

PASSION · INSPIRATION · INNOVATION · PERFORMANCE · DEDICATION



**StormForce™**  
SERIES

## StormForce™ Technical Guide

A technical guide to Loewen StormForce window and door details, sizing and specifications.

[www.loewen.com](http://www.loewen.com)

*Loewen*



WE REALIZE THAT EVERY PROJECT BEGINS  
FROM AN INNATE DESIRE TO CREATE  
SOMETHING GREAT.

Select standard window and door configurations are represented in this Loewen Technical Guide.  
Numerous custom opportunities exist. Please contact your Authorized Loewen Dealer.

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**FRONT COVER:** WCI Architecture & Land Planning | Location: Orlando, FL

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**StormForce**  
SERIES

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## STORMFORCE SERIES

### MAXIMUM PROTECTION FROM COASTAL ENVIRONMENTS

**LOEWEN STORMFORCE PRODUCTS** take the performance of our standard windows and doors to the extreme, offering you fenestration structurally enhanced to meet - and exceed - International Residential Code, Florida Building Code and other Coastal requirements, including the stringent Dade County certification. 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.

StormForce is available in Casement, Awning, Picture/Direct Set, Specialty Windows, Double/Single Hung, Patio Doors, Terrace Doors and LiftSlide Doors.

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For the best performance, we use Coastal Douglas Fir (*Pseudotsuga Menziesii*) or Mahogany in our frames and sashes. To enhance our woods' high natural resistance to moisture absorption, decay and insect infestation, every Loewen wood component is treated with a water repellent/wood preservative sealant before assembly.

These tightly grained woods give our windows a rich, warm texture and they're also naturally tough and resilient, yet remarkably workable, meaning they are ideal for precision milling and capable of holding the smallest, most intricate detailing.



#### DOUGLAS FIR DURABILITY

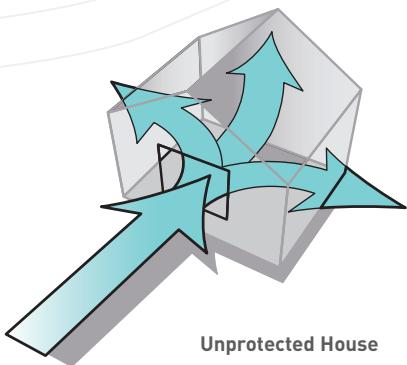
Douglas Fir outperforms Hemlock & Pine.

	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
	Weight Over Volume	Inch	Psi	Psi	lbs	USFS Grade
<b>Douglas Fir</b>	<b>0.48</b>	<b>31.0</b>	<b>7,230</b>	<b>800</b>	<b>710</b>	<b>Moderate</b>
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

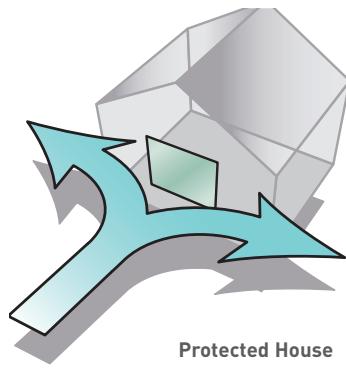
#### DOUGLAS FIR FASTENER RETENTION

This chart shows the force required to remove fasteners.

	Nail	Screw	Hinge
<b>Douglas Fir</b>	<b>189 lbs</b>	<b>527 lbs</b>	<b>743 lbs</b>
Ponderosa Pine	98 lbs	392 lbs	486 lbs



Unprotected House



Protected House

All the components in a StormForce window or door provide a number of additional benefits: enhanced security, excellent ultraviolet ray protection and increased sound attenuation.

Windborne wreckage can impact homes during windstorms and hurricanes, with gusting, pervasive winds to follow. To protect the integrity and interior of homes, windows and doors must resist penetration and remain in place and intact. Impact designed laminated-glass windows and doors pass windborne debris impact tests, and even when broken, the glass fragments remain integral, adhering to the plastic interlayer, to preserve the building envelope.

With impact products rated up to DP 85, Loewen's superior design is able to withstand 9,000 cycles of positive and negative wind loading, 105 psf structural loading and the impact of a D-Missile\* test.

#### HIGHLIGHTS:

- Maximum coastal protection - purposely designed to withstand all of nature's harshest elements - hurricanes, tropical storms, high winds, driving rain, sweltering heat and freezing cold.
- Unseen structural upgrades- no unsightly brackets and/ or locks commonly seen on coastal products.
- Versatile and enhanced styling - Douglas fir wood interior standard with the choice of extruded aluminum cladding.
- Optimal thermal performance - Heat-Smart (Low E) insulated glazing, laminated, and reflective glazing options which provide comfort, shading, and peace of mind.

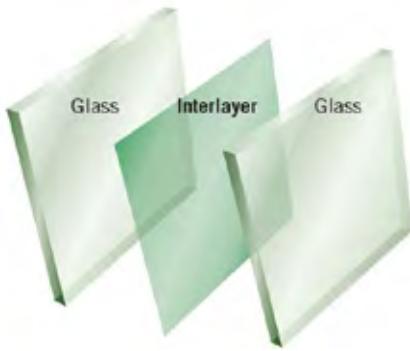
StormForce delivers impact resistance, and superior thermal performance in an insulated glazing configuration with laminated glass products. StormForce frames and IG units are weather proof against all water and air infiltration and the energy efficient design meets specific regional building codes for U-Values in coastal areas from New York to Texas.

**\*D-Missile certified products are tested to withstand impact from a 9 pound 2 x 4 stud, 8 feet in length, at an impact speed of 50 feet/second. Products are then tested to withstand 9,000 positive and negative wind loading cycles without failure of the building envelope.**

## STORMFORCE IMPACT GLAZING

All Loewen StormForce products use industry leading laminated glass produced by bonding a combination of plastic vinyl layers and polyester film between two panes of glass into a single sheet. Laminated glass has the look of ordinary glass but offers a fortification against accidental impact, forced entry, sun damage and noise that far surpasses that of standard glass.

Glazing options on Impact products include PVB and SGP in clear layers. Also available is a LoE<sup>3</sup> coating which helps reduce solar heat gain while being virtually invisible.



StormForce Terrace Door

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## HEAT-SMART® WINDOW SYSTEMS

Heat-Smart® Window Systems offer varying levels of thermal protection. They also protect furnishings by screening out much of the damaging ultraviolet radiation that causes fading and related damage. The charts on the next page show the comparative performance of each Loewen Window System. Heat-Smart® is a high-performance glazing system that offers great thermal value in a variety of climate zones.



### FLORIDA BUILDING CODE

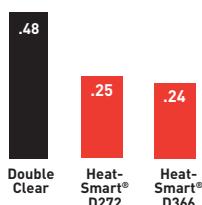
The Florida Building Code is the strictest code in the United States for resistance to wind-borne debris and wind-loading for fenestration products. Many Loewen certified products meet high velocity wind zone 4 standards.



## CLEAR DOUBLE COMPARED WITH HEAT-SMART® IMPACT GLASS UNITS

### U-VALUE\*

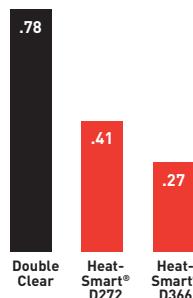
This chart illustrates the resistance of heat transfer through the glass. Lower U-Value indicates greater insulating capabilities. U-Value measured at center of glass.



Double Pane

### SOLAR HEAT GAIN (SHGC)\*

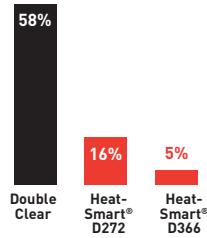
This chart measures the ratio of solar heat gain through a glazing system compared to an unobstructed opening.



Double Pane

### UV TRANSMITTANCE\*

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



Double Pane

\*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.

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## LOW E COATING OPTIONS

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

### LoE<sup>3</sup> – 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 (low E cubed 366)

### LoE<sup>2</sup> – 272 ALL-CLIMATE

- Year-round, well balanced performance and comfort
- Better insulator (low u-value) and moderate solar heat blockage
- Two layers of silver (low E squared 272)

### LoE<sup>3</sup> – 340 ULTIMATE SOLAR CONTROL

- Greatly reduces oppressive solar heat gain & glare
- Best insulator (low u-value) and best solar control (low SHGC)
- Three layers of silver

### LoE<sup>2</sup> – 240 GLARE CONTROL

- Controls glare and blocks oppressive solar heat
- Better insulator (low u-value) and best solar control (low SHGC)
- Two layers of silver

### LoE<sup>2</sup> – 180 PASSIVE SOLAR GAIN

- Ideal for passive solar applications
- Good insulator (low u-value) and high solar heat gain
- One layer of silver



## STORMFORCE WINDOWS



For beautiful windows that can protect from environmental hazards and come in all custom sizes and shapes Loewen StormForce is the correct choice. Is year-round, all-season thermal protection a must have? StormForce can also be made with insulating glass and tinted configurations. This will reduce the total window U-factor, protecting against unwanted heat loss during seasons of cooler temperatures.

- Engineered Douglas Fir or Mahogany with the choice of extruded aluminum cladding.

### LOEWEN STORMFORCE METAL CLAD IMPACT PRODUCTS

Product Model	Width (inches)	Height (inches)	DP Ratings (Single Units)	FL #	Options					Shapes						
					Dual IG Glazing	Monolithic Glazing	Douglas Fir	Mahogany	Midrail	Rectangular	Camberstop	Half Round	1/4 Round	Full Round	Extended 1/2 Round	Extended 1/4 Round
Awning (AW)	59.1	30.0	+85/-85	13351	•		•	•		•						
	59.1	36.0	+70/-70	13351	•		•	•		•						
	47.25	47.25	+70/-70	17485	•		•	•		•						
Push-Out Awning® (PAW)	39.4	32.4	+85/-85	13351	•		•	•		•						
	47.25	39.4	+70/-70	13351	•		•	•		•						
Casement (CA)	29.4	70.9	+85/-85	13104	•	•	•	•		•	•			•	•	
	35.4	70.9	+70/-70	13104	•	•	•	•		•	•			•	•	
Push-Out Casement (PCA)	29.4	70.9	+85/-85	13104	•	•	•	•		•	•			•	•	
	35.4	70.9	+70/-70	13104	•	•	•	•		•	•			•	•	
Casement Fixed (CAF)	59.1	94.5	+70/-70	13484	•		•	•		•	•	•	•	•	•	•
	94.5	59.1	+70/-70	13484	•		•	•		•	•	•	•	•	•	•
Picture (PS)	59.1	118.1	+85/-85	12497	•		•	•		•		•	•	•	•	•
	118.1	59.1	+85/-85	12497	•		•	•		•		•	•	•	•	•
Double Hung 'Liberty' (DH)	37.8	120.0	+55/-55	14692	•		•	•		•						
	45.8	72.0	+55/-65	14692	•		•	•		•						
Single Hung 'Liberty' (SH)	37.8	120.0	+55/-55	14693	•		•	•		•	•			•		
	45.8	72.0	+55/-65	14693	•		•	•		•	•			•		
Double Hung Fixed (DF)	60.0	120.0	+55/-65	14694	•		•	•		•	•	•		•	•	
	72.0	100.0	+55/-65	14694	•		•	•		•	•	•		•	•	
	100.0	72.0	+55/-65	14694	•		•	•		•	•	•		•	•	
	120.0	60.0	+55/-65	14694	•		•	•		•	•	•		•	•	
Double Hung Transom (DT)	37.0	120.0	+55/-65	14695	•		•	•		•	•	•		•	•	
	66.0	66.0	+55/-65	14695	•		•	•		•	•	•		•	•	
	120.0	37.0	+55/-65	14695	•		•	•		•	•	•		•	•	

## STORMFORCE DOUBLE HUNG WINDOWS

- Loewen Double Hung window has been designed to complement the depth and character of the traditional North American home. We've combined superior strength and durability with maximum coastal protection and innovative efficiency options to deliver a window that not only matches the look of your residence, but also delivers the progressive performance it deserves.
- Innovative balance system allows windows to open and close smoothly.
- Single-handed lock/tilt mechanism allows for inward tilting of the sash for easy cleaning.
- Integrated structural sill block and metal nailing flange allows for enhanced moisture management and maximum protection against water infiltration.
- Thermally broken aluminum sill and glazing options for maximum energy efficiency.
- Heavy meet rail improves performance when struck by a D-Missile
- Interlock system and integral sill block details enhance the structural integrity of the window.
- Flexible bulb weather seal for optimal performance.



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## STORMFORCE DOORS



**LOEWEN STORMFORCE DOOR PANELS** combine rugged performance with architectural versatility. Available in Swinging Terrace and French Terrace Doors, Sliding Patio & French Patio Doors and LiftSlide Doors with all the features required for coastal protection with legendary Loewen Douglas Fir or Mahogany construction. StormForce doors equipped with standard multi-point hardware and stainless steel exposed components provide robust security and superior environmental performance.

### LOEWEN STORMFORCE METAL CLAD IMPACT PRODUCTS

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Product Model	Width [inches]	Height [inches]	DP Ratings (Single Units)	FL #	Options											
					Dual IG Glazing	Monolithic Glazing	Douglas Fir	Mahogany	Midrail	Rectangular	CamberTop	Half Round	1/4 Round	Full Round	Extended 1/2 Round	Extended 1/4 Round
Sliding Patio (WP2)	94.5	94.5	+70/-70	12531	•		•	•		•						
Sliding French Patio (FP2)	94.5	106.3	+43/-43	13103	•		•	•		•						
	72.5	106.3	+55/-55	13103	•	•	•	•	•	•						
Terrace Outswing (TD1)	37.9	111.4	+70/-70	14369	•	•	•	•	•	•	•					
	43.9	99.4	+70/-70	14369	•	•	•	•	•	•	•					
Terrace Outswing (TD2) Hinged on jamb side	75.1	111.4	+70/-70	14369	•	•	•	•	•	•	•					
Terrace Fixed Outswing (TDF)	43.9	111.4	+70/-70	14369	•	•	•	•	•	•	•					
Terrace Inswing (TD1)	36.4	96.0	+55/-65	17221	•		•	•			•					
French Terrace Outswing (FD2)	75.1	111.4	+70/-70	14369	•	•	•	•	•	•	•					
	87.1	99.4	+70/-70	14369	•	•	•	•	•	•	•	•	•	•	•	
French Terrace Outswing (FD2) 1/2 Round	75.1	111.4	+50/-50	14369	•	•	•	•	•	•	•					
French Terrace Inswing (FD2)	72.0	96.0	+55/-65	17221	•		•	•			•					
Terrace Transom (TDT1 or TDT2) 10' included	94.5	48.0	+70/-70	14370	•	•	•	•		•	•				•	
French Terrace Transom (FDT2) 10' included	94.5	48.0	+70/-70	14370	•	•	•	•		•	•			•	•	
10' Terrace Outswing (TD1)	37.9	123.4	+60/-60	14367	•	•	•	•		•						
10' Terrace Outswing (TD2) Hinged on jamb side.	75.0	123.4	+60/-60	14367	•	•	•	•		•						
10' French Terrace Outswing (FD2)	75.0	123.4	+60/-60	14367	•	•	•	•		•						
LiftSlide (per panel)	42.0	139.6	+70/-70	13353	•	•	•	•		•						
LiftSlide (per panel)	60.0	139.6	+50/-50	13353	•	•	•	•		•						

## STORMFORCE TERRACE AND FRENCH TERRACE DOORS

No other hinged door performs in coastal environments like a Loewen Terrace door. Traditional and French. Traditional Terrace Doors hinge on the jamb so that one panel is fixed and the other operates. By contrast, French Terrace Doors are hinged on the outside to allow both doors to operate from the middle. Outswing versions of both styles are available as additional protection options.

Handle-activated stainless steel head and sill shoot bolts are standard with StormForce series. Additional lock points increase structural air/water performance and provide added security.

- Insulated sealed unit provides energy efficiency as well as impact resistance.
- Stainless steel support plates on top and bottom panels enhance structural integrity.
- Thick interlayer designed to resist Zone 3 D-Missile impact.
- Utilizes five-point stainless steel locking system, stainless steel strike plates and a sturdy astragal for superior impact performance.
- Tall sill enhances protection against water infiltration.

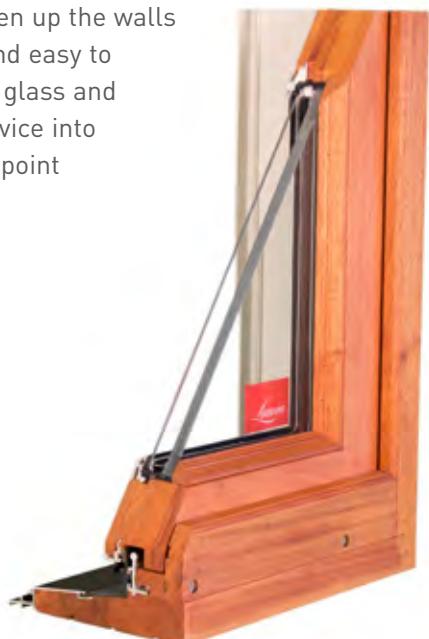


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## STORMFORCE SLIDING PATIO DOORS

Functioning like large moving windows, Loewen Sliding Patio doors can open up the walls for larger living space. StormForce doors are weatherproof, safe, secure and easy to operate. Loewen uses laminated sash construction, thick, tempered safety glass and smooth tandem rollers. For added protection, Loewen builds an anti-lift device into every patio door. An optional foot lock is also available, as is manual three-point hardware.

- Anti-lift device.
- Zero clearance required.
- Standard integral sliding screens available.
- Standard multi-point locking hardware & foot lock mechanism.
- 2 1/4" thick sliding panels.
- Silicone-treated, woven pile and foam-filled Q-lon weatherstripping system.



## STORMFORCE LIFTSIDE DOORS

The Loewen LiftSlide allows expansive glass panels to roll smoothly and easily during operation. With the touch of a hand, the LiftSlide mechanism rotates down to seal against water infiltration. LiftSlide Doors can be located in areas of extreme exposure where homeowners want a coastline, mountain or lakefront vistas with minimal sightline interference.

With the high structural integrity and performance of LiftSlide doors, only raised threshold is available in StormForce.

For superior water protection an additional sill riser is available.

**LIFTSIDE RAILS AND STILES** are comprised of two various constructions; all aluminum, and an aluminum/wood hybrid. Opening panels are equipped with 3G corrosion resistant stainless steel wheel assemblies with flat deformation resistant wheels and precision bearings. Aircraft grade aluminum extrusions with VG Douglas Fir Interior (Mahogany option available).

- Aluminum Corrosion resistant track with integral drains.
- Robust hardware handles a maximum weight of 850 lbs per panel maximum panel size with laminate glass is 60" (1524 mm) wide or 139 9/16" (3545 mm) tall and 50 square feet of glass.

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## PAINT FINISHES & EXTERIOR CLADDING

### PERFORMANCE & LONGEVITY

Loewen's history of manufacturing testing and field testing has selected the most robust exterior protection, shielding the window and door finishes against weathering, pollution and aging in harsh environmental conditions. Pre-finished thick extruded aluminum cladding retains its shape, resists denting and lasts longer than roll-formed aluminum.



Our pre-finished aluminum cladding, SDL bars and brickmold casing perform at their best in unsympathetic surroundings. Offering the longest life-cycle and true sustainability, a multi-stage coating system includes a chrome conversion pretreatment, an intermediate primer coat, and AAMA-2605 70% fluoropolymer (PVDF polyvinylidene fluoride) resin-based top coat is applied to all aluminum casing. This ensures a beautiful finish that will last for decades when cared for properly.

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The paint coating meets the American Architectural Manufacturers Association 2605 specification of a 30-microns or 1.2 mil total film thickness. When the formula of the paint coating dictates, a clear coat is applied over the paint top-coat. This protective layer shields the flake in metallic coatings and increases protection against ultra violet (UV) degradation of highly chromatic and exotic colors.

- Withstands serious impact without sustaining damage.
- Cladding is set away from the underlying wood, creating an air space that improves thermal performance.
- Provides the malleability necessary to clad the many sizes and shapes we offer.
- Colorfast, corrosion resistant, resists fading and resists chalking.



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

Visit [loewen.com/warranty](http://loewen.com/warranty) for complete details.



## 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 drapes or blinds fit tight against a window or when access space is limited.



Hannover Casement and Awning Handle and Cover  
(Oil Rubbed Bronze)



Provence Casement and Awning Handle and Cover  
(Oil Rubbed Bronze)



Double/Single Hung Sash Lift  
(Oil Rubbed Bronze)



Double/Single Hung Sash Lock  
(Antique Brass)



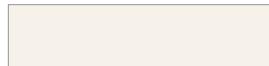
Push Out Casement/Awning Locking Handle  
(Antique Brass)



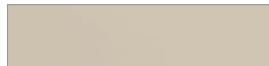
Push Out Casement/Awning Screen Knob  
(Brushed Chrome)

Loewen offers a selection of beautiful window hardware finishes, depending on the hardware item.

#### STANDARD WINDOW HARDWARE FINISHES



Linen



Sandstone

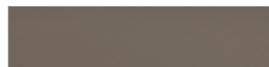


Bronze



Black

#### OPTIONAL WINDOW HARDWARE FINISHES



Oil Rubbed



Antique Brass



Bright Brass



Brushed Chrome

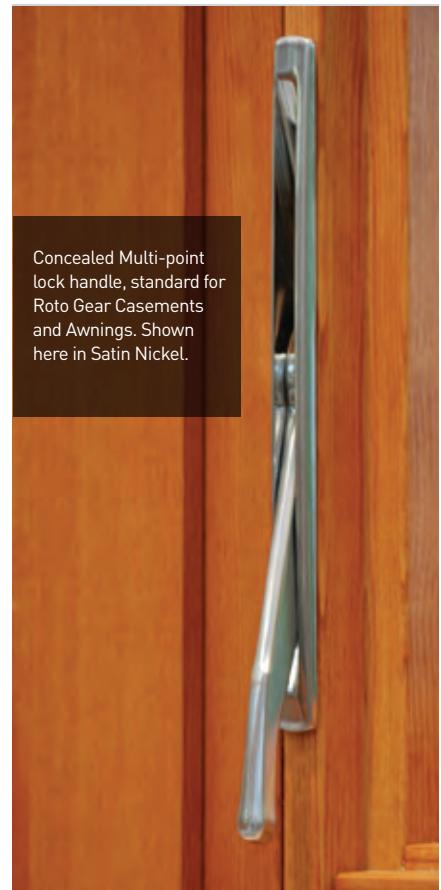


Satin Nickel



Rustic Bronze

Note: Colors may not be exactly as shown.



**S13**

LEGEND: ● Standard ○ Optional

#### WINDOW HARDWARE FINISH OPTIONS

	Casement	Push Out Casement	Awning	Push Out Awning	Double Hung
Linen	●	●	●	●	●
Sandstone	●	●	●	●	●
Bronze	●	●	●	●	●
Black	●	●	●	●	●
Oil Rubbed Bronze	○	○	○	○	○
Antique Brass	○	○	○	○	○
Bright Brass	○	○	○	○	○
Brushed Chrome	○	○	○	○	○
Satin Nickel	○	○	○	○	○
Rustic 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 AND BIFOLD HANDLE SETS



S14  
Meran Handle  
(Black)



Verona Handle  
(Polished Brass)



Rodos Handle  
(Antique Brass)



Athinia Handle  
(Satin Nickel)



Churchill Handle  
(Rustic Bronze)



Shropshire Handle  
(Rustic Bronze)

### PATIO DOOR MULTI-POINT HANDLE SETS



Botticelli Handle  
(Oil Rubbed Bronze)



Fontana Handle  
(PVD Bronze)



Churchill Handle  
(Rustic Bronze)



Volo Handle  
(PVD Satin Nickel)



Mercury Handle  
(PVD Satin Nickel)

### LIFTSIDE DOOR HANDLE SETS



Interior Flush Handle  
(Silicone Bronze Dark)



Marcos Handle  
(Satin Nickel)

Resista finishes are available on the Verona, Meran and Rodos handle. This is an extremely durable finish that is suitable for harsh environments such as coastal locations. Resista finishes include: Polished Brass Resista, Satin Nickel Resista, and Brushed Chrome Resista.

Note: Rustic Bronze is available for Churchill and Shropshire handles only.

## DOOR HARDWARE FINISHES



LEGEND: ● Standard ○ Optional

### TERRACE DOOR HARDWARE FINISH OPTIONS

	Verona & Meran Handle Sets	Shropshire & Churchill Handle Sets	Athinia Handle Set	Rodos Handle Set
Antique Brass (Resista)	●			○
Polished Brass (Resista)	●		○	○
Black	○			○
Brushed Chrome (Resista)	○			○
Oil Rubbed Bronze	○			○
Satin Nickel (Resista)	○		○	○
Rustic Bronze		●		
Polished Chrome/Satin Chrome Split			○	
Polished Brass/Satin Brass Resista Split			○	

### PATIO DOOR HARDWARE FINISH OPTIONS

	Botticelli & Fontana Handle Sets	Churchill Handle Set	Mercury Handle Set	Volo Handle Set
Antique Brass	●			
Satin Nickel (PVD)	●		●	●
Oil Rubbed Bronze	●			●
Black	●			●
Bronze (PVD)	●			●
Rustic Bronze		○		

### LIFTSIDE DOOR HARDWARE FINISH OPTIONS

	Marcos Removable Handle Set	Finger Pull	Flush Handle Set	Flush Handle Set Finger Pull
Oil Rubbed Bronze	●	●		
Bright Brass	●	●		
Satin Nickel	●	●		
White Bronze Brushed			○	○
Bronze Dark Lustre			○	○
Silicone Bronze Dark			○	○

## SIMULATED DIVIDED LITES & GRILLES

**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.

### EXTERIOR BAR OPTIONS

S16

OGEE

PUTTY

CROSS  
SECTION\*

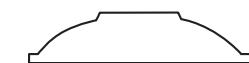
5/8"  
[16]

3/4"  
[19]

7/8"  
[22]

1 1/8"  
[30]

2"  
[51]



See Cyprium section for Cyprium profiles

\* Cross sections shown in 7/8" [22 mm] profile size.

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.

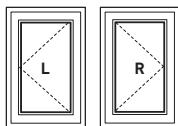
### INTERIOR BAR OPTIONS

	OGEE	PUTTY	SQUARE	DOUBLE HUNG OGEE
CROSS SECTION*				
5/8" [16]				
3/4" [19]				
7/8" [22]				
1 1/8" [30]				
2" [51]				

S17

See Cyprium section for Cyprium profiles

\* Cross sections shown in 7/8" [22 mm] profile size.



