



HH Windows & Doors

German engineered. American made.

the **lift-slide** door



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Key features:

- Extremely large sizes available for openings over 60 ft. wide!
- Easy and effortless to operate: heavy panels glide gently with the slightest of touches
- Low threshold (wheelchair accessible)
- Custom sizes and designs including multipanel arrangements
- High security and energy efficiency due to multipoint locking hardware
- High energy efficiency due to compression weather seal on all 4 sides
- Easy installation due to click-in door hardware
- Solid construction, due to 2 3/8" thick sash and frame, with double mortise-and-tenon joinery
- Full range of glazing options
- Made from laminated solid vertical grain Douglas fir or other select wood species

Size constraints

A traditional sliding door can only accommodate panels of a certain size before putting excess stress on the weather stripping. By lifting off the track, the lift-slide door system separates sliding and locking, resulting in no abrasion on the weather stripping. Because of this, the lift-slide door can be built much larger than a traditional sliding door. Below is a summary of the size constraints:

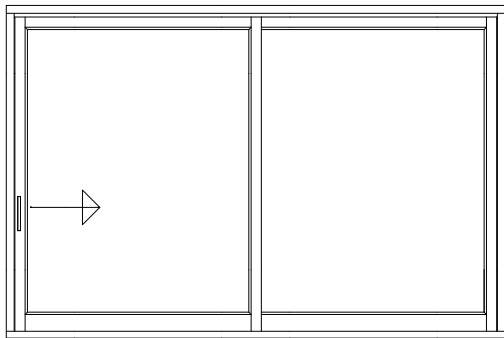
Single panel sizing:

Width: 28"-130" Height: 73"-109"

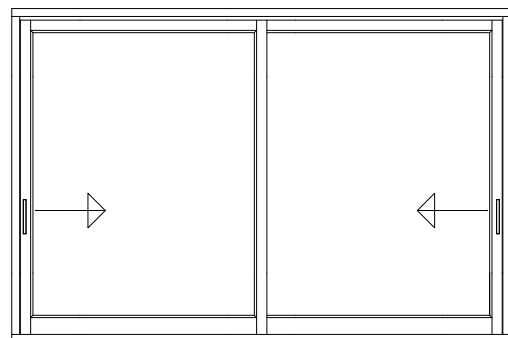


Configurations

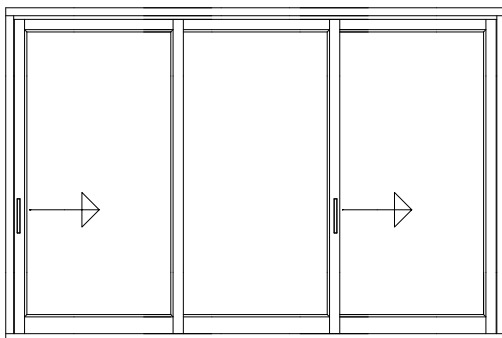
The lift-slide door can have unlimited panels and various configurations. Below is a small sample of the more popular options available.



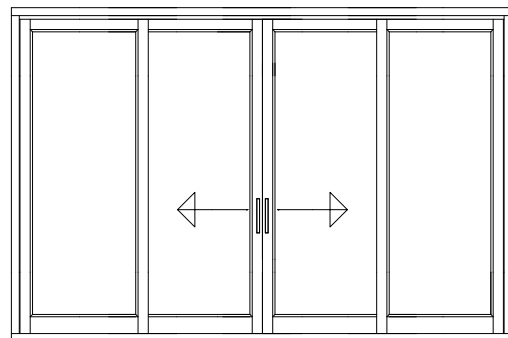
two panel lift-slide door, one
sliding panel and one fixed panel



