



Loewen

WINDOW & DOOR TECHNICAL GUIDE

Details, Sizing & Specifications



LOEWEN WINDOWS & DOORS

Loewen is the leading manufacturer of premium windows and doors for the luxury architectural market in North America and abroad.

Handcrafted

We are committed to producing handcrafted windows and doors. Our expert artisans ensure our fit-and-finish is unparalleled. These craftspeople are supported by high-tech, automated technologies, but it's the skilled hands in our makerspaces that have earned us our reputation among discerning architects, builders, and homeowners.

Authentic

We use authentic materials of the highest quality. At our core, Loewen is a designer and manufacturer of wood windows and doors. We use solid wood laminations, not veneers. Our extruded aluminum is the highest quality. Our operating hardware is bronze, brass, zinc, and stainless steel - all genuine materials, not imitations.

Enduring

Our designs are Enduring, both aesthetically and in performance. We work tirelessly to create products that are timeless, whether that means being true to historical architecture or by creating a lasting contemporary design. Behind the outward beauty is a functional performance that gives you an industry-leading experience for years to come.



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WOOD SPECIES

Authenticity is at the core of our product design, we continuously utilize genuine materials.

Coastal Douglas Fir - Our Standard

Douglas Fir is North America’s most plentiful softwood species; Loewen provides Coastal Douglas Fir as our standard because it is the best species for luxury projects. Coastal Douglas Fir is the premium grade of Douglas Fir, being the strongest and most durable of all the soft woods. Not only does it give our products a rich, warm texture, it is also remarkably tough and resilient. By choosing Coastal Douglas Fir as our standard we promise a beautiful future for our customers.

FEATURES

The strength of Coastal Douglas Fir lies in its high natural resistance to moisture absorption, decay, and insect infestation

Coastal Douglas Fir out-performs other Douglas Fir species and vastly outperforms other soft wood species (such as pine, etc.)

Solid Coastal Douglas Fir is our standard where it is an upgrade for others; when offered as an upgrade, many of our competitors typically only provide it as a thin veneer over lesser materials

Available in many window and door configurations:

Windows	Awning, Casement, Double Hung, Direct Set, Timber Curtain Wall, Specialty shapes and Custom configurations
Doors	Terrace Swing, Sliding Patio, Bifold, MultiSlide and LiftSlide



ALUMINUM CLADDING

Our extruded aluminum cladding is intricately detailed and withstands serious impact without sustaining damage.

Loewen uses only pre-finished extruded aluminum cladding to better protect window and door exteriors and eliminate the need for painting. Our thick extruded aluminum cladding retains its shape, resists denting and lasts longer than roll-formed aluminum. In addition, Loewen’s window cladding is set away from the underlying wood, creating an airspace that improves performance.

FEATURES

Withstands serious impact without sustaining damage

Allows intricate extrusion detailing

Provides the malleability necessary to clad many sizes and shapes

Delivers unequaled environmental durability

Provides a stable substrate that enhances paint and anodized performance

Available in many window and door configurations:

Windows	Awning, Casement, Double Hung, Direct Set, Timber Curtain Wall, Specialty shapes and Custom configurations
Doors	Terrace Swing, Sliding Patio, Bifold, MultiSlide and LiftSlide



TIMBER CURTAIN WALL

Stunning Panoramic Vistas are Here

The Loewen Timber Curtain Wall system embodies the spirit of contemporary architecture with minimal framing and cleaner sightlines, allowing for the most expansive views. Configuration options are limitless, including vertical walls, rake-heads, corner units, and integrated operable windows and doors.



CYPRUM COLLECTION

Living Finishes in Copper and Bronze

Loewen Cyprium features copper and bronze clad windows and doors unique in design and construction. The Cyprium collection is artisanal in detail, including hand-soldered exterior joints and rich, tactile depth of texture in the thick metal cladding and deep profiles.

These hand-wrought living surfaces develop distinctive patinas that adopt and define the individual aesthetic character of the homes to which they belong.

Available in many window and door configurations:	
Windows	Awning, Casement, Picture/Direct Set, Specialty Shapes and Custom Configurations
Doors	Swinging Terrace and LiftSlide (through DDS approval)



CUSTOM SHOP

Our highly regarded Custom Shop works in unison with our customers to create unique, made-to-order pieces.

We understand that no two projects are exactly alike. Design is fluid and ever changing, and our highly-regarded Custom Shop works in unison with our customers to create distinctive pieces based on their specific design requests. Whether you are looking for custom glazing, custom species, distressing, stains, or custom exterior casings, we can provide a solution for you.

EXAMPLES OF CUSTOM OPERATIONS AND CONFIGURATIONS

Large pivot doors

Custom entry doors

Strut operated pass through awnings

Tilt/turn window

Dutch doors

Inswing Casements

Hoppers

Pre-finishing (paint or stain)

Available in various window and door configurations.



ARCHITECTURAL SERVICES

Loewen’s Architectural Services division was created with the imagination and passion of Architects in mind. This consultative service connects Loewen’s technical expertise and manufacturing experience with visionaries who live to design, create and inspire.

Contact us by email
architecture@loewen.com

Contact us by phone
United States or Canada: 800.563.9367
Outside of North America: 431.305.0888

Dealer Network

In addition to Loewen’s Architectural Services, our large dealer network including territory managers and sales professionals throughout Canada and the United States serve and assist the architectural community. These Loewen professionals are able to provide detailed information, service and pricing for all Loewen products.

Loewen representatives are available for informative product demonstrations, office/site visits, architectural luncheons (which may qualify for AIA Continuing Education Credits), or other functions that require fenestration expertise.

Product Samples & Displays

Portable product samples and displays are available through Loewen Territory Managers and the dealer network. These tools aid in understanding product differences and features.

Loewen products are displayed at trade and home shows, including large national conferences and local exhibitions.



Performance

Our windows and doors are among the highest performing in the industry. Performance keeps homes comfortable and energy efficient, and strength protects against the worst nature can deliver. We achieve this through a commitment to produce the highest quality products possible, using only the highest quality materials. Loewen provides solutions ideal for diverse environments from the cold, harsh North to sunny South and tropical storm threatened regions

Loewen products are engineered to comply with and exceed building codes in North America. Each test is conducted by an independent agency and is based on extreme conditions and varying product sizes. Code compliance is a fundamental aspect of our product design. Many of our products meet the performance requirements for Energy Star™. The National Fenestration Rating Council empirically shows that Loewen products are among the industry’s best in terms of thermal performance.



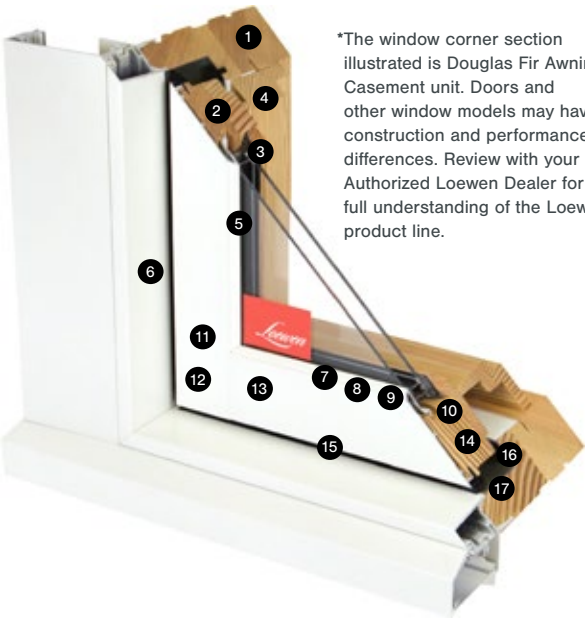
Steve Wisenbaker Architects

LOEWEN BASICS

Loewen windows are highly customizable. Whether you are retrofitting an elegant traditional home or seeking a contemporary look, Loewen has the ideal solution.

Loewen engineering results in uncommon strength and durability, enabling dramatic design, innovation and inspiration.

- | | |
|----|---|
| 1 | Coastal Douglas Fir for strength and rigidity (other species available). |
| 2 | Laminated sash for enhanced structural stability and a tight weather seal. |
| 3 | Dual seal on glass units for long hermetic seal life. |
| 4 | Natural clear wood interior, ideal for staining or painting. |
| 5 | Profiled sash edge for a finished look and integration with Simulated Divided Lite (SDL) bars. |
| 6 | Optional extruded aluminum cladding, for low maintenance, available in a wide range of colors (Cyprium cladding available). |
| 7 | No metal-to-glass contact, ensures improved energy efficiency. |
| 8 | Triple seal glazing system available on metal clad units to effectively block moisture infiltration. |
| 9 | Hidden venting channel allows condensation to escape, increasing seal and sash life. |
| 10 | Authentic stile and rail construction. No mitered sash corners. |



*The window corner section illustrated is Douglas Fir Awning/Casement unit. Doors and other window models may have construction and performance differences. Review with your Authorized Loewen Dealer for a full understanding of the Loewen product line.

- | | |
|----|---|
| 11 | Mortise and tenon sash corner joinery, for structural stability. |
| 12 | Tall bottom rail available to create a custom architectural look reminiscent of traditional joinery and to enhance structural stability and strength. |
| 13 | Airspace between wood and window cladding, for air circulation and added insulation value. |
| 14 | Secondary weatherstrip to deflect wind-driven rain from primary seal. |
| 15 | Continuous primary weather-stripping, for maximum protection against air and water infiltration. |
| 16 | Polypropylene liner for added protection from the weather. |

ENVIRONMENTAL COMMITMENT

Environmental stewardship is aligned with many of the core values that are present in Loewen. We understand our customers’ commitment to environmental sensibility and our brand reflects our commitment to alleviating our environmental footprint.

We practice environmental stewardship in not only our manufacturing processes, but in our product offering as well. Nearly 100% of the wood fiber used in the production of Loewen products is derived from forests that are sustainably harvested. Some of the certification include Canadian Standards Association (CSA) certified, and Programme for the Endorsement of Forest Certification (PEFC).



Loewen’s outstanding energy efficiency attributes and use of sustainable materials are ideal for use in structures designed under LEED (Leadership in Energy and Environmental Design).



Loewen is a socially responsible corporation, buying ethically manufactured products and recognized for our leadership in energy conservation and environmental protection. We prove the success of our brand through our environmental commitment.

Loewen was the recipient of the Tree Canada Foundation Eterne Award, honoring us for “environmental leadership and commitment to taking action on global climate change through the planting of trees.”

We recycle virtually all of the wood waste created in the manufacturing process. For example, during our frigid Canadian winters, we even heat our plant with sawdust. We also recycle glass, aluminum, weatherstripping, solvents, motor oil and paper.

Loewen seeks to reduce-reuse-recycle. We understand the dynamics of down-cycling and aggressively design systems optimally efficient in consumption. Loewen builds windows and doors of the highest quality to ensure long product life.

To this end, our products are made to be repaired and can be removed and re-installed. Once again, product quality is at the crossroads of efficiency and responsible design.

By manufacturing wood windows and doors, we use a renewable resource and an efficient natural insulator that consumes less energy than alternative materials in a home. And, because wood is the foundation of our business —everything that we do relies on this resource — we support re-forestation initiatives.

CERTIFICATIONS & ASSOCIATIONS

Loewen windows and doors are engineered to comply with — and exceed — building codes in North America and beyond. Each test is conducted by an independent agency, based on extreme conditions and varying product sizes. Code compliance is a fundamental aspect of Loewen design and engineering.



National Fenestration Rating Council (NFRC)
Our products are empirically shown to be among the industry’s best in terms of thermal performance.



Window & Door Manufacturers Association (WDMA)
Hallmark Certification verifies that manufactured products are the same as tested products.



Energy Star Partner
Many of our products meet the performance requirements for Energy Star™.



Texas Department Of Insurance (TDI)
The TDI is a dynamic leader in responsible state, national, and global regulation, consumer protection, and market viability.



Florida Building Code
The Florida Building Code is the strictest code in the United States for resistance to wind-borne debris and wind-loading for fenestration products. Many Loewen certified products meet high velocity wind zone 4 standards.



Efficient Windows Collaborative
Loewen is a founding member of the U.S. Department of Energy’s Efficient Windows Collaborative.



Fenestration Canada

*Not all products meet every certification.

OUR GUARANTEE

Support, Consideration and Service

Our warranty is the written proof of our commitment to quality. Loewen windows and doors are made to last, and we have always stood behind our product with unsurpassed support, follow up, and service.

The strength of a warranty is based on the quality of the windows and doors and the confidence of the company behind them. When you have been building custom windows and doors for decades, you know that the first step in having a credible warranty is the integrity of your products.

20³

TWENTY / TWENTY / TWENTY
W A R R A N T Y

Loewen metal clad products carry a 20 year warranty covering paint, glass and wood components.

Visit loewen.com for complete details

THE LOEWEN ADVANTAGE

Full 20-year warranty on glass, wood components, and paint finishes on clad product.

We guarantee our products for the full length of our warranty, meaning our support does not reduce over time.

Complete coverage for all color finishes on our aluminum clad exterior including protection against fading and chalking for 20 years.

Full 10-year coastal warranty on painted finishes within one mile of the coastline.

Fully supported warranty service with our network of Loewen experts and regional dealer inspections.

Full 2 years labor warranty.

COMPETITION WARRANTIES

May promote a longer warranty even if it is limited or not inclusive for all parts.

May be prorated warranties that reduce the manufacturer's liability as the product ages.

Vinyl and wood fiber clad exteriors may carry a color fade only warranty or none at all.

Warranties on paint that extend past those of the paint specifications will not extend the life of the paint finish and are always limited.

Warranties that cover various distances from the coast often do not consider the specific effects of coastal weather conditions.

Confusing language - for example: a lifetime warranty against corrosion for an exterior component that contains no metals really needs to cover against UV deterioration and chalking.



Coates Design

COLOR & CLADDING

Superior Aluminum Cladding

Loewen uses only pre-finished extruded aluminum cladding to better protect window and door exteriors and eliminate the need for painting. Our thick extruded aluminum cladding retains its shape, resists denting and lasts longer than roll-formed aluminum. In addition, Loewen’s window cladding is set away from the underlying wood, creating an airspace that improves thermal performance.

