

Development Application
Town of Stowe Planning & Zoning Department

PO Box 730 Stowe, VT 05672

Stowe, VT 05672 (Telephone: (802) 253-6141

| Project # | 7007 |
|------------------|------|
| (To be assigned) | 1500 |

Date Received: 10 29 24

| This form reviews. | n serves as an application for all requested zoning and subdivision |
|---|---|
| | Property Owner Information |
| Property Owner | STEWE COMMUNITY CHURCH |
| Mailing Street Address City, State and Zip | 137 MAIN STREET STOWE, UT 05672 |
| Telephone Number | T NOBLE Email Scotto greenmountain finearte |
| | Applicant information (Relationship to Owner) |
| | ner (If so, skip to property information) Lessee Contractor urchitect/Designer Agent for Owner Under purchase contract |
| Al | I information and correspondence is sent to applicant/contact. |
| Applicant Name | DOUG VIEHMAND GYY MILCHITECTS INC |
| Company (if any) | |
| Mailing Street Address | 284 S. UNION ST. |
| City, State and Zip | BURLINATOR, VT 85401 |
| Phone Number 202 | 362 963 Email du egyvarchitects, com |
| - 2 | Property Information & Location |
| Physical Address | 188 Yt ROUTE 100, Stows YT |
| Tax Map ID | |
| Existing Use PESIDE | Proposed Use RESIDENTIAL I FAMILY |
| | e the proposed project, intended use, and/or development request below: |
| INTERIOR | PENDUATIONS ADDING 1 BOTH |
| UPGRADINA | 4 1 BATH & 3/4 BATH & KITCHEN |
| | |
| 0-1 | INI. SPLIT HUAC SYSTEM TO 2ND FLOOR |
| REPLACING | TRIPLE WINDOW UNIT ON BACK WITH |
| | TWO DOWBLE HUNG WINDOWS. |
| For All Approvals: | |
| The below signed hereby agre | es that the proposed work shall be done in accordance with the application, plan, |
| specifications, and other associations. Signing as on "An | ciated documentation and that the work shall conform to all applicable town ordinances and |
| | ent for Owner" indicates that the person signing has the permission of the owner to act on permits may be needed from the State of Vermont and/or the Town of Stowe for |
| development. | permiss may be needed from the state of vermont and/or the rown of stowe for |
| Indicate if: | Signature: 600 M |
| □ Property Owner OR | o Good of the contract of the |
| ☐ Agent for Owner | Date: 10/28/24 |
| Additiona | al application information is required on reverse side: → |

Note: Local Zoning approval does not cover any required state approvals. Wastewater System and Potable Water Supply permits may be required for construction or modifications that change the wastewater flow. Other State permits may be required for certain uses. The applicant is advised to contact a DEC Permit Specialist to discuss the State permit requirements at 802-505-5367.

Construction Information

A site plan showing the proposed development is required if construction is involved. The applicant is responsible for determining property lines and setbacks.

Please answer the questions below for all projects:

| Will there be a new curb cut (driveway opening)? | Yes□ No 🔀 |
|--|-------------|
| Will over ½ acre of land be graded or disturbed? | Yes□ No 🖼 |
| Will the development create an additional ½ acre of impervious surface? | Yes□ No 🗷 |
| Will there be other changes resulting in increased sewer or water flows? | Yes□ No 💅 |
| Will there be a new connection to the Stowe sewage system? | Yes □ No 🗷 |
| Will there be a new connection to the Stowe water system? | Yes□ No 154 |
| Is any portion of the building rented out? | Yes□ No 🗷 |
| Is an Act 250 permit or amendment required? | Yes□ No 🗷 |
| | |

Maximum Bldg. Height: ____ * Building Height is defined as the vertical distance measured from the average elevation of the proposed finished grade at the front or rear of the building to the highest point of the roof for flat and mansard roofs, and to the average height between eaves and ridge for other types of roofs. On sloping sites the height will be measured on the uphill side.

Please answer the questions below for all projects involving residential dwellings:

| Existing Rooms: | # Bathrooms: 13/4 | # Bedrooms: | 3 | # Kitchens: |
|-----------------|-------------------|-------------|---|-------------|
| New Rooms: | # Bathrooms: 23/4 | # Bedrooms: | 3 | # Kitchens: |

| Zimoting itoomor | " Butin como: | 1 7 | " Boar come. | | ,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | · 1 |
|--|---|--------------------|------------------------|-----------------|---|-------------|
| New Rooms: | # Bathrooms: | 23/4 | # Bedrooms: | 3 | # Kitchen | s: 1 |
| Please complete the fee co | alculation below f | or all a | pplications: | | | |
| Zoning Permit Fees - Single & | Two-Family Dwellin | gs (Pern | itted Uses) | | Fee/Sq. Ft. | Fee Require |
| Enclosed building spaces per sq. ft (heated & unheated) | | | | | \$0.30 | |
| Unenclosed building spaces per | Jnenclosed building spaces per sq. ft (i.e., decks, open porches, etc.) | | | | | |
| Structures other than buildings | (i.e., ponds, tennis co | ırts, fence | s, etc.) - per structu | ıre | \$60.00 | |
| Minimum application fee for Si | ngle & Two-Family Dw | ellings/P | ermitted Uses | | \$60.00 | |
| | | y . | | | Fee: | \$ |
| Zoning Permit Fees - Condition | onal Uses (Commerci | al & Mult | ti-Family Uses) | | Fee/Sq. Ft. | Fee Require |
| Enclosed building spaces per so | g. ft (heated & unheate | d) | | | \$0.40 | |
| Unenclosed building spaces per | sq. ft (i.e., decks, oper | porches, | etc.) | | \$0.25 | 01 - 22 |
| Structures other than buildings | (i.e., ponds, tennis cou | ırts, fence | s, etc.) - per structu | ire | \$100 | |
| Administrative amendment by Zoning Administrator | | | | | \$75.00 | |
| | | | | | Fee: | \$ |
| Development Review & Publi | c Hearing Fees | | | | Fee/Sq. Ft. | Fee Require |
| Appeal of Action of Zoning Adm | inistrator | | | | \$250.00 | |
| Variance or Dimensional Waive | r | | | | \$250.00 | |
| Conditional Use Review | | | | | \$250.00 | |
| Ridgeline & Hillside Overlay Dis | 12 5 | | | | \$250.00 | |
| Design Review (Single-Family & | | | | | \$60.00 | |
| Design Review (All other uses e | xcept Single-Family & | Two-Fam | ily Dwelling) | | \$250.00 | |
| Subdivision Review (includes P | RD's & PUD's) | | | | *** | |
| Preliminary Layout Application | (base fee) | | | | \$250.00 | |
| Preliminary Layout (fee per uni | t or lot if equal to and, | or more t | han 5 lots/units) | | \$275.00 | |
| Final Plat Application (base fee) | | | | | \$250.00 | |
| Final Plat Application (addition required) | al fee per unit or lot if | prelimina | ry layout was not | | \$150.00 | |
| Minimal Alteration reviewed by | Zoning Administrator | • | | | \$100.00 | |
| Other subdivision applications/ | amendments requirin | g DRB app | oroval | | \$250.00 | |
| | | | | | Fee: | \$ |
| Signs | | | | | \$70.00 | |
| A CONTRACTOR OF THE CONTRACTOR | THE RESERVE AND THE PERSON OF | THE PARTY NAMED IN | | SULT THE STREET | Fee: | \$ |