two panel lift-slide door, two
sliding panels

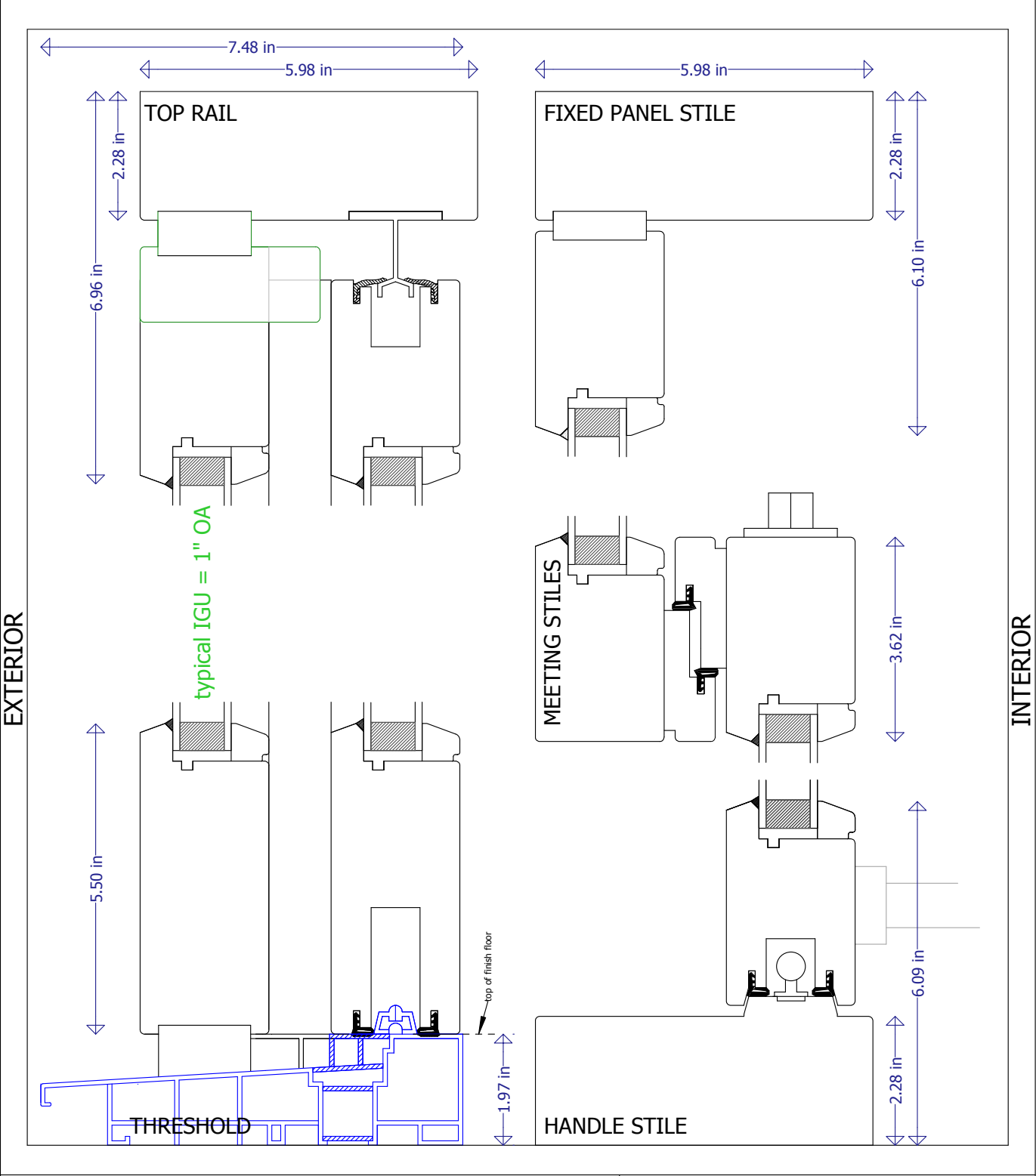


three panel lift-slide door, two
sliding panels

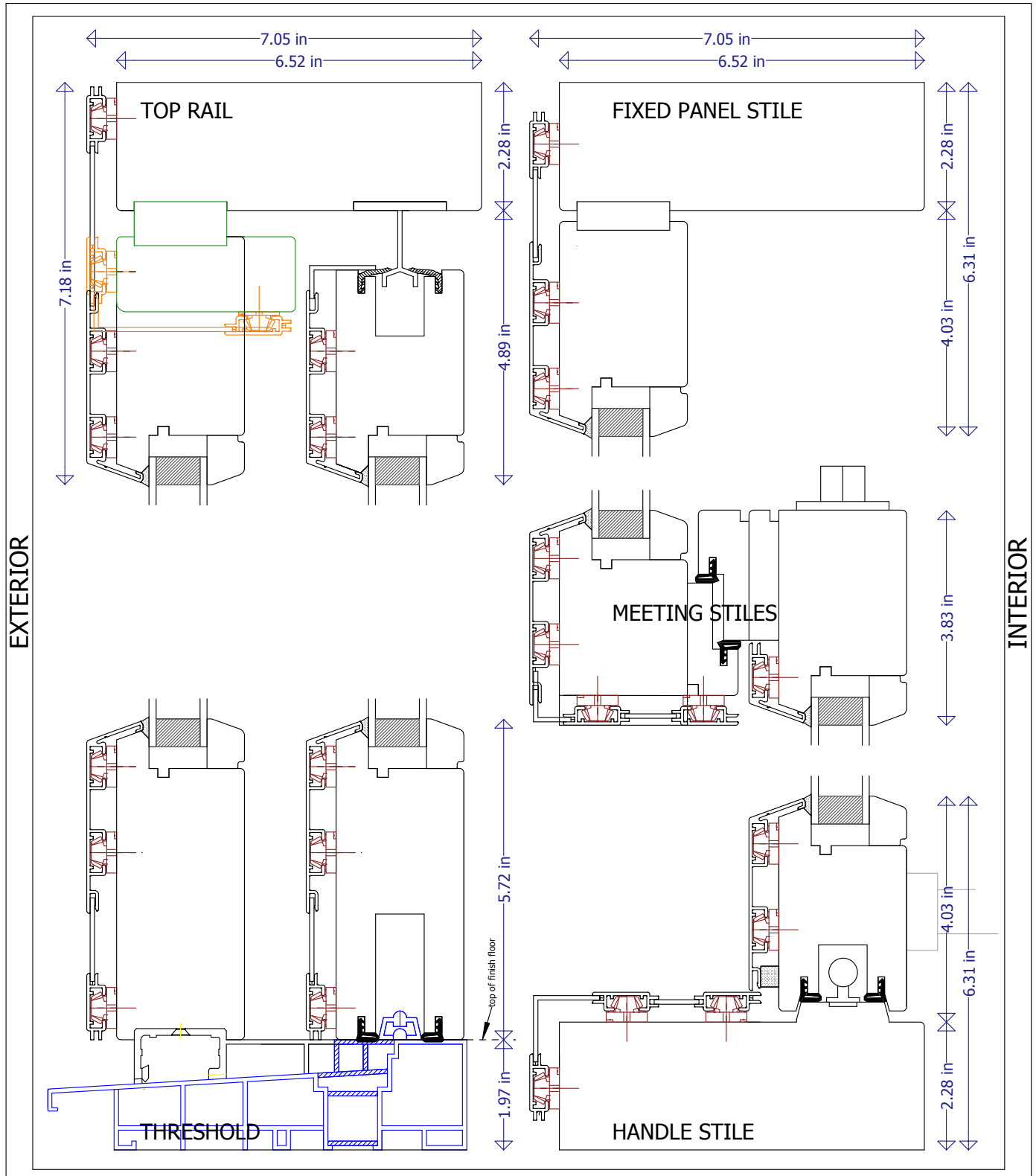


four panel lift-slide door, two
sliding panels, two fixed panels

Sections



