

# **HYBRID FIBER RESIN**

NEW COLLECTION

[peerlessproducts.com](http://peerlessproducts.com)







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# HYBRID FIBER RESIN

We are excited to announce the **Hybrid Fiber Resin** product, a revolutionary window and door system designed with both sustainability and performance in mind. **Hybrid Fiber Resin** stands out as a fully recyclable solution that not only meets but exceeds the performance benchmarks set by traditional window systems on the market.

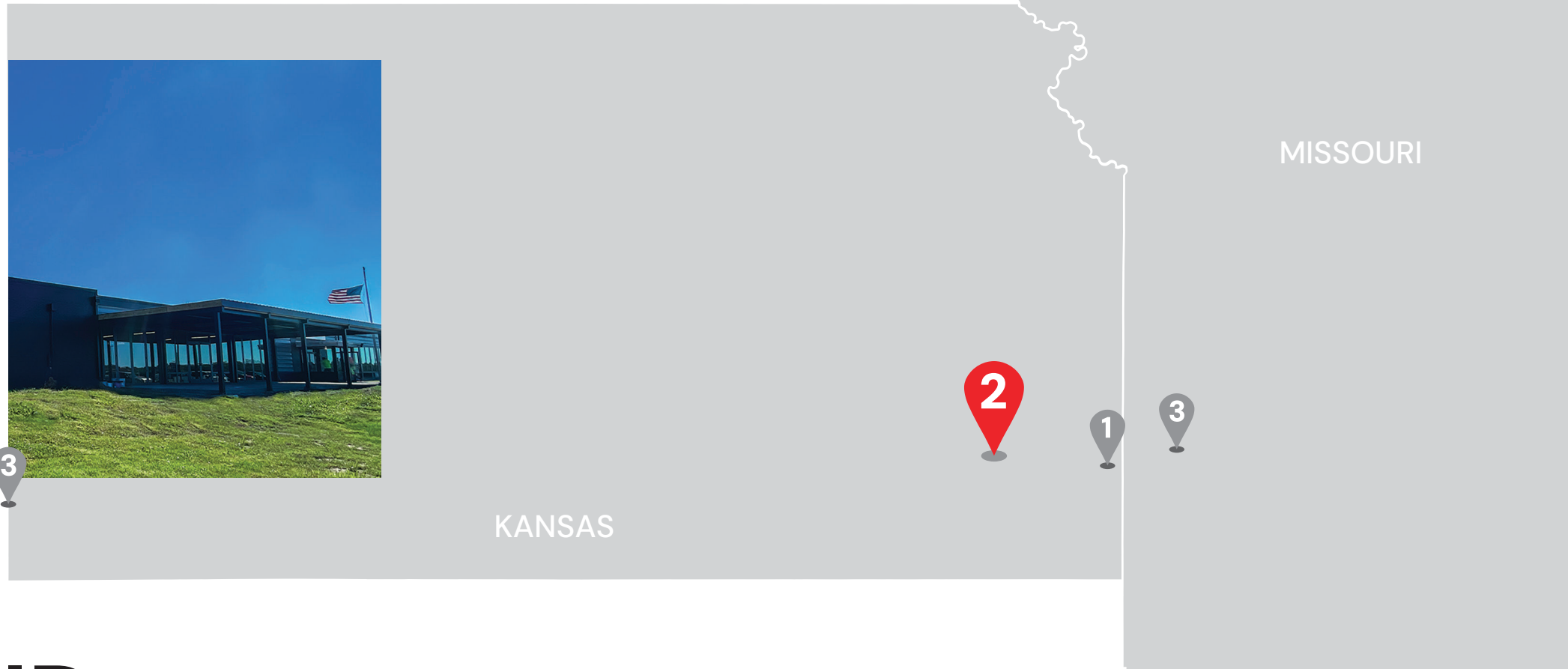
This innovative window and door system empowers architects, builders, and designers with exceptional strength and stability, making it ideal for creating expansive views in both commercial and residential properties. The **Hybrid Fiber Resin** system has been meticulously developed to comply with Passive House certification standards, ensuring energy efficiency and sustainability without compromising on aesthetics.

