



HH Windows & Doors

German engineered. American made.

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the **Vertical Pivot** window



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## Key features

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- Great for large openings
- Custom sizes and custom designs available, including large operable sash sizes
- Easy and effortless to operate: German-designed pivot hinge system allows the sash to be locked in any ventilation position
- High security and energy efficiency: double overlay construction with compression seal and German multipoint locking hardware with adjustable closing pressure
- Built to last: 2 5/8" thick, with double mortise-and-tenon joinery
- Easy to clean: the sash can be pivoted 180 degrees (turned inside out)
- Excellent two-way ventilation: bad air is exhausted out the top while fresh air flows in at the bottom
- Unlimited finishing options
- Full range of glazing options (1" dual pane, 1 3/8" triple pane)
- Made from laminated solid vertical grain Douglas fir or other select wood species
- Easy installation due to easily removable sash

## Sizing

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The Vertical Pivot window is specifically engineered for large openings.

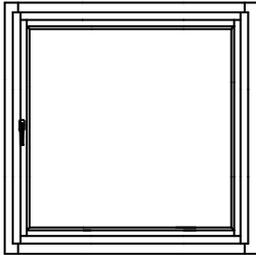
Width: 31"-69"

Height: 57"-100"

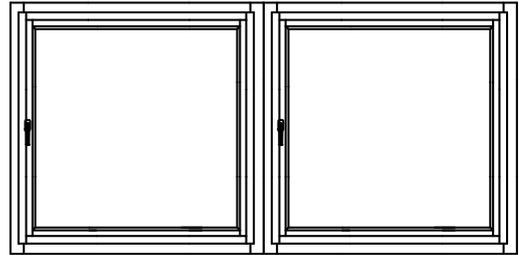
# Configurations

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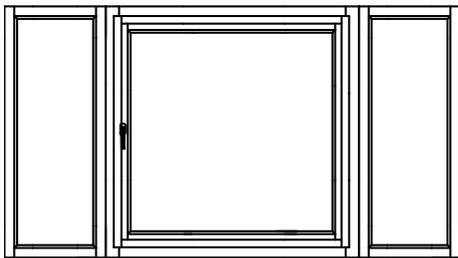
The Vertical Pivot window can be built as a single window or it can be mulled together with other windows. With numerous configurations available, the options are seemingly endless. Below are some examples:



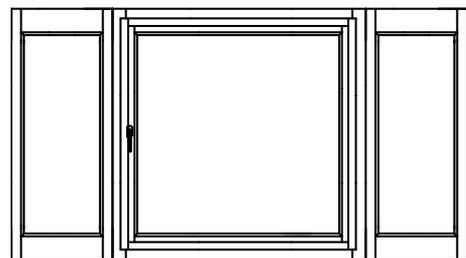
Single pivot window



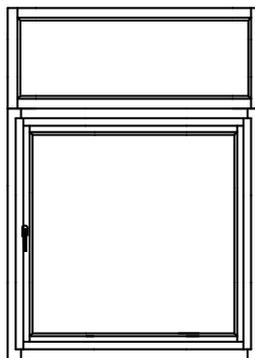
Two mulled pivot windows



Pivot window with fixed sidelites



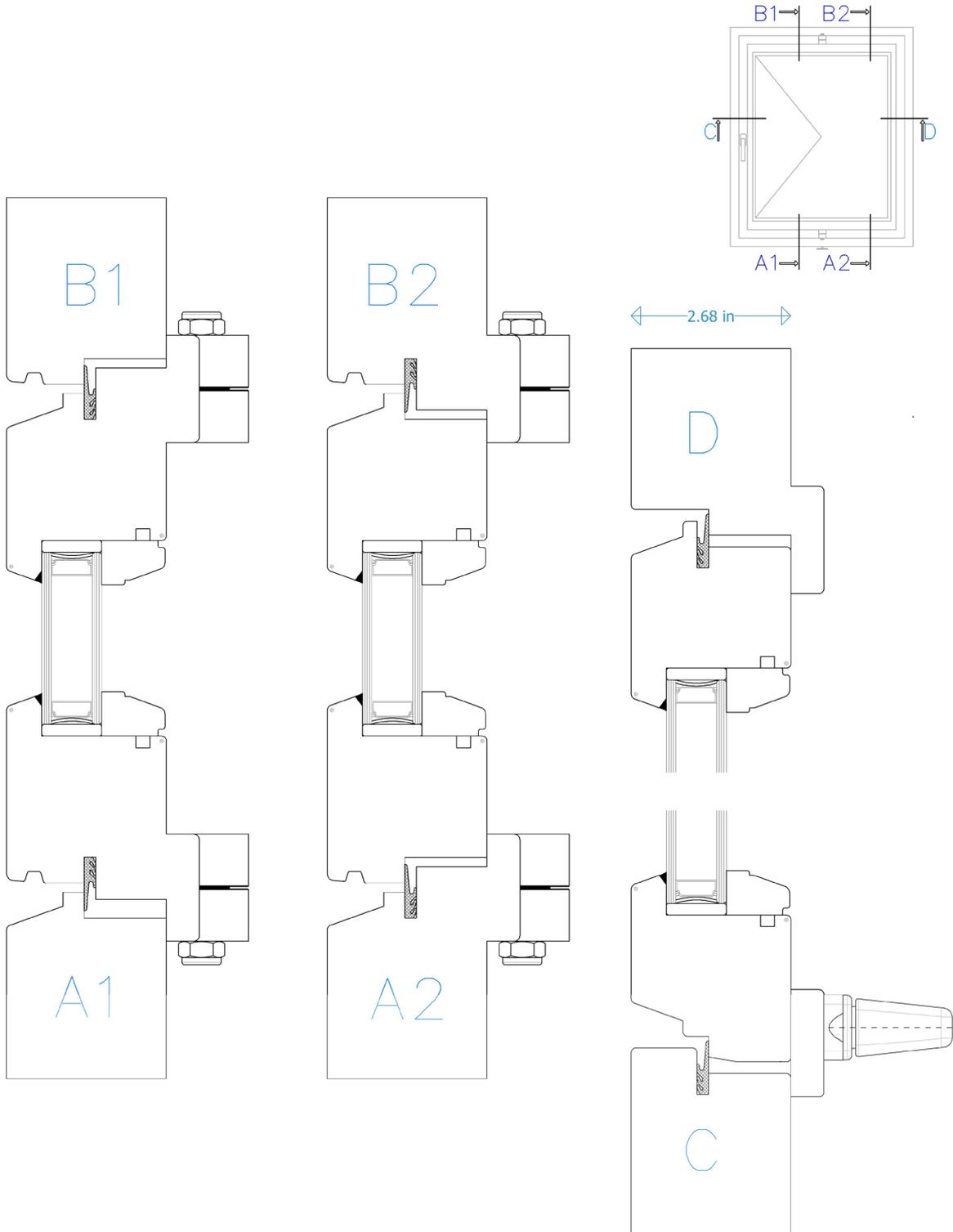
Pivot window with fixed sidelites and matching horizontal glass line