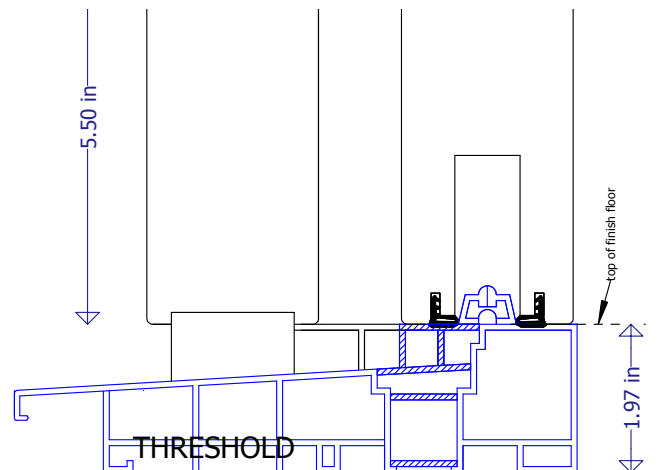
Aluminum clad sections



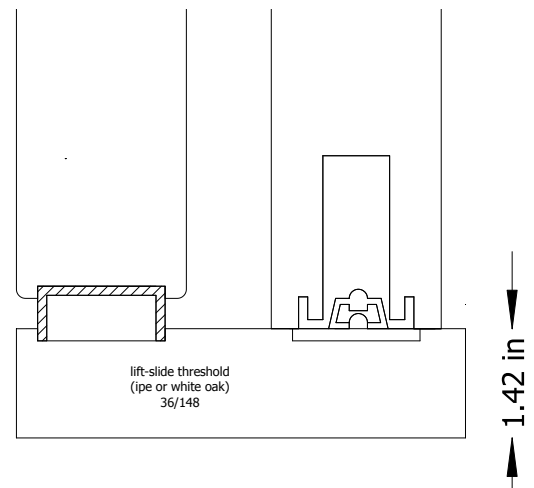
Threshold options

The lift-slide door has a 2 inch high aluminum threshold with an integrated thermal break. The threshold can be recessed into the flooring such that it is flush with the top of the finish floor. For applications where a 2 inch threshold cannot be fully recessed, a smaller wood threshold is available. The wood threshold height is customizable and can be as little as 1 inch high.

