

**EUROLINE**  
STEEL WINDOWS & DOORS

# Product Guide 2021

April 13, 2021





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# Euroline Steel Windows

<p><b>Mission</b> Why we exist</p>	<p>To Fulfill and Inspire Dreams</p> <p>To fulfill and inspire our clients' dreams, with the elegance of our products, while inspiring our Team members to fulfill their dreams</p>
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## Core Values

We work by these values and use them as a guide to grow into on an individual level and organizational level

	Core Value	Core Behavior	Aspirational Behavior
1	<b><u>Delivering integrity</u></b>	<u>Do what is Right</u>	<ul style="list-style-type: none"> <li>A. Establish Trust by ensuring our actions match what we are saying</li> <li>B. Beyond reproach</li> <li>C. Be accountable for our commitments</li> <li>D. Hold each other accountable</li> </ul>
2	<b><u>Seeking understanding</u></b>	<u>Respectfully seek to understand and be understood</u>	<ul style="list-style-type: none"> <li>A. Listen to understand not to react</li> <li>B. Take the time to understand the needs and perspectives of all levels</li> <li>C. Learn how you can help others</li> <li>D. Understand our role and job description</li> </ul>
3	<b><u>Leading with passion</u></b>	<u>Leading by Example</u>	<ul style="list-style-type: none"> <li>A. Take actions on what is important</li> <li>B. Believe in what we do</li> <li>C. Resiliently Pressing through challenges</li> <li>D. Passion for our mission statement</li> </ul>
4	<b><u>Inspiring dreams</u></b>	<u>Caring for one another</u>	<ul style="list-style-type: none"> <li>A. Helping the needy and the less privileged</li> <li>B. Motivate others with a positive attitude</li> <li>C. Develop self &amp; others</li> <li>D. Serving each other with positivity</li> </ul>
5	<b><u>Growing in greatness</u></b>	<u>Humility along with seeking Continuous improvement</u>	<ul style="list-style-type: none"> <li>A. Hunger to grow knowledge, skills and abilities</li> <li>B. Building our character</li> <li>C. Growing to our potential</li> <li>D. Learning every day</li> </ul>

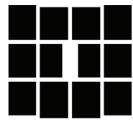
Oneself

Co-workers

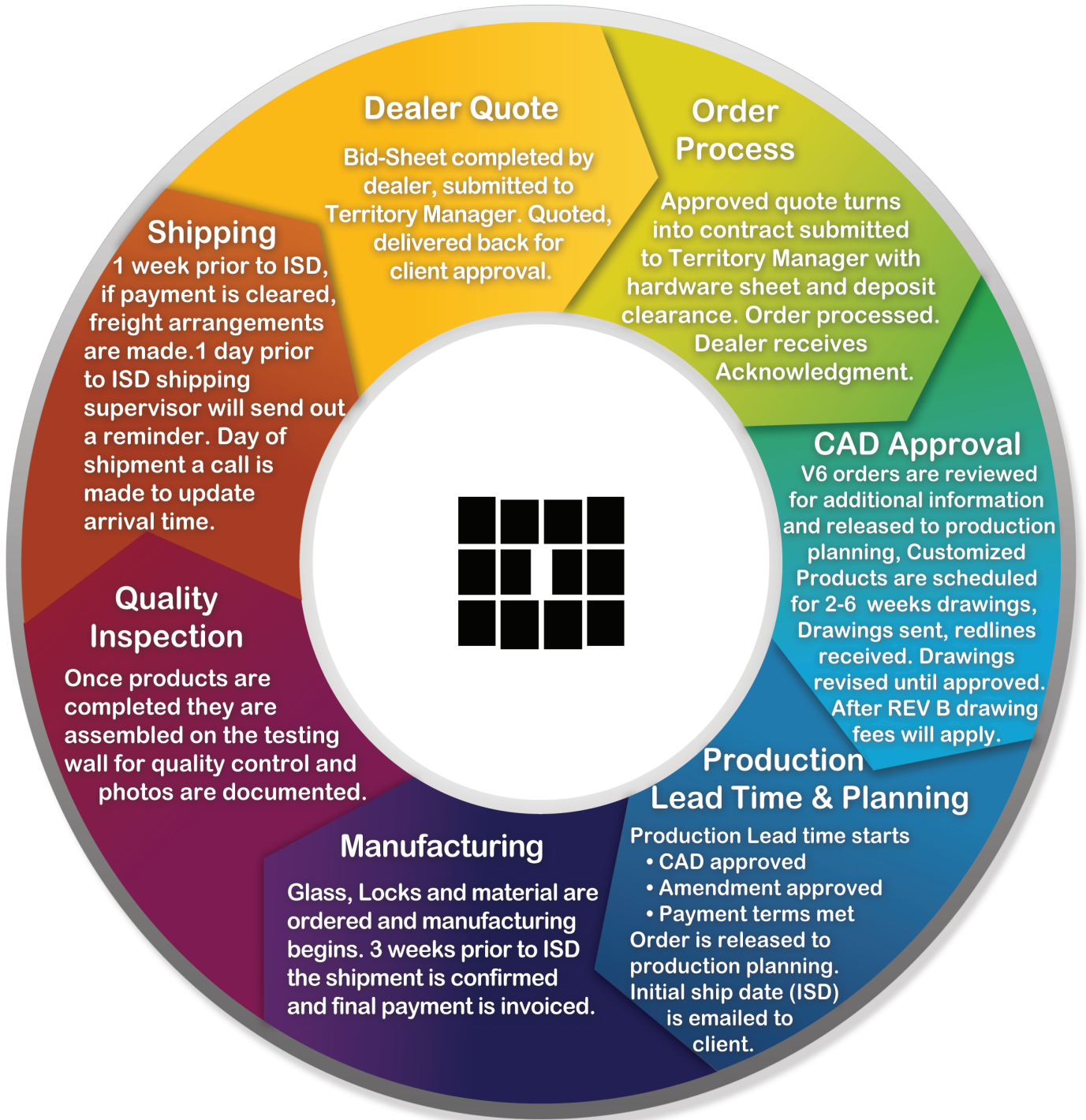
Company

Community

Family



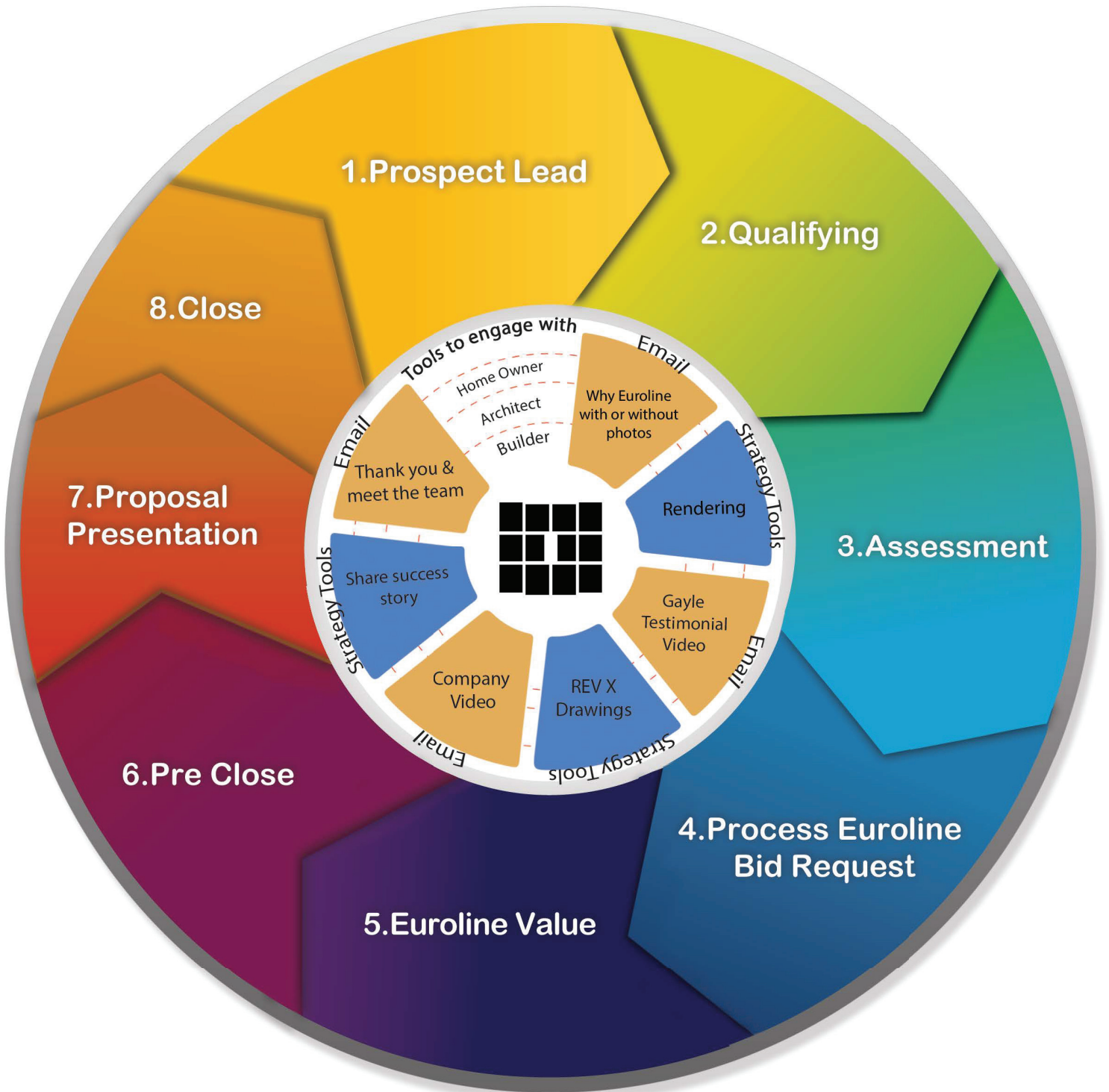
# The Proven EOS Order Process



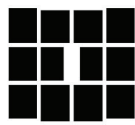
***To Fulfill and Inspire Dreams.***

# EOS Sales Process

8 Proven Steps to Selling Luxury Windows & Doors



***To Fulfill and Inspire Dreams.***



# EOS Sales Process

## 1. Prospect Lead

- Gather details scope / size
- Size of the house, address
- Vision / goal of project
- Where they are in building process
- Why Euroline
- Why Luxury Home

Tools to Engage with  
Home Owner  
Architect  
Builder

## 2. Qualifying

- Lead time workable?
- Is home value > \$4million
  - Existing home per Zillow
  - New Construction/ Major remodel
- Value = total sq ft x \$1,000/ sq ft  
+ lot Value per Zillow

**IF YES**

- 1 Explain the process ahead
- 2 Schedule Assessment
- 3 Get contact info of
  - Home Owner
  - Architect
  - Builder

2B. Strategy Tool

Email: Why Euroline & With or Without Euroline

## 3. Assessment

- Job site / Plan take off
- Euroline recommendations & design layout
- Present product options (Series, bead, locks & finish)
- Get project rendering / elevations to submit
- Connect with other buying influence
  - Home Owner
  - Architect
  - Builder
- Start coordinating meeting for step #5

3B. Strategy Tool

Rendering

# EOS Sales Process

## 4. Process Euroline Bid Request

- Email Bid sheet to Euroline
- Talk to TSM about project & strategize on visit to factory & job site tour
- Dealer receives quote package

4B. Strategy Tool

Email: Gayle Testimonial Video

## 5. Present Euroline Value

Build value with Homeowner, Architect, Builder with the 2 step process

- Step 1: In-person or Remote Euroline Factory tour
- Step 2: In-person or Remote Review & Redline REV X Drawing

Optional: Showroom Visit/Euroline Home Tour  
Under pressure for pricing (present lump sum budget)

5B. Strategy Tool

Rev X Drawings

## 6. Pre Close

- Assess client confidence in Euroline
- Assess objections
- What else do they need to decide
- Share Why Euroline

6B. Strategy Tool

Email: Company Video

# EOS Sales Process

## 7. Proposal Presentation

Present contract

- CAD lead time
- Production lead time
- Deposit
- Options
- Total

7B. Strategy Tool

Share success story

## 8. Close

- Follow up to Close  
or
- Request to meet to cover any objections

8B. Strategy Tool

Email : Thank you & Meet the team

### Strategy tools to supplement the core steps

- 2B. Email: Why Euroline & With or Without Euroline
- 3B. Rendering
- 4B. Email: Gayle Testimonial Video
- 5B. Rev X Drawings
- 6B. Email: Company Video
- 7B. Share success story
- 8B. Email: Thank you & Meet the team



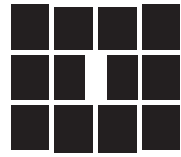
# EOS Sales Process

8 Proven Steps to Selling Luxury Windows & Doors



*To Fulfill and Inspire Dreams.*

# True Steel Product Guide with Cross Sections



**EUROLINE**  
STEEL WINDOWS & DOORS

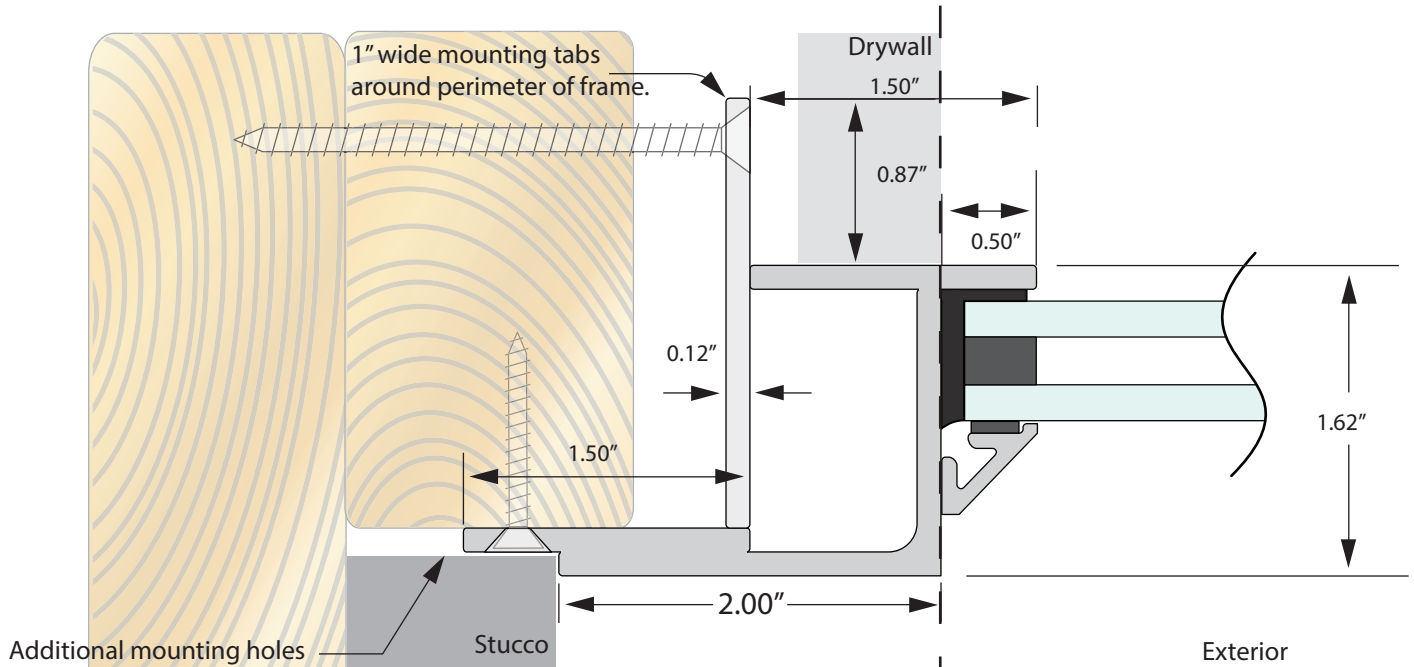


22600 Savi Ranch Pkwy.  
Yorba Linda, CA 92887  
[eurolinesteelwindows.com](http://eurolinesteelwindows.com)  
(877) 590-2741



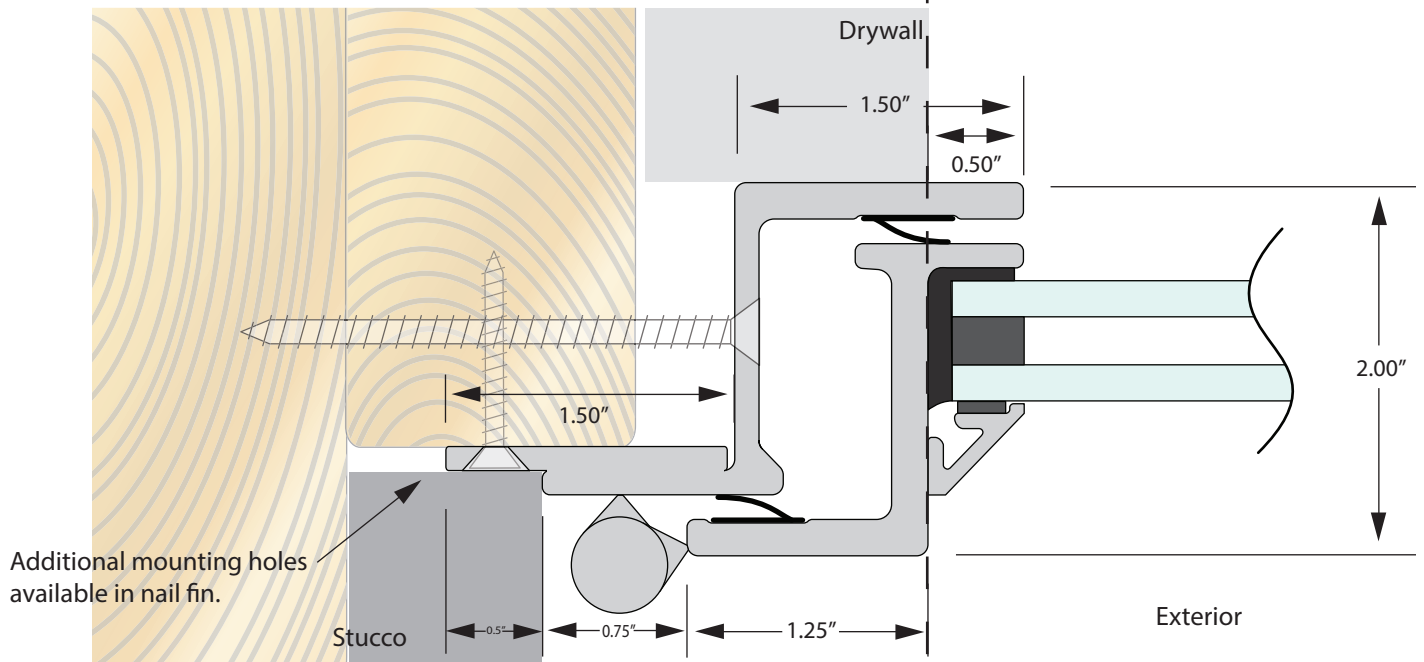
# TRUE STEEL EURO 1500

## Fixed Window with Nail Fin



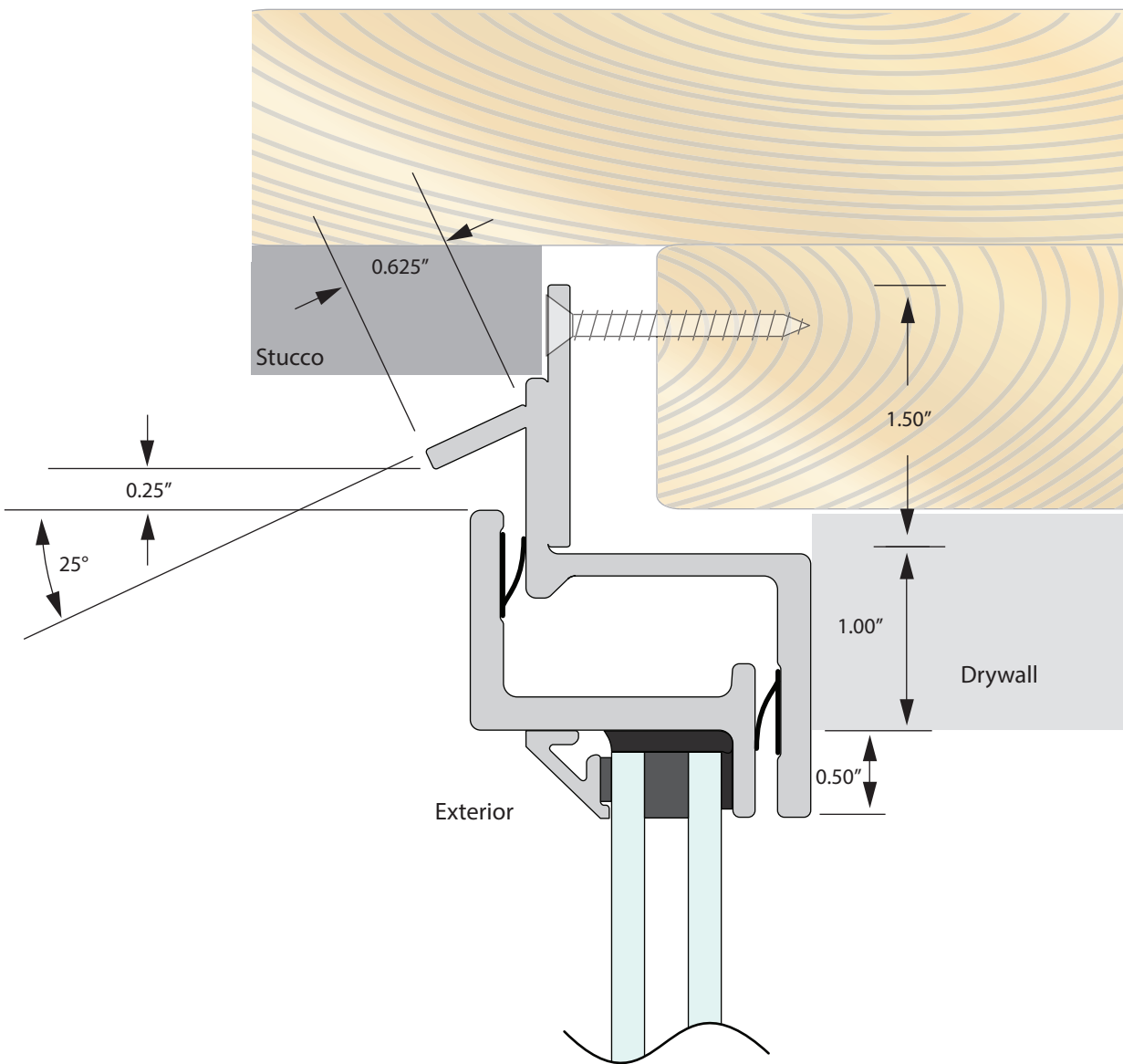
# TRUE STEEL EURO 1500

## Outswing Casement Window or Door with Nail Fin



# TRUE STEEL EURO 1500

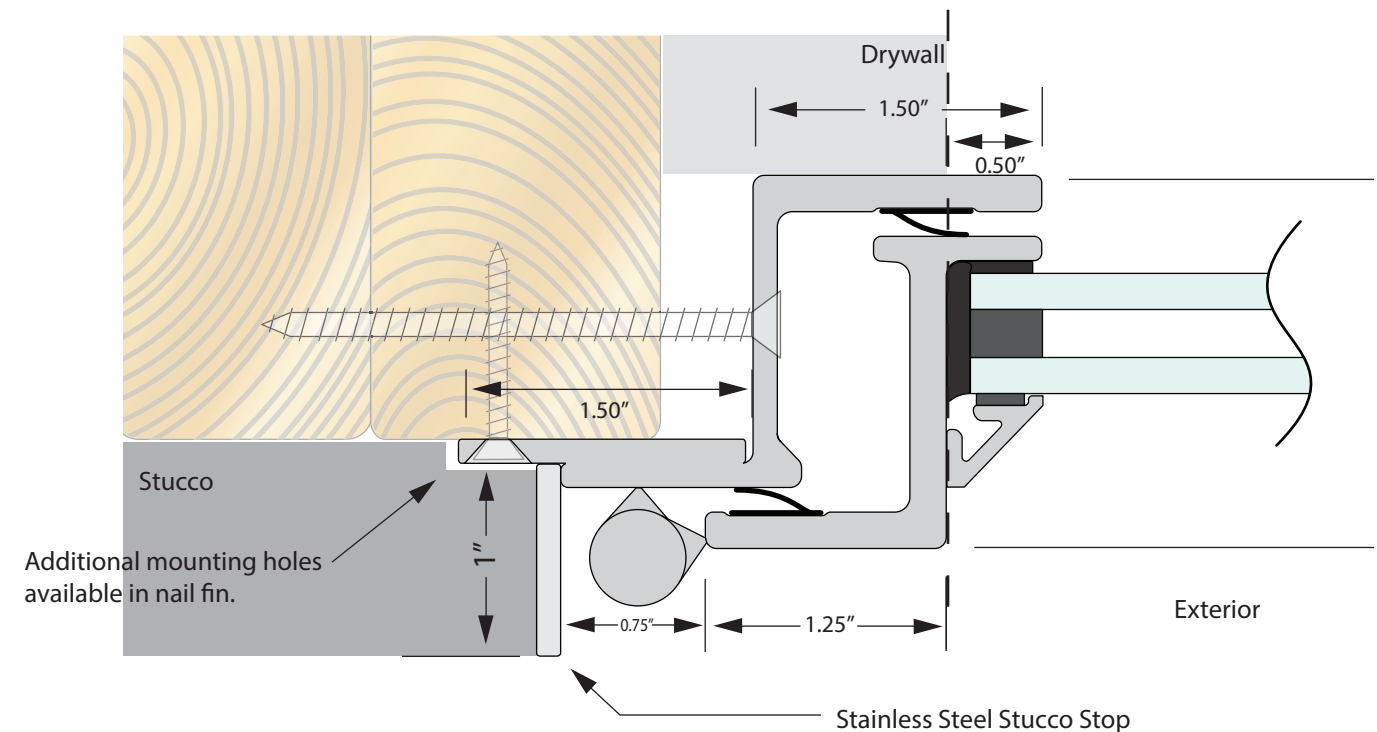
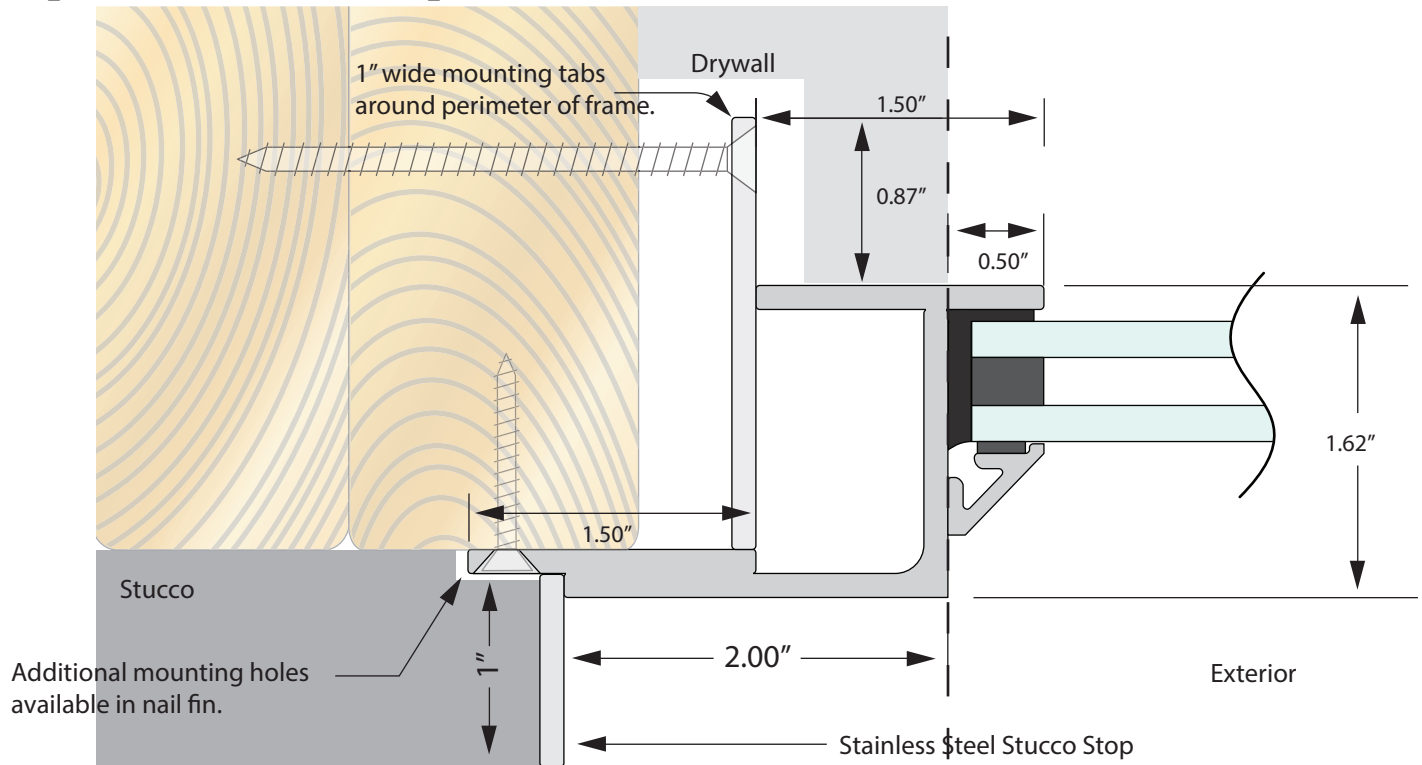
## Drip Edge on Active Units





# TRUE STEEL EURO 1500ss

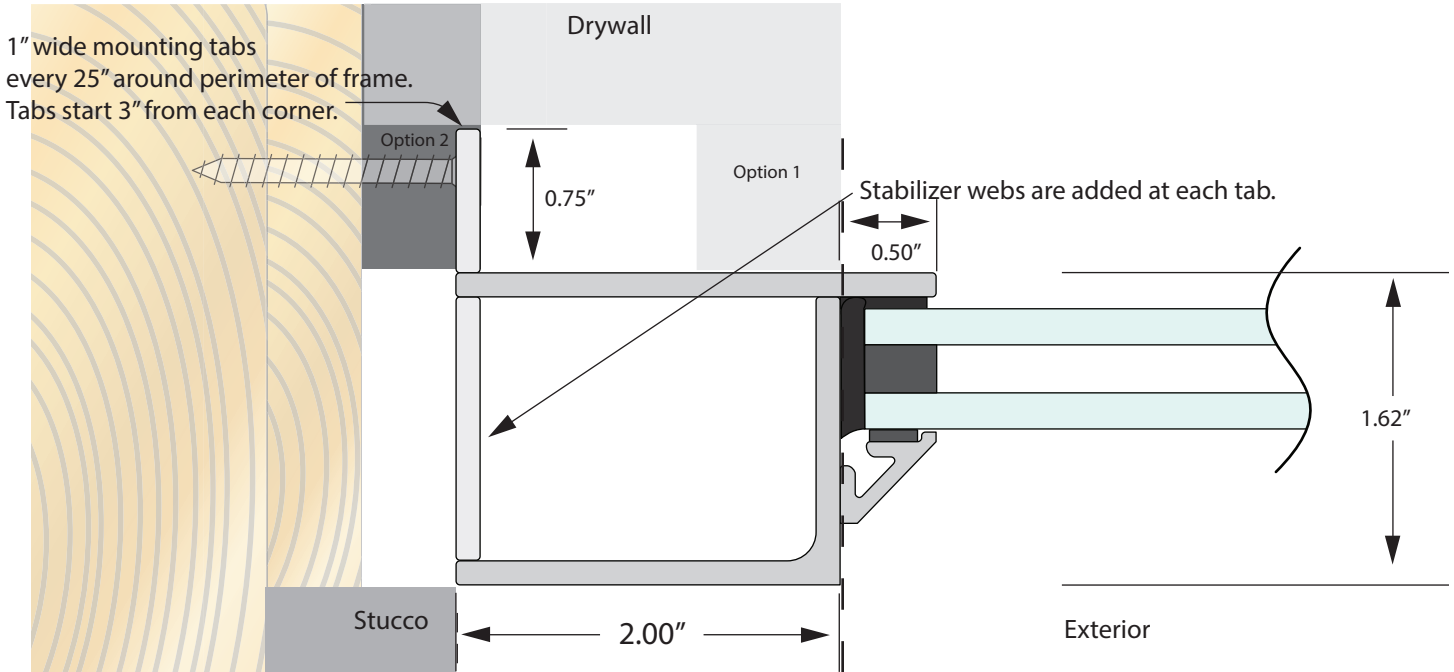
## Optional Stucco Stop with Nail Fin



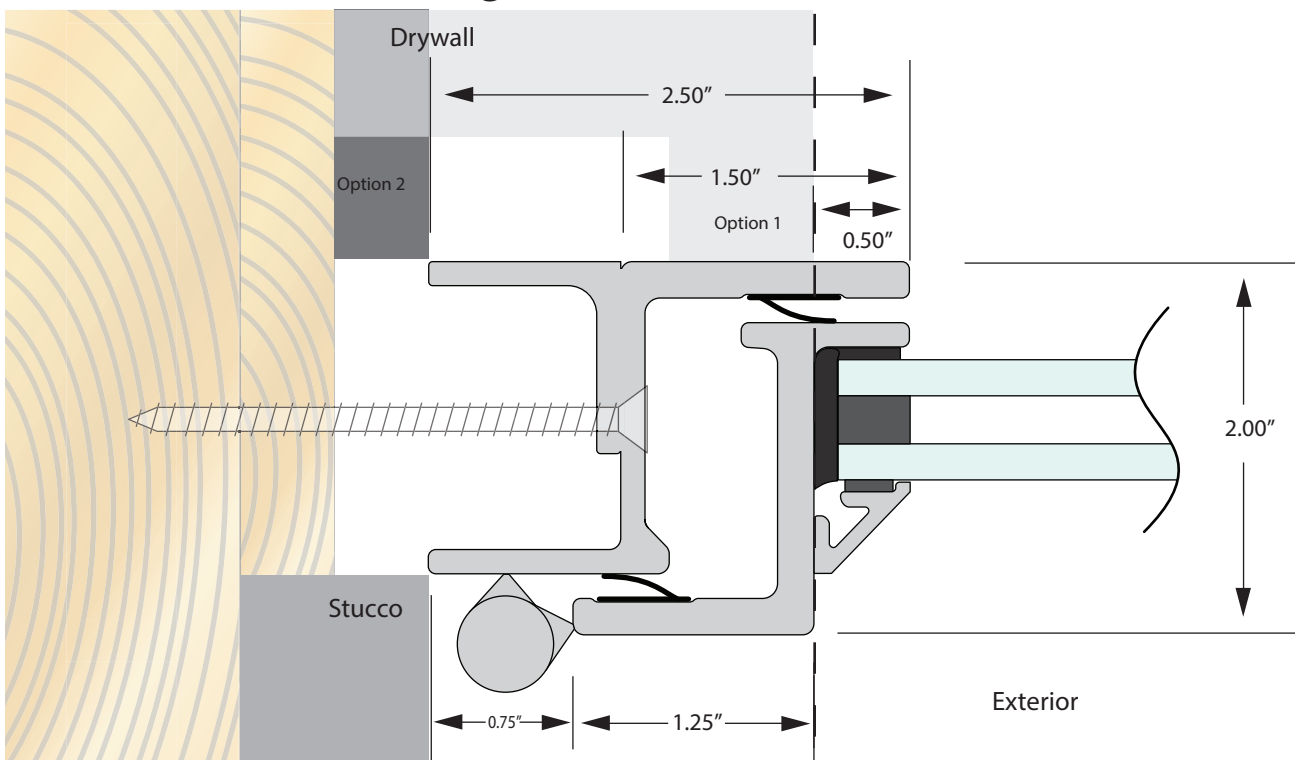


# TRUE STEEL EURO4000

## Block Frame Fixed Window



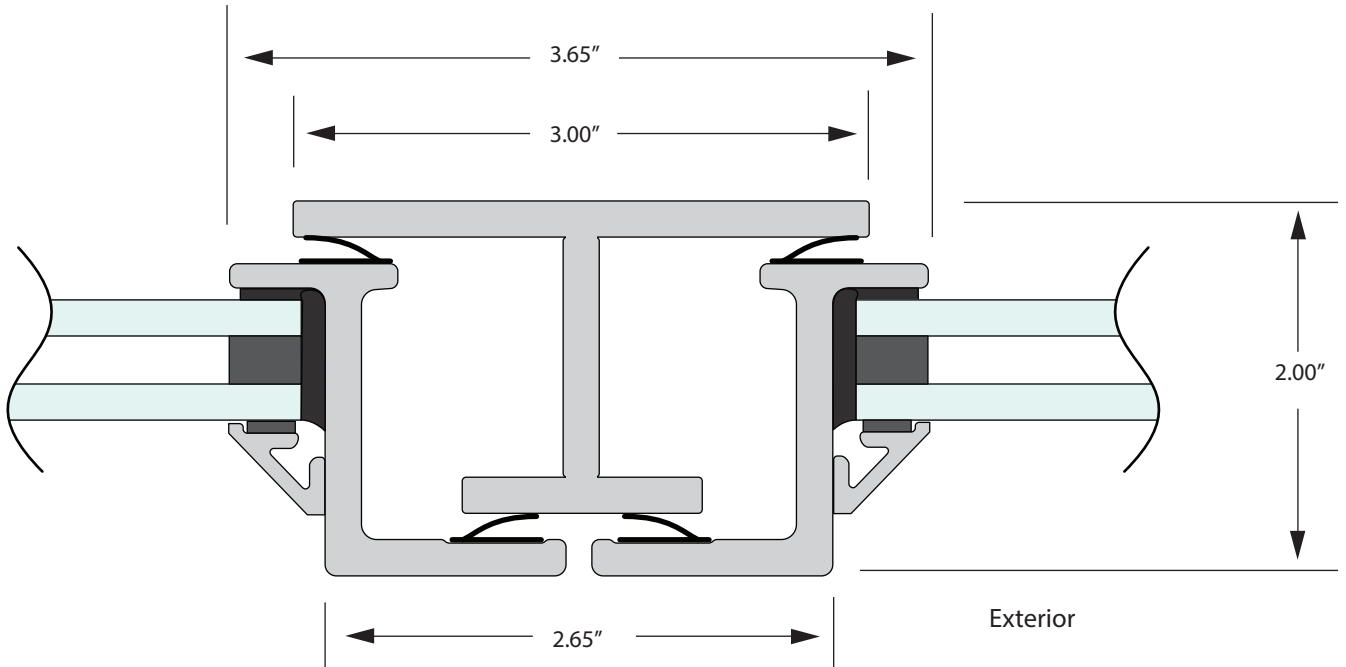
## Block Frame Outswing Casement Window or Door