The broad variation in Loewen sizes, shapes and designs and the demanding environmental conditions that our product encounters require an alloy that has the ability to:

Withstand serious impact without sustaining damage

Allow intricate extrusion detailing

Provide the malleability necessary to clad many sizes and shapes

Deliver unequaled environmental durability

Provide a stable substrate that enhances colorfast paint performance



AAMA 2605 / 70% Kynar Finishes

Loewen’s finish palette provides the perfect finishing touch for fulfilling your vision, while also providing industry leading quality and performance. Loewen’s paint formula includes 70% Kynar 500 PVDF (polyvinylidene fluoride) resin, which offers the greatest resistance to weathering, fading and chalking. This ensures a beautiful finish that will last when cared for properly. With excellent appearance and durability, these paints meet the specifications of the American Architectural Manufacturers Association (AAMA) 2605.



Standard Paint Palette (AAMA 2605)

We have worked with industry professionals and designers to define our palette of exterior metal clad colors and finishes. These paints meet the specifications of the American Architectural Manufacturers Association (AAMA) 2605. The qualities of this paint provide robust weathering, fade, and chalk resistance and a beautiful finish that lasts for decades when cared for properly.

AAMA 2605 / 70% Kynar Finishes

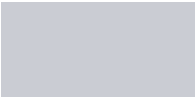
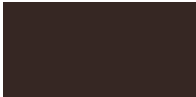
					
Alpine White	White	Linen	Dover Grey	Storm Grey	Stone Grey
					
Graphite	Tuscany Brown	Steel Matte Black	Black	Midnight Bronze	Country Road
					
Riverbed	Corretto	Kodiak	Woodland Green	Hartford Green	Cranberry

Anodized Finishes (AAMA 611)







A durable alternative to painted coatings, our Anodized Finishes offer a rich matte look that reduces sunlight glare and allows the aluminum to maintain its metallic appearance. In addition to the aesthetically desirable etching, our Anodized Finishing also increases resistance to abrasion.

**Anodized finishes are not recommended in coastal environments*

STANDARD ANODIZED FINISHES

	
Clear	Dark Bronze

ADDITIONAL ANODIZED FINISHES

		
Champagne	Light Bronze	Copper
		
Medium Bronze	Extra Dark Bronze	Black

Due to technical print limitations colors and finishes may not be exactly as shown

Additional Custom Paint Palette (AAMA 2605)

When personal style or design dictates a unique color solution, just tell us what your wish is. Our standard range of aluminum clad colors is enhanced with the choice of true custom color specification. The integral cross matching system and color approval process ensures that you get the exact color you want every time.

AAMA 2605 / 70% Kynar Finishes

					
Antique White	Stonybrook	Ash Grey	Charcoal	Barnacle	Winter Wheat
					
Seashell	Driftwood	Sahara Sand	Sedona Brown	Sable	Harvest Gold
					
Bordeaux	Newport Blue	Canadian Thistle	Portobello	Cappuccino	Candy Apple
					
Canyon Red	River Rouge	Olive Grove	Rocky Mountain	Admiral Blue	Mediterranean Blue
					
Chesapeake Blue	Deep Sea	Sage Green	Sea Grass	Forest Green	Island Hunter
					
Liberty Green	Ivy	Moss	Pebblestone	Pewter	Champagne
					
Silver	Pearl	Classic Copper	Steel Matte Bronze		

Due to technical print limitations colors and finishes may not be exactly as shown

Interior Paint Prefinishing

Loewen offers two standard factory applied, interior paint finishes for Douglas Fir units. Pre-finishing is available in Jet Black or Oxford White.

All components are prepped and painted before final unit assembly. The application includes multi-step process including sanding between coats as well as time in the drying ovens. The coatings are a premium waterborne finish of a proprietary blend of self-crosslinking acrylic and urethane resins that are specially formulated to provide exceptional finish properties.



Jet Black



Oxford White



Interior/Exterior Stains & Distressing

We offer stains for our wood products through our Custom Shop. Our expert craftspeople ensure that stains are accurately and consistently applied for an enduring finish. In addition to staining, optional wire-brushed distressing can be applied.



Cedar



Cinnamon



Clear



Coastal Grey



Ebony



Red Mahogany



Rich Mahogany



Spanish



Spanish Oak



Tuscon



Western

Wirebrushed Tuscon



Wirebrushed Western



Wirebrushed Coastal Grey

DURABILITY & VERSATILITY

Versatility is one of the key elements in the Loewen product offering — there are more than ten trillion possible combinations of standard Loewen products.

In addition to this massive standard selection matrix, Loewen products are available in custom shapes, sizes and configurations.

Each Loewen product, whether standard or custom, may be further personalized by choosing the Loewen Cyprium™ Collection or through the use of Simulated Divided Lites, exterior casing options and metal clad paint selection in a variety of colors and finishes. An array of hardware finishes further expand the variety and customization of each window order.

Douglas Fir Durability

Douglas Fir outperforms Hemlock & Pine

Wood Species	Specific Gravity (density)	Impact Strength (height of drop causing complete failure)	Compression Strength (parallel to grain)	Compression Strength (perpendicular to grain)	Hardness (load perpendicular to grain)	Resistance to Decay USFS Grade
	Weight Over Volume	Inch	psi	psi	lbs	
Douglas Fir	0.48	31.0	7,230	800	710	Moderate
Mahogany	0.42	Untested	6,460	1,500	830	Slight
Western Hemlock	0.45	23.0	7,200	550	540	Slightly to non-resistant
Ponderosa Pine	0.40	19.0	5,320	580	420	Slightly to non-resistant

Douglas Fir Fastener Retention

This chart shows the force required to remove fasteners

Wood Species	Nail	Screw	Hinge
Douglas Fir	189 lbs	527 lbs	743 lbs
Ponderosa Pine	98 lbs	392 lbs	486 lbs



WINDOW HARDWARE

Selecting a style and finish that reflects your unique taste is a critical part of creating the right look.

But choosing hardware involves more than just appearance — function and operation are essential, which is why Loewen offers a wide range of handles, locking systems and other hardware choices — from the most traditional to the most contemporary. Hardware must also offer intelligent design and flexibility. This is why Loewen provides designs such as the foldaway handle, useful when window coverings fit tight against a window or when access space is limited.

For hard-to-reach windows, optional motorized operators can be activated by a simple wall switch or battery operated remote control.



Double Hung

Sash Lock



Satin Nickel



White



Matte Black



Bright Brass



Antique Brass



Brushed Chrome



Faux Bronze



Linen



Oil Rubbed Bronze

Rotogear

Contemporary



Satin Nickel



White



Matte Black



Faux Bronze

Provence



Satin Nickel



White



Matte Black



Bright Brass



Antique Brass



Brushed Chrome



Faux Bronze



Linen



Oil Rubbed Bronze

Tango



Satin Nickel



White



Matte Black



Bright Brass



Antique Brass



Brushed Chrome



Faux Bronze



Linen



Oil Rubbed Bronze

Pushout

Traditional



Satin Nickel White



Matte Black Bright Brass Unlacquered Brass Antique Brass



Faux Bronze Linen



Oil Rubbed Bronze Rustic Bronze Brushed Chrome

Contemporary



Satin Nickel White



Matte Black Bright Brass Faux Bronze Linen Oil Rubbed Bronze



DOOR HARDWARE

Loewen doors are available with a wide range of hardware options. We constantly review our hardware selection and new options are regularly added. Consult your Authorized Loewen Dealer for the most current information.

Terrace Door

Dallas



Satin Nickel
Resista



Matte Black



Dark Bronze
Metallic



Polished Brass
Resista



Rustic Umber

Meran



Satin Nickel
Resista



Matte Black



Oil Rubbed Bronze



Polished Brass
Resista



Antique Brass



Brushed Chrome
Resista

Rodos



Satin Nickel
Resista



Matte Black



Oil Rubbed Bronze



Polished Brass
Resista



Antique Brass



Brushed Chrome
Resista

Verona



Satin Nickel
Resista



Matte Black



Oil Rubbed Bronze



Polished Brass
Resista



Antique Brass



Brushed Chrome
Resista

Sand Cast Bronze



Churchill Rustic Bronze



Shropshire Rustic Bronze

MultiSlide & Patio Door

Miami



Satin Nickel PVD



Matte Black



Bronze PVD



Polished Brass PVD

Sand Cast Bronze



Churchill Rustic Bronze

Botticelli



Satin Nickel PVD



Matte Black



Bronze PVD



Oil Rubbed Bronze



Antique Brass

Fontana



Satin Nickel PVD



Matte Black



Bronze PVD



Oil Rubbed Bronze



Antique Brass

Flush Handle



Satin Nickel



White



Matte Black



Bronze



Faux Bronze

LiftSlide Door

Flush Handle



Silicon Bronze Dark



Dark Bronze Lustre



White Bronze Brushed

Marcos



Satin Nickel



Oil Rubbed Bronze



Bright Brass



Matte Black



Dark Bronze

Storm & Screen Door

Tampa



Satin Nickel



Black



Oil Rubbed Bronze

Thompson



Satin Nickel



Black



Oil Rubbed Bronze

Concord



Black



GLAZING OPTIONS

Loewen Sealed Units offer ideal solutions for any environment. With countless glazing configurations and LowE coating options, we ensure that you can choose the perfect blend of protection and comfort - no matter where you live.

LowE Window Systems

LowE is a high-performance glazing system that offers great thermal value in a variety of climate zones. They also protect furnishings by limiting much of the damaging ultraviolet radiation that causes fading and related damage. The charts on page A38 show the comparative performance of each Loewen Window System.

LowE Double

Double glazed, with one or more layers of LowE coating and 1/2” (13mm) airspace filled with Argon gas and stainless steel thermal spacer bar.

Loewen standard 1/8” (3 mm) double strength glass offers greater strength and clarity over thinner glass, making our products more insulative, more soundproof, more resistant to impact and considerably more resistant to stresses caused by fluctuations in temperature.

Loewen standard sealed units contain Argon gas and machine applied primary and secondary sealants reducing the chance of seal failure, improving Argon gas retention, and increasing strength.



We pioneered True Triple Glazing in the 1970’s, which is a testament to our approach on innovation. For premium energy performance, we’ve made triple glazing available across our entire product line.

True Triple Sealed Units with LowE surface coatings for maximum performance

Triple glazed, with multiple layers of LowE coatings and two 1/2” airspaces filled with Argon gas and stainless steel thermal spacer bars. Our LowE Triple features full 1/2” airspaces to maximize energy efficiency unlike other window systems that use lesser performing narrower airspaces.

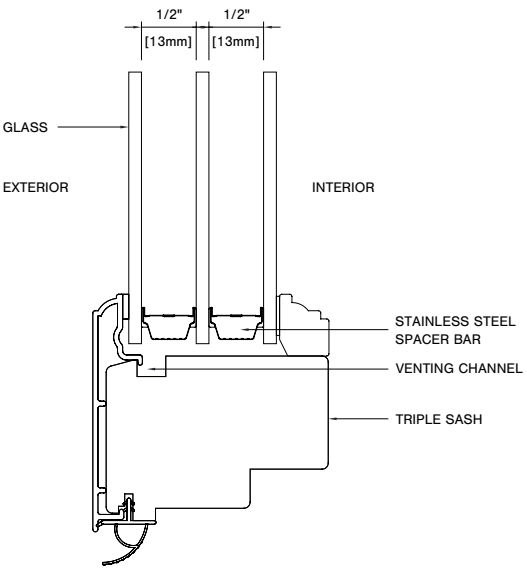
Loewen standard 1/8” (3mm) double strength glass provides greater strength and clarity over thinner glass, making our products more insulative, more soundproof, more resistant to impact and considerably more resistant to stresses caused by fluctuations in temperature

Loewen standard sealed units contain Argon gas in all airspaces and machine applied primary and secondary sealants, reducing the chance of seal failure, improving Argon gas retention and increasing strength

Venting channel built into the sash helps dissipate should condensation or moisture occur

Stainless steel spacer bar is less conductive than aluminum and structurally superior to silicone foam type spacers

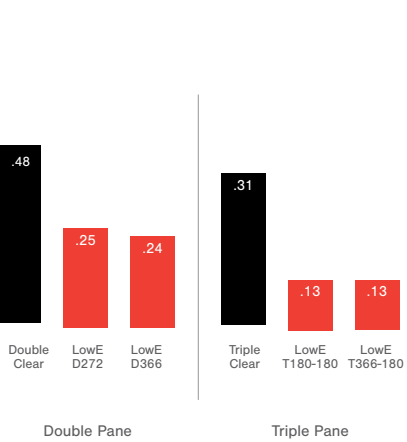
Sash cladding does not touch the glass which reduces the opportunity for thermal conduction



LowE Compared With Clear Double & Triple Pane Glass Units

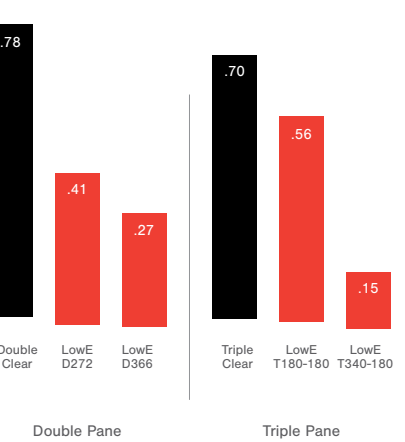
U-VALUE*

This chart illustrates the resistance of heat transfer through the glass. Lower U-Value indicates greater insulating capabilities. U-Value measured at center of glass.



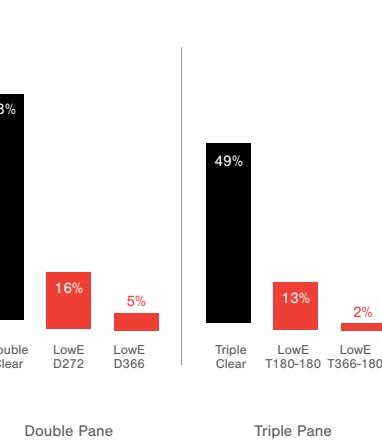
SOLAR HEAT GAIN (SHGC)*

This chart measures the ratio of solar heat gain through a glazing system compared to an unobstructed opening.



UV TRANSMITTANCE*

This chart measures the percentage of ultraviolet radiated wavelengths allowed to be transmitted through the glazing system.



*Ashrae calculated values Window 5.2 | 1/2" airspace (13 mm) | Does not apply to sealed units with capillary tubes installed

Note: Information in these charts compares the center of glass performance levels of the sealed unit only when manufactured with different glazing options. They are not representative of overall window performance, which depends on many factors including grille options, such as simulated divided lites, grilles between glass, product size and configuration. This information cannot be used to calculate energy performance, to determine resistance to condensation or to develop assumptions about suitability for use or compliance with energy codes. For overall performance of specific windows or doors, refer to "NFRC U-factor and SHGC/VT" information.