1 Standard aluminum threshold



2 Wood threshold

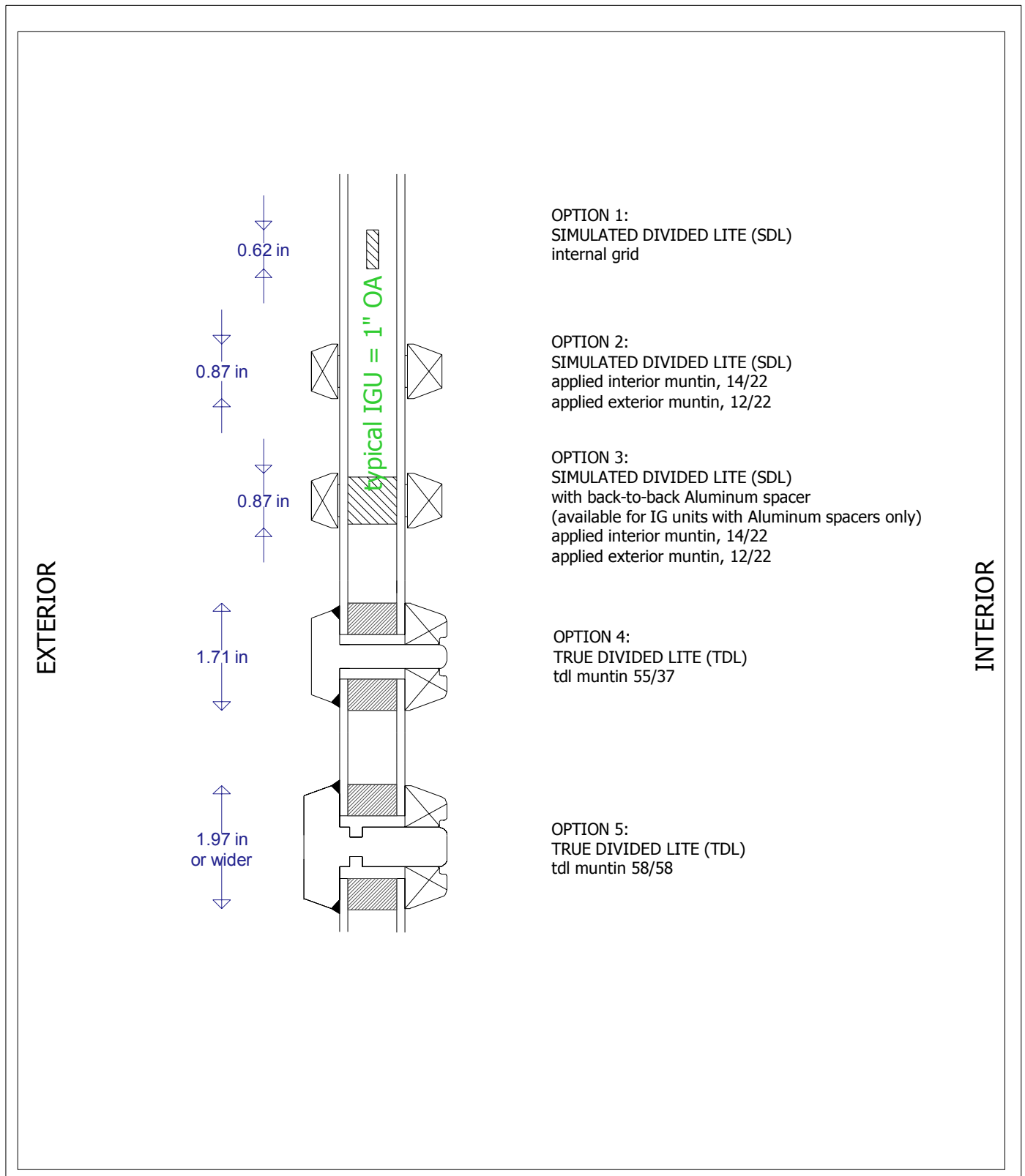


Note: because the wood threshold is flat, additional caution should be taken to ensure proper weather protection.



Muntins and stops

The lift-slide door can be built with a single lite or with a grid pattern. A Simulated Divided Lite (SDL) grid pattern contains one Insulated Glass Unit with wood and/or metal muntins. A True Divided Lite (TDL) grid pattern consists of several Insulated Glass Units separated by wood TDL muntins.





Glazing

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

Standard glazing

Cardinal dual strength tempered 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

A wide range of handle colors are available: white, brown, silver, nickel silver, light matt titanium and medium 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.

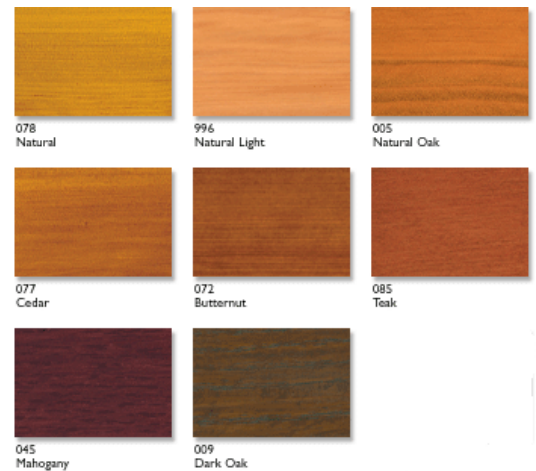
Advantages

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 several finish configurations: a uniform finish, a split finish, or no finish. Below is a description of the finish scenarios available:

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

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.