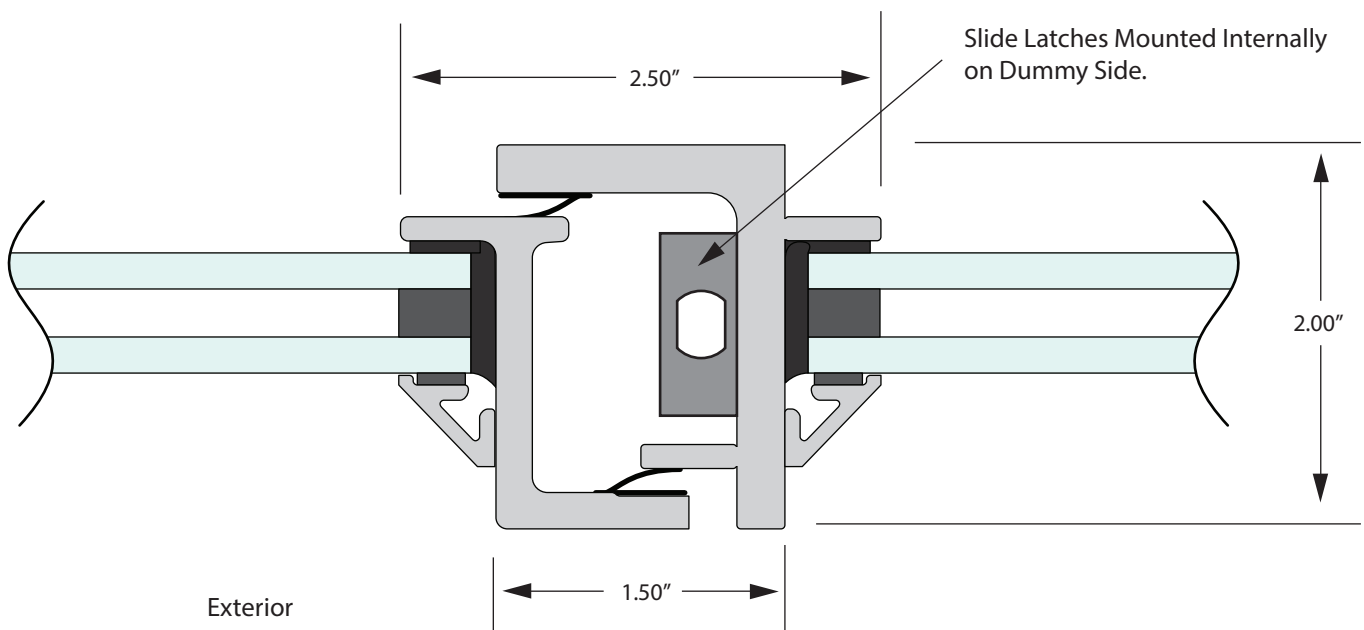


# TRUE STEEL<sub>EURO</sub>

## Outswing Twin Casement Astragal



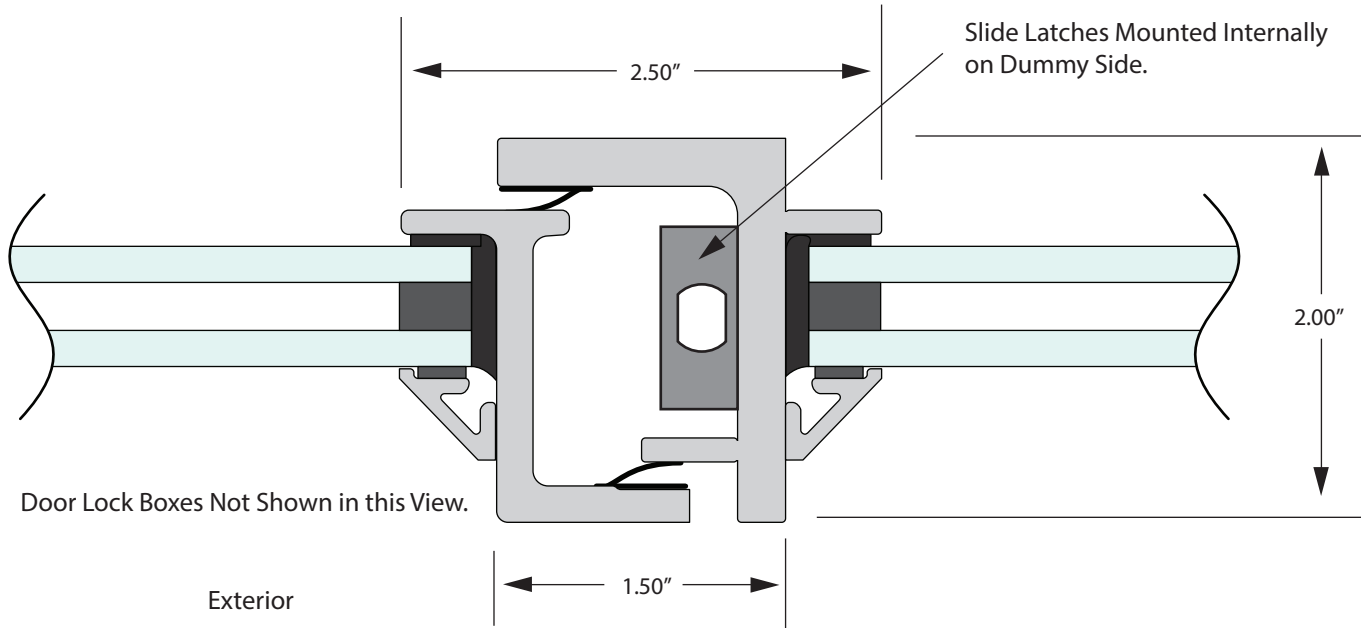
## Outswing French Casement Astragal



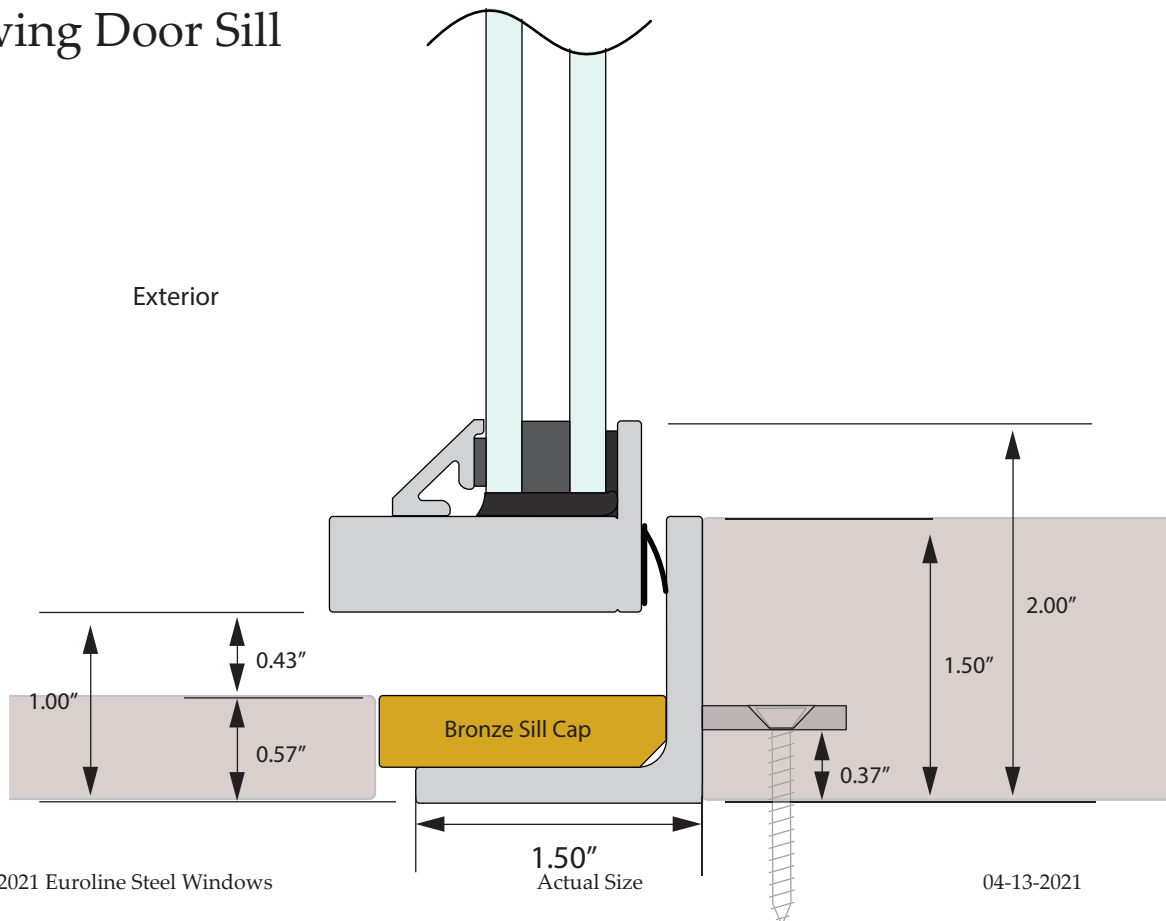


# TRUE STEEL EURO

## Outswing French Door Astragal



## Outswing Door Sill

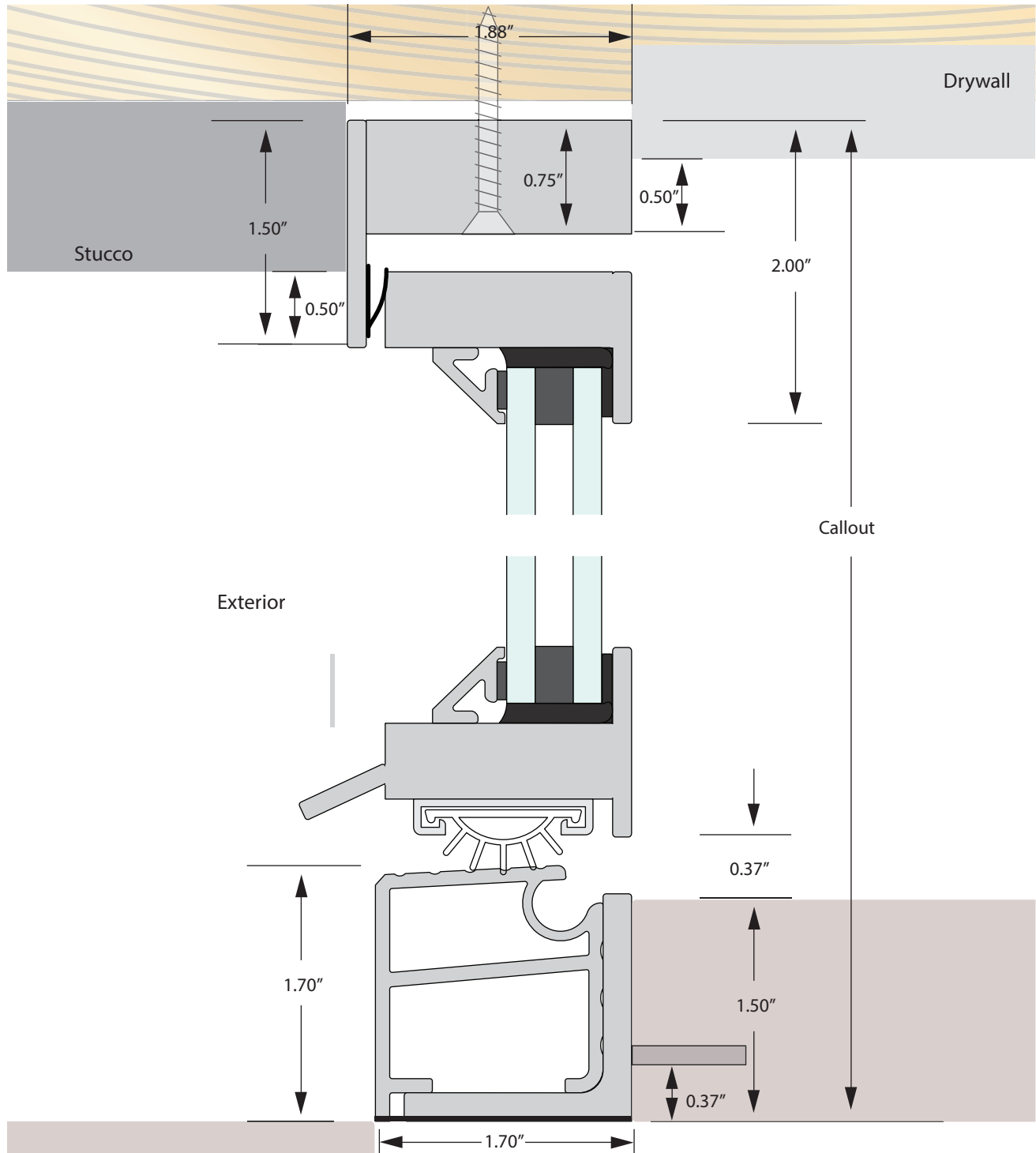






# TRUE STEEL EURO 9000

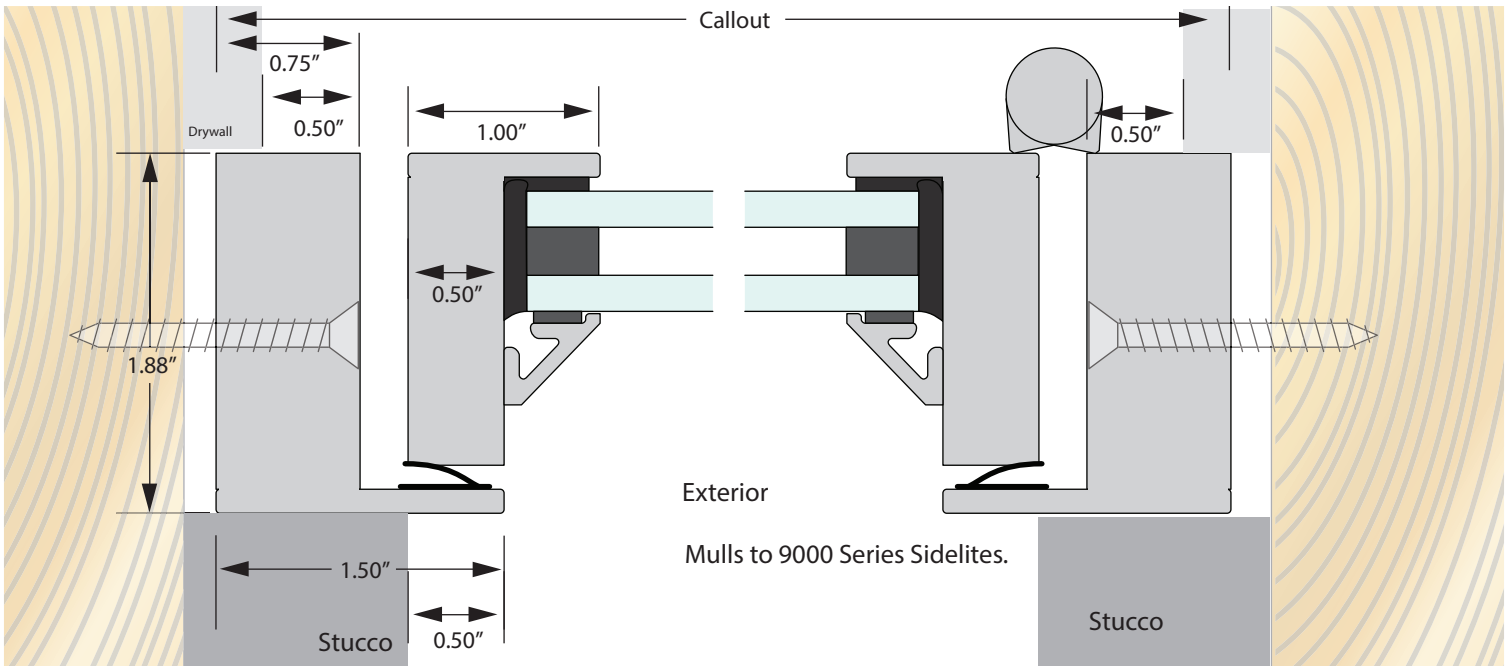
## Block Frame Inswing Door





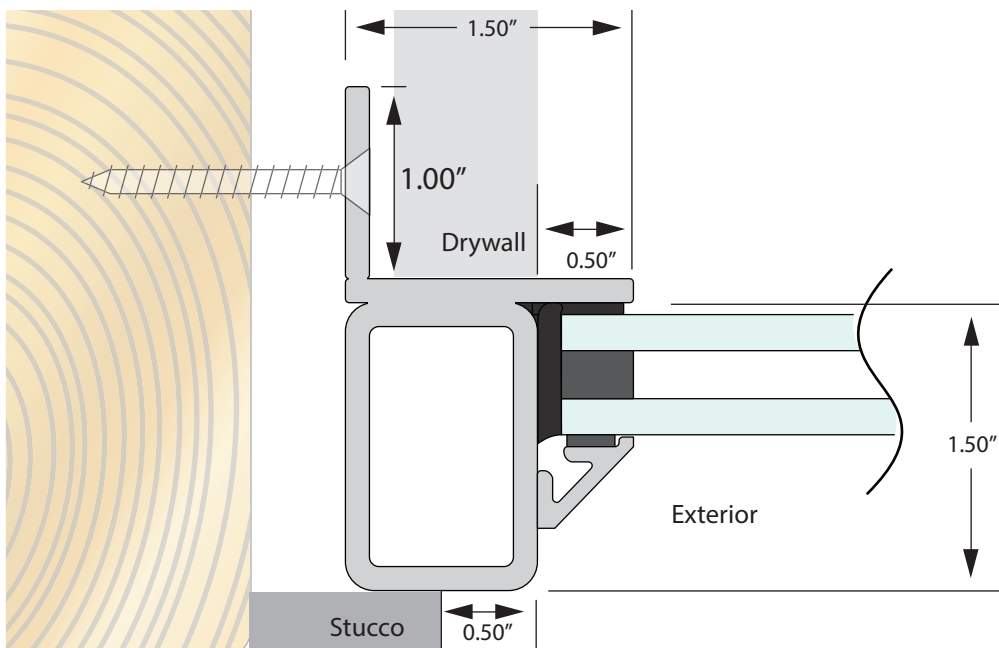
# TRUE STEEL EURO 9000

## Block Frame Inswing Door Jambs (Limited mulling options)



# TRUE STEEL EURO 9115

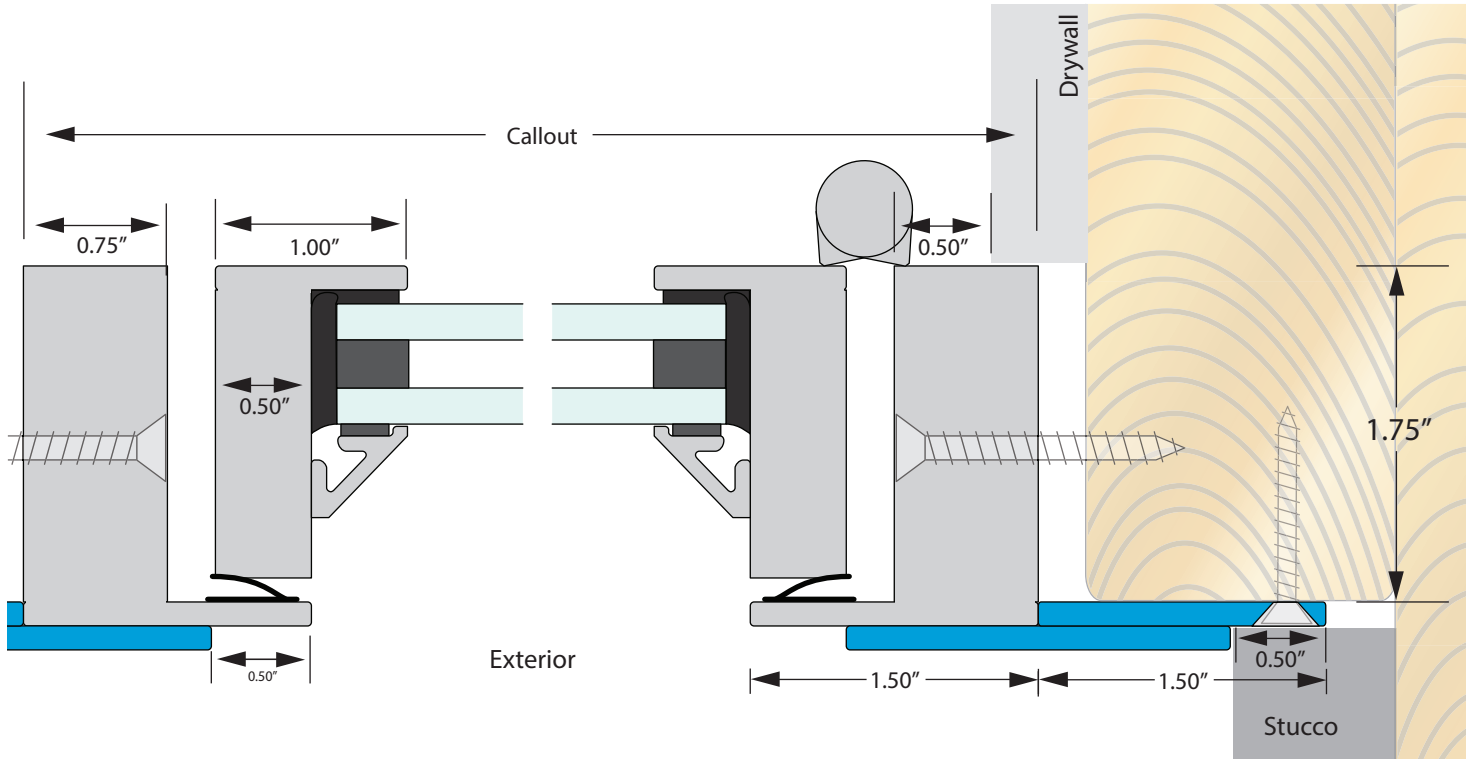
## Block Frame Fixed Window with Tube Frame - Block Fit





