



HH Windows & Doors

German engineered. American made.

the **horizontal pivot** window



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Key features

- 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 you to lock the sash 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

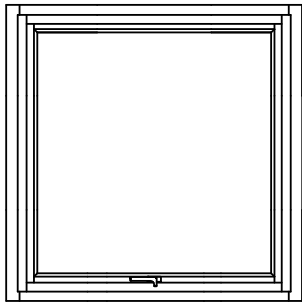
The Horizontal Pivot window is specifically engineered for large openings.

Width: 31"-123"

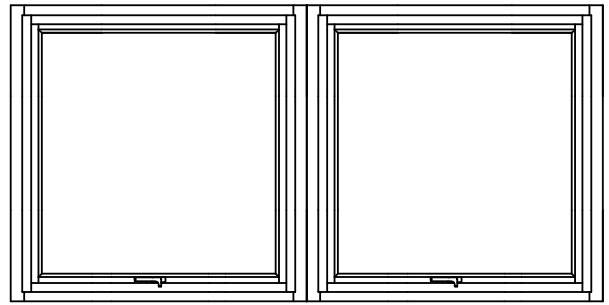
Height: 33.5"-92.5"

Configurations

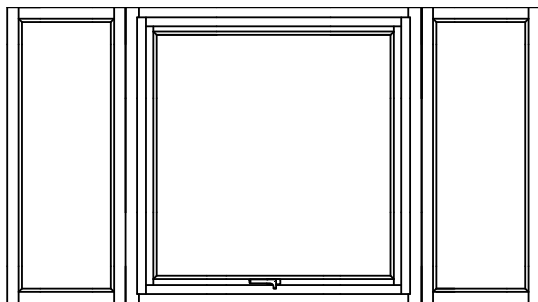
The Horizontal Pivot window can be built as a single window, or it can be mulled together with other windows. With numerous configurations available, the options are seemingly endless. Below are some examples:



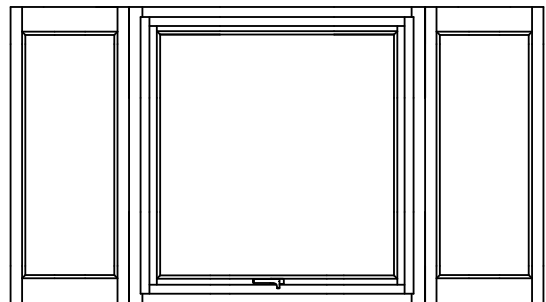
Single pivot window



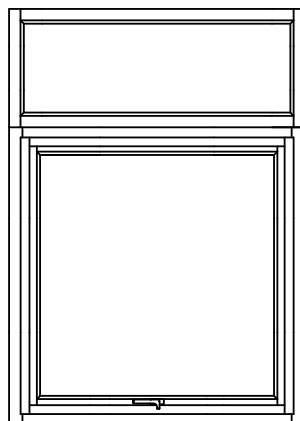
Two mulled pivot windows



Pivot window with fixed sidelites

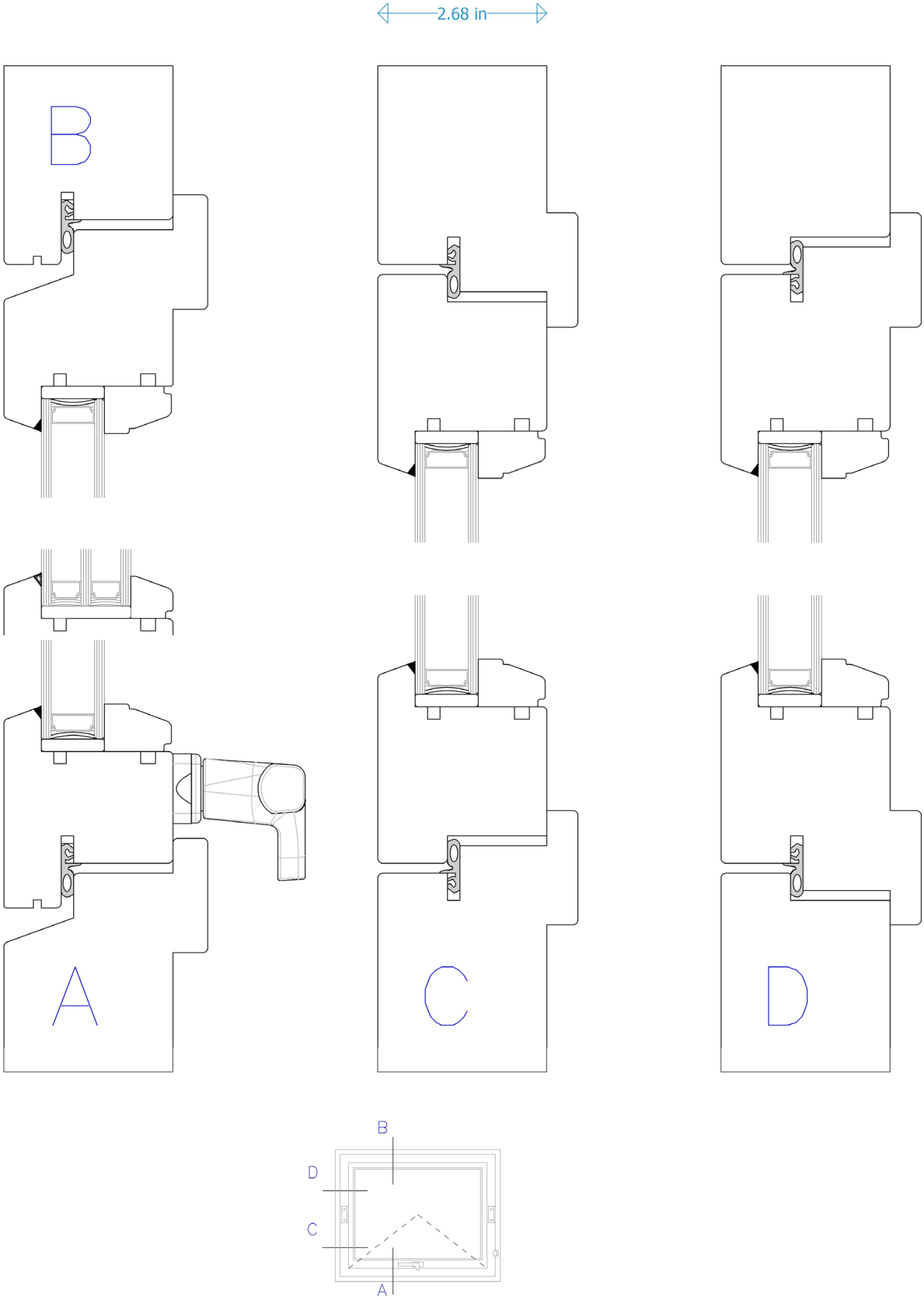


Pivot window with fixed sidelites and matching horizontal glass line



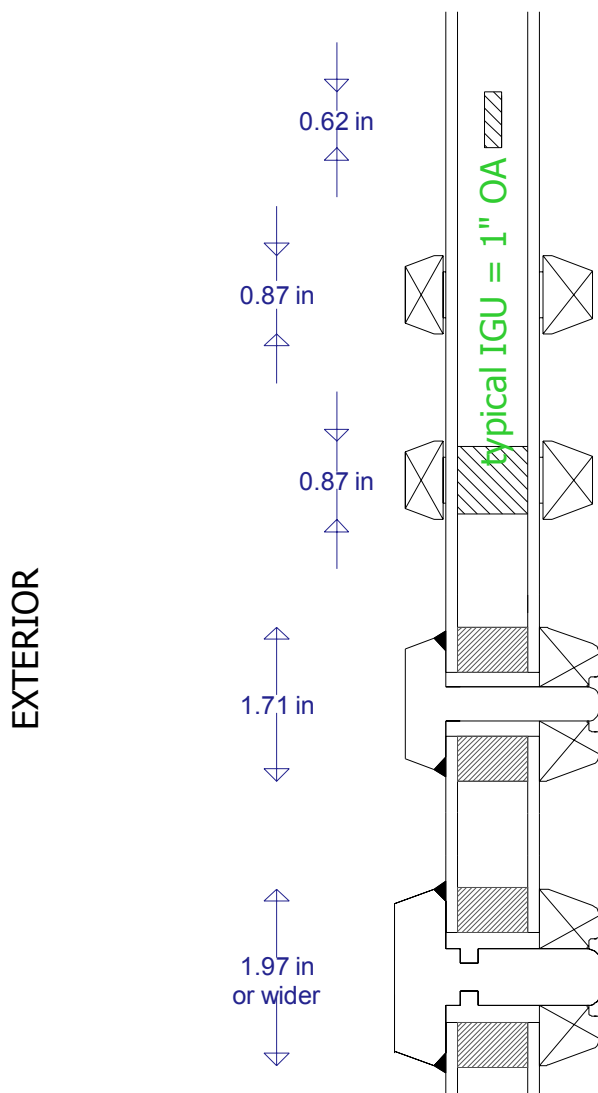
Pivot window with fixed transom

Section drawings



Muntins and stops

The Horizontal 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.



OPTION 1:
SIMULATED DIVIDED LITE (SDL)
internal grid

OPTION 2:
SIMULATED DIVIDED LITE (SDL)
applied interior muntin, 14/22
applied exterior muntin, 12/22

OPTION 3:
SIMULATED DIVIDED LITE (SDL)
with back-to-back Aluminum spacer
(available for IG units with Aluminum spacers only)