LowE Coating Options

We offer as many glazing configurations and LowE coatings as there are climates so our window performance can be built to provide comfort in any environment.

LoE3 – 366 Ultimate Performance

Highest level of year-round comfort for every climate

Better insulator (low u-value) and solar heat blockage (low SHGC)

Three layers of silver (LoE3 366)

LoE3 – 340 Ultimate Solar Control

Greatly reduces oppressive solar heat gain & glare

Best insulator (low u-value)

Three layers of silver (LoE3 340)

LoE2 – 272 All-Climate

Year-round, well balanced performance and comfort

Better insulator (low u-value) and moderate solar heat blockage

Two layers of silver (LoE2 272)

LoE – 180 Passive Solar Gain

Ideal for passive solar applications

Good insulator (low u-value) and high solar heat gain

One layer of silver (LoE 180)

LoE – i89 Roomside LoE

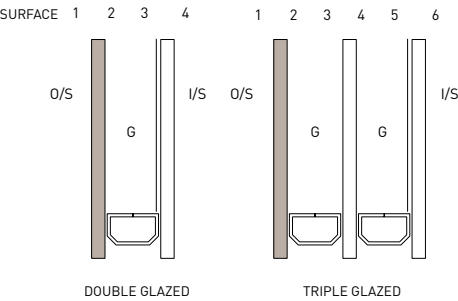
Indoor lite, surface #4 (double) or #6 (triple) reflecting more heat back into the room

Enhanced insulation (lowers u-value)

Iridium Tin Oxide coating (LoE i89)

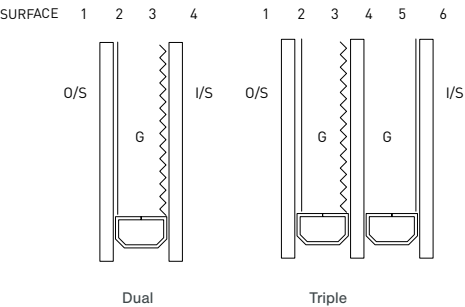
Glazing Fabrication

TINTED GLAZING



LowE® Glazing Fabrication

STANDARD GLAZING



SPECIALTY GLAZING

Neat+® Glass or Preserve™ Protective Film Added Value Solutions

Neat+® Glass is an ultra smooth surface made from silicon dioxide that harnesses UV rays to loosen dirt. Neat+® Glass helps leave windows spotless with a quick rinse of water and preserves their cleanliness longer. Neat+® Glass is offered with Preserve™ as standard to protect the Neat® surface.

Loewen windows and doors may also be equipped with added value solutions, such as Preserve™ protective film. Preserve™ is made from a low-density polyethylene and water-based adhesive that reduces masking and cleanup costs for painting and staining. Available for the exterior and interior window and door glass surfaces, Preserve™ is quickly and easily removed

Tranquility Solutions for Traffic & Other Urban Noise

Loewen’s heavy frames, thick glass and superior fit and finish result in above-average sound attenuation.

Tranquility® Glazing Systems Greatly Reduce Sound Transmission.

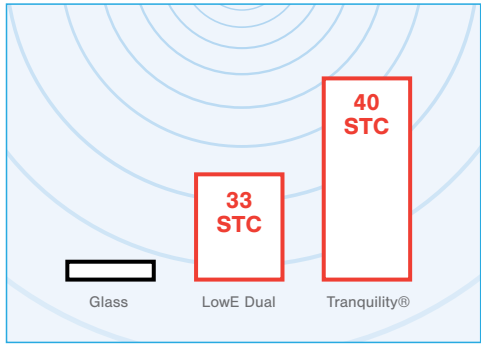
Tranquility® Glazing Systems consist of a 1/4” (6 mm) glass on the exterior, a 13/16” (21 mm) Argon filled space, and a 9/32” (7 mm) laminate pane of glass on the interior.

Operating casement units test out at STC40 (no storm panel is required to achieve this rating). Visit www.loewen.com for details.

Laminated glass used in the sealed unit provides increased security and helps to filter out damaging ultraviolet rays.

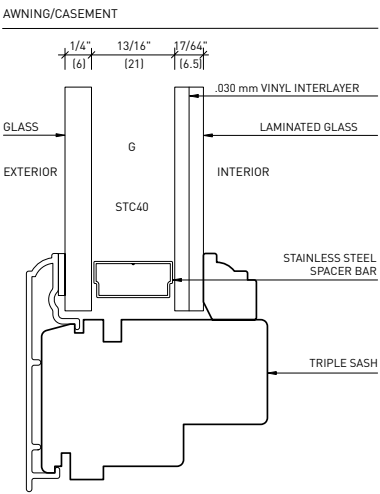
Tranquility® Sound Transmission Class (STC)

Using a single number, the STC rating identifies the sound transmission reduction of a glazing unit over a range of frequencies.



Tranquility® available on product configured for triple pane only.

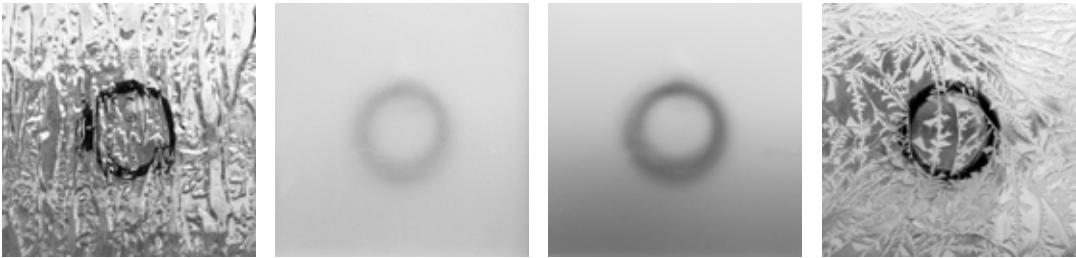
Tranquility® Glazing



Additional options include a wide variety of novelty glass treatments. These images are a sample of the offerings that can be added to selected Loewen windows and doors. Please contact your local dealer for the full range of options and applications.



3.9 Austral Aqualite English Reed Narrow Reed Pattern #62



Rain Sandblast Satin Etch Single Glue Chip



Narrow Reed



Narrow Reed

DIVIDED LITES AND GRILLES

Simulated Divided Lite (SDL) bars add a distinctive design feature to full-size panes of glass. Wood or metal bars securely bonded to the outer surfaces of the sealed glass unit simulate the appearance of traditional true divided lites.

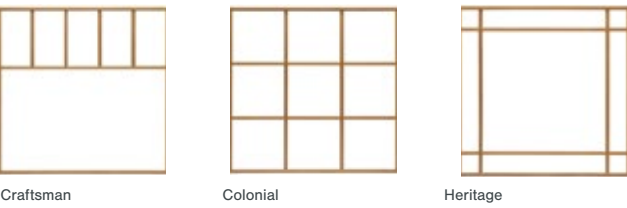
Available with straight or radius bars.

Additional airspace bars (between the glass) complete a convincing reproduction of a multi-paned window or door. Our spacer bars function among the best in the industry and provide an intriguing aesthetic appearance in stainless steel or black color options. Wide shadow bars fill more of the airspace replicating the look of True Divided Lites. Narrow shadow bars also provide a similar appearance while allowing for improved sealed unit performance.

Exterior Bar Options

	Ogee	Putty
Cross Section		
5/8" [16]		
3/4" [19]		
7/8" [22]		
1-1/8" [30]		
2" [51]		

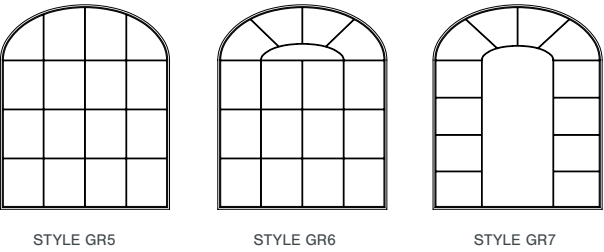
Simulated Divided Lite (SDL) Standard Patterns



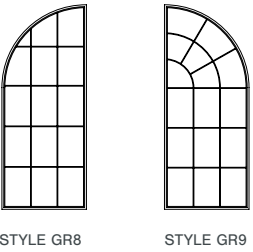
Extended Half Round



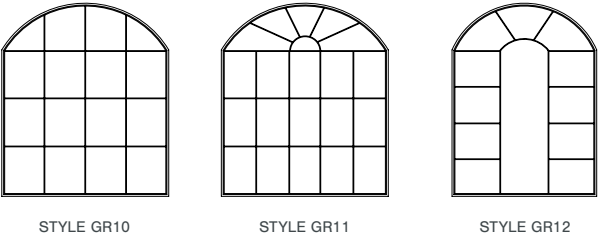
Extended Half Ellipse



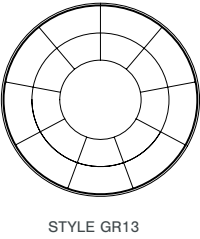
Extended Quarter Round



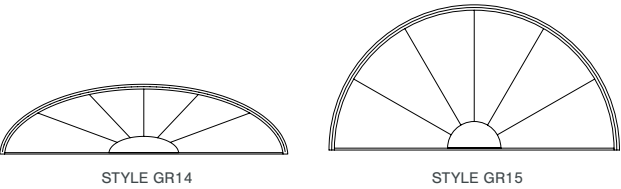
Extended Full Chord



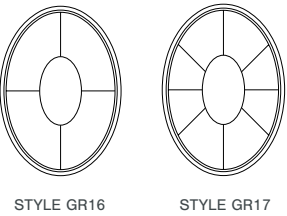
Full Round



Sunburst




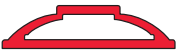




























Oval



Note: Number of grille bars and spacing is determined by the size of the unit. Grille type may not be available in all units. Custom patterns available for approval.

Information is subject to change without notice. | CAD download and installation instructions: www.loewen.com

Awning & Casement Units
Types of Simulated Divided Lite

















Application	Available SDL	5/8" [16mm]	3/4" [19mm]	7/8" [22mm]	1-1/8" [30mm]	2" [50mm]
MC Exterior	Ogee					
Interior	Ogee					
MC Exterior	Putty					
NC Exterior / Interior	Putty					
Interior	Square					
Interior	Impact Ogee					
NC Exterior	Ogee					



Note: MC = Metal Clad, NC = Non Clad

Information is subject to change without notice. | CAD download and installation instructions: www.loewen.com

Double/Single Hung Units
Types of Simulated Divided Lite

































Application	Available SDL	5/8" [16mm]	3/4" [19mm]	7/8" [22mm]	1-1/8" [30mm]	2" [50mm]
MC Exterior	Ogee					
Interior	Ogee					
MC Exterior	Putty					
NC Exterior / Interior	Putty					
Interior	Square					
Interior	Impact Ogee					
NC Exterior	Ogee					



Note: MC = Metal Clad, NC = Non Clad

Information is subject to change without notice. | CAD download and installation instructions: www.loewen.com

Picture Units
Types of Simulated Divided Lite













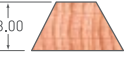
























Application	Available SDL	5/8" [16mm]	3/4" [19mm]	7/8" [22mm]	1-1/8" [30mm]	2" [50mm]
MC Exterior	Ogee					
Interior	Ogee					
MC Exterior	Putty					
NC Exterior / Interior	Putty					
Interior	Square					
Interior	Impact Ogee					
NC Exterior	Ogee					



Note: MC = Metal Clad, NC = Non Clad

Information is subject to change without notice. | CAD download and installation instructions: www.loewen.com

Patio Door Unit
Types of Simulated Divided Lite









Application	Available SDL	5/8" [16mm]	3/4" [19mm]	7/8" [22mm]	1-1/8" [30mm]	2" [50mm]
MC Exterior	Ogee					
Interior	Ogee					
MC Exterior	Putty					
NC Exterior / Interior	Putty					
Interior	Square					
Interior	Impact Ogee [MP]					
Interior	Impact Ogee [MP]					
NC Exterior	Ogee					



Note: MC = Metal Clad, NC = Non Clad

Information is subject to change without notice. | CAD download and installation instructions: www.loewen.com

Terrace/French & Bifold Door Unit
Types of Simulated Divided Lite

Application	Available SDL	5/8" [16mm]	3/4" [19mm]	7/8" [22mm]	1-1/8" [30mm]	2" [50mm]
MC Exterior	Ogee					
Interior	Ogee					
MC Exterior	Putty					
NC Exterior / Interior	Putty					
Interior	Square					
Interior	Impact Ogee [MP]					
Interior	Impact Ogee [MP]					
NC Exterior	Ogee					

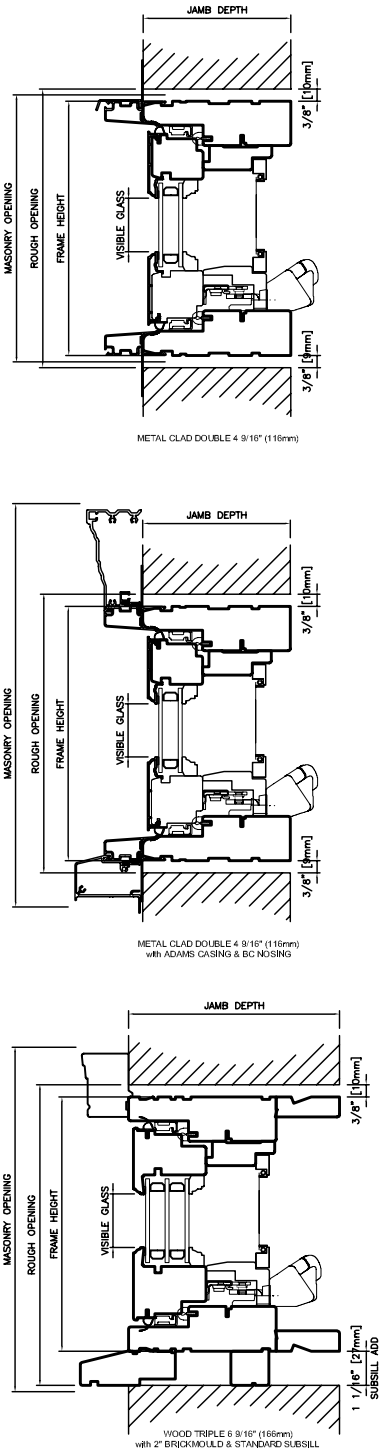


Note: MC = Metal Clad, NC = Non Clad

Information is subject to change without notice. | CAD download and installation instructions: www.loewen.com