# TRUE STEEL EURO 9000

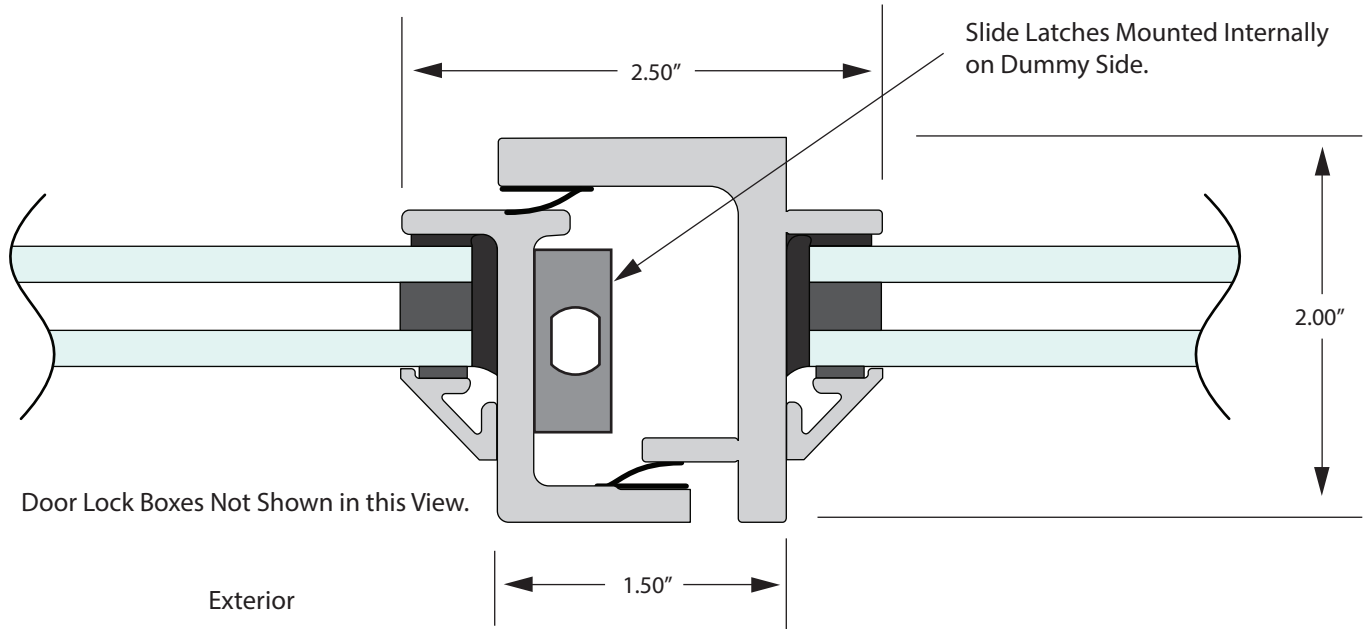
## Inswing Door Jambs with Nail Fin





# TRUE STEEL<sub>EURO</sub>

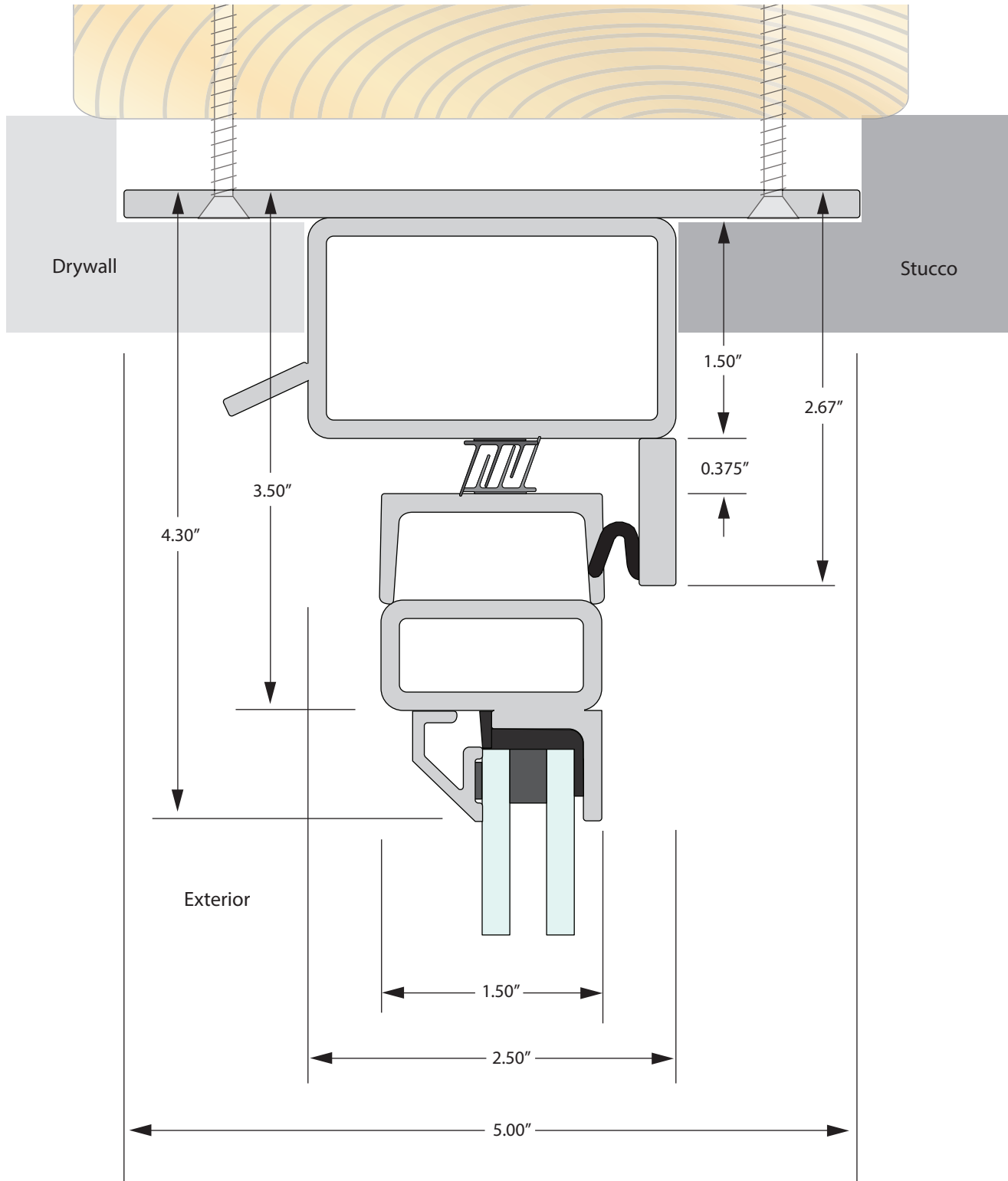
## Inswing Door French Door Astragal





# TRUE STEEL EURO PIVOT

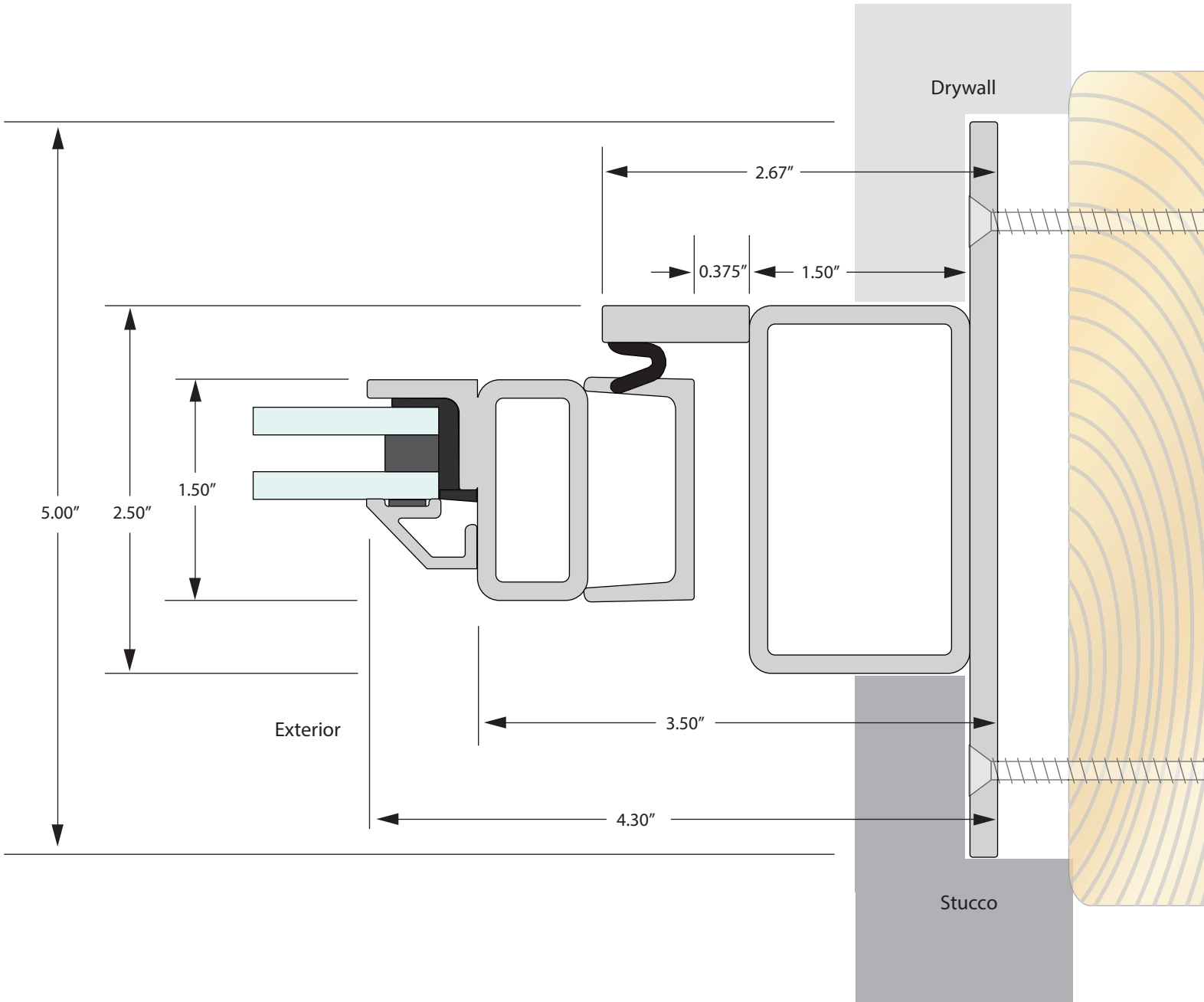
## Pivot Head Profile





# TRUE STEEL EURO PIVOT

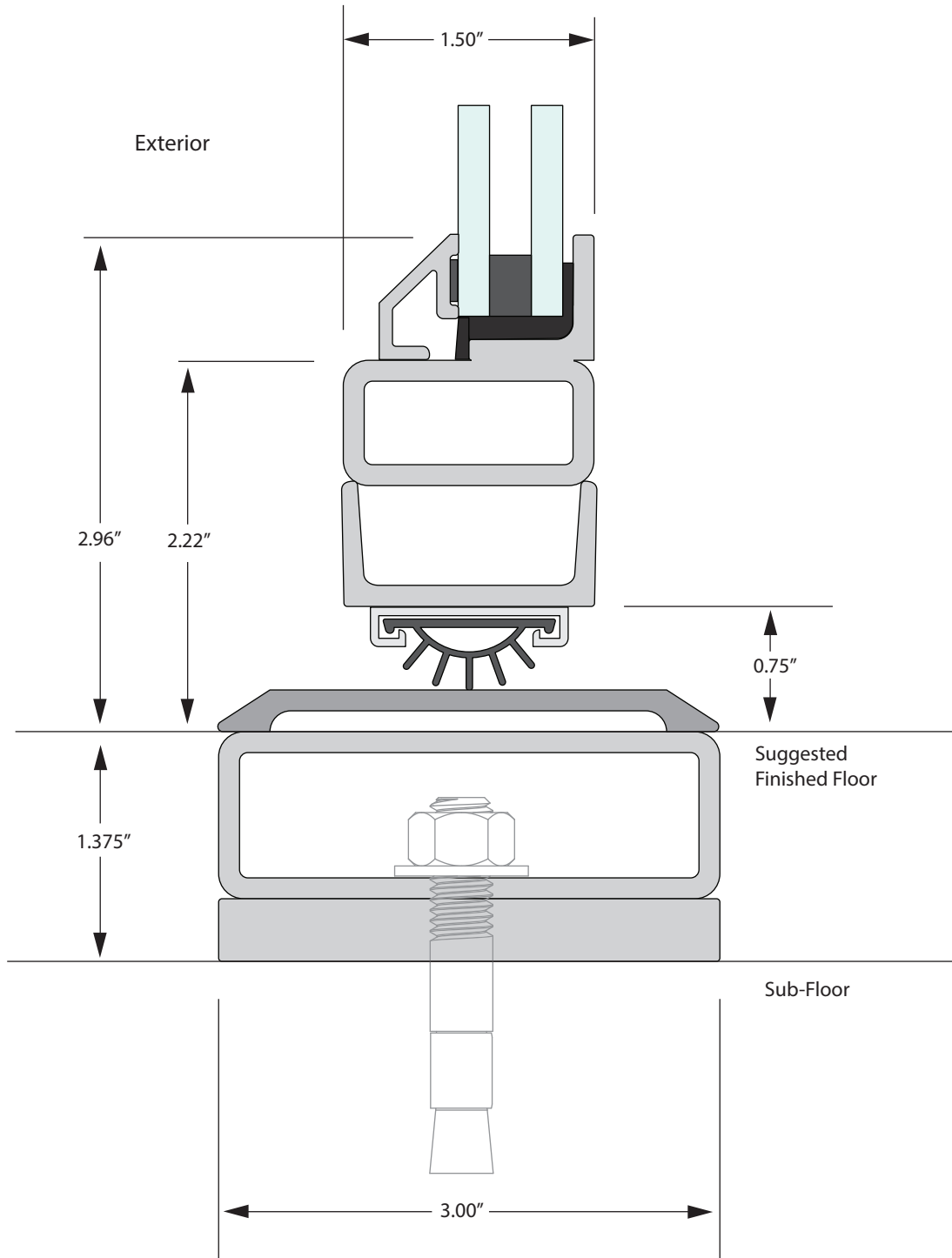
## Pivot Jamb Profile





# TRUE STEEL EURO PIVOT

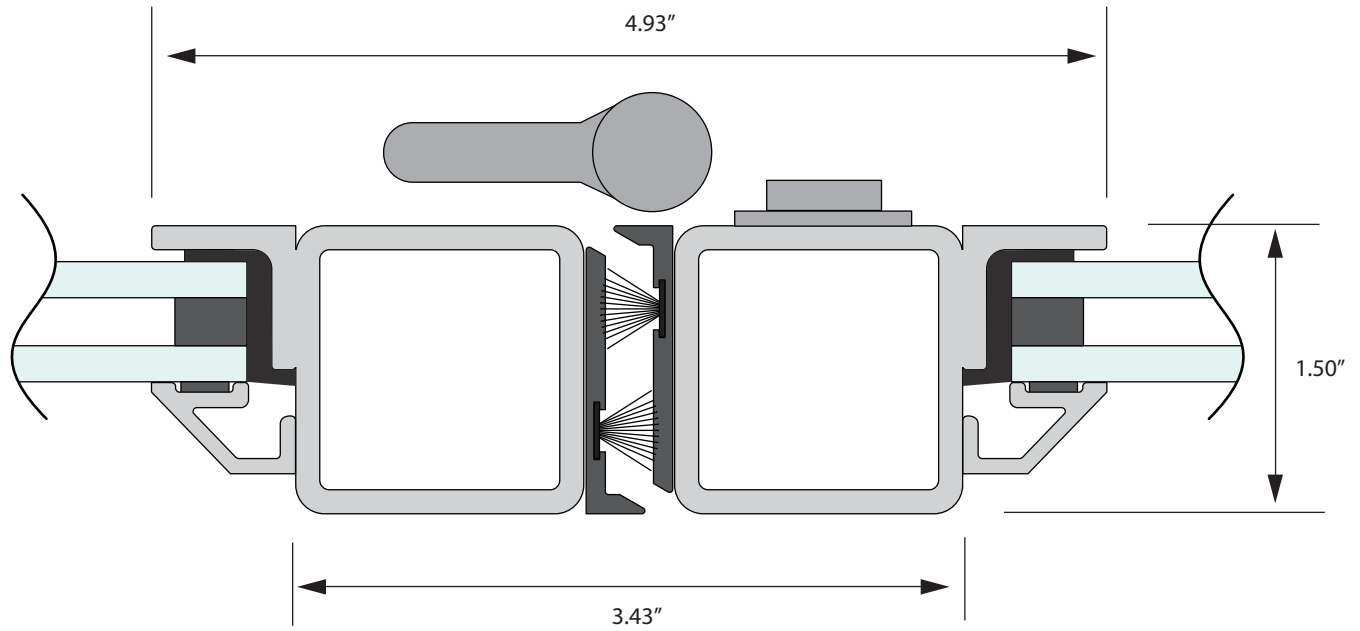
## Pivot Sill Profile





# TRUE STEEL EURO BI-FOLD

## Bifold Door to Door Cross-section

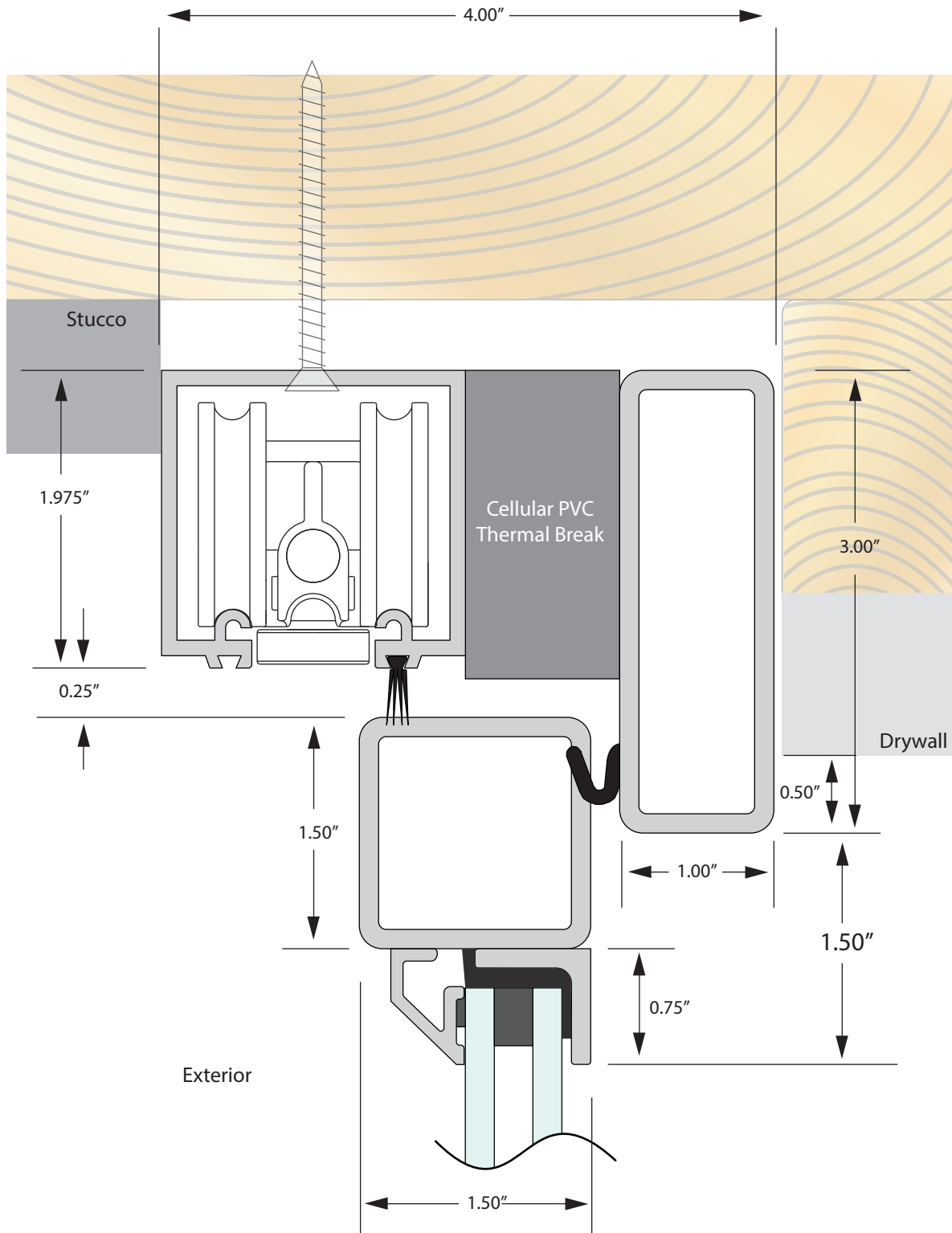






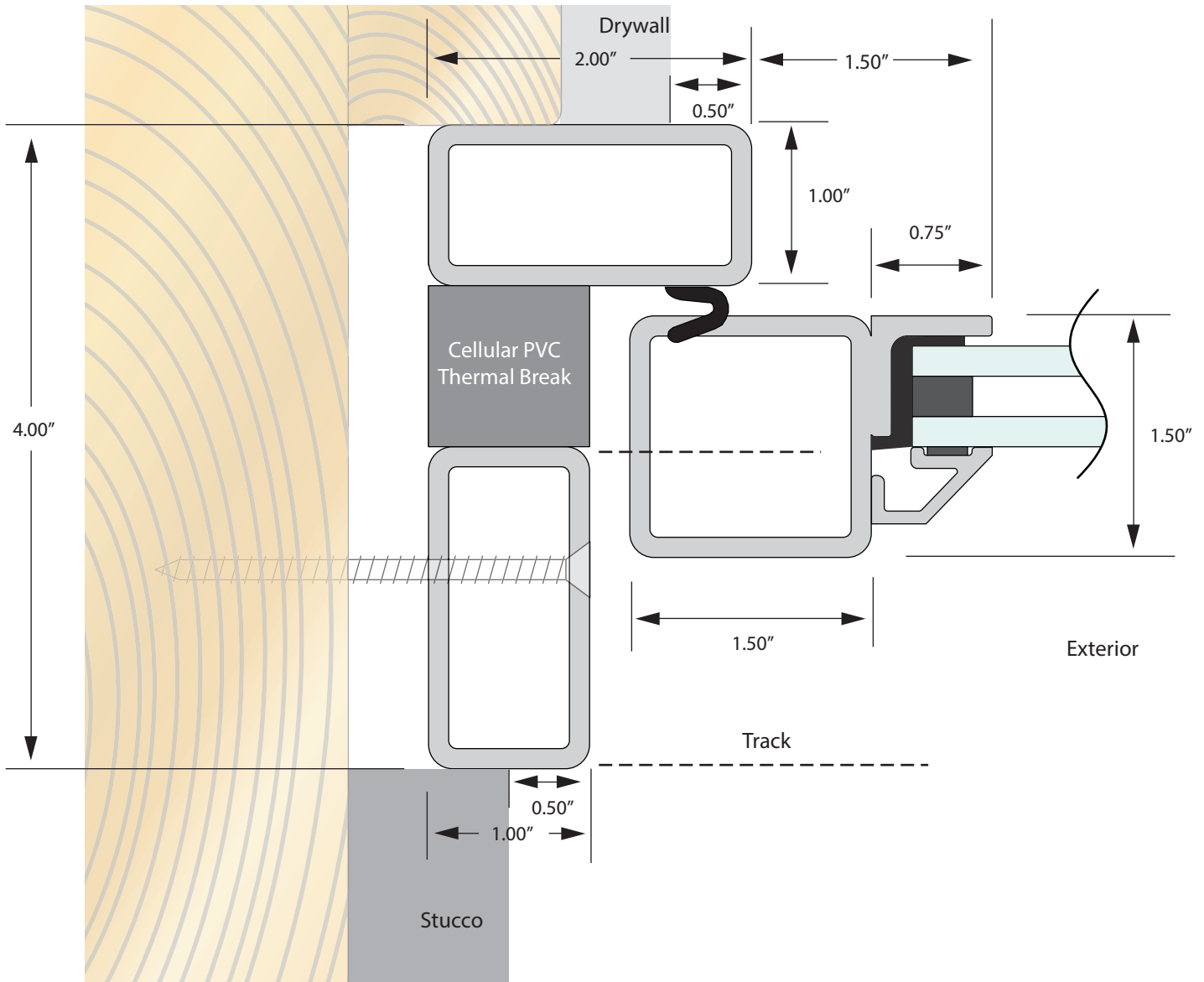
# TRUE STEEL EURO BI-FOLD

## Outswing Bifold Head Profile



# TRUE STEEL EURO BI-FOLD

## Outswing Bifold Jamb Profile

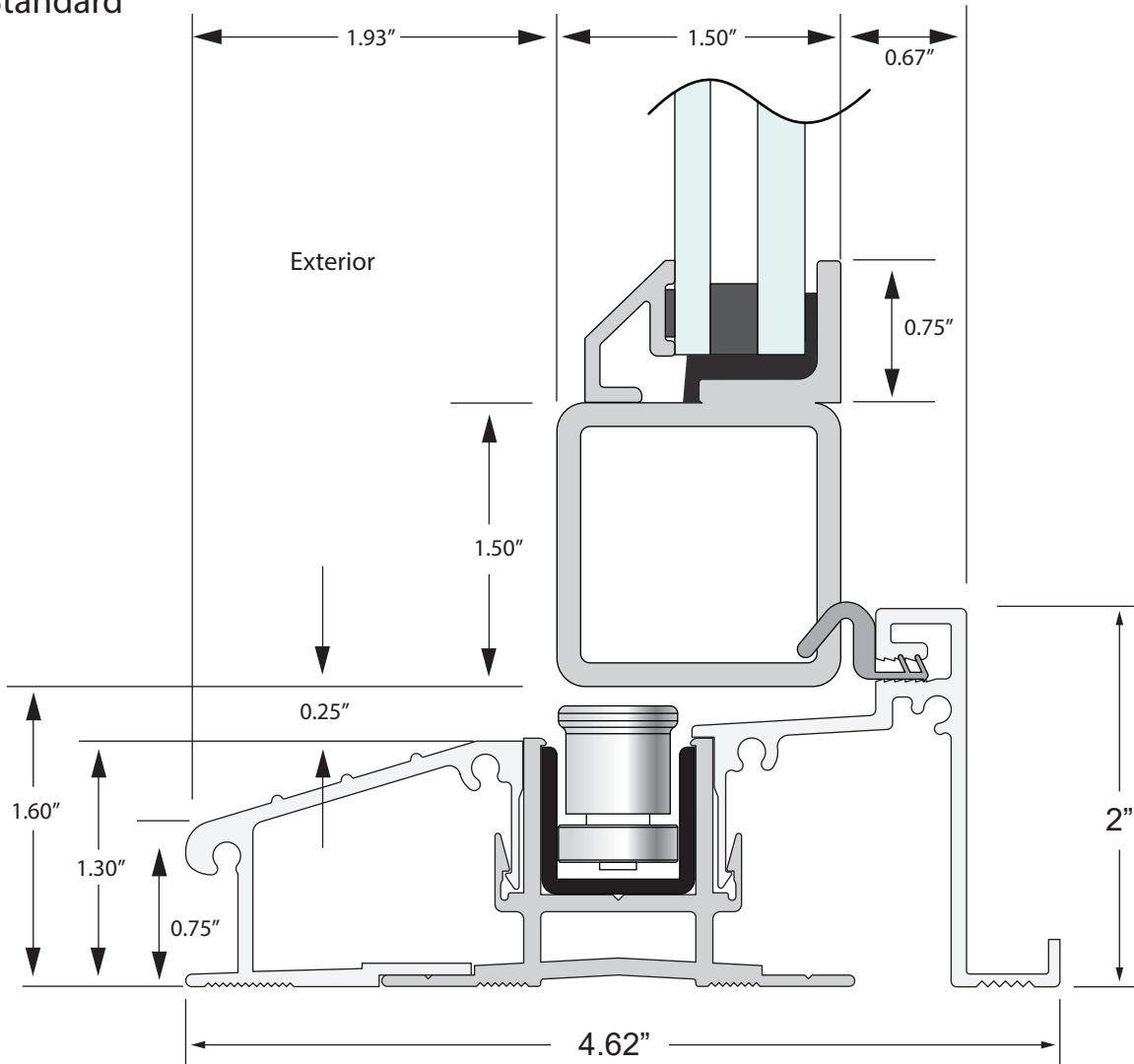




# TRUE STEEL EURO BI-FOLD

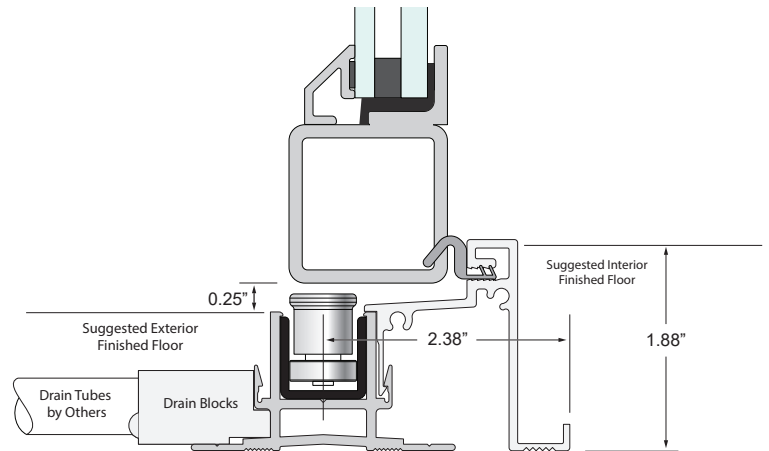
## Standard Outswing Bifold Threshold

Standard

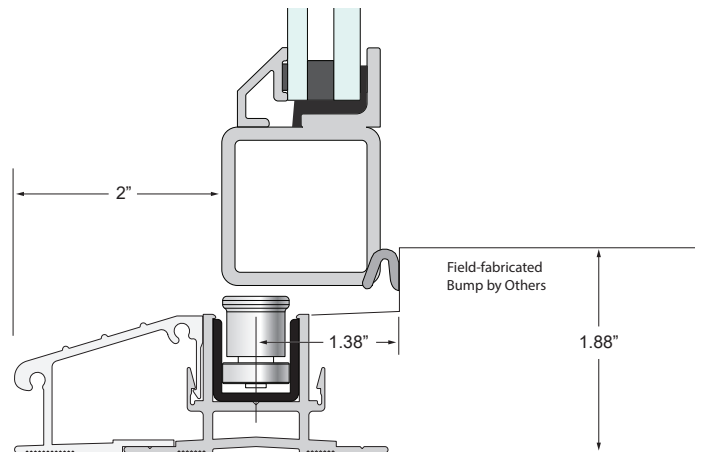


# TRUE STEEL EURO BI-FOLD

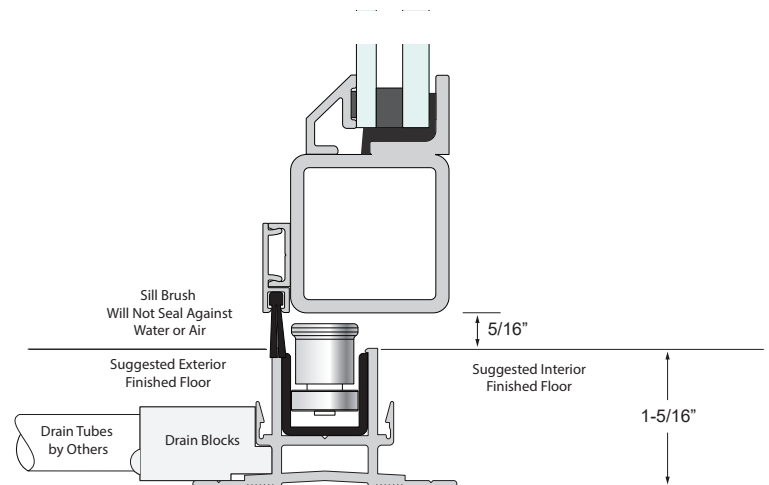
Option A  
U-Channel with Stop Seal



Option B  
U-Channel with External Ramp



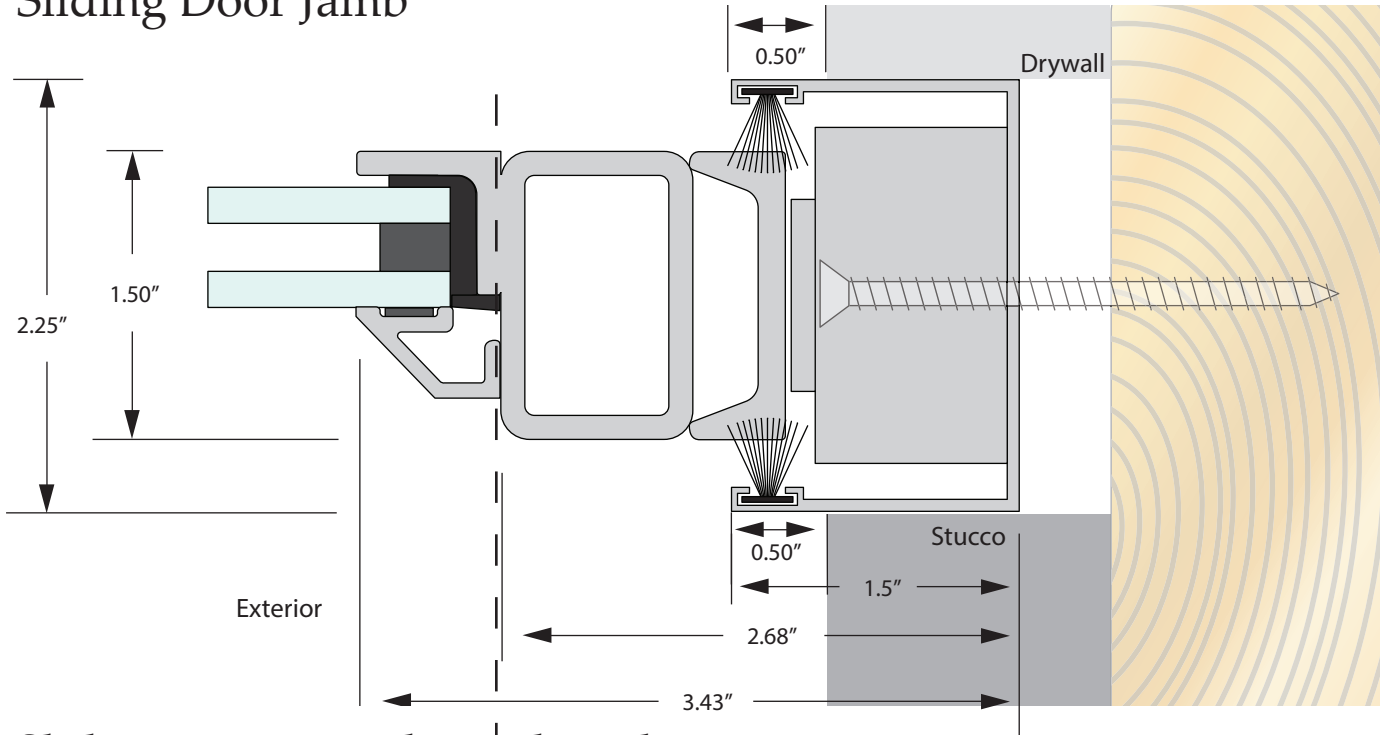
Option C  
U-Channel Flush



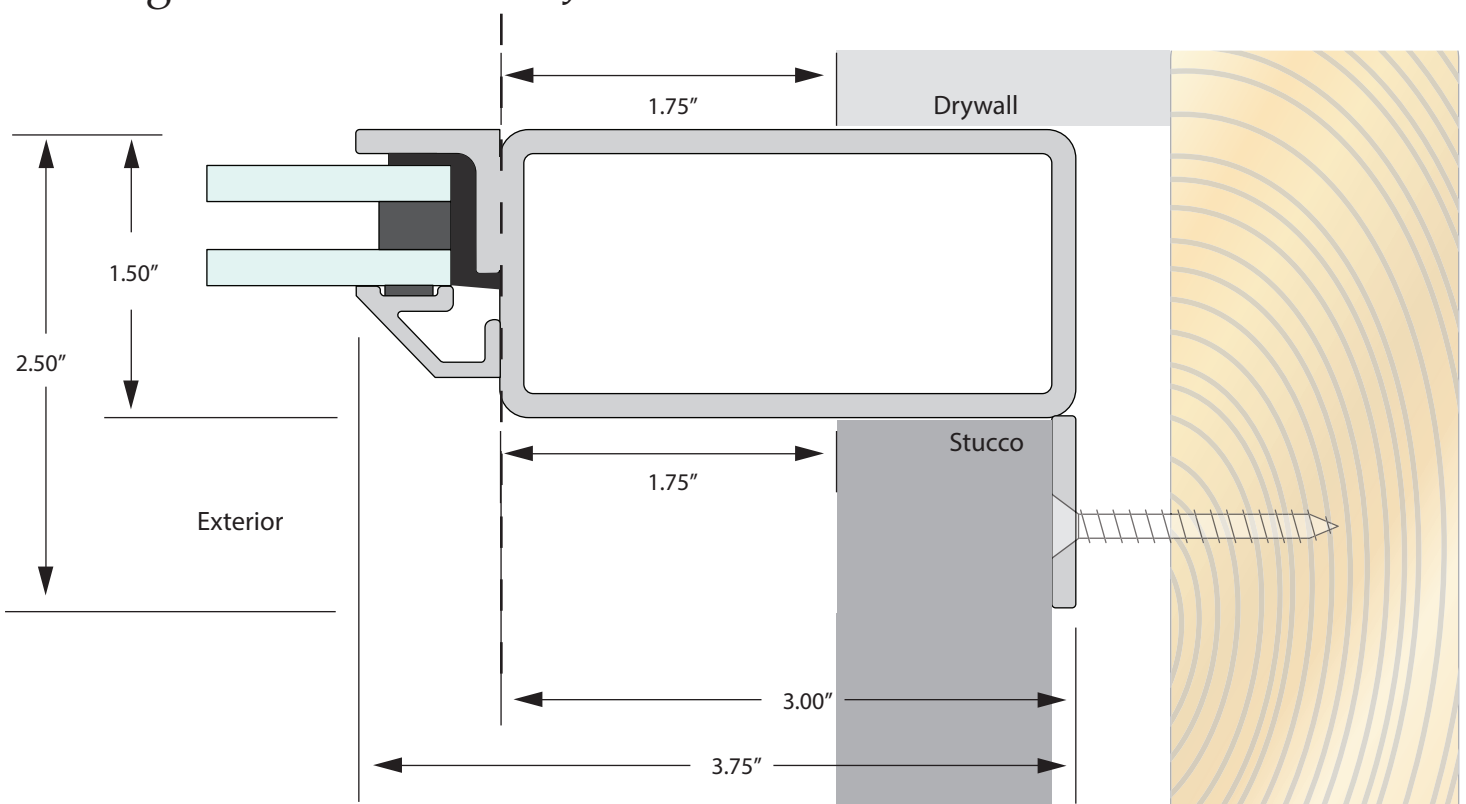


# TRUE STEEL EURO SLIDE

## Sliding Door Jamb

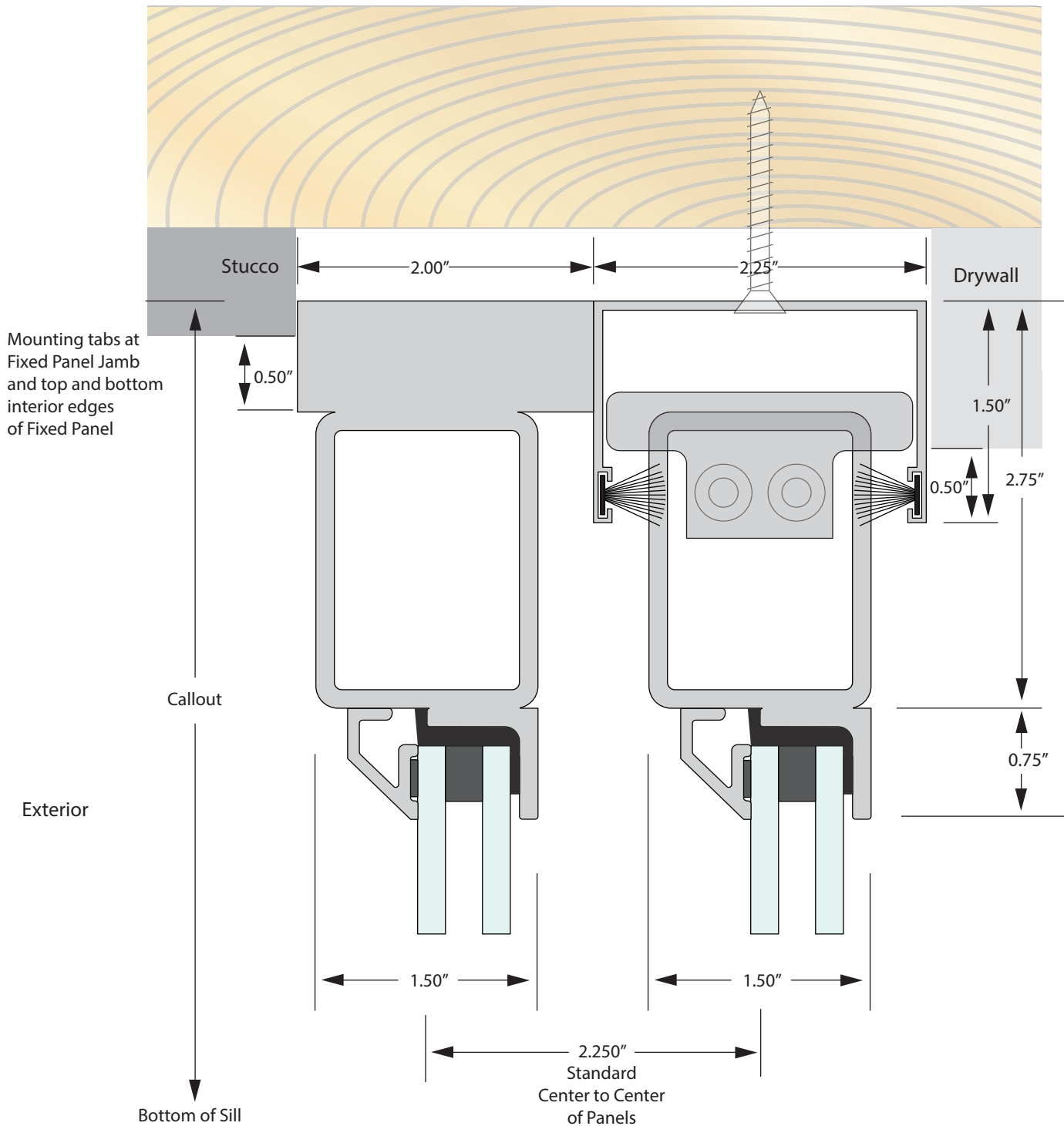


## Sliding Door Fixed Panel Jamb



# TRUE STEEL EURO SLIDE

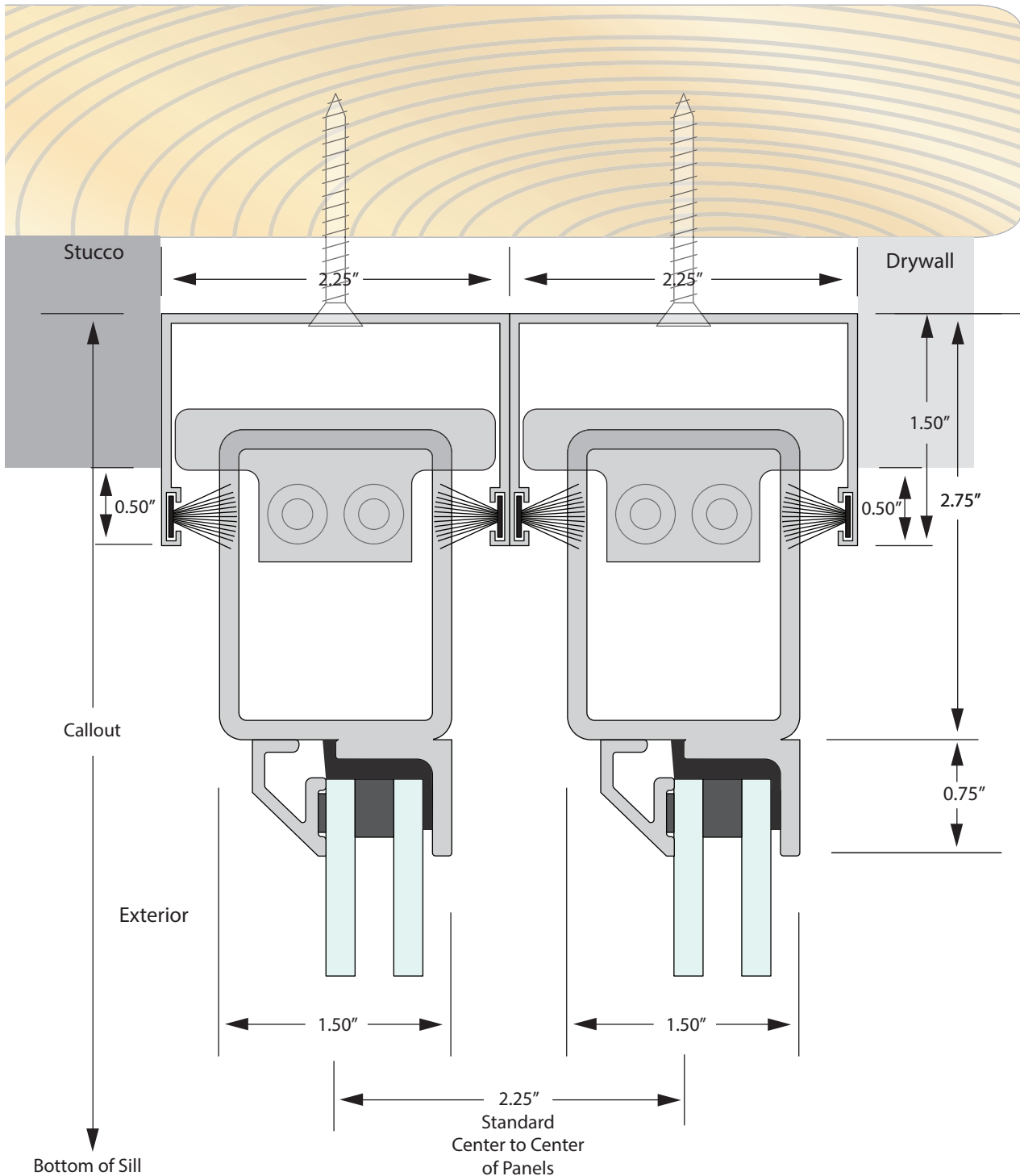
## Sliding Door Head with Fixed Panel





# TRUE STEEL EURO SLIDE

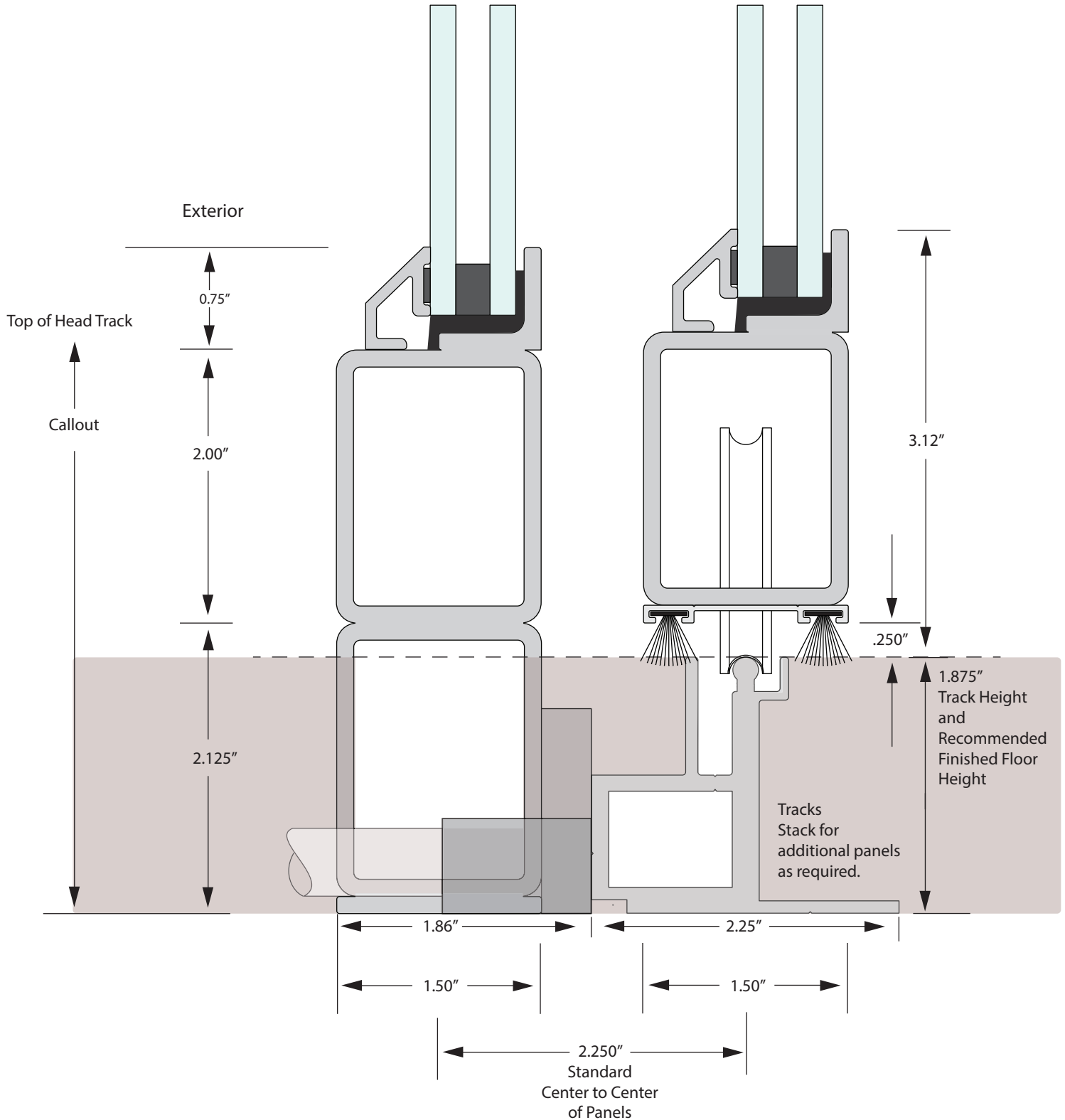
## Sliding Door Head - Pocketing Panels





# TRUE STEEL EURO SLIDE

SLD-BT-D-LP – Slider, Buried Track, Draining, Low Profile

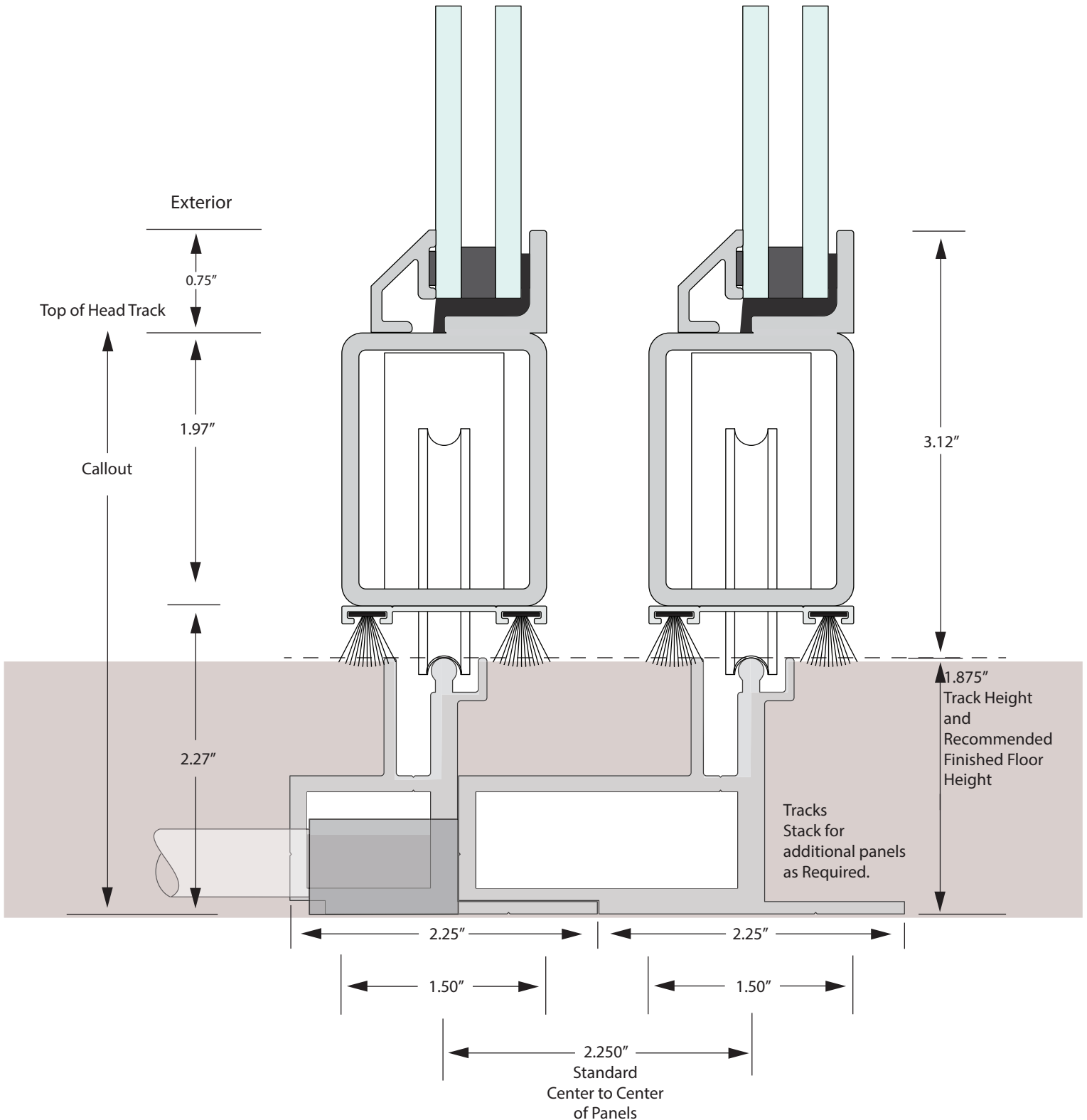






# TRUE STEEL EURO SLIDE

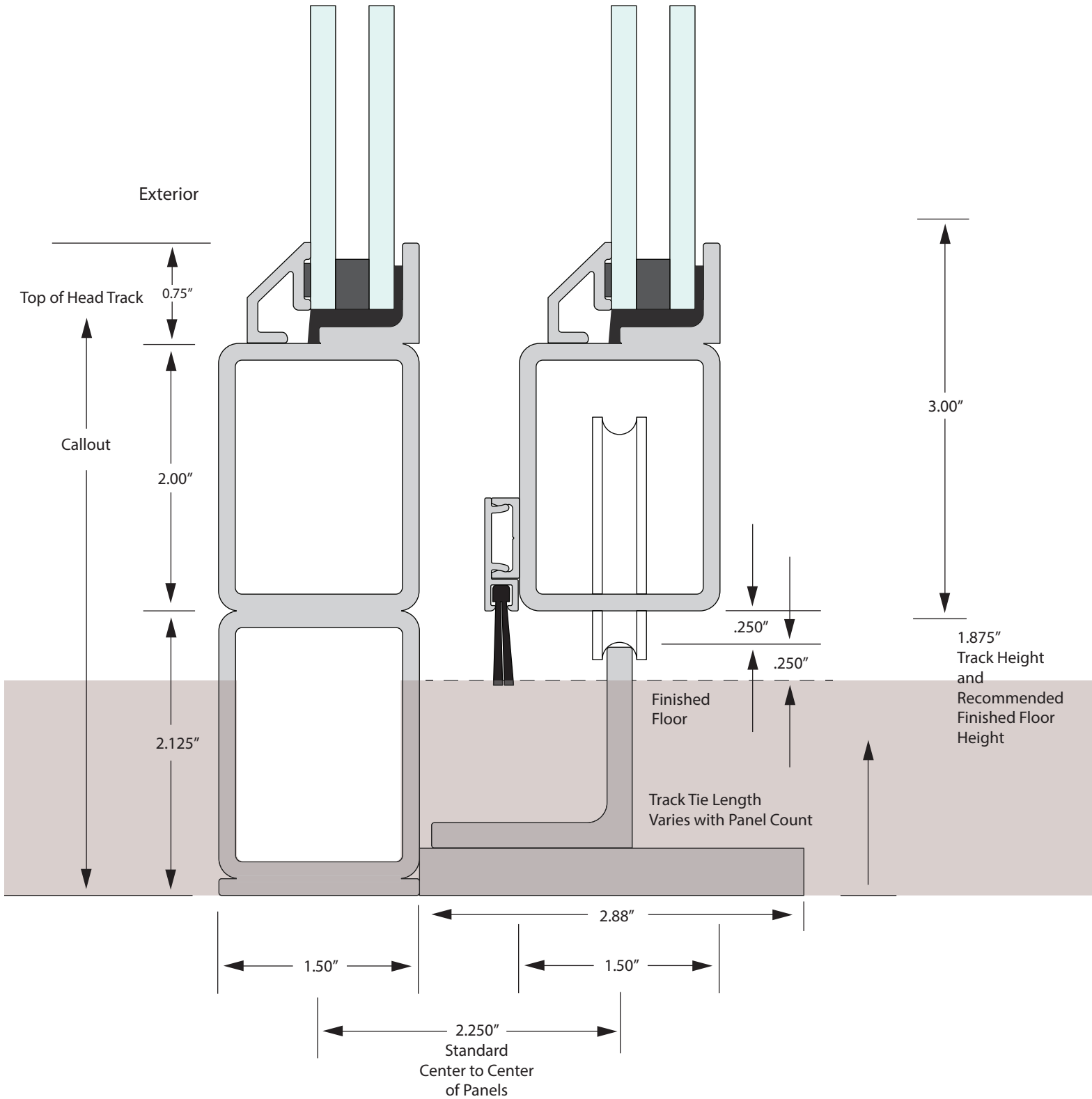
SLD-BT-D -P-LP – Slider, Buried Track, Draining, Pocketing, Low Profile





