

# WINDOWS



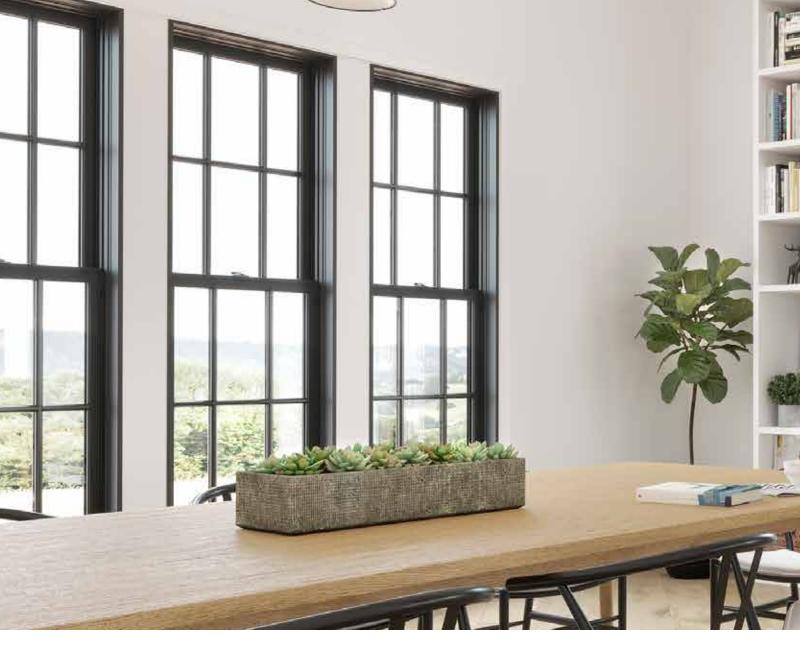




For 30 years, Grand Banks has been helping homeowners and professionals bring their visions to life. Finding the right products can be overwhelming, but our dedicated team of experts is here to guide you. We want to help make your dreams a reality.

We thoroughly vet all of our products to ensure they are top quality. We don't sell anything we wouldn't put in our own homes. Good design takes time, and we will be with you through the whole process. From the first quote through the finished project and beyond, we are by your side.





More than any other product, windows can help brighten and define a space. By letting in light and air, windows make spaces feel bigger and brighter. Like many elements in building or renovating your home, the possibilities are seemingly endless. Navigating all these options to find what you want can be a challenge, but the outcome is worth it. To help you choose the right windows for your home, we will ask you:

- What is the architectural style of your home? It's important to match your style to ensure nothing looks or feels out of place.
- How will you utilize the space? Keep in mind how you'll operate in the room you choose a window for, so you can find the best option.
- What is the orientation of the sun, and how much light hits the room? Your window needs will be different depending on if it's for a bedroom, living room or other.
- How much privacy do you want in the interior space? If the window is facing a street or neighbor, consider options to protect your privacy.
- Could this opening also serve as a door? Patio doors or other glass wall systems may be an option.



# Window Types

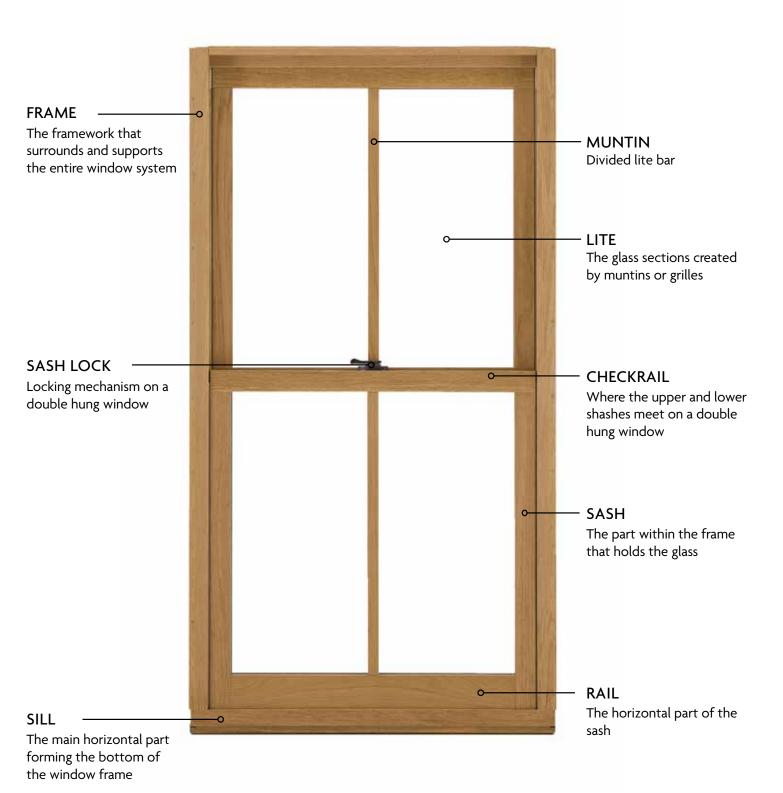
The first choice to make when choosing windows for your home is deciding whether they are going to be New Construction or Replacement Windows.