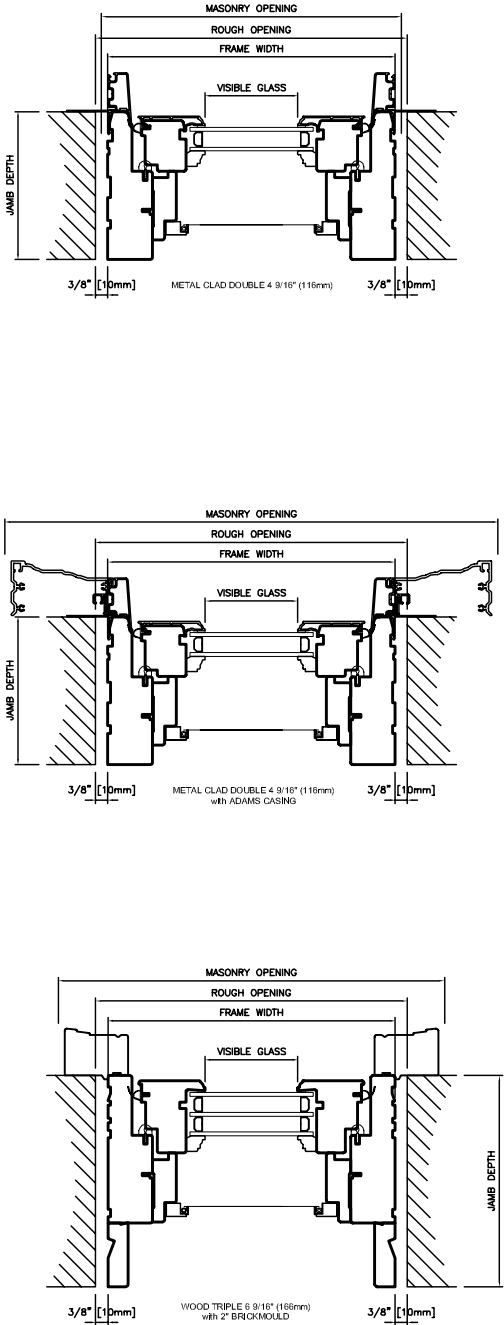
Casing, Jamb & Opening
Definitions

Head & Sill Detail




Information is subject to change without notice. | CAD download and installation instructions: www.loewen.com


Plan View




Metal Clad Casing, Sill Nose & Accessories




Direct Mull Cover




1/4" Spread Mull Cover



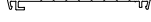
1" Spread Mull Cover




1 1/2" Spread Mull Cover




2" Spread Mull Cover




2 1/2" Spread Mull Cover




3" Spread Mull Cover




4" Spread Mull Cover



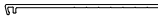
6" Spread Mull Cover



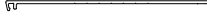
1" Frame Expander



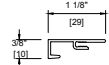
2" Frame Expander



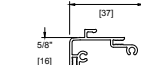
3" Frame Expander



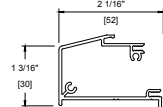
4" Frame Expander



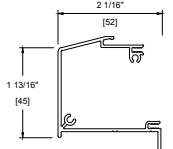
Kerf Casing



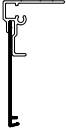
Standard Sill Nose



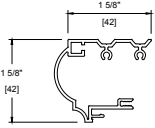
BC Sill Nose



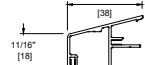
Heritage Sill Nose



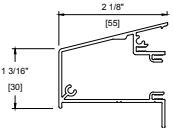
Add frame expander for custom height brickmould.



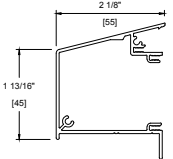
Nose & Cove Casing




Double Hung Standard Sill Nose



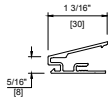
Double Hung BC Sill Nose



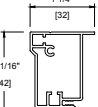
Double Hung Heritage Sill Nose




Add frame expander for custom mull cover.




Double Hung Multi-Lite Sill Nose



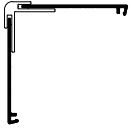
2" Brickmould



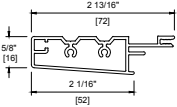
3 1/2" Flat Casing



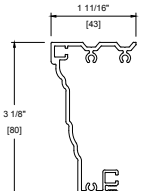
Adjustable Brickmould



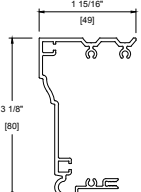
Add frame expander for custom corner cover.




2" Clad Frame Extension




Adams Casing



Williamsburg Casing



H-Clip



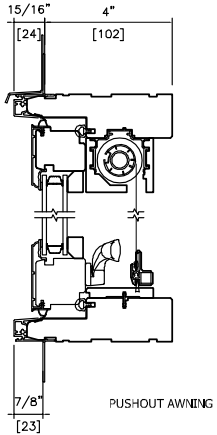
L-Clip

Note: • Other jamb widths available.

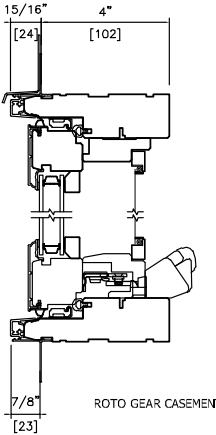
Information is subject to change without notice. | CAD download and installation instructions: www.loewen.com

Contemporary Frame Cladding

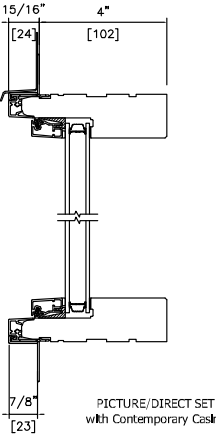
Head & Sill Detail



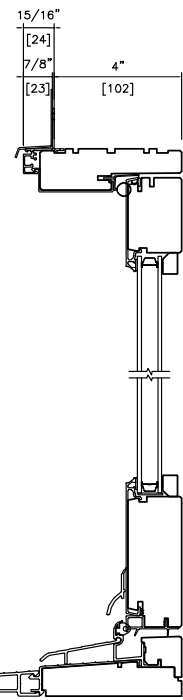
PUSHOUT AWNING



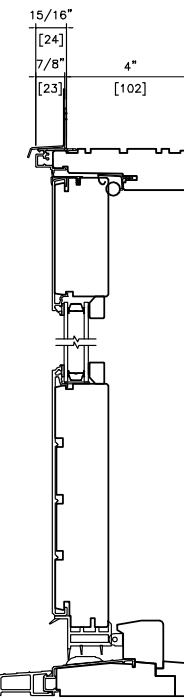
ROTO GEAR CASEMENT



PICTURE/DIRECT SET with Contemporary Casing

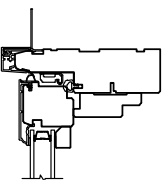


INSWING TERRACE/FRENCH TERRACE - NARROW STILE

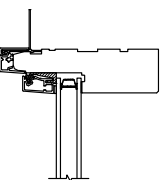


OUTSWING TERRACE/FRENCH TERRACE - STANDARD STILE

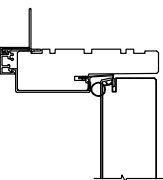
Casing



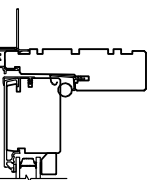
AWNING/CASEMENT



PICTURE/DIRECT SET



INSWING TERRACE/FRENCH TERRACE

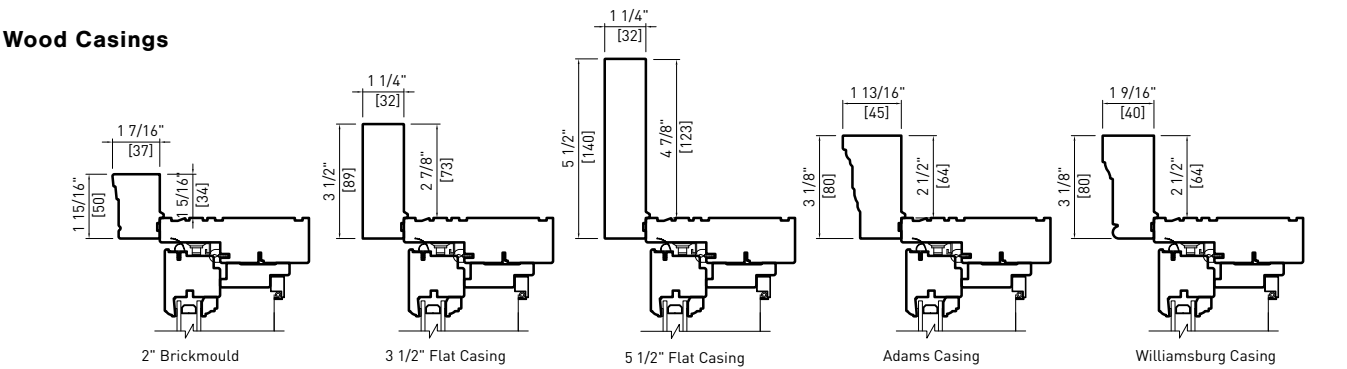


OUTSWING TERRACE/FRENCH TERRACE -

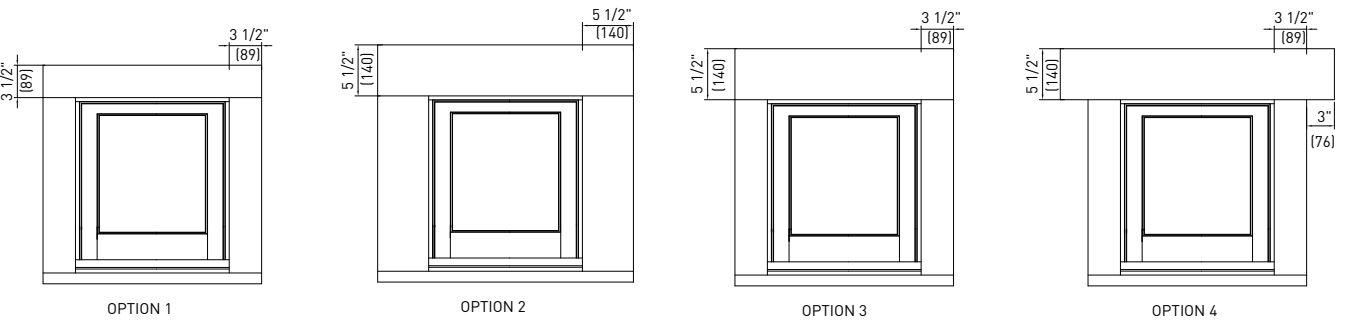
Information is subject to change without notice. | CAD download and installation instructions: www.loewen.com

Wood Exterior Casing
& Subsill Options

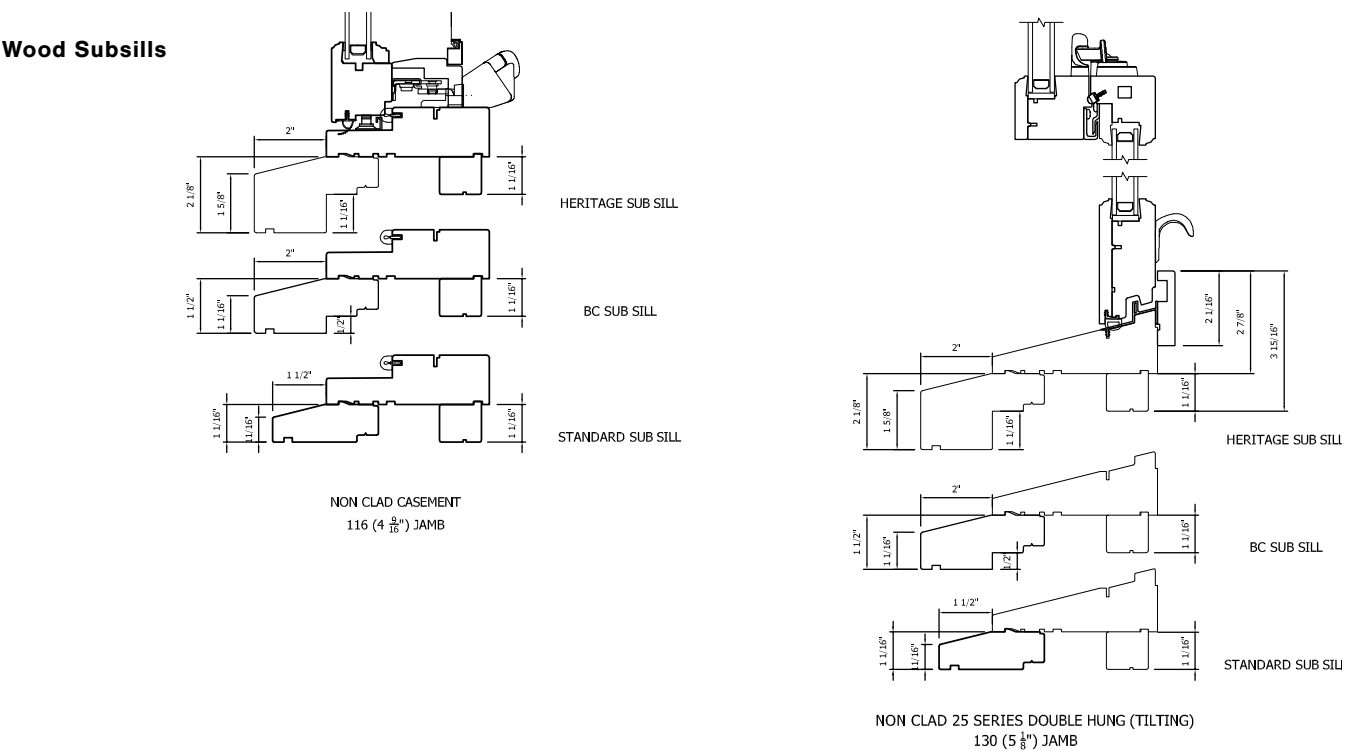
Wood Casings



Wood Flat Casings - Elevation View



Wood Subsills

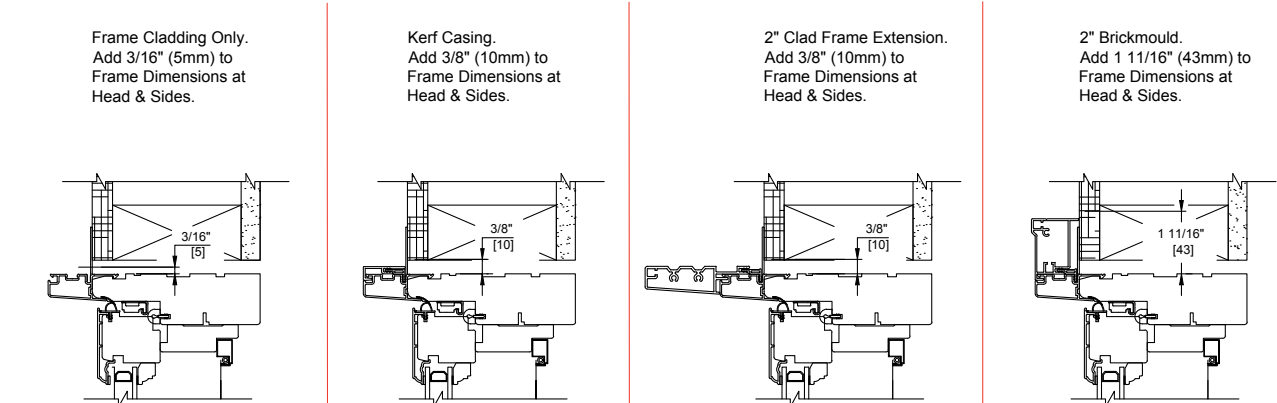


Note: • Other jamb widths available.