## STORMFORCE CASEMENT WINDOW SIZES

ROUGH OPENING			WIDTH							
FRAME		VISIBLE GLASS	16 1/2" 419	20 7/16" 519	24 3/8" 619	28 5/16" 719	30 1/4" 769	32 1/4" 819	36 3/16" 919	
24 3/8" 619	23 5/8" 600	17 3/8" 442	CA1 0406	CA1 0506	CA1 0606	CA1 0706	CA1 7506			
28 5/16" 719	27 9/16" 700	21 5/16" 542	CA1 0407	CA1 0507	CA1 0607	CA1 0707	CA1 7507	CA1 0807		
30 1/4" 769	29 1/2" 750	23 5/16" 592	CA1 0475	CA1 0575	CA1 0675	CA1 0775	CA1 7575	CA1 0875		
32 1/4" 819	31 1/2" 800	25 1/4" 642	CA1 0408	CA1 0508	CA1 0608	CA1 0708	CA1 7508	CA1 0808	CA1 0908	
36 3/16" 919	35 7/16" 900	29 3/16" 742	CA1 0409	CA1 0509	CA1 0609	CA1 0709	CA1 7509	CA1 0809	CA1 0909	
40 1/8" 1019	39 3/8" 1000	33 1/8" 842	CA1 0410	CA1 0510	CA1 0610	CA1 0710	CA1 7510	CA1 0810	CA1 0910	
48" 1219	47 1/4" 1200	41" 1042	CA1 0412	CA1 0512	CA1 0612	CA1 0712	CA1 7512	CA1 0812	CA1 0912	
55 7/8" 1419	55 1/8" 1400	48 7/8" 1242	CA1 0414	CA1 0514	CA1 0614	CA1 0714	CA1 7514	CA1 0814	CA1 0914	
59 13/16" 1519	59 1/16" 1500	52 13/16" 1342	CA1 0415	CA1 0515	CA1 0615	CA1 0715	CA1 7515	CA1 0815	CA1 0915	
63 3/4" 1619	63" 1600	56 3/4" 1442	CA1 0416	CA1 0516	CA1 0616	CA1 0716	CA1 7516	CA1 0816	CA1 0916	
71 5/8" 1819	70 7/8" 1800	64 5/8" 1642	CA1 0418	CA1 0518	CA1 0618	CA1 0718	CA1 7518	CA1 0818	CA1 0918	

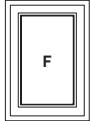
GLASS SIZE = VISIBLE GLASS + 7/8" (22 MM)

Standard Sizes Shown. Custom Sizes Available.

Note: • SDL/Grille patterns are dependent on SDL/Grille type and window size. Please verify SDL/Grille patterns before confirming your order.  
• Available with sash moulding matching Push Out mouldings.  
• Sizes are shown as Impact IG.

Canadian Egress

US & Canadian Egress



# STORMFORCE FIXED CASEMENT WINDOW SIZES



ROUGH OPENING		WIDTH								
HEIGHT	FRAME	16 1/2" 419	20 7/16" 519	24 3/8" 619	28 5/16" 719	30 1/4" 769	32 1/4" 819	36 3/16" 919	40 1/8" 1019	
		15 3/4" 400	19 11/16" 500	23 5/8" 600	27 9/16" 700	29 1/2" 750	31 1/2" 800	35 7/16" 900	39 3/8" 1000	
		Visible Glass	9 3/4" 247	13 11/16" 347	17 5/8" 447	21 9/16" 547	23 1/2" 597	25 1/2" 647	29 7/16" 747	33 3/8" 847
12 9/16" 319	11 13/16" 300	5 9/16" 142	CA1 0403	CA1 0503	CA1 0603	CA1 0703	CA1 7503	CA1 0803	CA1 0903	CA1 1003
16 1/2" 419	15 3/4" 400	9 1/2" 242	CA1 0404	CA1 0504	CA1 0604	CA1 0704	CA1 7504	CA1 0804	CA1 0904	CA1 1004
20 7/16" 519	19 11/16" 500	13 7/16" 342	CA1 0405	CA1 0505	CA1 0605	CA1 0705	CA1 7505	CA1 0805	CA1 0905	CA1 1005
24 3/8" 619	23 5/8" 600	17 3/8" 442	CA1 0406	CA1 0506	CA1 0606	CA1 0706	CA1 7506	CA1 0806	CA1 0906	CA1 1006
28 5/16" 719	27 9/16" 700	21 5/16" 542	CA1 0407	CA1 0507	CA1 0607	CA1 0707	CA1 7507	CA1 0807	CA1 0907	CA1 1007
30 1/4" 769	29 1/2" 750	23 5/16" 592	CA1 0475	CA1 0575	CA1 0675	CA1 0775	CA1 7575	CA1 0875	CA1 0975	CA1 1075
32 1/4" 819	31 1/2" 800	25 1/4" 642	CA1 0408	CA1 0508	CA1 0608	CA1 0708	CA1 7508	CA1 0808	CA1 0908	CA1 1008
36 3/16" 919	35 7/16" 900	29 3/16" 742	CA1 0409	CA1 0509	CA1 0609	CA1 0709	CA1 7509	CA1 0809	CA1 0909	CA1 1009
40 1/8" 1019	39 3/8" 1000	33 1/8" 842	CA1 0410	CA1 0510	CA1 0610	CA1 0710	CA1 7510	CA1 0810	CA1 0910	CA1 1010
48" 1219	47 1/4" 1200	41" 1042	CA1 0412	CA1 0512	CA1 0612	CA1 0712	CA1 7512	CA1 0812	CA1 0912	CA1 1012
55 7/8" 1419	55 1/8" 1400	48 7/8" 1242	CA1 0414	CA1 0514	CA1 0614	CA1 0714	CA1 7514	CA1 0814	CA1 0914	CA1 1014
59 13/16" 1519	59 1/16" 1500	52 13/16" 1342	CA1 0415	CA1 0515	CA1 0615	CA1 0715	CA1 7515	CA1 0815	CA1 0915	CA1 1015
63 3/4" 1619	63" 1600	56 3/4" 1442	CA1 0416	CA1 0516	CA1 0616	CA1 0716	CA1 7516	CA1 0816	CA1 0916	CA1 1016
71 5/8" 1819	70 7/8" 1800	64 5/8" 1642	CA1 0418	CA1 0518	CA1 0618	CA1 0718	CA1 7518	CA1 0818	CA1 0918	CA1 1018
83 7/16" 2119	82 11/16" 2100	76 7/16" 1942	CA1 0421	CA1 0521	CA1 0621	CA1 0721	CA1 7521	CA1 0821	CA1 0921	CA1 1021
95 1/4" 2419	94 1/2" 2400	88 1/4" 2242			CA1 0624	CA1 0724	CA1 7524	CA1 0824	CA1 0924	CA1 1024

PRODUCT CODE

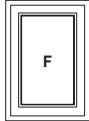
GLASS SIZE = VISIBLE GLASS + 7/8" [22 MM]

Standard Sizes Shown. Custom Sizes Available.

- Note:
- SDL/Grille patterns are dependent on SDL/Grille type and window size. Please verify SDL/Grille patterns before confirming your order.
  - Available with sash moulding matching Push Out mouldings.
  - Sizes are shown as Impact IG.

Only available with 10.1 mm lami

Only available with 13.6 mm lami



## STORMFORCE FIXED CASEMENT WINDOW SIZES (cont.)

Rough Opening		WIDTH							
		48" 1219	55 7/8" 1419	59 13/16" 1519	63 3/4" 1619	71 5/8" 1819	79 1/2" 2019	83 7/16" 2119	95 1/4" 2419
Frame		47 1/4" 1200	55 1/8" 1400	59 1/16" 1500	63" 1600	70 7/8" 1800	78 3/4" 2000	82 11/16" 2100	94 1/2" 2400
Visible Glass		41 1/4" 1047	49 1/8" 1247	53 1/16" 1347	56 15/16" 1447	64 13/16" 1647	72 11/16" 1847	76 5/8" 1947	88 7/16" 2247
S20	12 9/16" 319	11 13/16" 300	5 9/16" 142	CA1 1203	CA1 1403	CA1 1503	CA1 1603	CA1 1803	CA1 2003
	16 1/2" 419	15 3/4" 400	9 1/2" 242	CA1 1204	CA1 1404	CA1 1504	CA1 1604	CA1 1804	CA1 2004
	20 7/16" 519	19 11/16" 500	13 7/16" 342	CA1 1205	CA1 1405	CA1 1505	CA1 1605	CA1 1805	CA1 2005
	24 3/8" 619	23 5/8" 600	17 3/8" 442	CA1 1206	CA1 1406	CA1 1506	CA1 1606	CA1 1806	CA1 2006
	28 5/16" 719	27 9/16" 700	21 5/16" 542	CA1 1207	CA1 1407	CA1 1507	CA1 1607	CA1 1807	CA1 2007
	30 1/4" 769	29 1/2" 750	23 5/16" 592	CA1 1275	CA1 1475	CA1 1575	CA1 1675	CA1 1875	CA1 2075
	32 1/4" 819	31 1/2" 800	25 1/4" 642	CA1 1208	CA1 1408	CA1 1508	CA1 1608	CA1 1808	CA1 2008
	36 3/16" 919	35 7/16" 900	29 3/16" 742	CA1 1209	CA1 1409	CA1 1509	CA1 1609	CA1 1809	CA1 2009
	40 1/8" 1019	39 3/8" 1000	33 1/8" 842	CA1 1210	CA1 1410	CA1 1510	CA1 1610	CA1 1810	CA1 2010
	48" 1219	47 1/4" 1200	41" 1042	CA1 1212	CA1 1412	CA1 1512	CA1 1612	CA1 1812	CA1 2012
HEIGHT	55 7/8" 1419	55 1/8" 1400	48 7/8" 1242	CA1 1214	CA1 1414	CA1 1514	CA1 1614	CA1 1814	CA1 2014
	59 13/16" 1519	59 1/16" 1500	52 13/16" 1342	CA1 1215	CA1 1415	CA1 1515	CA1 1615	CA1 1815	CA1 2015
	63 3/4" 1619	63" 1600	56 3/4" 1442	CA1 1216	CA1 1416	CA1 1516			
	71 5/8" 1819	70 7/8" 1800	64 5/8" 1642	CA1 1218	CA1 1418	CA1 1518			
	83 7/16" 2119	82 11/16" 2100	76 7/16" 1942	CA1 1221	CA1 1421	CA1 1521			
	95 1/4" 2419	94 1/2" 2400	88 1/4" 2242	CA1 1224	CA1 1424	CA1 1524			

PRODUCT CODE

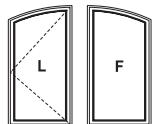
GLASS SIZE = VISIBLE GLASS + 7/8" [22 MM]

Standard Sizes Shown. Custom Sizes Available.

- Note: • SDL/Grille patterns are dependent on SDL/Grille type and window size. Please verify SDL/Grille patterns before confirming your order.  
 • Available with sash moulding matching Push Out mouldings.  
 • Sizes are shown as Impact IG.

Only available with 10.1 mm lami

Only available with 13.6 mm lami



## STORMFORCE CAMBERTOP CASEMENT WINDOW SIZES



ROUGH OPENING			WIDTH							
FRAME			16 1/2" 419	20 7/16" 519	24 3/8" 619	28 5/16" 719	30 1/4" 769	32 1/4" 819	36 3/16" 919	
VISIBLE GLASS			15 3/4" 400	19 11/16" 500	23 5/8" 600	27 9/16" 700	29 1/2" 750	31 1/2" 800	35 7/16" 900	
28 5/16" 719	27 9/16" 700	21 3/16" 538	CTC1 0407	CTC1 0507	CTC1 0607	CTC1 0707				
30 1/4" 769	29 1/2" 750	23 5/8" 588	CTC1 0475	CTC1 0575	CTC1 0675	CTC1 0775	CTC1 7575			
32 1/4" 819	31 1/2" 800	25 1/8" 638	CTC1 0408	CTC1 0508	CTC1 0608	CTC1 0708	CTC1 7508	CTC1 0808		
36 3/16" 919	35 7/16" 900	29 1/16" 738	CTC1 0409	CTC1 0509	CTC1 0609	CTC1 0709	CTC1 7509	CTC1 0809	CTC1 0909	
40 1/8" 1019	39 3/8" 1000	33" 838	CTC1 0410	CTC1 0510	CTC1 0610	CTC1 0710	CTC1 7510	CTC1 0810	CTC1 0910	
48" 1219	47 1/4" 1200	40 7/8" 1038	CTC1 0412	CTC1 0512	CTC1 0612	CTC1 0712	CTC1 7512	CTC1 0812	CTC1 0912	
55 7/8" 1419	55 1/8" 1400	48 3/4" 1238	CTC1 0414	CTC1 0514	CTC1 0614	CTC1 0714	CTC1 7514	CTC1 0814	CTC1 0914	
59 13/16" 1519	59 1/16" 1500	52 11/16" 1338	CTC1 0415	CTC1 0515	CTC1 0615	CTC1 0715	CTC1 7515	CTC1 0815	CTC1 0915	
63 3/4" 1619	63" 1600	56 5/8" 1438	CTC1 0416	CTC1 0516	CTC1 0616	CTC1 0716	CTC1 7516	CTC1 0816	CTC1 0916	
71 5/8" 1819	70 7/8" 1800	64 1/2" 1638	CA1 0418	CTC1 0518	CTC1 0618	CTC1 0718	CTC1 7518	CTC1 0818	CTC1 0918	

PRODUCT CODE

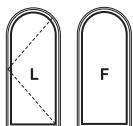
GLASS SIZE = VISIBLE GLASS + 7/8" (22 MM)

S21

www.loewen.com | 1.800.563.9367

Standard Sizes Shown. Custom Sizes Available.

- Note:
- SDL/Grille patterns are dependent on SDL/Grille type and window size. Please verify SDL/Grille patterns before confirming your order.
  - Available with sash moulding matching Push Out moldings.
  - Sizes are shown as Impact IG.



## STORMFORCE CASEMENT HALF ROUND WINDOW SIZES

		WIDTH						
Rough Opening		24 3/8" 619	28 5/16" 719	30 1/4" 769	32 1/4" 819	36 3/16" 919		
HEIGHT	Frame	23 5/8" 600	27 9/16" 700	29 1/2" 750	31 1/2" 800	35 7/16" 900		
	Visible Glass	17 5/8" 447	21 9/16" 547	23 1/2" 597	25 1/2" 647	29 7/16" 747		
S22	40 1/8" 1019	<b>39 3/8"</b> <b>1000</b>	33 1/8" 842	<b>CA1</b> <b>0610</b>	<b>CA1</b> <b>0710</b>			
	48" 1219	<b>47 1/4"</b> <b>1200</b>	41" 1042	<b>CA1</b> <b>0612</b>	<b>CA1</b> <b>0712</b>	<b>CA1</b> <b>7512</b>	<b>CA1</b> <b>0812</b>	
	55 7/8" 1419	<b>55 1/8"</b> <b>1400</b>	48 7/8" 1242	<b>CA1</b> <b>0614</b>	<b>CA1</b> <b>0714</b>	<b>CA1</b> <b>7514</b>	<b>CA1</b> <b>0814</b>	<b>CA1</b> <b>0914</b>
	59 13/16" 1519	<b>59 1/16"</b> <b>1500</b>	52 13/16" 1342	<b>CA1</b> <b>0615</b>	<b>CA1</b> <b>0715</b>	<b>CA1</b> <b>7515</b>	<b>CA1</b> <b>0815</b>	<b>CA1</b> <b>0915</b>
	63 3/4" 1619	<b>63"</b> <b>1600</b>	56 3/4" 1442	<b>CA1</b> <b>0616</b>	<b>CA1</b> <b>0716</b>	<b>CA1</b> <b>7516</b>	<b>CA1</b> <b>0816</b>	<b>CA1</b> <b>0916</b>
	71 5/8" 1819	<b>70 7/8"</b> <b>1800</b>	64 5/8" 1642	<b>CA1</b> <b>0618</b>	<b>CA1</b> <b>0718</b>	<b>CA1</b> <b>7518</b>	<b>CA1</b> <b>0818</b>	<b>CA1</b> <b>0918</b>

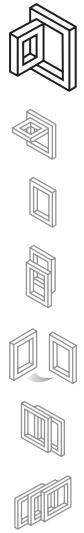
PRODUCT CODE

GLASS SIZE = VISIBLE GLASS + 7/8" (22 MM)

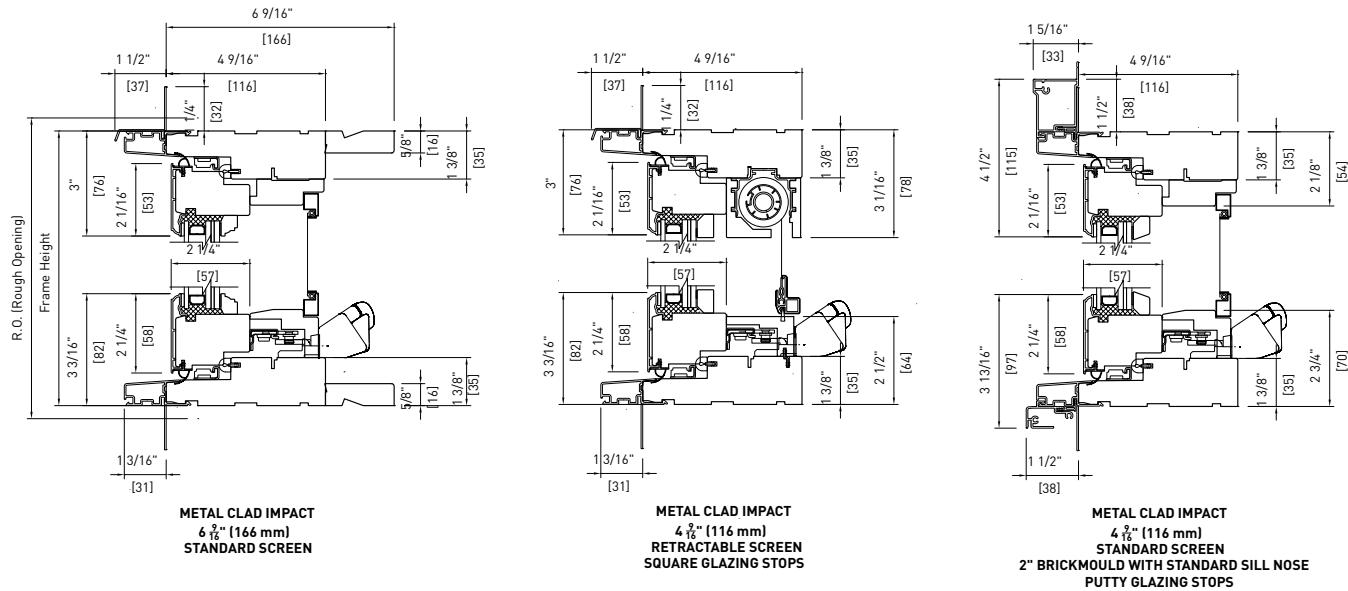
Standard Sizes Shown. Custom Sizes Available.

Note: • SDL/Grille patterns are dependent on SDL/Grille type and window size. Please verify SDL/Grille patterns before confirming your order.  
• Available with Push Out mouldings.  
• Sizes are shown as Impact IG.

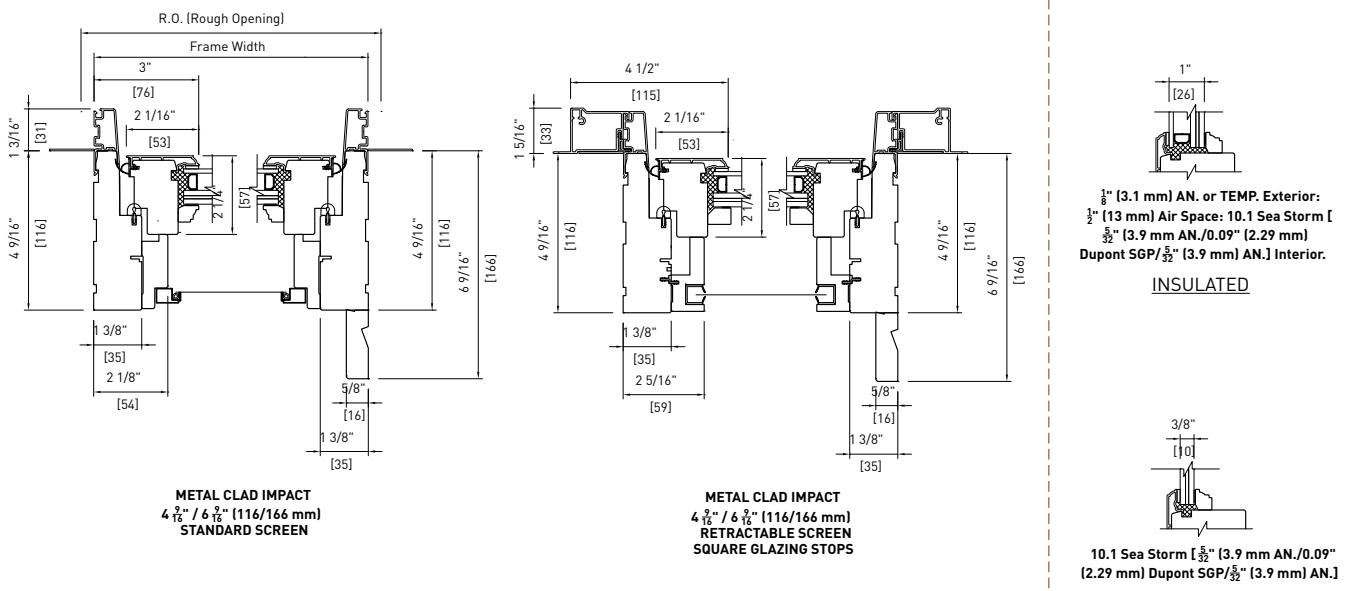
# STORMFORCE CASEMENT WINDOW DETAIL



## HEAD & SILL DETAIL



## PLAN VIEW



## GLAZING DETAIL

S23

$\frac{1}{8}$ " (3.1 mm) AN. or TEMP. Exterior:  
 $\frac{1}{2}$ " (13 mm) Air Space: 10.1 Sea Storm [  
 $\frac{3}{16}$ " (3.9 mm AN./0.09" (2.29 mm)  
**Dupont SGP/** $\frac{5}{32}$ " (3.9 mm) AN.] Interior.

**INSULATED**

$\frac{1}{8}$ " (3.1 mm) AN. or TEMP. Exterior:  
 $\frac{1}{2}$ " (13 mm) Air Space: 10.1 Sea Storm [  
 $\frac{3}{16}$ " (3.9 mm AN./0.09" (2.29 mm)  
**Dupont SGP/** $\frac{5}{32}$ " (3.9 mm) AN.] Interior.

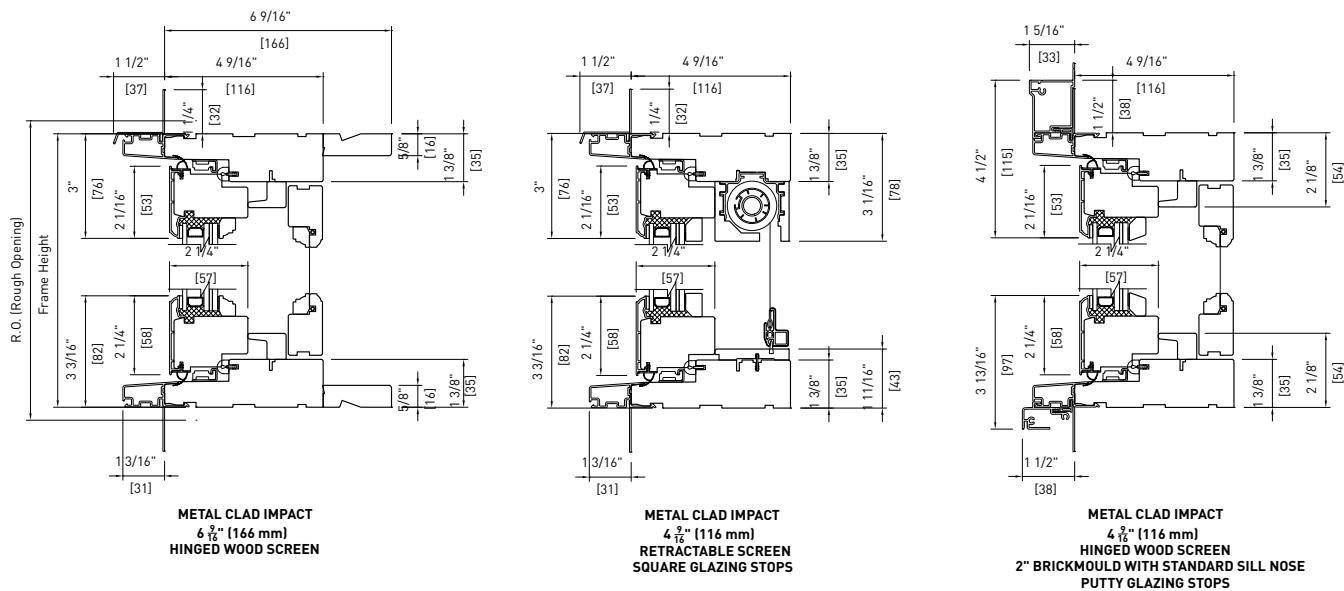
**MONOLITHIC**

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

Information is subject to change without notice. | CAD Download: [www.loewen.com/architect](http://www.loewen.com/architect) | Installation Instructions: [www.loewen.com](http://www.loewen.com)

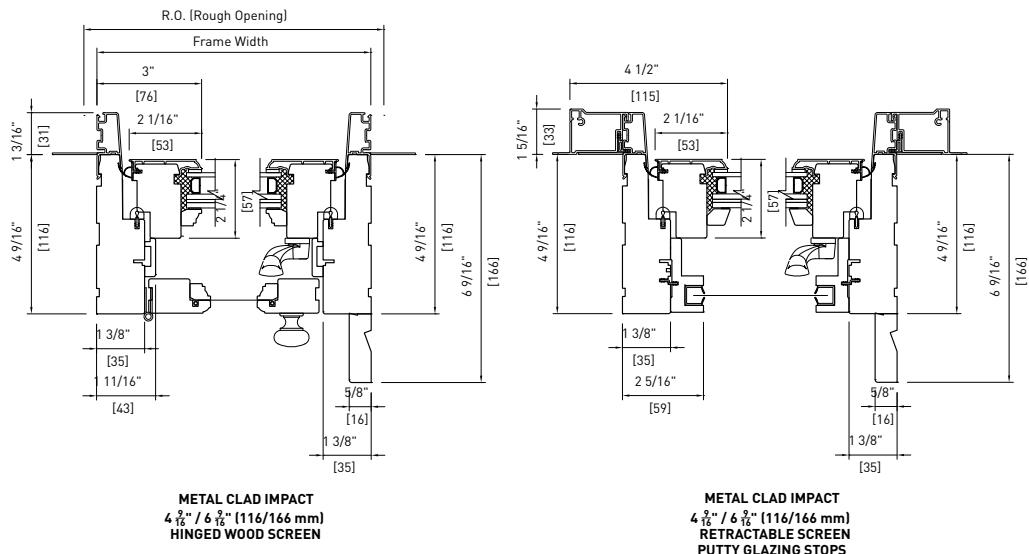
# STORMFORCE PUSHOUT CASEMENT WINDOW DETAIL

## HEAD & SILL DETAIL

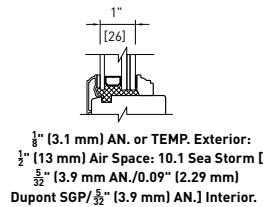


## PLAN VIEW

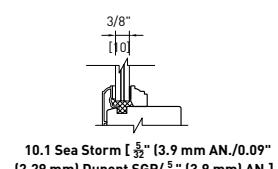
S24



## GLAZING DETAIL



INSULATED

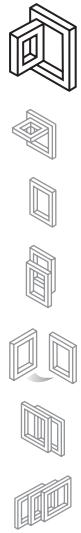


MONOLITHIC

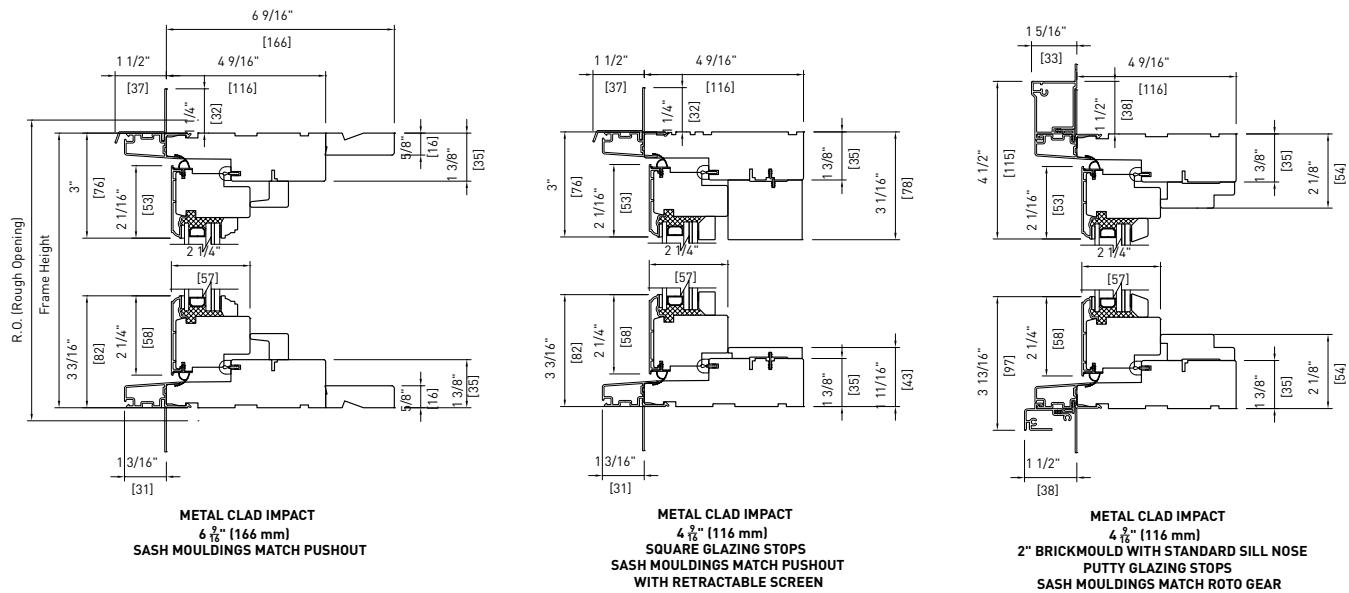
Note:

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

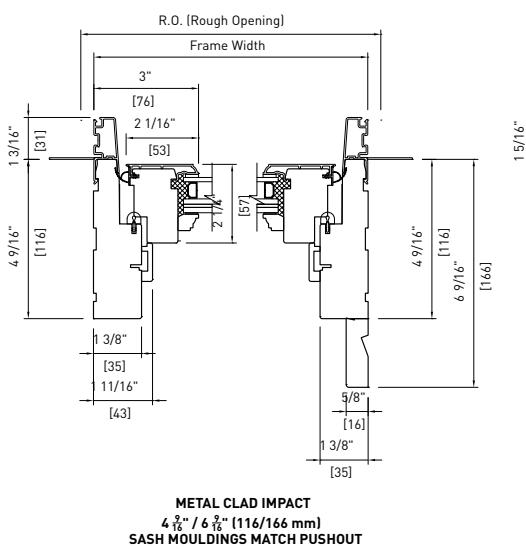
# STORMFORCE FIXED CASEMENT WINDOW DETAIL



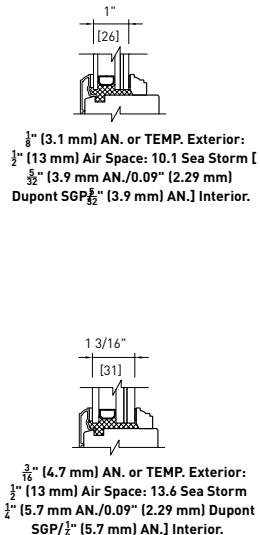
## HEAD & SILL DETAIL



## PLAN VIEW



## GLAZING DETAIL

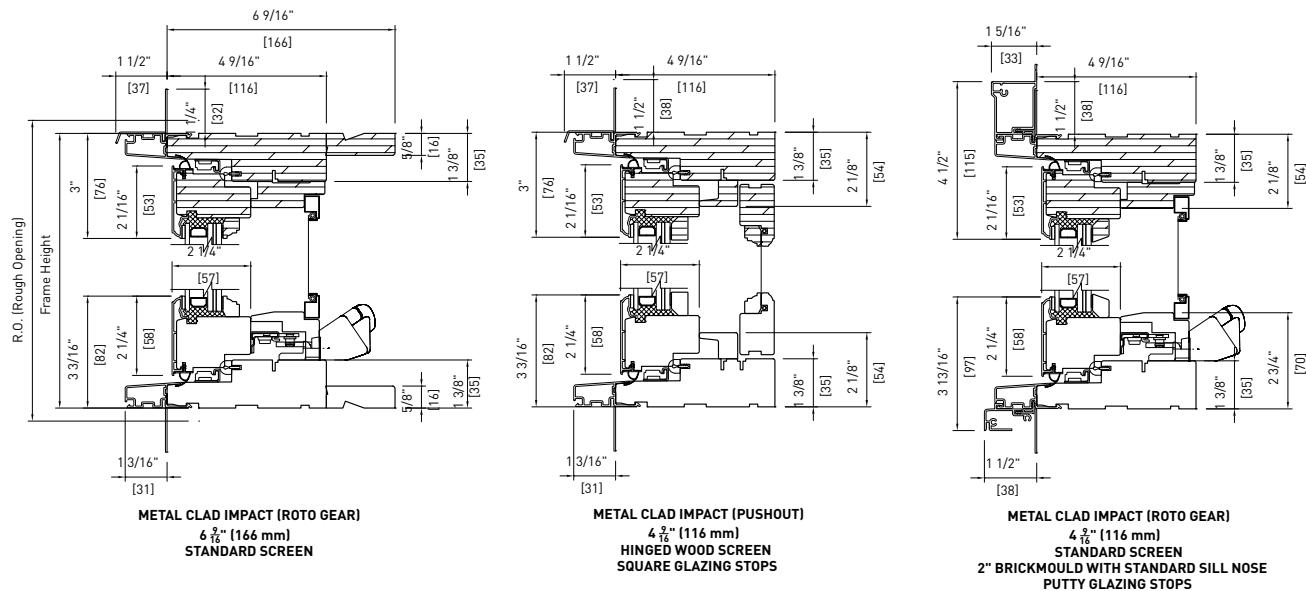


Note:

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

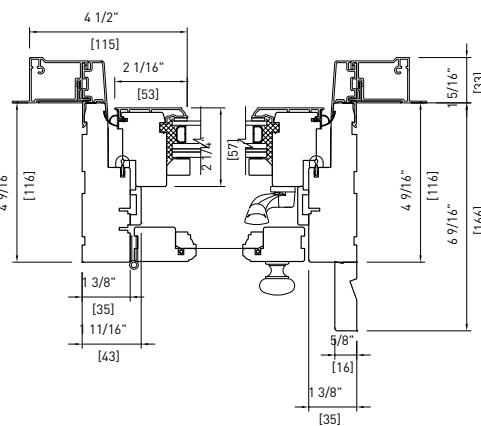
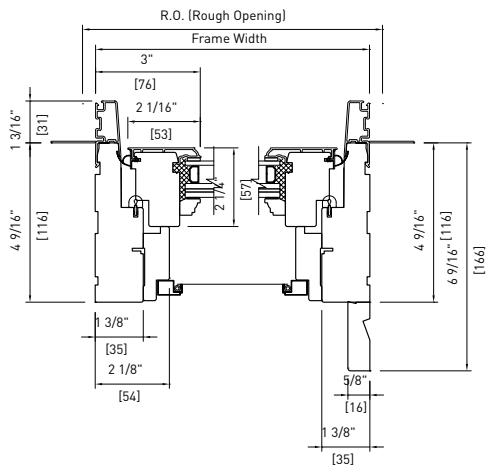
# STORMFORCE RADIUS TOP CASEMENT WINDOW DETAIL

## HEAD & SILL DETAIL

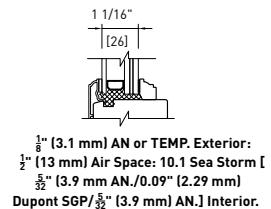


## PLAN VIEW

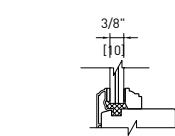
S26



## GLAZING DETAIL



### INSULATED



### MONOLITHIC



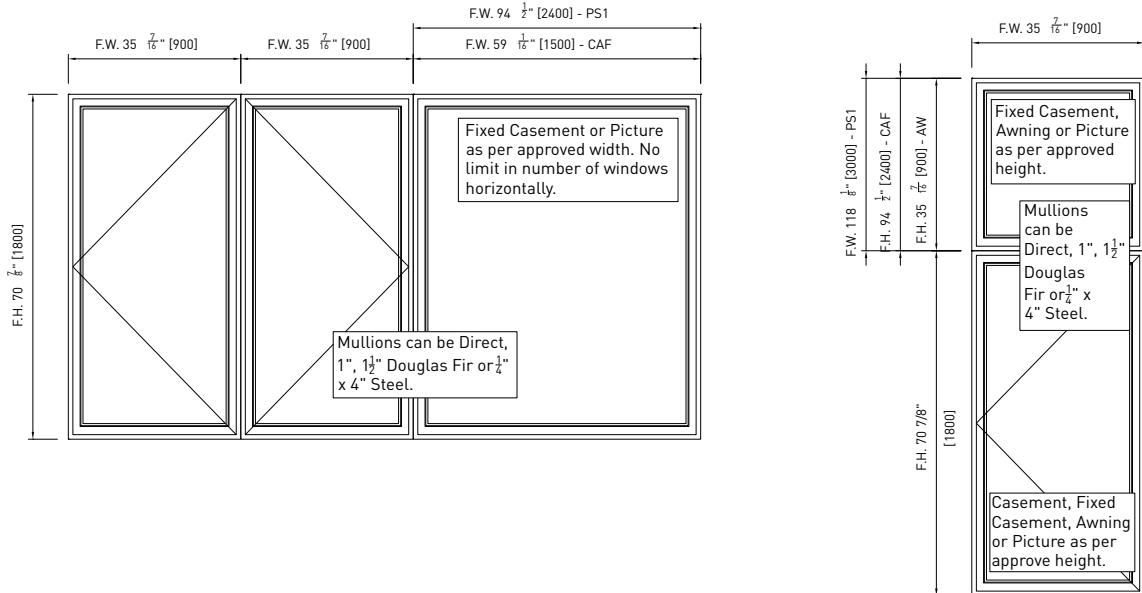
Note: • Other jamb widths available.  
• All dimensions to have +/- 1/16" (2 mm) tolerance.

# STORMFORCE CASEMENT WINDOW COMBINATIONS MULLION DETAIL

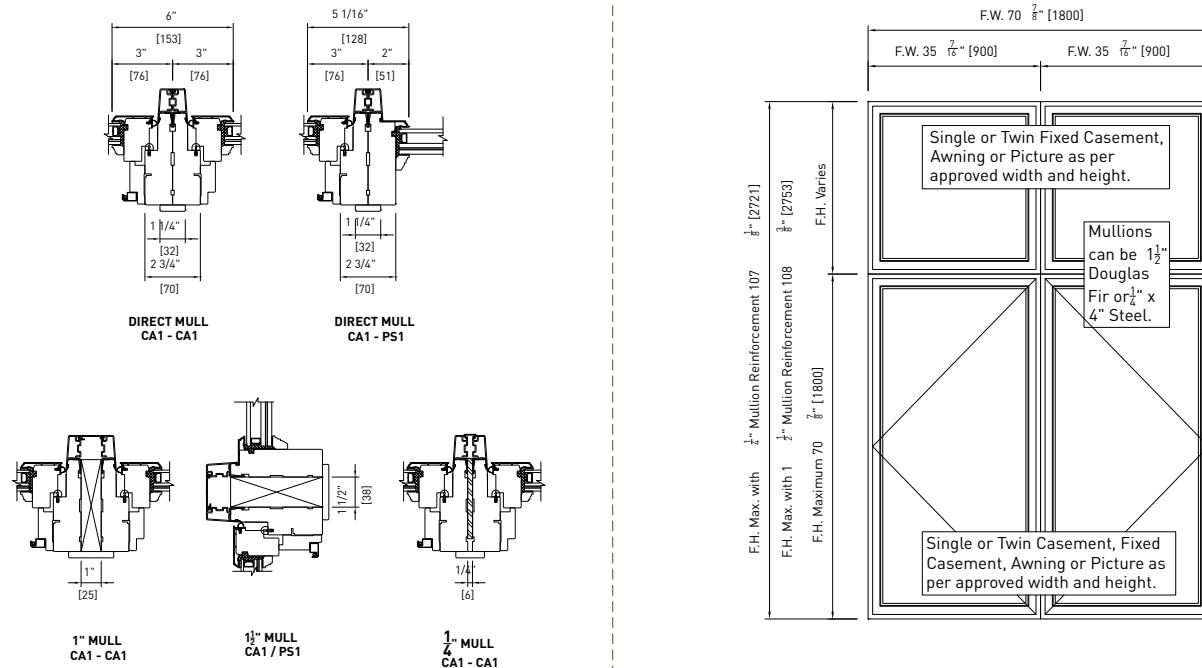


## ELEVATIONS

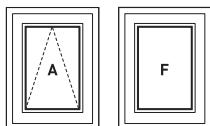
The building structure must carry the load from the windows and mulls.



## SECTION DETAIL (MULLION EXAMPLES)



S27



## STORMFORCE AWNING ZONE 4 WINDOW SIZES

		WIDTH									
Rough Opening		24 3/8" 619	28 5/16" 719	30 1/4" 769	32 1/4" 819	36 3/16" 919	40 1/8" 1019	48" 1219	55 7/8" 1419	59 13/16" 1519	
Frame		23 5/8" 600	27 9/16" 700	29 1/2" 750	31 1/2" 800	35 7/16" 900	39 3/8" 1000	47 1/4" 1200	55 1/8" 1400	59 1/16" 1500	
Visible Glass		17 5/8" 447	21 9/16" 547	23 1/2" 597	25 1/2" 647	29 7/16" 747	33 3/8" 847	41 1/4" 1047	49 1/8" 1247	53 1/16" 1347	
S28	16 1/2" 419	15 3/4" 400	9 1/2" 242	AW1 0604	AW1 0704	AW1 7504	AW1 0804	AW1 0904	AW1 1004	AW1 1204	AW1 1404
	20 7/16" 519	19 11/16" 500	13 7/16" 342	AW1 0605	AW1 0705	AW1 7505	AW1 0805	AW1 0905	AW1 1005	AW1 1205	AW1 1405
	24 3/8" 619	23 5/8" 600	17 3/8" 442	AW1 0606	AW1 0706	AW1 7506	AW1 0806	AW1 0906	AW1 1006	AW1 1206	
	28 5/16" 719	27 9/16" 700	21 5/16" 542	AW1 0607	AW1 0707	AW1 7507	AW1 0807	AW1 0907	AW1 1007	AW1 1207	AW1 1407
	30 1/4" 769	29 1/2" 750	23 5/16" 592	AW1 0675	AW1 0775	AW1 7575	AW1 0875	AW1 0975	AW1 1075	AW1 1275	AW1 1475
	32 1/4" 819	31 1/2" 800	25 1/4" 642	AW1 0608	AW1 0708	AW1 7508	AW1 0808	AW1 0908	AW1 1008	AW1 1208	AW1 1408
	36 3/16" 919	35 7/16" 900	29 3/16" 742	AW1 0609	AW1 0709	AW1 7509	AW1 0809	AW1 0909	AW1 1009	AW1 1209	AW1 1409
	40 1/8" 1019	39 3/8" 1000	33 1/8" 842	AW1 0610	AW1 0710	AW1 7510	AW1 0810	AW1 0910	AW1 1010	AW1 1210	

PRODUCT CODE

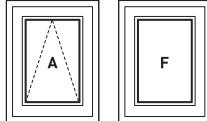
GLASS SIZE = VISIBLE GLASS + 7/8" (22 MM)

Standard Sizes Shown. Custom Sizes Available.

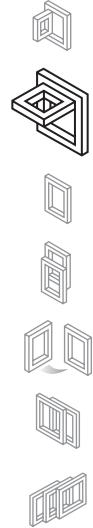
Note: • SDL/Grille patterns are dependent on SDL/Grille type and window size. Please verify SDL/Grille patterns before confirming your order.  
• Available with sash moulding matching Push Out moldings.  
• Sizes are shown as Impact IG.

Only available with Rotogear hardware

Only available with Pushout hardware



## STORMFORCE AWNING ZONE 3 WINDOW SIZES



Rough Opening		WIDTH								
	Frame	19 11/16" 500	23 5/8" 600	27 9/16" 700	29 1/2" 750	31 1/2" 800	35 7/16" 900	39 3/8" 1000	47 1/4" 1200	
HEIGHT	Visible Glass	13 11/16" 347	17 5/8" 447	21 9/16" 547	23 1/2" 597	25 1/2" 647	29 7/16" 747	33 3/8" 847	41 1/4" 1047	
16 1/2" 419	15 3/4" 400	9 1/2" 242	AW1 0504	AW1 0604	AW1 0704	AW1 7504	AW1 0804	AW1 0904	AW1 1004	AW1 1204
20 7/16" 519	19 11/16" 500	13 7/16" 342	AW1 0505	AW1 0605	AW1 0705	AW1 7505	AW1 0805	AW1 0905	AW1 1005	AW1 1205
24 3/8" 619	23 5/8" 600	17 3/8" 442	AW1 0506	AW1 0606	AW1 0706	AW1 7506	AW1 0806	AW1 0906	AW1 1006	AW1 1206
28 5/16" 719	27 9/16" 700	21 5/16" 542	AW1 0507	AW1 0607	AW1 0707	AW1 7507	AW1 0807	AW1 0907	AW1 1007	AW1 1207
30 1/4" 769	29 1/2" 750	23 5/16" 592	AW1 0575	AW1 0675	AW1 0775	AW1 7575	AW1 0875	AW1 0975	AW1 1075	AW1 1275
32 1/4" 819	31 1/2" 800	25 1/4" 642	AW1 0508	AW1 0608	AW1 0708	AW1 7508	AW1 0808	AW1 0908	AW1 1008	AW1 1208
36 3/16" 919	35 7/16" 900	29 3/16" 742	AW1 0509	AW1 0609	AW1 0709	AW1 7509	AW1 0809	AW1 0909	AW1 1009	AW1 1209
40 1/8" 1019	39 3/8" 1000	33 1/8" 842	AW1 0510	AW1 0610	AW1 0710	AW1 7510	AW1 0810	AW1 0910	AW1 1010	AW1 1210
48"1219	47 1/4" 1200	41" 1042	AW1 0512	AW1 0612	AW1 0712	AW1 7512	AW1 0812	AW1 0912	AW1 1012	AW1 1212

PRODUCT CODE

GLASS SIZE = VISIBLE GLASS + 7/8" (22 MM)

S29

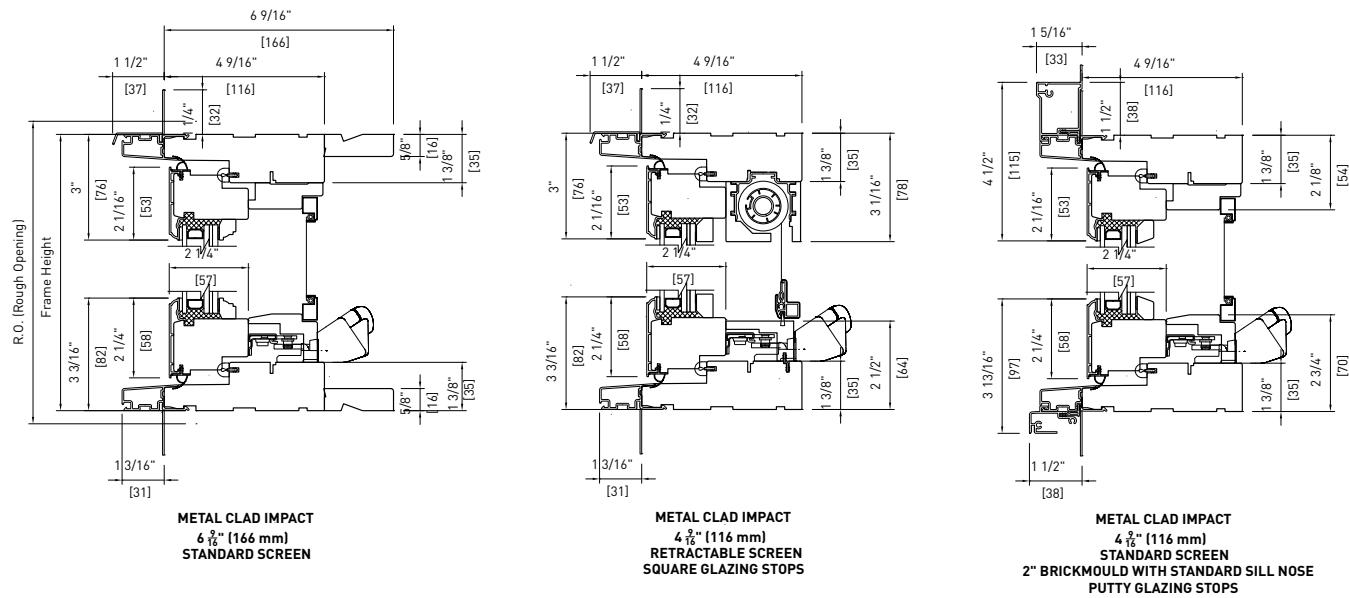
Standard Sizes Shown. Custom Sizes Available.

Note: • SDL/Grille patterns are dependent on SDL/Grille type and window size. Please verify SDL/Grille patterns before confirming your order.  
• Sizes are shown as Impact IG.

Only available with Rotogear hardware

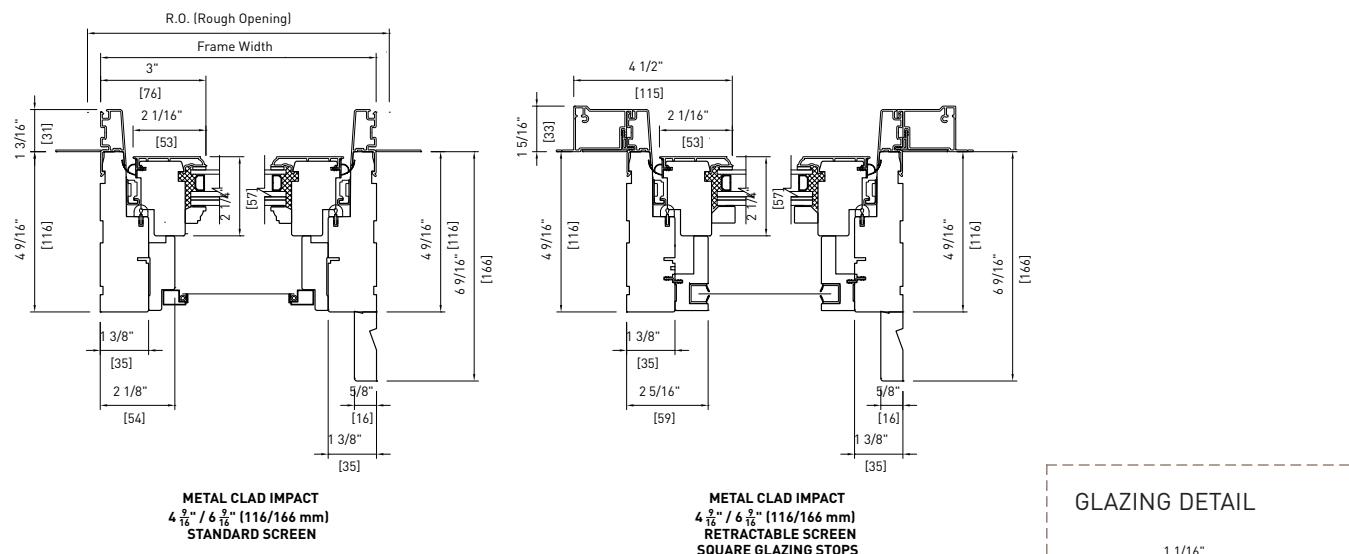
# STORMFORCE AWNING WINDOW ZONE 4 DETAIL

## HEAD & SILL DETAIL

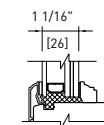


## PLAN VIEW

S30



## GLAZING DETAIL



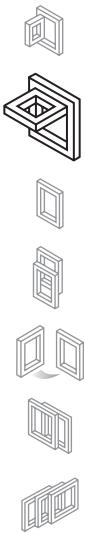
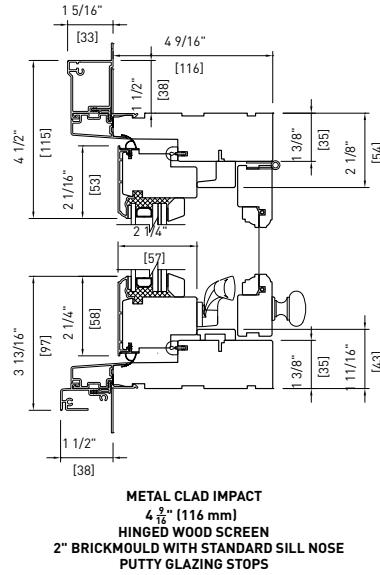
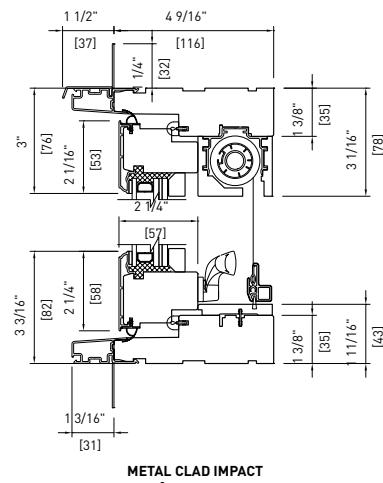
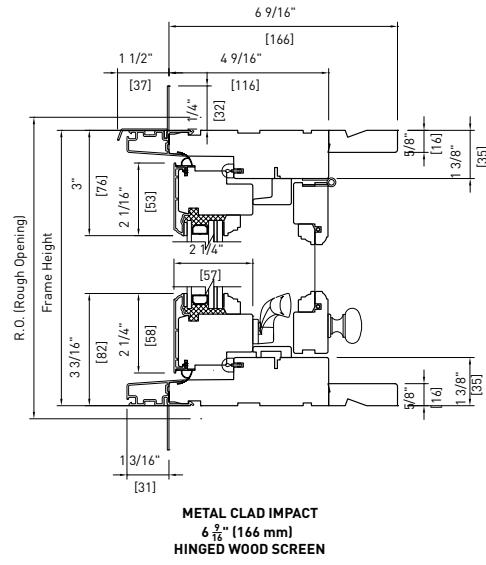
1 1/8" [26] 1" [25]  
1" [25] Air Space: 10.1 Sea Storm [  
5/32" [3.9 mm] AN./0.09" [2.29 mm]  
Dupont SGP/5/32" [3.9 mm] AN.] Interior.

Note:

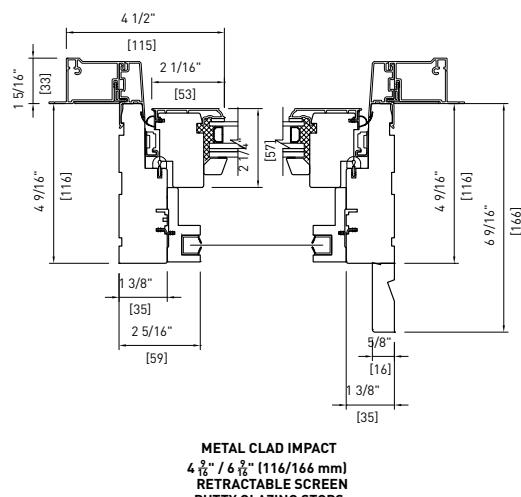
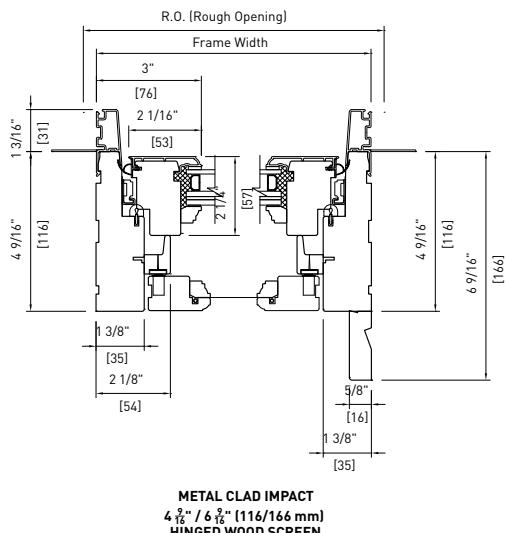
- Other jamb widths available.
- All dimensions to have +/- 1/16" [2 mm] tolerance.