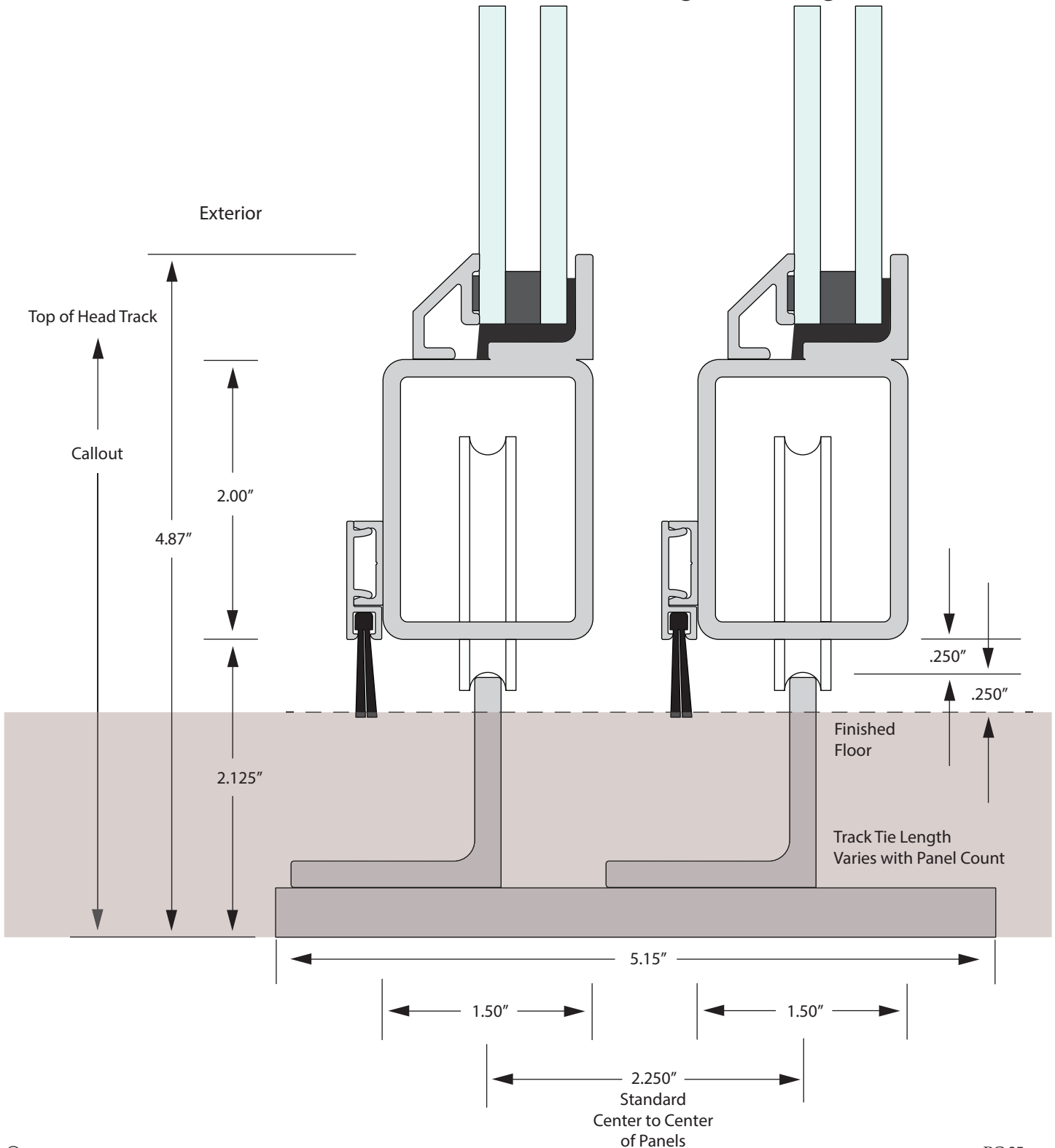
# TRUE STEEL EURO SLIDE

SLD-BT-ND-LP – Slider, Buried Track, Non-Draining, Low Profile



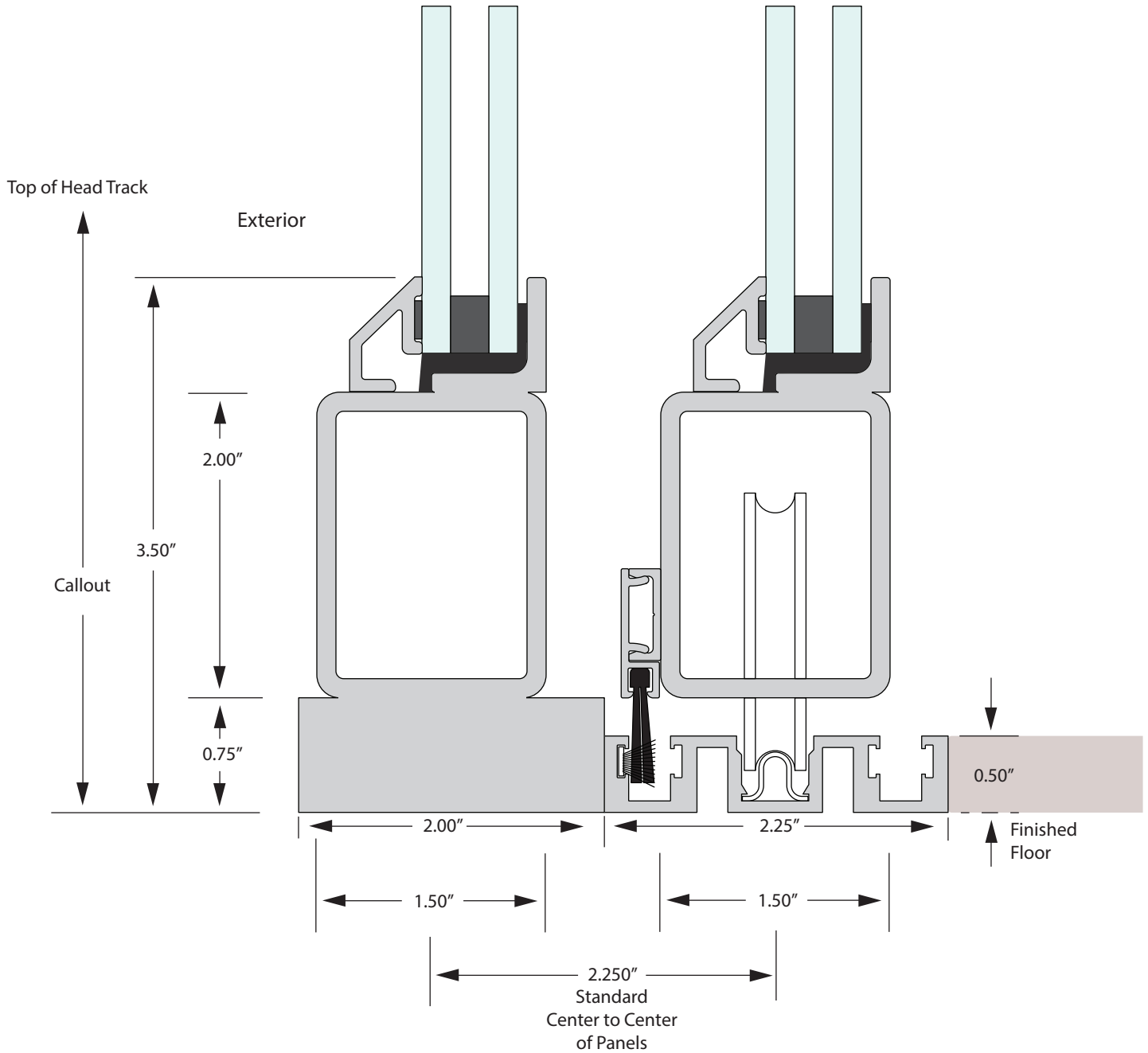
# TRUE STEEL EURO SLIDE

SLD-BT-ND-P-LP – Slider, Buried Track, Non-Draining, Pocketing, Low Profile



# TRUE STEEL EURO SLIDE

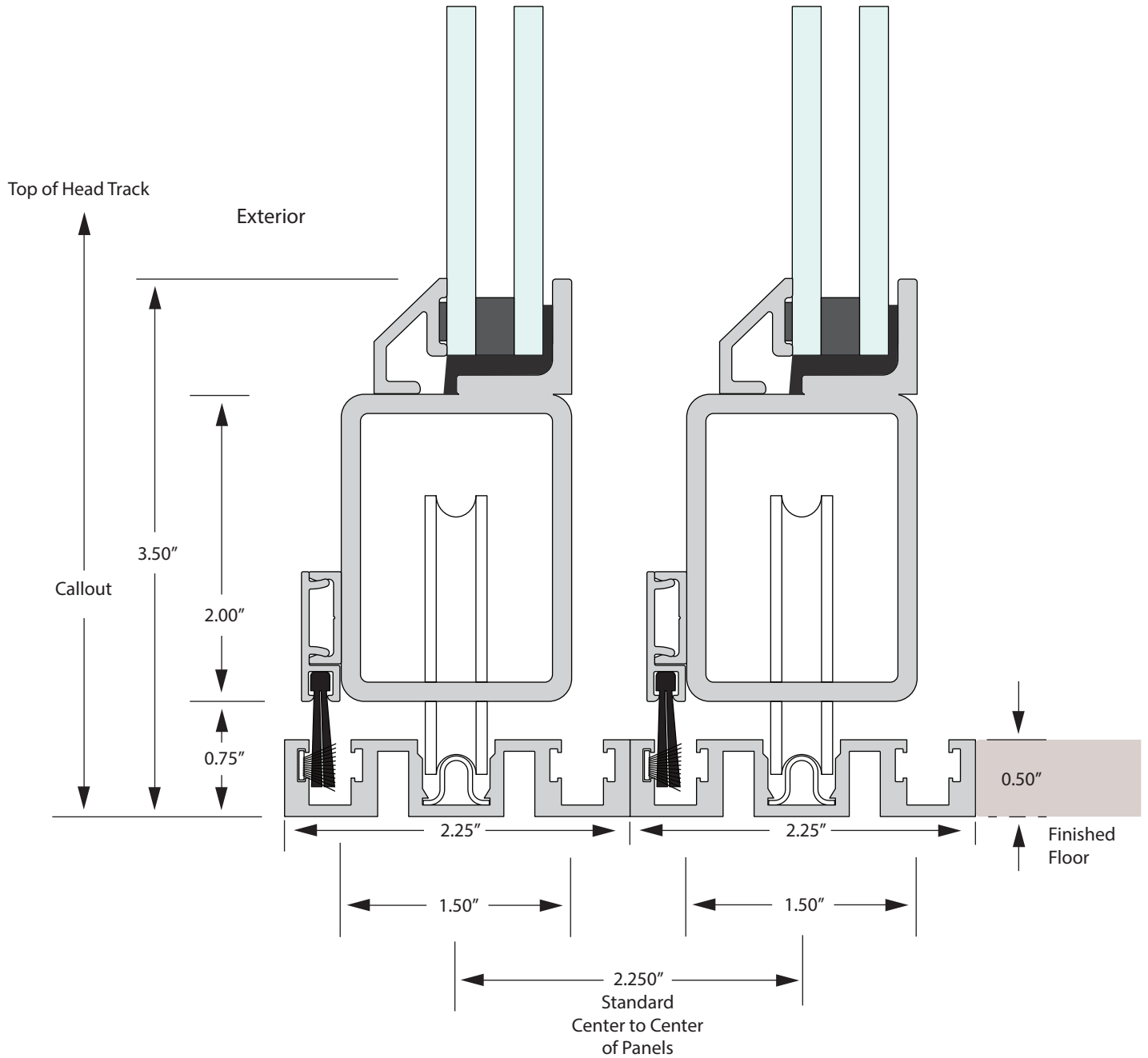
SLD-ST-LP – Slider, Surface Track, Low Profile





# TRUE STEEL EURO SLIDE

SLD-ST-P-LP – Slider, Surface Track, Pocketing, Low Profile

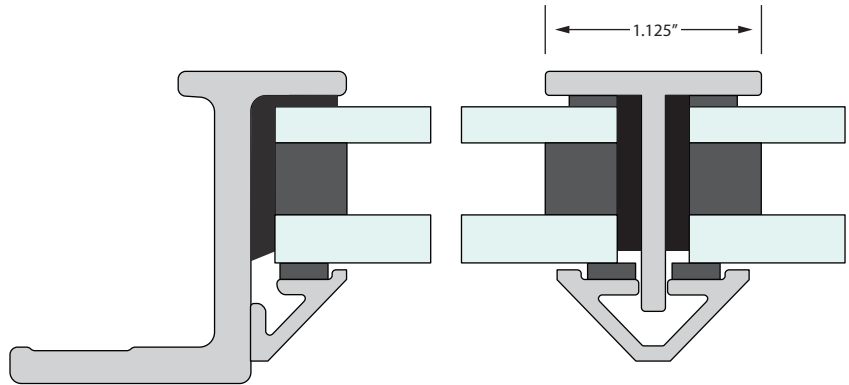




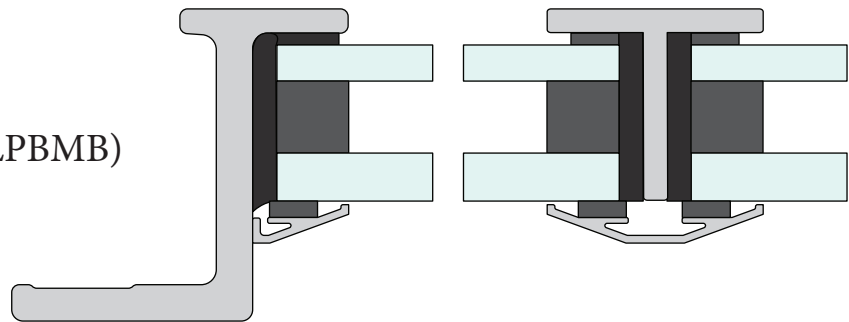
# TRUE STEEL<sub>EURO</sub>

## TDL Metal Bead Options

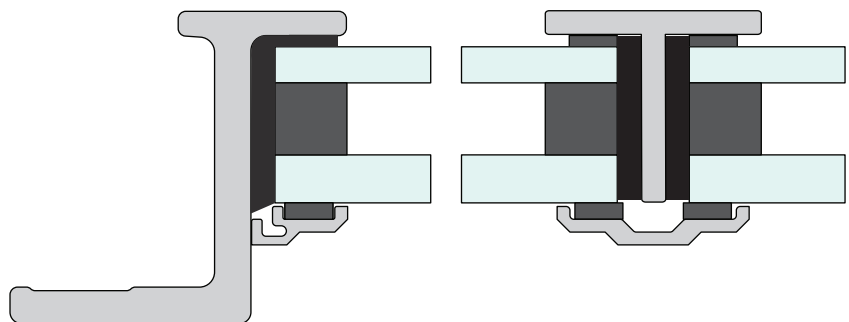
Beveled Metal Bead (BMB)



Low Profile Beveled Metal Bead (LPBMB)



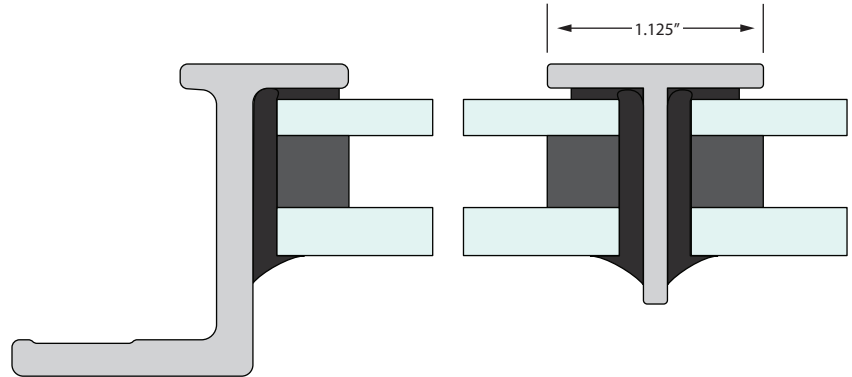
Flat Stepped Metal Bead (FSMB)



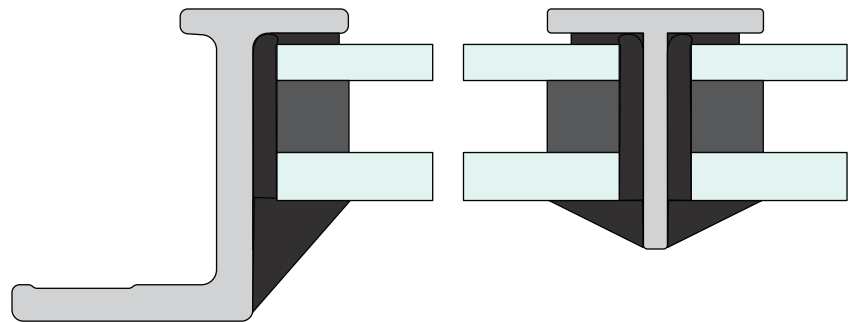
# TRUE STEEL<sub>EURO</sub>

## TDL Bead Silicon Options

Silicon Low Profile



Silicon Full Putty

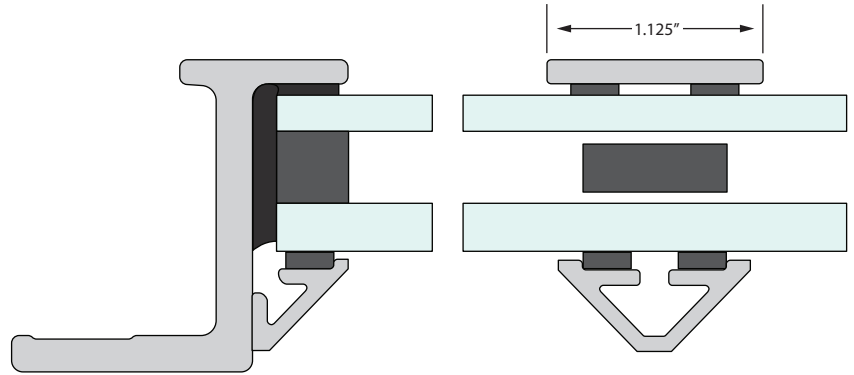




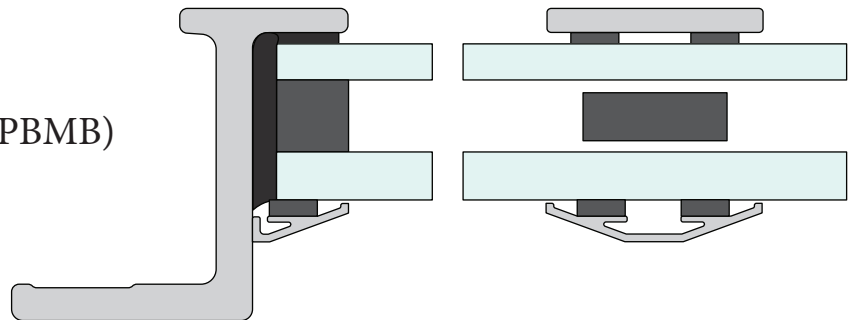
# TRUE STEEL<sub>EURO</sub>

## SDL Metal Bead Options

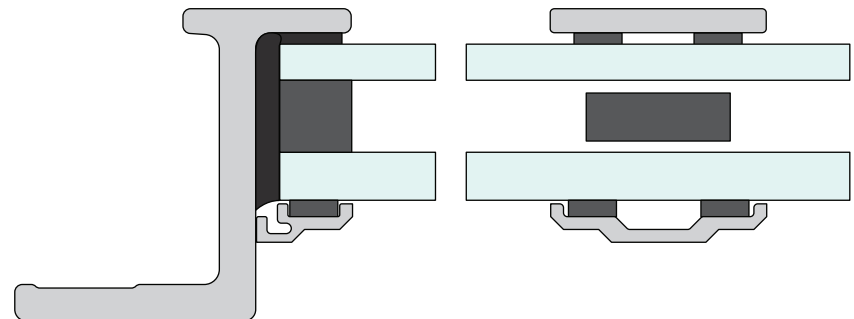
Beveled Metal Bead (BMB)



Low Profile Beveled Metal Bead (LPBMB)



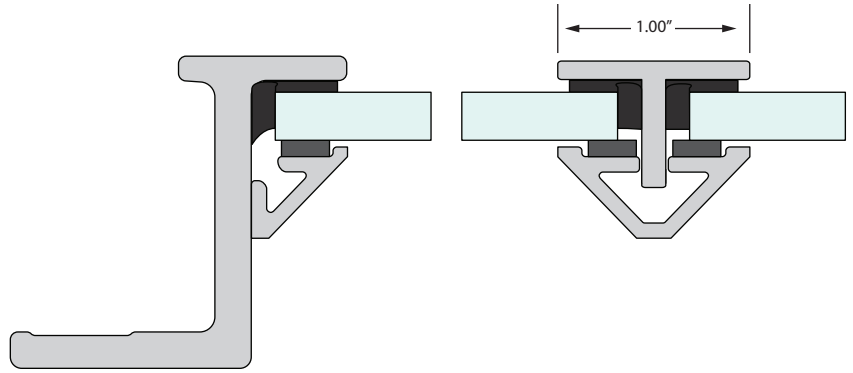
Flat Stepped Metal Bead (FSMB)



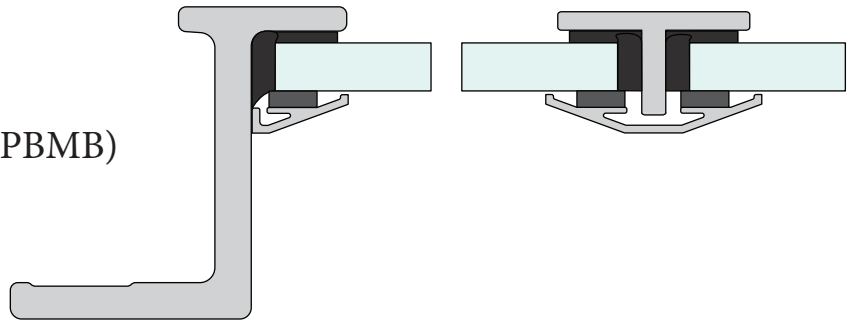
# TRUE STEEL<sub>EURO</sub>

## Single Pane Metal Bead Options

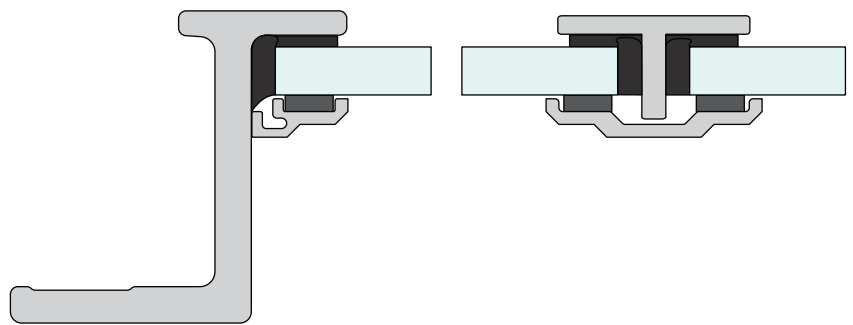
Beveled Metal Bead (BMB)



Low Profile Beveled Metal Bead (LPBMB)



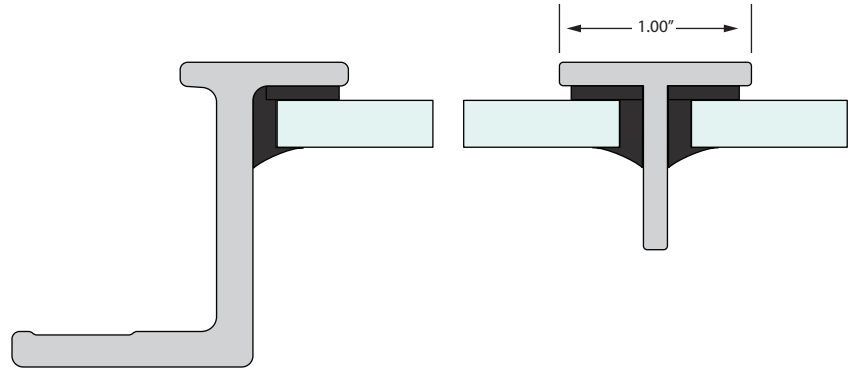
Flat Stepped Metal Bead (FSMB)



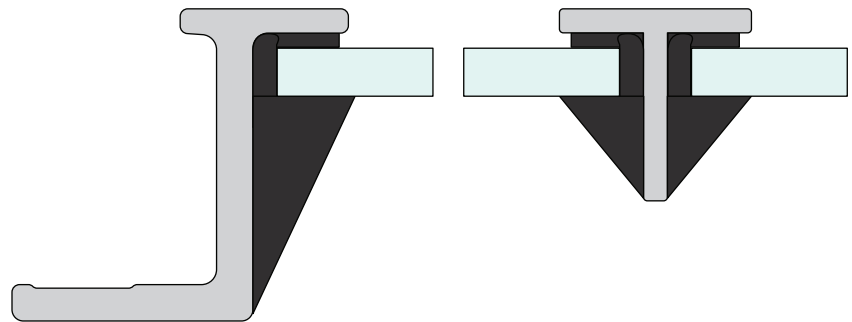
# TRUE STEEL<sub>EURO</sub>

## Single Pane Bead Silicone Options

Silicone Low Profile



Silicon Full Putty



# TRUE STEEL EURO

## General Maximum Size Limit Guidelines

**Fixed Windows ..... 144" W or H (65 sq ft max per panel)**

**Curtain Walls ..... 168" W or H (65 sq ft max per panel)**

**Casement Windows ..... 42" W x 144" H per leaf**

**Awning Windows ..... 120" W or H (42 sq ft max)**

**Swing Doors ..... 52" W x 144" H per door panel**

**Sliding Systems ..... 84" W x 144" H per panel**

**96" W x 120" H per panel**


**Bifold with Standard Hardware ..... 42" W x 126" H per panel**


**Bifold with Heavy-Duty Hardware .... 48" W x 162" H per panel**

**Pivot Doors ..... 96" W x 192" H**

*For oversize requests, please submit for engineering evaluation and approval.*




1/4" Temp SN68-3/8" Spacer Argon-3/16" Temp IS20												
True Steel												
	Fixed		Casement/ Awning		Out Swing Door		In Swing Door		Bi Fold Door		Multi-Slide Door	
	U Factor	SHGC	U Factor	SHGC	U Factor	SHGC	U Factor	SHGC	U Factor	SHGC	U Factor	SHGC
Lite	VT	VT	VT	VT	VT	VT	VT	VT	VT	VT	VT	VT
1 Lite	0.34	0.33	0.43	0.31	0.36	0.33	0.58	0.38	0.32	0.47	0.27	0.46
SDL	0.36	0.27	0.44	0.26	0.38	0.26	0.45	0.40	0.25	0.48	0.21	0.35
TDL 1w2h	0.37	0.27	0.46	0.26	0.38	0.26	0.45	0.40	0.25	0.48	0.21	0.35
TDL 1w3h	0.40	0.27	0.48	0.26	0.40	0.26	0.45	0.42	0.25	0.50	0.21	0.35
TDL 1w4h	0.42	0.27	0.51	0.26	0.42	0.26	0.45	0.44	0.25	0.52	0.21	0.35

1/4" Temp SN68-1/2" Spacer Argon-3/16" Temp IS20												
True Steel												
	Fixed		Casement/ Awning		Out Swing Door		In Swing Door		Bi Fold Door		Multi-Slide Door	
	U Factor	SHGC	U Factor	SHGC	U Factor	SHGC	U Factor	SHGC	U Factor	SHGC	U Factor	SHGC
Lite	VT	VT	VT	VT	VT	VT	VT	VT	VT	VT	VT	VT
1 Lite	0.33	0.33	0.42	0.31	0.35	0.33	0.58	0.37	0.31	0.46	0.27	0.46
SDL	0.33	0.27	0.42	0.26	0.35	0.26	0.45	0.37	0.25	0.46	0.21	0.35
TDL 1w2h	0.36	0.27	0.45	0.26	0.37	0.26	0.45	0.39	0.25	0.48	0.21	0.35
TDL 1w3h	0.39	0.27	0.48	0.26	0.39	0.26	0.45	0.41	0.25	0.49	0.21	0.35
TDL 1w4h	0.42	0.27	0.50	0.26	0.41	0.26	0.45	0.42	0.25	0.51	0.21	0.35




1/4" Temp SN68-3/8" Spacer Argon-3/16" Temp Clear

True Steel

	Fixed		Casement/ Awning		Out Swing Door		In Swing Door		Bi Fold Door		Multi-Slide Door							
	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT						
Lite																		
1 Lite	0.39	0.34	0.61	0.48	0.32	0.56	0.41	0.34	0.60	0.43	0.29	0.57	0.51	0.28	0.48	0.48	0.31	0.53
SDL	0.41	0.28	0.49	0.50	0.27	0.47	0.43	0.27	0.46	0.45	0.26	0.44	0.52	0.22	0.36	0.49	0.25	0.40
TDL 1w2h	0.42	0.28	0.49	0.51	0.27	0.47	0.44	0.27	0.46	0.45	0.26	0.44	0.53	0.22	0.36	0.50	0.25	0.40
TDL 1w3h	0.46	0.28	0.49	0.54	0.27	0.47	0.46	0.27	0.46	0.47	0.26	0.44	0.54	0.22	0.36	0.52	0.25	0.40
TDL 1w4h	0.49	0.28	0.49	0.57	0.27	0.47	0.48	0.27	0.46	0.49	0.26	0.44	0.56	0.22	0.36	0.54	0.25	0.40


1/4" Temp SN68-1/2" Spacer Argon-3/16" Temp Clear


True Steel


	Fixed		Casement/ Awning		Out Swing Door		In Swing Door		Bi Fold Door		Multi-Slide Door							
	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT						
Lite																		
1 Lite	0.38	0.34	0.61	0.47	0.32	0.56	0.40	0.34	0.60	0.42	0.32	0.57	0.50	0.28	0.48	0.46	0.31	0.53
SDL	0.38	0.28	0.49	0.47	0.27	0.47	0.40	0.27	0.46	0.42	0.26	0.44	0.50	0.22	0.36	0.46	0.24	0.40
TDL 1w2h	0.41	0.28	0.49	0.50	0.27	0.47	0.43	0.27	0.46	0.44	0.26	0.44	0.52	0.22	0.36	0.49	0.24	0.40
TDL 1w3h	0.45	0.28	0.49	0.53	0.27	0.47	0.45	0.27	0.46	0.46	0.26	0.44	0.53	0.22	0.36	0.51	0.24	0.40
TDL 1w4h	0.48	0.28	0.49	0.56	0.27	0.47	0.47	0.27	0.46	0.48	0.26	0.44	0.55	0.22	0.36	0.53	0.24	0.40




## Guardian

1/4" Temp SNX62/27-3/8" Spacer Argon-3/16" Temp IS20																		
True Steel																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Bi Fold Door			Multi-Slide Door		
	Lite	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC
1 Lite	0.34	0.23	0.53	0.43	0.22	0.50	0.36	0.23	0.53	0.38	0.23	0.50	0.47	0.20	0.42	0.43	0.22	0.47
SDL	0.36	0.19	0.43	0.44	0.19	0.41	0.38	0.19	0.41	0.40	0.18	0.28	0.48	0.16	0.31	0.45	0.17	0.36
TDL 1w2h	0.37	0.19	0.43	0.46	0.19	0.41	0.38	0.19	0.41	0.40	0.18	0.28	0.48	0.16	0.31	0.45	0.17	0.36
TDL 1w3h	0.40	0.19	0.43	0.48	0.19	0.41	0.40	0.19	0.41	0.42	0.18	0.28	0.50	0.16	0.31	0.47	0.17	0.36
TDL 1w4h	0.42	0.19	0.43	0.51	0.19	0.41	0.42	0.19	0.41	0.44	0.18	0.28	0.52	0.16	0.31	0.49	0.17	0.36


1/4" Temp SNX62/27-1/2" Spacer Argon-3/16" Temp IS20																		
True Steel																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Bi Fold Door			Multi-Slide Door		
	Lite	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC
1 Lite	0.33	0.23	0.53	0.42	0.22	0.50	0.35	0.23	0.53	0.37	0.22	0.50	0.46	0.19	0.42	0.42	0.21	0.47
SDL	0.33	0.19	0.43	0.42	0.19	0.41	0.35	0.18	0.41	0.37	0.18	0.38	0.46	0.15	0.31	0.42	0.17	0.36
TDL 1w2h	0.36	0.19	0.43	0.45	0.19	0.41	0.37	0.18	0.41	0.39	0.18	0.38	0.48	0.15	0.31	0.44	0.17	0.36
TDL 1w3h	0.39	0.19	0.43	0.48	0.19	0.41	0.39	0.18	0.41	0.41	0.18	0.38	0.49	0.15	0.31	0.46	0.17	0.36
TDL 1w4h	0.42	0.19	0.43	0.50	0.19	0.41	0.41	0.18	0.41	0.42	0.18	0.38	0.51	0.15	0.31	0.48	0.17	0.36


1/4" Temp SNX62/27-3/8" Spacer Argon-3/16" Temp Clear																		
True Steel																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Bi Fold Door			Multi-Slide Door		
	Lite	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC
1 Lite	0.39	0.24	0.55	0.48	0.23	0.51	0.41	0.24	0.55	0.43	0.23	0.52	0.51	0.20	0.43	0.48	0.22	0.49
SDL	0.41	0.20	0.44	0.50	0.19	0.42	0.43	0.19	0.42	0.45	0.19	0.40	0.52	0.16	0.32	0.49	0.18	0.37
TDL 1w2h	0.42	0.20	0.44	0.51	0.19	0.42	0.44	0.19	0.42	0.45	0.19	0.40	0.53	0.16	0.32	0.50	0.18	0.37
TDL 1w3h	0.46	0.20	0.44	0.54	0.19	0.42	0.46	0.19	0.42	0.47	0.19	0.40	0.54	0.16	0.32	0.52	0.18	0.37
TDL 1w4h	0.49	0.20	0.44	0.57	0.19	0.42	0.48	0.19	0.42	0.49	0.19	0.40	0.56	0.16	0.32	0.54	0.18	0.37


1/4" Temp SNX62/27-1/2" Spacer Argon-3/16" Temp Clear																		
True Steel																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Bi Fold Door			Multi-Slide Door		
	Lite	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC
1 Lite	0.38	0.24	0.55	0.47	0.22	0.51	0.40	0.24	0.55	0.42	0.23	0.52	0.50	0.20	0.43	0.46	0.22	0.49
SDL	0.38	0.20	0.44	0.47	0.19	0.42	0.40	0.19	0.42	0.42	0.19	0.40	0.50	0.16	0.32	0.46	0.18	0.37
TDL 1w2h	0.41	0.20	0.44	0.50	0.19	0.42	0.43	0.19	0.42	0.44	0.19	0.40	0.52	0.16	0.32	0.49	0.18	0.37
TDL 1w3h	0.45	0.20	0.44	0.53	0.19	0.42	0.45	0.19	0.42	0.46	0.19	0.40	0.53	0.16	0.32	0.51	0.18	0.37
TDL 1w4h	0.48	0.20	0.44	0.56	0.19	0.42	0.47	0.19	0.42	0.48	0.19	0.40	0.55	0.16	0.32	0.53	0.18	0.37




**PPG**

3/16" Temp SB60-3/8" Spacer Argon-3/16" Temp i89																		
True Steel																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Bi Fold Door			Multi-Slide Door		
	Lite	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC
1 Lite	0.34	0.35	0.62	0.43	0.33	0.58	0.36	0.34	0.62	0.38	0.33	0.59	0.36	0.29	0.49	0.43	0.32	0.55
SDL	0.35	0.29	0.50	0.44	0.28	0.48	0.37	0.27	0.47	0.39	0.26	0.45	0.37	0.22	0.37	0.44	0.25	0.42
TDL 1w2h	0.36	0.29	0.50	0.45	0.28	0.48	0.38	0.27	0.47	0.39	0.26	0.45	0.37	0.22	0.37	0.45	0.25	0.42
TDL 1w3h	0.39	0.29	0.50	0.48	0.28	0.48	0.39	0.27	0.47	0.41	0.26	0.45	0.39	0.22	0.37	0.47	0.25	0.42
TDL 1w4h	0.42	0.29	0.50	0.50	0.28	0.48	0.41	0.27	0.47	0.43	0.26	0.45	0.41	0.22	0.37	0.49	0.25	0.42

3/16" Temp SB60-1/2" Spacer Argon-3/16" Temp i89																		
True Steel																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Bi Fold Door			Multi-Slide Door		
	Lite	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC
1 Lite	0.32	0.35	0.62	0.42	0.32	0.58	0.35	0.34	0.62	0.37	0.33	0.59	0.34	0.29	0.49	0.42	0.32	0.55
SDL	0.32	0.28	0.50	0.42	0.27	0.48	0.35	0.27	0.47	0.37	0.26	0.45	0.34	0.22	0.37	0.42	0.25	0.42
TDL 1w2h	0.35	0.28	0.50	0.44	0.27	0.48	0.37	0.27	0.47	0.38	0.26	0.45	0.36	0.22	0.37	0.44	0.25	0.42
TDL 1w3h	0.38	0.28	0.50	0.47	0.27	0.48	0.39	0.27	0.47	0.40	0.26	0.45	0.38	0.22	0.37	0.46	0.25	0.42
TDL 1w4h	0.41	0.28	0.50	0.50	0.27	0.48	0.41	0.27	0.47	0.42	0.26	0.45	0.40	0.22	0.37	0.47	0.25	0.42


3/16" Temp SB60-3/8" Spacer Argon-3/16" Temp Clear																		
True Steel																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Bi Fold Door			Multi-Slide Door		
	Lite	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC
1 Lite	0.39	0.35	0.63	0.48	0.33	0.59	0.41	0.35	0.63	0.43	0.34	0.60	0.41	0.29	0.50	0.47	0.32	0.56
SDL	0.41	0.29	0.51	0.50	0.28	0.49	0.43	0.28	0.48	0.45	0.27	0.46	0.43	0.23	0.37	0.49	0.26	0.42
TDL 1w2h	0.42	0.29	0.51	0.51	0.28	0.49	0.43	0.28	0.48	0.45	0.27	0.46	0.43	0.23	0.37	0.50	0.26	0.42
TDL 1w3h	0.45	0.29	0.51	0.54	0.28	0.49	0.46	0.28	0.48	0.47	0.27	0.46	0.46	0.23	0.37	0.52	0.26	0.42
TDL 1w4h	0.48	0.29	0.51	0.57	0.28	0.49	0.48	0.28	0.48	0.49	0.27	0.46	0.48	0.23	0.37	0.54	0.26	0.42


3/16" Temp SB60-1/2" Spacer Argon-3/16" Temp Clear																		
True Steel																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Bi Fold Door			Multi-Slide Door		
	Lite	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC
1 Lite	0.38	0.35	0.63	0.47	0.33	0.59	0.40	0.35	0.63	0.42	0.34	0.60	0.40	0.29	0.50	0.46	0.32	0.56
SDL	0.38	0.29	0.51	0.48	0.28	0.49	0.40	0.28	0.48	0.42	0.27	0.46	0.40	0.23	0.37	0.46	0.25	0.42
TDL 1w2h	0.41	0.29	0.51	0.50	0.28	0.49	0.42	0.28	0.48	0.44	0.27	0.46	0.42	0.23	0.37	0.49	0.25	0.42
TDL 1w3h	0.45	0.29	0.51	0.53	0.28	0.49	0.45	0.28	0.48	0.46	0.27	0.46	0.45	0.23	0.37	0.51	0.25	0.42
TDL 1w4h	0.48	0.29	0.51	0.56	0.28	0.49	0.47	0.28	0.48	0.48	0.27	0.46	0.47	0.23	0.37	0.53	0.25	0.42







**PPG**

3/16" Temp SB70-3/8" Spacer Argon-3/16" Temp i89																		
True Steel																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Bi Fold Door			Multi-Slide Door		
	Lite	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC
1 Lite	0.33	0.24	0.55	0.42	0.23	0.51	0.35	0.24	0.55	0.37	0.24	0.52	0.35	0.21	0.44	0.42	0.23	0.49
SDL	0.34	0.20	0.44	0.43	0.20	0.42	0.37	0.19	0.42	0.39	0.19	0.40	0.37	0.16	0.32	0.44	0.18	0.37
TDL 1w2h	0.36	0.20	0.44	0.45	0.20	0.42	0.37	0.19	0.42	0.39	0.19	0.40	0.37	0.16	0.32	0.44	0.18	0.37
TDL 1w3h	0.39	0.20	0.44	0.47	0.20	0.42	0.39	0.19	0.42	0.41	0.19	0.40	0.39	0.16	0.32	0.46	0.18	0.37
TDL 1w4h	0.41	0.20	0.44	0.50	0.20	0.42	0.41	0.19	0.42	0.43	0.19	0.40	0.41	0.16	0.32	0.48	0.18	0.37


3/16" Temp SB70-1/2" Spacer Argon-3/16" Temp i89																		
True Steel																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Bi Fold Door			Multi-Slide Door		
	Lite	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC
1 Lite	0.32	0.24	0.55	0.41	0.23	0.51	0.34	0.24	0.55	0.36	0.24	0.52	0.34	0.20	0.44	0.41	0.22	0.49
SDL	0.32	0.20	0.44	0.41	0.20	0.42	0.34	0.19	0.42	0.36	0.19	0.40	0.34	0.16	0.32	0.41	0.18	0.37
TDL 1w2h	0.35	0.20	0.44	0.44	0.20	0.42	0.36	0.19	0.42	0.38	0.19	0.40	0.36	0.16	0.32	0.43	0.18	0.37
TDL 1w3h	0.38	0.20	0.44	0.47	0.20	0.42	0.38	0.19	0.42	0.40	0.19	0.40	0.38	0.16	0.32	0.45	0.18	0.37
TDL 1w4h	0.41	0.20	0.44	0.49	0.20	0.42	0.40	0.19	0.42	0.42	0.19	0.40	0.40	0.16	0.32	0.47	0.18	0.37


3/16" Temp SB70-3/8" Spacer Argon-3/16" Temp Clear																		
True Steel																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Bi Fold Door			Multi-Slide Door		
	Lite	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC
1 Lite	0.39	0.25	0.56	0.48	0.24	0.53	0.41	0.25	0.56	0.43	0.24	0.53	0.41	0.21	0.44	0.47	0.23	0.50
SDL	0.40	0.21	0.45	0.49	0.20	0.43	0.43	0.20	0.43	0.44	0.19	0.40	0.43	0.17	0.33	0.49	0.19	0.38
TDL 1w2h	0.42	0.21	0.45	0.51	0.20	0.43	0.43	0.20	0.43	0.44	0.19	0.40	0.43	0.17	0.33	0.49	0.19	0.38
TDL 1w3h	0.45	0.21	0.45	0.53	0.20	0.43	0.45	0.20	0.43	0.46	0.19	0.40	0.45	0.17	0.33	0.51	0.19	0.38
TDL 1w4h	0.48	0.21	0.45	0.56	0.20	0.43	0.47	0.20	0.43	0.48	0.19	0.40	0.47	0.17	0.33	0.54	0.19	0.38


3/16" Temp SB70-1/2" Spacer Argon-3/16" Temp Clear																		
True Steel																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Bi Fold Door			Multi-Slide Door		
	Lite	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC
1 Lite	0.37	0.25	0.56	0.47	0.23	0.53	0.40	0.25	0.56	0.41	0.24	0.53	0.40	0.21	0.44	0.46	0.23	0.50
SDL	0.37	0.20	0.45	0.47	0.20	0.43	0.40	0.20	0.43	0.41	0.19	0.40	0.40	0.16	0.33	0.46	0.18	0.38
TDL 1w2h	0.41	0.20	0.45	0.50	0.20	0.43	0.42	0.20	0.43	0.43	0.19	0.40	0.42	0.16	0.33	0.48	0.18	0.38
TDL 1w3h	0.44	0.20	0.45	0.53	0.20	0.43	0.44	0.20	0.43	0.45	0.19	0.40	0.44	0.16	0.33	0.50	0.18	0.38
TDL 1w4h	0.47	0.20	0.45	0.56	0.20	0.43	0.47	0.20	0.43	0.47	0.19	0.40	0.47	0.16	0.33	0.52	0.18	0.38