This is **Hybrid Fiber Resin**

*Bronze*  
Bronze

More options can be found on the "COLOR OPTIONS" page (pg. 13)





# WHERE THE **HYBRID FIBER RESIN** MAGIC HAPPENS

Peerless Commercial Applications Group is proud to announce that it has begun manufacturing **Hybrid Fiber Resin**, a cutting-edge solution designed to revolutionize commercial applications. With a focus on innovation, reliability, efficiency, and sustainability **Hybrid Fiber Resin** is set to redefine industry standards, offering enhanced performance and functionality for businesses across multiple sectors.

Peerless is leveraging its expertise and state-of-the-art manufacturing capabilities to produce **Hybrid Fiber Resin** with precision and quality, ensuring that customers receive a product that meets their highest expectations.

This marks an exciting milestone for Peerless as it continues to lead the way in delivering forward-thinking solutions for the modern business landscape.

## Peerless Locations

- 1 Peerless Products Inc.**  
 2403 S. Main St, Fort Scott, KS 66701  
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- 2 Peerless Commercial Applications Group**  
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- 3 Peerless Innovative Solutions Group**  
 1800 N. Industrial Highway, Nevada, MO 64772  
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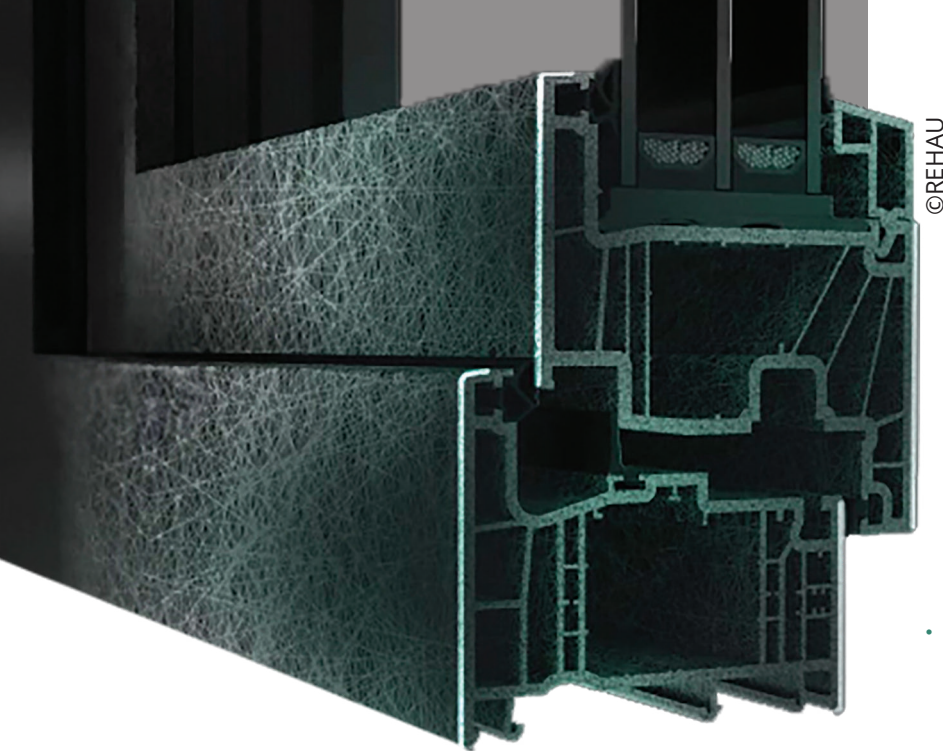
# THE MACHINERY



Schedule a visit to check out the manufacturing of **Hybrid Fiber Resin** and the machinery in action!

To schedule a tour, visit [peerlessproducts.com](https://peerlessproducts.com)





