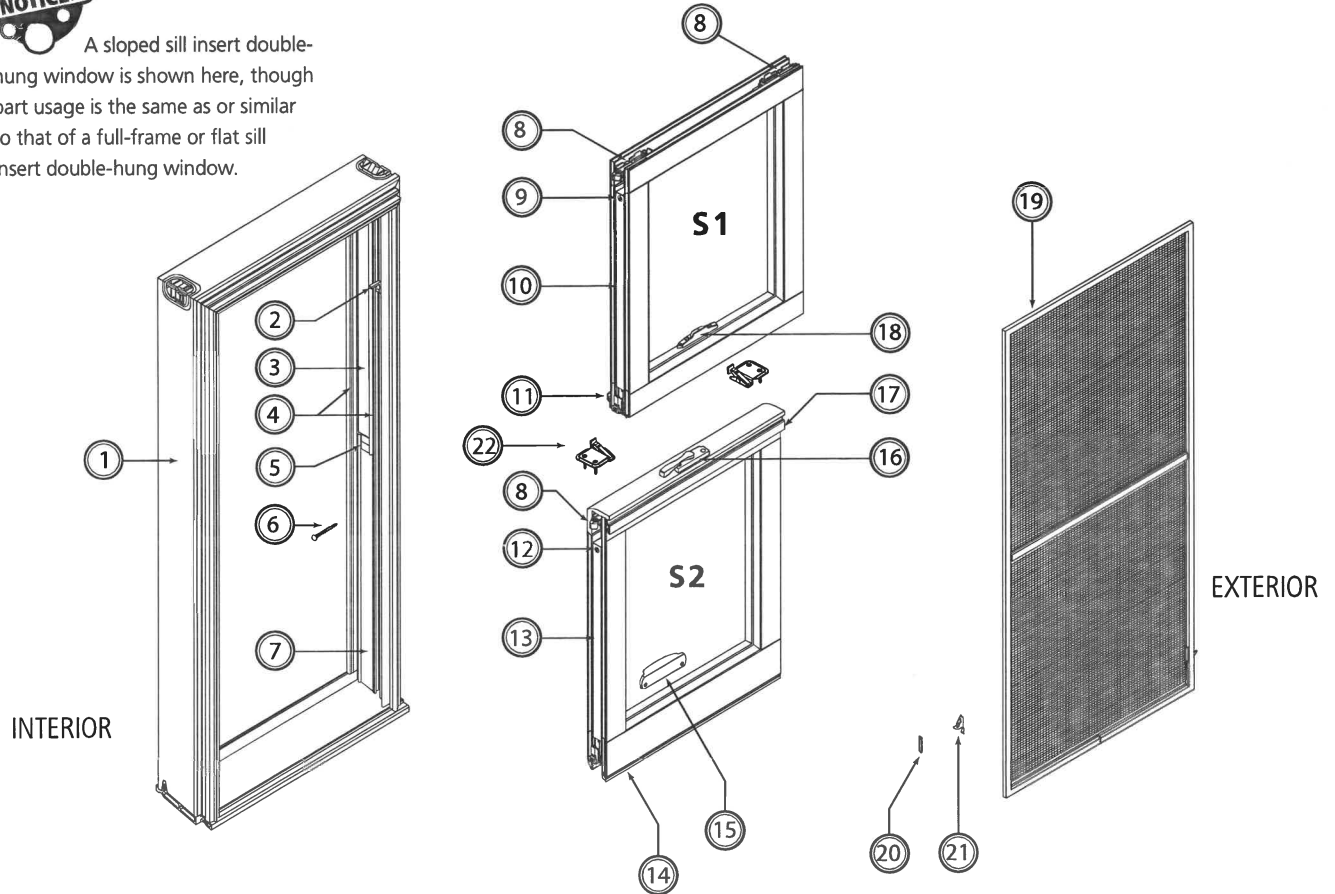
- Excellent choice for homes and condominiums where traditional styling is important; appropriate for many restoration projects.
- Suitable in areas facing walkways, decks and other traffic areas because sash do not project outward.
- Convenient in areas where the sash need to be cleaned from the interior.
- Visually compatible with other Renewal by Andersen® products.

EXPLODED VIEW

DOUBLE-HUNG WINDOW



A sloped sill insert double-hung window is shown here, though part usage is the same as or similar to that of a full-frame or flat sill insert double-hung window.