applied interior muntin, 14/22
applied exterior muntin, 12/22

OPTION 4:
TRUE DIVIDED LITE (TDL)
tdl muntin 55/37

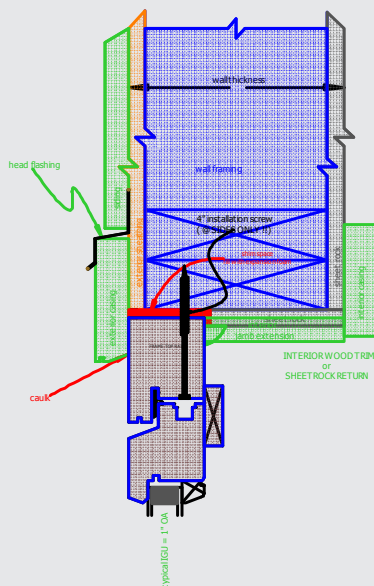
OPTION 5:
TRUE DIVIDED LITE (TDL)
tdl muntin 58/58

INTERIOR

Plane of installation

The Horizontal Pivot window can be installed flush with the wall exterior, at the wall center, or anywhere in between. The closer to the wall center that the window is installed, the better the thermal performance will be. For complete installation instructions, please contact HH Windows & Doors directly.

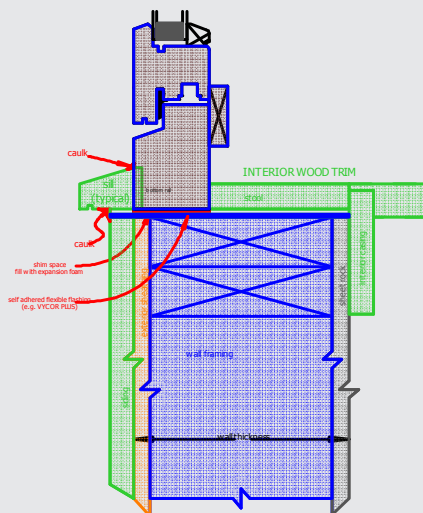
flush with wall exterior



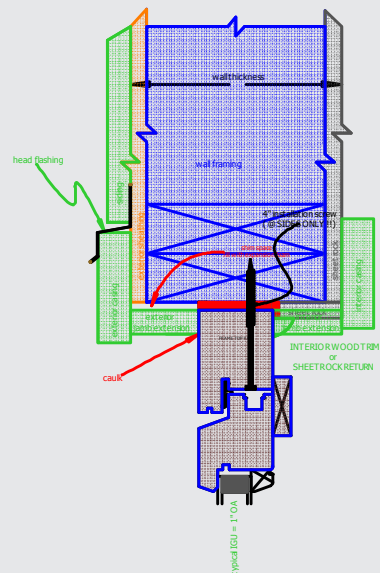
exterior

interior

HORIZONTAL PIVOT WINDOW
in wood framed wall
INSTALLED TO
WALL EXTERIOR
(typical)