| Additional Recording Fee for decision notice | \$15.00/page | \$ |
|--|-----------------------------|----|
| Additional Recording Fee for permit | \$15.00/page | \$ |
| Additional Recording Fee for Mylar | \$25.00/sheet | \$ |
| Total Applicat | ion Fee Including Recording | \$ |

Payments should be made to the Town of Stowe. Payment can be made by cash, check, or with a credit card (Mastercard, Visa or Discover) or online. Go to www.townofstowevt.org/townclerk/ and click the link for online payments. Please note there is a 3% convenience fee for credit card payments.

Incomplete applications will be returned. A complete application must include a site plan, elevation drawings, and floorplans. See application checklists for additional guidance.

| <u>OI</u> | FFICE USE ONLY | |
|--|---|----------------------------|
| Date Received | Permit Fee | \$ |
| Zoning District | Recording Fee | \$ |
| Overlay District | TOTAL FEE | \$ |
| Approved Date Effective Date Expiration Date | _ | Cash |
| Denied Date Reason | | |
| Comments/Conditions | | |
| | | |
| | | |
| Zoning Administrator | Date | |
| For assistance, please contact the Pl | anning & Zoning Department o PandZ@stowevt.gov | of 253-6141 or by email at |

The Town of Stowe welcomes all persons, regardless of race, color, religion, national origin, sex, gender identity or expression, family status, age, or ability, and wants everyone to feel safe and welcome in our community. As a town, we formally condemn discrimination in all its forms, commit to fair and equal treatment of everyone in our community, and will strive to ensure all of our actions, policies, and operating procedures reflect this commitment. The Town of Stowe has and will continue to be a place where individuals can live freely and express their opinion.

Architects Inc. GUILLOT • VIVIAN • VIEHMANN

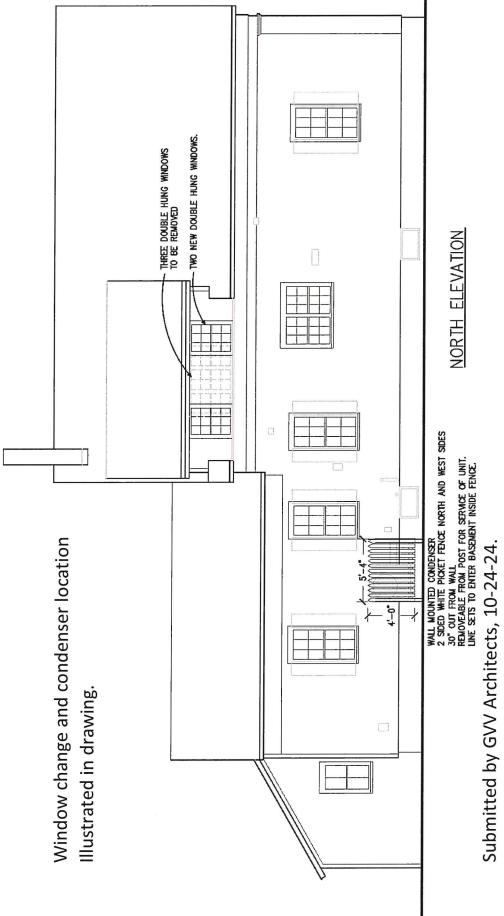
Stowe Community Church Parsonage

similar to existing in back yard, will be installed on north and west sides of condenser. Sections will Condenser to be installed for new mini split HVAC system on north side of house. Picket fence be removable for servicing equipment.

Line sets will run inside house to wall mounted interior units.



Approximate location of new fencing around condenser.



NORTH ELEVATION

PERFORMANCE

100 Series products simply perform like modern windows and doors should. They're made from our proprietary Fibrex® material, which is extremely low maintenance and blocks thermal transfer 700 times better than aluminum to help your customers save money on heating and cooling costs.

ATTRACTIVE CORNER SEAMS

Low-visibility corner seams for a cleaner and more modern look.

COLORS THAT LAST

Durable factory-finished interiors and exteriors never need painting and won't fade, flake, blister or peel,* even in extreme cold or heat.

ATTRACTIVE MATTE INTERIORS

Premium matte finish isn't shiny like vinyl and is available in white, Sandtone, dark bronze and black**

ENERGY EFFICIENT IN EVERY CLIMATE

Energy-efficient 100 Series products are available with options that make them ENERGY STAR® v. 7.0 certified throughout the U.S. so they can help reduce heating and cooling bills.

Visit andersenwindows.com/energystar for more information and to verify that the product with your glass option is certified in your area.





DESIGNED FOR PERFORMANCE

100 Series products are designed to meet or exceed performance requirements in all 50 states! See pages 112-113 for details.



EASY TO OPERATE FOR YEARS TO COME

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

SUPERIOR WEATHER RESISTANCE

Our weather-resistant construction seals out drafts, wind and water so well that your reputation is protected whatever the weather.