DOUBLE-HUNG COMPONENTS

- | | | |
|--|--|--|
| 1. Frame (insert) | 8. Tilt latch | 16. Sash lock |
| 2. Wash assist | 9. Upper balance screw | 17. Interior sash interlock (lower sash) |
| 3. Side jamb liner weatherstrip (upper) | 10. Balance (upper sash) | 18. Sash keeper |
| 4. Side jamb liner (interior and exterior sash tracks) | 11. Exterior sash interlock (upper sash) | 19. Insect screen |
| 5. Side cover check rail weatherstrip | 12. Lower balance screw | 20. Universal insect screen latch retainer |
| 6. Balance end clip screw | 13. Balance (lower sash) | 21. Insect screen latch |
| 7. Side jamb liner weatherstrip (lower) with integrated fin pile | 14. Bottom rail weatherstrip | 22. Child safety opening control device (optional) |
| | 15. Sash lift (optional) | |

STANDARD FEATURES

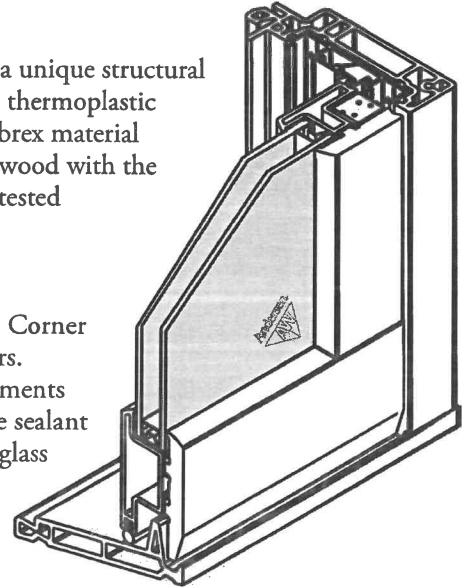
DOUBLE-HUNG WINDOW



A sloped sill insert double-hung window corner section is shown here, though **standard features are the same as for flat sill insert or full-frame** double-hung windows.

Described below are features that contribute to the double-hung window's low maintenance, energy efficiency, ease of operation, and pleasing appearance.

- **Frame** – Made of rigid Fibrex® material a unique structural composite of wood fibers and a special thermoplastic polymer. Developed by Andersen®, Fibrex material combines the strength and stability of wood with the low-maintenance features of our time-tested Perma-Shield® cladding.
- **Sash** – Constructed of Fibrex material. Corner keys provide durable, watertight corners. The mortise and tenon joinery complements the frame. A high-performance silicone sealant provides a watertight seal between the glass and sash.
- **Glazing** – High-Performance™ LoE⁴®* glass with an inert, energy-efficient gas, is standard for every window. See Options on page 3-6 for other glass choices.
- **Glass spacer** – The patented low-conductivity spacer is made of stainless steel and resists heat transfer four to five times better than aluminum spacers used by many other manufacturers.

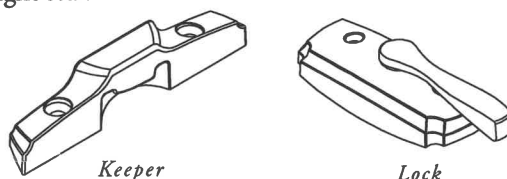


*LoE⁴ is a registered trademark of Cardinal IG Company.

STANDARD FEATURES, cont.

DOUBLE-HUNG WINDOW

- **Removable protective film** – Packaging features a clear protective film that is factory applied to both the interior and exterior glass surfaces to help protect the glass from shipping and installation damage.
- **Weatherstrip** – A dual system of a foam-filled bulb applied to the sash frame and a constant-force low-friction weatherstrip applied to the frame provide a tight seal.



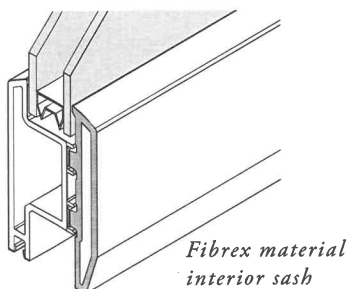
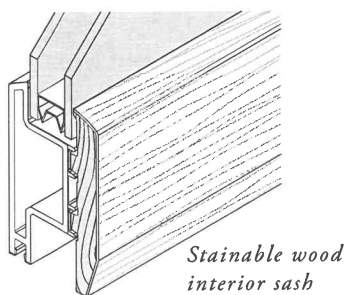
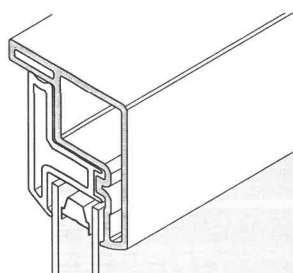
Keeper

Lock

- **Sash Lock and Keeper** – The zinc die cast dual cam-type sash lock, mounted at center of the meeting rail on the interior sash, engages easily into the keeper mounted on the center of the meeting rail on the exterior sash. The Double-hung Window Component Color Combination Chart on page 3-11 shows the hardware color for each window color combination.