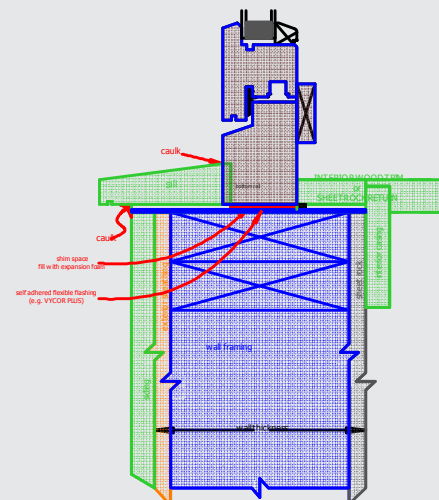
center of wall



exterior

interior

HORIZONTAL PIVOT WINDOW
in wood framed wall
INSTALLED TO
CENTER OF WALL



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.

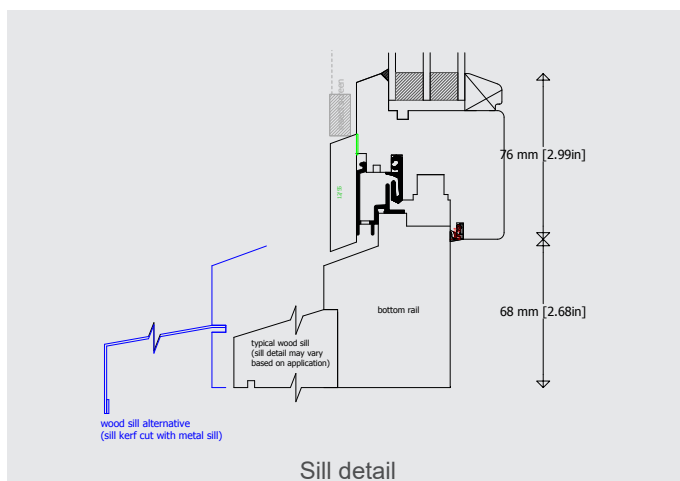
2. Exterior sill: The exterior sill provides a path for water to follow away from the window itself. HH Windows & Doors manufactures both wood and metal sills. The sill depth depends on how far back into the wall the window sits. If the window is recessed into the wall, the sill depth must be greater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



Interior trim

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
-



Interior view

Not available

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

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



Glazing

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
LoE²180 / Clear
Argon gas fill
Warm edge spacer

2 pane LoE coatings

LoE²180
LoE²240
LoE²270
LoE²272
LoE²366
LoE²i81

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 LoE²: 180, 240, 270, 272, 366
2 LoE² combo: 180, 240, 270, 272, 366
3 LoE² combo: 180, 240, 270, 272, 366, i81



Handles

The Horizontal Pivot window comes with a G-U handle, available in silver or dark bronze.



Silver



Dark Bronze

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

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

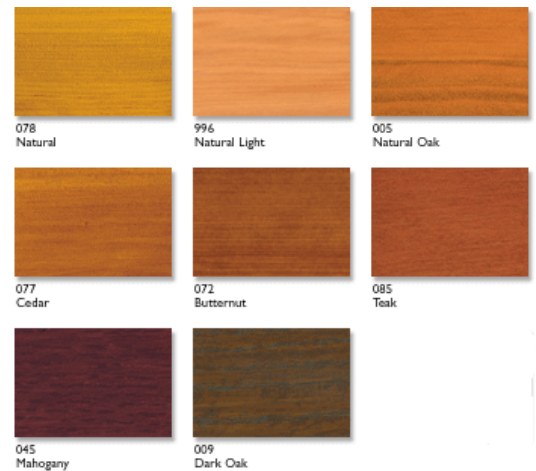
Maintains the natural beauty of wood.

The result

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

Rating: Medium exterior wood protection

Cetol colors:



3

Clear finish

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

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

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

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

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