QUALITY SO SOLID, THE WARRANTY IS TRANSFERABLE

Many other window and door warranties end when a home is sold, but our coverage – 20 years on glass, 10 years on non-glass parts – transfers from each owner to the next. And because it's not prorated, the coverage offers full benefits year after year, owner after owner. So it can add real value when you decide to sell your home.



*Visit andersenwindows.com/warranty for details.

**Products with Sandtone, dark bronze and black interiors have matching exteriors.

†See your local code official for code requirements in your area.

††100SHS4066 PGUP +50/-50 (AAMA/WDMA/CSA 101/I.S.2/A440-08 & -11). Optional PG50 performance grade upgrade is available for most sizes. For more information, visit andersenwindows.com/100series.

"ENERGY STAR" is a registered trademark of the U.S. Environmental Protection Agency.

FIBREX® MATERIAL

Developed by Andersen, Fibrex material is a revolutionary structural composite material that blends the very best attributes of vinyl and wood. Fibrex material saves on natural resources because it's composed of 40% reclaimed wood fiber by weight. Special polymer formulations surround and fill each wood fiber, enabling top performance. The result is a material that provides uncommon value and enhances the quality of any project. In use for over two decades in Andersen® products, Fibrex material has proven its strength and durability in all types of climates.

REVOLUTIONARY BUILDING MATERIAL

- Twice as strong as vinyl so weathertight seals stay weathertight
- Blocks thermal transfer nearly 700 times better than aluminum to help reduce heating and cooling bills
- Retains its stability and rigidity in all climates for exceptional durability
- Offers superior scratch resistance compared to painted vinyl*

ENVIRONMENTALLY RESPONSIBLE

- Since Andersen developed the highly sustainable Fibrex material, reuse of waste wood fiber has prevented the harvesting of nearly 90 million board feet of timber
- 100 Series products can help builders earn LEED® points in three key categories:
 Energy & Atmosphere, Materials & Resources and Indoor Environmental Quality
- 100 Series products meet or exceed California Section 01350 Specification,
 a California indoor emission standard one of the toughest in the country
- Like all Andersen products, 100 Series products are designed to last**
 and help reduce future waste streams







See how Andersen created Fibrex material at andersenwindows.com/fibrex.

EXTERIORS & INTERIORS

100 Series windows and patio doors come in five exterior colors, including dark bronze and black – colors that are darker and richer than those of most vinyl windows. The interiors feature a premium matte finish for an attractive appearance.



*Products with Sandtone, dark bronze and black interiors have matching exteriors. Printing limitations prevent exact duplication of colors. See your Andersen supplier for actual color samples.



HARDWARE

Casement & Awning Windows



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

Folding handles avoid interference with window treatments.



Optional Metal Slim Line Lock

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

Lock automatically engages when window is closed.

WINDOW HARDWARE FINISHES



Gliding Patio Doors



TULSA

Standard Handle

Exterior handle color matches the door's exterior. Interior handle color matches the door's interior.

Exterior handle shown in dark bronze. Interior handle shown in white.

Optional auxiliary foot lock is available. See page 100.

TULSA HARDWARE FINISHES



Black









White

Dark Bronze Sandtone Terratone'





AFTON

Optional Handle

Antique Brass Black Bright Brass **Satin Nickel**

Optional auxiliary foot lock is available. See page 100. Bold name denotes color or finish shown.

AFTON HARDWARE FINISHES



Brass







Bright Brass S

Satin Nickel

^{*}Available for exterior handle only.

Printing limitation prevent exact replication of colors and finishes.

See your Andersen supplier for actual color and finish samples.

GLASS

Andersen has the glass you need to get the performance you want, with options for every climate, project and customer. Check with your supplier for the selections that meet ENERGY STAR® requirements in your area.

| | | ENE | RGY | LIGHT | | | |
|-------------------------------------|---|---|---|---|--|--|--|
| | GLASS | U-Factor How well a product prevents heat from escaping. | Solar Heat Gain Coefficient How well a product blocks heat caused by sunlight. | Visible Light Transmittance How much visible light comes through a product. | UV Protection How well a product blocks ultraviolet rays. | | |
| SmartSun™ | Thermal control similar to tinted glass, with visible light transmittance similar to Low-E glass. | • • • • | • • • • | • • • • | • • • • | | |
| SmartSun with HeatLock® Coating | Applied to the room-side surface, it reflects heat back into the home and improves U-Factor values. | • • • • | • • • • | • • • • | • • • • | | |
| Low-E | Outstanding overall performance for climates where both heating and cooling costs are a concern. | • • • • | • • • ○ | • • • 0 | • • • • | | |
| Low-E with HeatLock Coating | Applied to the room-side surface, it reflects heat back into the home and improves U-Factor values. | • • • 0 | • • • • | • • • • | • • • • | | |
| Sun | Outstanding thermal control in southern climates where less solar heat gain is desired. | • • • • | • • • • | • 0 0 0 | • • • • | | |
| PassiveSun® | Ideal for northern, passive solar construction applications where solar heat gain is desired. | • • • • | • 0 0 0 | • • • • | • • • • | | |
| PassiveSun with HeatLock Coating | Applied to the room-side surface, it reflects heat back into the home and improves U-Factor values. | • • • • | • 0 0 0 | • • • • | • • • • | | |
| Clear Dual-Pane | High visibility, with basic thermal performance. | • 0 0 0 | 0000 | • • • • | 0000 | | |
| | | l | | | | | |

Center of glass performance only. Ratings based on glass options as of August 2023. Visit andersenwindows.com/energystar for ENERGY STAR map and NFRC total unit performance data.

HEATLOCK TECHNOLOGY

Applied to the room-side glass surface, HeatLock coating reflects heat back into the home for improved performance.

TIME-SAVING FILM

We protect our products during delivery and construction with translucent film on the glass that peels away for a virtually spotless window.

For more details on our glass options, visit andersenwindows.com/glass.



ADDITIONAL GLASS OPTIONS

Tempered safety glass is standard on patio doors and required for larger window sizes.

Patterned glass lets in light while obscuring vision and adds a unique, decorative touch.



Cascade and Reed patterns are only available in a vertical orientation.

GLASS SPACER OPTIONS

In addition to stainless steel glass spacers, black glass spacers are available as another way to customize project designs and achieve a contemporary style. Black glass spacers can blend in with the color of the window or door for a sleek design or serve as a shadow line.