# STORMFORCE PUSHOUT AWNING WINDOW ZONE 4 DETAIL

## HEAD & SILL DETAIL

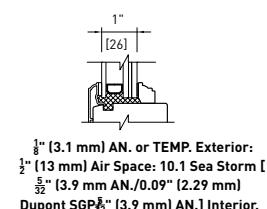


## PLAN VIEW



S31

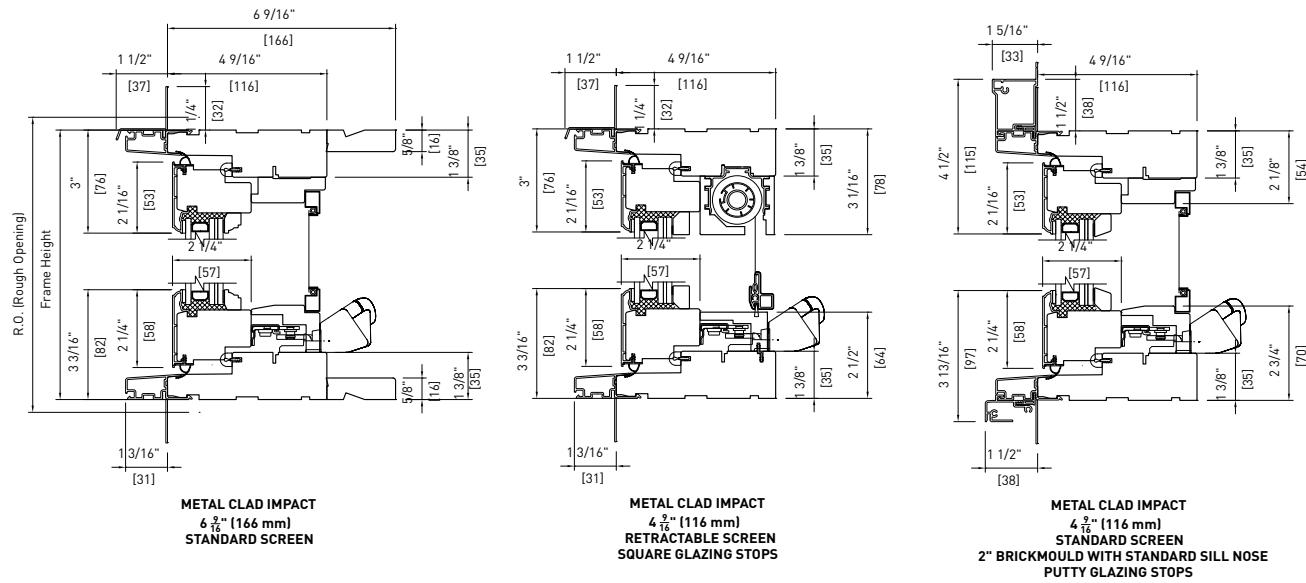
## GLAZING DETAIL



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

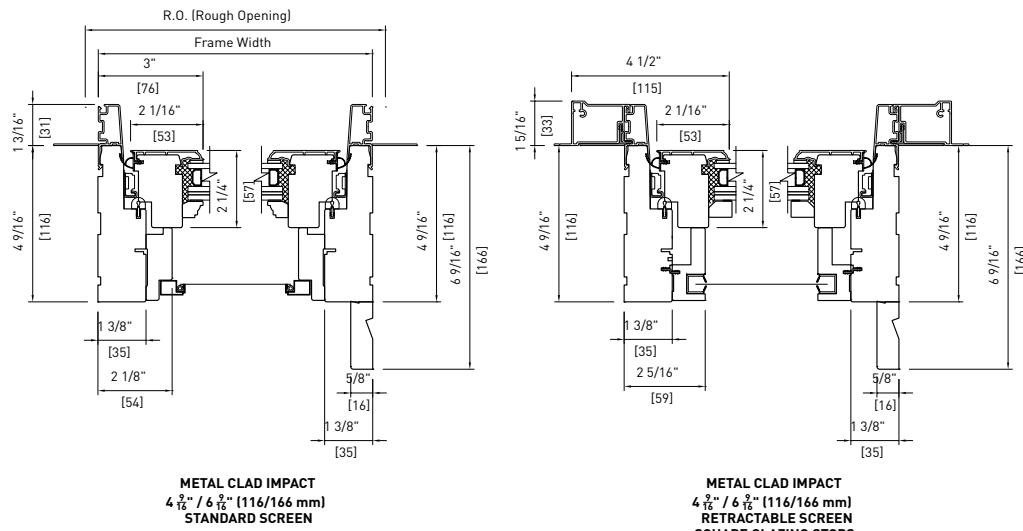
# STORMFORCE ROTO GEAR AWNING WINDOW ZONE 3 DETAIL

## HEAD & SILL DETAIL

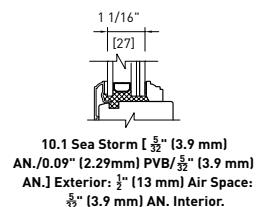


## PLAN VIEW

S32

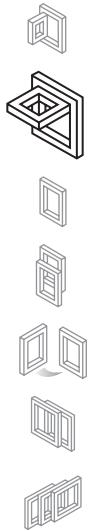


## GLAZING DETAIL

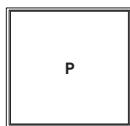


Note: • Other jamb widths available.  
• All dimensions to have +/- 1/16" (2 mm) tolerance.

## NOTES



S33



## STORMFORCE PICTURE WINDOW SIZES

Rough Opening			WIDTH					
S34	Frame	20 7/16" 519	24 3/8" 619	28 5/16" 719	30 1/4" 769	32 1/4" 819	36 3/16" 919	40 1/8" 1019
		19 11/16" 500	23 5/8" 600	27 9/16" 700	29 1/2" 750	31 1/2" 800	35 7/16" 900	39 3/8" 1000
		Visible Glass	15 9/16" 396	19 1/2" 496	23 7/16" 596	25 7/16" 646	27 3/8" 696	31 5/16" 796
	20 7/16" 519	19 11/16" 500	15 9/16" 396	PS1 0505	PS1 0605	PS1 0705	PS1 7505	PS1 0805
	24 3/8" 619	23 5/8" 600	19 1/2" 496	PS1 0506	PS1 0606	PS1 0706	PS1 7506	PS1 0806
	28 5/16" 719	27 9/16" 700	23 7/16" 596	PS1 0507	PS1 0607	PS1 0707	PS1 7507	PS1 0807
	30 1/4" 769	29 1/2" 750	25 7/16" 646	PS1 0575	PS1 0675	PS1 0775	PS1 7575	PS1 0875
	32 1/4" 819	31 1/2" 800	27 3/8" 696	PS1 0508	PS1 0608	PS1 0708	PS1 7508	PS1 0808
	36 3/16" 919	35 7/16" 900	31 5/16" 796	PS1 0509	PS1 0609	PS1 0709	PS1 7509	PS1 0809
	40 1/8" 1019	39 3/8" 1000	35 1/4" 896	PS1 0510	PS1 0610	PS1 0710	PS1 7510	PS1 0810
	48"	47 1/4" 1200	43 1/8" 1096	PS1 0512	PS1 0612	PS1 0712	PS1 7512	PS1 0812
	55 7/8" 1419	55 1/8" 1400	51" 1296	PS1 0514	PS1 0614	PS1 0714	PS1 7514	PS1 0814
	59 13/16" 1519	59 1/16" 1500	54 15/16" 1396	PS1 0515	PS1 0615	PS1 0715	PS1 7515	PS1 0815
	63 3/4" 1619	63" 1600	58 7/8" 1496	PS1 0516	PS1 0616	PS1 0716	PS1 7516	PS1 0816
	71 5/8" 1819	70 7/8" 1800	66" 1696	PS1 0518	PS1 0618	PS1 0718	PS1 7518	PS1 0818
	83 7/16" 2119	82 11/16" 2100	78 9/16" 1996	PS1 0521	PS1 0621	PS1 0721	PS1 7521	PS1 0821
	95 1/4" 2419	94 1/2" 2400	90 3/8" 2296	PS1 0524	PS1 0624	PS1 0724	PS1 7524	PS1 0824
	118 7/8" 3019	118 1/8" 3000	114" 2896		PS1 0630	PS1 0730	PS1 7530	PS1 0830

GLASS SIZE = VISIBLE GLASS + 1" (26 MM)

PRODUCT CODE

Standard Sizes Shown. Custom Sizes Available.

Note: • SDL/Grille patterns are dependent on SDL/Grille type and window size. Please verify SDL/Grille patterns before confirming your order.  
• Sizes are shown as Impact IG.

Only available with 5.7 Outboard Lite



# STORMFORCE PICTURE WINDOW SIZES



ROUGH OPENING			WIDTH								
FRAME		VISIBLE GLASS	48"	55 7/8"	59 13/16"	63 3/4"	71 5/8"	79 1/2"	83 7/16"	95 1/4"	118 7/8"
			1219	1419	1519	1619	1819	2019	2119	2419	3019
20 7/16" 519	19 11/16" 500	15 9/16" 396	PS1 1205	PS1 1405	PS1 1505	PS1 1605	PS1 1805	PS1 2005	PS1 2105	PS1 2405	
24 3/8" 619	23 5/8" 600	19 1/2" 496	PS1 1206	PS1 1406	PS1 1506	PS1 1606	PS1 1806	PS1 2006	PS1 2106	PS1 2406	PS1 3006
28 5/16" 719	27 9/16" 700	23 7/16" 596	PS1 1207	PS1 1407	PS1 1507	PS1 1607	PS1 1807	PS1 2007	PS1 2107	PS1 2407	PS1 3007
30 1/4" 769	29 1/2" 750	25 7/16" 646	PS1 1275	PS1 1475	PS1 1575	PS1 1675	PS1 1875	PS1 2075	PS1 2175	PS1 2475	PS1 3075
32 1/4" 819	31 1/2" 800	27 3/8" 696	PS1 1208	PS1 1408	PS1 1508	PS1 1608	PS1 1808	PS1 2008	PS1 2108	PS1 2408	PS1 3008
36 3/16" 919	35 7/16" 900	31 5/16" 796	PS1 1209	PS1 1409	PS1 1509	PS1 1609	PS1 1809	PS1 2009	PS1 2109	PS1 2409	PS1 3009
40 1/8" 1019	39 3/8" 1000	35 1/4" 896	PS1 1210	PS1 1410	PS1 1510	PS1 1610	PS1 1810	PS1 2010	PS1 2110	PS1 2410	PS1 3010
48" 1219	47 1/4" 1200	43 1/8" 1096	PS1 1212	PS1 1412	PS1 1512	PS1 1612	PS1 1812	PS1 2012	PS1 2112	PS1 2412	PS1 3012
55 7/8" 1419	55 1/8" 1400	51" 1296	PS1 1214	PS1 1414	PS1 1514	PS1 1614	PS1 1814	PS1 2014	PS1 2114	PS1 2414	PS1 3014
59 13/16" 1519	59 1/16" 1500	54 15/16" 1396	PS1 1215	PS1 1415	PS1 1515	PS1 1615	PS1 1815	PS1 2015	PS1 2115	PS1 2415	PS1 3015
63 3/4" 1619	63" 1600	58 7/8" 1496	PS1 1216	PS1 1416	PS1 1516	PS1 1616	PS1 1816	PS1 2016	PS1 2116	PS1 2416	
71 5/8" 1819	70 7/8" 1800	66" 1696	PS1 1218	PS1 1418	PS1 1518	PS1 1618	PS1 1818	PS1 2018	PS1 2118	PS1 2418	
83 7/16" 2119	82 11/16" 2100	78 9/16" 1996	PS1 1221	PS1 1421	PS1 1521	PS1 1621	PS1 1821	PS1 2021	PS1 2121		
95 1/4" 2419	94 1/2" 2400	90 3/8" 2296	PS1 1224	PS1 1424	PS1 1524	PS1 1624	PS1 1824				
118 7/8" 3019	118 1/8" 3000	114" 2896	PS1 1230	PS1 1430	PS1 1530						

S35

GLASS SIZE = VISIBLE GLASS + 1" (26 MM)

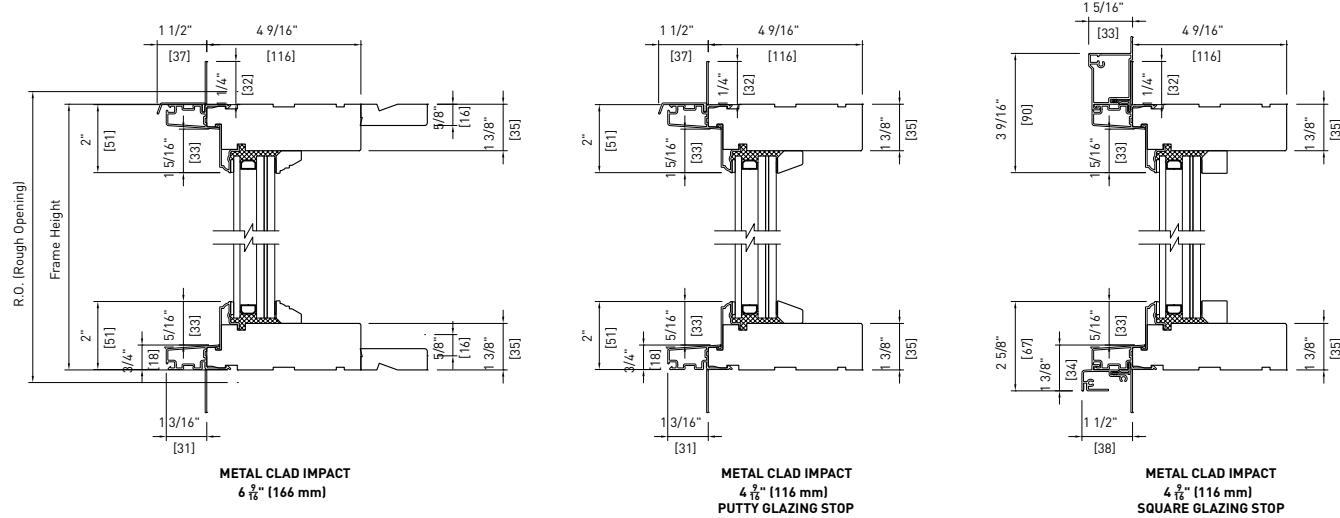
Standard Sizes Shown. Custom Sizes Available.

Note: • SDL/Grille patterns are dependent on SDL/Grille type and window size. Please verify SDL/Grille patterns before confirming your order.  
• Sizes are shown as Impact IG.

Only available with 5.7 Outboard Lite

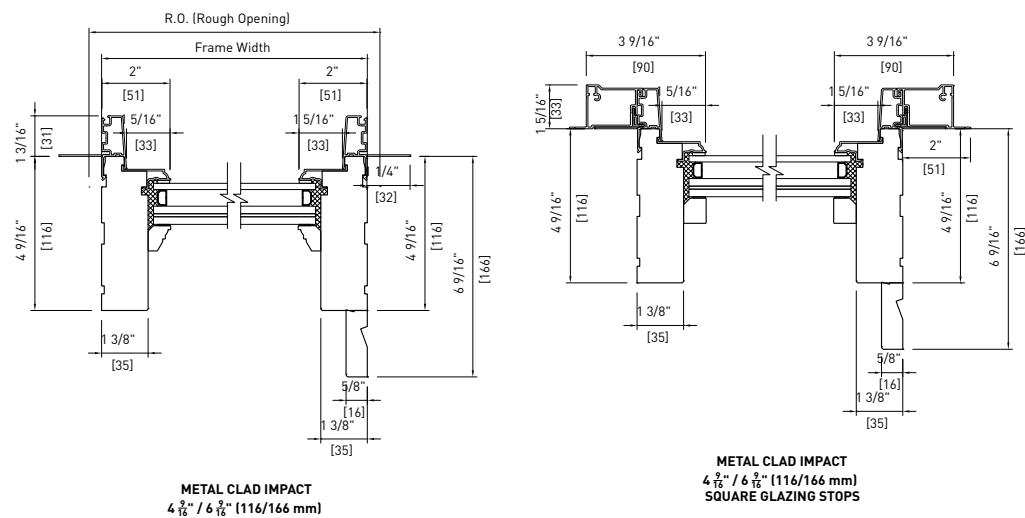
# STORMFORCE PICTURE/DIRECT SET WINDOW DETAIL

## HEAD & SILL DETAIL

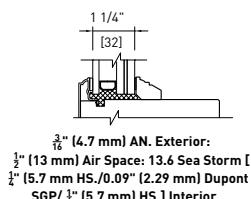


## PLAN VIEW

S36



## GLAZING DETAIL

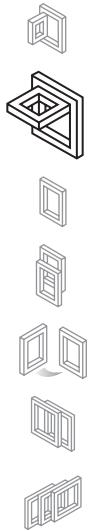


Note:

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

Information is subject to change without notice. | CAD Download: [www.loewen.com/architect](http://www.loewen.com/architect) | Installation Instructions: [www.loewen.com](http://www.loewen.com)

## NOTES



S37



## STORMFORCE DOUBLE HUNG WINDOW SIZES

Rough Opening			22 9/16" 573	26 9/16" 675	30 9/16" 777	32 9/16" 827	34 9/16" 878	36 9/16" 929	38 9/16" 980	42 9/16" 1081	46 9/16" 1183
Frame			21 13/16" 554	25 13/16" 656	29 13/16" 758	31 13/16" 808	33 13/16" 859	35 13/16" 910	37 13/16" 961	41 13/16" 1062	45 13/16" 1164
Visible Glass			15 1/16" 382	19 1/16" 484	23 1/16" 586	25 1/16" 636	27 1/16" 687	29 1/16" 738	31 1/16" 789	35 1/16" 890	39 1/16" 992
S38	33 1/16" 839	32 5/16" 820	11" 280	DH1 1612	DH1 2012	DH1 2412	DH1 2612	DH1 2812	DH1 3012		
	37" 940	36 1/4" 921	13" 330	DH1 1614	DH1 2014	DH1 2414	DH1 2614				
	41" 1042	40 1/4" 1023	15" 381	DH1 1616	DH1 2016	DH1 2416	DH1 2616	DH1 2816	DH1 3016	DH1 3216	DH1 3616
	49" 1245	48 1/4" 1226	19" 483	DH1 1620	DH1 2020	DH1 2420	DH1 2620	DH1 2820	DH1 3020	DH1 3220	DH1 3620
	53 1/16" 1347	52 5/16" 1328	21" 534	DH1 1622	DH1 2022	DH1 2422	DH1 2622	DH1 2822	DH1 3022	DH1 3222	DH1 3622
	57" 1448	56 1/4" 1429	23" 584	DH1 1624	DH1 2024	DH1 2424	DH1 2624	DH1 2824	DH1 3024	DH1 3224	DH1 3624
	61" 1550	60 1/4" 1531	25" 635	DH1 1626	DH1 2026	DH1 2426	DH1 2626	DH1 2826	DH1 3026	DH1 3226	DH1 3626
	65" 1651	64 1/4" 1632	27" 686	DH1 1628	DH1 2028	DH1 2428	DH1 2628	DH1 2828	DH1 3028	DH1 3228	DH1 3628
	69" 1753	68 1/4" 1734	29" 737	DH1 1630	DH1 2030	DH1 2430	DH1 2630	DH1 2830	DH1 3030	DH1 3230	DH1 3630
	73 1/16" 1855	72 5/16" 1836	31" 788	DH1 1632	DH1 2032	DH1 2432	DH1 2632	DH1 2832	DH1 3032	DH1 3232	DH1 3632
	77" 1956	76 1/4" 1937	33" 838	DH1 1634	DH1 2034	DH1 2434	DH1 2634	DH1 2834	DH1 3034	DH1 3234	DH1 3634
	81" 2058	80 1/4" 2039	35" 889	DH1 1636	DH1 2036	DH1 2436	DH1 2636	DH1 2836	DH1 3036	DH1 3236	DH1 3636
	85" 2159	84 1/4" 2140	37" 940	DH1 1638	DH1 2038	DH1 2438	DH1 2638	DH1 2838	DH1 3038	DH1 3238	

PRODUCT CODE

ONLY AVAILABLE IN LIBERTY (NON-TILT)  
GLASS SIZE = VISIBLE GLASS + 7/8" (22 MM)

Standard Sizes Shown. Custom Sizes Available.

- Note:
- SDL/Grille patterns are dependent on SDL/Grille type and window size. Please verify SDL/Grille patterns before confirming your order.
  - Sizes are shown as Impact IG.
  - Egress calculations are based on unit having minimum clear opening of: USA: 20" in width, 24" in height, with a total egress area of 5.7 sq ft CAN: 15" in width, 15" in height, with a total egress area of 3.8 sq ft
  - Please check your local building codes for any variation in Egress Standards from those stated above. For egress information, contact your Authorized Loewen Dealer.

Canadian Egress

US & Canadian Egress



## STORMFORCE FIXED DOUBLE HUNG WINDOW SIZES



Rough Opening			WIDTH					
Frame		Visible Glass	42 9/16" 1081	46 9/16" 1183	50 9/16" 1285	54 9/16" 1386	62 9/16" 1589	70 9/16" 1793
33 1/16" 839	32 5/16" 820	24 1/16" 611	DF 3625	DF 4025	DF 4425	DF 4825	DF 5625	DF 6425
37" 940	36 1/4" 921	28 1/16" 712	DF 3629	DF 4029	DF 4429	DF 4829	DF 5629	DF 6429
41" 1042	40 1/4" 1023	32 1/16" 814	DF 3633	DF 4033	DF 4433	DF 4833	DF 5633	DF 6433
49" 1245	48 1/4" 1226	40 1/16" 1017	DF 3641	DF 4041	DF 4441	DF 4841	DF 5641	DF 6441
53 1/16" 1347	52 5/16" 1328	44 1/16" 1119	DF 3645	DF 4045	DF 4445	DF 4845	DF 5645	DF 6445
57" 1448	56 1/4" 1429	48 1/16" 1220	DF 3649	DF 4049	DF 4449	DF 4849	DF 5649	DF 6449
61" 1550	60 1/4" 1531	52 1/16" 1322	DF 3653	DF 4053	DF 4453	DF 4853	DF 5653	DF 6453
65" 1651	64 1/4" 1632	56" 1423	DF 3657	DF 4057	DF 4457	DF 4857	DF 5657	DF 6457
69" 1753	68 1/4" 1734	60 1/16" 1525	DF 3661	DF 4061	DF 4461	DF 4861	DF 5661	DF 6461
73 1/16" 1855	72 5/16" 1836	64 1/16" 1627	DF 3665	DF 4065	DF 4465	DF 4865	DF 5665	DF 6465
77" 1956	76 1/4" 1937	68 1/16" 1728	DF 3669	DF 4069	DF 4469	DF 4869	DF 5669	DF 6469
81" 2058	80 1/4" 2039	72 1/16" 1830	DF 3673	DF 4073	DF 4473	DF 4873	DF 5673	DF 6473
85" 2159	84 1/4" 2140	76" 1931	DF 3677	DF 4077	DF 4477	DF 4877	DF 5677	DF 6477

PRODUCT CODE

ONLY AVAILABLE IN GRAND SASH  
GLASS SIZE = VISIBLE GLASS + 7/8" (22 MM)

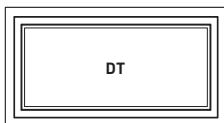
Standard Sizes Shown. Custom Sizes Available.

Note: • SDL/Grille patterns are dependent on SDL/Grille type and window size. Please verify SDL/Grille patterns before confirming your order.

• Sizes are shown as Impact IG.

• Please check your local building codes for any variation in Egress Standards from those stated above. For egress information, contact your Authorized Loewen Dealer.

S39



## STORMFORCE DOUBLE HUNG TRANSOM WINDOW SIZES

Rough Opening			22 9/16" 573	26 9/16" 675	30 9/16" 777	32 9/16" 827	34 9/16" 878	36 9/16" 929	38 9/16" 980	42 9/16" 1081	46 9/16" 1183
Frame			21 13/16" 554	25 13/16" 656	29 13/16" 758	31 13/16" 808	33 13/16" 859	35 13/16" 910	37 13/16" 961	41 13/16" 1062	45 13/16" 1164
Visible Glass			15 1/16" 382	19 1/16" 484	23 1/16" 586	25 1/16" 636	27 1/16" 687	29 1/16" 738	31 1/16" 789	35 1/16" 890	39 1/16" 992
22 9/16" 573	21 13/16" 554	15 1/16" 382	DT 1616	DT 2016	DT 2416	DT 2616	DT 2816	DT 3016	DT 3216	DT 3616	DT 4016
24 9/16" 624	23 13/16" 605	17 1/16" 433	DT 1618	DT 2018	DT 2418	DT 2618	DT 2818	DT 3018	DT 3218	DT 3618	DT 4018
26 9/16" 675	25 13/16" 656	19 1/16" 484	DT 1620	DT 2020	DT 2420	DT 2620	DT 2820	DT 3020	DT 3220	DT 3620	DT 4020

PRODUCT CODE

ONLY AVAILABLE IN GRAND SASH  
GLASS SIZE = VISIBLE GLASS + 7/8" (22 MM)

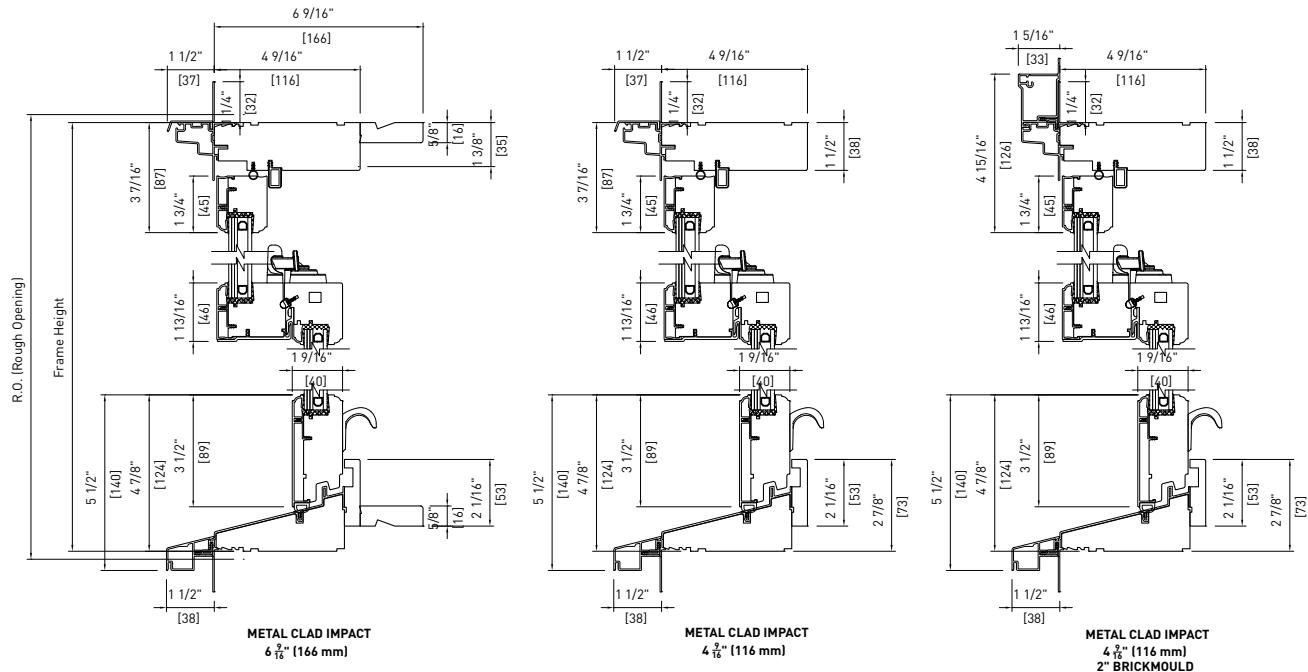
S40

### Standard Sizes Shown. Custom Sizes Available.

- Note:
- SDL/Grille patterns are dependent on SDL/Grille type and window size. Please verify SDL/Grille patterns before confirming your order.
  - Sizes are shown as Impact IG.
  - Please check your local building codes for any variation in Egress Standards from those stated above. For egress information, contact your Authorized Loewen Dealer.