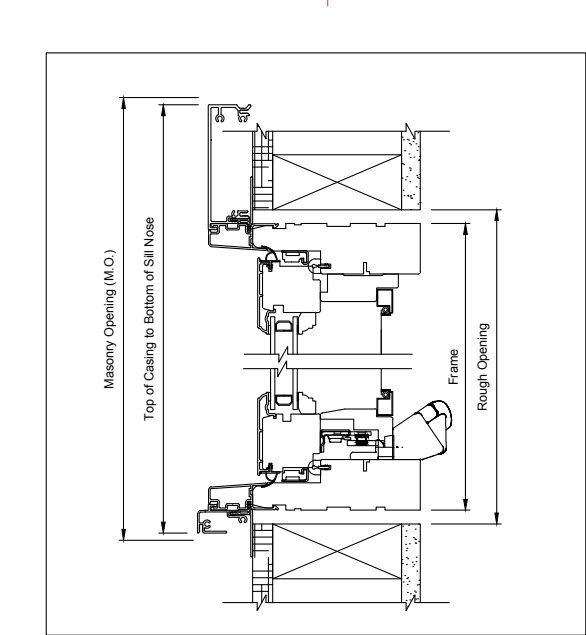
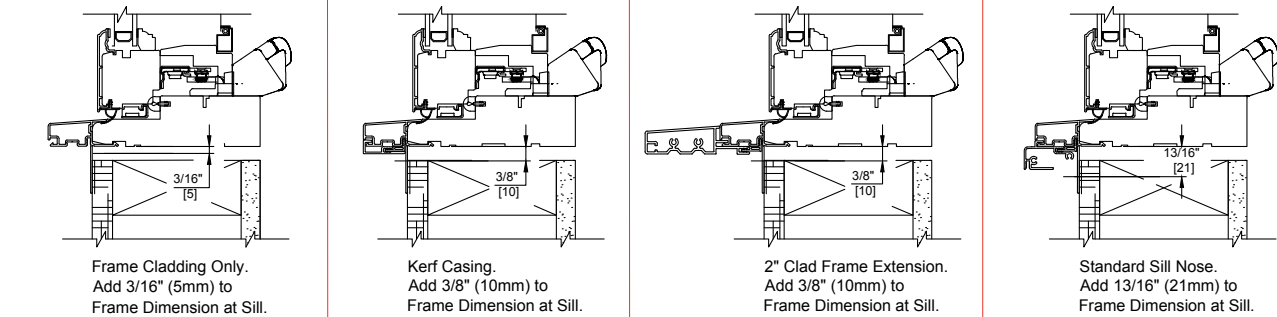
Information is subject to change without notice. | CAD download and installation instructions: www.loewen.com

Masonry Opening
Metal Clad

Casing Options

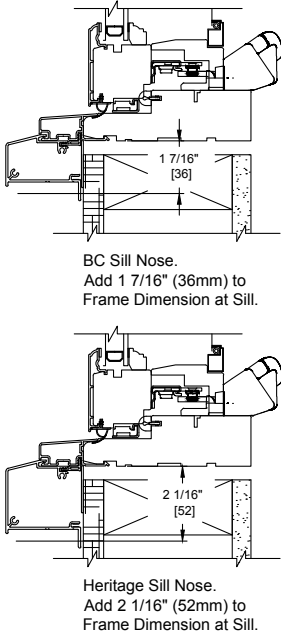


Sill Nose Options



Note: • Other jamb widths available.

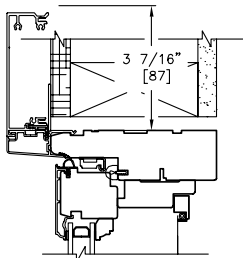
Information is subject to change without notice. | CAD download and installation instructions: www.loewen.com



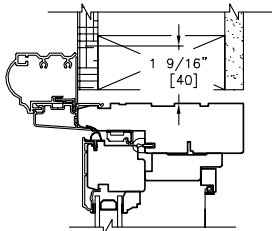
Masonry Opening
Metal Clad

Casing Options

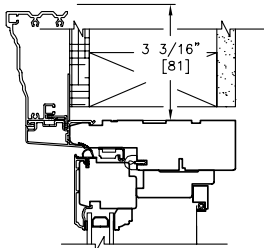
31/2" Flat Casing.
Add 3 7/16" (87mm) to
Frame Dimensions at
Head & Sides.



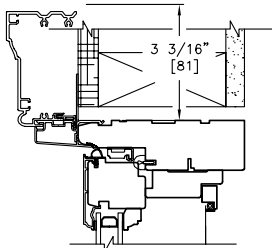
Nose & Cove Casing.
Add 1 9/16" (40mm) to
Frame Dimensions at
Head & Sides.



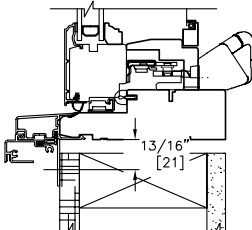
Adams Casing.
Add 3 3/16" (81mm) to
Frame Dimensions at
Head & Sides.



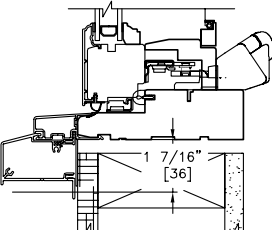
Williamsburg Casing.
Add 3 3/16" (81mm) to
Frame Dimensions at
Head & Sides.



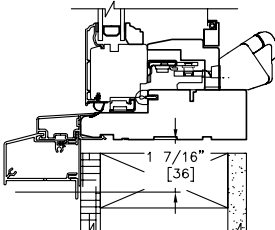
Sill Nose Options



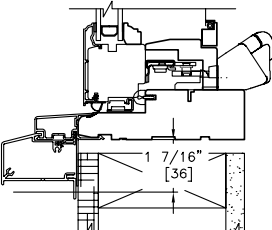
Standard Sill Nose.
Add 13/16" (21mm) to
Frame Dimension at Sill.



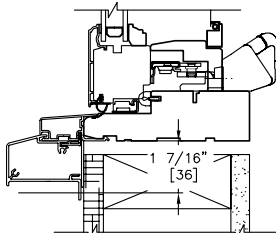
BC Sill Nose.
Add 1 7/16" (36mm) to
Frame Dimension at Sill.



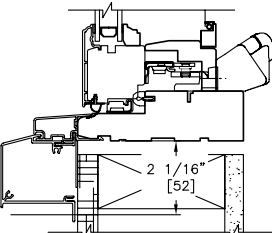
BC Sill Nose.
Add 1 7/16" (36mm) to
Frame Dimension at Sill.



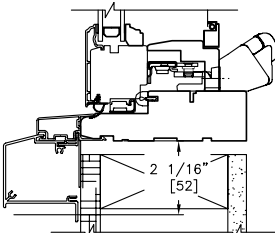
BC Sill Nose.
Add 1 7/16" (36mm) to
Frame Dimension at Sill.



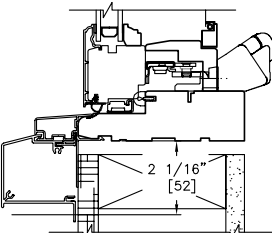
BC Sill Nose.
Add 1 7/16" (36mm) to
Frame Dimension at Sill.



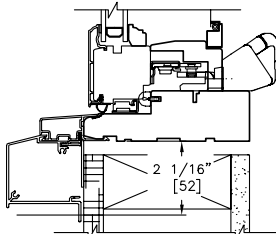
Heritage Sill Nose.
Add 2 1/16" (52mm) to
Frame Dimension at Sill.



Heritage Sill Nose.
Add 2 1/16" (52mm) to
Frame Dimension at Sill.



Heritage Sill Nose.
Add 2 1/16" (52mm) to
Frame Dimension at Sill.



Heritage Sill Nose.
Add 2 1/16" (52mm) to
Frame Dimension at Sill.

EXAMPLE #1: CA1 7515 with 2" Brickmould & Standard sill nose.
Frame dimensions, 29 1/2" (750mm) x 59 1/16" (1500mm).
Masonry width = 29 1/2" (750mm) + [1 11/16" (43mm) x 2] = 32 7/8" (836mm)
Masonry height = 59 1/16" (1500mm) + 1 11/16" (43mm) + 13/16" (21mm) = 61 9/16" (1564mm)

EXAMPLE #2: CA1 0918 with Adams casing & BC sill nose.
Frame dimensions, 35 7/16" (900mm) x 70 7/8" (1800mm).
Masonry width = 35 7/16" (900mm) + [3 3/16" (81mm) x 2] = 41 13/16" (1062mm)
Masonry height = 70 7/8" (1800mm) + 3 3/16" (81mm) + 1 7/16" (36mm) = 75 1/2" (1917mm)

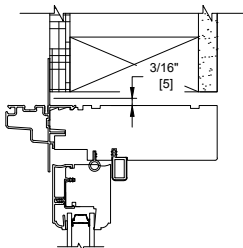
Note: • Other jamb widths available.

Information is subject to change without notice. | CAD download and installation instructions: www.loewen.com

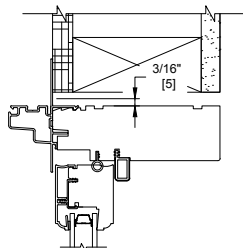
Masonry Opening
Metal Clad - Double Hung

Casing Options

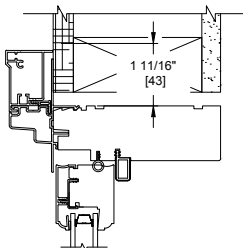
Frame Cladding Only.
Add 3/16" (5mm) to
Frame Dimensions at
Head & Sides.



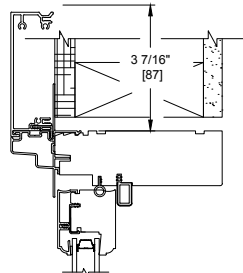
Frame Cladding Only.
Add 3/16" (5mm) to
Frame Dimensions at
Head & Sides.



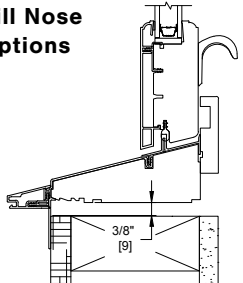
2" Brickmould.
Add 1 11/16" (43mm) to
Frame Dimensions at
Head & Sides.



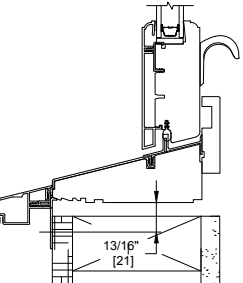
31/2" Flat Casing.
Add 3 7/16" (87mm) to
Frame Dimensions at
Head & Sides.



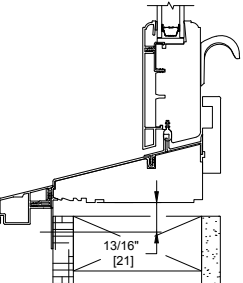
Sill Nose
Options



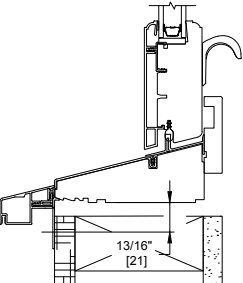
Multi Lite Sill Nose.
Add 3/8" (9mm) to Frame
Dimension at Sill.



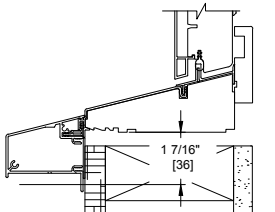
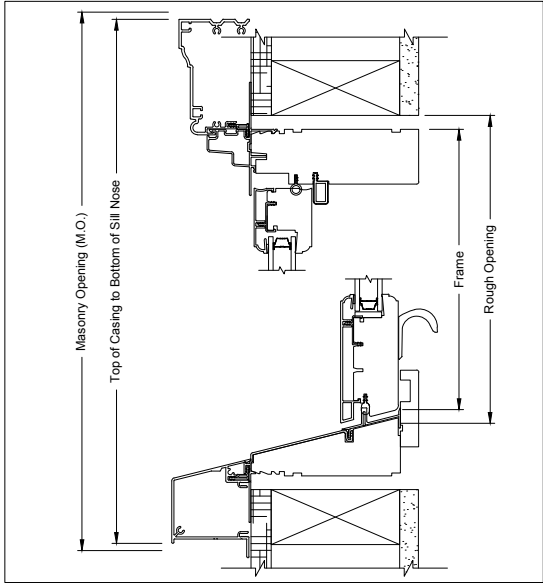
Standard Sill Nose.
Add 13/16" (21mm) to
Frame Dimension at Sill.



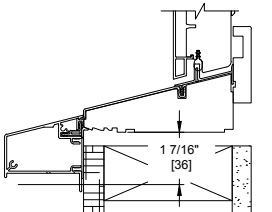
Standard Sill Nose.
Add 13/16" (21mm) to
Frame Dimension at Sill.



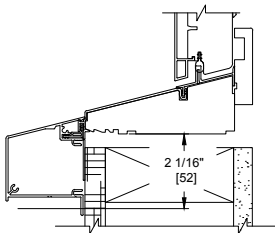
Standard Sill Nose.
Add 13/16" (21mm) to
Frame Dimension at Sill.