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

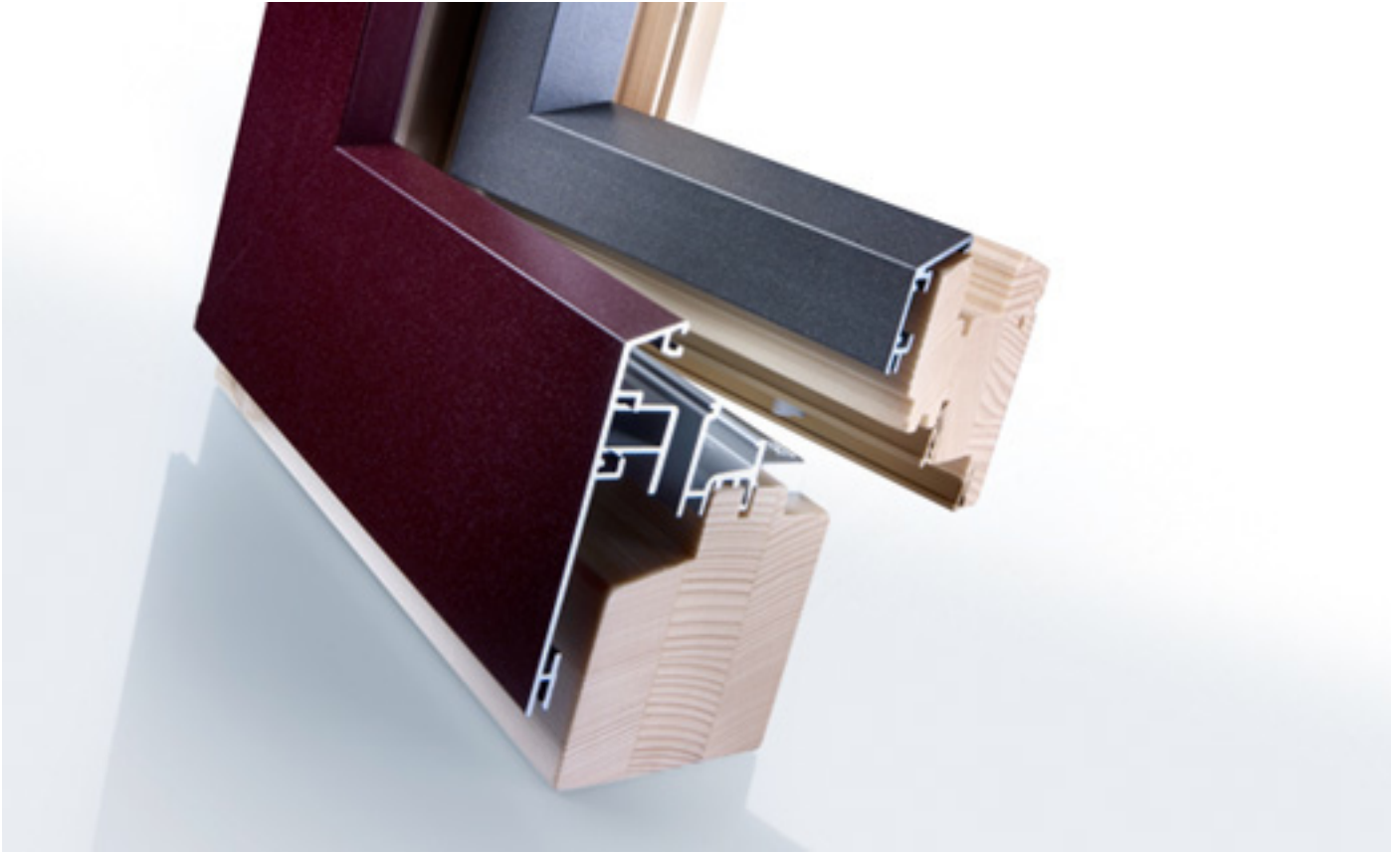
RUBBOL solid color stain (exterior),

Sikkens Cetol 1 + 23 semi-transparent stain (interior)

Colors: all colors

coats: 2 coats exterior, 3 coats interior





Aluminum cladding

HH Windows & Doors offers optional exterior aluminum cladding manufactured by Gutmann in Germany. All cladding profiles are made from heavy duty aluminum extrusions and incorporate back ventilation between the cladding and the exterior wood surface. Back ventilation prevents trapped moisture and allows the wood to breathe, which is essential for the longevity of the window.