**New Construction** windows mean that you are getting new window frames and sills. You may be creating a new window opening, building a new home or replacing rotted frames. They do require some exterior work to your home. This process is more labor-intensive and more likely to interfere with your home life. However, with New Construction, you can choose any style or size you like.

**Replacement Windows** allow you to replace only the window, but it's only an option if the frame and sill are in good condition. Replacement Windows allow you to change your window style, but not the size. These often result in a slightly smaller glass size.



## **Window Parts**



# Window Styles

## Double + Single Hung

These are the more traditional windows common in New England. Single hung windows have one operable sash, the bottom, to open or close the window. On double hung windows, both sashes operate for more versatility in your ventilation.





## **Awning**

Awning windows are hinged at the top and open vertically. They offer a convenient option for hard to reach places in need of extra ventilation or light. Their vertical operation keeps your home protected from the rain.

## Casement

Casement windows are hinged on the side and open horizontally. The entire sash swings out to provide unobstructed views. When closed, all sides of the casement are sealed into the sash, offering increased security and insulation.





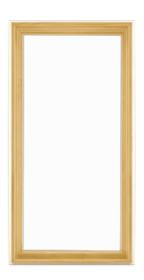
## Sliding

Sliding windows open horizontally, but don't swing out like a casement. Since they don't swing out, they are a great option for spaces that may open to a deck or walkway. Sliders provide great unobstructed views and fit well in wide spaces.



## **Picture**

Picture or Fixed windows are non-operable. The window and frame hang much like a picture on a wall, and do not open. Some, such as the Marvin Venting Picture, do come with a hidden screen system for passive airflow.





## **Transom**

Transom windows are located higher up on walls to let in light and air. They are often hard to reach and may or may not be operable.

## Bay

Bay windows can be a single window or made of several windows joined together. A bay window protrudes from the house, offering expansive views, and can provide additional seating.





## Hopper

Hopper windows are hinged at the bottom and open vertically inward. They are most commonly found in basements or on lower levels to provide airflow in tight spaces.



## Tilt + Turn

Tilt + Turn windows are a European-style window that provide a traditional look with modern function. It swings in like a door or the top of the sash tilts into the room for ventilation. One handle controls both operations.

## Skylight

Skylights are windows in the roof that let in light and help with ventilation. They are great for stargazing or maintaining privacy if you live in a crowded area.



## **Custom Windows**

In addition to this list of commonly used window styles, there are other options. We can build polygons, arches, round windows, or any combination to meet the exact specifications for your space. This flexibility is helpful if you are trying to match existing architectural or historical styles.

## **Commercial Windows**

There are a wide array of window solutions for commercial properties. Glass thickness, structural ratings, hardware and other commercial options are available from many of our partners. Please let us know what you need.



# **Window Materials**

## Vinyl

Vinyl windows are a budget-friendly option. They offer energy efficiency and require little maintenance. These have come a long way from what they once were.





## **Fiberglass**

Fiberglass is more durable and requires less maintenance than wood. Since this material is stronger, it results in thinner window frames and a larger glass surface area for bigger views. Their low thermal expansion rate and energy efficiency make fiberglass an excellent option for the extremes of New England weather.

## Wood

Wood windows are energy-efficient, beautiful, and durable with the right maintenance. They need to be painted or stained. Wood windows are fully customizable. Like all wood, they are subject to weather conditions and may expand or contract due to temperature and humidity. Wood windows are available in many different species, which offer various benefits. Please speak to one of our team members to learn more about what different species have to offer.





## Steel

Steel windows are an architect-favorite because of their narrow sightlines and style. The strength of steel allows for the largest glass size with the smallest frames, and the biggest views.





## Window Glass

Even the glass in your windows comes with choices. Our team can help you find the best option to meet your needs. These are some of the most common types:

#### Low-E

This coating is microscopically thin and virtually invisible. It works by reflecting the infrared and ultraviolet rays of the sun. Metallic oxides or metal layers are deposited directly on the glass surface and can lower the U-factor, or how fast heat passes through. There are different coatings available for high, moderate and low solar gain.

## Double v Single Pane

Today most windows are at least double pane and sometimes more. Double pane windows have better insulation properties. They are often filled with a gas, like argon, for improved insulation. Single pane windows used to be the standard, so if you live in an older home, it may still have single pane windows. Single pane windows often have a storm window for another layer of protection and insulation.

#### **Tempered**

Tempered glass is hardened by a heat or chemical treatment to increase its strength. If it does break, it is designed to break into tiny pieces and not large jagged chunks, making it safer and easier to clean up. Tempered glass is often used in stairways and other areas where people can potentially fall. Please consult the local buildings codes to see if and where you may be required to use tempered glass.