Add full divided light grilles and the grille spacer bar between the glass will match.



GRILLES

Grilles for 100 Series windows and patio doors are available in a wide variety of patterns to complement virtually any style of home. Plus, they have options for easy cleaning and architectural authenticity many vinyl windows can't match.



Finelight grillesbetween-the-glass



Finelight grillesbetween-the-glass with permanent exterior



Permanent exterior and permanent interior with spacer



Permanent exterior and permanent interior without spacer

FINELIGHT™ GRILLES-BETWEEN-THE-GLASS

Make glass easy to clean and have an elegant, sculpted profile. Choose a two-sided color scheme to match both the interior and exterior of the window or patio door. Also available with exterior grilles to provide architectural style and detail.

FULL DIVIDED LIGHT

Permanently applied to the exterior and interior of the window, with a spacer between the glass.

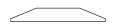
SIMULATED DIVIDED LIGHT

Permanently applied to the exterior and interior of the window, without a spacer between the glass.

Grille Bar Widths Actual width shown.

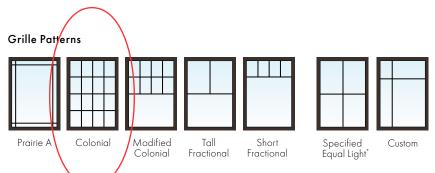


34" (19) width grille bar for windows.



1" (25) width grille bar for patio doors.

A 2 ¼" (57) width grille is available for most units to simulate a meeting rail or a multi-unit combination such as a transom over a window or patio door.

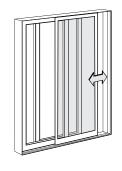


To see all of the standard patterns available for a specific window or door, refer to the detailed product sections in this product guide or contact your Andersen supplier.

ÍNSECT SCREENS



Insect screens for venting windows have a fiberglass screen mesh. Optional TruScene® insect screens are made with a micro-fine stainless steel mesh, providing more than 50% greater clarity than our conventional insect screens. Insect screen frames for casement and awning windows are color matched to the product interior and for single-hung and gliding windows are matched to the product exterior.

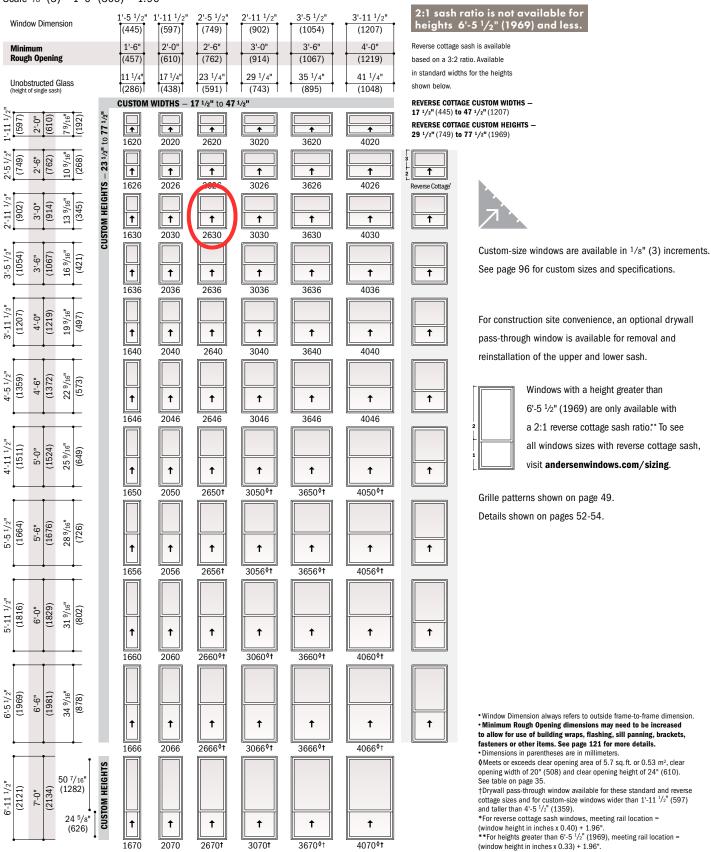


Gliding insect screens for two-panel gliding patio doors have a fiberglass screen mesh. Insect screen frames for doors are color matched to the product exterior.

SINGLE-HUNG WINDOWS

Table of Single-Hung Window Sizes

Scale $\frac{1}{8}$ " (3) = 1'-0" (305) - 1:96



continued on next page



Center of Glass Performance Data

For current performance information, please visit andersenwindows.com.