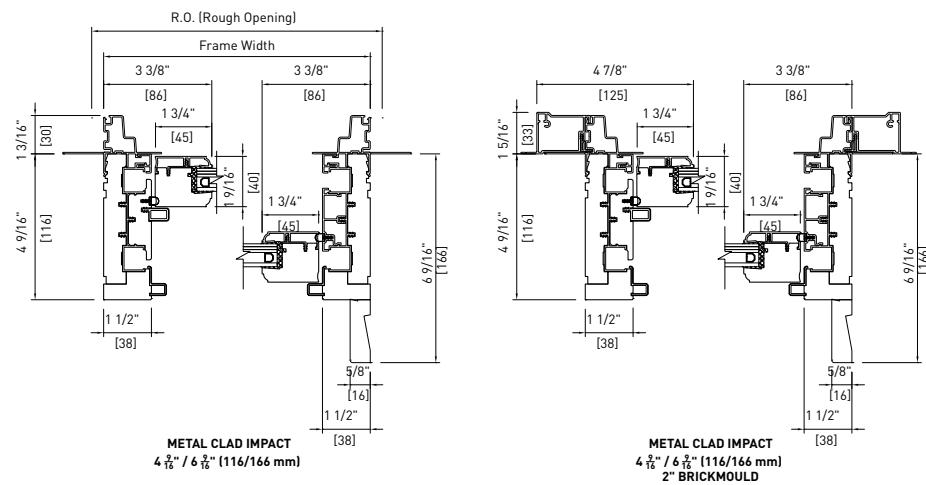
# STORMFORCE DOUBLE/SINGLE HUNG - LIBERTY (NON-TILTING) WINDOW DETAIL

## HEAD & SILL DETAIL

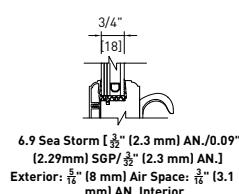


S41

## PLAN VIEW



## GLAZING DETAIL

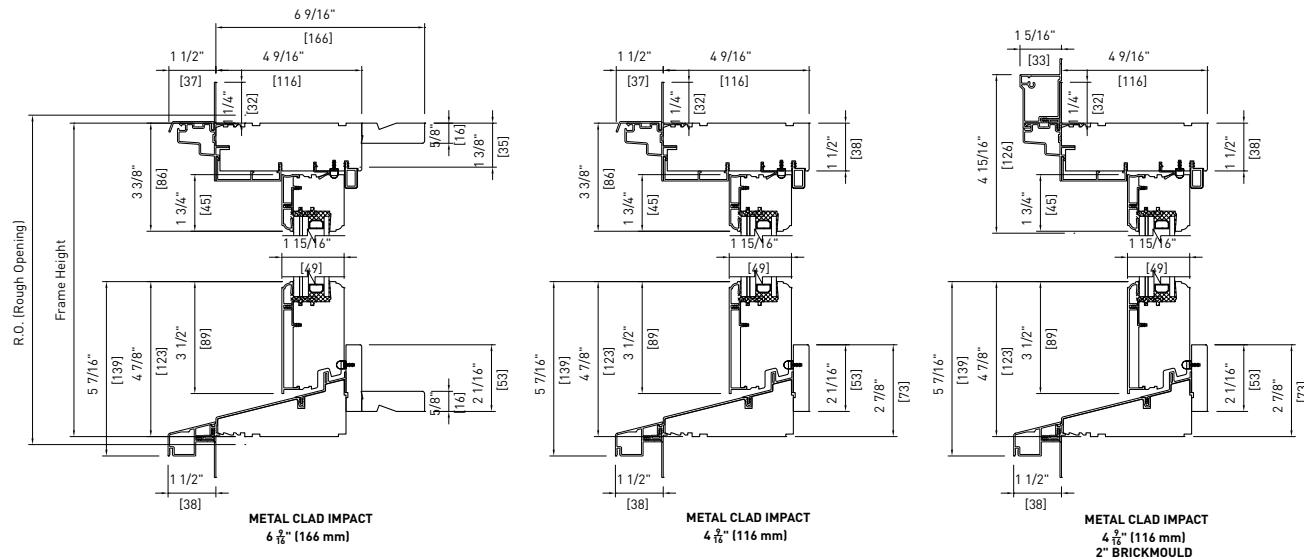


Note: • Other jamb widths available.  
• All dimensions to have +/- 1/16" (2 mm) tolerance.

Information is subject to change without notice. | CAD Download: [www.loewen.com/architect](http://www.loewen.com/architect) | Installation Instructions: [www.loewen.com](http://www.loewen.com)

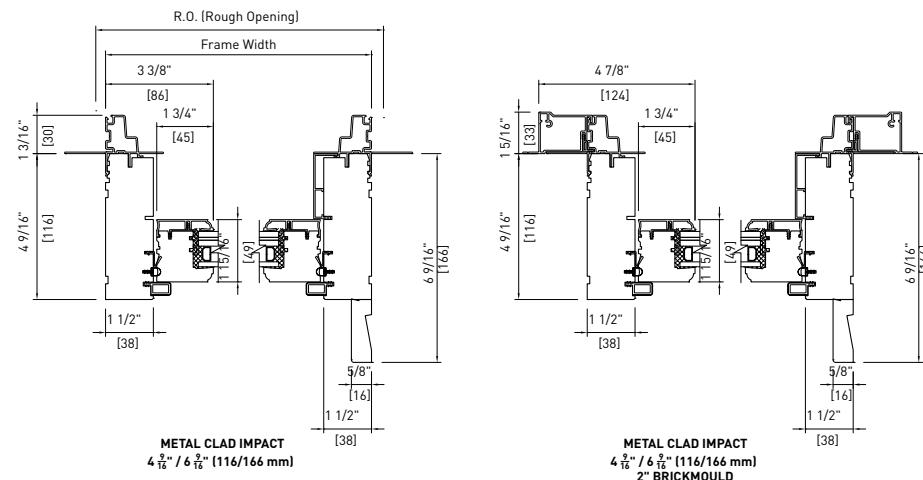
# STORMFORCE FIXED DOUBLE HUNG WINDOW DETAIL

## HEAD & SILL DETAIL

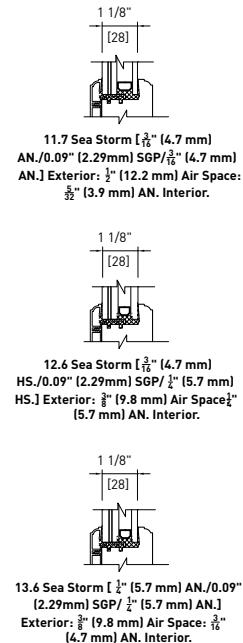


## PLAN VIEW

S42



## GLAZING DETAIL

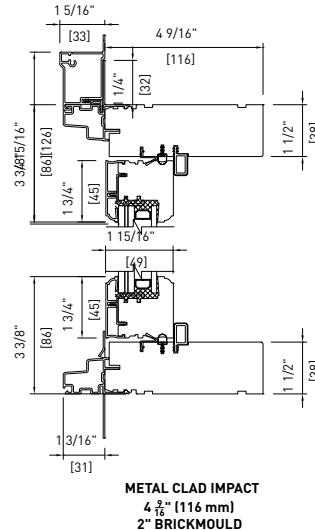
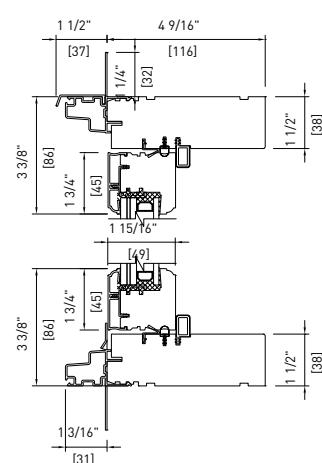
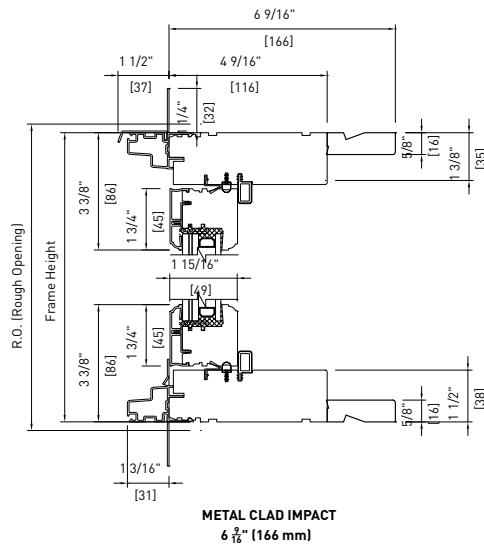


Note: • Other jamb widths available.  
• All dimensions to have +/- 1/16" (2 mm) tolerance.

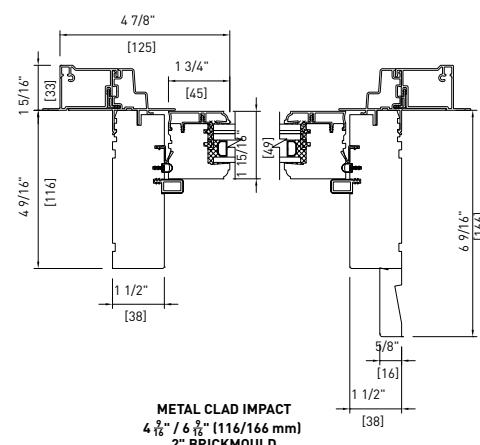
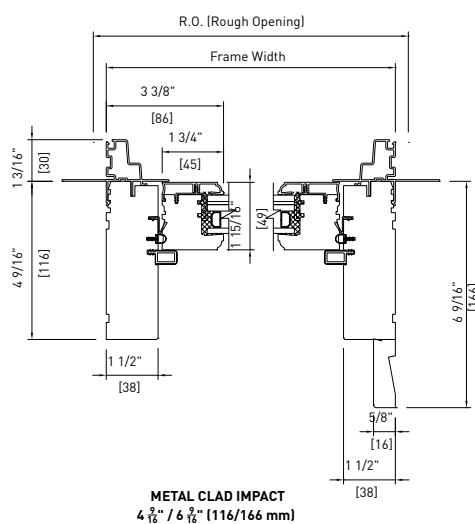
Information is subject to change without notice. | CAD Download: [www.loewen.com/architect](http://www.loewen.com/architect) | Installation Instructions: [www.loewen.com](http://www.loewen.com)

# STORMFORCE DOUBLE HUNG TRANSOM WINDOW DETAIL

## HEAD & SILL DETAIL

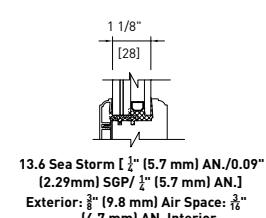
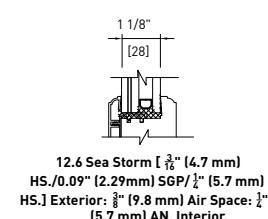
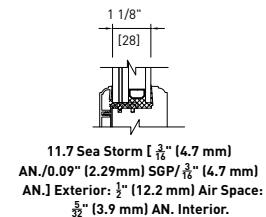


## PLAN VIEW



## GLAZING DETAIL

S43



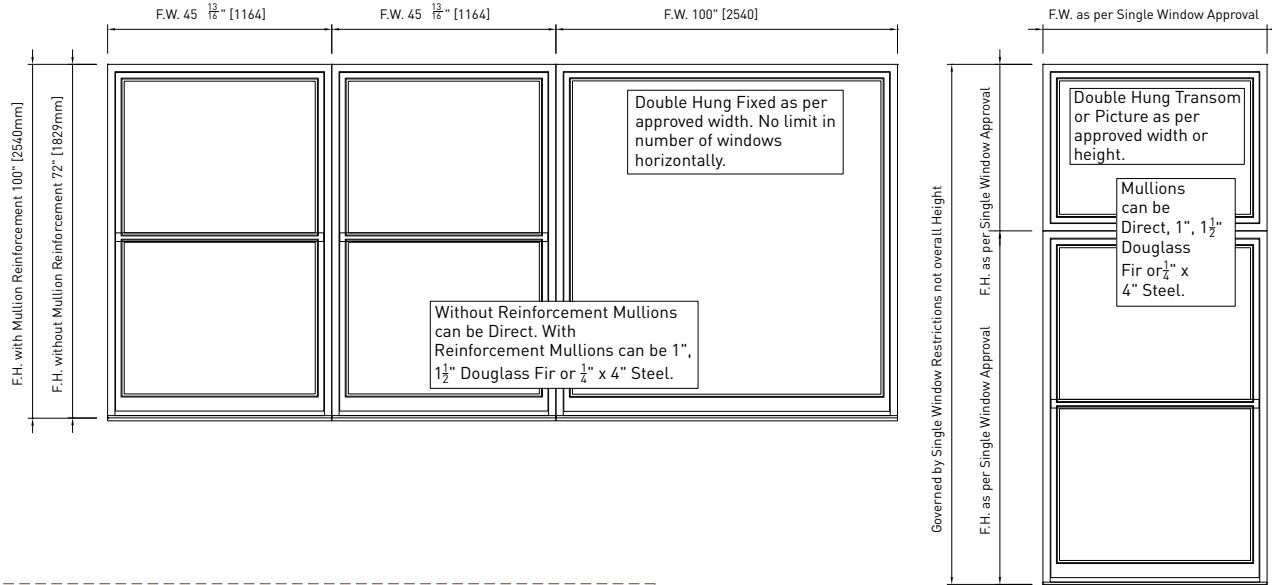
Note: • Other jamb widths available.  
• All dimensions to have +/- 1/16" (2 mm) tolerance.

Information is subject to change without notice. | CAD Download: [www.loewen.com/architect](http://www.loewen.com/architect) | Installation Instructions: [www.loewen.com](http://www.loewen.com)

# STORMFORCE DOUBLE HUNG WINDOW COMBINATIONS MULLION DETAIL

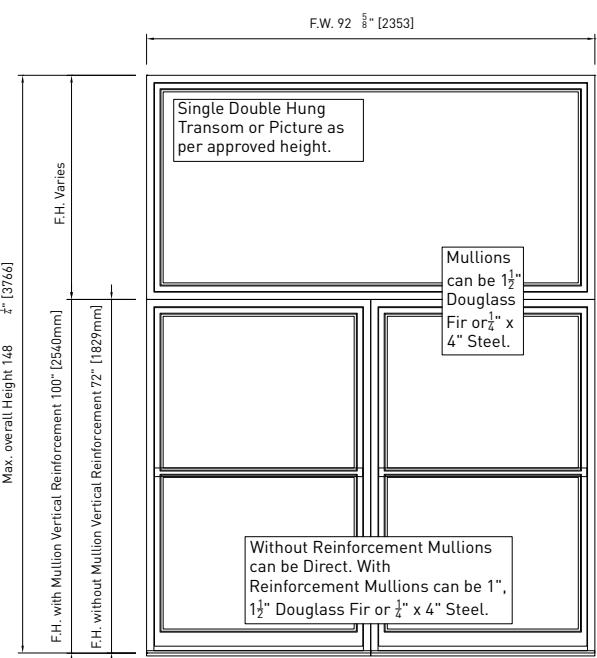
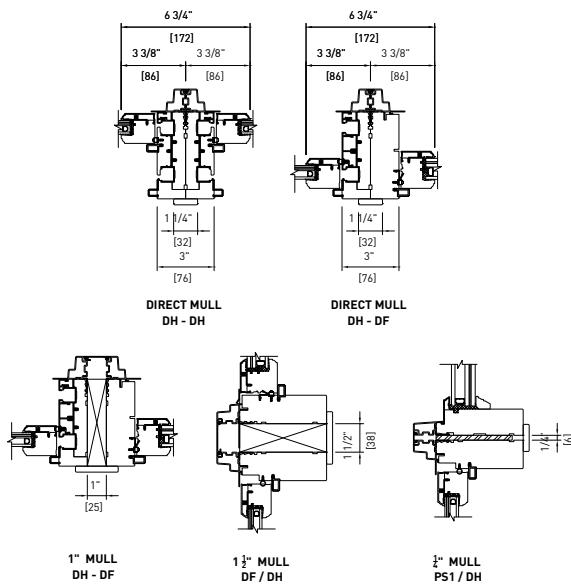
## ELEVATIONS

The building structure must carry the load from the windows and mullions.



## SECTION DETAIL (MULLION EXAMPLES)

S44



Reference FL # 14692 for complete installation instructions and sizing restriction.  
[http://www.floridabuilding.org/upload/PR\\_Instl\\_Docs/FL14692\\_R0\\_II\\_Drawing%20201740.pdf](http://www.floridabuilding.org/upload/PR_Instl_Docs/FL14692_R0_II_Drawing%20201740.pdf)

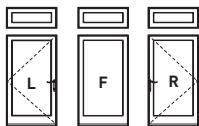
Note:

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

## NOTES



S45



## STORMFORCE OUTSWING TERRACE DOOR SIZES

ROUGH OPENING			WIDTH						
FRAME		VISIBLE GLASS	18 7/16" 469	24 3/8" 619	31 1/4" 793	34 1/2" 876	37 1/8" 943	41 1/16" 1043	44 5/8" 1134
16 5/16" 415	<b>15 3/4"</b> <b>400</b>	9 11/16" 246	TDT1 0404	TDT1 0604	TDT1 0704	TDT1 0804	TDT1 0904	TDT1 1004	TDT1 1104
24 3/16" 615	<b>23 5/8"</b> <b>600</b>	17 9/16" 446	TDT1 0406	TDT1 0606	TDT1 0706	TDT1 0806	TDT1 0906	TDT1 1006	TDT1 1106
80 1/8" 2035	<b>79 1/2"</b> <b>2020</b>	63 7/8" 1623	VTD1 0420	VTD1 0620	TD1 0720	TD1 0820	TD1 0920	TD1 1020	TD1 1120
81 7/8" 2080	<b>81 5/16"</b> <b>2065</b>	65 11/16" 1668	VTD1 0421	VTD1 0621	TD1 0721	TD1 0821	TD1 0921	TD1 1021	TD1 1121
86 9/16" 2199	<b>86"</b> <b>2184</b>	70 3/8" 1787	VTD1 0470	VTD1 0670	TD1 0770	TD1 0870	TD1 0970	TD1 1070	TD1 1170
95 1/16" 2415	<b>94 1/2"</b> <b>2400</b>	78 7/8" 2003	VTD1 0424	VTD1 0624	TD1 0724	TD1 0824	TD1 0924	TD1 1024	TD1 1124
99 5/8" 2531	<b>99 1/16"</b> <b>2516</b>	83 7/16" 2119			TD1 0725	TD1 0825	TD1 0925	TD1 1025	TD1 1125
106 7/8" 2715	<b>106 5/16"</b> <b>2700</b>	90 11/16" 2303			TD1 0727	TD1 0827	TD1 0927		

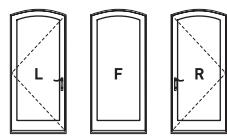
S46

GLASS SIZE = VISIBLE GLASS + 7/8" (22 MM)

Standard Sizes Shown. Custom Sizes Available.

Note: • SDL/Grille patterns are dependent on SDL/Grille type and window size. Please verify SDL/Grille patterns before confirming your order.  
• Sizes are shown as Impact IG.

Transom Units
Venting or Fixed



## STORMFORCE OUTSWING CAMBERTOP TERRACE DOOR SIZES

ROUGH OPENING			WIDTH				
FRAME		VISIBLE GLASS	31 1/4" 793	34 1/2" 876	37 1/8" 943	41 1/16" 1043	44 5/8" 1134
80 1/8" 2035	79 1/2" 2020	63 15/16" 1624	CTTD1 0720	CTTD1 0820	CTTD1 0920	CTTD1 1020	CTTD1 1120
81 7/8" 2080	81 5/16" 2065	65 11/16" 1668	CTTD1 0721	CTTD1 0821	CTTD1 0921	CTTD1 1021	CTTD1 1121
86 9/16" 2199	86" 2184	70 3/8" 1787	CTTD1 0770	CTTD1 0870	CTTD1 0970	CTTD1 1070	CTTD1 1170
95 1/16" 2415	94 1/2" 2400	78 7/8" 2003	CTTD1 0724	CTTD1 0824	CTTD1 0924	CTTD1 1024	CTTD1 1124
99 5/8" 2531	99 1/16" 2516	83 7/16" 2119	CTTD1 0725	CTTD1 0825	CTTD1 0925	CTTD1 1025	CTTD1 1125
106 7/8" 2715	106 5/16" 2700	90 11/16" 2303	CTTD1 0727	CTTD1 0827	CTTD1 0927		

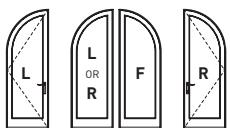
PRODUCT CODE

S47

GLASS SIZE = VISIBLE GLASS + 7/8" (22 MM)

**Standard Sizes Shown. Custom Sizes Available.**

Note: • SDL/Grille patterns are dependent on SDL/Grille type and window size. Please verify SDL/Grille patterns before confirming your order.  
• Sizes are shown as Impact IG.



## STORMFORCE OUTSWING QUARTER ROUND TERRACE DOOR SIZES

ROUGH OPENING			WIDTH		
			31 1/4" 793	34 1/2" 876	37 1/8" 943
			Frame 30 1/2" 774	Visible Glass 19 15/16" 506	Visible Glass 23 3/16" 589
80 1/8" 2035	<b>79 1/2" 2020</b>	63 3/8" 1610	<b>CTTD1 0720</b>	<b>CTTD1 0820</b>	
81 7/8" 2080	<b>81 5/16" 2065</b>	65 3/16" 1655	<b>CTTD1 0721</b>	<b>CTTD1 0821</b>	<b>CTTD1 0921</b>
86 9/16" 2199	<b>86" 2184</b>	69 7/8" 1774	<b>CTTD1 0770</b>	<b>CTTD1 0870</b>	<b>CTTD1 0970</b>
95 1/16" 2415	<b>94 1/2" 2400</b>	78 3/8" 1990	<b>CTTD1 0724</b>	<b>CTTD1 0824</b>	<b>CTTD1 0924</b>
99 5/8" 2531	<b>99 1/16" 2516</b>	82 15/16" 2106	<b>CTTD1 0725</b>	<b>CTTD1 0825</b>	<b>CTTD1 0925</b>
106 7/8" 2715	<b>106 5/16" 2700</b>	90 3/16" 2290	<b>CTTD1 0727</b>	<b>CTTD1 0827</b>	<b>CTTD1 0927</b>

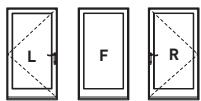
S48

PRODUCT CODE

GLASS SIZE = VISIBLE GLASS + 7/8" (22 MM)

Standard Sizes Shown. Custom Sizes Available.

Note: • SDL/Grille patterns are dependent on SDL/Grille type and window size. Please verify SDL/Grille patterns before confirming your order.  
• Sizes are shown as Impact IG.



## STORMFORCE INSWING TERRACE DOOR SIZES

			WIDTH		
Rough Opening			31 1/4" 793	34 1/2" 876	37 1/8" 943
		Frame	30 1/2" 774	33 3/4" 857	36 3/8" 924
		Visible Glass	19 15/16" 506	23 3/16" 589	25 13/16" 656
80 1/8" 2035	<b>79 1/2"</b> <b>2020</b>	63 7/8" 1623	<b>TD1</b> <b>0720</b>	<b>TD1</b> <b>0820</b>	<b>TD1</b> <b>0920</b>
81 7/8" 2080	<b>81 5/16"</b> <b>2065</b>	65 11/16" 1668	<b>TD1</b> <b>0721</b>	<b>TD1</b> <b>0821</b>	<b>TD1</b> <b>0921</b>
86 9/16" 2199	<b>86"</b> <b>2184</b>	70 3/8" 1787	<b>TD1</b> <b>0770</b>	<b>TD1</b> <b>0870</b>	<b>TD1</b> <b>0970</b>
95 1/16" 2415	<b>94 1/2"</b> <b>2400</b>	78 7/8" 2003	<b>TD1</b> <b>0724</b>	<b>TD1</b> <b>0824</b>	<b>TD1</b> <b>0924</b>

PRODUCT CODE

GLASS SIZE = VISIBLE GLASS + 7/8" (22 MM)

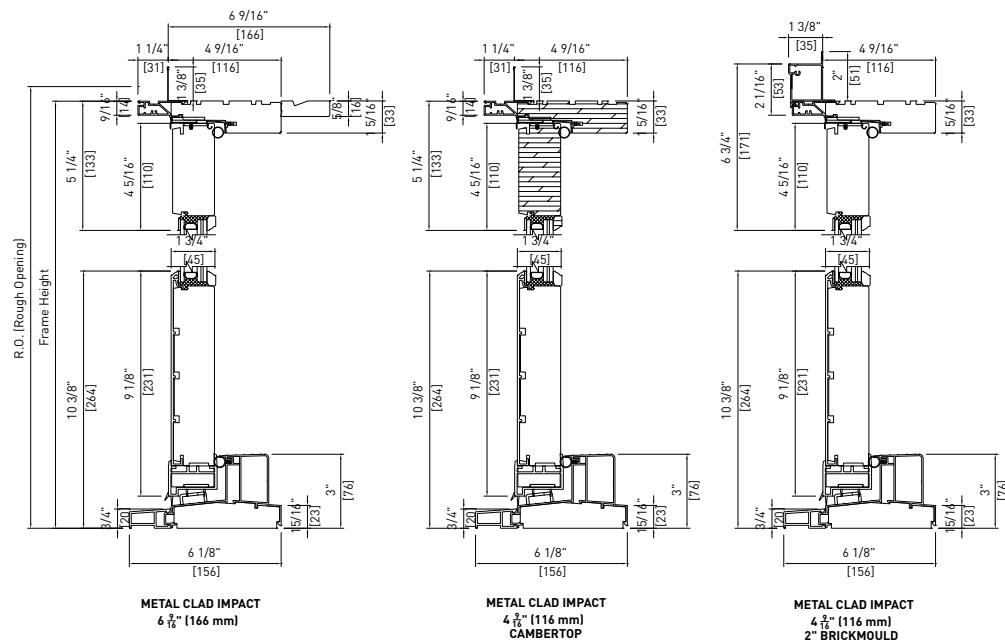
S49

**Standard Sizes Shown. Custom Sizes Available.**

Note: • SDL/Grille patterns are dependent on SDL/Grille type and window size. Please verify SDL/Grille patterns before confirming your order.  
• Sizes are shown as Impact IG.