OPTIONS

DOUBLE-HUNG WINDOW

Fibrex material
interior sashStainable wood
interior sashTraditional Fibrex Material
Square Check Rail

The following options are available for all Renewal by Andersen® double-hung windows:

- **Dual-Colors and Stainable Wood Interior Veneers** – Dual-color windows are available that have different interior and exterior colors. Stainable wood interior veneers are also available in oak, maple, and engineered pine. The Double-Hung Window Component Color Combination Chart on page 3-11 shows available color combinations and the default color of individual components for these combinations. Alternative component (e.g., insect screens, grilles, hardware, side jambs) color combinations are available upon request.

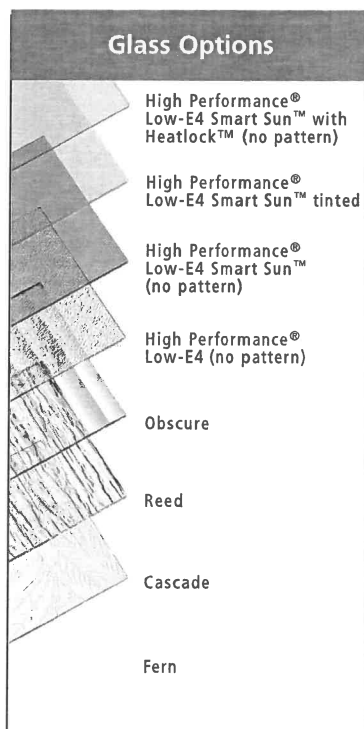
Painting and staining guidelines for Fibrex® material and stainable wood interiors are available in this manual, the *Product Installation Manual* and in the *Care and Maintenance Guide*.

- **Traditional Square Check Rail** – Optional square-shaped check rail available in oak, maple, engineered pine veneer and Fibrex material interior finishes offers a classic flat surface appearance. These classic lines create the old world look, using the advanced technology of today. This option can be used with any other double-hung lock components or grille accessories.
- **Rounded Contemporary Check Rail** – Original rounded contemporary check rail is still available (as an option) in same color and wood species.
- **TruScene® Insect Screen** – Micro-fine stainless steel mesh (25 x 25 per inch mesh) that provides over 50% more clarity than standard Andersen insect screens.

OPTIONS, cont.

DOUBLE-HUNG WINDOW

Double-Hung Window	Full Insect Screen	All sash ratios	Restrictions
			All heights available for unit widths less than or equal to 50-1/4". All widths available for unit heights less than or equal to 48-5/8".
<p>NOTE: Equal Sash Ratio DB min/max chart shown here; screen dimensions apply to all sash ratios.</p>			
Double-Hung Window	Half Insect Screen	All sash ratios	All sizes available, no restrictions



- **Aluminum Insect Screen Cloth** – Durable aluminum screen cloth (18 x 16 per inch mesh) in a glare-resistant charcoal gray.
- **Half Insect Screen** – A half insect screen is available that only covers the lower sash. The half screen does not impede the operation of the upper sash.
- **Decorative Glass Patterns** – Standard windows have no textured glass pattern whatsoever. Optional textured patterns are as follows:
 - Obscure (not available on double-hung windows taller than 86")
 - Reed
 - Cascade
 - Fern (not available on double-hung windows wider than 50-5/16")
- **Glass Coating** – High-Performance™ Low-E4™ coating is standard with all windows. Optional glazings are as follows:
 - Clear (no coating)
 - SmartSun™
 - High-Performance Low-E4 Smart Sun™ tinted coating
 - High Performance® Low-E4 Smart Sun™ with Heatlock™

* High Performance® Low-E4 Smart Sun™ with Heatlock™ not available with decorative glass patterns
- **Tempered Glass** – Tempering is an option for all available glass options. Untempered glass is standard.

OPTIONS, cont.