| | | | | | Fa | ding | %RH @ | |
|---|--------|-----------------|-------------------|------------------|------------------|------------------|---------------------|-------------------|
| Andersen® 100 Series Product | VT^1 | SC ² | SHGC ³ | RHG ⁴ | Tuv ⁵ | Tdw ⁶ | center ⁷ | IGST ⁸ |
| Low-E | | | | | | | , | |
| Casement, Awning, Single-Hung, Gliding and Transom Windows (all frames types) | 72% | 0.48 | 0.41 | 98 | 16% | 33% | 61% | 56°F |
| Picture and Specialty Windows - Flush Fin Frame | 72% | 0.48 | 0.41 | 98 | 16% | 33% | 61% | 56°F |
| Picture and Specialty Windows – 1 ³ /s" Flange Setback, 1" Flange Setback, No Flange, Insert Frames | 72% | 0.47 | 0.41 | 98 | 16% | 33% | 60% | 55°F |
| Gliding Patio Doors | 72% | 0.47 | 0.41 | 98 | 16% | 33% | 60% | 55°F |
| Patio Door Sidelights and Transoms | 72% | 0.47 | 0.41 | 98 | 16% | 33% | 60% | 55°F |
| Low-E With HeatLock® Technology | | | | | | | | |
| Casement, Awning, Single-Hung, Gliding and Transom Windows (all frames types) | 70% | 0.47 | 0.41 | 96 | 16% | 33% | 44% | 47°F |
| Picture and Specialty Windows - Flush Fin Frame | 70% | 0.47 | 0.41 | 96 | 16% | 33% | 44% | 47°F |
| Picture and Specialty Windows - 1 ³ / ₈ " Flange Setback, 1" Flange Setback, No Flange, Insert Frames | 70% | 0.47 | 0.40 | 95 | 16% | 33% | 44% | 47°F |
| Gliding Patio Doors | 70% | 0.47 | 0.40 | 95 | 16% | 33% | 44% | 47°F |
| Patio Door Sidelights and Transoms | 70% | 0.47 | 0.40 | 95 | 16% | 33% | 44% | 47°I |
| Low-E SmartSun™ | | | | | | | | |
| Casement, Awning, Single-Hung, Gliding and Transom Windows (all frames types) | 65% | 0.31 | 0.27 | 66 | 5% | 21% | 62% | 56°F |
| Picture and Specialty Windows - Flush Fin Frame | 65% | 0.31 | 0.27 | 66 | 5% | 21% | 62% | 56°I |
| Picture and Specialty Windows - 1 3/8" Flange Setback, 1" Flange Setback, No Flange, Insert Frames | 65% | 0.31 | 0.27 | 65 | 5% | 21% | 61% | 56°I |
| Gliding Patio Doors | 65% | 0.31 | 0.27 | 65 | 5% | 21% | 61% | 56°I |
| Patio Door Sidelights and Transoms | 65% | 0.31 | 0.27 | 65 | 5% | 21% | 61% | 56°I |
| Low-E SmartSun With HeatLock Technology | 0070 | 0.01 | 0.21 | | 070 | 2170 | 0170 | |
| Casement, Awning, Single-Hung, Gliding and Transom Windows (all frames types) | 63% | 0.31 | 0.27 | 64 | 5% | 21% | 46% | 48°I |
| Picture and Specialty Windows - Flush Fin Frame | 63% | 0.31 | 0.27 | 64 | 5% | 21% | 46% | 48°I |
| Picture and Specialty Windows - Flush Fill Flame Picture and Specialty Windows - 1 3/8" Flange Setback, 1" Flange Setback, No Flange, Insert Frames | | | | | 5% | | | 47°1 |
| , | 63% | 0.31 | 0.27 | 63 | 5% | 21% | 44% | 47°1 |
| Gliding Patio Doors | 63% | 0.31 | 0.27 | 63 | | | | 47°I |
| Patio Door Sidelights and Transoms | 63% | 0.31 | 0.21 | 63 | 5% | 21% | 44% | 77. |
| Sun | 400/ | 0.00 | 0.05 | | 1.00/ | 0.40/ | C00/ | |
| Casement, Awning, Single-Hung, Gliding and Transom Windows (all frames types) | 40% | 0.29 | 0.25 | 61 | 16% | 24% | 60% | 55°I |
| Picture and Specialty Windows - Flush Fin Frame | 40% | 0.29 | 0.25 | 61 | 16% | 24% | 60% | 55°I |
| Picture and Specialty Windows – 1 3/8" Flange Setback, 1" Flange Setback, No Flange, Insert Frames | 40% | 0.29 | 0.25 | 60 | 16% | 24% | 59% | 55°F |
| Gliding Patio Doors | 40% | 0.29 | 0.25 | 60 | 16% | 24% | 59% | 55°F |
| Patio Door Sidelights and Transoms | 40% | 0.29 | 0.25 | 60 | 16% | 24% | 59% | 55°F |
| Low-E PassiveSun | | | | | | | | |
| Casement, Awning, Single-Hung, Gliding and Transom Windows (all frames types) | 79% | 0.79 | 0.69 | 161 | 29% | 42% | 60% | 55°I |
| Picture and Specialty Windows - Flush Fin Frame | 79% | 0.79 | 0.69 | 161 | 29% | 42% | 60% | 55°I |
| Picture and Specialty Windows – 1 ³ / ₈ " Flange Setback, 1" Flange Setback, No Flange, Insert Frames | 79% | 0.79 | 0.69 | 161 | 29% | 42% | 59% | 55°I |
| Gliding Patio Doors | 79% | 0.79 | 0.69 | 161 | 29% | 42% | 59% | 55°F |
| Patio Door Sidelights and Transoms | 79% | 0.79 | 0.69 | 161 | 29% | 42% | 59% | 55°I |
| Low-E PassiveSun With HeatLock Technology | | | | | | | | |
| Casement, Awning, Single-Hung, Gliding and Transom Windows (all frames types) | 77% | 0.72 | 0.62 | 146 | 27% | 40% | 42% | 46°I |
| Picture and Specialty Windows - Flush Fin Frame | 77% | 0.72 | 0.62 | 146 | 27% | 40% | 42% | 46°I |
| Picture and Specialty Windows - 1 ³ /s" Flange Setback, 1" Flange Setback, No Flange, Insert Frames | 77% | 0.72 | 0.63 | 146 | 27% | 40% | 42% | 46°I |
| Gliding Patio Doors | 77% | 0.72 | 0.63 | 146 | 27% | 40% | 42% | 46°l |
| Patio Door Sidelights and Transoms | 77% | 0.72 | 0.63 | 146 | 27% | 40% | 42% | 46°I |
| Clear Dual-Pane | | | | | | | | |
| Casement, Awning, Single-Hung, Gliding and Transom Windows (all frames types) | 82% | 0.89 | 0.78 | 186 | 58% | 61% | 39% | 44° |
| Picture and Specialty Windows - Flush Fin Frame | 82% | 0.89 | 0.78 | 186 | 58% | 61% | 39% | 44° |
| Picture and Specialty Windows - 1 ³ / ₈ " Flange Setback, 1" Flange Setback, No Flange, Insert Frames | 82% | 0.89 | 0.78 | 186 | 58% | 61% | 39% | 44°I |
| Gliding Patio Doors | 82% | 0.89 | 0.78 | 186 | 58% | 61% | 39% | 44°I |
| Patio Door Sidelights and Transoms | 82% | 0.89 | 0.78 | 186 | 58% | 61% | 39% | 44°I |