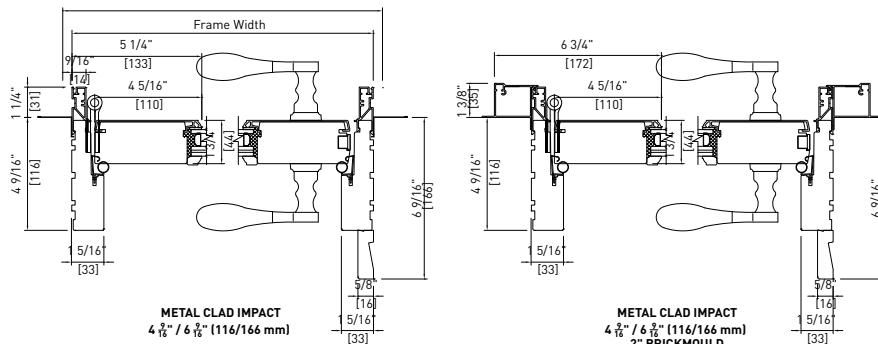
# STORMFORCE OUTSWING TERRACE DOOR DETAIL

## HEAD & SILL DETAIL

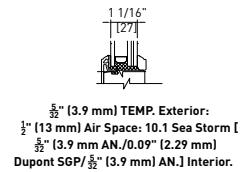


S50

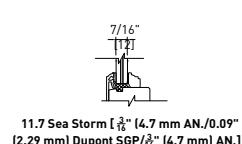
## PLAN VIEW



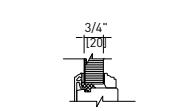
## GLAZING DETAIL



### INSULATED



### MONOLITHIC



### PLYWOOD

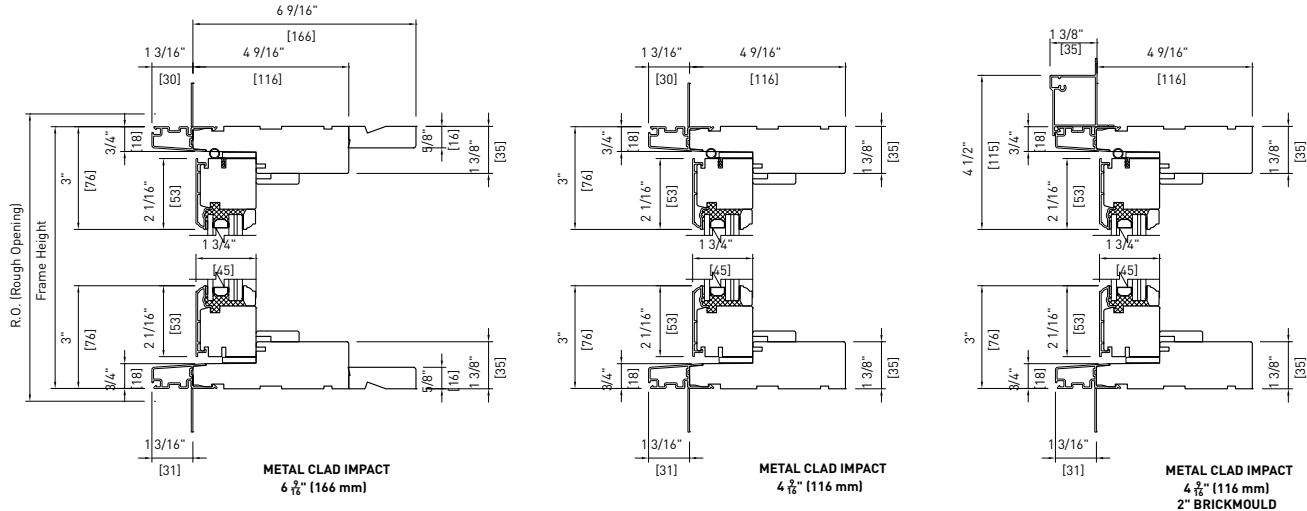


Note: • Other jamb widths available.  
• All dimensions to have +/- 1/16" (2 mm) tolerance.

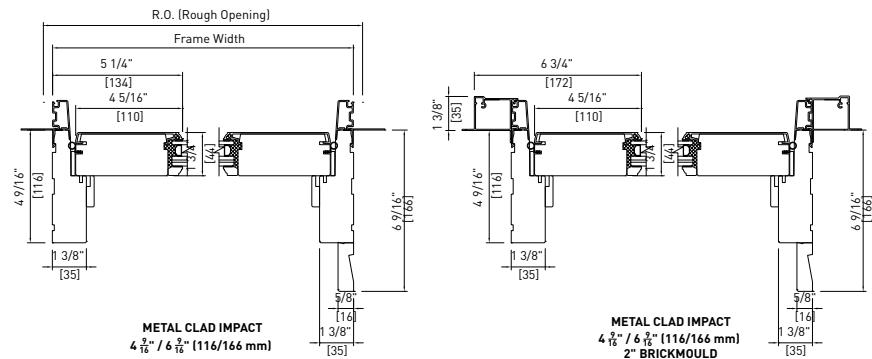
Information is subject to change without notice. | CAD Download: [www.loewen.com/architect](http://www.loewen.com/architect) | Installation Instructions: [www.loewen.com](http://www.loewen.com)

# STORMFORCE TERRACE DOOR TRANSOM DETAIL

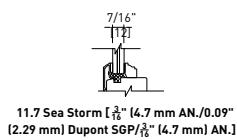
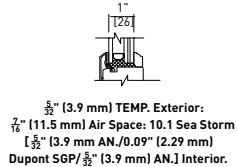
## HEAD & SILL DETAIL



## PLAN VIEW



## GLAZING DETAIL

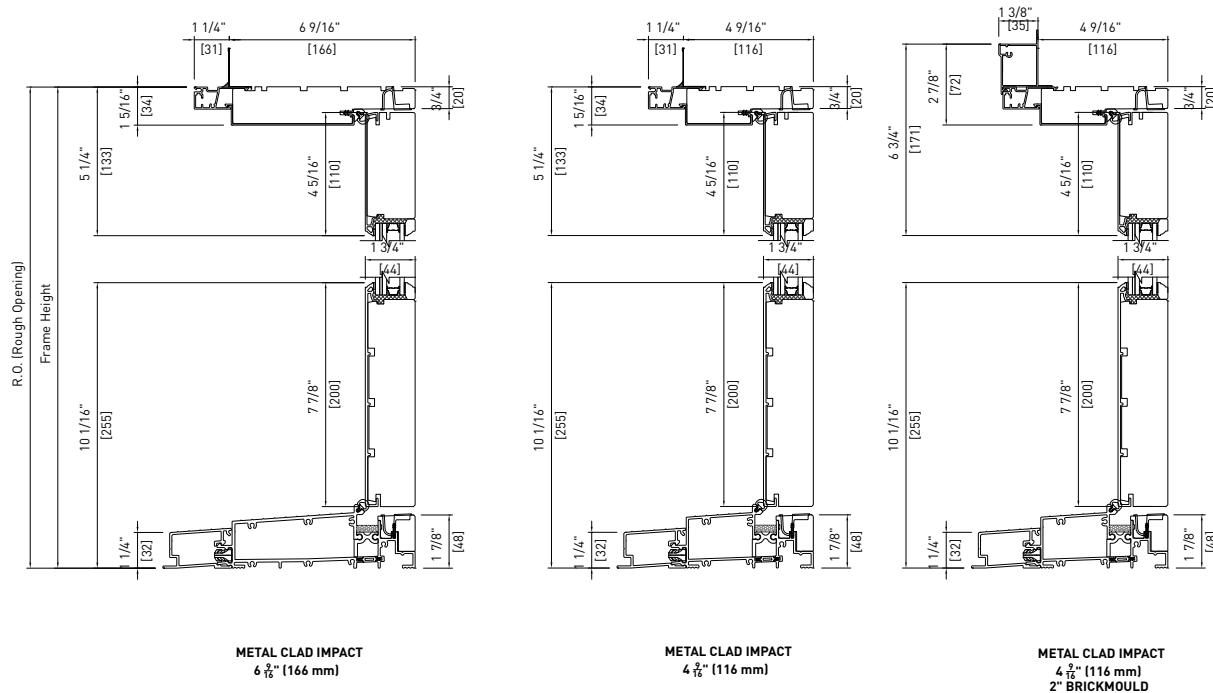


Note: • Other jamb widths available.  
• All dimensions to have +/- 1/16" (2 mm) tolerance.

Information is subject to change without notice. | CAD Download: [www.loewen.com/architect](http://www.loewen.com/architect) | Installation Instructions: [www.loewen.com](http://www.loewen.com)

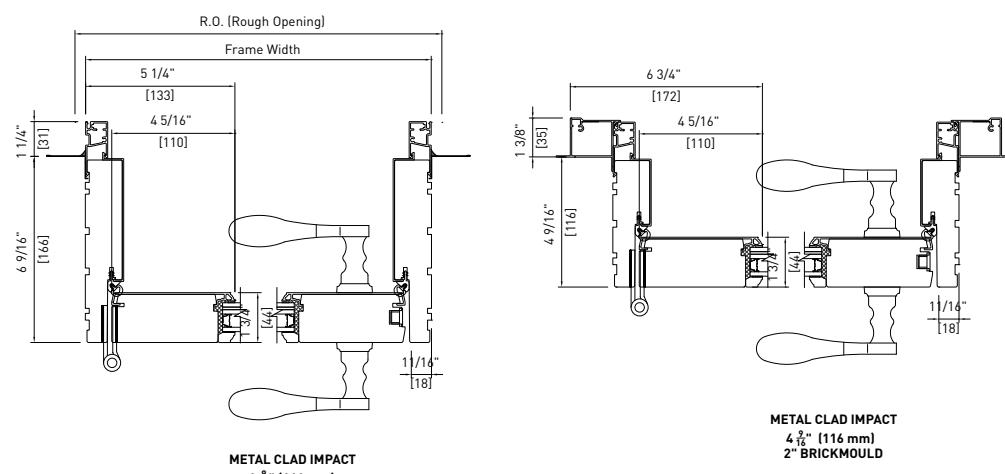
# STORMFORCE INSWING TERRACE DOOR DETAIL

## HEAD & SILL DETAIL



S52

## PLAN VIEW



METAL CLAD IMPACT  
4 5/16" (116 mm)  
2" BRICKMOULD

## GLAZING DETAIL



10.1 Sea Storm [ $\frac{5}{32}$ " (3.9 mm)  
AN./0.09" (2.29 mm) PVB /  $\frac{5}{32}$ " (3.9 mm) AN.] Exterior:  $\frac{5}{16}$ " (11.5 mm) Air Space:  $\frac{5}{32}$ " (3.9 mm) TEMP. Interior.

Note:  

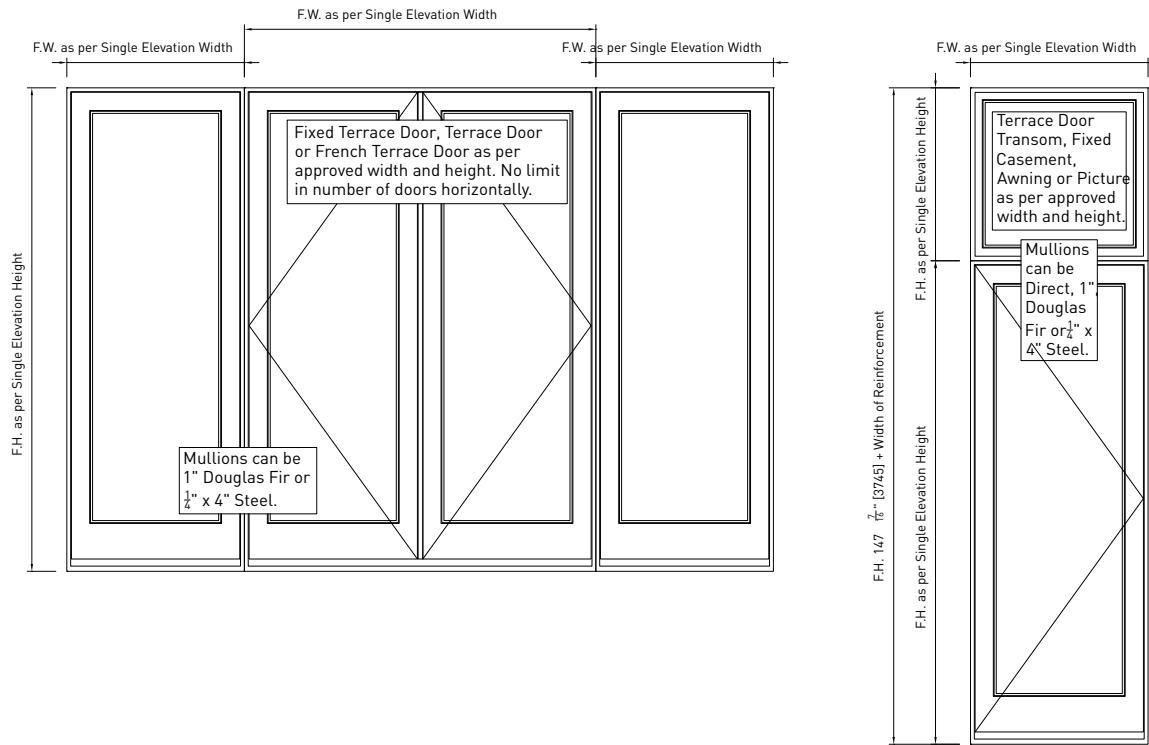
- Other jamb widths available.
- All dimensions to have +/- 1/16" (2 mm) tolerance.

Information is subject to change without notice. | CAD Download: [www.loewen.com/architect](http://www.loewen.com/architect) | Installation Instructions: [www.loewen.com](http://www.loewen.com)

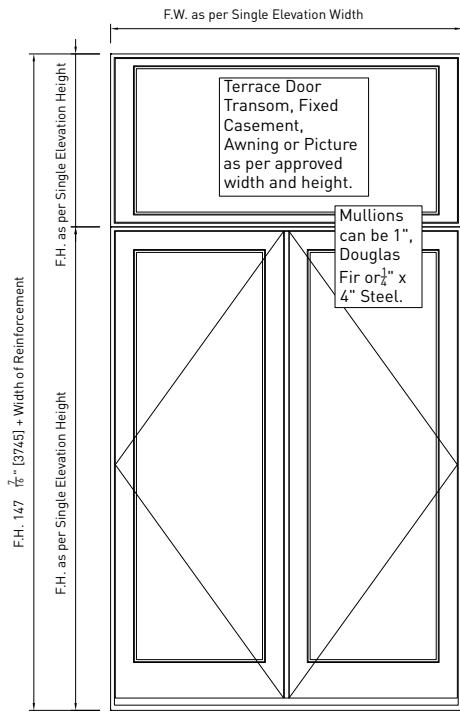
# STORMFORCE OUTSWING TERRACE/FRENCH TERRACE DOOR COMBINATIONS, MULLION DETAIL

## ELEVATIONS

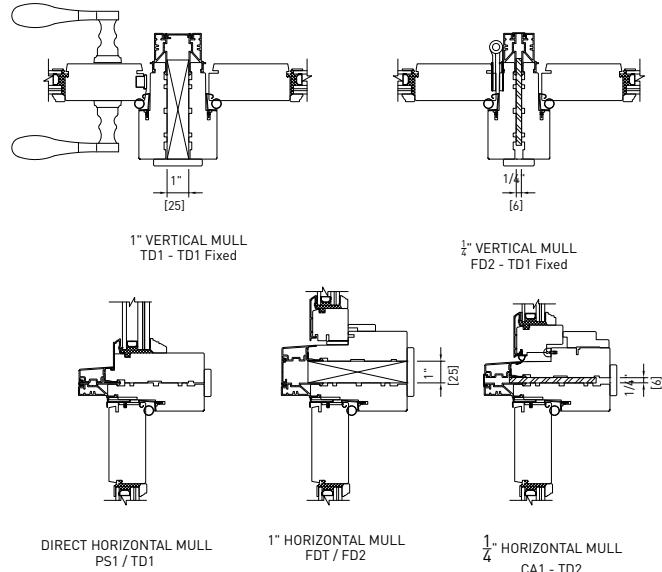
The building structure must carry the load from the windows and mulls.

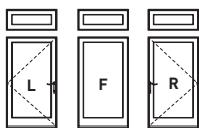


**S53**



## SECTION DETAIL (MULLION EXAMPLES)





## STORMFORCE OUTSWING FRENCH TERRACE DOOR SIZES

ROUGH OPENING			WIDTH					
FRAME		VISIBLE GLASS	47 1/4" 1200	60 15/16" 1548	67 1/2" 1714	72 3/4" 1848	80 5/8" 2048	87 13/16" 2230
16 5/16" 415	15 3/4" 400	9 11/16" 246	FDT2 1204	FDT2 1504	FDT2 1604	FDT2 1804	FDT2 2004	FDT2 2204
24 3/16" 615	23 5/8" 600	17 9/16" 446	FDT2 1206	FDT2 1506	FDT2 1606	FDT2 1806	FDT2 2006	FDT2 2206
80 1/8" 2035	79 1/2" 2020	63 7/8" 1623	FD2 1220	FD2 1520	FD2 1620	FD2 1820	FD2 2020	FD2 2220
81 7/8" 2080	81 5/16" 2065	65 11/16" 1668	FD2 1221	FD2 1521	FD2 1621	FD2 1821	FD2 2021	FD2 2221
86 9/16" 2199	86" 2184	70 3/8" 1787	FD2 1270	FD2 1570	FD2 1670	FD2 1870	FD2 2070	FD2 2270
95 1/16" 2415	94 1/2" 2400	78 7/8" 2003	FD2 1224	FD2 1524	FD2 1624	FD2 1824	FD2 2024	FD2 2224
99 5/8" 2531	99 1/16" 2516	83 7/16" 2119	FD2 1225	FD2 1525	FD2 1625	FD2 1825	FD2 2025	FD2 2225
106 7/8" 2715	106 5/16" 2700	90 11/16" 2303	FD2 1227	FD2 1527	FD2 1627	FD2 1827		

GLASS SIZE = VISIBLE GLASS + 7/8" (22 MM)

Standard Sizes Shown. Custom Sizes Available.

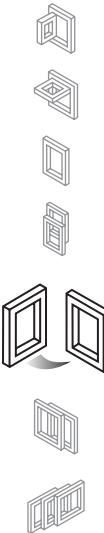
Note: • SDL/Grille patterns are dependent on SDL/Grille type and window size. Please verify SDL/Grille patterns before confirming your order.  
• Sizes are shown as Impact IG.

Transom Units



## STORMFORCE OUTSWING CAMBERTOP FRENCH TERRACE DOOR SIZES

LRA OR LAR



Rough Opening			WIDTH					
	Frame	Visible Glass	47 1/4" 1200	60 15/16" 1548	67 1/2" 1714	72 3/4" 1848	80 5/8" 2048	87 13/16" 2230
80 1/8" 2035	<b>79 1/2" 2020</b>	63 3/4" 1619	<b>FD2 1220</b>	<b>FD2 1520</b>	<b>FD2 1620</b>	<b>FD2 1820</b>	<b>FD2 2020</b>	<b>FD2 2220</b>
81 7/8" 2080	<b>81 5/16" 2065</b>	65 1/2" 1664	<b>FD2 1221</b>	<b>FD2 1521</b>	<b>FD2 1621</b>	<b>FD2 1821</b>	<b>FD2 2021</b>	<b>FD2 2221</b>
86 9/16" 2199	<b>86" 2184</b>	70 3/16" 1783	<b>FD2 1270</b>	<b>FD2 1570</b>	<b>FD2 1670</b>	<b>FD2 1870</b>	<b>FD2 2070</b>	<b>FD2 2270</b>
95 1/16" 2415	<b>94 1/2" 2400</b>	78 3/4" 1999	<b>FD2 1224</b>	<b>FD2 1524</b>	<b>FD2 1624</b>	<b>FD2 1824</b>	<b>FD2 2024</b>	<b>FD2 2224</b>
99 5/8" 2531	<b>99 1/16" 2516</b>	83 5/16" 2115	<b>FD2 1225</b>	<b>FD2 1525</b>	<b>FD2 1625</b>	<b>FD2 1825</b>	<b>FD2 2025</b>	<b>FD2 2225</b>
106 7/8" 2715	<b>106 5/16" 2700</b>	90 1/2" 2299	<b>FD2 1227</b>	<b>FD2 1527</b>	<b>FD2 1627</b>	<b>FD2 1827</b>		

PRODUCT CODE

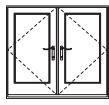
S55

GLASS SIZE = VISIBLE GLASS + 7/8" [22 MM]

**Standard Sizes Shown. Custom Sizes Available.**

Note: • SDL/Grille patterns are dependent on SDL/Grille type and window size. Please verify SDL/Grille patterns before confirming your order.  
• Sizes are shown as Impact IG.

Information is subject to change without notice. | CAD Download: [www.loewen.com/architect](http://www.loewen.com/architect) | Installation Instructions: [www.loewen.com](http://www.loewen.com)



## STORMFORCE INSWING FRENCH TERRACE DOOR SIZES

LRA OR LAR

ROUGH OPENING			WIDTH			
			47 1/4" 1200	60 15/16" 1548	67 1/2" 1714	72 3/4" 1848
FRAME			46 1/2" 1181	60 3/16" 1529	66 3/4" 1695	72" 1829
VISIBLE GLASS			13 1/16" 332	19 15/16" 506	23 3/16" 589	25 13/16" 656
80 1/8" 2035	<b>79 1/2"</b> <b>2020</b>	63 7/8" 1623	<b>FD2</b> <b>1220</b>	<b>FD2</b> <b>1520</b>	<b>FD2</b> <b>1620</b>	<b>FD2</b> <b>1820</b>
81 7/8" 2080	<b>81 5/16"</b> <b>2065</b>	65 11/16" 1668	<b>FD2</b> <b>1221</b>	<b>FD2</b> <b>1521</b>	<b>FD2</b> <b>1621</b>	<b>FD2</b> <b>1821</b>
86 9/16" 2199	<b>86"</b> <b>2184</b>	70 3/8" 1787	<b>FD2</b> <b>1270</b>	<b>FD2</b> <b>1570</b>	<b>FD2</b> <b>1670</b>	<b>FD2</b> <b>1870</b>
95 1/16" 2415	<b>94 1/2"</b> <b>2400</b>	78 7/8" 2003	<b>FD2</b> <b>1224</b>	<b>FD2</b> <b>1524</b>	<b>FD2</b> <b>1624</b>	<b>FD2</b> <b>1824</b>

PRODUCT CODE

GLASS SIZE = VISIBLE GLASS + 7/8" (22 MM)

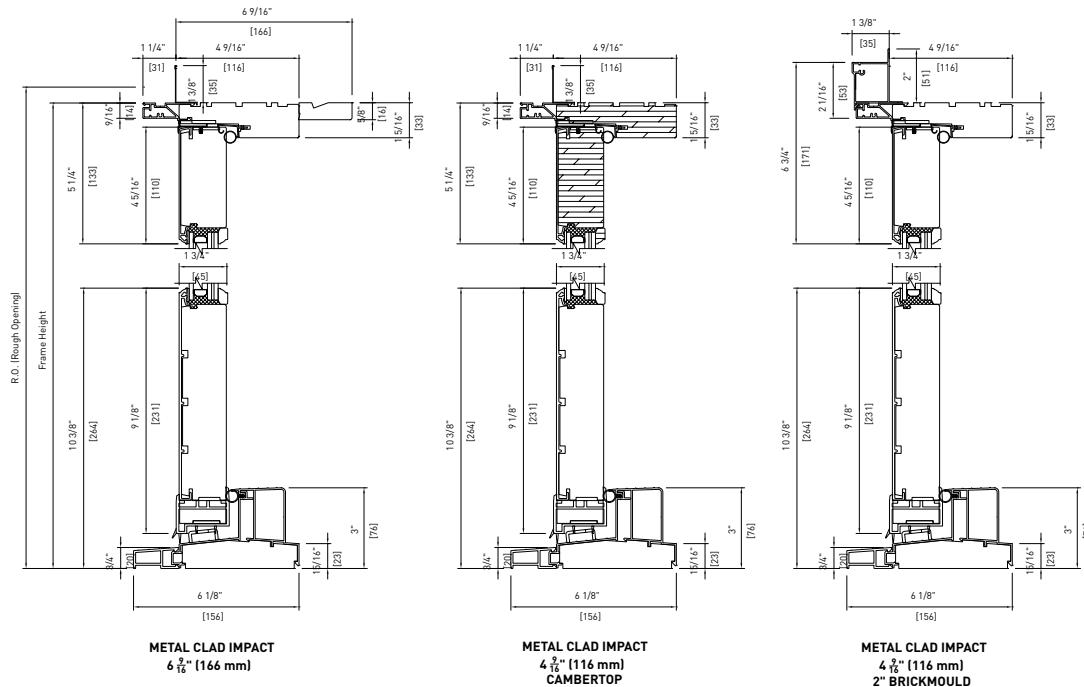
**S56**

**Standard Sizes Shown. Custom Sizes Available.**

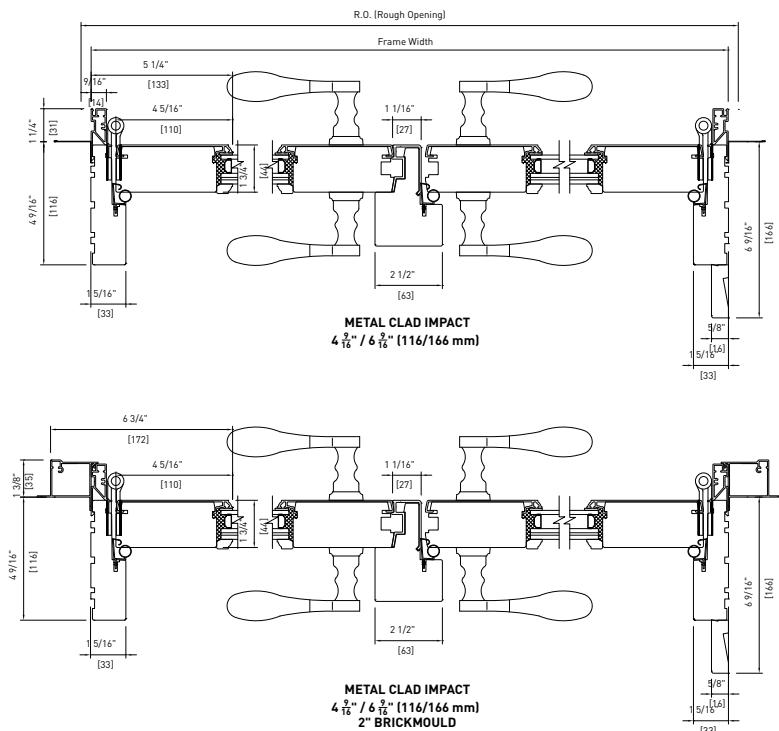
Note: • SDL/Grille patterns are dependent on SDL/Grille type and window size. Please verify SDL/Grille patterns before confirming your order.  
• Sizes are shown as Impact IG.

# STORMFORCE OUTSWING FRENCH TERRACE DOOR DETAIL

## HEAD & SILL DETAIL



## PLAN VIEW



## GLAZING DETAIL

**INSULATED**  
5/32" (3.9 mm) TEMP. Exterior:  
2" (13 mm) Air Space: 10.1 Sea Storm  
[ 5/32" (3.9 mm AN./0.09" (2.29 mm)  
Dupont SGP/5/32" (3.9 mm) AN.] Interior.