## Cardinal

3/16" Temp 270-3/8" Spacer Argon-3/16" Temp i89																		
True Steel																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Bi Fold Door			Multi-Slide Door		
	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT
Lite																		
1 Lite	0.34	0.32	0.60	0.43	0.30	0.56	0.36	0.32	0.59	0.38	0.31	0.56	0.36	0.26	0.47	0.43	0.29	0.53
SDL	0.35	0.26	0.48	0.44	0.25	0.46	0.37	0.25	0.46	0.39	0.24	0.43	0.37	0.21	0.35	0.44	0.23	0.40
TDL 1w2h	0.36	0.26	0.48	0.45	0.25	0.46	0.38	0.25	0.46	0.40	0.24	0.43	0.37	0.21	0.35	0.45	0.23	0.40
TDL 1w3h	0.39	0.26	0.48	0.48	0.25	0.46	0.40	0.25	0.46	0.41	0.24	0.43	0.39	0.21	0.35	0.46	0.23	0.40
TDL 1w4h	0.42	0.26	0.48	0.50	0.25	0.46	0.41	0.25	0.46	0.43	0.24	0.43	0.41	0.21	0.35	0.48	0.23	0.40


3/16" Temp 270-1/2" Spacer Argon-3/16" Temp i89																		
True Steel																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Bi fold Door			Multi-Slide Door		
	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT
Lite																		
1 Lite	0.33	0.32	0.60	0.42	0.30	0.56	0.35	0.31	0.59	0.37	0.31	0.56	0.35	0.26	0.47	0.42	0.29	0.53
SDL	0.33	0.26	0.48	0.42	0.25	0.46	0.35	0.25	0.46	0.37	0.24	0.43	0.35	0.21	0.35	0.42	0.23	0.40
TDL 1w2h	0.35	0.26	0.48	0.44	0.25	0.46	0.37	0.25	0.46	0.38	0.24	0.43	0.36	0.21	0.35	0.44	0.23	0.40
TDL 1w3h	0.38	0.26	0.48	0.47	0.25	0.46	0.39	0.25	0.46	0.40	0.24	0.43	0.38	0.21	0.35	0.46	0.23	0.40
TDL 1w4h	0.41	0.26	0.48	0.50	0.25	0.46	0.41	0.25	0.46	0.42	0.24	0.43	0.40	0.21	0.35	0.47	0.23	0.40


3/16" Temp 270-3/8" Spacer Argon-3/16" Temp Clear																		
True Steel																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Bi Fold Door			Multi-Slide Door		
	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT
Lite																		
1 Lite	0.39	0.33	0.61	0.48	0.31	0.57	0.41	0.32	0.60	0.43	0.31	0.57	0.41	0.27	0.48	0.47	0.30	0.54
SDL	0.41	0.27	0.49	0.50	0.31	0.57	0.43	0.26	0.46	0.45	0.25	0.44	0.43	0.21	0.36	0.49	0.24	0.41
TDL 1w2h	0.42	0.27	0.49	0.51	0.26	0.47	0.43	0.26	0.46	0.45	0.25	0.44	0.43	0.21	0.36	0.49	0.24	0.41
TDL 1w3h	0.45	0.27	0.49	0.54	0.26	0.47	0.46	0.26	0.46	0.47	0.25	0.44	0.45	0.21	0.36	0.51	0.24	0.41
TDL 1w4h	0.49	0.27	0.49	0.57	0.26	0.47	0.48	0.26	0.46	0.49	0.25	0.44	0.47	0.21	0.36	0.53	0.24	0.41


3/16" Temp 270-1/2" Spacer Argon-3/16" Temp Clear																		
True Steel																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Bi Fold Door			Multi-Slide Door		
	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT
Lite																		
1 Lite	0.38	0.32	0.61	0.47	0.30	0.57	0.40	0.32	0.60	0.42	0.31	0.57	0.40	0.27	0.48	0.46	0.30	0.54
SDL	0.38	0.27	0.49	0.47	0.26	0.47	0.40	0.25	0.46	0.42	0.25	0.44	0.40	0.21	0.36	0.46	0.23	0.41
TDL 1w2h	0.41	0.27	0.49	0.50	0.26	0.47	0.43	0.25	0.46	0.44	0.25	0.44	0.42	0.21	0.36	0.49	0.23	0.41
TDL 1w3h	0.45	0.27	0.49	0.53	0.26	0.47	0.45	0.25	0.46	0.46	0.25	0.44	0.44	0.21	0.36	0.51	0.23	0.41
TDL 1w4h	0.48	0.27	0.49	0.56	0.26	0.47	0.47	0.25	0.46	0.48	0.25	0.44	0.47	0.21	0.36	0.53	0.23	0.41




## Cardinal

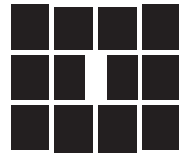
3/16" Temp 366-3/8" Spacer Argon-3/16" Temp i89																		
True Steel																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Bi Fold Door			Multi-Slide Door		
	Lite	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC
1 Lite	0.33	0.24	0.55	0.42	0.23	0.51	0.35	0.24	0.55	0.37	0.24	0.52	0.35	0.21	0.44	0.42	0.23	0.49
SDL	0.35	0.20	0.44	0.43	0.20	0.43	0.37	0.19	0.42	0.39	0.19	0.40	0.37	0.16	0.32	0.44	0.18	0.37
TDL 1w2h	0.36	0.20	0.44	0.45	0.20	0.43	0.37	0.19	0.42	0.39	0.19	0.40	0.37	0.16	0.32	0.44	0.18	0.37
TDL 1w3h	0.39	0.20	0.44	0.48	0.20	0.43	0.39	0.19	0.42	0.41	0.19	0.40	0.39	0.16	0.32	0.46	0.18	0.37
TDL 1w4h	0.41	0.20	0.44	0.50	0.20	0.43	0.41	0.19	0.42	0.43	0.19	0.40	0.41	0.16	0.32	0.48	0.18	0.37

3/16" Temp 366-1/2" Spacer Argon-3/16" Temp i89																		
True Steel																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Bi Fold Door			Multi-Slide Door		
	Lite	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC
1 Lite	0.32	0.24	0.55	0.41	0.23	0.51	0.34	0.24	0.55	0.36	0.23	0.52	0.34	0.20	0.44	0.41	0.22	0.49
SDL	0.32	0.20	0.44	0.41	0.19	0.43	0.34	0.19	0.42	0.36	0.19	0.40	0.34	0.16	0.32	0.41	0.18	0.37
TDL 1w2h	0.35	0.20	0.44	0.44	0.19	0.43	0.36	0.19	0.42	0.38	0.19	0.40	0.36	0.16	0.32	0.43	0.18	0.37
TDL 1w3h	0.38	0.20	0.44	0.47	0.19	0.43	0.38	0.19	0.42	0.40	0.19	0.40	0.38	0.16	0.32	0.45	0.18	0.37
TDL 1w4h	0.41	0.20	0.44	0.49	0.19	0.43	0.40	0.19	0.42	0.42	0.19	0.40	0.40	0.16	0.32	0.47	0.18	0.37

3/16" Temp 366-3/8" Spacer Argon-3/16" Temp Clear																		
True Steel																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Bi Fold Door			Multi-Slide Door		
	Lite	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC
1 Lite	0.39	0.25	0.56	0.48	0.24	0.52	0.41	0.25	0.56	0.43	0.24	0.53	0.41	0.21	0.44	0.47	0.23	0.50
SDL	0.40	0.21	0.45	0.49	0.24	0.53	0.43	0.20	0.43	0.44	0.19	0.41	0.42	0.17	0.33	0.48	0.19	0.38
TDL 1w2h	0.42	0.21	0.45	0.51	0.20	0.43	0.43	0.20	0.43	0.45	0.19	0.41	0.43	0.17	0.33	0.49	0.19	0.38
TDL 1w3h	0.45	0.21	0.45	0.53	0.20	0.43	0.45	0.20	0.43	0.46	0.19	0.41	0.45	0.17	0.33	0.51	0.19	0.38
TDL 1w4h	0.48	0.21	0.45	0.56	0.20	0.43	0.47	0.20	0.43	0.48	0.19	0.41	0.47	0.17	0.33	0.53	0.19	0.38

3/16" Temp 366-1/2" Spacer Argon-3/16" Temp Clear																		
True Steel																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Bi Fold Door			Multi-Slide Door		
	Lite	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC
1 Lite	0.38	0.25	0.56	0.47	0.23	0.52	0.40	0.24	0.56	0.41	0.24	0.53	0.40	0.21	0.44	0.46	0.23	0.50
SDL	0.38	0.20	0.45	0.47	0.20	0.43	0.40	0.20	0.43	0.41	0.19	0.41	0.40	0.16	0.33	0.46	0.18	0.38
TDL 1w2h	0.41	0.20	0.45	0.50	0.20	0.43	0.42	0.20	0.43	0.43	0.19	0.41	0.42	0.16	0.33	0.48	0.18	0.38
TDL 1w3h	0.44	0.20	0.45	0.53	0.20	0.43	0.44	0.20	0.43	0.45	0.19	0.41	0.44	0.16	0.33	0.50	0.18	0.38
TDL 1w4h	0.47	0.20	0.45	0.56	0.20	0.43	0.47	0.20	0.43	0.47	0.19	0.41	0.46	0.16	0.33	0.53	0.18	0.38

# Thermal Steel Product Guide with Cross Sections



**EUROLINE**  
STEEL WINDOWS & DOORS

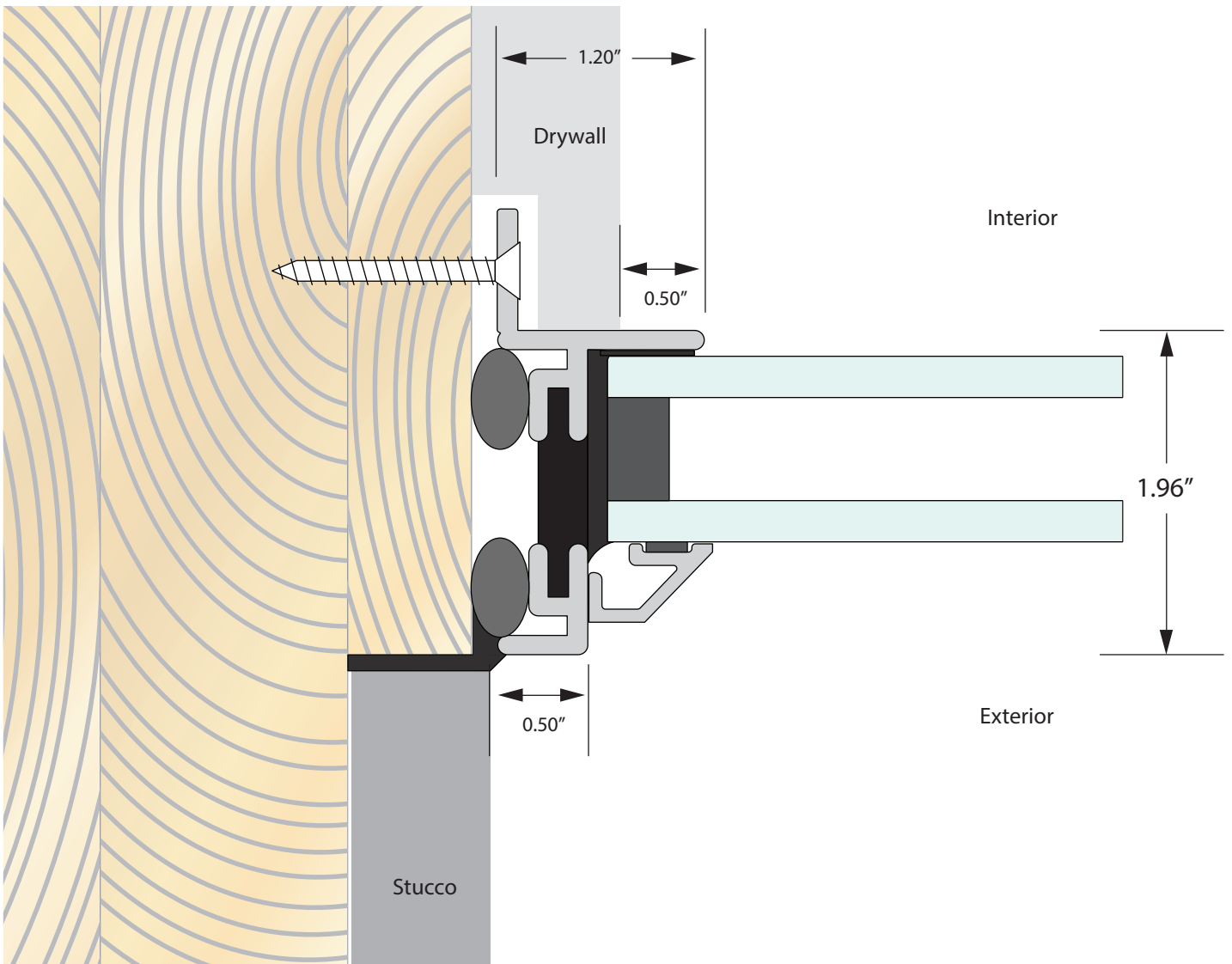


22600 Savi Ranch Pkwy.  
Yorba Linda, CA 92887  
[eurolinesteelwindows.com](http://eurolinesteelwindows.com)  
(877) 590-2741



# THERMAL STEEL EURO 900

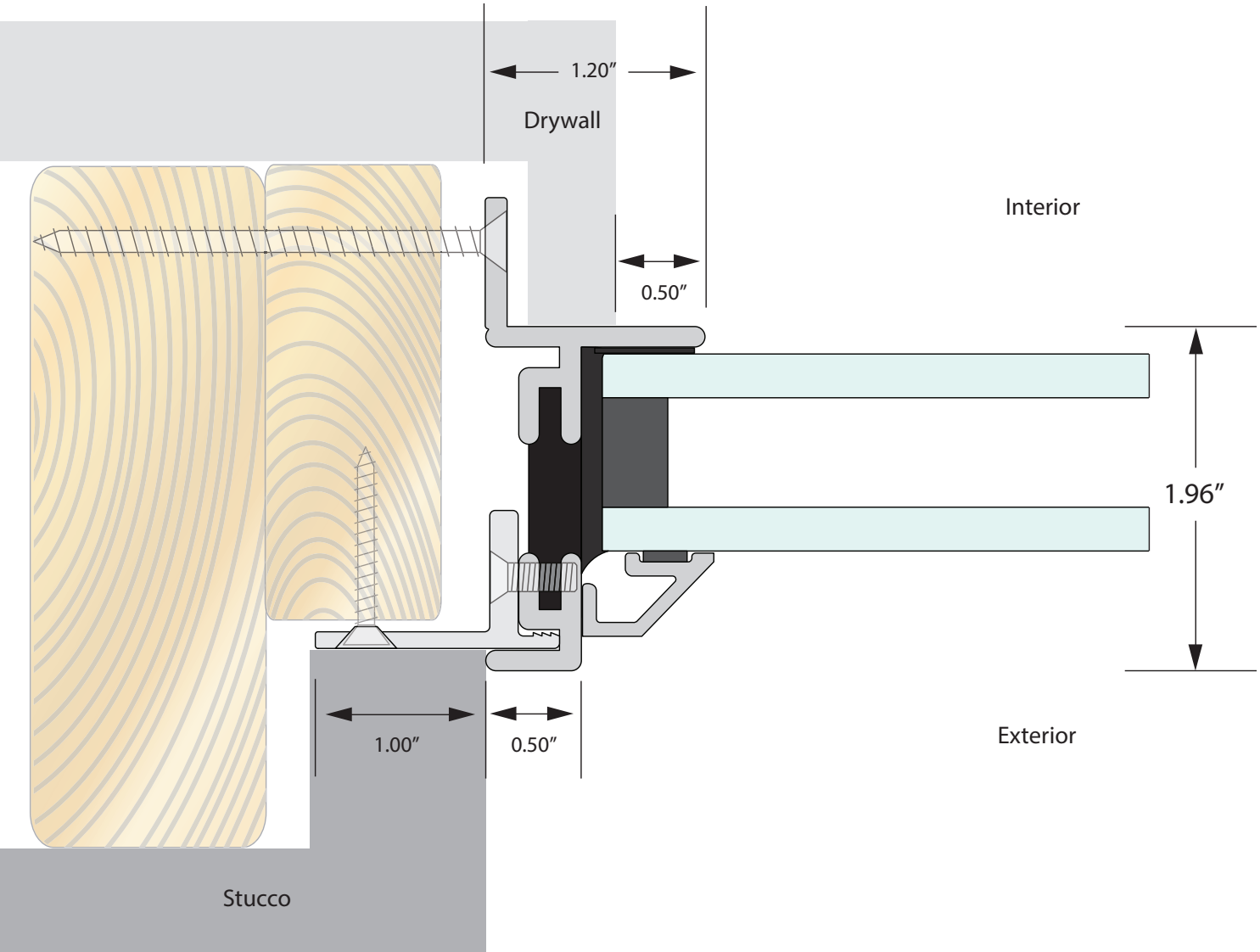
## Fixed Window





# THERMAL STEEL EURO 910

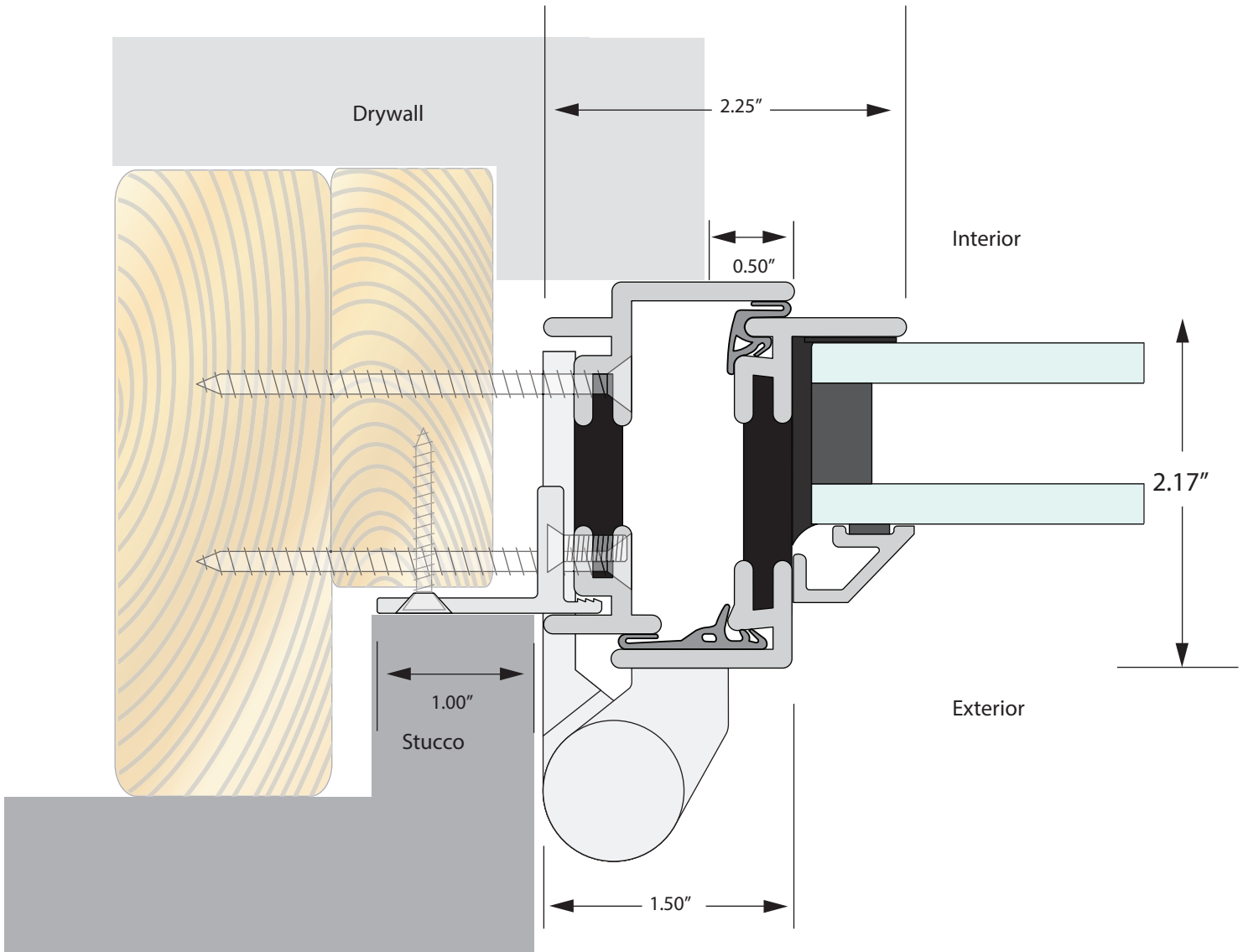
## Fixed Window with Nail Fin





# THERMAL STEEL EURO 910

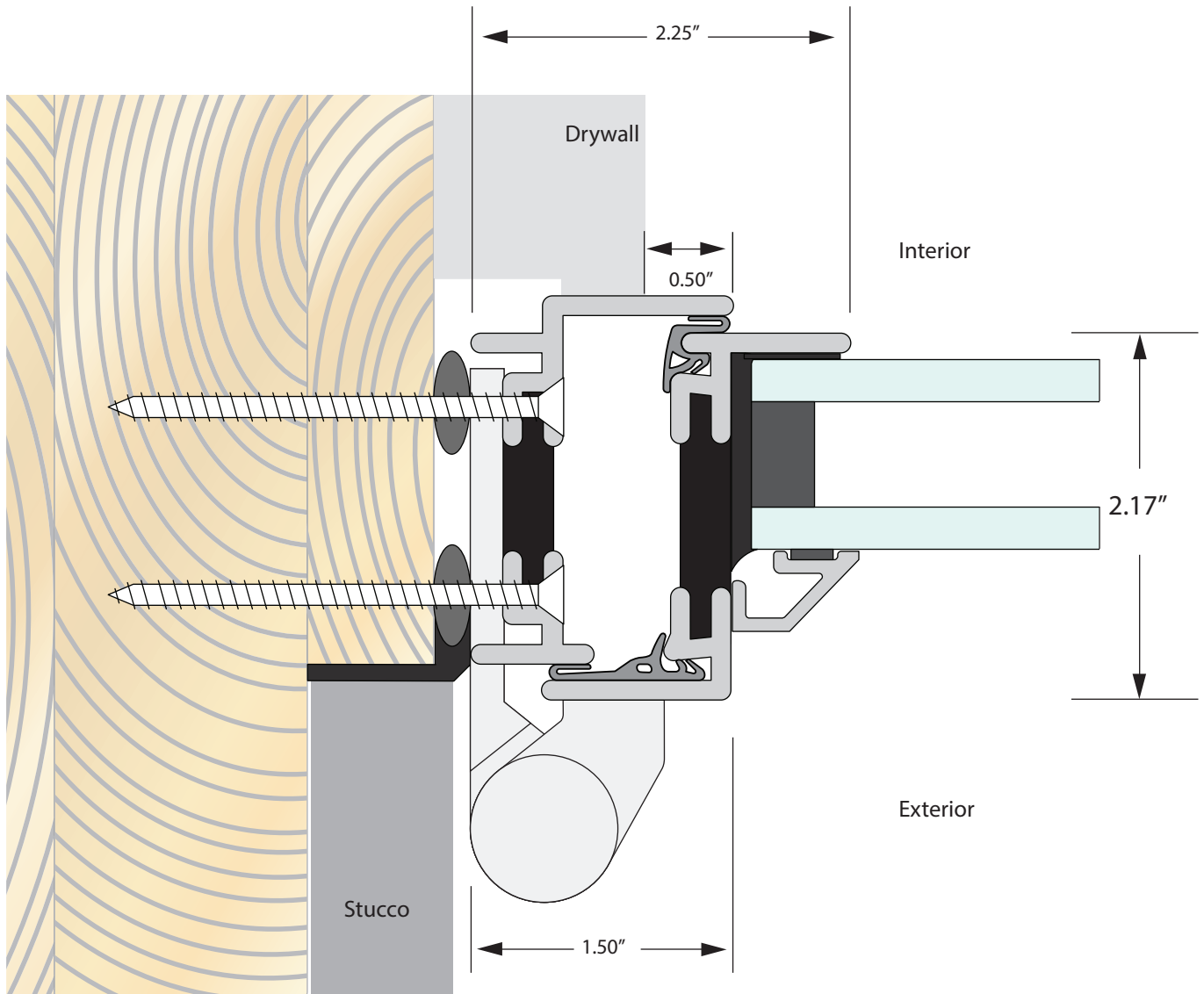
## Casement Window with Nail Fin





# THERMAL STEEL EURO 900

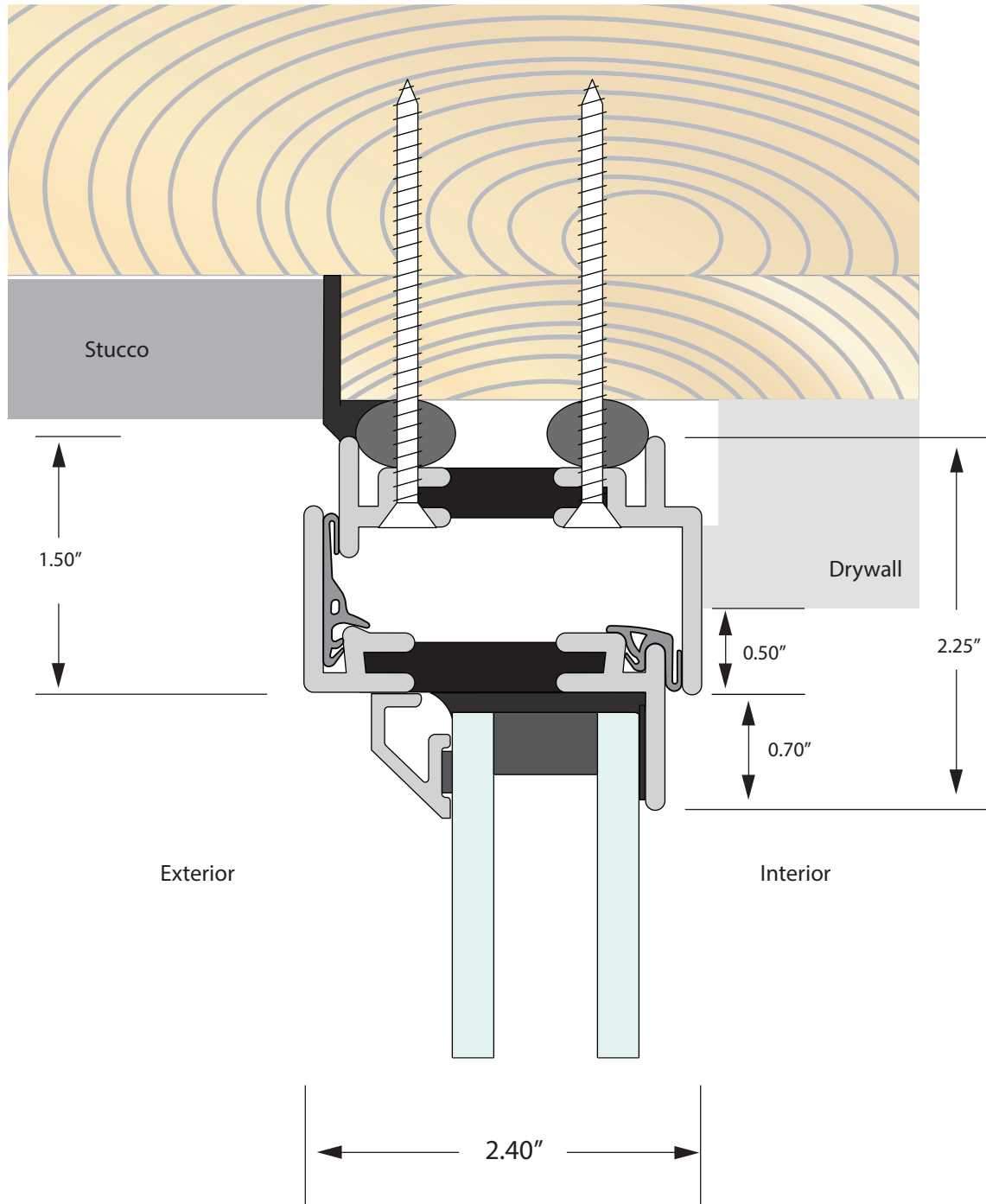
## Outswing Door and Casement Window





# THERMAL STEEL EURO<sup>900</sup>

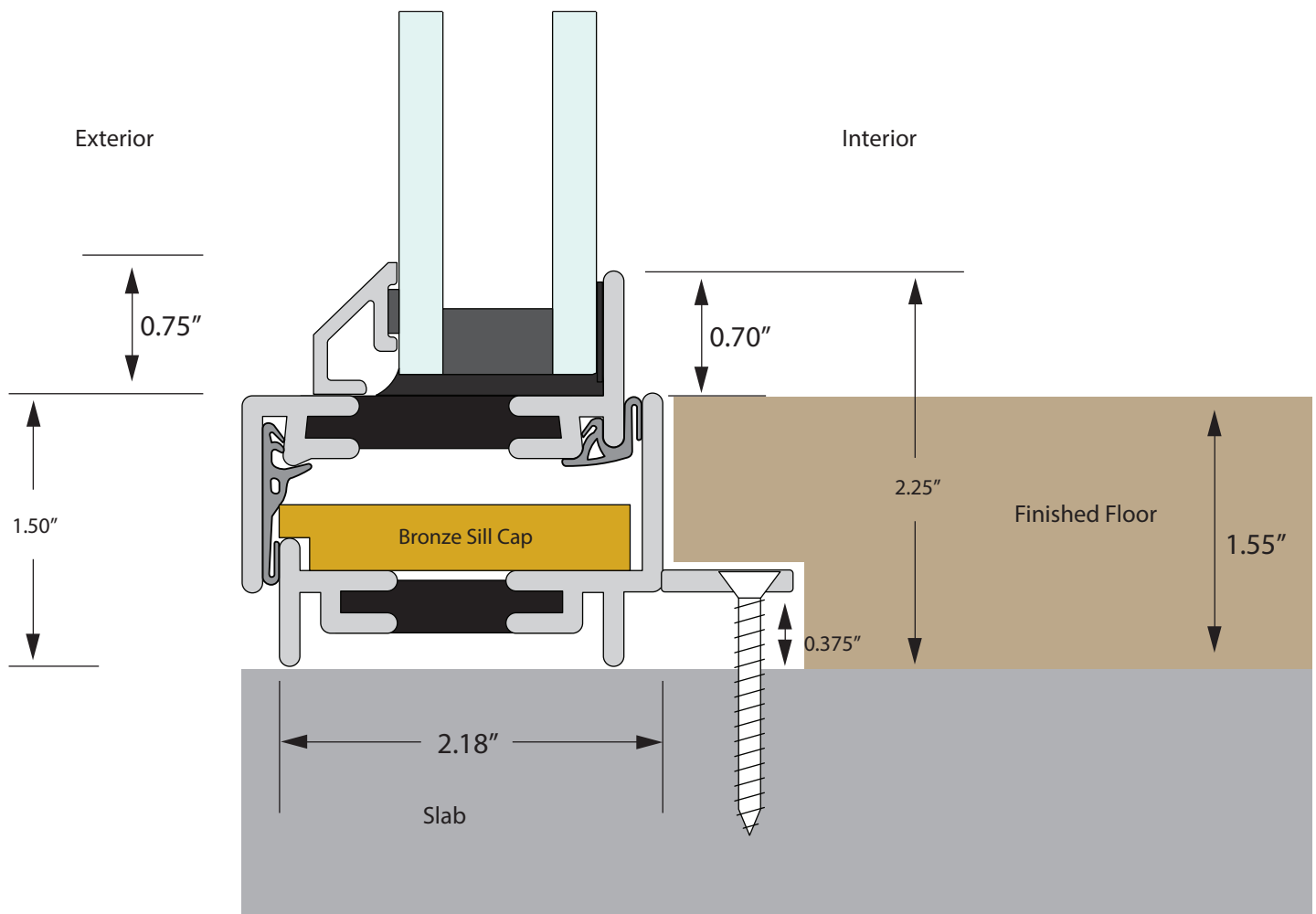
## Outswing Casement Window and Outswing Door Head





# THERMAL STEEL EURO 900

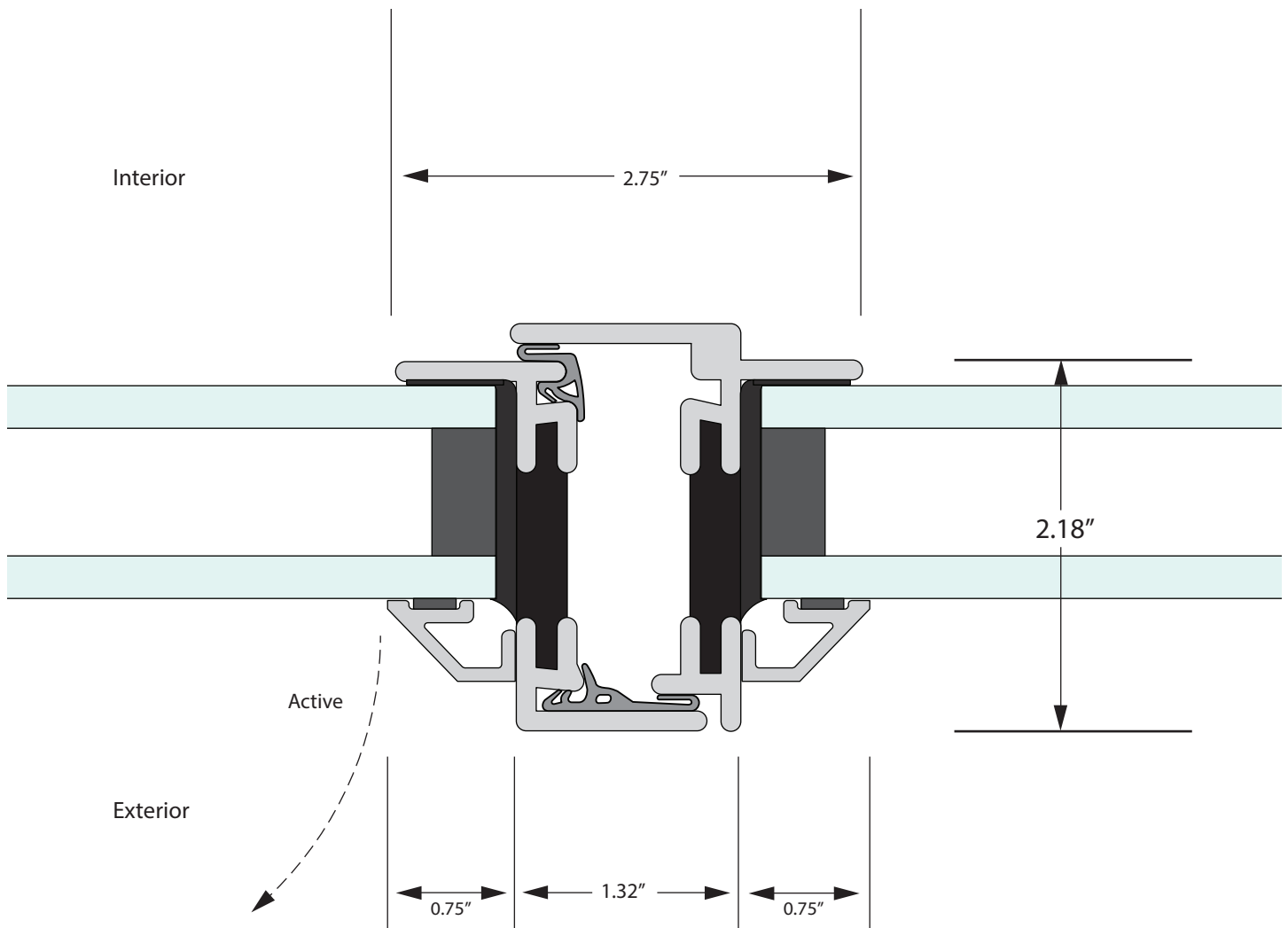
## Outswing Door Sill





# THERMAL STEEL EURO<sup>900</sup>

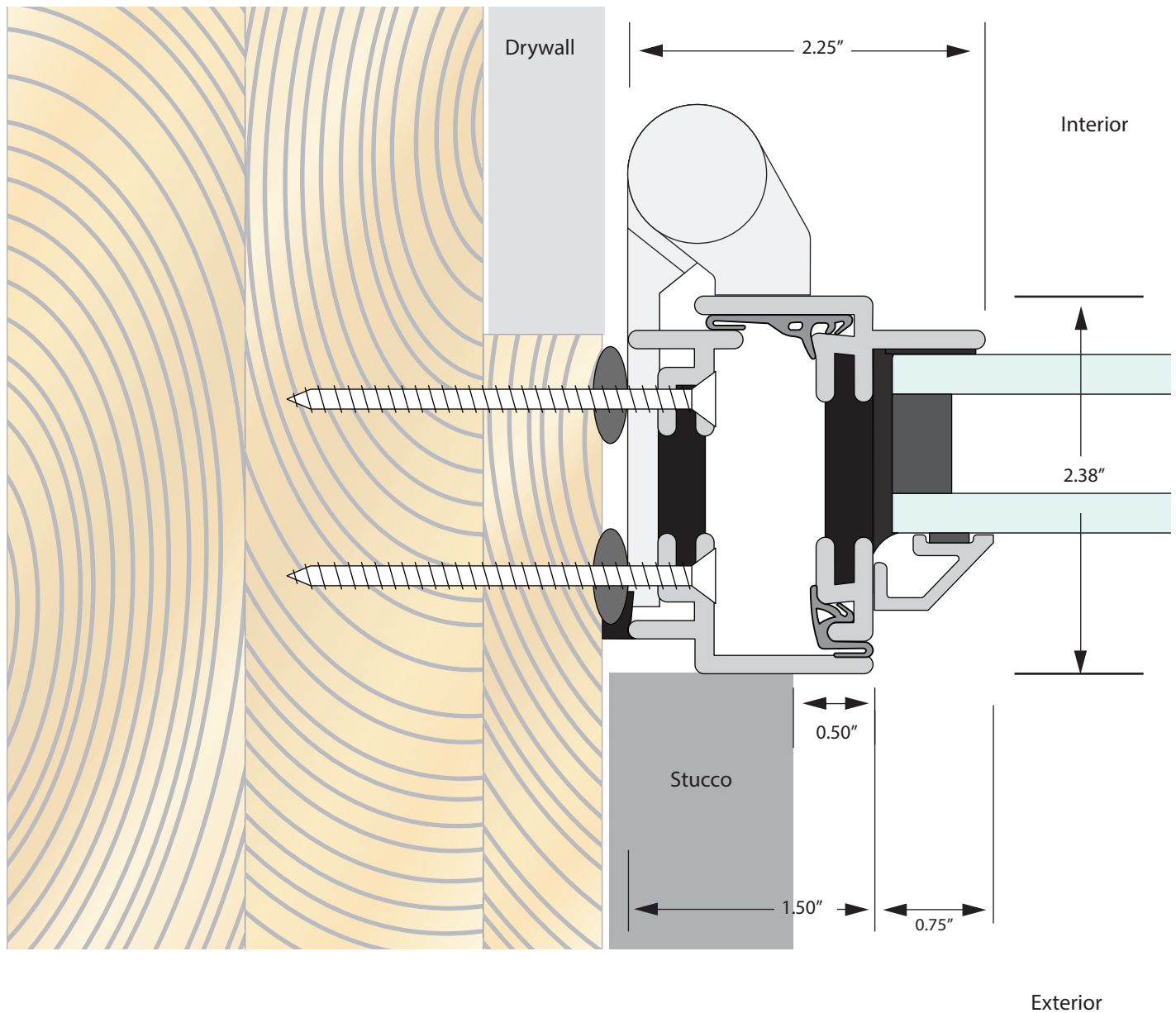
## Outswing French Door or French Window