^{*}Based on NFRC testing/simulation conditions using Windows v7.4.6.0 and NFRC validated spectral data. 0°F outside temperature, 70°F inside temperature and a 15 mph wind. 1) Visible Transmittance (VT) measures how much light comes through the glass. The higher the value, from 0 to 1, the more daylight the glass lets in. Visible Transmittance is measured over the 380 to 760 nanometer portion of the solar spectrum. 2) Shading Coefficient (SC) defines the amount of heat gain through the glass compared to a single lite of clear 1/s" (3) glass. 3) Solar Heat Gain Coefficient (SHGC) defines the fraction of solar radiation admitted through the glass directly transmitted, as well as absorbed and subsequently released inward. The lower the value, the less heat is transmitted through the product. 4) Relative Heat Gain (RHG) is the amount of heat gain through a glazing incorporating U-Factor and Solar Heat Gain Coefficient. 5) Transmission Ultra-Violet Energy (Two). The transmission of short-wave energy in the 300-380 nanometer portion of the solar spectrum. The energy can cause fabric fading. 6) Transmission Damage Function (Tdw). The transmission of UV and visible light energy in the 300-600 nanometer portion of the solar spectrum. The value includes both the UV and visible light energy that can cause fabric fading. This rating has also been referred to as the Krochmann Damage Function. This rating better predicts fading potential than UV transmission alone. The lower the Damage Function rating, the less transmission of short-wave energy through the glass that can potentially cause fabric fading. Fabric type is also a key component of fading potential. 7) Percent relative humidity before condensation occurs at the center of glass, taken using center of glass temperature. 8) Inside glass surface temperatures are taken at the center of glass.

^{*}This data is accurate as of November 2023. Due to ongoing product changes, updated test results or new industry standards, this data may change over time. Contact your Andersen supplier for current performance information or upgrade options.

[•] Contact your Andersen supplier for center of glass performance data on windows with patterned glass, tempered glass and products ordered with capillary breather tubes.
• Windows with flush fin frame are available in select Southwestern states including Arizona, California, Nevada, New Mexico and Utah. Limited configuration availability. See your Andersen supplier for more information.

PRODUCT PERFORMANCE

NFRC Certified Total Unit Performance

For current performance information, please visit andersenwindows.com.

| Andersen® Product | High-Pe | erformance Dual-Pane Glass Type | U-Factor ¹ | SHGC ² | VT ³ |
|--------------------------------|---------------------------------|--|-----------------------|-------------------|-----------------|
| | | Without Grilles | 0.28 | 0.28 | 0.48 |
| | ų. | Simulated Divided Light Grilles | 0.28 | 0.25 | 0.43 |
| | Low-E | Finelight™ Grilles | 0.28 | 0.25 | 0.43 |
| | | Finelight With Exterior Applied Grilles | - | - | - 0.40 |
| | | Full Divided Light Grilles Without Grilles | 0.29 | 0.25 | 0.43 |
| | ** | Simulated Divided Light Grilles | 0.24 | 0.27 | 0.47 |
| | Low-E HeatLoc | Finelight Grilles | 0.24 | 0.25 | 0.42 |
| | Low-E w/HeatLock* | Finelight With Exterior Applied Grilles | - | - | - |
| | | Full Divided Light Grilles | 0.26 | 0.25 | 0.42 |
| | | Without Grilles | 0.27 | 0.18 | 0.43 |
| | ω ² E | Simulated Divided Light Grilles | 0.27 | 0.17 | 0.39 |
| | Low-E SmartSun [™] | Finelight Grilles | 0.27 | 0.17 | 0.39 |
| 400.0 | | Finelight With Exterior Applied Grilles | - | - | - |
| 100 Series Casement Windows | | Full Divided Light Grilles | 0.28 | 0.17 | 0.39 |
| AND-N-84 | Low-E SmartSun w/HeatLock | Without Grilles | 0.24 | 0.18 | 0.42 |
| 7110 11 04 | | Simulated Divided Light Grilles | 0.24 | 0.16 | 0.38 |
| 2.2 mm glass | | Finelight Grilles | 0.24 | 0.16 | 0.38 |
| | | Finelight With Exterior Applied Grilles Full Divided Light Grilles | 0.25 | 0.16 | 0.38 |
| | Low-E Sun | Without Grilles | 0.23 | 0.17 | 0.36 |
| | | Simulated Divided Light Grilles | 0.28 | 0.16 | 0.24 |
| | | Finelight Grilles | 0.28 | 0.16 | 0.24 |
| | | Finelight With Exterior Applied Grilles | - | - | - |
| | | Full Divided Light Grilles | 0.29 | 0.16 | 0.24 |
| | | Without Grilles | 0.28 | 0.46 | 0.53 |
| | Sun | Simulated Divided Light Grilles | 0.28 | 0.42 | 0.47 |
| | Low-E PassiveSun* | Finelight Grilles | 0.28 | 0.42 | 0.47 |
| | Pas | Finelight With Exterior Applied Grilles | - | - 0.40 | - 0.47 |
| | | Full Divided Light Grilles | 0.29 | 0.42 | 0.47 |
| | Clear Dual-Pane | Without Grilles Simulated Divided Light Grilles | 0.41 | 0.52 | 0.55 |
| | | Finelight Grilles | 0.41 | 0.48 | 0.49 |
| | | Finelight With Exterior Applied Grilles | - 0.41 | - | - 0.49 |
| | | Full Divided Light Grilles | 0.42 | 0.48 | 0.49 |
| | | Without Grilles | 0.28 | 0.28 | 0.48 |
| | LLI | Simulated Divided Light Grilles | 0.28 | 0.25 | 0.43 |
| | Low-E | Finelight™ Grilles | 0.28 | 0.25 | 0.43 |
| | | Finelight With Exterior Applied Grilles | - | - | - |
| | | Full Divided Light Grilles | 0.29 | 0.25 | 0.43 |
| | ** | Without Grilles | 0.25 | 0.27 | 0.47 |
| | Low-E w/HeatLock* | Simulated Divided Light Grilles | 0.25 | 0.25 | 0.42 |
| 100 Series Awning Windows | Low | Finelight Grilles | 0.25 | 0.25 | 0.42 |
| | /w | Finelight With Exterior Applied Grilles Full Divided Light Grilles | 0.26 | 0.25 | 0.42 |
| | | Without Grilles | 0.20 | 0.23 | 0.42 |
| | ²⊆ | Simulated Divided Light Grilles | 0.27 | 0.17 | 0.39 |
| | ow-E | Finelight Grilles | 0.27 | 0.17 | 0.39 |
| | Low-E SmartSun" | Finelight With Exterior Applied Grilles | - | - | - |
| | | Full Divided Light Grilles | 0.28 | 0.17 | 0.39 |
| | J | Without Grilles | 0.24 | 0.18 | 0.42 |
| AND-N-85 | Sun | Simulated Divided Light Grilles | 0.24 | 0.16 | 0.38 |
| 2.2 mm glass | Low-E Sun w/HeatLock | Finelight Grilles | 0.24 | 0.16 | 0.38 |
| | | Finelight With Exterior Applied Grilles | - | - | - |
| | | Full Divided Light Grilles | 0.26 | 0.16 | 0.38 |
| | | Without Grilles | 0.28 | 0.17 | 0.26 |
| | | Simulated Divided Light Grilles Finelight Grilles | 0.28 | 0.16 | 0.24 |
| | | Finelight With Exterior Applied Grilles | - | - | - |
| | | Full Divided Light Grilles | 0.29 | 0.16 | 0.24 |
| | Low-E PassiveSun* | Without Grilles | 0.28 | 0.46 | 0.53 |
| | | Simulated Divided Light Grilles | 0.28 | 0.42 | 0.47 |
| | | Finelight Grilles | 0.28 | 0.42 | 0.47 |
| | | Finelight With Exterior Applied Grilles | - | - | - |
| | | Full Divided Light Grilles | 0.29 | 0.42 | 0.47 |
| | Clear Dual-Pane | Without Grilles | 0.42 | 0.52 | 0.55 |
| | | Simulated Divided Light Grilles | 0.42 | 0.48 | 0.49 |
| | | Finelight Grilles | 0.42 | 0.48 | 0.49 |
| | | Finelight With Exterior Applied Grilles Full Divided Light Grilles | 0.42 | 0.48 | 0.49 |
| | | | | | |