11.7 Sea Storm [ 5/16" (4.7 mm AN./0.09"  
(2.29 mm) Dupont SGP/5/16" (4.7 mm) AN.]

### MONOLITHIC

0.033" (.8 mm) Aluminum:  
2 $\frac{3}{4}$ " (19 mm) Plywood

### PLYWOOD

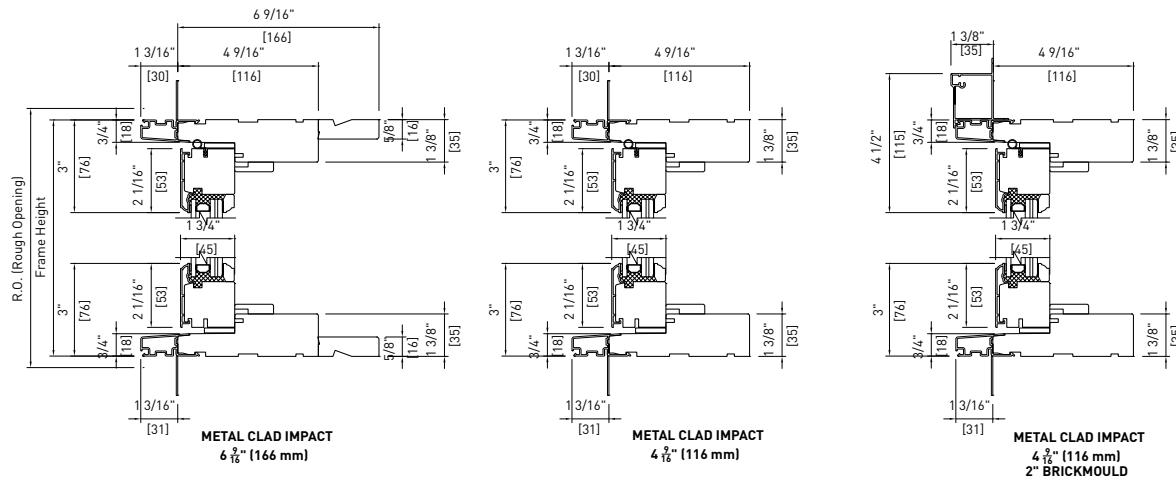
RADIUS  
COMPONENT

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

Information is subject to change without notice. | CAD Download: [www.loewen.com/architect](http://www.loewen.com/architect) | Installation Instructions: [www.loewen.com](http://www.loewen.com)

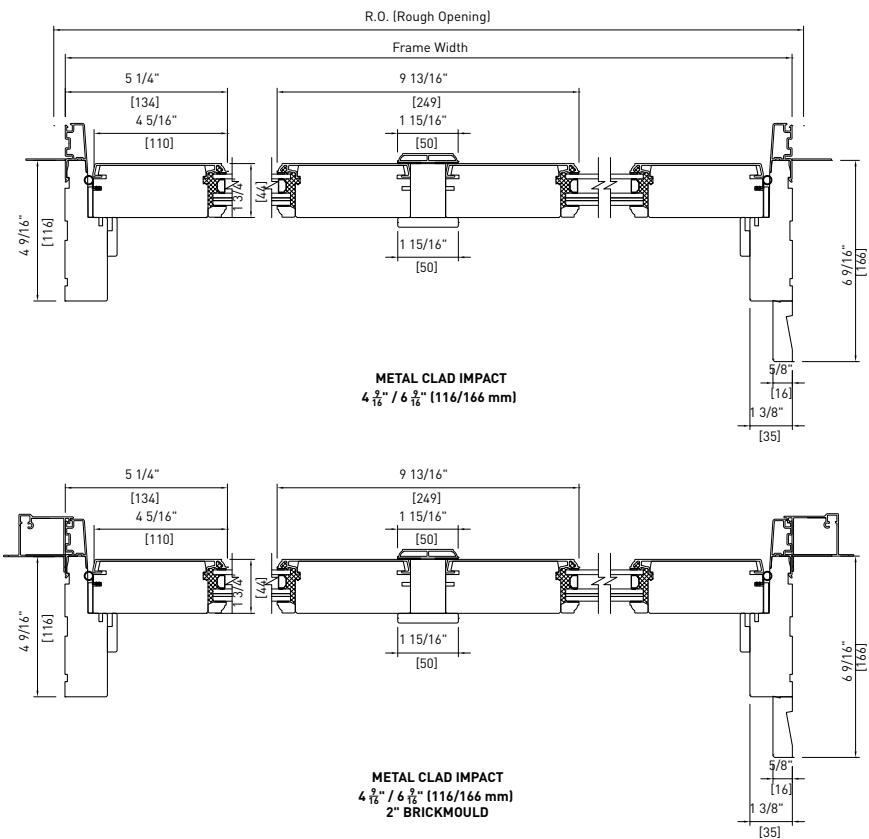
# STORMFORCE FRENCH TERRACE DOOR TRANSOM DETAIL

## HEAD & SILL DETAIL

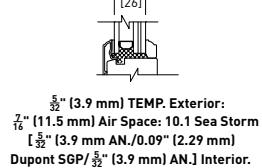


## PLAN VIEW

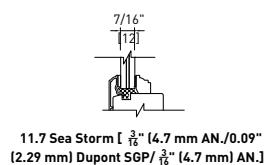
S58



## GLAZING DETAIL



### INSULATED



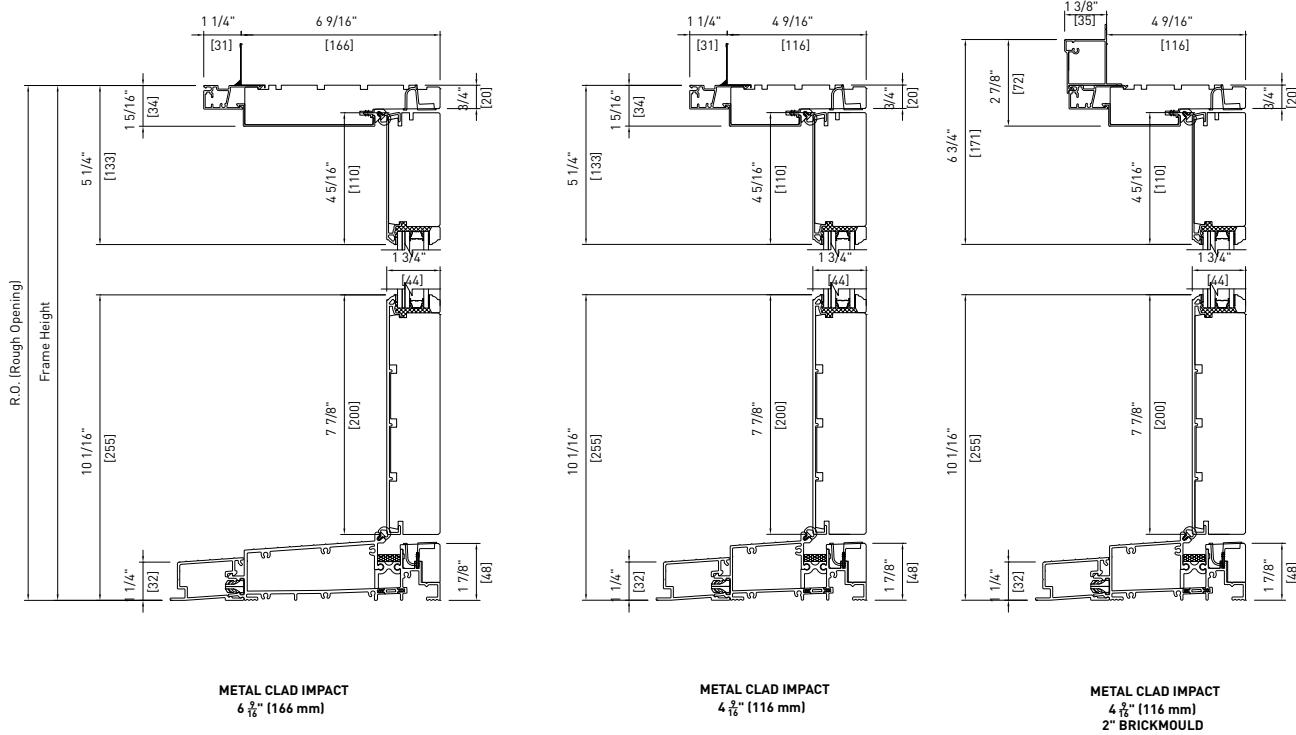
### MONOLITHIC

Standard Sizes Shown. Custom Sizes Available.

Note: • SDL/Grille patterns are dependent on SDL/Grille type and window size. Please verify SDL/Grille patterns before confirming your order.  
• Sizes are shown as Impact IG.

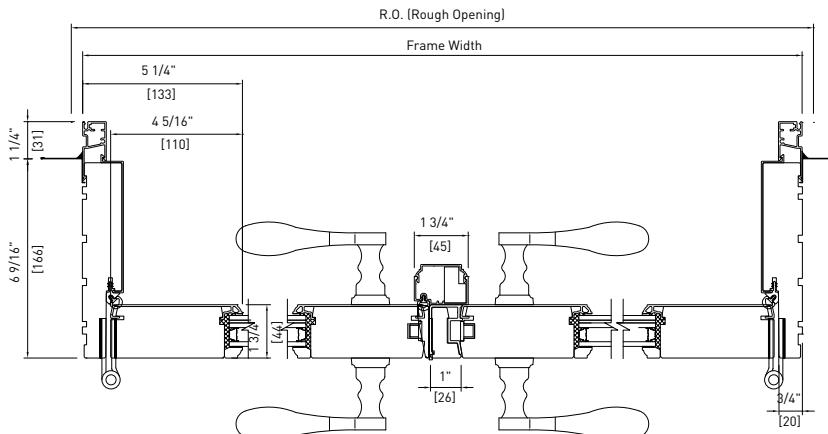
# STORMFORCE INSWING FRENCH TERRACE DOOR DETAIL

## HEAD & SILL DETAIL

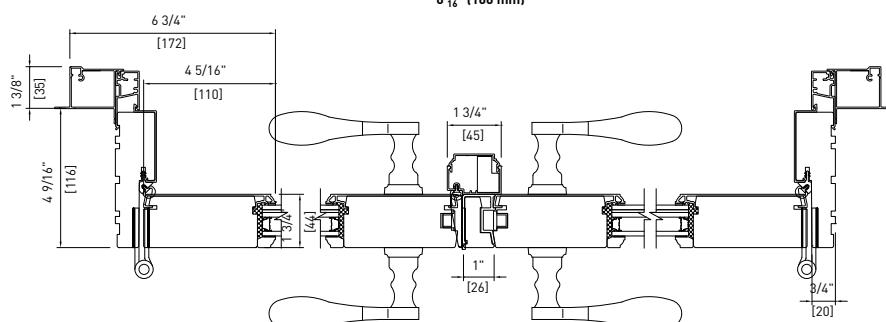
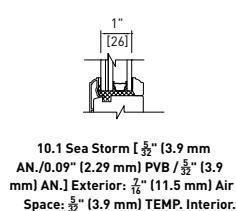


## PLAN VIEW

S59

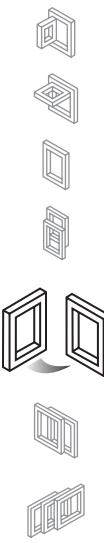


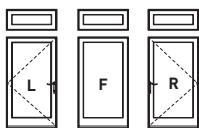
## GLAZING DETAIL



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

**METAL CLAD IMPACT**  
4  $\frac{9}{16}$ " (116 mm)





## STORMFORCE OUTSWING 10' TERRACE/FRENCH TERRACE DOOR SIZES

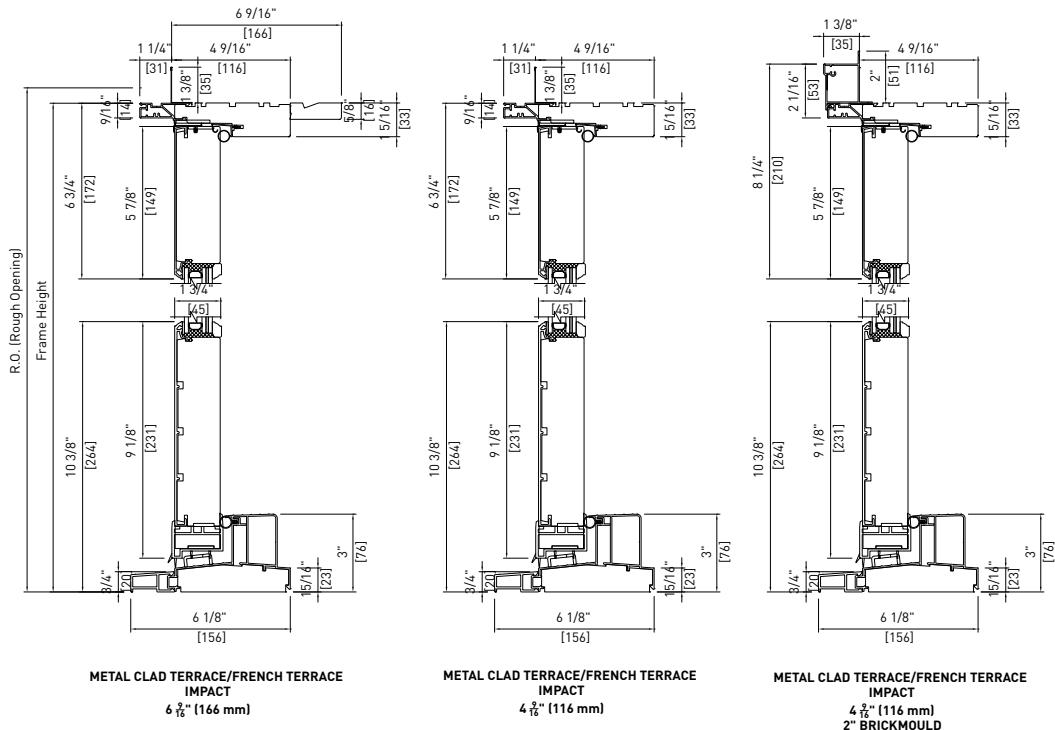
			WIDTH						
Rough Opening			31 1/4" 793	34 1/2" 876	38 5/8" 981	47 1/4" 1200	60 15/16" 1548	67 1/2" 1714	75 3/4" 1924
HEIGHT	Frame		30 1/2" 774	33 3/4" 857	37 7/8" 962	46 1/2" 1181	60 3/16" 1529	66 3/4" 1695	75" 1905
	Visible Glass		19 15/16" 506	23 3/16" 589	24 1/4" 616	13 1/16" 332	19 15/16" 506	23 3/16" 589	24 1/4" 616
124" 3150	<b>123 7/16"</b> <b>3135</b>	106 1/4" 2699	<b>TD1</b> <b>0732</b>	<b>TD1</b> <b>0832</b>	<b>TD1</b> <b>0932</b>				
124" 3150	<b>123 7/16"</b> <b>3135</b>	106 1/4" 2699					<b>FD2</b> <b>1232</b>	<b>FD2</b> <b>1532</b>	<b>FD2</b> <b>1632</b>
									<b>FD2</b> <b>1832</b>

GLASS SIZE = VISIBLE GLASS + 7/8" (22 MM)

**S60**

# STORMFORCE OUTSWING 10' TERRACE/FRENCH TERRACE DOOR DETAIL

## HEAD & SILL DETAIL



## PLAN VIEW

S61

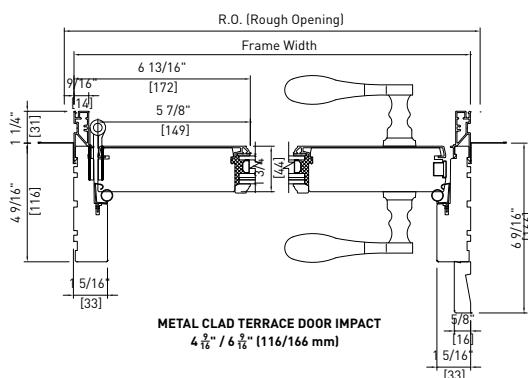
### GLAZING DETAIL

$\frac{5}{32}$ " (3.9 mm) TEMP. Exterior:  
 $\frac{1}{2}$ " (13 mm) Air Space: 10.1 Sea Storm [  
 $\frac{3}{32}$ " (3.9 mm AN, 0.09" (2.29 mm)  
 Dupont SGP/ $\frac{3}{16}$ " (3.9 mm) AN] Interior.

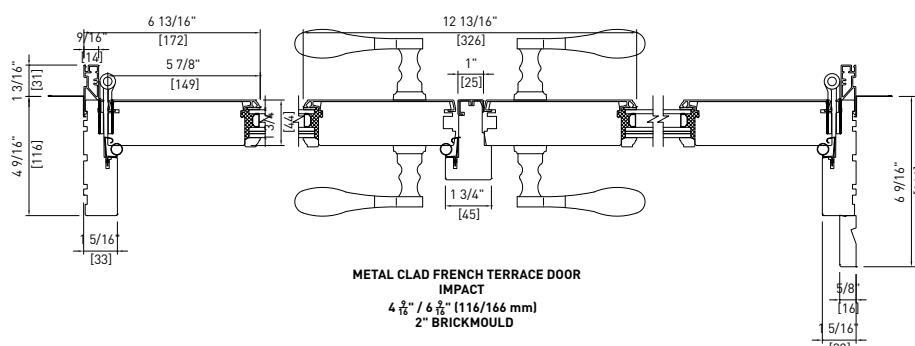
#### INSULATED

11.7 Sea Storm [ $\frac{3}{16}$ " (4.7 mm AN, 0.09"  
 (2.29 mm) Dupont SGP/ $\frac{3}{16}$ " (4.7 mm) AN.]

#### MONOLITHIC



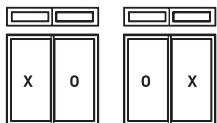
METAL CLAD TERRACE DOOR IMPACT  
4  $\frac{9}{16}$ " / 6  $\frac{9}{16}$ " (116/166 mm)



Reference FL # 14369 for complete installation instructions and sizing restriction.  
[http://www.floridabuilding.org/upload/PR\\_Instl\\_Docs/FL14369\\_R1\\_II\\_Drawing%20201640A.pdf](http://www.floridabuilding.org/upload/PR_Instl_Docs/FL14369_R1_II_Drawing%20201640A.pdf)

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

Information is subject to change without notice. | CAD Download: [www.loewen.com/architect](http://www.loewen.com/architect) | Installation Instructions: [www.loewen.com](http://www.loewen.com)



## STORMFORCE PATIO DOOR 2 WIDE DOOR SIZES

ROUGH OPENING			WIDTH		
			59 13/16" 1519	71 5/8" 1819	95 1/4" 2419
			Frame	59 1/16" 1500	70 7/8" 1800
			Visible Glass	24 1/8" 612	30" 762
80 1/8" 2035	<b>79 1/2" 2020</b>	70 1/2" 1790	WP2 1520	WP2 1820	WP2 2420
81 7/8" 2080	<b>81 5/16" 2065</b>	72 1/4" 1835	WP2 1568	WP2 1868	WP2 2468
83 1/4" 2115	<b>82 11/16" 2100</b>	73 5/8" 1870	WP2 1521	WP2 1821	WP2 2421
86 9/16" 2199	<b>86" 2184</b>	76 15/16" 1954	WP2 1570	WP2 1870	WP2 2470
95 1/16" 2415	<b>94 1/2" 2400</b>	85 7/16" 2170	WP2 1524	WP2 1824	WP2 2424

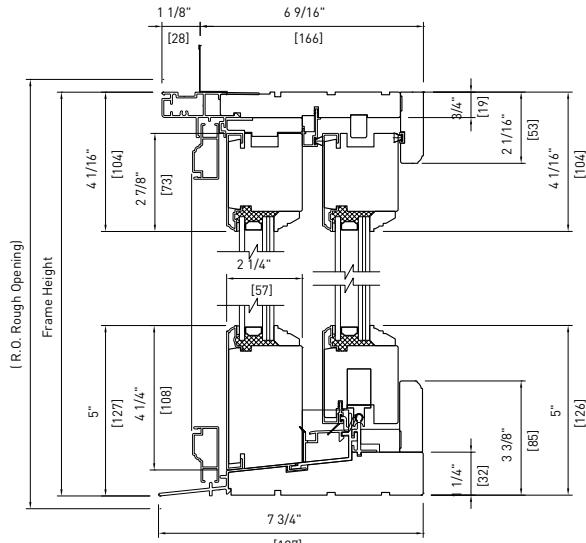
PRODUCT CODE

GLASS SIZE = VISIBLE GLASS + 7/8" [22 MM]

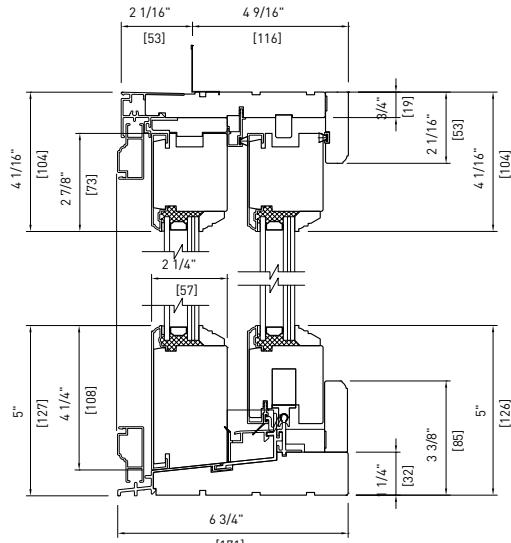
**S62**

# STORMFORCE PATIO DOOR DETAIL

## HEAD & SILL DETAIL

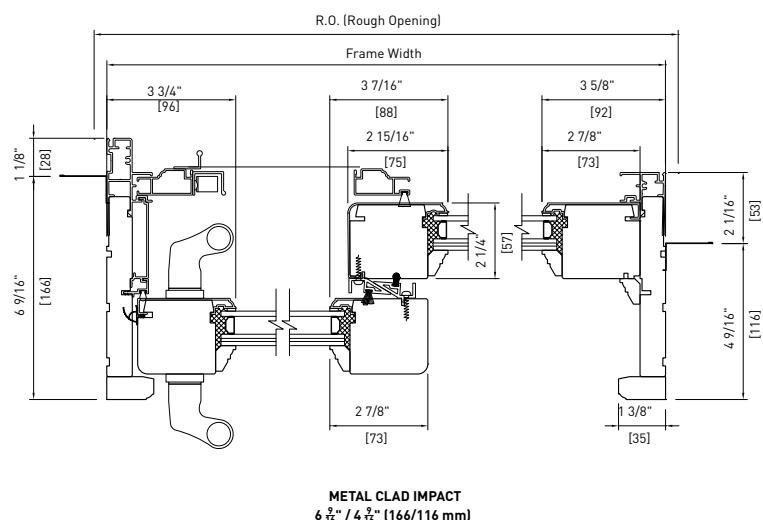


METAL CLAD IMPACT  
 $6 \frac{9}{16}$ " (166 mm)



METAL CLAD IMPACT  
 $4 \frac{9}{16}$ " (116 mm)

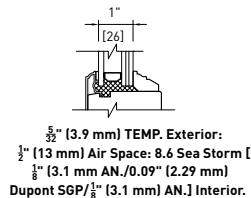
## PLAN VIEW



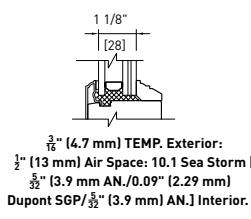
METAL CLAD IMPACT  
 $6 \frac{9}{16} / 4 \frac{9}{16}$ " (166/116 mm)

## GLAZING DETAIL

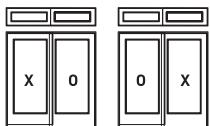
S63



$\frac{5}{32}$ " (3.9 mm) TEMP. Exterior:  
 $\frac{1}{2}$ " (13 mm) Air Space: 8.6 Sea Storm [  
 $\frac{1}{8}$ " (3.1 mm) AN./0.09" (2.29 mm)  
 Dupont SGP/ $\frac{1}{8}$ " (3.1 mm) AN.] Interior.



$\frac{3}{16}$ " (4.7 mm) TEMP. Exterior:  
 $\frac{1}{2}$ " (13 mm) Air Space: 10.1 Sea Storm [  
 $\frac{5}{32}$ " (3.9 mm) AN./0.09" (2.29 mm)  
 Dupont SGP/ $\frac{5}{32}$ " (3.9 mm) AN.] Interior.



## STORMFORCE FRENCH PATIO DOOR 2 WIDE DOOR SIZES

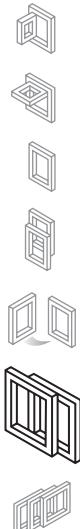
			WIDTH		
Rough Opening			59 13/16" 1519	71 5/8" 1819	95 1/4" 2419
		Frame	59 1/16" 1500	70 7/8" 1800	94 1/2" 2400
		Visible Glass	21 13/16" 538	27 1/16" 688	38 7/8" 988
80 1/8" 2035	<b>79 1/2"</b> <b>2020</b>	64" 1626	<b>FP2</b> <b>1520</b>	<b>FP2</b> <b>1820</b>	<b>FP2</b> <b>2420</b>
81 7/8" 2080	<b>81 5/16"</b> <b>2065</b>	65 13/16" 1671	<b>FP2</b> <b>1568</b>	<b>FP2</b> <b>1868</b>	<b>FP2</b> <b>2468</b>
83 1/4" 2115	<b>82 11/16"</b> <b>2100</b>	67 3/16" 1706	<b>FP2</b> <b>1521</b>	<b>FP2</b> <b>1821</b>	<b>FP2</b> <b>2421</b>
86 9/16" 2199	<b>86"</b> <b>2184</b>	70 1/2" 1790	<b>FP2</b> <b>1570</b>	<b>FP2</b> <b>1870</b>	<b>FP2</b> <b>2470</b>
95 1/16" 2415	<b>94 1/2"</b> <b>2400</b>	79" 2006	<b>FP2</b> <b>1524</b>	<b>FP2</b> <b>1824</b>	<b>FP2</b> <b>2424</b>
106 7/8" 2715	<b>106 5/16"</b> <b>2700</b>	90 13/16" 2306	<b>FP2</b> <b>1527</b>	<b>FP2</b> <b>1827</b>	<b>FP2</b> <b>2427</b>

S64

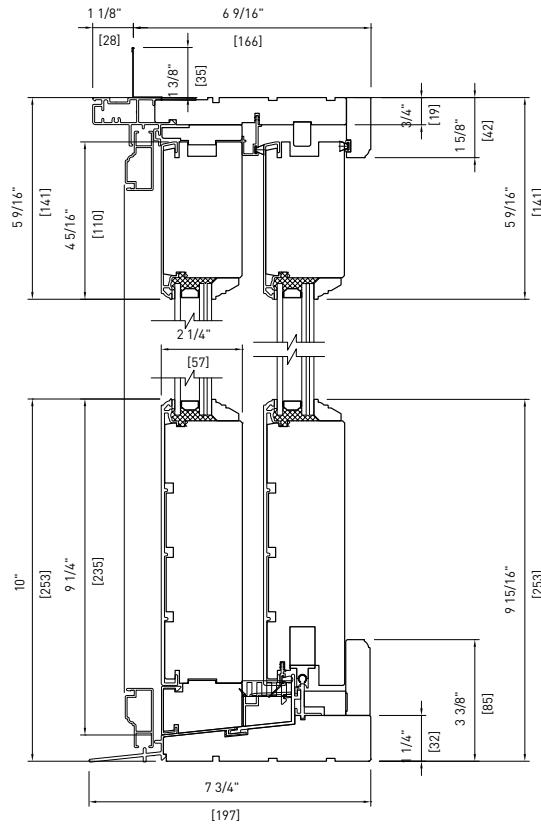
PRODUCT CODE

GLASS SIZE = VISIBLE GLASS + 7/8" (22 MM)

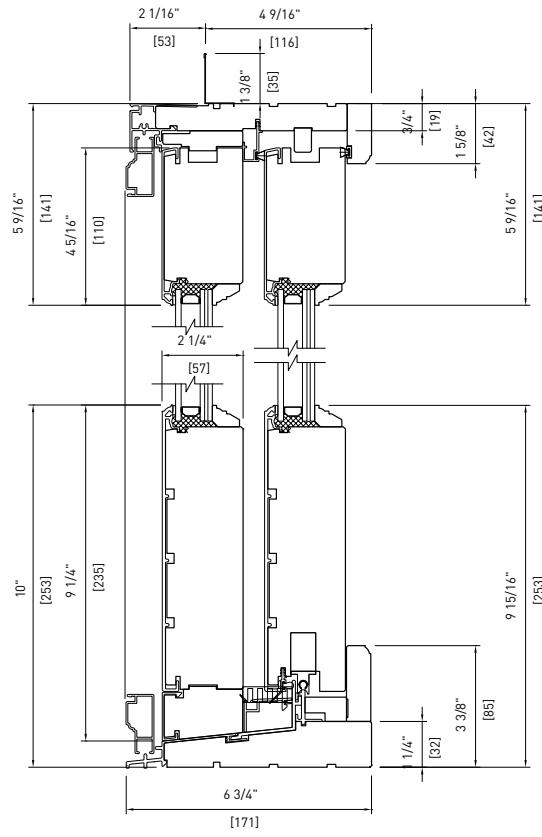
# STORMFORCE FRENCH PATIO DOOR 2 WIDE DOOR SIZES



## HEAD & SILL DETAIL

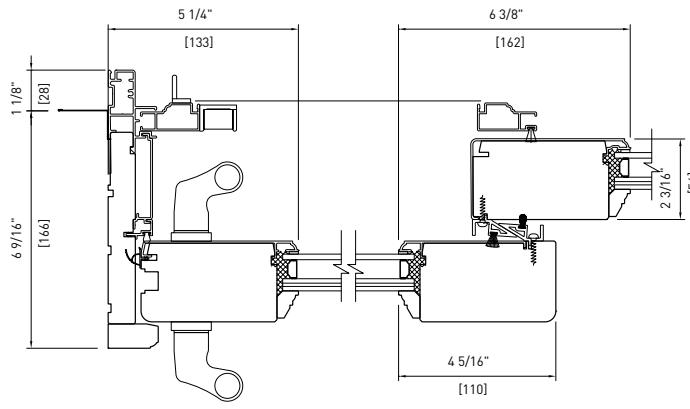


**METAL CLAD IMPACT**  
 **$6\frac{9}{16}$ " (166 mm)**



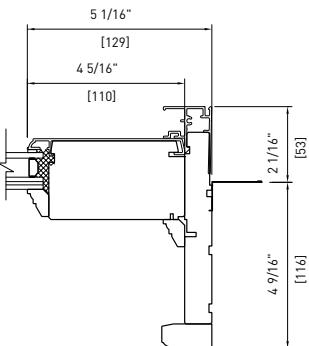
**METAL CLAD IMPACT**  
**4  $\frac{9}{16}$ " (116 mm)**

## PLAN VIEW



## METAL CLAD IMPACT $6\frac{9}{16}''$ / $4\frac{9}{16}''$ (166/116 mm)

## GLAZING DETAIL



**5/32"** (3.9 mm) TEMP. Exterior:  
**1/2"** (13 mm) Air Space: 8.6 Sea Storm [  
**1/8"** (3.1 mm AN./.09" (2.29 mm)  
**Dupont SGP/1/8"** (3.1 mm) AN.] Interior.