## Screens

Screens help you make the most of your windows. They keep bugs and debris at bay while you let fresh air into your home. If your home is full of kids and pets, you may want to consider choosing a thicker mesh for more durability.

#### **Screen Options:**

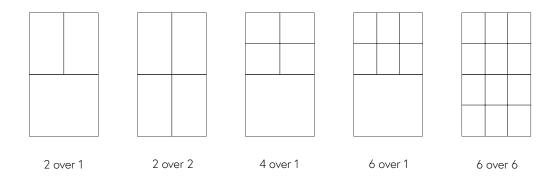
- Mesh thickness + material
- Color
- Rollout, swing, or removable



## **Divided Lites**

When choosing your window, you have several options for divided lites. You might hear these informally referred to as "criss-cross lines" in a window or a "window with squares." These grilles or muntins are what form the divided lites. Lites are the grid-like patterns in the window.

The number of lites you choose, and the patterns they make, in your window are a matter of choice and style. You can have as few or as many as you like. Having a denser pattern can simulate lots of individual glass panes, typical of older, colonial-style homes. Below you'll see some of the most common lite patterns in windows.



# **Grille Styles:**



#### **GBG - Grilles Between Glass**

Grilles are permanently installed between the glass panes for low-maintenance and easy cleaning.



#### **SDL - Simulated Divided Lites**

SDL bars are an energy-efficient way to create the look of divided lites. They permanently adhere to both sides of the glass.



#### SDLS - Simulated Divided Lites w/Spacer Bar

A Spacer Bar is paired with SDL bars on the exterior of the glass, creating an even closer match to the Authentic Divided Lite look.

# Window Hardware

Your windows will come with hardware. The hardware you get will depend on your window style. Hardware is available in varying finishes.







# Window Glossary

### **Sash** = The part of the window that moves

When you push a window up or out to open it, you're moving the sash. Running up and down each side of the glass is the stile. The part that runs across the top or bottom is the rail. In your replacement conversations, a professional might bring up narrow stiles and rails as a selling point. Less width means more room for the glass and more daylight.

## Sash Limiter or Window Opening Control Device = safety device

By restricting how far a window can open, you can increase the safety of your home. If you have small children or if your local code requires it, a sash limiter or window opening control device may be necessary on the upper floors. A sash limiter means that your sash can only open about 4 inches, helping prevent falls through open windows. A window opening control device achieves the same goal but has a two-step release process that allows the sash to open fully. This is useful if you need a window to also function as an exit point or egress. Check with your window professional on local requirements and your options to meet these safety standards.

#### Frame = structure to put the sash in

The window frame holds the window sashes. The frame provides structure and support. The bottom of the frame is called a sill, the top is a header, and the sides are called jambs. When you use replacement windows, various options allow you to put a "frame within a frame" rather than stripping down to the studs.

\*Pro-tip: The frame is not to be confused with your window trim, which is placed on your wall to cover gaps and add decorative flair. The trim can always be changed later.

**Sill** = the bottom part of the window frame

**Muntins/Simulated Divided Lites** = create sections and patterns on your window glass These decorative bars are attached to glass to create the look of a grid. Please refer to the Divided Lites section for more info.

## Checkrail = the middle part of a double hung window

In a double hung window (two operable sashes that can slide up from the bottom or down from the top), the checkrail is where the two parts meet. This is where you will see your sash lock or locking hardware on the window.

\*Pro-tip: An extra-thick muntin/divided lite can be added to other window styles to mimic the classic look of a double hung. We call this a "simulated checkrail."

## **Egress** = a point of exit

An egress window is large enough, as defined by the codes in your area, to count as an entry or exit, in case of an emergency. All bedroom windows need to meet egress code. Double-check the type or size of the window you are replacing to make sure you meet current codes.



#### **Weatherstrip** = seal against water and air

Weatherstripping is a strip of resilient material that seals the tiny space between the sash and the frame to stop air from escaping and water from entering your house. Ask about what color weatherstripping is available to best match your window finish color.

### Operable Window = window that can be opened or closed

An operable window is a window that moves. They may be pushed, use a crank or have a motorized operating system.

### **Inoperable Window** = window that cannot be opened

A fixed, picture, or stationary window that does not open may be high on a wall or above another window or door. These can vary in style, including ones with a sash like an operable window, and ones that have just glass in a frame.

#### **Wash Mode** = an ingenious invention for cleaning windows

Wash mode lets you pivot our Ultimate Casement windows to easily clean the outside of the window while standing comfortably inside your home. A similar Tilt Wash Mode is included with our Ultimate Double Hung Next Generation windows.

#### **Clad** = exterior covering

Window and door parts (typically wood) are "clad" when they are covered with more weather- resistant exterior-facing material, often aluminum or fiberglass. It is important to understand the difference between these materials and what they mean for your windows' longevity and maintenance.

# **NOTES**

# **Project Tracker**

Location	Style	Material	Color	Width	Height