| Andersen® Product | High-Pe | erformance Dual-Pane Glass Type | U-Factor ¹ | SHGC ² | VT3 |
|---|--------------------------------------|--|-----------------------|-------------------|--------|
| | | Without Grilles | 0.30 | 0.31 | 0.54 |
| | ų | Simulated Divided Light Grilles | 0.30 | 0.28 | 0.48 |
| | Low-E | Finelight™ Grilles | 0.30 | 0.28 | 0.48 |
| 100 Series Single-Hung Windows AND-N-80 2.2 mm glass | | Finelight With Exterior Applied Grilles | - | - | - |
| | | Full Divided Light Grilles | 0.31 | 0.28 | 0.48 |
| | × | Without Grilles Simulated Divided Light Grilles | 0.26 | 0.31 | 0.53 |
| | Low-E w/HearLock | Finelight Grilles | 0.26 | 0.28 0.28 | 0.47 |
| | 일꽃 | Finelight With Exterior Applied Grilles | - | - | - |
| | * | Full Divided Light Grilles | 0.28 | 0.28 | 0.47 |
| | Low-E SmartSun" | Without Grilles | 0.29 | 0.21 | 0.49 |
| | | Simulated Divided Light Grilles | 0.29 | 0.19 | 0.43 |
| | | Finelight Grilles | 0.29 | 0.19 | 0.43 |
| | | Finelight With Exterior Applied Grilles | - | - | - |
| | | Full Divided Light Grilles | 0.31 | 0.19 | 0.43 |
| | Low-E SmartSun w/HeatLock | Without Grilles | 0.25 | 0.20 | 0.48 |
| | | Simulated Divided Light Grilles | 0.25 | 0.18 | 0.42 |
| | | Finelight Grilles | 0.25 | 0.18 | 0.42 |
| | | Finelight With Exterior Applied Grilles Full Divided Light Grilles | 0.28 | 0.18 | 0.42 |
| | | Without Grilles | 0.28 | 0.18 | 0.42 |
| | | Simulated Divided Light Grilles | 0.30 | 0.19 | 0.30 |
| | -ow-E Sun | Finelight Grilles | 0.30 | 0.17 | 0.27 |
| | lo S | Finelight With Exterior Applied Grilles | - | - | |
| | | Full Divided Light Grilles | 0.32 | 0.17 | 0.27 |
| | Clear Low-E Dual-Pane PassiveSun* | Without Grilles | 0.31 | 0.52 | 0.60 |
| | | Simulated Divided Light Grilles | 0.31 | 0.47 | 0.53 |
| | | Finelight Grilles | 0.31 | 0.47 | 0.53 |
| | | Finelight With Exterior Applied Grilles | - | - 0.47 | - 0.50 |
| | | Full Divided Light Grilles | 0.32 | 0.47 | 0.53 |
| | | Without Grilles | 0.46 | 0.59 | 0.62 |
| | | Simulated Divided Light Grilles Finelight Grilles | 0.46 | 0.53 | 0.55 |
| | | Finelight With Exterior Applied Grilles | - | - | - |
| | | Full Divided Light Grilles | 0.47 | 0.53 | 0.55 |
| | Low-E | Without Grilles | 0.30 | 0.31 | 0.54 |
| | | Simulated Divided Light Grilles | 0.30 | 0.28 | 0.48 |
| | | Finelight™ Grilles | 0.30 | 0.28 | 0.48 |
| | | Finelight With Exterior Applied Grilles | - | - | - |
| | | Full Divided Light Grilles | 0.31 | 0.28 | 0.48 |
| 100 Series Gliding Windows | Low-E w/HeatLock* | Without Grilles | 0.26 | 0.31 | 0.53 |
| | | Simulated Divided Light Grilles | 0.26 | 0.28 | 0.47 |
| | | Finelight Grilles | 0.26 | 0.28 | 0.47 |
| | | Finelight With Exterior Applied Grilles Full Divided Light Grilles | 0.28 | 0.28 | 0.47 |
| | Low-E SmartSun" | Without Grilles | 0.28 | 0.28 | 0.47 |
| | | Simulated Divided Light Grilles | 0.29 | 0.19 | 0.43 |
| | | Finelight Grilles | 0.29 | 0.19 | 0.43 |
| | | Finelight With Exterior Applied Grilles | - | - | - |
| | | Full Divided Light Grilles | 0.31 | 0.19 | 0.43 |
| | Low-E SmartSun w/HeatLock | Without Grilles | 0.26 | 0.20 | 0.48 |
| ND-N-81 | | Simulated Divided Light Grilles | 0.26 | 0.18 | 0.42 |
| 2.2 mm glass | | Finelight Grilles | 0.26 | 0.18 | 0.42 |
| | | Finelight With Exterior Applied Grilles | - | - | - |
| | _ | Full Divided Light Grilles | 0.28 | 0.18 | 0.42 |
| | Low-E Sun | Without Grilles | 0.30 | 0.19 | 0.30 |
| | | Simulated Divided Light Grilles Finelight Grilles | 0.30 | 0.17 | 0.27 |
| | | Finelight With Exterior Applied Grilles | - | - | - 0.27 |
| | | Full Divided Light Grilles | 0.32 | 0.17 | 0.27 |
| | Low-E PassiveSun* | Without Grilles | 0.31 | 0.52 | 0.60 |
| | | Simulated Divided Light Grilles | 0.31 | 0.47 | 0.53 |
| | | Finelight Grilles | 0.31 | 0.47 | 0.53 |
| | | Finelight With Exterior Applied Grilles | - | - | - |
| | | Full Divided Light Grilles | 0.32 | 0.47 | 0.53 |
| | Clear Dual-Pane | Without Grilles | 0.46 | 0.59 | 0.62 |
| | | Simulated Divided Light Grilles | 0.46 | 0.53 | 0.55 |
| | | Finelight Grilles | 0.46 | 0.53 | 0.55 |
| | | Finelight With Exterior Applied Grilles Full Divided Light Grilles | 0.47 | 0.53 | 0.55 |
| | | | 114/ | | |