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

# STORMFORCE LIFTSIDE STACKING DOOR SIZES

Rough Opening			73" 1859	106" 2692	139" 3531	172" 4369	205" 5207	121" 3074	178 1/16" 4497	235 1/16" 5970	292 1/16" 7419	349 1/16" 8867	
System			72" 1829	105" 2667	138" 3505	171" 4343	204" 5182	120" 3049	177 1/16" 4497	234 1/16" 5945	291 1/16" 7393	348 1/16" 8841	
Panel			36" 914	36" 914	36" 914	36" 914	36" 914	60" 1524	60" 1524	60" 1524	60" 1524	60" 1524	
Jamb			8 1/16" 204	11 7/8" 302	15 3/4" 400	19 5/8" 498	23 7/16" 596	8 1/16" 204	11 7/8" 302	15 3/4" 400	19 5/8" 498	23 7/16" 596	
88 7/16" 52246	<b>87 7/16"</b> <b>2221</b>	84" 2134		OX XO	OXX XXO	XXXX XXXO	XXXXX XXXXO	XXXXXX XXXXO	OX XO	OXX XXO	XXXX XXXO	XXXXX XXXXO	XXXXXX XXXXO
100 7/16" 2551	<b>99 7/16"</b> <b>2526</b>	96" 2438		OX XO	OXX XXO	XXXX XXXO	XXXXX XXXXO	XXXXXX XXXXO	OX XO	OXX XXO	XXXX XXXO	XXXXX XXXXO	XXXXXX XXXXO
112 7/16" 2856	<b>111 7/16"</b> <b>2831</b>	108" 2743		OX XO	OXX XXO	XXXX XXXO	XXXXX XXXXO	XXXXXX XXXXO	OX XO	OXX XXO	XXXX XXXO	XXXXX XXXXO	XXXXXX XXXXO
124 7/16" 3161	<b>123 7/16"</b> <b>3135</b>	120" 3048		OX XO	OXX XXO	XXXX XXXO	XXXXX XXXXO	XXXXXX XXXXO	OX XO	OXX XXO	XXXX XXXO	XXXXX XXXXO	XXXXXX XXXXO
*144" 3658	<b>143"</b> <b>3632</b>	139 9/16" 3545		OX XO	OXX XXO	XXXX XXXO	XXXXX XXXXO	XXXXXX XXXXO	OX XO	OXX XXO	XXXX XXXO	XXXXX XXXXO	XXXXXX XXXXO

S66

GLASS SIZE = VISIBLE GLASS + 1 3/8" (35 MM)

## Custom Sizes Available.

\*Maximum Height

- Note:
- Sizes shown are typical details.
  - Additional sizes and configurations available.
  - Screen options may be available depending on size and configuration.
  - Raised threshold available with a maximum of 6 panels per sill (12 in a bi-parting configuration; 2 per track).
  - Consult your Authorized Dealer for details.
  - All dimensions to have +/- 1/16" (2 mm) tolerance.
  - O = Fixed, X = Operating, P = Pocketing
  - The preparation of the rough opening for large openings such as those required by, but not limited to, LiftSlide doors have unique requirements. Structural headers that allow for deflection no greater than 1/8" along the unsupported length once the header is fully loaded are required. Special care needs to be taken when installing any unit including transoms above such large opening units. Loewen is not responsible for site measurements or the determination of structural and architectural requirements for the installation of large opening products such as but not limited to, Liftslide doors. Site specifications are the responsibility of building professionals or engineers to determine.

See Chart for Allowable DP

DP 70 Allowable

(See Cross Sections for Sill Riser Restrictions)

# STORMFORCE LIFTSIDE BI-PARTING DOOR SIZES

Rough Opening			WIDTH					MAXIMUM WIDTH				
System			142 3/16" 3612	208 3/16" 5288	274 3/16" 6964	340 3/16" 8641	406 3/16" 10317	238 1/4" 6051	352 1/4" 8948	466 5/16" 11844	580 5/16" 14740	694 3/8" 17637
Panel			141 3/16" 3586	207 3/16" 5263	273 3/16" 6939	339 3/16" 8615	405 3/16" 5182	237 1/4" 6026	351 1/4" 8922	465 5/16" 11819	579 5/16" 14715	693 3/8" 17611
Jamb			36" 914	36" 914	36" 914	36" 914	36" 914	60" 1524	60" 1524	60" 1524	60" 1524	60" 1524
88 7/16" 52246	87 7/16" 2221	84" 2134		OX-XO	OXX-XXO	XXXX- XXXO	XXXXX- XXXXO		OX-XO	OXX-XXO	XXXX- XXXO	XXXXX- XXXXO
100 7/16" 2551	99 7/16" 2526	96" 2438		OX-XO	OXX-XXO	XXXX- XXXO	XXXXX- XXXXO		OX-XO	OXX-XXO	XXXX- XXXO	XXXXX- XXXXO
112 7/16" 2856	111 7/16" 2831	108" 2743		OX-XO	OXX-XXO	XXXX- XXXO	XXXXX- XXXXO		OX-XO	OXX-XXO	XXXX- XXXO	XXXXX- XXXXO
124 7/16" 3161	123 7/16" 3135	120" 3048		OX-XO	OXX-XXO	XXXX- XXXO	XXXXX- XXXXO		OX-XO	OXX-XXO	XXXX- XXXO	XXXXX- XXXXO
*144" 3658	143" 3632	139 9/16" 3545		OX-XO	OXX-XXO	XXXX- XXXO	XXXXX- XXXXO		OX-XO	OXX-XXO	XXXX- XXXO	XXXXX- XXXXO

PRODUCT CODE

S67

ALLOWABLE DESIGN PRESSURE (ALL DOORS)					
Maximum Frame Height (in.)	Maximum Panel Width (in.)	Allowable Pressure (+/- PSF)	Maximum Frame Height (in.)	Maximum Panel Width (in.)	Allowable Pressure (+/- PSF)
143	60	50	120	60	59
	54	55		54	66
	48	62		51	70
	42	70		60	66
132	60	54	108	56	70
	54	60		60	70
	48	67			
	46	70			

GLASS SIZE = VISIBLE GLASS + 1 3/8" (35 MM)

Standard Sizes Shown. Custom Sizes Available.

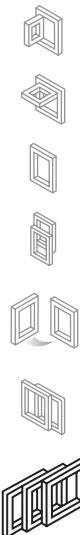
\*Maximum Height

- Note:
- Sizes shown are typical details.
  - Additional sizes and configurations available.
  - Screen options may be available depending on size and configuration.
  - Raised threshold available with a maximum of 6 panels per sill (12 in a bi-parting configuration; 2 per track).
  - Consult your Authorized Dealer for details.
  - All dimensions have +/- 1/16" (2 mm) tolerance.
  - O = Fixed, X = Operating, P = Pocketing
  - The preparation of the rough opening for large openings such as those required by, but not limited to, LiftSlide doors have unique requirements. Structural headers that allow for deflection no greater than 1/8" along the unsupported length once the header is fully loaded are required. Special care needs to be taken when installing any unit including transoms above such large opening units. Loewen is not responsible for site measurements or the determination of structural and architectural requirements for the installation of large opening products such as but not limited to, Liftslide doors. Site specifications are the responsibility of building professionals or engineers to determine.

See Chart for Allowable DP

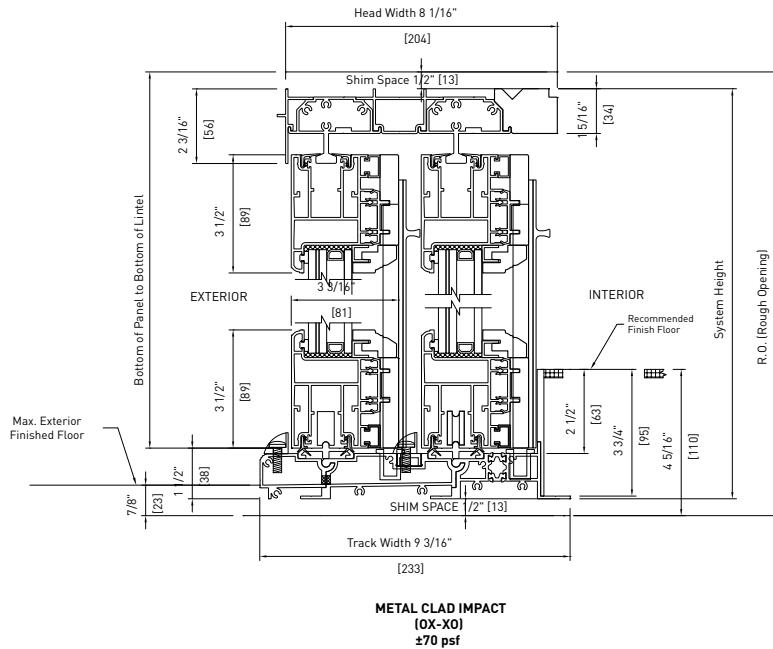
DP 70 Allowable

(See Cross Sections for Sill Riser Restrictions)

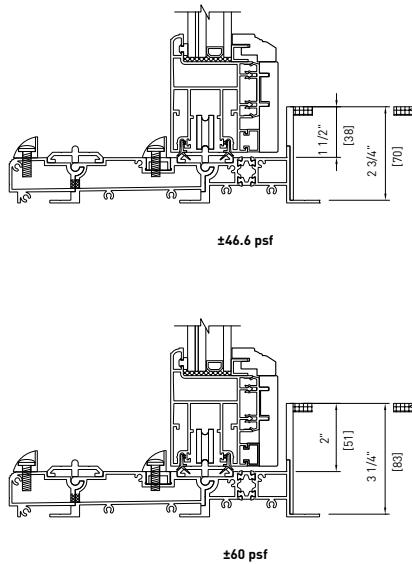


# STORMFORCE LIFTSIDE DOOR JAMB DETAIL

## HEAD & SILL DETAIL

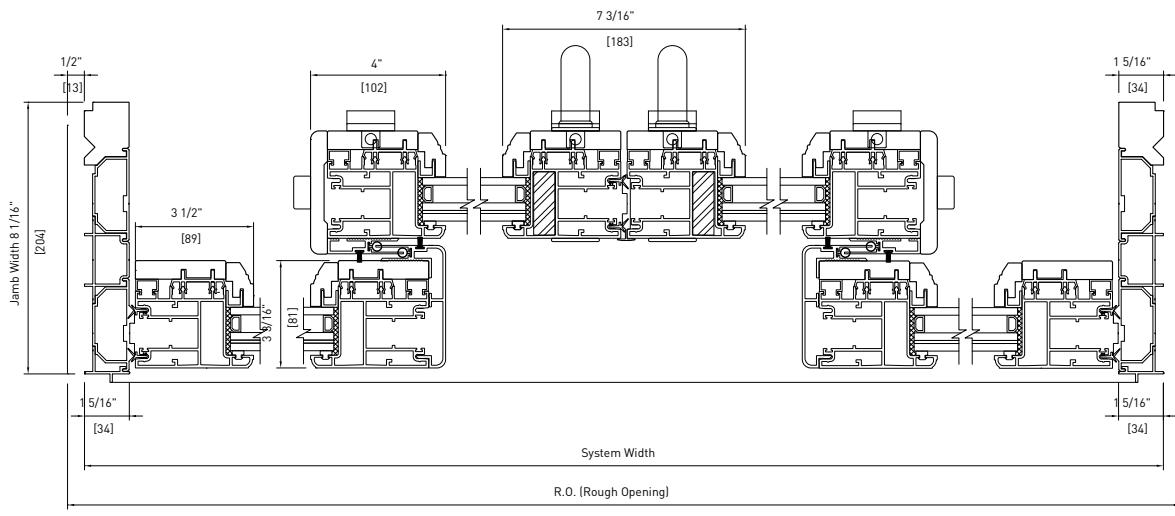


## OPTIONAL RISERS



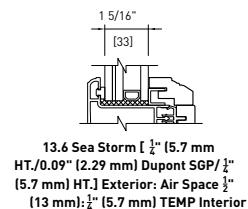
## PLAN VIEW

S68

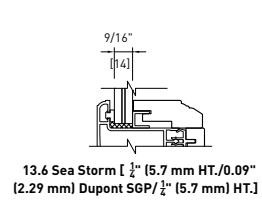


Note: • Other configurations available.  
• All dimensions to have +/- 1/16" (2 mm) tolerance.

## GLAZING DETAILS



INSULATED





# STORMFORCE LIFTSIDE STACKING WITH POCKET DOOR SIZES

Rough Opening			WIDTH						MAXIMUM WIDTH					
System			39 11/16" 1008	72 5/8" 1845	105 5/8" 2683	138 5/8" 3521	171 5/8" 4360	204 5/8" 5198	63 11/16" 1618	120 11/16" 3065	177 11/16" 4513	234 11/16" 5961	291 11/16" 7410	348 3/4" 8858
Panel			79" 2007	112" 2844	144 15/16" 3682	177 15/16" 4520	211" 5359	244" 6197	127" 3226	184" 4674	241" 6122	298 1/16" 7570	355 1/16" 9019	412 1/16" 10467
Jamb			8 1/8" 206	9 11/16" 246	13 1/2" 343	17 3/8" 442	21 1/4" 539	25 1/16" 637	60" 1524	60" 1524	60" 1524	60" 1524	60" 1524	60" 1524
88 7/16" 52246	87 7/16" 2221	84" 2134	PX XP	PXX XXP	PXXX XXXP	PXXXX XXXXP	PXXXXX XXXXXP	PXXXXXX XXXXXP	PX XP	PXX XXP	PXXX XXXP	PXXXX XXXXP	PXXXXX XXXXXP	PXXXXXX XXXXXP
100 7/16" 2551	99 7/16" 2526	96" 2438	PX XP	PXX XXP	PXXX XXXP	PXXXX XXXXP	PXXXXX XXXXXP	PXXXXXX XXXXXP	PX XP	PXX XXP	PXXX XXXP	PXXXX XXXXP	PXXXXX XXXXXP	PXXXXXX XXXXXP
112 7/16" 2856	111 7/16" 2831	108" 2743	PX XP	PXX XXP	PXXX XXXP	PXXXX XXXXP	PXXXXX XXXXXP	PXXXXXX XXXXXP	PX XP	PXX XXP	PXXX XXXP	PXXXX XXXXP	PXXXXX XXXXXP	PXXXXXX XXXXXP
124 7/16" 3161	123 7/16" 3135	120" 3048	PX XP	PXX XXP	PXXX XXXP	PXXXX XXXXP	PXXXXX XXXXXP	PXXXXXX XXXXXP	PX XP	PXX XXP	PXXX XXXP	PXXXX XXXXP	PXXXXX XXXXXP	PXXXXXX XXXXXP
*144" 3658	143" 3632	139 9/16" 3545	PX XP	PXX XXP	PXXX XXXP	PXXXX XXXXP	PXXXXX XXXXXP	PXXXXXX XXXXXP	PX XP	PXX XXP	PXXX XXXP	PXXXX XXXXP	PXXXXX XXXXXP	PXXXXXX XXXXXP

GLASS SIZE = VISIBLE GLASS + 1 3/8" (35 MM)

## Custom Sizes Available.

\*Maximum Height

- Note:
- Sizes shown are typical details.
  - Additional sizes and configurations available.
  - Screen options may be available depending on size and configuration.
  - Raised threshold available with a maximum of 6 panels per sill (12 in a bi-parting configuration; 2 per track).
  - Consult your Authorized Dealer for details.
  - All dimensions to have +/- 1/16" (2 mm) tolerance.
  - O = Fixed, X = Operating, P = Pocketing
  - The preparation of the rough opening for large openings such as those required by, but not limited to, LiftSlide doors have unique requirements. Structural headers that allow for deflection no greater than 1/8" along the unsupported length once the header is fully loaded are required. Special care needs to be taken when installing any unit including transoms above such large opening units. Loewen is not responsible for site measurements or the determination of structural and architectural requirements for the installation of large opening products such as but not limited to, Liftslide doors. Site specifications are the responsibility of building professionals or engineers to determine.

See Chart for Allowable DP

DP 70 Allowable

(See Cross Sections for Sill Riser Restrictions)

# STORMFORCE LIFTSIDE BI-PARTING WITH POCKET DOOR SIZES

Rough Opening			WIDTH						MAXIMUM WIDTH					
System			39 11/16" 1008	72 5/8" 1845	105 5/8" 2683	138 5/8" 3521	171 5/8" 4360	204 5/8" 5198	63 11/16" 1618	120 11/16" 3065	177 11/16" 4513	234 11/16" 5961	291 11/16" 7410	348 3/4" 8858
Panel			79" 2007	112" 2844	144 15/16" 3682	177 15/16" 4520	211" 5359	244" 6197	127" 3226	184" 4674	241" 6122	298 1/16" 7570	355 1/16" 9019	412 1/16" 10467
Jamb			36" 914	36" 914	36" 914	36" 914	36" 914	36" 914	60" 1524	60" 1524	60" 1524	60" 1524	60" 1524	60" 1524
Pocket			8 1/8" 206	9 11/16" 246	13 1/2" 343	17 3/8" 442	21 1/4" 539	25 1/16" 637	8 1/8" 206	9 11/16" 246	13 9/16" 344	17 3/8" 442	21 1/4" 539	25 1/16" 637
88 7/16" 52246	87 7/16" 2221	84" 2134	PX-XP	PXX-XXP	PXXX-XXXP	PXXXX-X XXXP	PXXXXX-XXXXP	PXXXXXX-XXXXXP	PX-XP	PXX-XXP	PXXX-XXXP	PXXXX-X XXXP	PXXXXX-XXXXP	PXXXXXX-XXXXXP
100 7/16" 2551	99 7/16" 2526	96" 2438	PX-XP	PXX-XXP	PXXX-XXXP	PXXXX-X XXXP	PXXXXX-XXXXP	PXXXXXX-XXXXXP	PX-XP	PXX-XXP	PXXX-XXXP	PXXXX-X XXXP	PXXXXX-XXXXP	PXXXXXX-XXXXXP
112 7/16" 2856	111 7/16" 2831	108" 2743	PX-XP	PXX-XXP	PXXX-XXXP	PXXXX-X XXXP	PXXXXX-XXXXP	PXXXXXX-XXXXXP	PX-XP	PXX-XXP	PXXX-XXXP	PXXXX-X XXXP	PXXXXX-XXXXP	PXXXXXX-XXXXXP
124 7/16" 3161	123 7/16" 3135	120" 3048	PX-XP	PXX-XXP	PXXX-XXXP	PXXXX-X XXXP	PXXXXX-XXXXP	PXXXXXX-XXXXXP	PX-XP	PXX-XXP	PXXX-XXXP	PXXXX-X XXXP	PXXXXX-XXXXP	PXXXXXX-XXXXXP
*144" 3658	143" 3632	139 9/16" 3545	PX-XP	PXX-XXP	PXXX-XXXP	PXXXX-X XXXP	PXXXXX-XXXXP	PXXXXXX-XXXXXP	PX-XP	PXX-XXP	PXXX-XXXP	PXXXX-X XXXP	PXXXXX-XXXXP	PXXXXXX-XXXXXP

PRODUCT CODE

S71

ALLOWABLE DESIGN PRESSURE (ALL DOORS)					
Maximum Frame Height (in.)	Maximum Panel Width (in.)	Allowable Pressure (+/- PSF)	Maximum Frame Height (in.)	Maximum Panel Width (in.)	Allowable Pressure (+/- PSF)
143	60	50	120	60	59
	54	55		54	66
	48	62		51	70
	42	70		60	66
132	60	54	108	56	70
	54	60		60	70
	48	67			
	46	70			

GLASS SIZE = VISIBLE GLASS + 1 3/8" [35 MM]

Standard Sizes Shown. Custom Sizes Available.

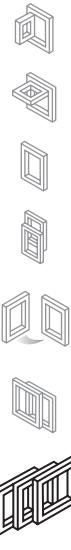
\*Maximum Height

- Note:
- Sizes shown are typical details.
  - Additional sizes and configurations available.
  - Screen options may be available depending on size and configuration.
  - Raised threshold available with a maximum of 6 panels per sill (12 in a bi-parting configuration; 2 per track).
  - Consult your Authorized Dealer for details.
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See Chart for Allowable DP

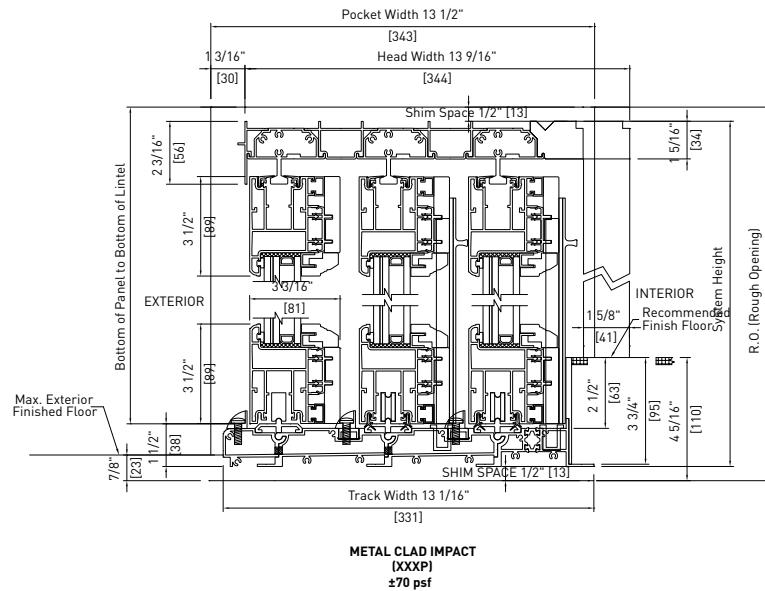
DP 70 Allowable

(See Cross Sections for Sill Riser Restrictions)

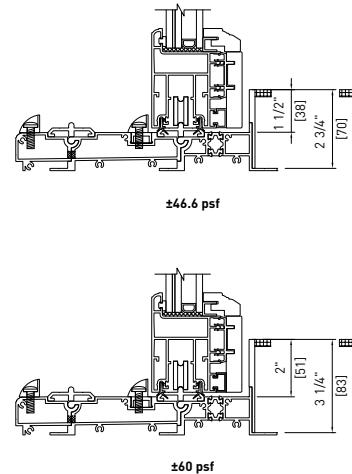


# STORMFORCE LIFTSIDE DOOR POCKET DETAIL

## HEAD & SILL DETAIL

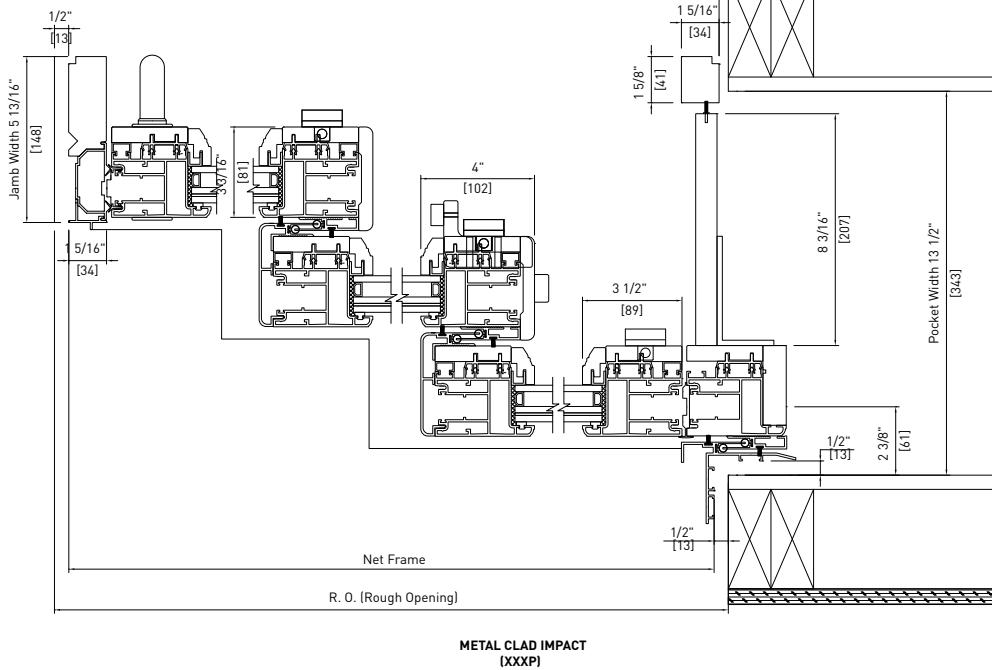


## OPTIONAL RISERS

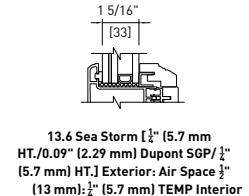


## PLAN VIEW

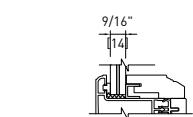
S72



## GLAZING DETAIL



### INSULATED



### MONOLITHIC

- Note:
- Other configurations available.
  - All dimensions to have +/- 1/16" (2 mm) tolerance.



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