©REHAU

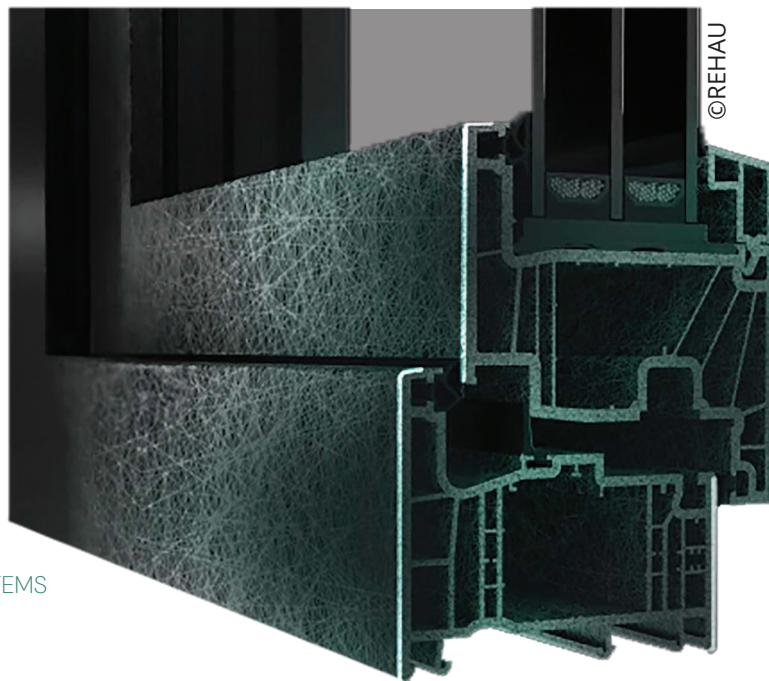
- EXCEPTIONAL INSULATION

- EXCEEDS PVC DURABILITY

- EASILY SCALABLE

## RAU-FIPRO

Unmatched fiber-reinforced PVC material with power zones



©REHAU

- LIGHTER THAN TRADITIONAL TILT-TURN SYSTEMS

## RAU-FIPRO

**RAU-FIPRO®** glass-fiber reinforced PVC is a game-changing window profile material engineered by REHAU. It delivers the lightweight strength of materials used in the aerospace and automotive industries, while retaining all the properties that have made PVC the leading window profile material worldwide.

# RAU-FLECT

## RAU-FLECT LOW-E INSERT

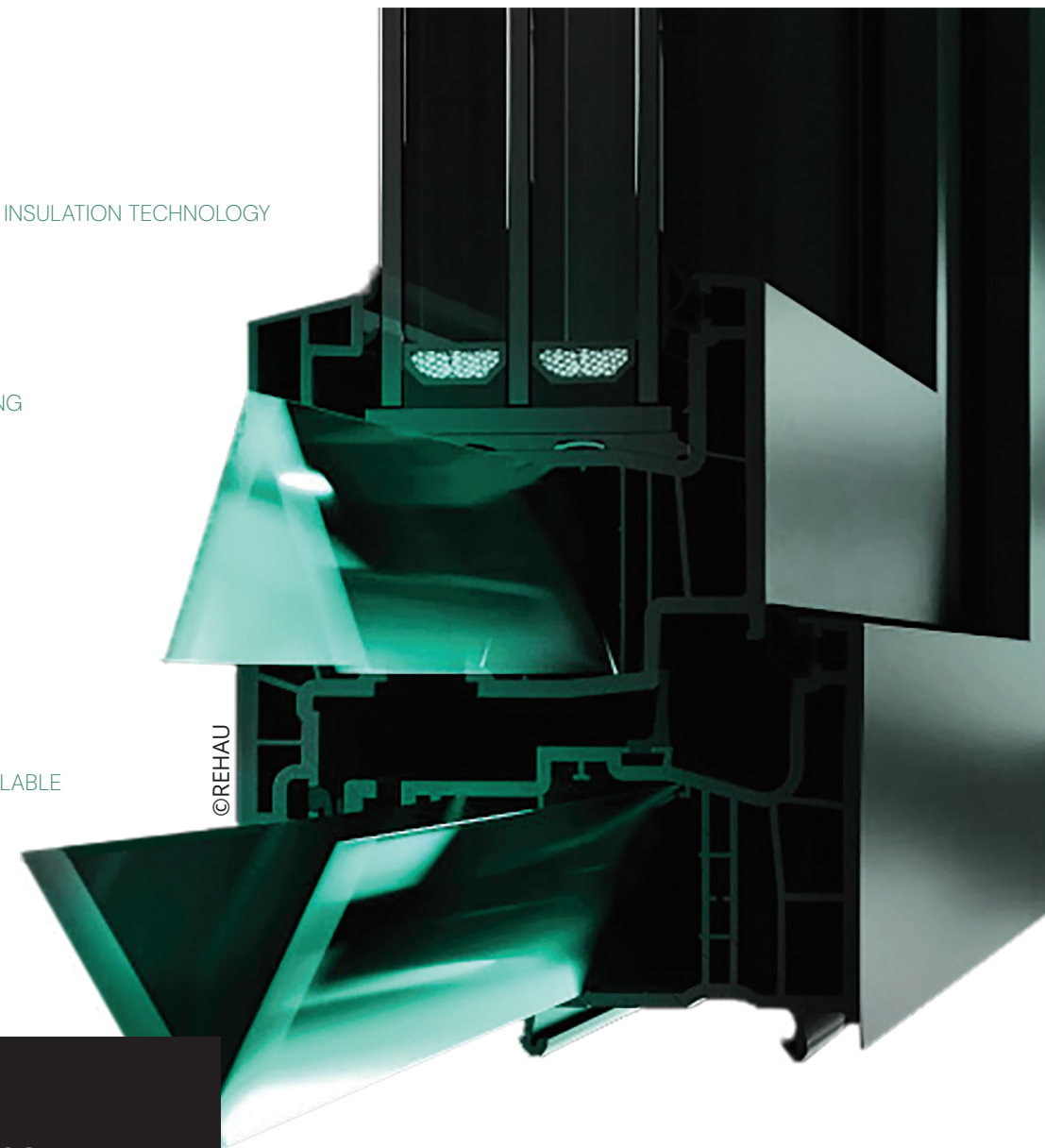
This V-shaped weldable PVC component has a highly reflective coating to eliminate convection in profile chambers, strongly reduce heat radiation and provides reliability in the most punishing temperatures. When pairing **RAU-FLECT™** with **Hybrid Fiber Resin**, a fully recyclable system is possible, paving the way for you, and us, to commit to a greener future for generations to come.