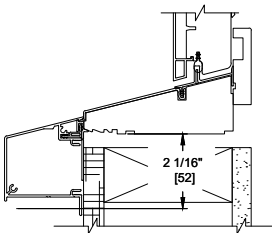
BC Sill Nose.
Add 1 7/16" (36mm) to
Frame Dimension at Sill.



BC Sill Nose.
Add 1 7/16" (36mm) to
Frame Dimension at Sill.



Heritage Sill Nose.
Add 2 1/16" (52mm) to
Frame Dimension at Sill.



Heritage Sill Nose.
Add 2 1/16" (52mm) to
Frame Dimension at Sill.

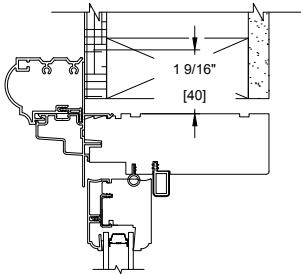
Note: • Other jamb widths available.

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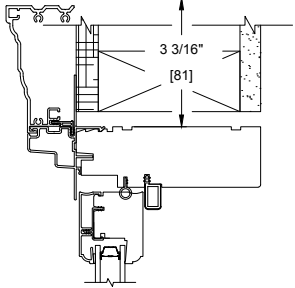
Masonry Opening
Metal Clad - Double Hung

Casing Options

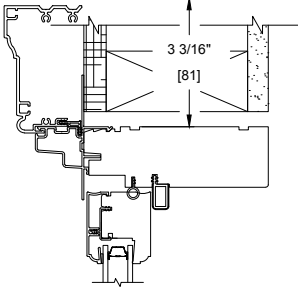
Nose & Cove Casing.
Add 1 9/16" (40mm) to
Frame Dimensions at
Head & Sides.



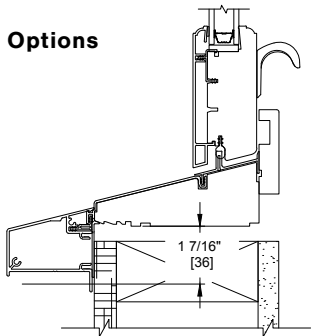
Adams Casing.
Add 3 3/16" (81mm) to
Frame Dimensions at
Head & Sides.



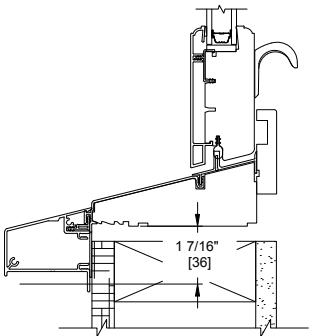
Williamsburg Casing.
Add 3 3/16" (81mm) to
Frame Dimensions at
Head & Sides.



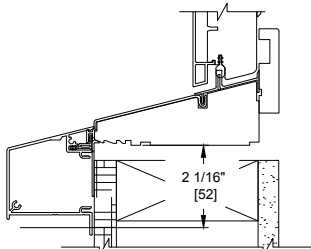
Sill Nose Options



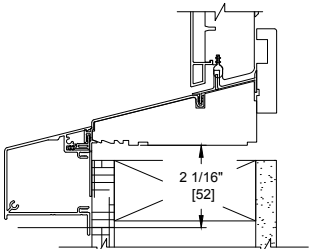
BC Sill Nose.
Add 1 7/16" (36mm) to
Frame Dimension at Sill.



BC Sill Nose.
Add 1 7/16" (36mm) to
Frame Dimension at Sill.



Heritage Sill Nose.
Add 2 1/16" (52mm) to
Frame Dimension at Sill.



Heritage Sill Nose.
Add 2 1/16" (52mm) to
Frame Dimension at Sill.

EXAMPLE #1: DH1 2828 with Frame Cladding Only & Standard sill nose.
Frame dimensions, 33 1/16" (859mm) x 64 1/4" (1632mm).
Masonry width = 33 13/16" (859mm) + [3/16" (5mm) x 2] = 34 3/16" (869mm)
Masonry height = 64 1/4" (1632mm) + 3/16" (5mm) + 13/16" (21mm) = 65 1/4" (1658mm)

EXAMPLE #2: DH1 3238 with Nose & Cove casing & Heritage sill nose.
Frame dimensions, 37 13/16" (961mm) x 84 1/4" (2140mm).
Masonry width = 37 13/16" (961mm) + [1 9/16" (40mm) x 2] = 40 15/16" (1041mm)
Masonry height = 84 1/4" (2140mm) + 1 9/16" (40mm) + 2 1/16" (52mm) = 87 7/8" (2232mm)

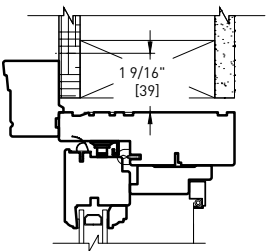
Note: • Other jamb widths available.

Information is subject to change without notice. | CAD download and installation instructions: www.loewen.com

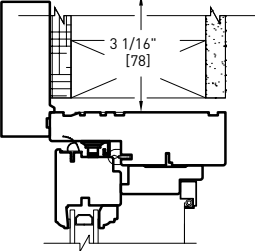
Masonry Opening
Wood Exterior

Casing Options

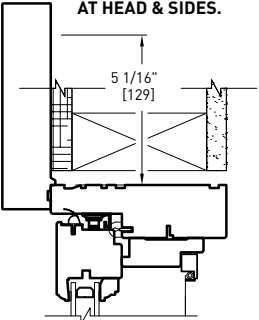
2" BRICKMOULD.
ADD 1 9/16" (39 mm) TO FRAME
DIMENSIONS AT HEAD & SIDES.



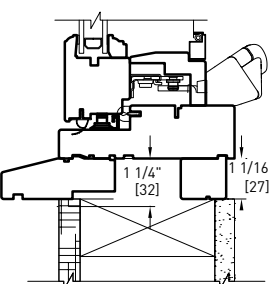
3 1/2" FLAT CASING.
ADD 3 3/16" (78 mm) TO FRAME
DIMENSIONS AT HEAD & SIDES.



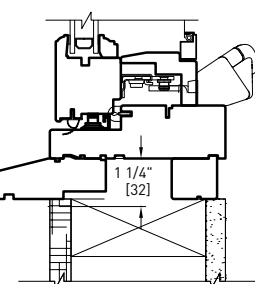
5 1/2" FLAT CASING.
ADD 5 1/16" (129 mm)
TO FRAME DIMENSIONS
AT HEAD & SIDES.



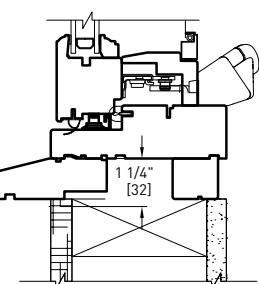
Sill Nose Options



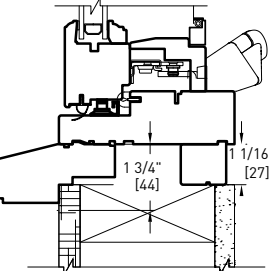
STANDARD SUB SILL.
ADD 1 1/4" (32 mm) TO
FRAME DIMENSION AT SILL.



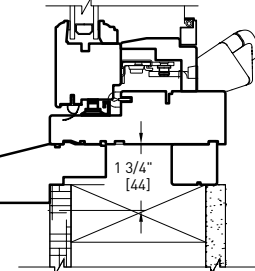
STANDARD SUB SILL.
ADD 1 1/4" (32 mm) TO
FRAME DIMENSION AT SILL.



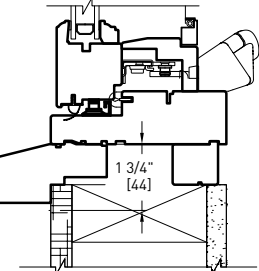
STANDARD SUB SILL.
ADD 1 1/4" (32 mm) TO
FRAME DIMENSION AT SILL.



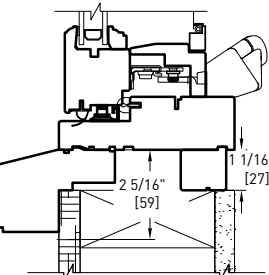
BC SUB SILL.
ADD 1 3/4" (44 mm) TO
FRAME DIMENSION AT SILL.



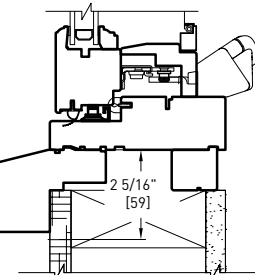
BC SUB SILL.
ADD 1 3/4" (44 mm) TO
FRAME DIMENSION AT SILL.



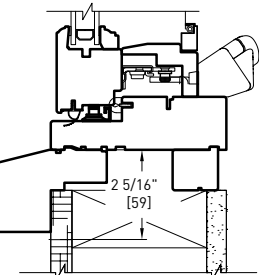
BC SUB SILL.
ADD 1 3/4" (44 mm) TO
FRAME DIMENSION AT SILL.



HERITAGE SUB SILL.
ADD 2 5/16" (59 mm) TO
FRAME DIMENSION AT SILL.



HERITAGE SUB SILL.
ADD 2 5/16" (59 mm) TO
FRAME DIMENSION AT SILL.



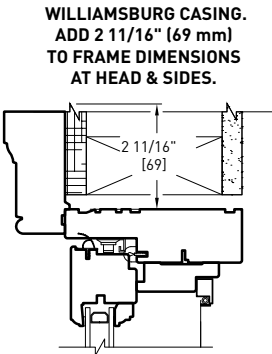
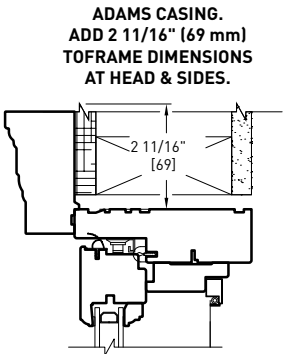
HERITAGE SUB SILL.
ADD 2 5/16" (59 mm) TO
FRAME DIMENSION AT SILL.

Note: • Other jamb widths available.

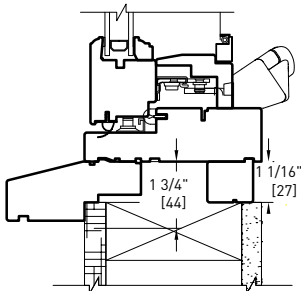
Information is subject to change without notice. | CAD download and installation instructions: www.loewen.com

Masonry Opening
Wood Exterior

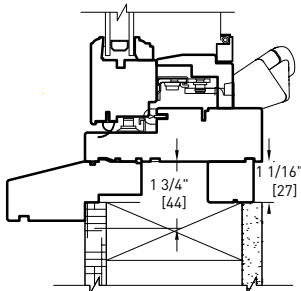
Casing Options



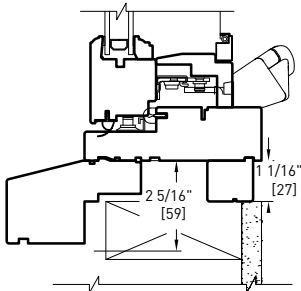
Sub Sill Options



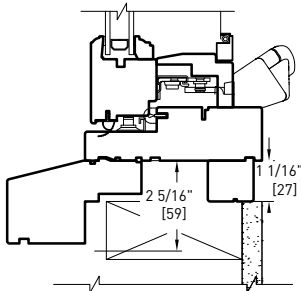
BC SUB SILL.
ADD 1 3/4" (44 mm) TO FRAME
DIMENSION AT SILL.



BC SUB SILL.
ADD 1 3/4" (44 mm) TO FRAME
DIMENSION AT SILL.



HERITAGE SUB SILL.
ADD 2 5/16" (59 mm) TO
FRAME DIMENSION AT SILL.



HERITAGE SUB SILL.
ADD 2 5/16" (59 mm) TO
FRAME DIMENSION AT SILL.

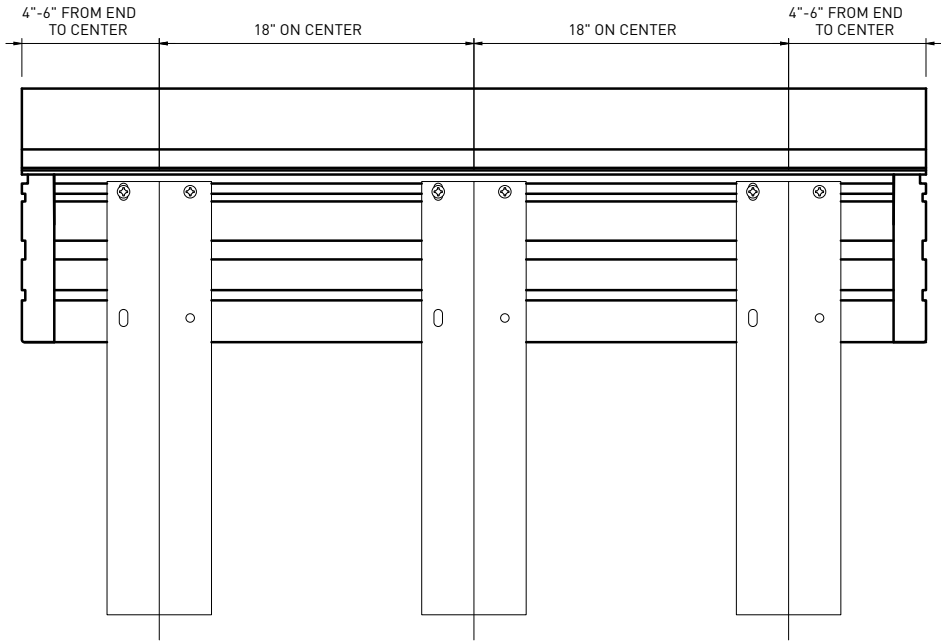
EXAMPLE #1: CA1 7515 with 2" Brickmould & Standard sill nose.
Frame dimensions, 29 1/2" (750mm) x 59 1/16" (1500mm).
Masonry width = 29 1/2" (750mm) + [1 9/16" (39mm) x 2] = 32 5/8" (828mm)
Masonry height = 59 1/16" (1500mm) + 1 9/16" (39mm) + 1 1/4" (32mm) = 61 15/16" (1571mm)

EXAMPLE #2: CA1 0918 with Adams casing & BC sill nose.
Frame dimensions, 35 7/16" (900mm) x 70 7/8" (1800mm).
Masonry width = 35 7/16" (900mm) + [2 11/16" (69mm) x 2] = 40 13/16" (1038mm)
Masonry height = 70 7/8" (1800mm) + 2 11/16" (69mm) + 1 3/4" (44mm) = 75 5/16" (1913mm)

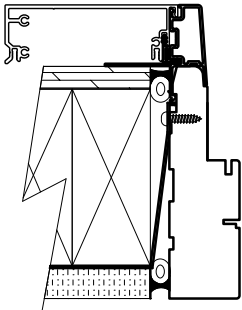
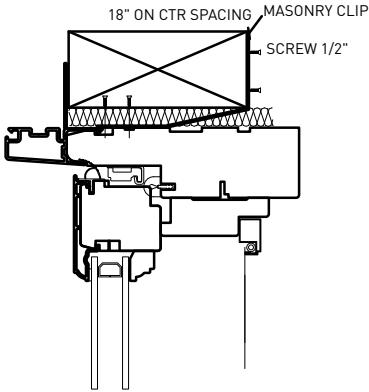
Note: • Other jamb widths available.