DOUBLE-HUNG WINDOW

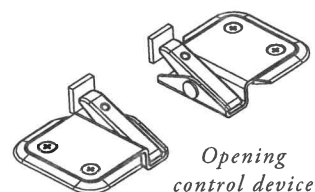
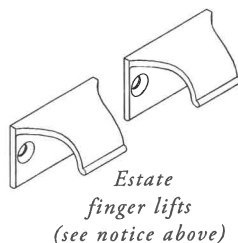
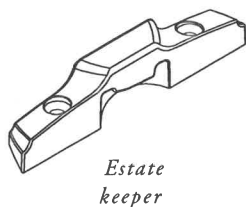
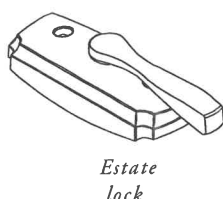
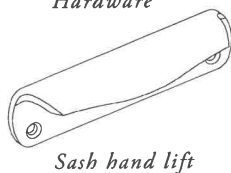
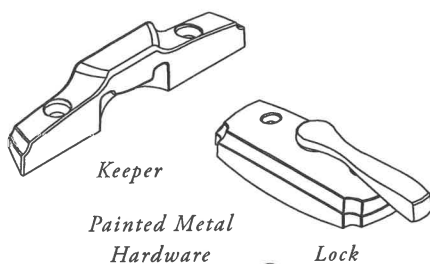
Unavailable Glass Patterns

Pattern	on windows wider than	or windows taller than
Reed*	56-7/8"	100-7/8"
Cascade*	56-7/8"	84-7/8"
Fern	56-7/8"	84-7/8"
Obscure	56-7/8"	84-7/8"

* Pattern is directional



When finger lifts are desired, order the window with **no** lifts. Finger lifts are then installed in the field after the window installation.



- **Glass Breather Tubes** – Breather tubes are available for glass intended for high-altitude installations. It is important to note that breather tubes will decrease the thermal performance of the unit. Refer to the Technical Data (Section 8) in this Spec and Tech Manual for altitude specifics.
- **Sash Lock** – A single zinc-cast metal lock is available in White, Stone and Canvas colors. Units narrower than 22-13/16" have a single lock. For units 22-13/16" wide or wider, a second lock is available as an option. For units wider than 45-9/16", a second lock is required.
- **Sash Lift** – One or two sash lifts may be mounted to the bottom rail of the lower sash. Can be specified, available in White, Stone, or Canvas colors or Estate™ finishes.
- **Estate™ Finish Hardware** – Estate finish hardware is available for all operating windows and is available in high performance bright brass, antique brass, high performance satin nickle, distressed nickel, brushed chrome, polished chrome, distressed bronze, oil-rubbed bronze and dark bronze. Hardware in each of the finishes is electroplated and/or modified to obtain the desired look. The Estate hardware components for double-hung windows are listed below:
 - **Lock and Keeper** – The zinc cast, plated lock and keeper provide elegant Estate styling that beautifully complements not only the window, but matches any Estate hardware found on Andersen® patio doors.
 - **Hand Lift** – Similar to the standard lift, the Estate hand lift provides an easy gripping surface with which to operate the window.
 - **Finger Lifts** – These smaller, more traditional looking lifts provide a different aesthetic option for a grasp to operate the window. These lifts are typically used in pairs.
 - **Opening Control Device** – Field-applied device restricts sash opening to 4 inches. This device will allow full sash opening when disengaged and will re-engage when sash is closed.

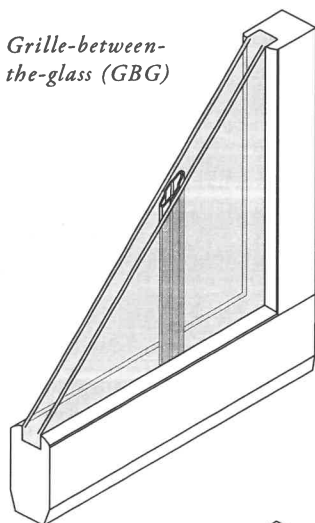
OPTIONS, cont.

DOUBLE-HUNG WINDOW

Available Grille Types

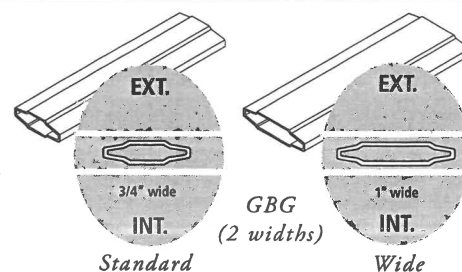
Three grille types are available. The interior and exterior sides of the grilles are color-coordinated with each side of the window frame. Consult the color combination charts in each window product section for detailed color information.