- INNOVATIVE HEAT INSULATION TECHNOLOGY

- HIGHLY REFLECTIVE COATING

- LOW U-VALUES

- FULLY RECYCLABLE



©REHAU

## RAU-FLECT

Significantly minimizes heat radiation and ensures reliability in extreme temperatures.



# HYBRID FIBER RESIN COLOR OPTIONS

Each finish is meticulously wrapped using high-quality RENOLIT EXOFOL FX film, known for its durability, exceptional resistance to wear, and beautiful, long-lasting appearance. This premium film not only enhances the overall look but also provides added protection, making Hybrid Fiber Resin a reliable and stylish choice for a variety of applications.

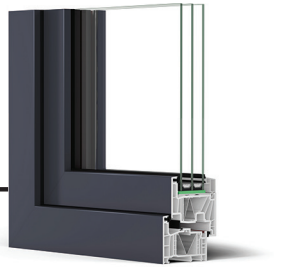
## Style & Durability

### STYLE AND DURABILITY IN EVERY COLOR

Hybrid Fiber Resin is available in an extensive selection of popular colors and styles, ensuring there is an option to suit every taste and design preference. Whether you're looking for a sleek, modern look or a more classic aesthetic, Hybrid Fiber Resin offers versatile choices that can complement any space or project.