# THERMAL STEEL EURO 900

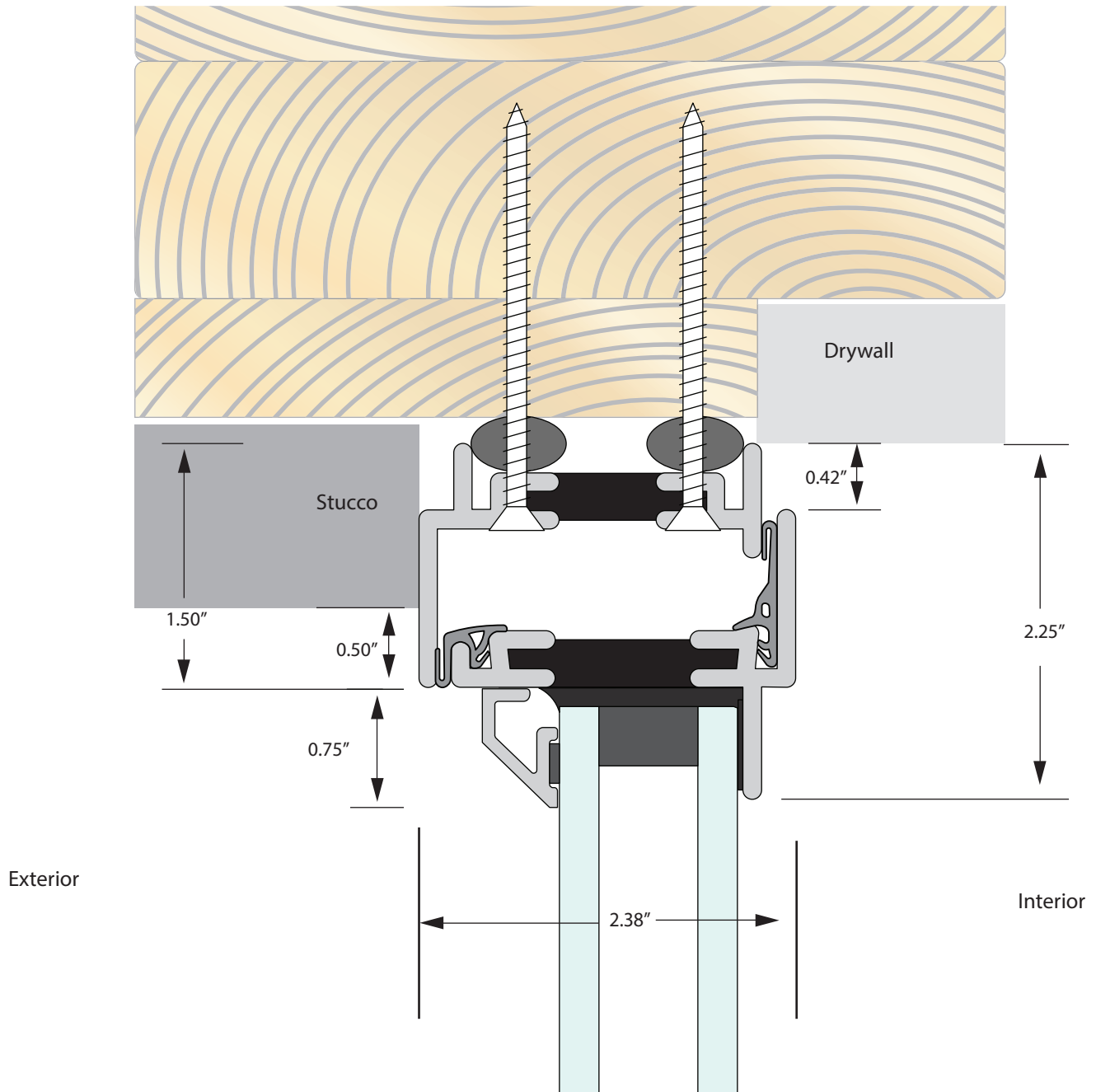
## Inswing Door and Casement Window





# THERMAL STEEL EURO<sup>900</sup>

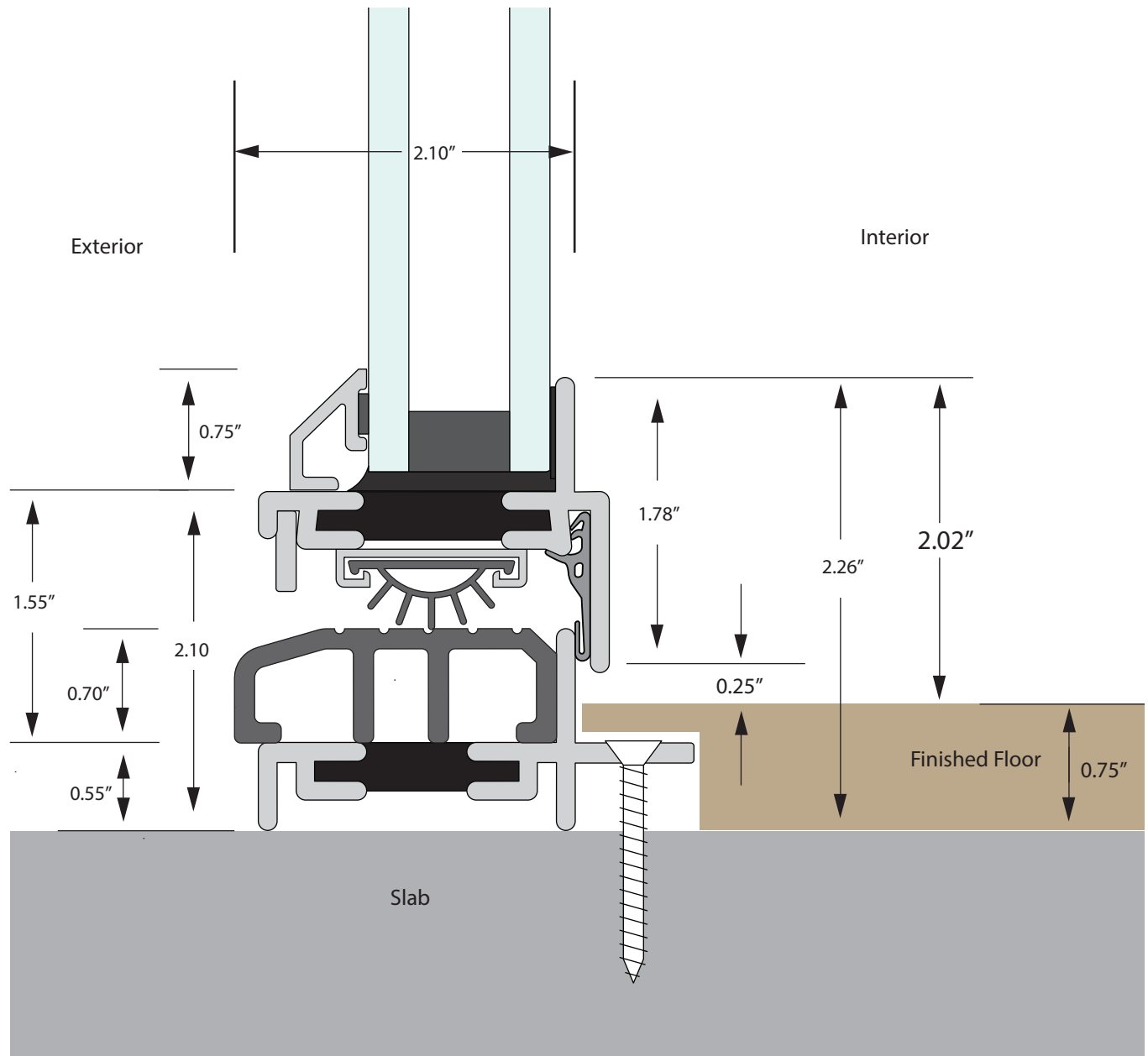
## Inswing Casement Window and Inswing Door Head





# THERMAL STEEL EURO 900

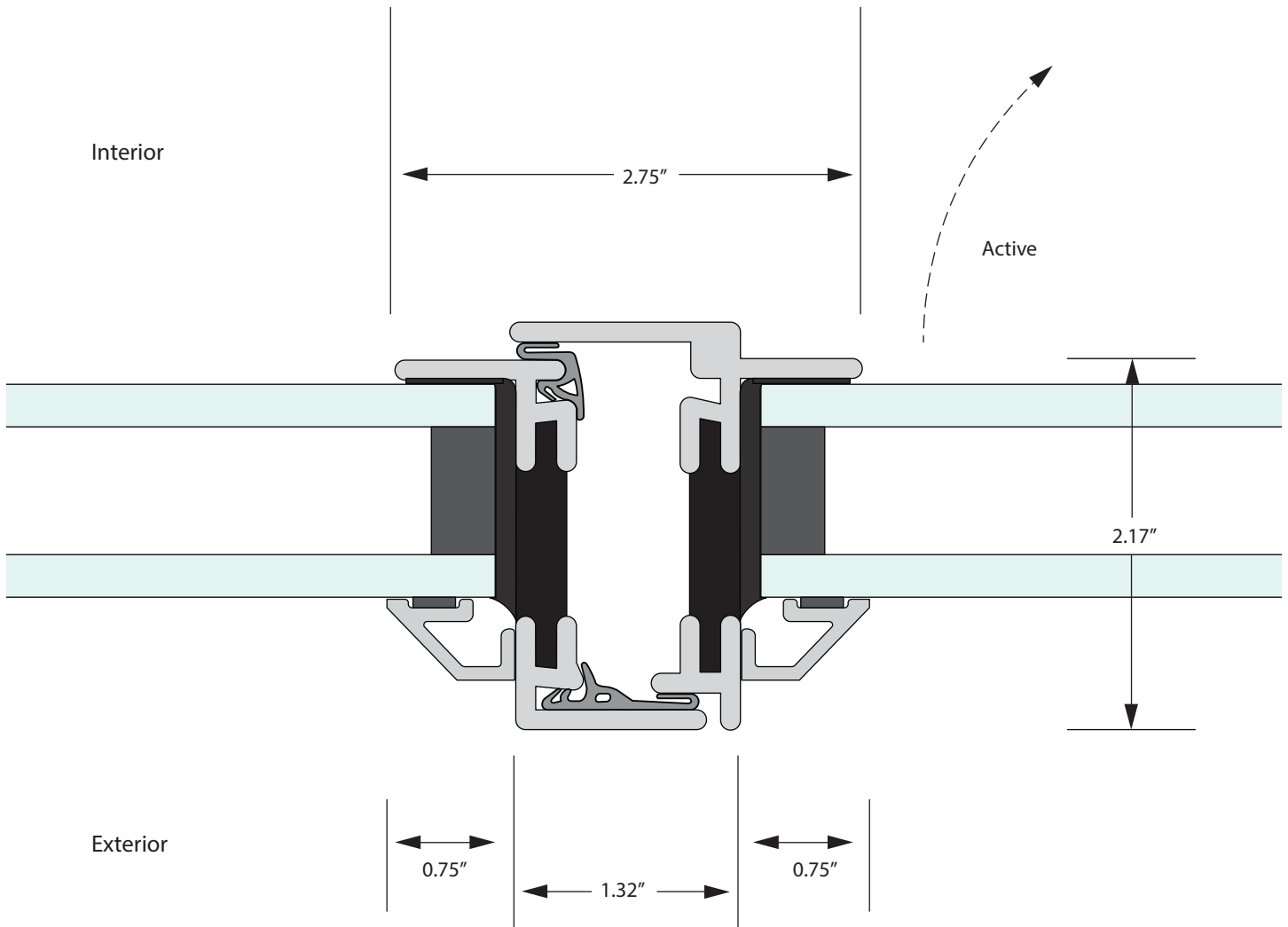
## Inswing Door Sill





# THERMAL STEEL EURO<sup>900</sup>

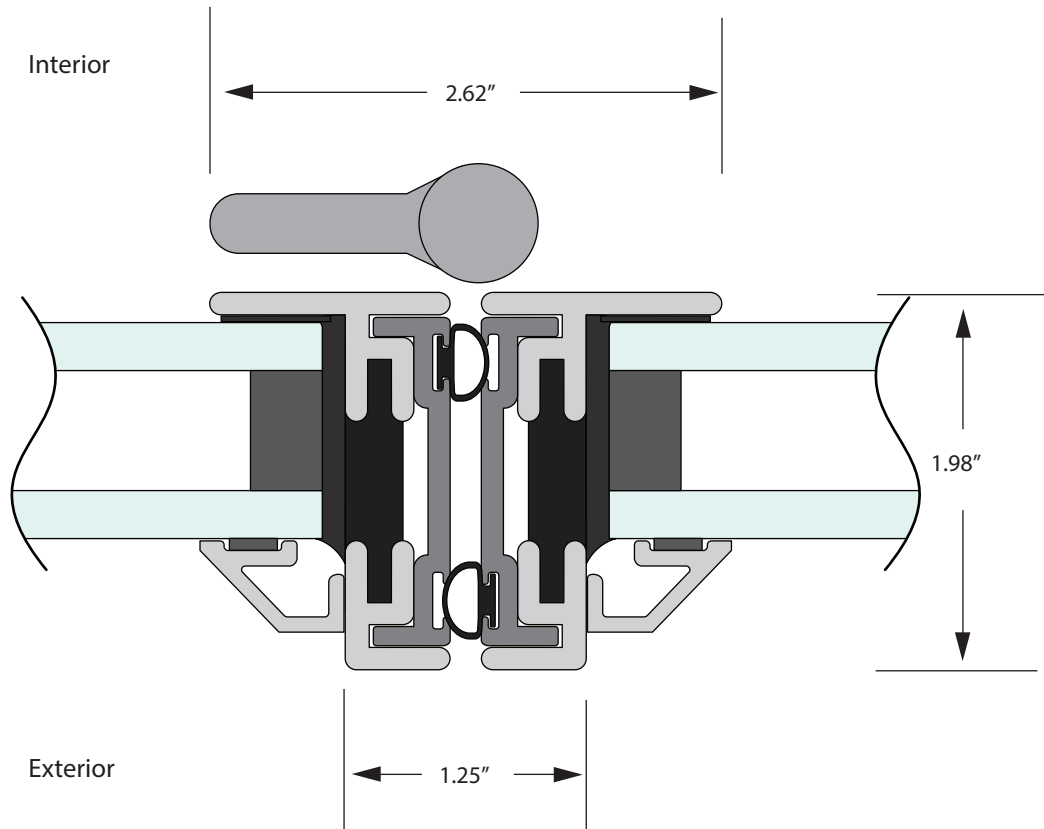
## Inswing French Door or French Window





# THERMAL STEEL EURO *BI-FOLD*

## Bifold Door to Door Cross-section

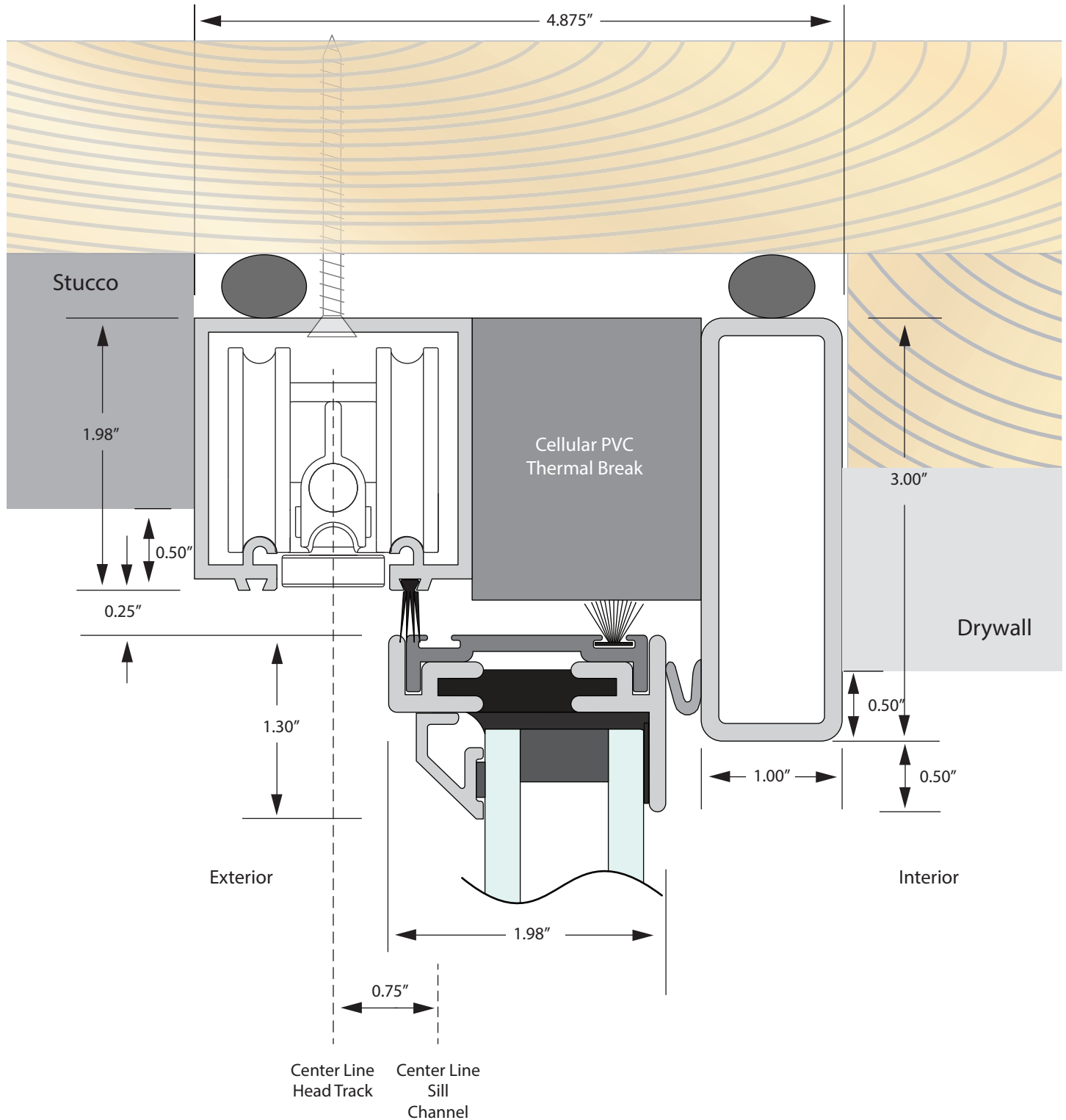






# THERMAL STEEL EURO BI-FOLD

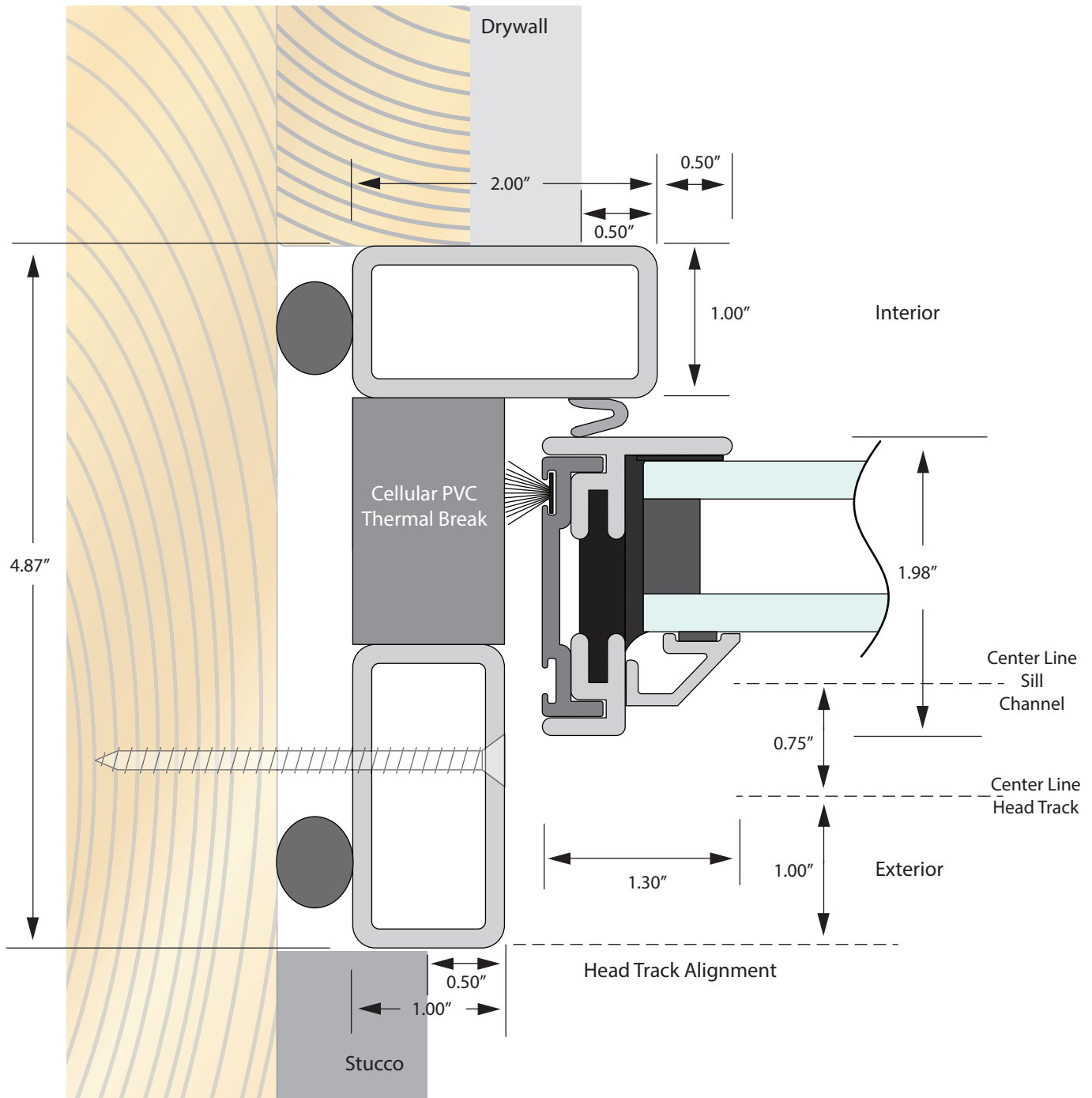
## Bifold Head





# THERMAL STEEL EURO BI-FOLD

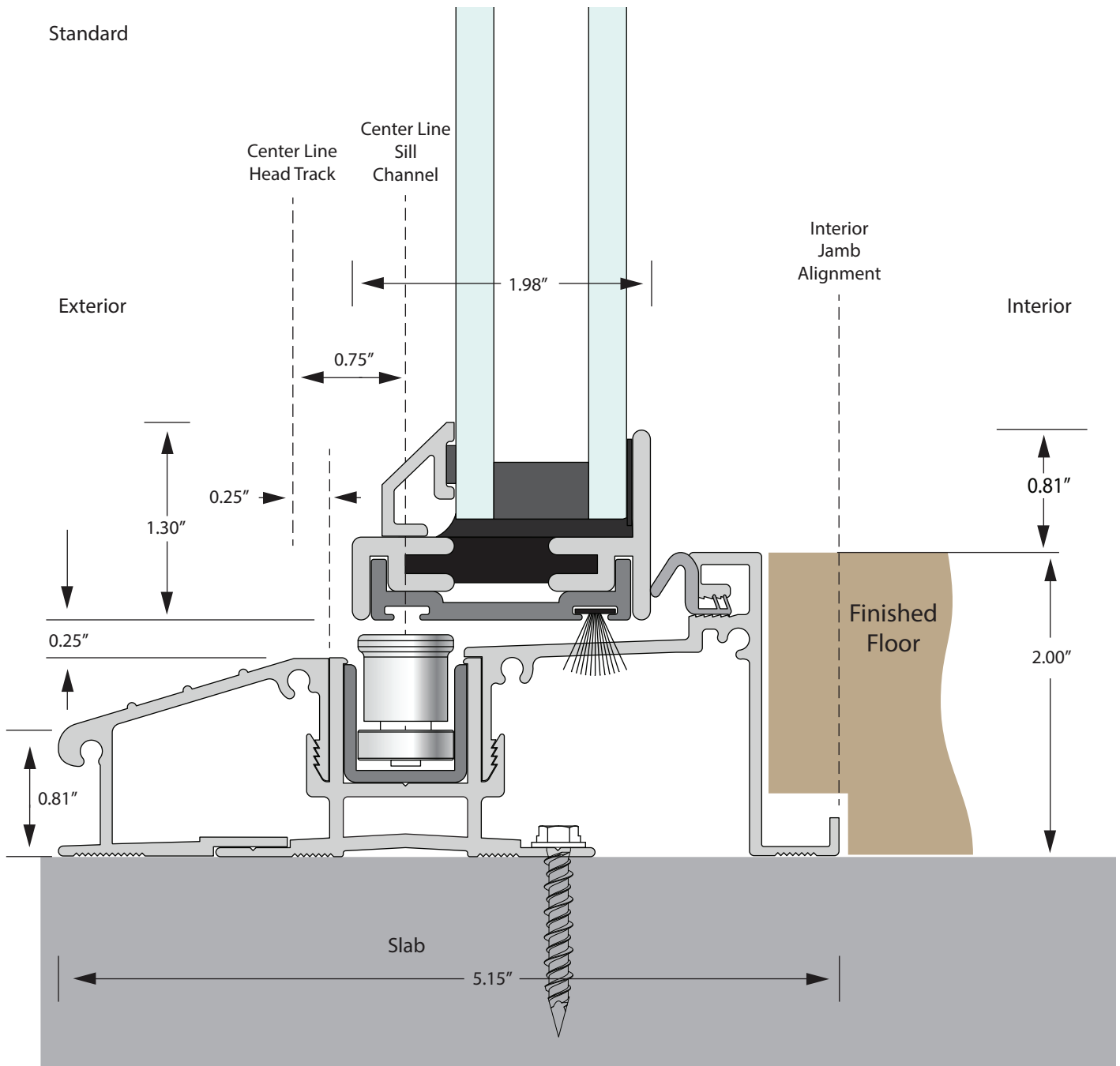
## Bifold Jambs





# THERMAL STEEL EURO BI-FOLD

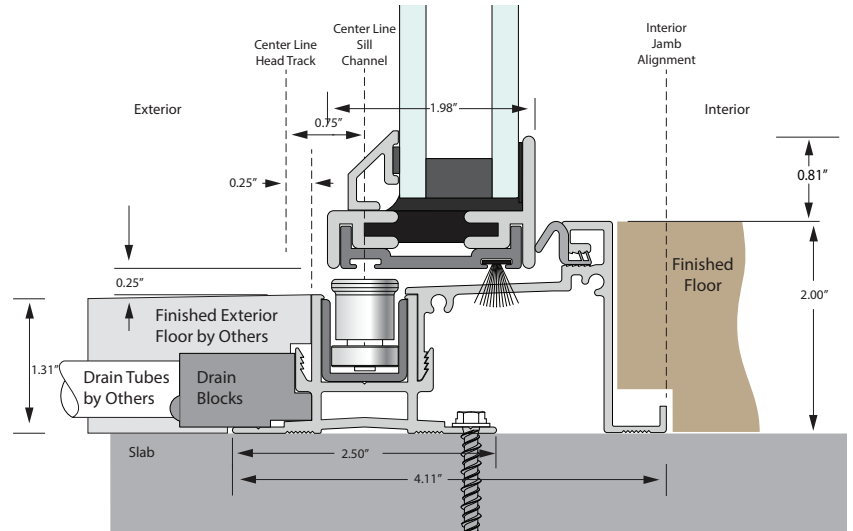
Bifold Sill with  
Aluminum Exterior Ramp  
Aluminum Interior Threshold and Bump Stop