Grille-between-the-glass (GBG)

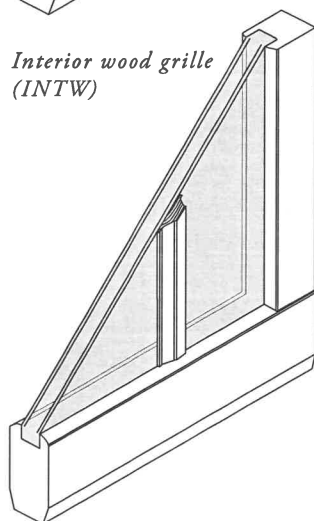


Grille-Between-the-Glass (GBG)

Sculpted aluminum grille members are manufactured between the glass panes, and are available in two widths. Enamel finish replicates interior and exterior face of window. If wood interior, interior facing surface will be gray.

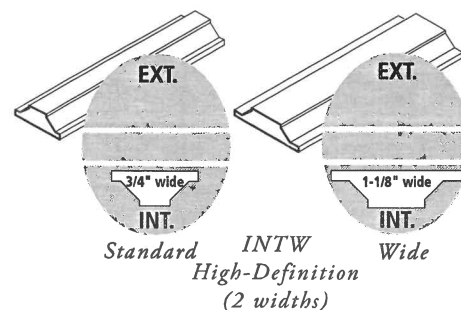


Interior wood grille (INTW)



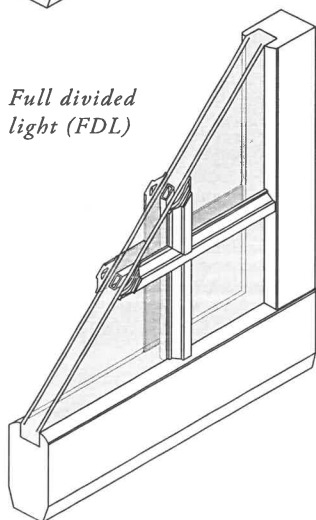
Interior Wood Grille (INTW)

With the option of hardwood maple or oak, these grilles snap into clips placed around the interior side of the sash and may be removed to clean the glass. These high-definition interior wood grilles are available in two different widths.



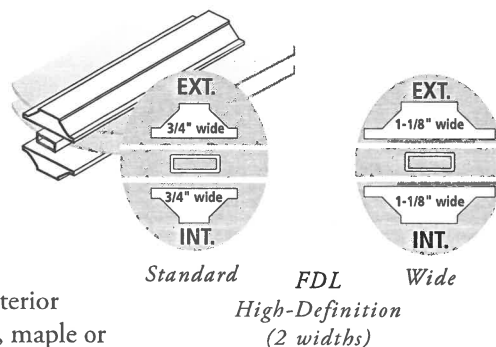
Interior wood grille clip

Full divided light (FDL)



Full Divided Light (FDL) Grille

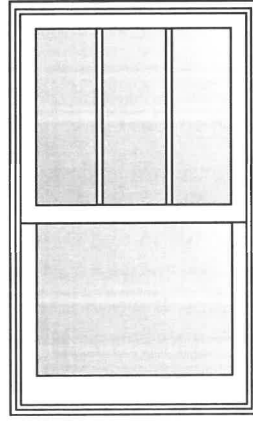
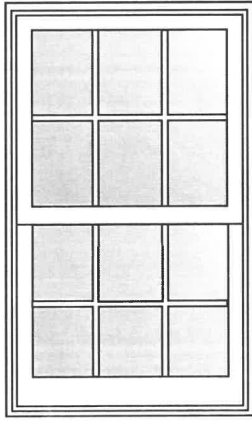
FDL grilles provide the classic look of a true divided light window. The high-definition exterior grille is made from Fibrex® material and is available in two different widths. Between the glass panes, an aluminum spacer stands slightly away from each pane to maintain thermal performance. The high-definition interior wood grille is available in hardwood, maple or oak and in two different widths, and may be permanently applied or removable.



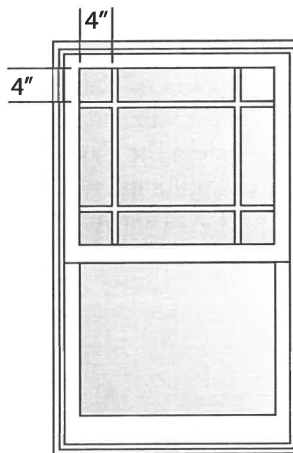
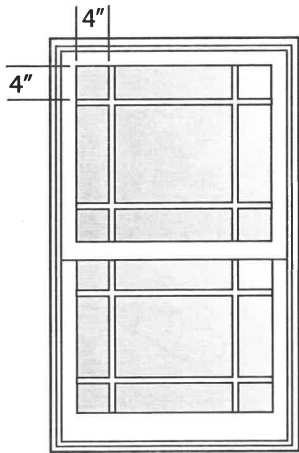
OPTIONS, cont.