Pivot window with fixed transom

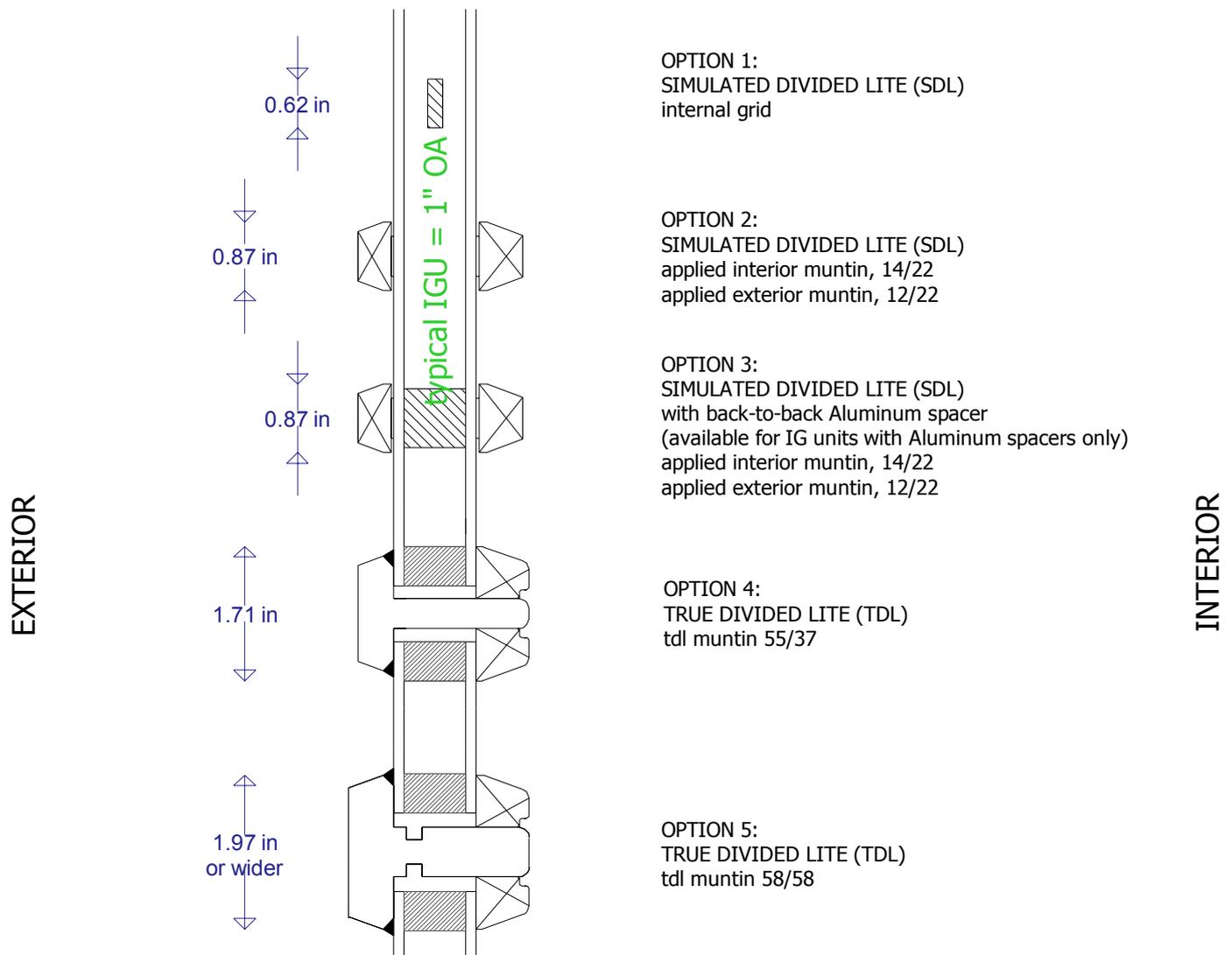
# Section drawings

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## Muntins and stops

The Vertical Pivot window can be built with a single lite or with a grid pattern. There are two ways to apply a grid pattern to the window. A Simulated Divided Lite (SDL) grid pattern contains one Insulated Glass Unit with wood muntins applied to the interior and exterior of the window (thus it does not actually divide the glass). A True Divided Lite (TDL) grid pattern consists of several Insulated Glass Units separated by TDL muntins. Note that adding a grid pattern can significantly increase the price of the window. Consider therefore using a simple grid pattern or no grid pattern at all to enjoy an uninterrupted view.



# Exterior trim

## Exterior trim options

1. **Exterior jamb extensions:** Jamb extensions project outward from the edges of the window frame, creating a transition between the window and the casing. The jamb extension depth depends on how far back into the wall the window sits. If the window is recessed into the wall, the jamb extension depth must be greater in order to extend up to or past the exterior of the wall.

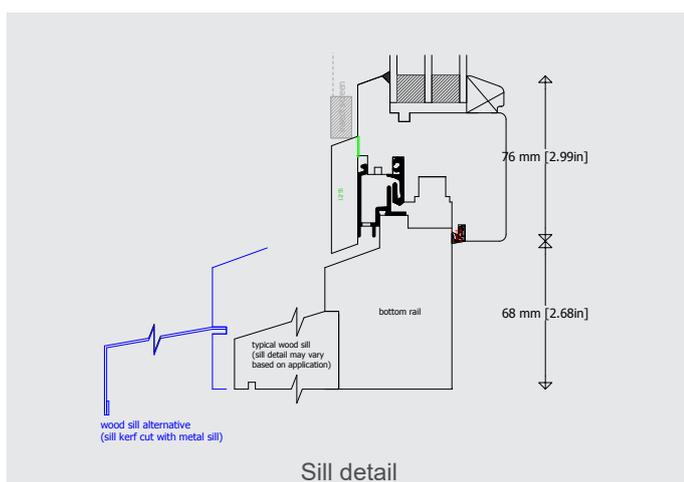
2. **Exterior sill:** The exterior sill provides a path for water to follow away from the window itself. HH Windows & Doors manufactures both wood and metal sills. The sill depth depends on how far back into the wall the window sits. If the window is recessed into the wall, the sill depth must be greater in order to extend past the exterior of the wall.

3. **Sill rabbet cut:** The sill rabbet cut is a notch cut into the bottom rail of the window frame to house the sill. Even if you choose to attach your own sills, a rabbet cut is a good weatherproofing detail.