Aluminum cladding colors



Bausysteme
Building Systems



RAL Standard-Farben/Standard RAL colours

GUTMANN Farbfächer	GUTMANN Colour Fan Deck
1013	Perlweiß / Oyster white
1015	Helldelfenbein / Light ivory
3003	Rubinrot / Ruby red
3004	Purpurrot / Purple red
3005	Weinrot / Wine red
3011	Braunrot / Brown red
5002	Ultramarinblau / Ultramarine blue
5003	Saphirblau / Sapphire blue
5007	Brillantblau / Brilliant blue
5008	Graublau / Grey blue
5011	Stahlblau / Steel blue
5014	Taubenblau / Pigeon blue
5023	Fernblau / Distant blue
6005	Moosgrün / Moss green
6009	Tannengrün / Fir green
6012	Schwarzgrün / Black green
7001	Silbergrau / Silver grey
7004	Signalgrau / Signal grey
7011	Eisengrau / Iron grey
7012	Basaltgrau / Basalt grey
7015	Schiefergrau / Slate grey
7016	Anthrazitgrau / Anthracite grey
7021	Schwarzgrau / Black grey
7022	Umbragrau / Umbra grey
7024	Graphitgrau / Graphite grey
7031	Blaugrau / Blue grey
7035	Lichtgrau / Light grey
7036	Platingrau / Platinum grey
7037	Staubgrau / Dusty grey
7038	Achatgrau / Agate grey
7039	Quarzgrau / Quartz grey
7040	Fenstergrau / Window grey
7045	Telegrau 1 / Telegrey 1
7046	Telegrau 2 / Telegrey 2
7047	Telegrau 4 / Telegrey 4
8001	Ockerbraun / Ochre brown
8003	Lehmbraun / Clay brown
8007	Rehbraun / Fawn brown
8011	Nussbraun / Nut brown

Mikrolierte Oberflächen / Micro-polished surfaces

M1/C31	Edelstahllook / Stainless-steel look
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Trendfarben / Trend colours

tr01	Trendblau / Trend blue
tr06	Trendgrün / Trend green
tr08	Trendweiß / Trend white
tr05	Trendrot / Trend red
tr02	Trendgrau / Trend grey

Baubronze-Design / Bronze design

029/60995	Baubronze mf matt / Bronze mf matt
029/60990	Baubronze metallic glatt matt Bronze metallic smooth matt

Strukturdesign / Structure design

029/50370	Grün sprenkel / Green speckle
029/80081	Ironglimmer P 7 / Iron glimmer effect P7
029/30401	ca. RAL 3004 matt/mf approx. RAL 3004 matt/mf
029/90092	Silberglimmer fs matt/mf Silver glimmer effect fs matt/mf
029/40782	Dark blue / Dark blue

RAL Standard-Farben/Standard RAL colours

GUTMANN Farbfächer	GUTMANN Colour Fan Deck
8014	Sepiabraun / Sepia brown
8016	Mahagonibraun / Mahogany brown
8017	Schokobraun / Chocolate brown
8019	Graubraun / Grey brown
8022	Schwarzbraun / Black brown
9001	Cremeweiß / Cream
9006	Weißaluminium / White aluminium
9007	Graualuminium / Grey aluminium
9010	Reinweiß / Pure white
9011	Graphitschwarz / Graphite black
9023	Perldunkelgrau / Pearl dark grey

Decoralfarben / Decoral colours

MKW 01	Douglas 1 / Douglas 1
MKW 02	Douglas 2 / Douglas 2
MKW 03	Kirsch 1 / Cherry 1
MKW 04	Kirsch 2 / Cherry 2
MKW 05	Eiche 1 / Oak 1
MKW 06	Eiche 2 / Oak 2
MKW 07	Kiefer 2 / Pine 2
MKW 08	Golden Oak 1 / Golden Oak 1
MKW 09	Golden Oak 2 / Golden Oak 2
MKW 10	Mahagoni 1 / Mahogany 1
MKW 11	Antik 1 / Antique 1
MKW 12	Nuss 1 / Walnut 1

Eloxalfarben / Anodised colours

E6/EV1	Natur / Natural
E6/G216	Dunkelbronze / Dark bronze
E6/G214	Mittelbronze / Middle bronze

Metalldesign / Metallic design

029/80341	Schwarz metallic / Black metallic
029/41100	Blau metallic / Blue metallic
029/72100	Grau metallic / Grey metallic



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