DOUBLE-HUNG WINDOW

- Available Grille Patterns – Grille pattern options include colonial, prairie, and modified prairie.

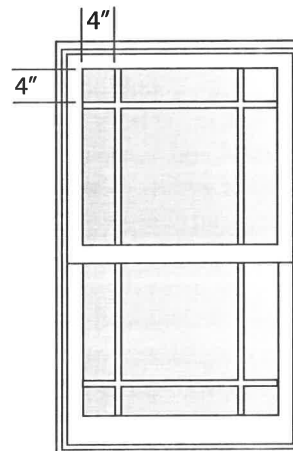
**COLONIAL**

Refer to colonial pattern grilles by pattern name and “grille lites wide by grille lites high” for each sash. For the examples shown, the left window would be “colonial pattern, 3 by 2, upper and lower sash”. For the example to the right, “colonial pattern, 3 by 1 on the upper sash, no grille on the lower sash”.

**PRAIRIE**

Regardless of sash size, all prairie grilles intersect to form 4" squares of visible glass in the corners of the sash. Prairie grilles are available on one or both sash.

The prairie grille pattern is not available on double-hung windows narrower than 20".

**MODIFIED PRAIRIE**

Regardless of sash size, all modified prairie grilles intersect to form 4" squares of visible glass. Modified prairie grilles are available for one or both sash.

The modified prairie grille pattern is not available on double-hung windows narrower than 20".

OPTIONS, cont.

DOUBLE-HUNG WINDOW

- **Exterior brick mould – Fibrex® material brick mould** is available in two configurations, picture frame and traditional style, as an exterior trim option for full-frame windows. Brick mould is available on insert frame windows in picture frame style only.
- **Overfit brick mould – Fibrex material** is available as an exterior trim option for insert flat sill only windows in picture frame style.

FULL-FRAME BRICK MOULD

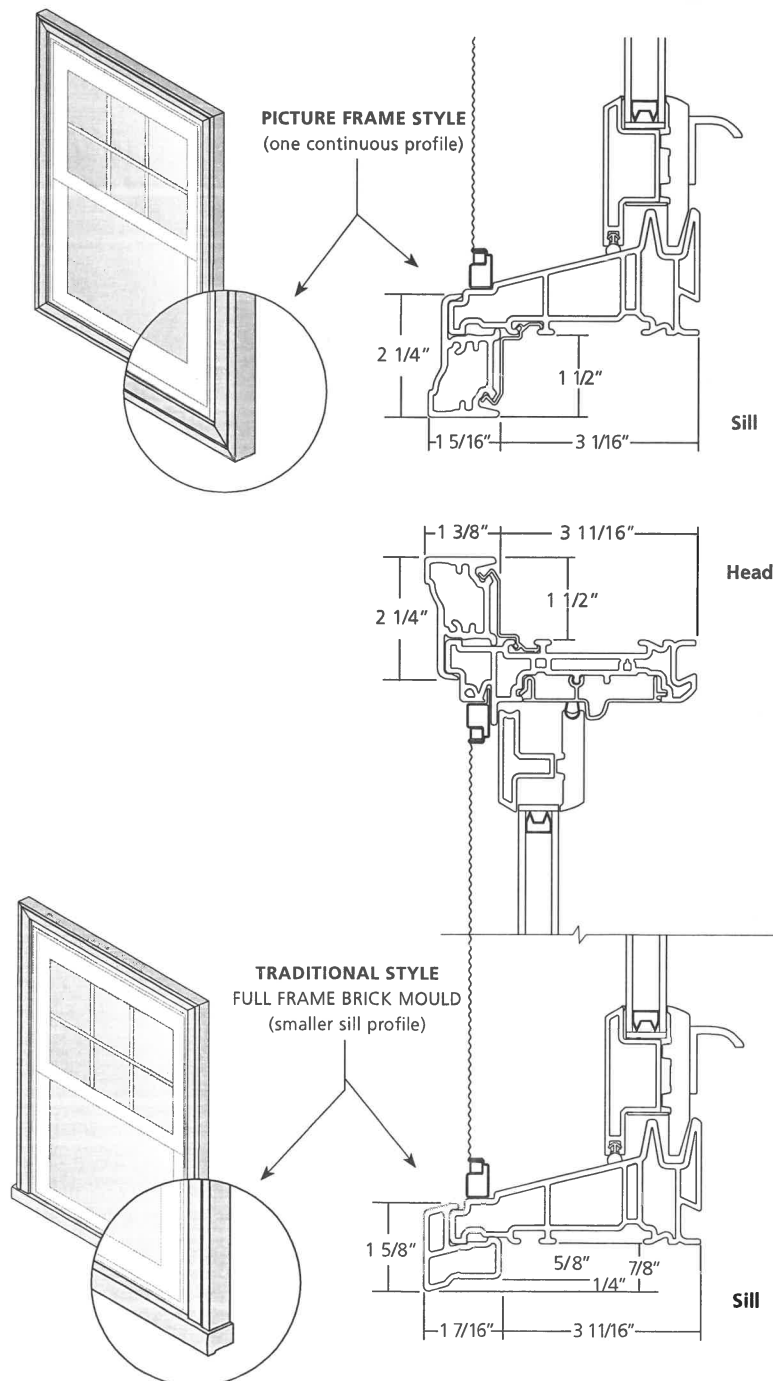
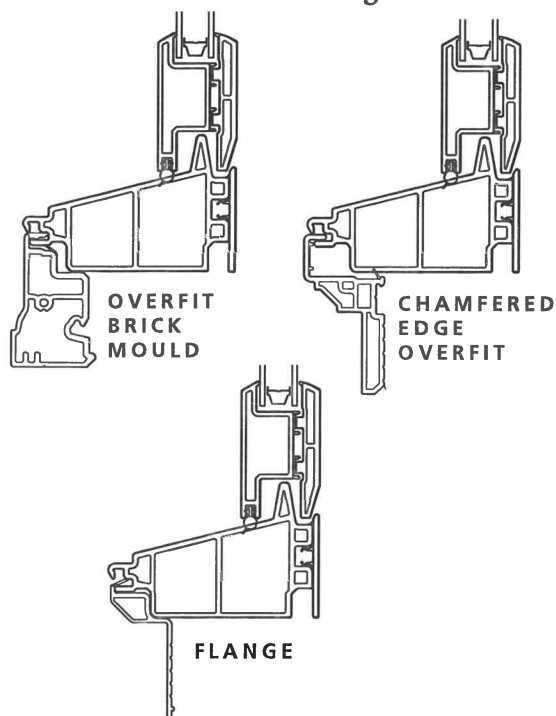
Full-frame brick mould is available in two configurations:

- **Picture Frame Style** – The same brick mould profile is used all the way around the window.
- **Traditional Style** – A thinner sill profile that runs completely under the side brick mould pieces is used reminiscent of old, traditional window installations.

INSERT-FRAME BRICK MOULD

- **Overfit Brick Mould – Fibrex material overfit brick mould** is available as an exterior trim option for insert (flat sill only) window in picture frame style.

- **Overfit Flange**
- **Chamfered Overfit Flange**



WINDOW COMPONENT COLOR COMBINATION CHART

DOUBLE-HUNG WINDOW

	Window Color		Interior and Exterior Colors (Exterior/Transition/Interior)			Components		Grille Between Glass		Interior Wood & Full Divided Light		Headliner		Side Jamb Components	
	Exterior	Interior	Sloped Sill White/White	Flat Sill White/White/White	Full Frame Sill White/White/White	Inset Screen Frame White	Hardware White	Exterior White	Interior White	Exterior White	Interior White	Exterior White	Interior White	Lower Exterior White/White	Upper Interior White/White
Single Color	White	White	Canvas/Canvas	Canvas/Canvas/Canvas	Canvas/Canvas/Canvas	Canvas	Canvas	Canvas	Canvas	Canvas	Canvas	Canvas	Canvas	Gray/Gray	Gray/Gray
	Sandtone	Sandtone	Sandtone/Sandtone	Sandtone/Sandtone/Sandtone	Sandtone/Sandtone/Sandtone	Sandtone	Stone	Sandtone	Sandtone	Sandtone	Sandtone	Sandtone	Sandtone	Gray/Gray	Gray/Gray
	Terratone	Terratone	Terratone/Terratone	Terratone/Terratone/Terratone	Terratone/Terratone/Terratone	Terratone	Stone	Terratone	Terratone	Terratone	Terratone	Terratone	Terratone	Gray/Gray	Gray/Gray
	Dark Bronze	Dark Bronze	Dark Bronze/Terratone	Dark Bronze/Terratone/Dark Bronze	Dark Bronze/Terratone/Dark Bronze	Dark Bronze	Dark Bronze	Dark Bronze	Dark Bronze	Dark Bronze	Dark Bronze	Dark Bronze	Dark Bronze	Gray/Gray	Gray/Gray
Dual Color	Canvas	White	Canvas/White	Canvas/Canvas/White	Canvas/White/White	Canvas	White	Canvas	White	Canvas	White	White	White	White/White	White/White
	Sandtone		Sandtone/White	Sandtone/Sandtone/White	Sandtone/White/White	Canvas		Canvas		Canvas				Gray/Gray	Gray/White
	Terratone		Terratone/White	Terratone/Terratone/White	Terratone/White/White	Canvas		Canvas		Canvas				Gray/Gray	Gray/White
	Cocoa Bean		Cocoa Bean/Canvas	Cocoa Bean/Canvas/White	Cocoa Bean/White/White	Canvas		Canvas		Canvas				Gray/Gray	Gray/White
	Dark Bronze		Dark Bronze/Canvas	Dark Bronze/Canvas/White	Dark Bronze/White/White	Canvas		Canvas		Canvas				Gray/Gray	Gray/White
	Forest Green		Forest Green/Canvas	Forest Green/Canvas/White	Forest Green/White/White	Canvas		Canvas		Canvas				Gray/Gray	Gray/White