Exterior view

1. Exterior jamb extension
2. Window frame
3. Window sash
4. Siding
5. Exterior sill



Sill detail



Exterior view

## Interior trim

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### Interior trim options

**1. Interior jamb extensions:** Interior jamb extensions project inward from the edges of the window frame, creating a transition between the window and the interior casing. The jamb extension depth depends on how far back into the wall the window sits. If the window is recessed into the wall, the jamb extension depth must be greater in order to extend up to or past the interior of the wall.

1. Window Sash
  2. Jamb extension
  3. Interior casing
  4. Interior wall
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Interior view

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### Not available

The following trim is not offered by HH Windows & Doors:

1. Exterior casings
2. Interior casings
3. Stool (interior sill)



## Glazing

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HH Windows & Doors offers a wide selection of glazing options, and can tailor to virtually any U-value.

### Standard glazing

Cardinal dual strength annealed glass  
2 panes  
1" overall thickness  
LoE<sup>2</sup>180 / Clear  
Argon gas fill  
Warm edge spacer

### 2 pane LoE coatings

LoE<sup>2</sup>180  
LoE<sup>2</sup>240  
LoE<sup>2</sup>270  
LoE<sup>2</sup>272  
LoE<sup>2</sup>366  
LoE<sup>2</sup>i81

### Further glazing options

1 pane  
3 panes  
Safety glass (laminated or tempered)  
Customized overall thickness  
Breather tube  
5/32", 3/16", 1/4" pane thickness  
Obscure glass  
Tinted glass  
Art glass

### 3 pane LoE coatings

1 LoE<sup>2</sup>: 180, 240, 270, 272, 366  
2 LoE<sup>2</sup> combo: 180, 240, 270, 272, 366  
3 LoE<sup>2</sup> combo: 180, 240, 270, 272, 366, i81

# Handles

The Vertical Pivot window comes with a RotoLine handle, in either silver or medium bronze, without the Roto logo. The RotoLine handle is a modern and elegant handle manufactured in Germany by the founders of the tilt-turn hardware system.