Information is subject to change without notice. | CAD download and installation instructions: www.loewen.com

Masonry Clip Installation
Universal

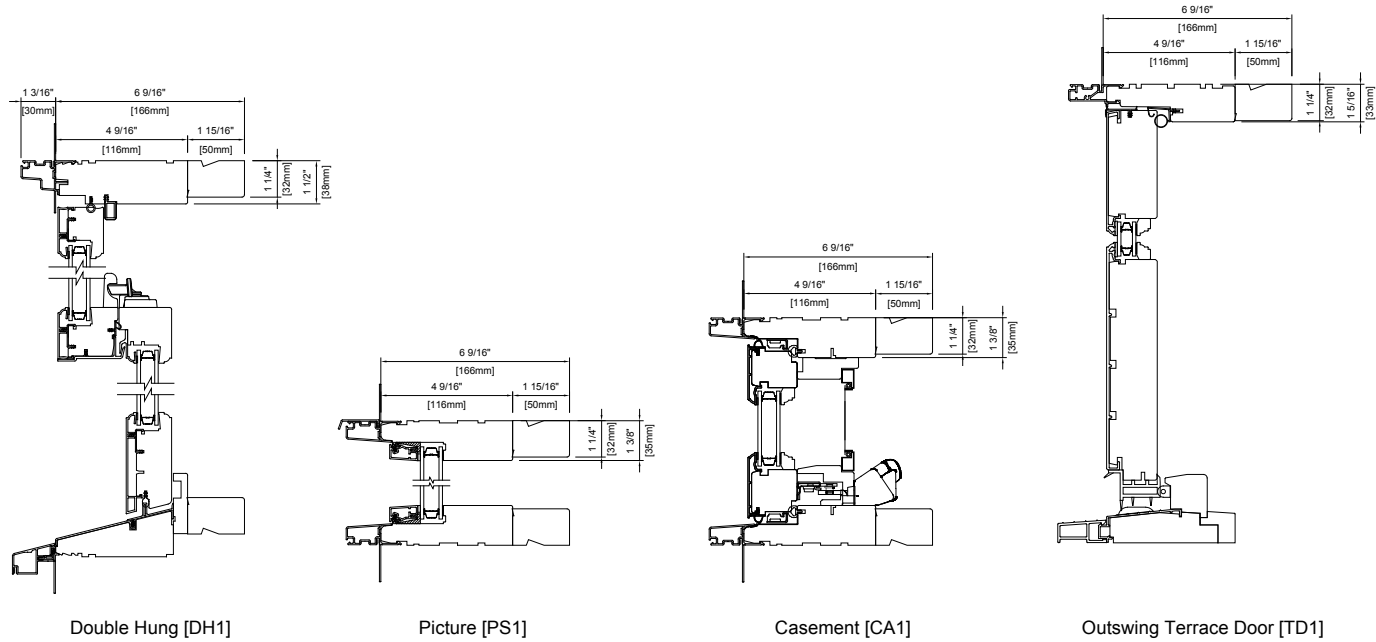


1. Start installation of masonry clips 4" to 6" from the ends of the unit to the center of the clip.
2. After placing both of the outermost clips on the unit, install the remainder of the clips moving inward to the center of the unit, placing each clip approximately 18" on center.
3. Fasten clips to unit using two 5/8" #8 Panhead screws.

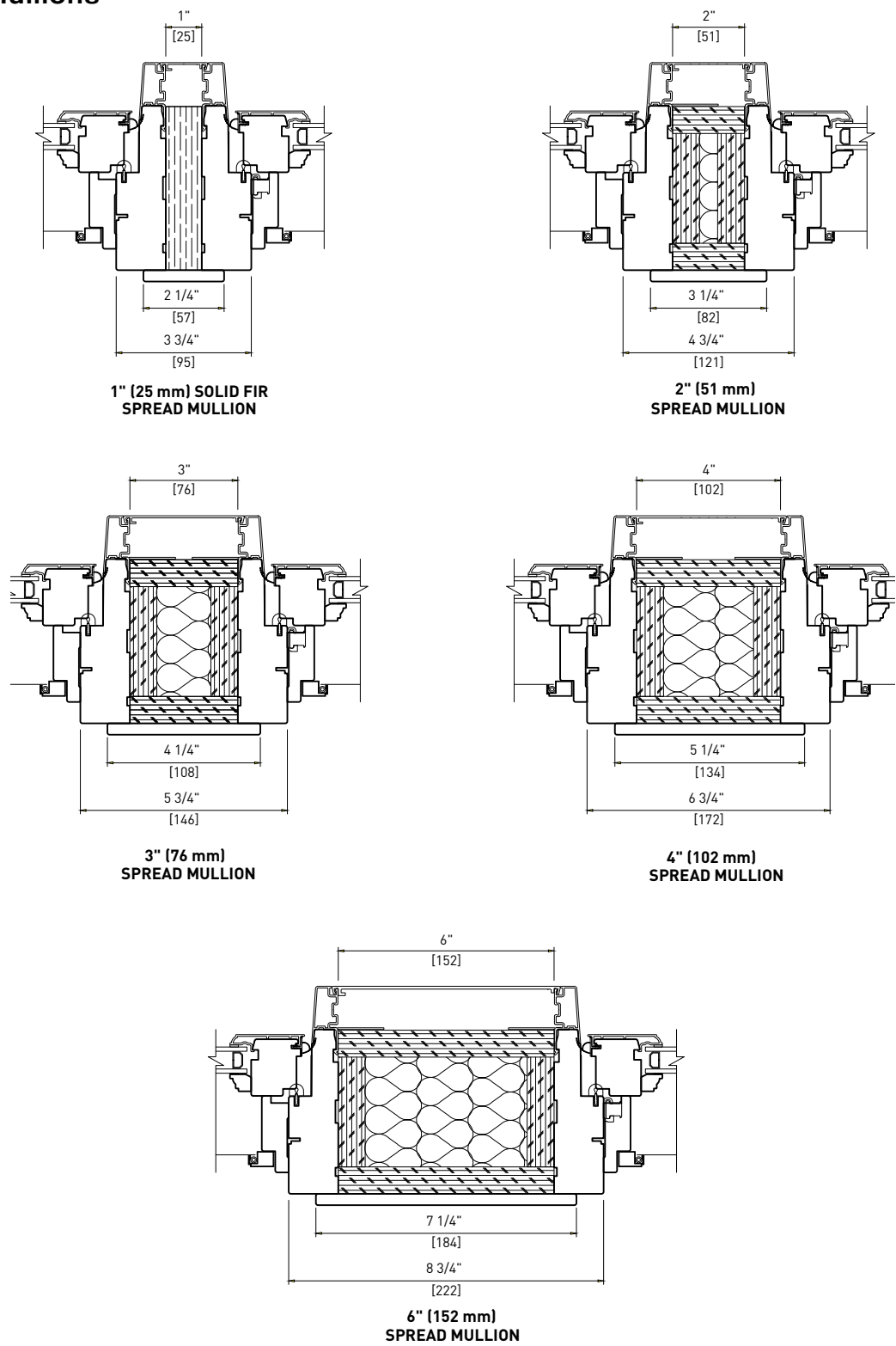


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32mm Jamb
Extension (1 1/4")



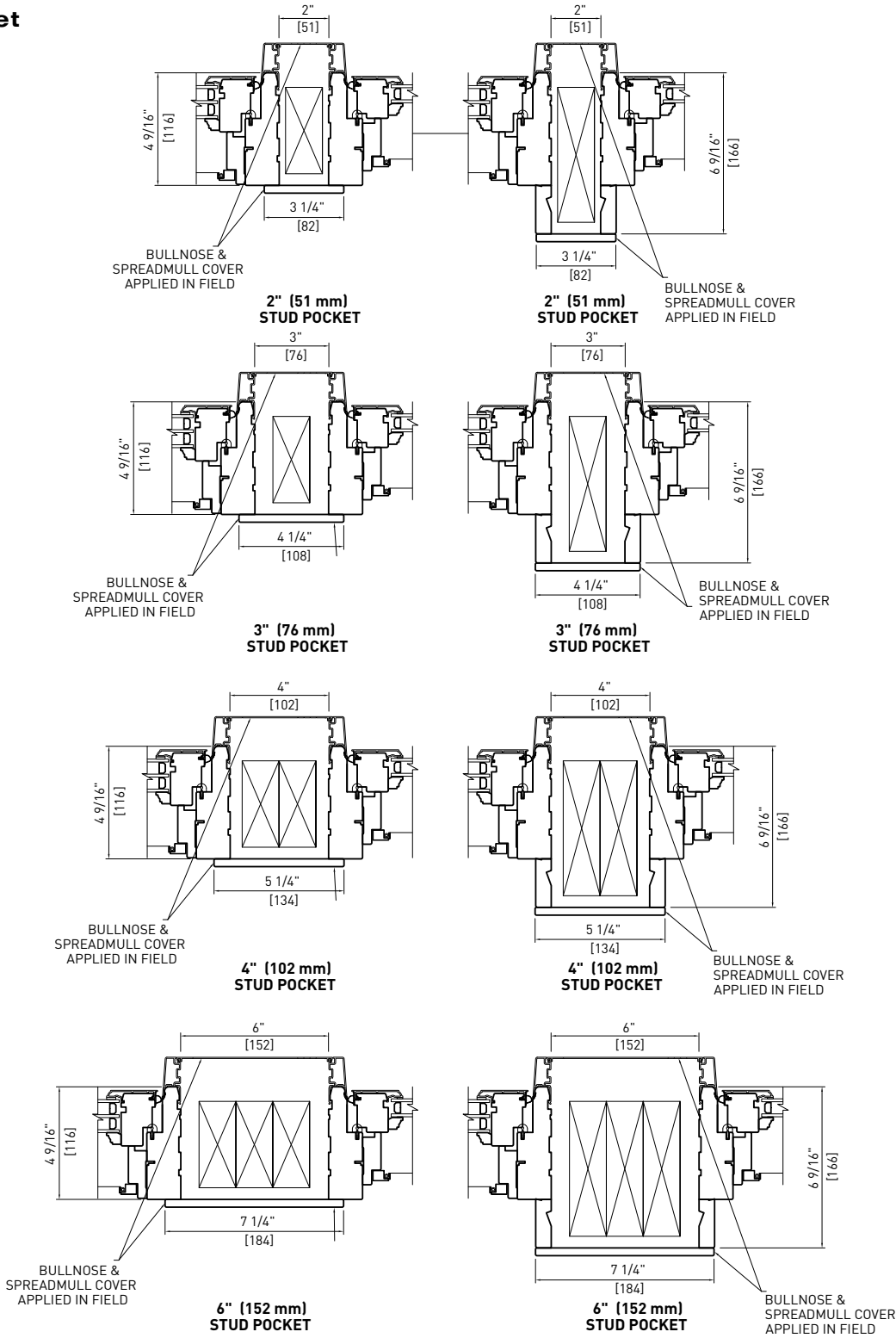
Metal Clad
Spread Mullions



Note:

- Other jamb widths available.
- All dimensions to have +/- 1/16" (2mm) tolerance.

Metal Clad Stud Pocket

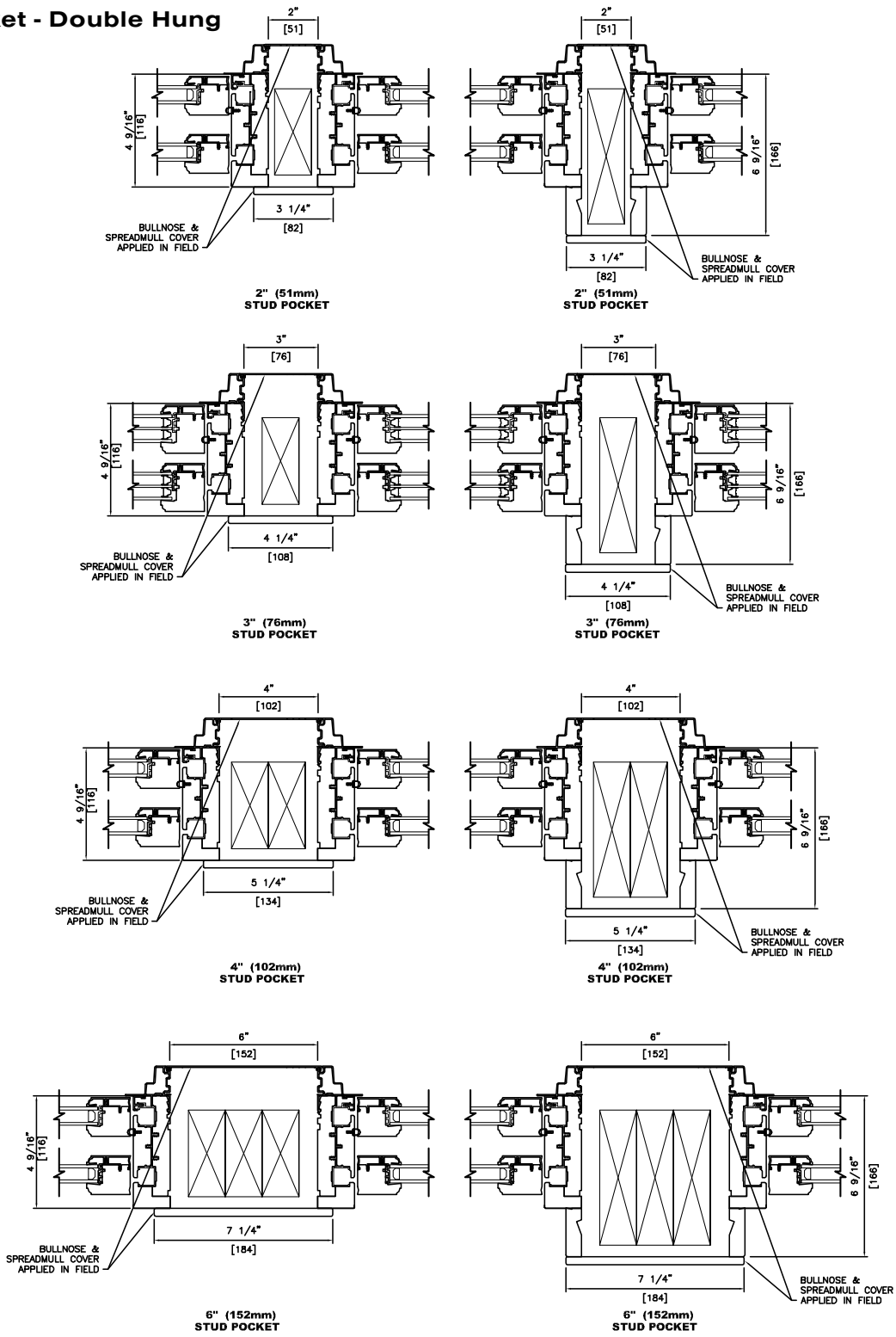


Note:

- Other jamb widths available.
- All dimensions to have +/- 1/16" (2mm) tolerance.
- Framing member designed and supplied by others.