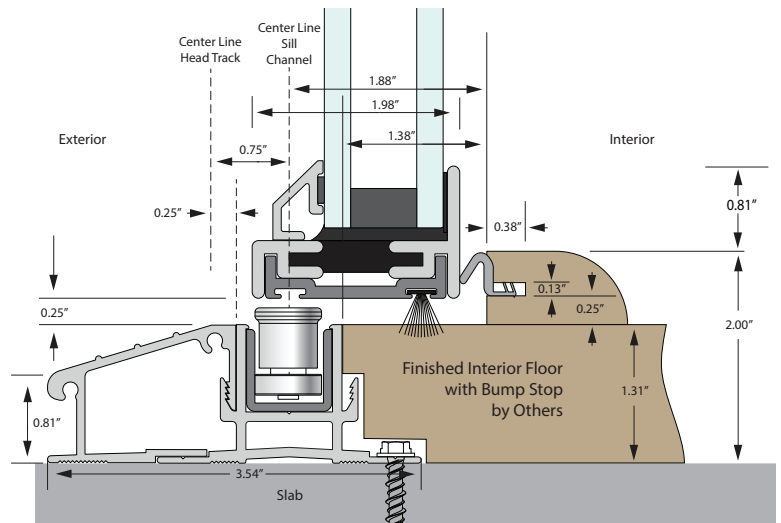
# THERMAL STEEL EURO BI-FOLD

## Bifold Sill

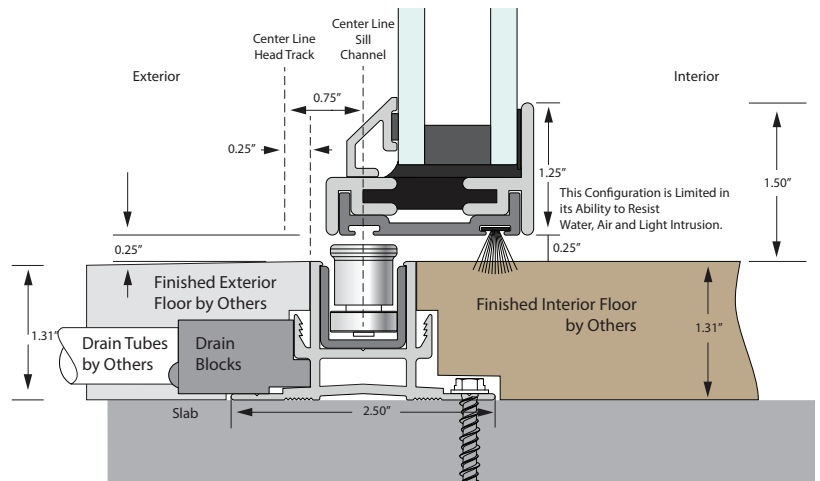
Option A  
U-Channel with Stop Seal



Option B  
U-Channel with External Ramp



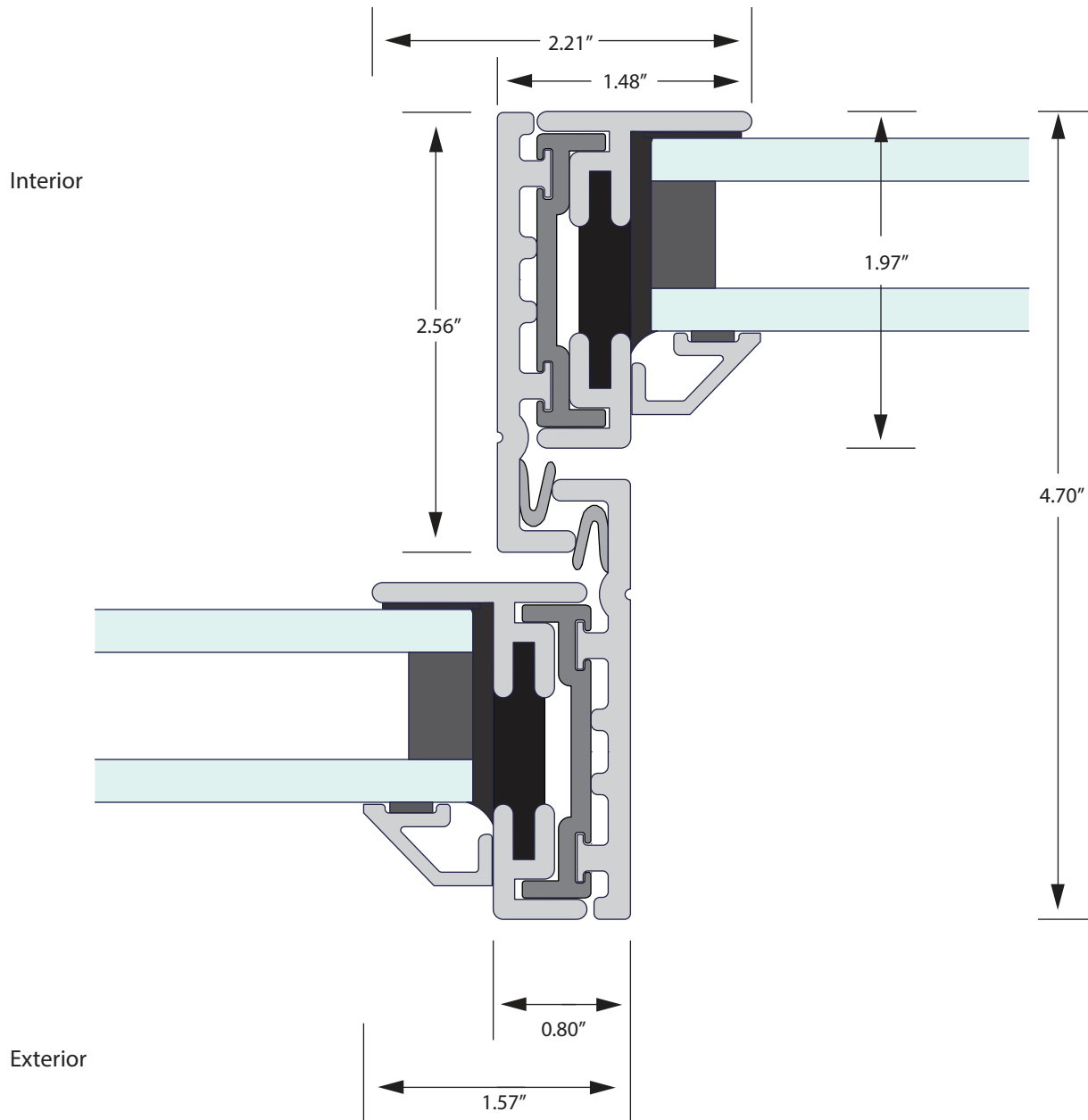
Option C  
U-Channel Flush





# THERMAL STEEL EURO SLIDE

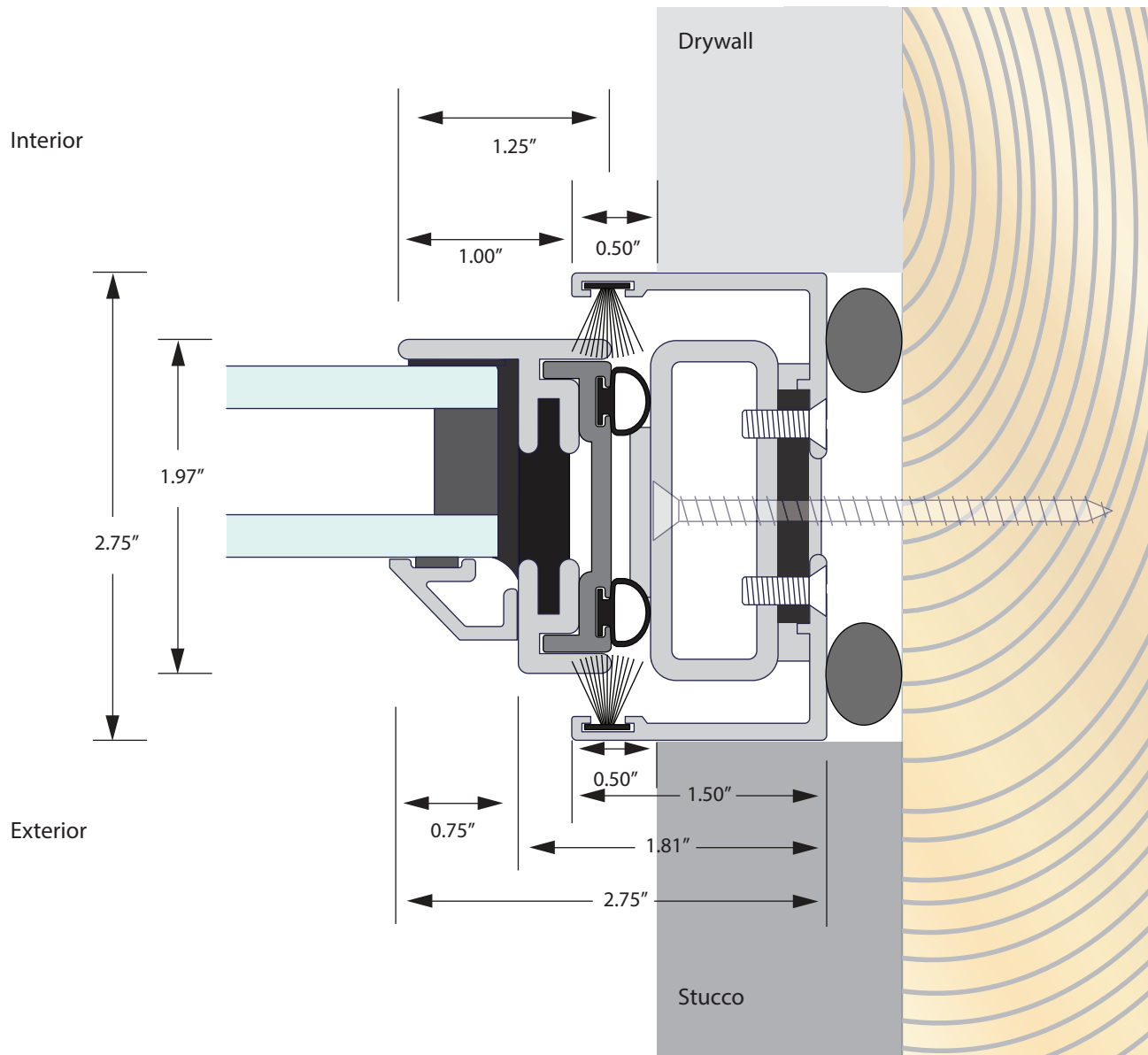
## Sliding Door Interlocks





# THERMAL STEEL EURO SLIDE

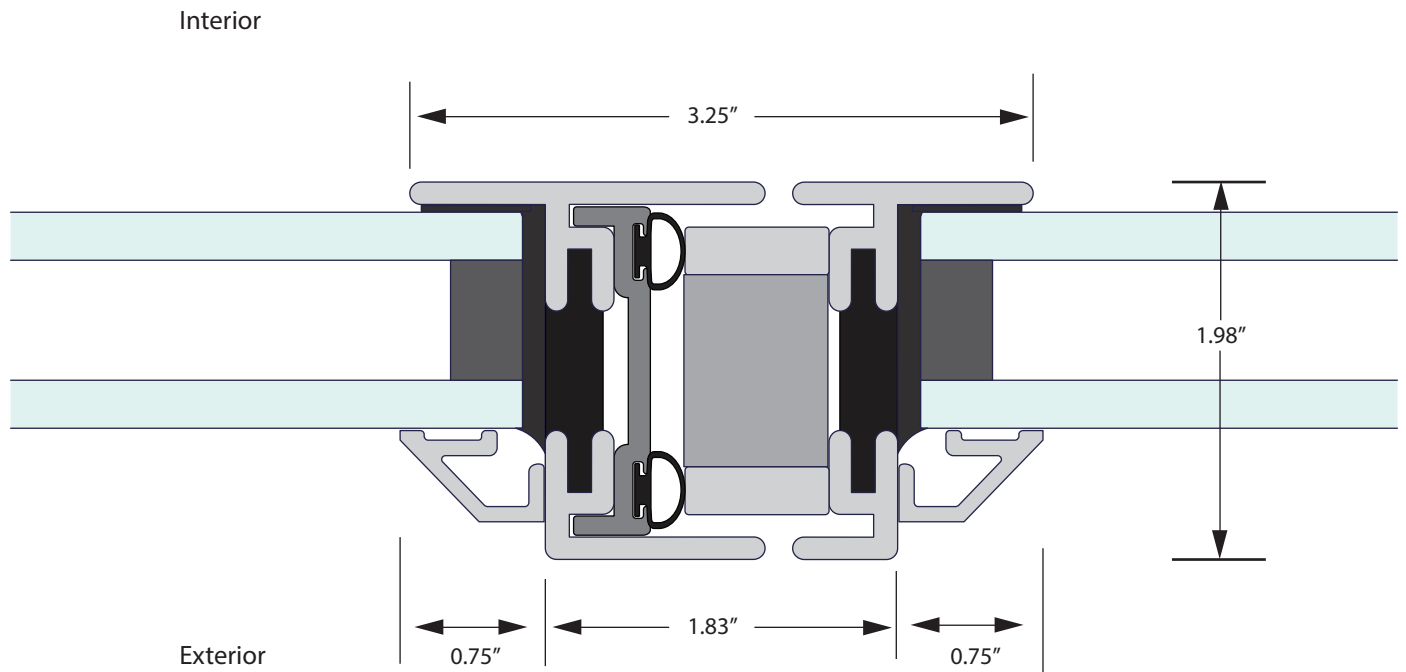
## Slider Active Panel Jamb





# THERMAL STEEL EURO SLIDE

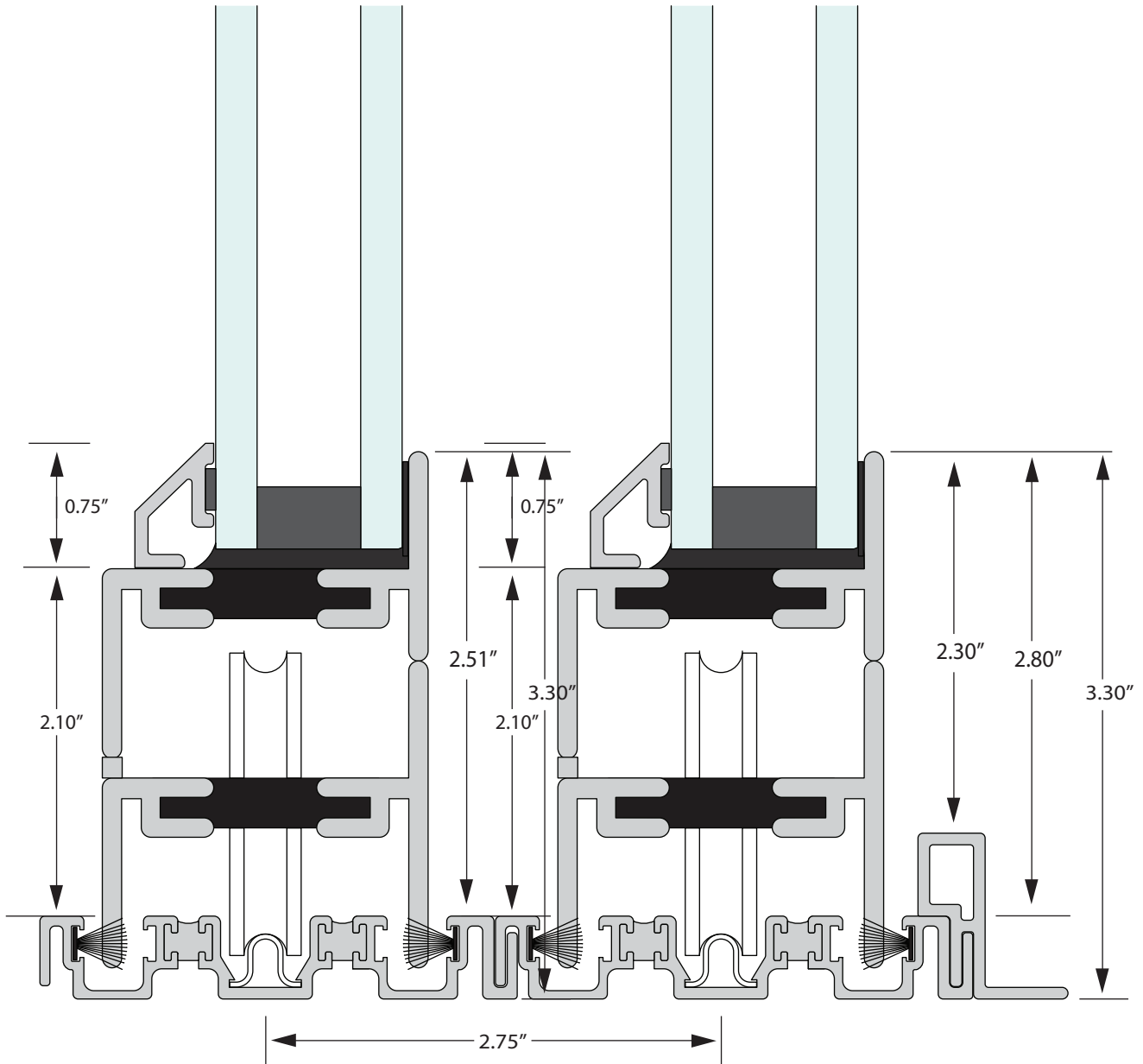
## Sliding Door Meeting Panels





# THERMAL STEEL EURO SLIDE

## Sliding Door Thermally Broken Active

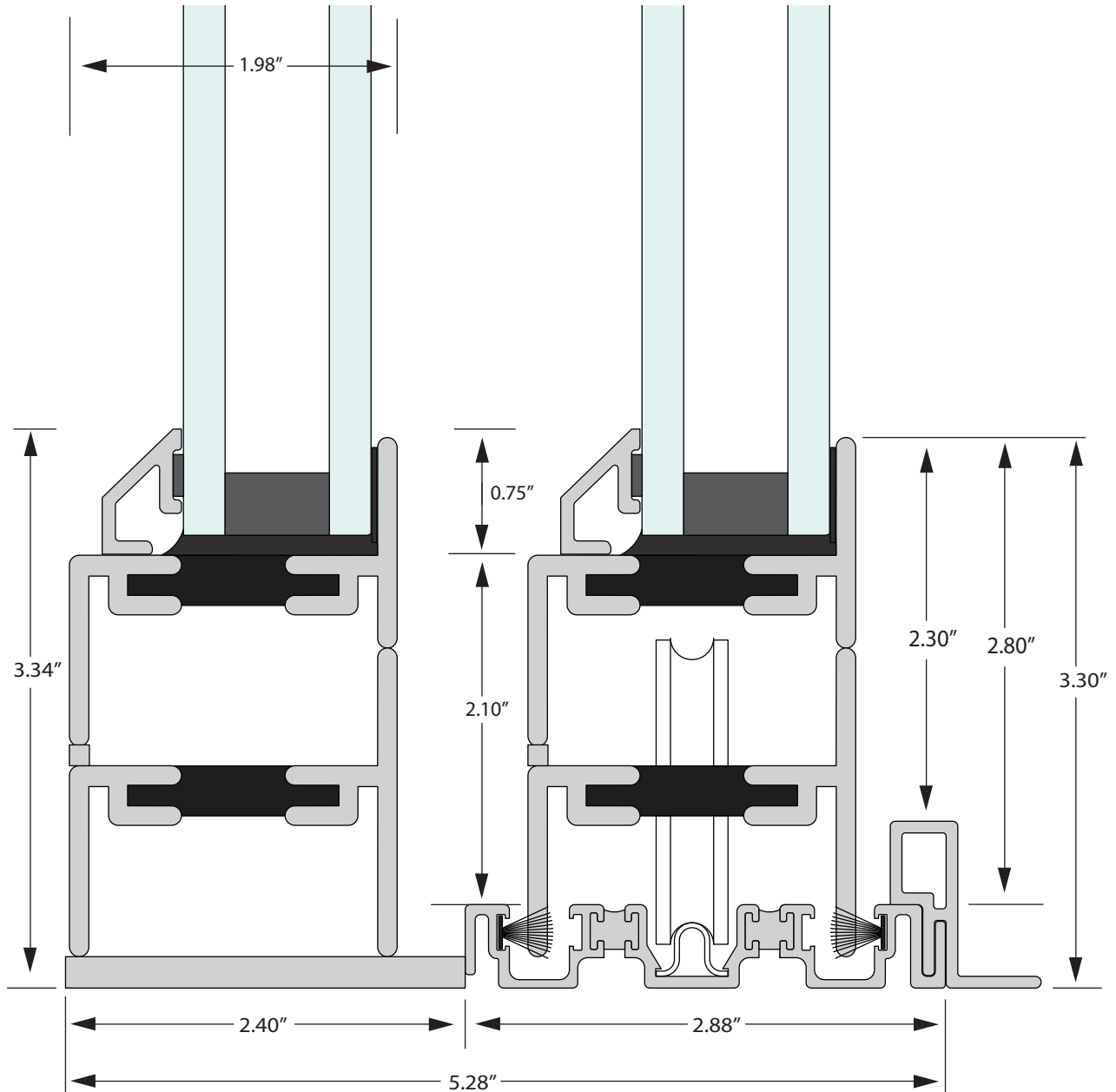






# THERMAL STEEL EURO SLIDE

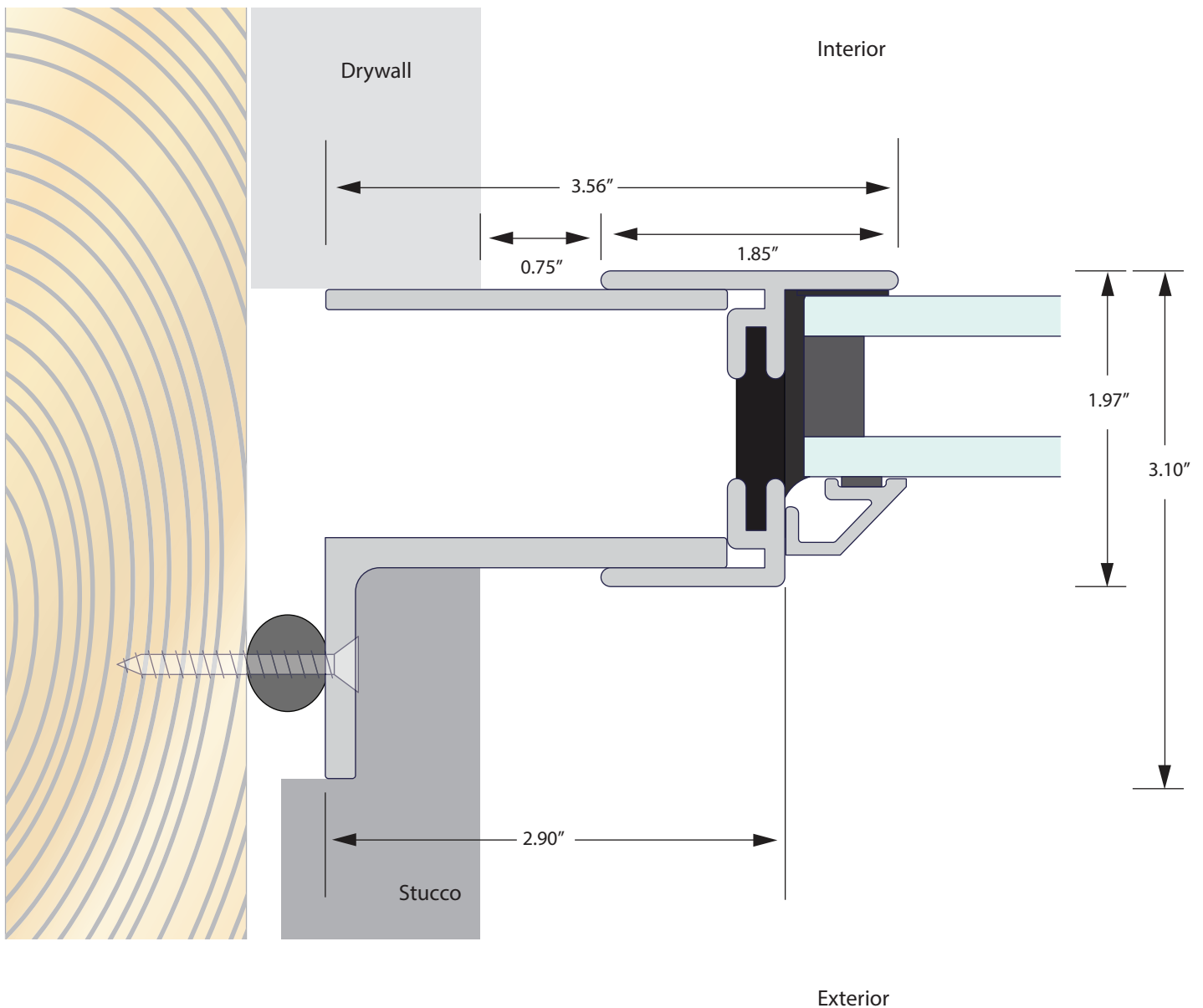
## Sliding Door Thermally Broken Surface Track





# THERMAL STEEL EURO SLIDE

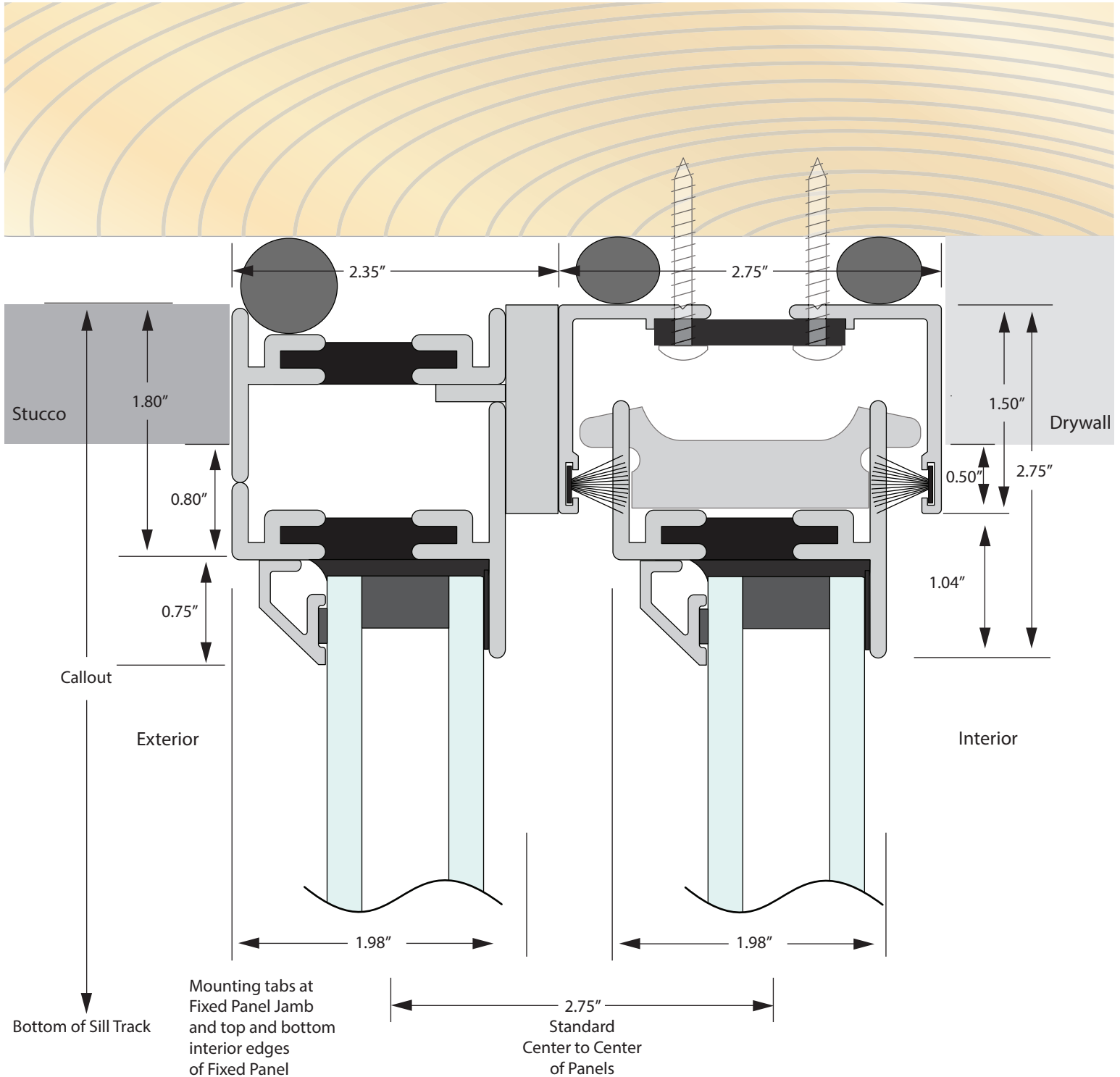
## Slider Fixed Panel Jamb





# THERMAL STEEL EURO SLIDE

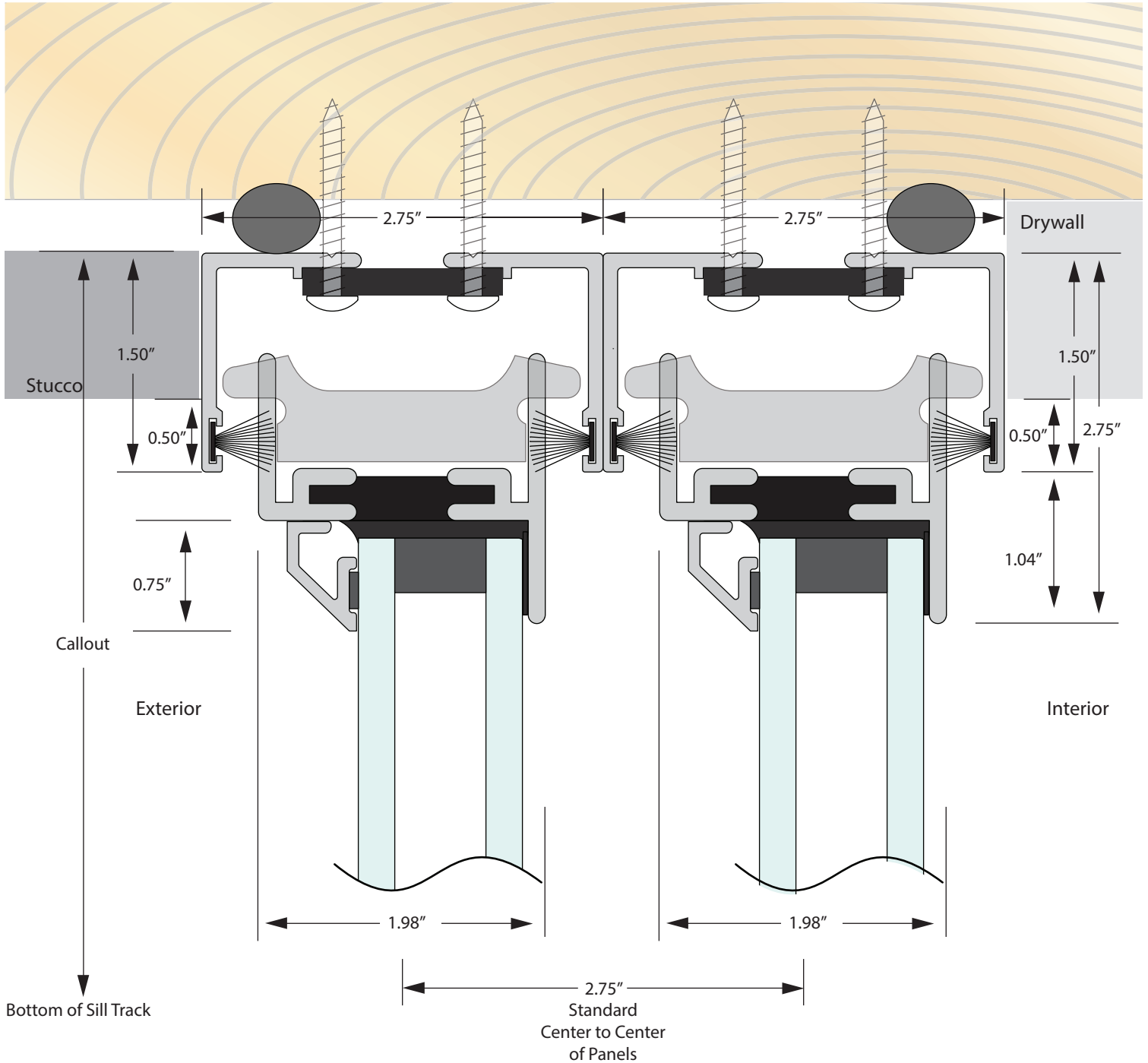
## Sliding Door Head with Fixed Panel





# THERMAL STEEL EURO SLIDE

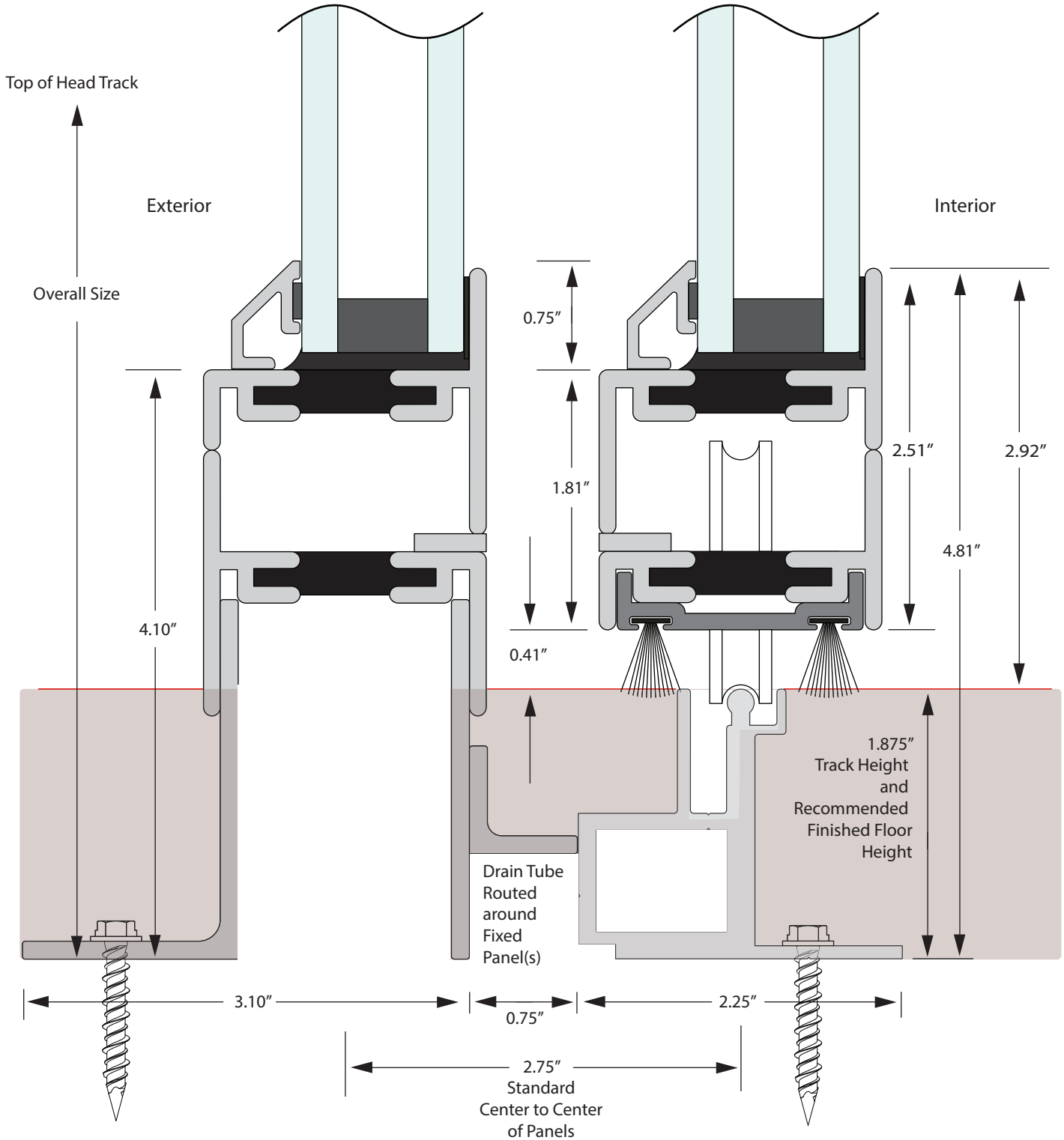
## Sliding Door Head with Pocketing Panels





# THERMAL STEEL EURO SLIDE

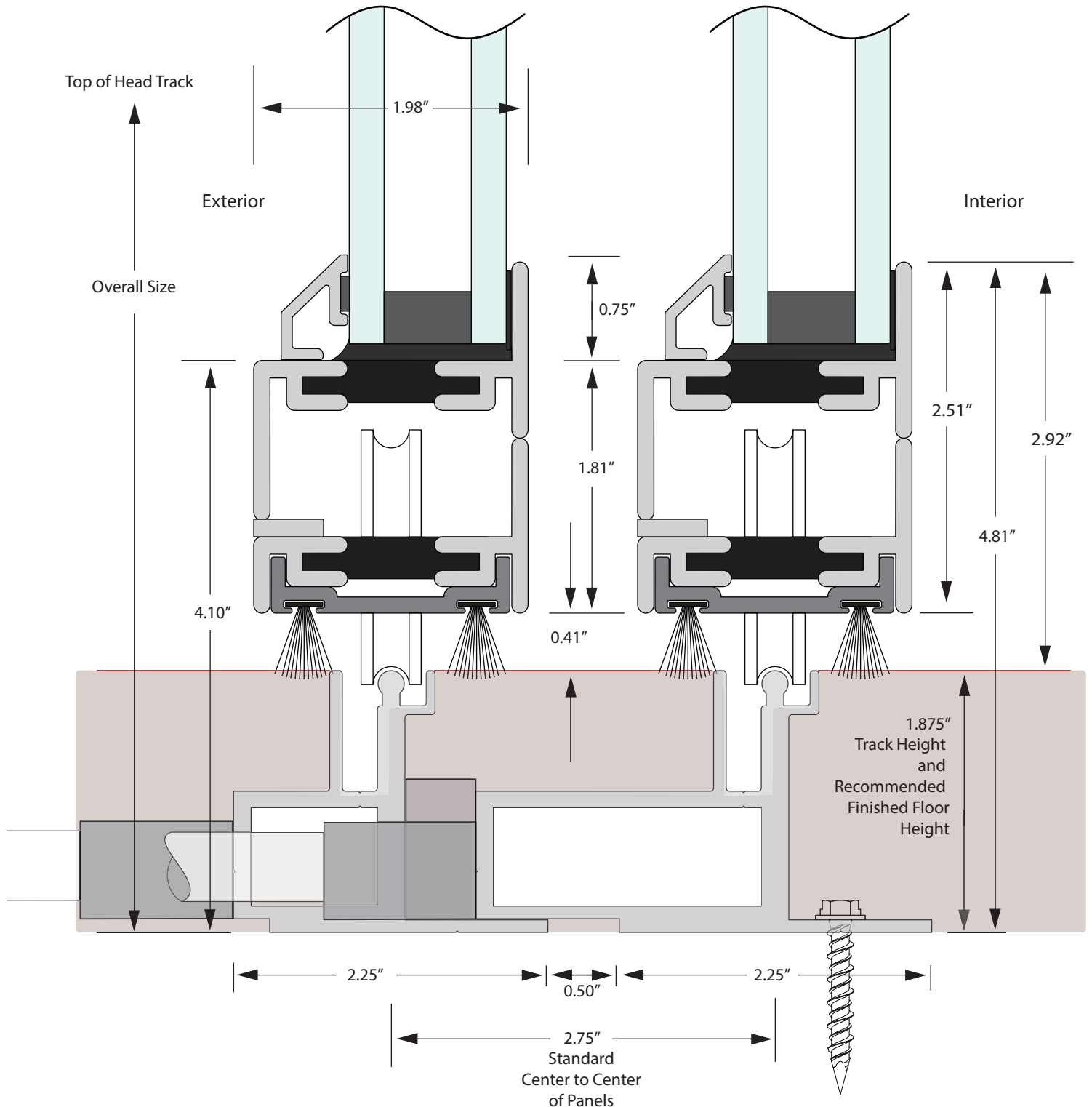
## Sliding Door Draining Track with Fixed Panel





# THERMAL STEEL EURO SLIDE

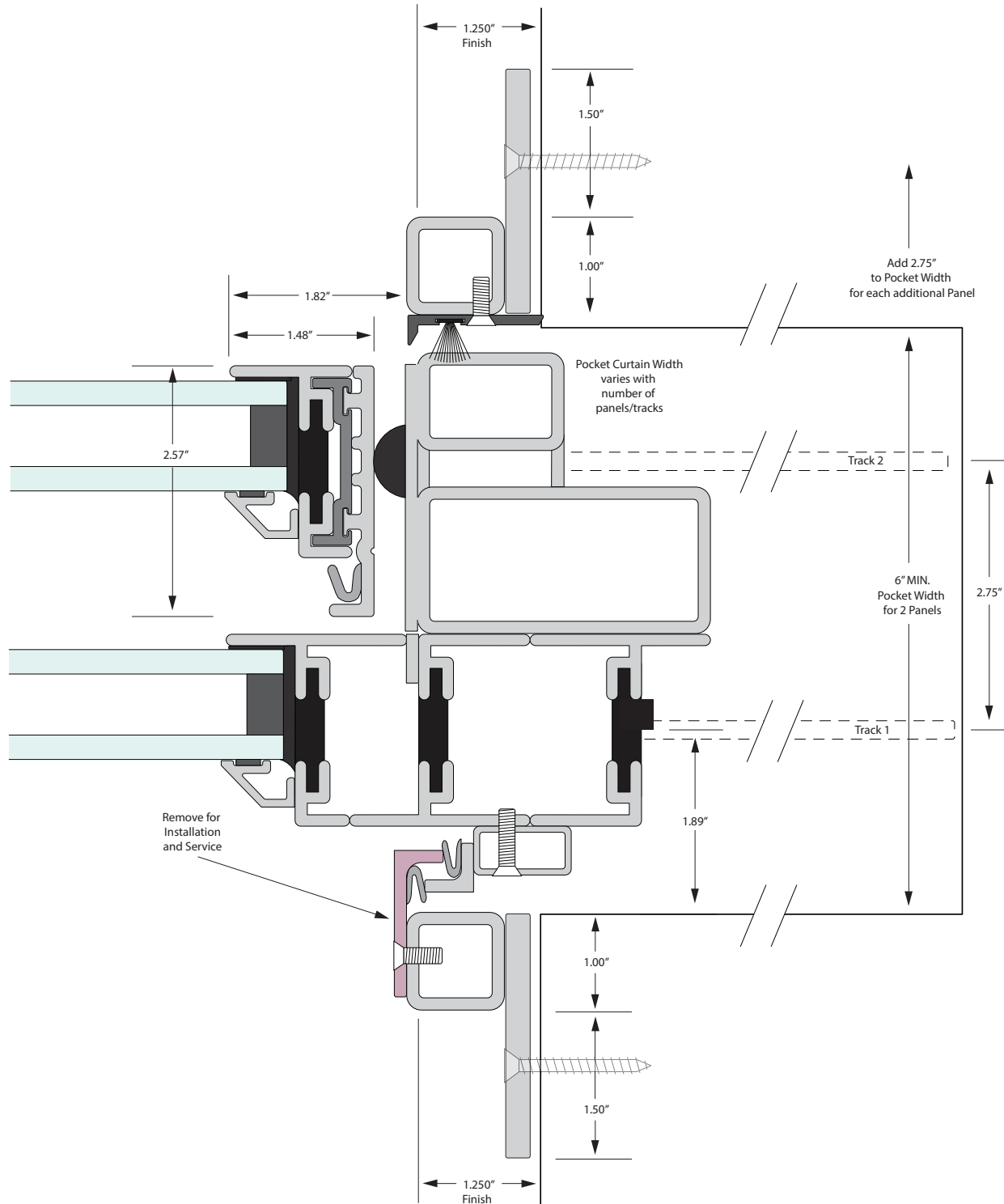
## Sliding Door Draining Tracks - Pocketing





# THERMAL STEEL EURO SLIDE

## Sliding Door Pocket Jamb

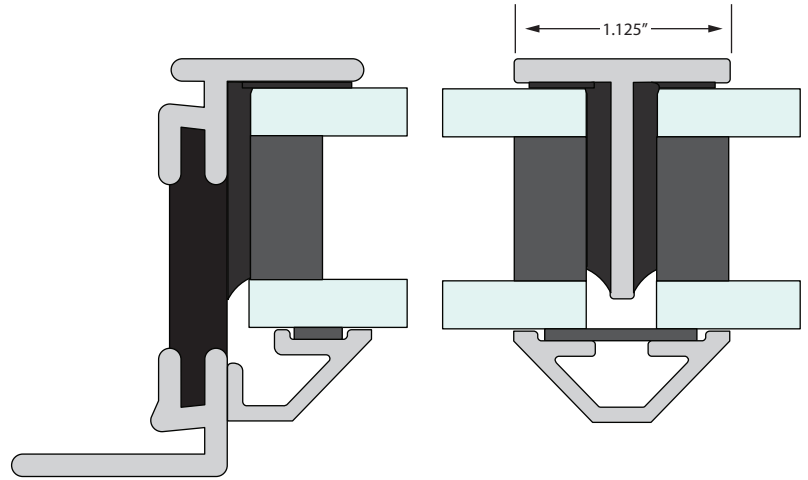




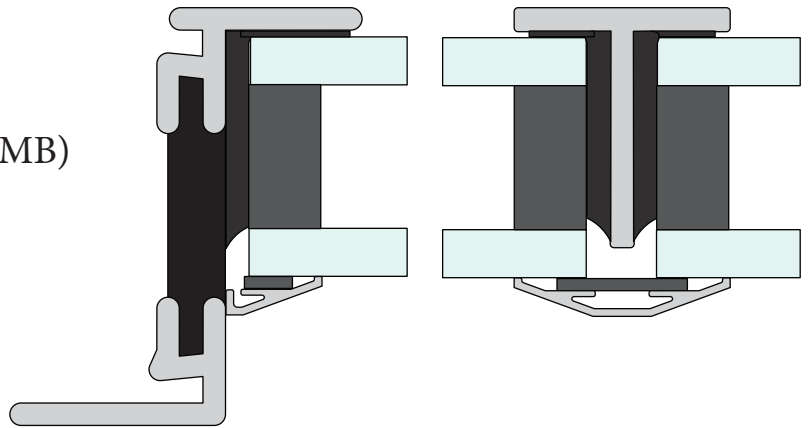
# THERMAL STEEL EURO

## TDL Metal Bead Options

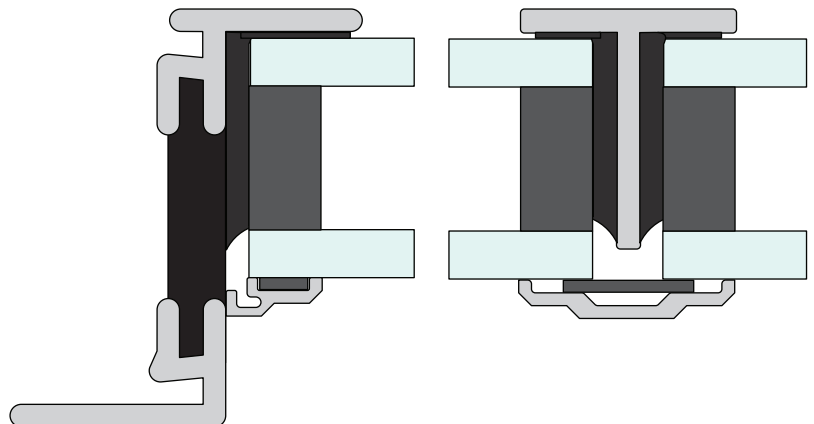
Beveled Metal Bead (BMB)



Low Profile Beveled Metal Bead (LPBMB)



Flat Stepped Metal Bead (FSMB)



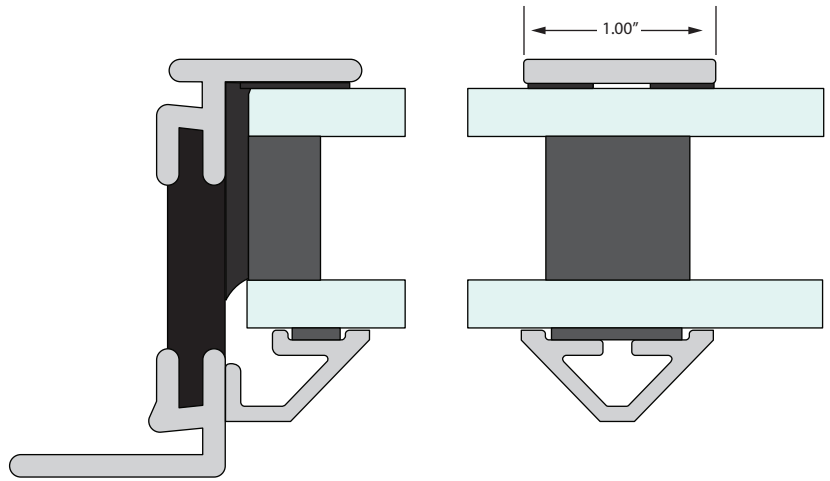




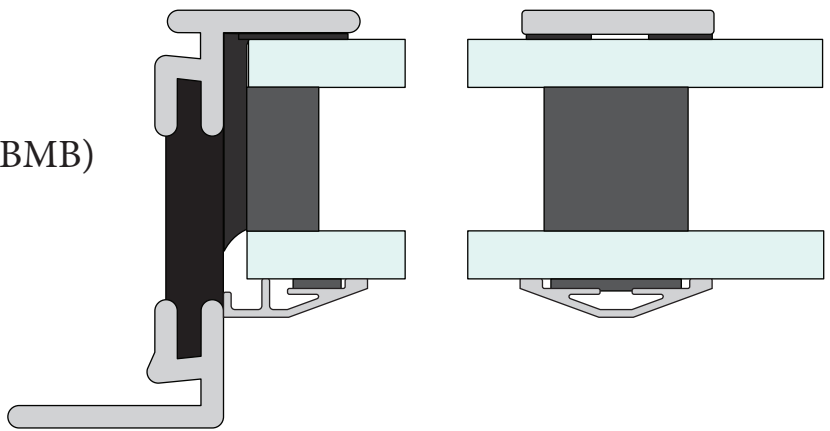
# THERMAL STEEL EURO

## SDL Metal Bead Options

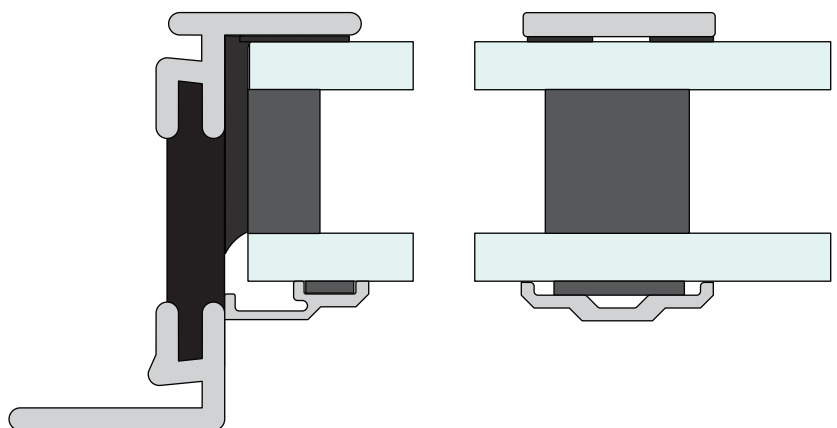
Beveled Metal Bead (BMB)



Low Profile Beveled Metal Bead (LPBMB)



Flat Stepped Metal Bead (FSMB)



# THERMAL STEEL EURO

## General Maximum Size Limit Guidelines

**Fixed Windows . . . . . 144" W or H (65 sq ft max per panel)**

**Casement Windows . . . . . 42" W x 144" H per leaf**


**Awning Windows . . . . . 120" W or H (42 sq ft max)**


**Swing Doors . . . . . 48" W x 144" H per door panel**


**Sliding Systems . . . . . 84" W x 144" H per panel**


**Bifold with Standard Hardware . . . . . 42" W x 126" H per panel**


*For oversize requests, please submit for engineering evaluation and approval.*


Thermal Steel																					
1/4" Temp SN68-1/2" Aluminum Spacer Argon-3/16" IS20 Temp Clear																					
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Sliding Door			Bi-Fold Door					
	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT			
Lite																					
1 Lite	0.28	0.33	0.60	0.38	0.28	0.48	0.32	0.31	0.55	0.32	0.31	0.55	0.32	0.31	0.55	0.32	0.32	0.57	0.30	0.33	0.61
SDL	0.28	0.27	0.48	0.38	0.23	0.40	0.32	0.24	0.42	0.32	0.24	0.42	0.32	0.24	0.42	0.32	0.25	0.44	0.30	0.27	0.47
TDL 1w2h	0.30	0.27	0.48	0.40	0.23	0.40	0.34	0.24	0.42	0.34	0.24	0.42	0.34	0.24	0.42	0.34	0.25	0.44	0.32	0.27	0.47
TDL 1w3h	0.33	0.27	0.48	0.43	0.23	0.40	0.35	0.24	0.42	0.35	0.24	0.42	0.35	0.24	0.42	0.36	0.25	0.44	0.34	0.27	0.47
TDL 1w4h	0.36	0.27	0.48	0.45	0.23	0.40	0.37	0.24	0.42	0.37	0.24	0.42	0.37	0.24	0.42	0.38	0.25	0.44	0.35	0.27	0.47


Thermal Steel																					
1/4" Temp SNX6227-1/2" Aluminum Spacer Argon-3/16" IS20 Temp Clear																					
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Sliding Door			Bi-Fold Door					
	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT			
Lite																					
1 Lite	0.28	0.23	0.54	0.38	0.20	0.44	0.32	0.22	0.50	0.32	0.22	0.50	0.32	0.22	0.50	0.32	0.23	0.52	0.30	0.23	0.55
SDL	0.28	0.20	0.44	0.38	0.17	0.36	0.32	0.18	0.38	0.32	0.18	0.38	0.32	0.18	0.38	0.32	0.18	0.40	0.30	0.19	0.43
TDL 1w2h	0.30	0.20	0.44	0.40	0.17	0.36	0.34	0.18	0.38	0.34	0.18	0.38	0.34	0.18	0.38	0.34	0.18	0.40	0.32	0.19	0.43
TDL 1w3h	0.33	0.20	0.44	0.43	0.17	0.36	0.35	0.18	0.38	0.35	0.18	0.38	0.35	0.18	0.38	0.36	0.18	0.40	0.34	0.19	0.43
TDL 1w4h	0.36	0.20	0.44	0.45	0.17	0.36	0.37	0.18	0.38	0.37	0.18	0.38	0.37	0.18	0.38	0.38	0.18	0.40	0.35	0.19	0.43


Thermal Steel												
1/4" Temp SN68-1/2" Super Spacer Argon-3/16" IS20 Temp Clear												
	Fixed		Casement/ Awning		Out Swing Door		In Swing Door		Sliding Door		Bi-Fold Door	
	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT
Lite												
1 Lite	0.26	0.33	0.60	0.35	0.28	0.48	0.30	0.31	0.55	0.30	0.31	0.57
SDL	0.26	0.27	0.48	0.35	0.23	0.40	0.30	0.24	0.42	0.30	0.25	0.44
TDL 1w2h	0.28	0.27	0.48	0.37	0.23	0.40	0.31	0.24	0.42	0.31	0.25	0.44
TDL 1w3h	0.30	0.27	0.48	0.38	0.23	0.40	0.33	0.24	0.42	0.33	0.25	0.44
TDL 1w4h	0.32	0.27	0.48	0.40	0.23	0.40	0.34	0.24	0.42	0.34	0.25	0.44