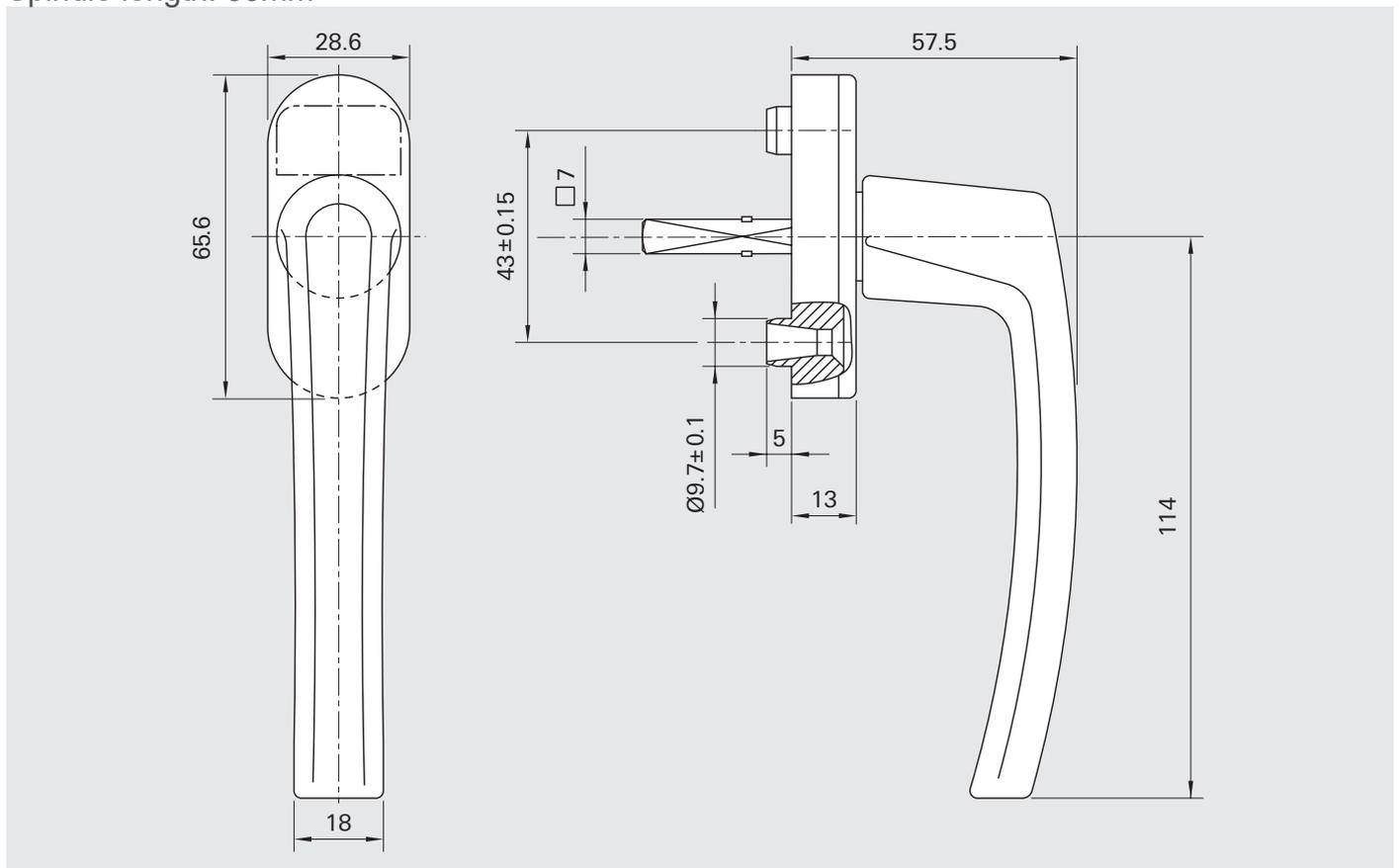
R 01.1 anodised silver, F1



R 05.3 anodised medium bronze, C33

While HH Windows & Doors carries the Rotoline handle system, there are endless handle options available which can be purchased independent of HH Windows & Doors using the specifications provided below.

Spindle length: 30mm



# Finishes

HH Windows & Doors offers a variety of finish options. Because of their high durability and superior performance, HH Windows & Doors uses penetrating finishes as opposed to film forming finishes. The result is an ultra low maintenance product that will last a lifetime.

## 1

### Solid stain

#### Sikkens Rubbol

Rubbol is a water based, pigmented, solid color stain that looks just like paint. Rubbol can be custom matched to any color.

#### Advantages

Whereas paint forms a protective barrier over the wood, the Rubbol solid stain penetrates the wood, allowing it to expand and contract without cracking or peeling. Most importantly, the Rubbol solid stain does not trap moisture, allowing the wood to breathe.

#### The result

A far superior, durable finish with minimal maintenance required.

**Rating:** High exterior wood protection

**Standard Rubbol colors:**  
 Rubbol can be custom matched to any solid color and is not limited to these colors.



2

**Semi-transparent stain**

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**Sikkens Cetol**

Cetol is a semi-transparent exterior finish specially formulated to provide a water resistant coating. A rich natural color and a unique alkyd/ oil layer protects against rain, snow and UV rays. Available in 8 natural, wood-toned colors.

**Advantages**

Maintains the natural beauty of wood.

**The result**

Superior UV protection, highly transparent, water repellent, weather resistant, flexible, breathable

**Rating:** Medium exterior wood protection

**Cetol colors:**

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3

**Clear finish**

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**Clear Polyurethane (water based)**

Engineered to serve as both a sealer and top coat system, OmniGold provides outstanding durability for a clear finish. OmniGold is a water based polyurethane finish with a built in UV blocker, and is environmentally safe and ecologically balanced.

**Rating:** Low exterior wood protection

## Finish configurations

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HH Windows & Doors offers three distinctive finish configurations: a uniform finish, a split finish, or no finish. Below is a description of these three finish configurations:

### 1 Uniform finish

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A uniform finish has the same finish on the interior as on the exterior.

1a.

Type: Sikkens RUBBOL solid color stain

Colors: all colors

# coats: 2

1b.

Type: Sikkens Cetol 1 + 23 semi-transparent stain

# coats: 3

### 3 No finish

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Ordering a window unfinished is not recommended and is generally done only in special cases. Our factory finish covers all surfaces and is applied prior to hardware, gasket, and glass installation.

### 2 Split finish

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A split finish has a different finish on the interior than on the exterior.

2a.

Type: Sikkens RUBBOL solid color stain (exterior), Sikkens RUBBOL solid color stain (interior)

Colors: all colors

# coats: 2

2b.

Type: Sikkens RUBBOL solid color stain (exterior), clear polyurethane (interior)

Colors: all colors

# coats: 2 exterior, 3 interior

2c.

Type: Sikkens RUBBOL solid color stain (exterior), Sikkens Cetol 1 + 23 semi-transparent stain (interior)

Colors: all colors

# coats: 2 coats exterior, 3 coats interior