Information is subject to change without notice. | CAD download and installation instructions: www.loewen.com

Metal Clad Stud Pocket - Double Hung

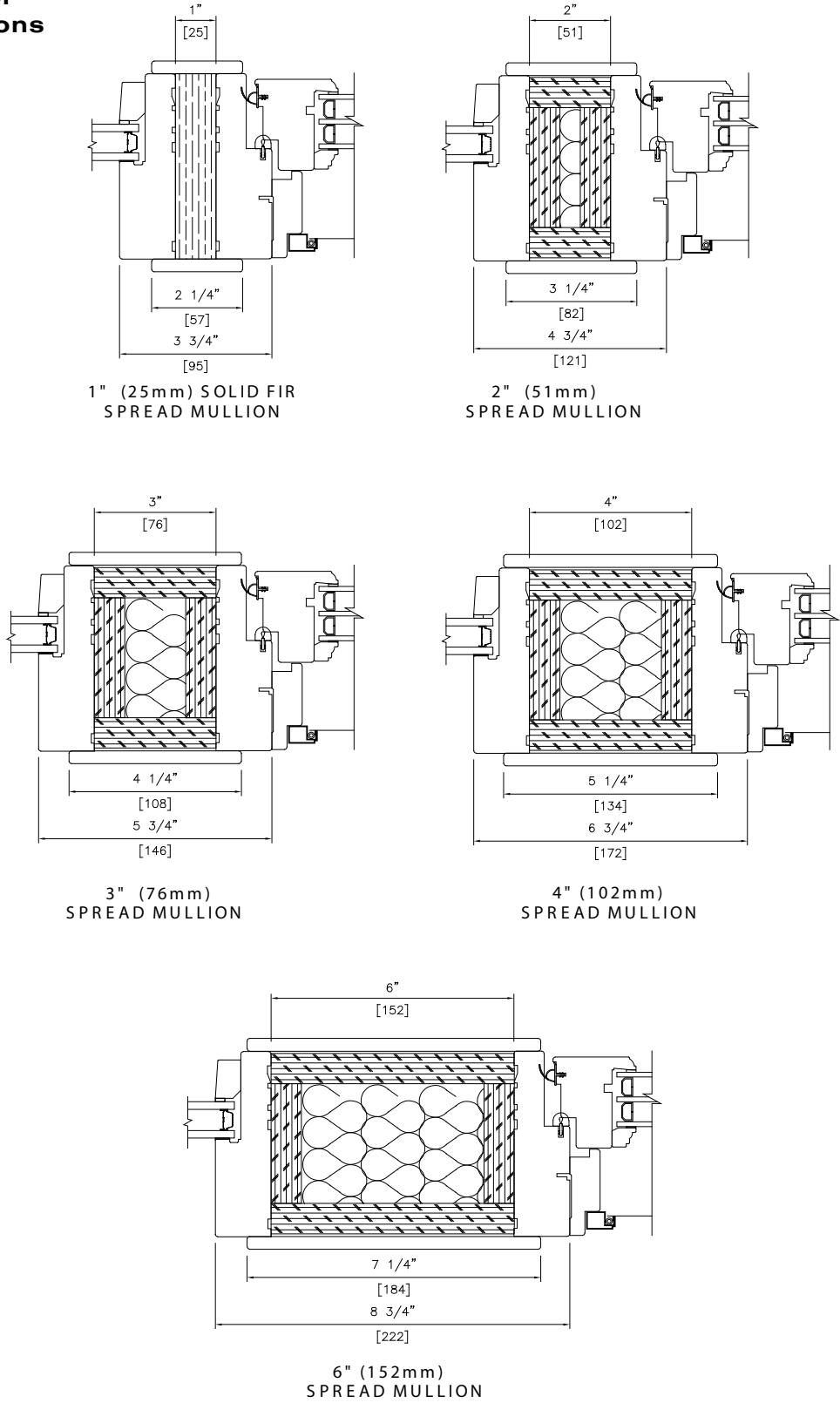


Note:

- Other jamb widths available.
- All dimensions to have +/- 1/16" (2mm) tolerance.
- Framing member designed and supplied by others.

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Wood Exterior
Spread Mullions

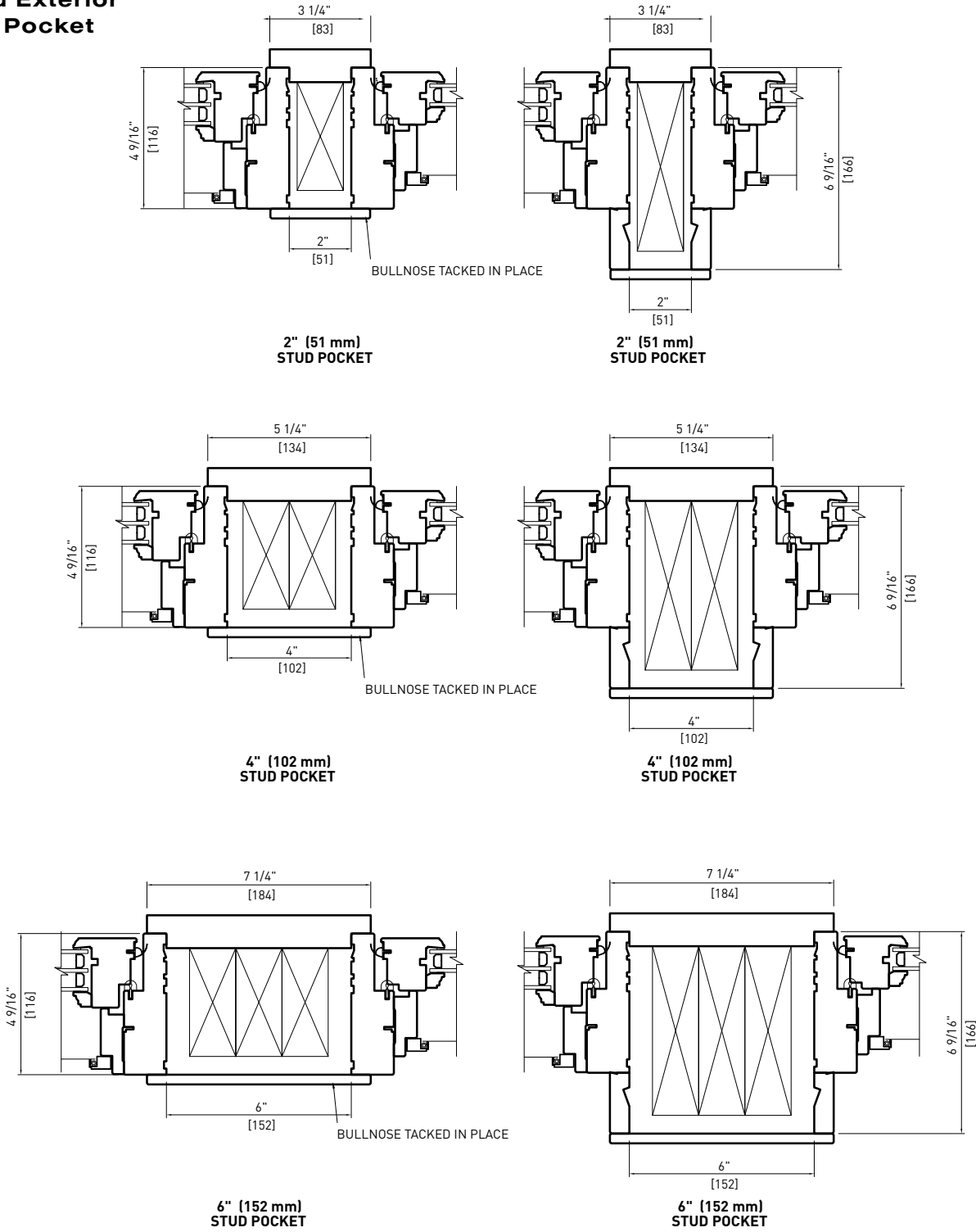


Note:

- Other jamb widths available.
- All dimensions to have +/- 1/16" (2mm) tolerance.

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Wood Exterior
Stud Pocket

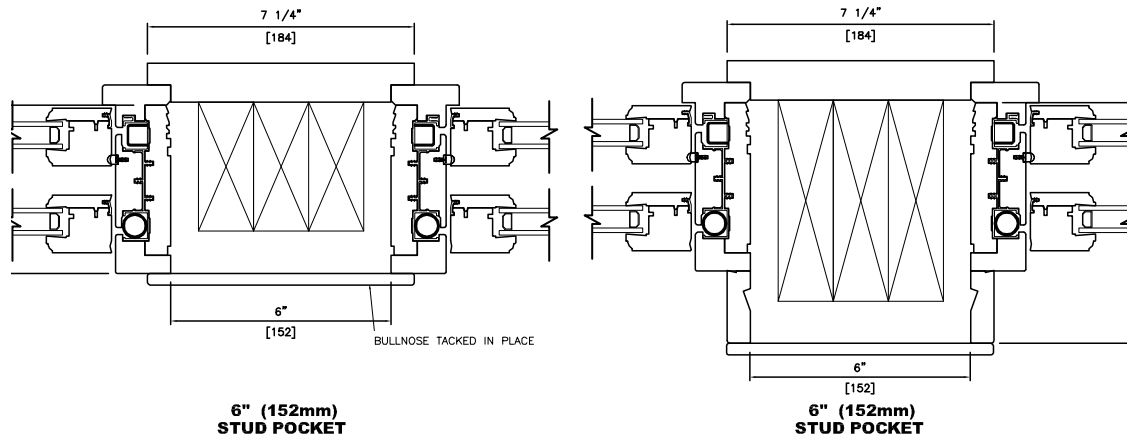
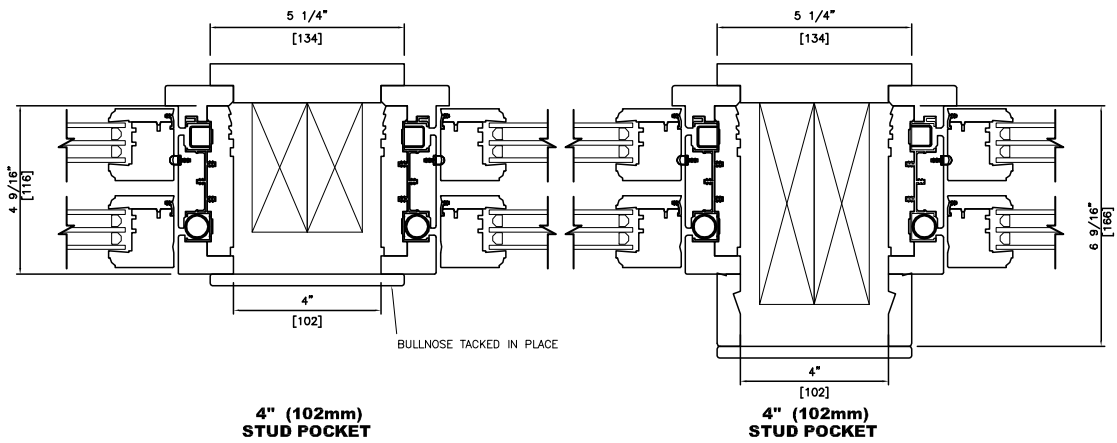
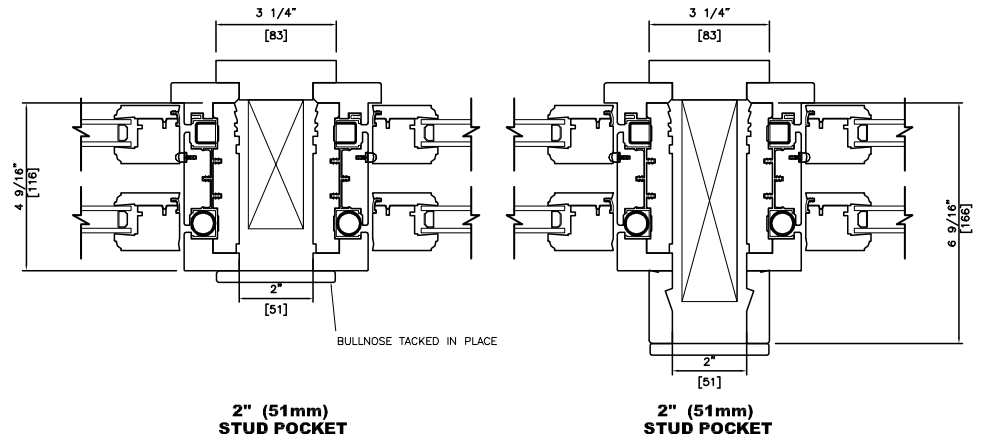


Note:

- Other jamb widths available.
- All dimensions to have +/- 1/16" (2mm) tolerance.
- Framing member designed and supplied by others.

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Wood Exterior
Stud Pocket - Double Hung



Note:

- Other jamb widths available.
- All dimensions to have +/- 1/16" (2mm) tolerance.
- Framing member designed and supplied by others.

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