Thermal Steel												
1/4" Temp SNX6227-1/2" Super Spacer Argon-3/16" IS20 Temp Clear												
	Fixed		Casement/ Awning		Out Swing Door		In Swing Door		Sliding Door		Bi-Fold Door	
	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT
Lite												
1 Lite	0.26	0.23	0.54	0.35	0.20	0.44	0.30	0.22	0.50	0.30	0.23	0.52
SDL	0.26	0.20	0.44	0.35	0.17	0.36	0.30	0.18	0.38	0.30	0.18	0.40
TDL 1w2h	0.28	0.20	0.44	0.37	0.17	0.36	0.31	0.18	0.38	0.32	0.18	0.40
TDL 1w3h	0.30	0.20	0.44	0.38	0.17	0.36	0.33	0.18	0.38	0.34	0.18	0.40
TDL 1w4h	0.32	0.20	0.44	0.40	0.17	0.36	0.34	0.18	0.38	0.35	0.18	0.40

Thermal Steel																		
1/4" Temp SN68-1/2" Aluminum Spacer Argon-3/16" Temp Clear																		
	Fixed		Casement/ Awning		Out Swing Door		In Swing Door		Sliding Door		Bi-Fold Door							
	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT						
Lite	0.32	0.34	0.62	0.42	0.28	0.50	0.36	0.32	0.57	0.36	0.32	0.57	0.37	0.33	0.59	0.35	0.34	0.63
SDL	0.32	0.28	0.50	0.42	0.24	0.41	0.36	0.25	0.43	0.36	0.18	0.43	0.37	0.26	0.46	0.35	0.27	0.49
TDL 1w2h	0.35	0.28	0.50	0.45	0.24	0.41	0.38	0.25	0.43	0.38	0.25	0.43	0.39	0.26	0.46	0.37	0.27	0.49
TDL 1w3h	0.38	0.28	0.50	0.47	0.24	0.41	0.40	0.25	0.43	0.40	0.25	0.43	0.41	0.26	0.46	0.39	0.27	0.49
TDL 1w4h	0.41	0.28	0.50	0.49	0.24	0.41	0.42	0.25	0.43	0.42	0.25	0.43	0.43	0.26	0.46	0.41	0.27	0.49


Thermal Steel																		
1/4" Temp SNX6227-1/2" Aluminum Spacer Argon-3/16" Temp Clear																		
	Fixed		Casement/ Awning		Out Swing Door		In Swing Door		Sliding Door		Bi-Fold Door							
	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT						
Lite	0.32	0.24	0.56	0.42	0.20	0.45	0.36	0.23	0.52	0.36	0.23	0.54	0.36	0.23	0.54	0.34	0.24	0.57
SDL	0.32	0.20	0.45	0.42	0.17	0.37	0.36	0.18	0.39	0.36	0.18	0.39	0.36	0.19	0.41	0.34	0.19	0.44
TDL 1w2h	0.35	0.20	0.45	0.45	0.17	0.37	0.38	0.18	0.39	0.38	0.18	0.39	0.38	0.19	0.41	0.36	0.19	0.44
TDL 1w3h	0.38	0.20	0.45	0.47	0.17	0.37	0.40	0.18	0.39	0.40	0.18	0.39	0.40	0.19	0.41	0.38	0.19	0.44
TDL 1w4h	0.41	0.20	0.45	0.49	0.17	0.37	0.42	0.18	0.39	0.42	0.18	0.39	0.42	0.19	0.41	0.40	0.19	0.44


Thermal Steel																			
1/4" Temp SN68-1/2" Super Spacer Argon-3/16" Temp Clear																			
	Fixed		Casement/ Awning		Out Swing Door		In Swing Door		Sliding Door		Bi-Fold Door								
	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT							
Lite	0.30	0.34	0.62	0.39	0.28	0.50	0.34	0.32	0.57	0.34	0.32	0.57	0.35	0.33	0.59	0.33	0.34	0.63	
SDL	0.30	0.28	0.50	0.39	0.24	0.41	0.34	0.25	0.43	0.34	0.25	0.43	0.35	0.33	0.26	0.46	0.33	0.27	0.49
TDL 1w2h	0.32	0.28	0.50	0.40	0.24	0.41	0.36	0.25	0.43	0.36	0.25	0.43	0.37	0.26	0.46	0.34	0.27	0.49	
TDL 1w3h	0.34	0.28	0.50	0.42	0.24	0.41	0.37	0.25	0.43	0.37	0.25	0.43	0.38	0.26	0.46	0.36	0.27	0.49	
TDL 1w4h	0.36	0.28	0.50	0.44	0.24	0.41	0.38	0.25	0.43	0.38	0.25	0.43	0.39	0.26	0.46	0.37	0.27	0.49	


Thermal Steel																		
1/4" Temp SNX6227-1/2" Super Spacer Argon-3/16" Temp Clear																		
	Fixed		Casement/ Awning		Out Swing Door		In Swing Door		Sliding Door		Bi-Fold Door							
	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT						
Lite	0.30	0.24	0.56	0.39	0.20	0.45	0.34	0.23	0.52	0.34	0.23	0.54	0.34	0.23	0.54	0.32	0.24	0.57
SDL	0.30	0.20	0.45	0.39	0.17	0.37	0.34	0.18	0.39	0.34	0.18	0.39	0.34	0.19	0.41	0.32	0.19	0.44
TDL 1w2h	0.32	0.20	0.45	0.40	0.17	0.37	0.36	0.18	0.39	0.36	0.18	0.39	0.35	0.19	0.41	0.33	0.19	0.44
TDL 1w3h	0.34	0.20	0.45	0.42	0.17	0.37	0.37	0.18	0.39	0.37	0.18	0.39	0.36	0.19	0.41	0.35	0.19	0.44
TDL 1w4h	0.36	0.20	0.45	0.44	0.17	0.37	0.38	0.18	0.39	0.38	0.18	0.39	0.38	0.19	0.41	0.36	0.19	0.44




**PPG**

Thermal Steel																		
3/16" Temp SB60-1/2" Super Spacer Argon-3/16" I89 Temp Clear																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Sliding Door			Bi-Fold Door		
	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT
Lite																		
1 Lite	0.25	0.35	0.63	0.35	0.29	0.51	0.30	0.33	0.58	0.29	0.33	0.58	0.31	0.34	0.61	0.28	0.35	0.64
SDL	0.25	0.29	0.51	0.35	0.25	0.42	0.30	0.26	0.44	0.29	0.26	0.44	0.31	0.27	0.47	0.28	0.28	0.50
TDL 1w2h	0.27	0.29	0.51	0.36	0.25	0.42	0.31	0.26	0.44	0.31	0.26	0.44	0.32	0.27	0.47	0.29	0.28	0.50
TDL 1w3h	0.29	0.29	0.51	0.38	0.25	0.42	0.32	0.26	0.44	0.32	0.26	0.44	0.33	0.27	0.47	0.31	0.28	0.50
TDL 1w4h	0.31	0.29	0.51	0.40	0.25	0.42	0.33	0.26	0.44	0.34	0.26	0.44	0.35	0.27	0.47	0.32	0.28	0.50


Thermal Steel																		
3/16" Temp S70-1/2" Super Spacer Argon-3/16" I89 Temp Clear																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Sliding Door			Bi-Fold Door		
	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT
Lite																		
1 Lite	0.25	0.25	0.56	0.34	0.21	0.45	0.29	0.23	0.52	0.29	0.23	0.52	0.30	0.24	0.54	0.28	0.25	0.57
SDL	0.25	0.20	0.45	0.34	0.18	0.37	0.29	0.18	0.39	0.29	0.18	0.39	0.30	0.19	0.41	0.28	0.20	0.44
TDL 1w2h	0.27	0.20	0.45	0.36	0.18	0.37	0.30	0.18	0.39	0.31	0.18	0.39	0.31	0.19	0.41	0.29	0.20	0.44
TDL 1w3h	0.29	0.20	0.45	0.38	0.18	0.37	0.32	0.18	0.39	0.32	0.18	0.39	0.33	0.19	0.41	0.31	0.20	0.44
TDL 1w4h	0.31	0.20	0.45	0.39	0.18	0.37	0.33	0.18	0.39	0.33	0.18	0.39	0.34	0.19	0.41	0.32	0.20	0.44


Thermal Steel																		
3/16" Temp SB60-1/2" Aluminum Spacer Argon-3/16" I89 Temp Clear																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Sliding Door			Bi-Fold Door		
	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT
Lite																		
1 Lite	0.27	0.35	0.63	0.38	0.29	0.51	0.31	0.33	0.58	0.31	0.33	0.58	0.33	0.34	0.61	0.29	0.35	0.64
SDL	0.27	0.29	0.51	0.38	0.25	0.42	0.31	0.26	0.44	0.31	0.26	0.44	0.33	0.27	0.47	0.29	0.28	0.50
TDL 1w2h	0.30	0.29	0.51	0.40	0.25	0.42	0.33	0.26	0.44	0.33	0.26	0.44	0.35	0.27	0.47	0.31	0.28	0.50
TDL 1w3h	0.32	0.29	0.51	0.42	0.25	0.42	0.35	0.26	0.44	0.35	0.26	0.44	0.37	0.27	0.47	0.33	0.28	0.50
TDL 1w4h	0.35	0.29	0.51	0.44	0.25	0.42	0.36	0.26	0.44	0.36	0.26	0.44	0.38	0.27	0.47	0.35	0.28	0.50

Thermal Steel																		
3/16" Temp S70-1/2" Aluminum Spacer Argon-3/16" I89 Temp Clear																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Sliding Door			Bi-Fold Door		
	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT
Lite																		
1 Lite	0.27	0.25	0.56	0.37	0.21	0.45	0.31	0.23	0.52	0.31	0.23	0.52	0.32	0.24	0.54	0.29	0.25	0.57
SDL	0.27	0.20	0.45	0.37	0.18	0.37	0.31	0.18	0.39	0.31	0.18	0.39	0.32	0.19	0.41	0.29	0.20	0.44
TDL 1w2h	0.29	0.20	0.45	0.40	0.18	0.37	0.33	0.18	0.39	0.32	0.18	0.39	0.34	0.19	0.41	0.31	0.20	0.44
TDL 1w3h	0.32	0.20	0.45	0.42	0.18	0.37	0.34	0.18	0.39	0.34	0.18	0.39	0.36	0.19	0.41	0.33	0.20	0.44
TDL 1w4h	0.35	0.20	0.45	0.44	0.18	0.37	0.36	0.18	0.39	0.36	0.18	0.39	0.38	0.19	0.41	0.35	0.20	0.44



**PPG**


Thermal Steel																		
Triple Glaze 3/16" Temp SB60-43/125" Super Spacer Argon-3/16" SB60-43/125" Super Spacer Argon-3/16" Temp Clear																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Sliding Door			Bi-Fold Door		
	Lite	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC
1 Lite	0.21	0.29	0.52	0.31	0.24	0.42	0.27	0.27	0.50	0.26	0.27	0.47	0.26	0.28	0.50	0.24	0.29	0.52
SDL	0.21	0.24	0.42	0.31	0.20	0.34	0.28	0.21	0.36	0.27	0.21	0.36	0.27	0.22	0.38	0.25	0.23	0.41
TDL 1w2h	0.25	0.24	0.42	0.34	0.20	0.34	0.28	0.21	0.36	0.28	0.21	0.36	0.28	0.22	0.38	0.26	0.23	0.41
TDL 1w3h	0.25	0.24	0.42	0.34	0.20	0.34	0.28	0.21	0.36	0.29	0.21	0.36	0.29	0.22	0.38	0.27	0.23	0.41
TDL 1w4h	0.25	0.24	0.42	0.36	0.20	0.34	0.30	0.21	0.36	0.31	0.21	0.36	0.31	0.22	0.38	0.29	0.23	0.41


Thermal Steel																		
Triple Glaze 3/16" Temp SB70-43/125" Super Spacer Argon-3/16" SB70-43/125" Super Spacer Argon-3/16" Temp Clear																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Sliding Door			Bi-Fold Door		
	Lite	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC
1 Lite	0.21	0.19	0.41	0.31	0.17	0.33	0.27	0.18	0.47	0.26	0.18	0.37	0.26	0.19	0.39	0.24	0.19	0.41
SDL	0.21	0.16	0.33	0.31	0.14	0.27	0.27	0.15	0.29	0.26	0.15	0.29	0.27	0.15	0.30	0.25	0.16	0.32
TDL 1w2h	0.24	0.16	0.33	0.34	0.14	0.27	0.28	0.15	0.29	0.27	0.15	0.29	0.28	0.15	0.30	0.26	0.16	0.32
TDL 1w3h	0.24	0.16	0.33	0.34	0.14	0.27	0.28	0.15	0.29	0.29	0.15	0.29	0.29	0.15	0.30	0.27	0.16	0.32
TDL 1w4h	0.25	0.16	0.33	0.36	0.14	0.27	0.29	0.15	0.29	0.31	0.15	0.29	0.31	0.15	0.30	0.29	0.16	0.32







## Cardinal

Thermal Steel																		
3/16" Temp 270-1/2" Super Spacer Argon-3/16" I89 Temp Clear																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Sliding Door			Bi-Fold Door		
	Lite	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC
1 Lite	0.25	0.32	0.61	0.35	0.27	0.49	0.30	0.30	0.56	0.30	0.30	0.56	0.31	0.31	0.58	0.29	0.32	0.62
SDL	0.25	0.27	0.49	0.35	0.23	0.40	0.30	0.24	0.43	0.30	0.24	0.43	0.31	0.25	0.45	0.29	0.26	0.48
TDL 1w2h	0.27	0.27	0.49	0.36	0.23	0.40	0.31	0.24	0.43	0.31	0.24	0.43	0.32	0.25	0.45	0.30	0.26	0.48
TDL 1w3h	0.29	0.27	0.49	0.38	0.23	0.40	0.32	0.24	0.43	0.32	0.24	0.43	0.33	0.25	0.45	0.31	0.26	0.48
TDL 1w4h	0.31	0.27	0.49	0.40	0.23	0.40	0.33	0.24	0.43	0.34	0.24	0.43	0.35	0.25	0.45	0.33	0.26	0.48


Thermal Steel																		
3/16" Temp 366-1/2" Super Spacer Argon-3/16" I89 Temp Clear																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Sliding Door			Bi-Fold Door		
	Lite	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC
1 Lite	0.25	0.25	0.56	0.34	0.21	0.45	0.29	0.23	0.52	0.29	0.23	0.52	0.30	0.24	0.54	0.28	0.25	0.57
SDL	0.25	0.20	0.45	0.34	0.18	0.37	0.29	0.18	0.40	0.29	0.18	0.40	0.30	0.19	0.42	0.28	0.20	0.44
TDL 1w2h	0.27	0.20	0.45	0.36	0.18	0.37	0.30	0.18	0.40	0.31	0.18	0.40	0.31	0.19	0.42	0.29	0.20	0.44
TDL 1w3h	0.29	0.20	0.45	0.38	0.18	0.37	0.32	0.18	0.40	0.32	0.18	0.40	0.33	0.19	0.42	0.31	0.20	0.44
TDL 1w4h	0.31	0.20	0.45	0.39	0.18	0.37	0.33	0.18	0.40	0.33	0.18	0.40	0.34	0.19	0.42	0.32	0.20	0.44


Thermal Steel																		
3/16" Temp 270-1/2" Aluminum Spacer Argon-3/16" I89 Temp Clear																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Sliding Door			Bi-Fold Door		
	Lite	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC
1 Lite	0.27	0.32	0.61	0.38	0.27	0.49	0.31	0.30	0.56	0.31	0.30	0.56	0.32	0.31	0.58	0.30	0.32	0.62
SDL	0.27	0.27	0.49	0.38	0.23	0.40	0.31	0.24	0.43	0.31	0.24	0.43	0.32	0.25	0.45	0.30	0.26	0.48
TDL 1w2h	0.30	0.27	0.49	0.40	0.23	0.40	0.33	0.24	0.43	0.33	0.24	0.43	0.34	0.25	0.45	0.32	0.26	0.48
TDL 1w3h	0.32	0.27	0.49	0.42	0.23	0.40	0.35	0.24	0.43	0.35	0.24	0.43	0.36	0.25	0.45	0.34	0.26	0.48
TDL 1w4h	0.35	0.27	0.49	0.44	0.23	0.40	0.36	0.24	0.43	0.36	0.24	0.43	0.38	0.25	0.45	0.34	0.26	0.48


Thermal Steel																		
3/16" Temp 366-1/2" Aluminum Spacer Argon-3/16" I89 Temp Clear																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Sliding Door			Bi-Fold Door		
	Lite	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC
1 Lite	0.27	0.25	0.56	0.37	0.21	0.45	0.31	0.23	0.52	0.31	0.23	0.52	0.32	0.24	0.54	0.29	0.25	0.57
SDL	0.27	0.20	0.45	0.37	0.18	0.37	0.31	0.18	0.39	0.31	0.18	0.40	0.32	0.19	0.42	0.29	0.20	0.44
TDL 1w2h	0.29	0.20	0.45	0.40	0.18	0.37	0.33	0.18	0.39	0.32	0.18	0.40	0.34	0.19	0.42	0.31	0.20	0.44
TDL 1w3h	0.32	0.20	0.45	0.42	0.18	0.37	0.34	0.18	0.39	0.34	0.18	0.40	0.36	0.19	0.42	0.33	0.20	0.44
TDL 1w4h	0.35	0.20	0.45	0.44	0.18	0.37	0.36	0.18	0.39	0.36	0.18	0.40	0.37	0.19	0.42	0.35	0.20	0.44




# Cardinal

Thermal Steel																		
3/16" Temp 270-1/2" Super Spacer Argon-3/16" Temp Clear																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Sliding Door			Bi-Fold Door		
	Lite	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC
1 Lite	0.30	0.33	0.62	0.39	0.27	0.50	0.34	0.31	0.57	0.34	0.31	0.57	0.35	0.32	0.59	0.33	0.33	0.63
SDL	0.30	0.27	0.50	0.39	0.23	0.41	0.34	0.24	0.43	0.34	0.24	0.43	0.35	0.25	0.46	0.33	0.26	0.49
TDL 1w2h	0.32	0.27	0.50	0.40	0.23	0.41	0.35	0.24	0.43	0.35	0.24	0.43	0.37	0.25	0.46	0.34	0.26	0.49
TDL 1w3h	0.34	0.27	0.50	0.42	0.23	0.41	0.37	0.24	0.43	0.37	0.24	0.43	0.38	0.25	0.46	0.36	0.26	0.49
TDL 1w4h	0.36	0.27	0.50	0.44	0.23	0.41	0.38	0.24	0.43	0.38	0.24	0.43	0.39	0.25	0.46	0.37	0.26	0.49


Thermal Steel																		
3/16" Temp 366-1/2" Super Spacer Argon-3/16" Temp Clear																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Sliding Door			Bi-Fold Door		
	Lite	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC
1 Lite	0.30	0.25	0.57	0.38	0.21	0.46	0.34	0.23	0.53	0.34	0.23	0.53	0.34	0.24	0.55	0.32	0.25	0.58
SDL	0.30	0.21	0.46	0.38	0.18	0.38	0.34	0.19	0.40	0.34	0.19	0.40	0.34	0.19	0.42	0.32	0.20	0.45
TDL 1w2h	0.32	0.21	0.46	0.40	0.18	0.38	0.36	0.19	0.40	0.35	0.19	0.40	0.35	0.19	0.42	0.33	0.20	0.45
TDL 1w3h	0.34	0.21	0.46	0.41	0.18	0.38	0.37	0.19	0.40	0.36	0.19	0.40	0.36	0.19	0.42	0.35	0.20	0.45
TDL 1w4h	0.36	0.21	0.46	0.43	0.18	0.38	0.38	0.19	0.40	0.38	0.19	0.40	0.38	0.19	0.42	0.36	0.20	0.45


Thermal Steel																		
3/16" Temp 270-1/2" Aluminum Spacer Argon-3/16" Temp Clear																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Sliding Door			Bi-Fold Door		
	Lite	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC
1 Lite	0.32	0.33	0.62	0.42	0.27	0.50	0.36	0.31	0.57	0.36	0.31	0.57	0.37	0.32	0.59	0.35	0.33	0.63
SDL	0.32	0.27	0.50	0.42	0.23	0.41	0.36	0.24	0.43	0.36	0.24	0.43	0.37	0.25	0.46	0.35	0.26	0.49
TDL 1w2h	0.35	0.27	0.50	0.44	0.23	0.41	0.38	0.24	0.43	0.38	0.24	0.43	0.39	0.25	0.46	0.37	0.26	0.49
TDL 1w3h	0.38	0.27	0.50	0.47	0.23	0.41	0.40	0.24	0.43	0.40	0.24	0.43	0.41	0.25	0.46	0.39	0.26	0.49
TDL 1w4h	0.41	0.27	0.50	0.49	0.23	0.41	0.42	0.24	0.43	0.42	0.24	0.43	0.43	0.25	0.46	0.41	0.26	0.49

Thermal Steel																		
3/16" Temp 366-1/2" Aluminum Spacer Argon-3/16" Temp Clear																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Sliding Door			Bi-Fold Door		
	Lite	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC
1 Lite	0.32	0.25	0.57	0.42	0.21	0.46	0.36	0.23	0.53	0.35	0.23	0.53	0.36	0.24	0.55	0.34	0.25	0.58
SDL	0.32	0.21	0.46	0.42	0.18	0.38	0.36	0.19	0.40	0.35	0.19	0.40	0.36	0.19	0.42	0.34	0.20	0.45
TDL 1w2h	0.35	0.21	0.46	0.44	0.18	0.38	0.37	0.19	0.40	0.37	0.19	0.40	0.38	0.19	0.42	0.36	0.20	0.45
TDL 1w3h	0.37	0.21	0.46	0.46	0.18	0.38	0.39	0.19	0.40	0.39	0.19	0.40	0.40	0.19	0.42	0.38	0.20	0.45
TDL 1w4h	0.40	0.21	0.46	0.49	0.18	0.38	0.41	0.19	0.40	0.41	0.19	0.40	0.42	0.19	0.42	0.40	0.20	0.45



# Cardinal

Thermal Steel																		
Triple Glaze 3/16" Temp 272-43/125" Aluminum Spacer Argon-3/16" 272-43/125" Aluminum Spacer Argon-3/16" Temp Clear																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Sliding Door			Bi-Fold Door		
	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT
Lite	0.24	0.29	0.50	0.34	0.25	0.41	0.28	0.27	0.46	0.28	0.27	0.46	0.28	0.28	0.48	0.26	0.30	0.51
SDL	0.24	0.24	0.41	0.34	0.21	0.33	0.28	0.22	0.35	0.28	0.22	0.35	0.29	0.23	0.37	0.27	0.24	0.40
TDL 1w2h	0.29	0.24	0.41	0.39	0.21	0.33	0.32	0.22	0.35	0.30	0.22	0.35	0.30	0.23	0.37	0.28	0.24	0.40
TDL 1w3h	0.30	0.24	0.41	0.39	0.21	0.33	0.32	0.22	0.35	0.32	0.22	0.35	0.33	0.23	0.37	0.30	0.24	0.40
TDL 1w4h	0.30	0.24	0.41	0.43	0.21	0.33	0.34	0.22	0.35	0.34	0.22	0.35	0.35	0.23	0.37	0.32	0.24	0.40

Thermal Steel																		
Triple Glaze 3/16" Temp 272-43/125" Super Spacer Argon-3/16" 272-43/125" Super Spacer Argon-3/16" Temp Clear																		
	Fixed			Casement/ Awning			Out Swing Door			In Swing Door			Sliding Door			Bi Fold Door		
	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT	U Factor	SHGC	VT
1 Lite	0.21	0.29	0.50	0.31	0.25	0.41	0.26	0.27	0.46	0.26	0.27	0.46	0.26	0.28	0.48	0.24	0.30	0.51
SDL	0.21	0.24	0.41	0.31	0.21	0.33	0.27	0.22	0.35	0.27	0.22	0.35	0.27	0.23	0.37	0.25	0.24	0.40
TDL 1w2h	0.25	0.24	0.41	0.34	0.21	0.33	0.28	0.22	0.35	0.28	0.22	0.35	0.28	0.23	0.37	0.26	0.24	0.40
TDL 1w3h	0.25	0.24	0.41	0.34	0.21	0.33	0.28	0.22	0.35	0.29	0.22	0.35	0.29	0.23	0.37	0.27	0.24	0.40
TDL 1w4h	0.25	0.24	0.41	0.36	0.21	0.33	0.30	0.22	0.35	0.31	0.22	0.35	0.31	0.23	0.37	0.29	0.24	0.40

# Bid Sheet



## EUROLINE STEEL WINDOWS & DOORS

<b>DEALER:</b>		<b>ASSOCIATE:</b>	<b>Project Name:</b>							
<b>DATE:</b>		<b>PHONE:</b>	<b>Address:</b>							
<b>EMAIL:</b>		<b>EXPECTED CLOSE:</b>	<b>City, State, Zip</b>							
<b>Architect Name</b>		<b>PHONE:</b>	<b>EMAIL:</b>							
<b>Builder Name</b>		<b>PHONE:</b>	<b>EMAIL:</b>							
<b>Bid Type:</b>		<input type="radio"/> FORMAL <input type="radio"/> BUDGETARY (DEFAULT/STANDARD OPTIONS ONLY)	<input type="radio"/> RESIDENTIAL <input type="radio"/> COMMERCIAL	<b>Lead Source</b>	<input type="radio"/> EUROLINE <input type="radio"/> DEALER <input type="radio"/> ARCHITECT					
<b>Global Values</b>										
<b>Series Type:</b>		<b>Glass Coating:</b>		<b>Door Hardware:</b>						
True Steel 1000 Series		Temp SN68 LowE		Baldwin BW04 Mortise with Escutcheon						
<b>Color:</b>		<b>IG Configuration</b>		<b>Window Hardware:</b>						
Euro Bronze		Dual Pane - Single /Single		Standard Push Out						
<b>Muntins/T-bar</b>		<b>Spacer fill/ Insulation</b>		<b>Window Lock:</b>						
1 Lite (no dividers)		Argon		Standard Cam Lever						
<b>Exterior Bead Option:</b>		<b>Kick Panel:</b>		<b>Door Lock Box:</b>						
Beveled Metal Bead		None		Abbreviated Notched Glass						
Item	PLAN DETAIL		CALLOUT SIZE (in Inches W x H)	HANDING RHA (Right Hand Active)	Lites per Sash WxH	Special Notes or Different Series than Global Example: Special Glass	Egress Window?	Sash Limiter?	Arch Type	Springline (if applicable)
	TYPE	LOCATION								
1			X				<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	NONE	
2			X				<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	NONE	
3			X				<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	NONE	
4			X				<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	NONE	
5			X				<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	NONE	

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22600 Savi Ranch Pkwy.  
Yorba Linda, CA 92887  
eurolinesteelwindows.com  
(877) 590-2741

*Realize your dreams. Build your legacy.*

## Limited 20 Year Warranty (non coastal)

### Product

Products are warranted against manufacturing defects for a period of 20 years, effective upon delivery.

### Factory Finish

We warranty our Ultra Bond painted products for 10 years; sheen weathering and fading is common. To honor the warranty, homeowner's maintenance and refinish recommendations must be followed as Euroline has specified. Patina on Ultra Bond paint is a live finish and will weather and wear over time.

### Glass

Insulated Glass is warranted to be free from failure for a period of 10 years after delivery. If the glass fails within the first 2 years from delivery, Euroline will replace and install the glass replacement. After 2 years, Euroline will replace the glass only, installation to be handled by the client. Glass warranty only applies to glass of 60 square feet or less.

### Hardware

Window hardware warranted for a period of 10 years after delivery, excluding finish weathering. After year 2, Euroline covers parts replacement and installation to be handled by client. Door hardware is warranted for a period of 2 years after delivery, excluding finish weathering.

All warranty claims must be made within 30 days after covered condition has occurred. Customer must have complied in full with the terms, payments, and other conditions of the contract. Claims under this limited warranty must be made in writing within the period of this warranty and prior to the beginning of any repair work by Euroline Steel Windows. Euroline Steel Windows reserves the right and must be given at least a sixty (60) days opportunity to have any product which is the subject of a warranty claim filed inspected by an Euroline Steel Windows representative. Reasonable access to the products in question must be given.

### This warranty does not cover:

- Coastal projects within 1 mile are covered for only 1 year, unless optional coastal warranty is purchased;
- Improperly installed products;
- Product damage during construction due to improper protection and cleaning;
- Damage caused by attempts to repair the product, or by any circumstance beyond our control, including but not limited to damage caused by misuse, abuse, accident, mishandling or acts of God;
- Modification to a product from its original design;
- Wear and tear with weather-stripping;
- Corrosion due to improper maintenance and /or refinish;
- Routine product maintenance including any which may be necessary during the course of construction;
- Normal wear and tear;
- Failure to perform normal homeowner's maintenance and refinish;
- Acid rain or other corrosive elements;
- Laminated glass is not warranted for delamination or visual defects at the edges of the glass;
- Door and window screens;

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## Optional Coastal Limited 10 Year Warranty

Euroline Steel Windows and Doors' Optional Coastal Package adds an enhanced undercoat of zinc and glazing process to extend the warranty on coastal applications not covered by standard warranty.

### Product

Products are warranted against manufacturing defects for a period of 10 years, effective upon delivery.

### Factory Finish

We warranty our Ultra Bond painted products for 5 years; sheen weathering and fading is common. To honor the warranty, homeowner's maintenance and refinish recommendations must be followed as Euroline has specified. Patina on Ultra Bond paint is a live finish and will weather and wear over time.

### Glass

Insulated Glass is warranted to be free from failure for a period of 10 years after delivery. If the glass fails within the first 2 years from delivery, Euroline will replace and install the glass replacement. After year 2, Euroline will replace the glass only, installation to be handled by the client. Glass warranty only applies to glass of 60 square feet or less.

### Hardware

Window hardware warranted for a period of 5 years after delivery, excluding finish weathering. After year 2, Euroline covers parts replacement and installation to be handled by client. Door hardware is warranted for a period of 2 years after delivery, excluding finish weathering.

Required Maintenance for all Euroline products in a Coastal location:

To ensure that our windows and doors perform at optimal levels, and to maintain Euroline's limited warranty, Euroline requests that you inspect and clean your windows and door frames monthly to be free from dirt and salt build up. Records of such cleaning must be maintained throughout the limited warranty period. Coastal location is defined as any location within 1 mile of an oceans' coastline, estuary, bay, lagoon, or harbor, and any area with high saline content such as certain other large bodies of water or irrigation systems.

All warranty claims must be made within 30 days after covered condition has occurred. Customer must have complied in full with the terms, payments, and other conditions of the contract. Claims under this limited warranty must be made in writing within the period of this warranty and prior to the beginning of any repair work by Euroline Steel Windows. Euroline Steel Windows reserves the right and must be given at least a sixty (60) days opportunity to have any product which is the subject of a warranty claim filed inspected by an Euroline Steel Windows representative. Reasonable access to the products in question must be given.

### This warranty does not cover:

- Improperly installed products;
- Product damage during construction due to improper protection and cleaning;
- Damaged caused by attempts to repair the product, or by any circumstance beyond our control, including but not limited to damage caused by misuse, abuse, accident, mishandling or acts of nature;
- Modification to the product from its original design;
- Wear and tear with weather-stripping;
- Corrosion due to improper maintenance and or refinishing;
- Routine product maintenance including any which may be necessary during the course of construction;
- Normal wear and tear;
- Failure to perform normal homeowner's maintenance and refinish;
- Acid rain or other corrosive elements;
- Laminated glass is not warranted for delamination or visual defects at the edges of the glass;
- Door and window screens;

## How to request a Warranty Service

We can respond quickly and efficiently if you provide the following information via email to:  
[don@eurolinesteelwindows.com](mailto:don@eurolinesteelwindows.com)

1. Jobsite address or Euroline project number
2. A brief description of the problem
3. A photograph of the problem or problems
4. The CAD drawing of the effected item

### Services **NOT** covered under the “Euroline Warranty”

1. Normal field product adjustments (installation related)
2. Damage caused by attempts to repair the product
3. Damage caused by normal construction ware and tear
4. Damage to weather-stripping // post delivery
5. The attachment or the replacement of any friction hinge that has become lost or broken during the construction process.
6. Weather-Stripping adjustments (Sliding Door systems)
7. Field touch-up painting of any kind
8. Product damage due to salt spray, stucco, plaster, or any other corrosive elements.
9. Acts of nature.
10. Failure to perform normal product maintenance. (See Euroline’s “Care and Maintenance Instructions)
11. Repairs or modifications performed by anyone other than the seller or someone under the control of Euroline supervision.
12. Improperly installed security systems (common problem; improperly installed alarm sensors. The alarms censor being installed to close to our door magnet thus creating an interference with the alarm system.
13. Lockset hardware finishes and maintenance
14. Accidents; including glass breakage, misuse, abuse, alterations, improper handling, or product operation outside of Euroline’s control.
15. Structural settlement or movement with-in a window or door rough opening

**NOTE: Any request for service that is listed under “Services NOT covered under the Euroline Warranty” will be a chargeable service and billed directly to the dealer or client. NOTE: The above mentioned services will be offered at the sole discretion of Euroline Steel Windows.**



## Care and Maintenance Instructions

### INTRODUCTION



**This guide provides important information that will help keep your steel windows and doors looking beautiful and operating smoothly for many years while maintaining warranty coverage.**

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### CONTACT US

For questions, feel free to contact us by phone or e-mail:  
714-617-9191 or at [care@eurolinesteelwindows.com](mailto:care@eurolinesteelwindows.com)

The advice offered herein can be done by a homeowner with some mechanical aptitude. If you are unsure, it is recommended that you hire a trained service provider such as a competent and licensed construction contractor or building professional. Euroline disclaims any and all liability associated with the use and/or provision of these instructions. Any reliance upon the information or advice is at the risk of the party so relying. The information contained herein may be changed from time to time without notification.





## **CARE AND CLEANING**

### **GENERAL CLEANING**

Prepare cleaning solution (1 tsp baby shampoo to one gallon of water or 1 1/2 cups vinegar to one gallon of water).

1. Rinse surface with clean water from top to bottom.
2. Clean with mild soap and water and sponge or soft brush with uniform pressure horizontally, then vertically.
3. Promptly rinse thoroughly with clean water (sponging while rinsing may be helpful; do not allow cleaning solution to dry on the surface or collect and puddle).
4. Wipe dry with lint-free dry cloth.
5. If necessary, repeat steps above until clean.
6. Dry window frame and sill with separate cloth

### **REMOVAL OF EXCESS PAINT ON GLASS**

1. Soak dried paint drips with warm water and a soapy solution.
2. Wipe with damp cloth or sponge.  
If needed,
3. Scrape gently using a plastic razor blade or plastic putty knife. Repeat soak and scrape if necessary.

Note! For mineral spirit based paint drips, consult a paint professional.

### **PRECAUTIONS AND SAFETY**

- Never mix cleaners or solvents. This may be dangerous as well as ineffective.
- Use help when working with a large window sash or patio door panel to avoid injury.
- Use proper/safe equipment and precautions when cleaning and servicing the exterior side of windows above ground level.
- If using commercial cleaning or finishing products or solvents, carefully read and follow safety instructions, warnings, cautions and disposal instructions on manufacturer's labels. Wear appropriate safety gear (e.g. clothing, goggles, gloves) and provide plenty of ventilation.
- Most solvents are flammable and/or toxic and must be handled with extreme care. Do not use near open flame, sparks, or electrical motors.

### **RECOMMENDATIONS**

- Do not power-wash windows or use a garden hose; this can cause seal failure and allow water to enter the structure.
- When cleaning exterior, multi-story windows, begin with the upper story and work down.
- Avoid using metal tools, razor blades, or other sharp objects and abrasive cleaners. They can damage window surfaces, scratch glass and remove glass coatings.
- Do not allow aggressive cleaners to come into contact with metal surfaces. Immediately rinse and dry.
- Do not allow cleaners to puddle or collect at glass edges near glazing materials.
- Avoid cleaning in direct sunlight or in temperatures too hot or too cold.
- Avoid excessive rubbing and over-cleaning.
- Do not scour.
- Clean and rinse one area at a time.
- Clean twice a year (monthly in coastal areas) or when dirty.
- After-market tints and films are not recommended, as they may cause damage to the glass and/or sealant.

### **LABEL REMOVAL**

Slowly peel from one corner. If label tears or sticks, moisten with soapy water and gently scrape with plastic putty knife. Stubborn labels can be soaked with soapy water and covered overnight with plastic wrap. Gently remove with plastic putty knife.

### **MORE INFORMATION ON GLASS CLEANING**

- The Glass Association of North America (GANA):  
[www.glasswebsite.com](http://www.glasswebsite.com)



## **INSPECTION AND MAINTENANCE**

### **WEATHERSTRIP**

Inspecting and maintaining weatherstrip can help avoid costly structural damage from water leakage and energy loss due to air and/or water infiltration. Replace weatherstrip, that is missing, torn, cracked, brittle, discolored, gummy, or that has no “bounce back” when pressed down. Call us for replacement instructions.

### **Precautions**

- Solvents such as mineral spirits or petroleum-based products may damage or dissolve weatherstrip or weatherstrip adhesion.
- When using alcohol, always test small area first to avoid product damage.
- Do not allow solvents or silicone to surfaces around the weatherstrip.
- Do not use abrasives, sanders, or anything sharp near weatherstrip.

### **Non Water-Soluble Cleaning**

Clean with denatured alcohol on soft cloth. Test on inconspicuous area first. If denatured alcohol does not work:

1. Clean with small amount of lacquer thinner on soft cloth. Follow all instructions.
2. Repeat if necessary.
3. Clean with mild soap and water, then rinse. If unsuccessful, consider replacing the weatherstrip.

### **Light Cleaning**

1. Clean with damp cloth or mild soap and water.
2. Rinse and dry thoroughly.
3. Repeat if necessary.

### **Weatherstrip Repair**

If weatherstrip is loose, or coming off:

1. Carefully pull back weatherstrip.
2. Apply thin bead of super glue, then press firmly for just a few seconds.

### **Oxidation Residue**

If any brown residue is noted on the surface of the product, or oxidation is left untreated, the corrosion process will expand into the product. When this happens, your product warranty is nullified.

## **COASTAL CARE AND MAINTENANCE**

**NOTE:** *In coastal applications and in any harsh environments such as near salt water, Euroline Steel Windows and Doors recommends monthly inspections and maintenance. Salt and other corrosive or abrasive substances must **not** be allowed to build up on exterior surfaces.*

Clean the exterior with a mild detergent soap and water a minimum of once every month and more frequently if necessary to prevent any corrosive material build up. Any scratches, chips or areas of abrasion to the exterior coating must be repaired immediately.



## RE-FINISHING OF EUROLINE PRODUCTS

When preparing to refinish your Euroline steel products, consider the tools and materials you will need for the entire project. Listed below are some common painting/ re-finishing product types to consider. Specific tools or materials may vary.

**Note! Areas with extreme climates and corrosive environments (coastal and humid areas) require specially designed products that offer extra protection.**

### RECOMMENDATIONS ON HOW TO RE-FINISH YOUR EUROLINE PRODUCT

There are many different options for painting. Visit a local paint store for recommendations on types of materials, colors, sheens and application methods. Many paint stores offer color sample cards you may take home.

#### **Primers:**

- Some paint manufacturers offer low temperature primers that may still be applied below 50°.
- Select oil based primers for steel.

#### **Paints:**

- Use paint designed for metal only. Ask your local paint supplier for paint recommendations.
- Use only paints designed for use on metal'

### STEP-BY-STEP painting recommendations:

1. **Remove any window or door hardware**
2. **Sand the door or window to prepare it for painting using a fine grit sand paper such as 220g or a 320g.** Scrape away any thick paint or flaking paint before sanding. Use a damp cloth to remove particles left over from sanding.
3. **Cover any glass or other non-removable items on the door with painter's tape and newspaper.**
4. **It is recommended that you re-prime your product prior to painting.** Next, stir the paint in the can with a paint stick to thoroughly mix the paint.
5. **Paint the edges of the door first.** Next, paint all the panels that are part of the door. A good technique is to then paint from the top of the door to the bottom.
6. **Go over the painted surface lightly with the paint brush.** Do this after you paint each section to remove any brush marks.
7. **Re-install all window and door hardware after the paint is thoroughly dry.**

## GLASS REPLACEMENT

**Euroline Steel Windows and Doors** recommends that you hire a trained service provider such as a competent and licensed construction contractor or building professional for all glazing requirements. Glazing should only be performed by a trained professional.

If your product came factory glazed, Euroline Steel Windows recommends using “DOW 795Silicone Glazing Sealant”.

## EUROLINE DISCLAIMER

**Euroline Steel Windows and Doors** disclaims any and all liability associated with the use and/or provision of these instructions. Any reliance upon the information or advice is at the risk of the party so relying. The information contained herein may be changed from time to time without notification.