1) U-Factor defines the amount of heat loss through the total unit in BTU/hr-ft²-°F. The lower the value, the less heat is lost through the entire product. Window values represent non-tempered glass. Use of tempered glass can increase U-Factor ratings. See andersenwindows.com/nfrc for specific performance values. Door values represent tempered glass. 2) Solar Heat Gain Coefficient (SHGC) defines the fraction of solar radiation admitted through the glass directly transmitted, as well as absorbed and subsequently released inward. The lower the value, the less heat is transmitted through the product. 3) Visible Transmittance (VT) measures how much light comes through a product (glass and frame). The higher the value, from 0 to 1, the more daylight the product lets in over the product's total unit area. Visible light transmittance is measured over the 380 to 760 nanometer portion of the solar spectrum.

• NFRC ratings are based on modeling by a third-party agency as validated by an independent test lab in compliance with NFRC program and procedural requirements.

continued on next page

[•]This data is accurate as of August 2023. Due to ongoing product changes, updated test results, or new industry standards or requirements, this data may change over time. Ratings are for sizes

specified by NFRC for testing and certification. Ratings may vary depending on unit size, use of tempered glass, different grille options, glass for high altitudes, etc.

*Values are for single units with given pane thickness and 3/4" (19 mm) grilles for windows and 1" (25 mm) grilles for door products.



Andersen® windows and patio doors can make significant contributions to the success of sustainable design strategies

As a charter member of the U.S. Green Building Council, we're active supporters of certified green buildings. Our products can help customers in pursuing green building programs, such as Leadership in Energy and Environmental Design (LEED®), the National Green Building Standard, Green Globes, GreenStar and more. Below is an overview of how our products may assist project teams with pursuing LEED v4 or the NAHB National Green Building Standard rating systems. More detailed credit summaries, as well as information about how Andersen products can support earlier versions of LEED certification (e.g., LEED v3 or LEED 2008), are available at andersenwindows.com.

LEED V4 FOR BUILDING DESIGN AND CONSTRUCTION: NEW CONSTRUCTION AND MAJOR RENOVATIONS

Integrative Process Credit:

Energy & Atmosphere

- Minimum energy performance prerequisite
- Optimize energy performance credit
- Renewable energy production credit
- Green power and carbon offsets credit

Materials & Resources

- Construction and demolition waste management planning credit
- Building product disclosure and optimization sourcing of raw materials credit
- Construction and demolition waste management credit

Indoor Environmental Quality

- Minimum indoor air quality performance prerequisite
- Minimum acoustic performance prerequisite – schools
- Enhanced indoor air quality strategies credit
- Low-emitting materials credit
- Thermal comfort credit
- Daylight credit
- Quality views credit
- Acoustic performance credit (option 2)

LEED V4 FOR BUILDING DESIGN AND CONSTRUCTION: HOMES AND MULTI-FAMILY MIDRISES

Energy & Atmosphere

- Minimum energy performance prerequisite
- Education of the homeowner, tenant or building prerequisite
- Annual energy use credit
- Building orientation for passive solar credit
- Air infiltration credit
- Windows credit

Materials & Resources

- Durability management prerequisite
- Environmentally preferable products credit
- Construction waste management credit

Indoor Environmental Quality

- Ventilation prerequisite
- Low-emitting products credit

ANSI ICC/ASHRAE 700-2015 NATIONAL GREEN BUILDING STANDARD

NGBS section numbers are referenced in parentheses.

Resource Efficiency

- Prefinished materials (601.7)
- Flashing (602.12)
- Exterior doors, including storm doors (602.1.10)
- Recycled construction materials (605.3)
- Bio-based products (606.1)
- Wood-based products (606.2)
- Manufacturer's environmental management system concepts (611.1)

Energy Efficiency

- Mandatory requirements (701.1)
- Building thermal envelope air sealing (701.4.3.1)
- Multi-family air leakage alternative (701.4.3.3)
- Fenestration air leakage (701.4.3.4)
- ICC IECC analysis (702.2.1)
- Energy performance analysis (702.2.2)
- UA improvement (703.2.1)
- Fenestration (703.2.5)
- Sun-tempered design (703.7.1)
- Passive cooling design (703.7.3)
- Passive solar heating design (703.7.4)

Indoor Environmental Quality

- Wood materials (901.4)
- Interior architectural coatings (901.9)
- Interior adhesives & sealants (901.9)
- Operable windows & sliding glass doors (902.1.5)

Energy Efficient

- Homeowner's manual (1001.1)
- Building construction manual (1002.1)