	Black		Black/Canvas	Black/Canvas/White	Black/White/White	Canvas		Canvas		Canvas				Gray/Gray	Gray/White
	Red Rock		Red Rock/Canvas	Red Rock/Canvas/White	Red Rock/White/White	Canvas		Canvas		Canvas				Gray/Gray	Gray/White
	White	Canvas	White/Canvas	White/White/Canvas	White/Canvas/Canvas	Canvas	Canvas	White	Canvas	White	Canvas	Canvas	White	White/White	White/White
	Sandtone		Sandtone/Canvas	Sandtone/Sandtone/Canvas	Sandtone/Canvas/Canvas	Canvas		Canvas		Canvas		Canvas	Canvas	White/White	White/White
	Terratone		Terratone/Canvas	Terratone/Terratone/Canvas	Terratone/Canvas/Canvas	Canvas		Canvas		Canvas		Canvas	Canvas	White/White	White/White
	Cocoa Bean		Cocoa Bean/Canvas	Cocoa Bean/Canvas/Canvas	Cocoa Bean/Canvas/Canvas	Canvas		Canvas		Canvas		Canvas	Canvas	White/White	White/White
Stainable Wood Interiors	Dark Bronze		Dark Bronze/Canvas	Dark Bronze/Canvas/Canvas	Dark Bronze/Canvas/Canvas	Canvas		Canvas		Canvas		Canvas	Canvas	White/White	White/White
	Forest Green		Forest Green/Canvas	Forest Green/Canvas/Canvas	Forest Green/Canvas/Canvas	Canvas		Canvas		Canvas		Canvas	Canvas	White/White	White/White
	Black		Black/Canvas	Black/Canvas/Canvas	Black/Canvas/Canvas	Canvas		Canvas		Canvas		Canvas	Canvas	White/White	White/White
	Red Rock		Red Rock/Canvas	Red Rock/Canvas/Canvas	Red Rock/Canvas/Canvas	Canvas		Canvas		Canvas		Canvas	Canvas	White/White	White/White
	White	Wood*	White/White	White/White/Wood	White/White/Wood	Canvas	Stone	White	Sandtone	Canvas	Wood**	Gray	Wood	White/White	Wood/White
	Canvas		Canvas/Canvas	Canvas/Canvas/Wood	Canvas/Canvas/Wood	Canvas		Canvas		Canvas				Gray/Gray	Wood/White
	Sandtone		Sandtone/Sandtone	Sandtone/Sandtone/Wood	Sandtone/Sandtone/Wood	Canvas		Canvas		Canvas				Gray/Gray	Wood/White
	Terratone		Terratone/Terratone	Terratone/Terratone/Wood	Terratone/Terratone/Wood	Canvas		Canvas		Canvas				Gray/Gray	Wood/White
	Cocoa Bean		Cocoa Bean/Canvas	Cocoa Bean/Canvas/Wood	Cocoa Bean/Canvas/Wood	Canvas		Canvas		Canvas				Gray/Gray	Wood/White
	Dark Bronze		Dark Bronze/Canvas	Dark Bronze/Canvas/Wood	Dark Bronze/Canvas/Wood	Canvas		Canvas		Canvas				Gray/Gray	Wood/White
	Forest Green		Forest Green/Canvas	Forest Green/Canvas/Wood	Forest Green/Canvas/Wood	Canvas		Canvas		Canvas				Gray/Gray	Wood/White
	Black		Black/Canvas	Black/Canvas/Wood	Black/Canvas/Wood	Canvas		Canvas		Canvas				Gray/Gray	Wood/White

Alternative component and grille color combinations for each frame/sash color are available upon request

* Wood interiors available in: pine, maple and oak

** Pine and maple interiors will use maple species interior grilles. Oak interiors will use oak species interior grilles