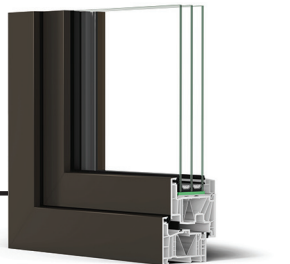
*Anthracite Grey*

Anthracite Grey



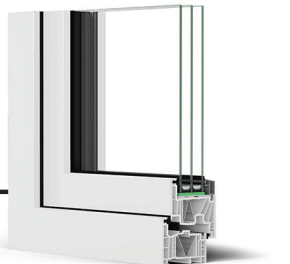
*Bronze NA*

Bronze NA



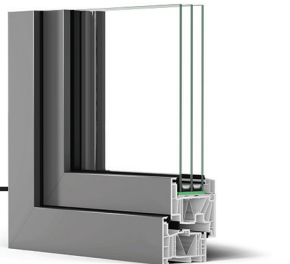
*White*

White



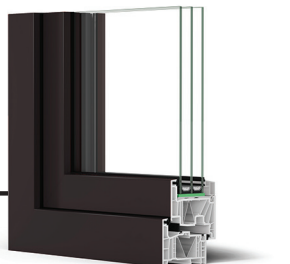
*Silver D*

Silver D

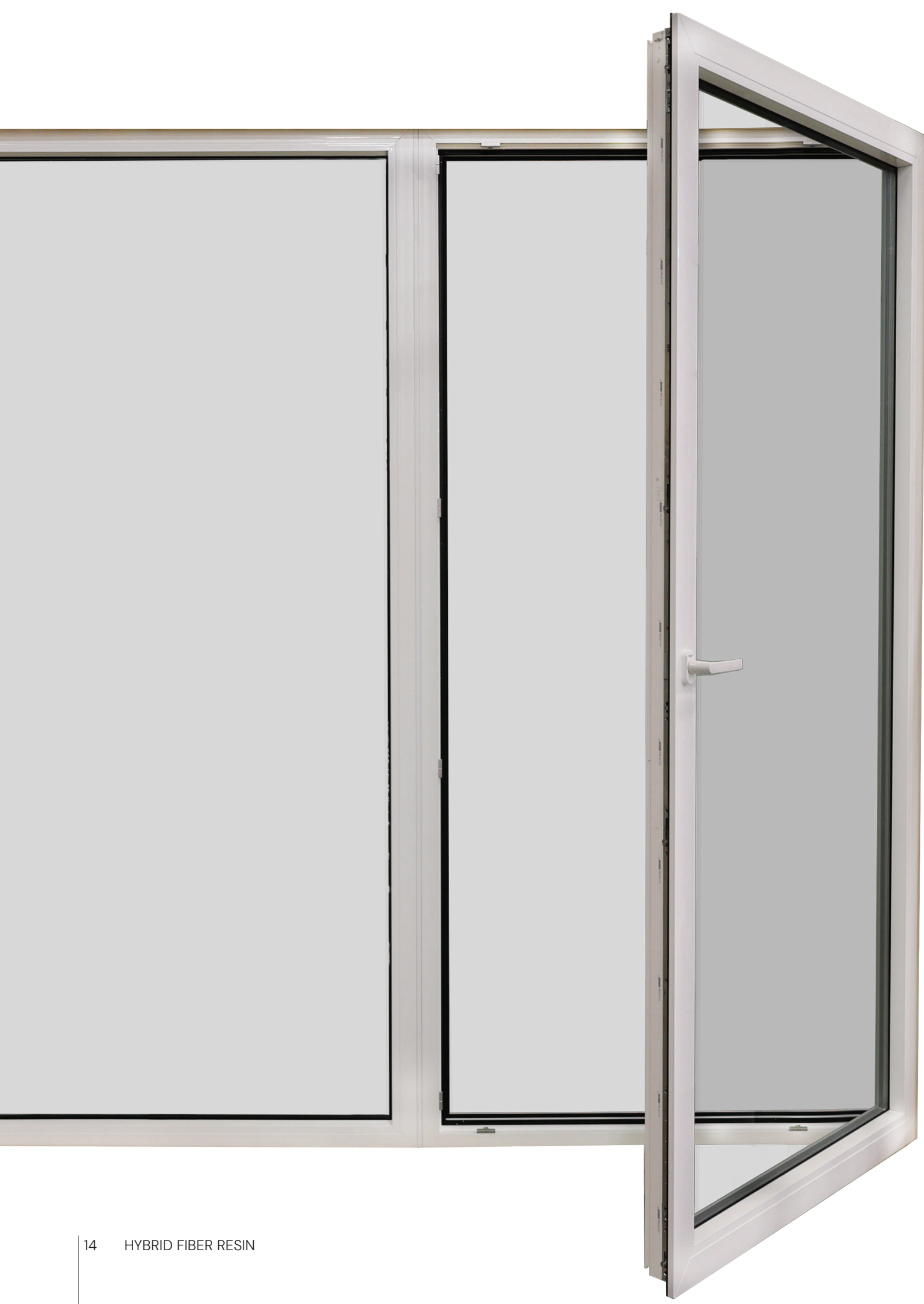


*Midnight Brown*

Midnight Brown







# Hardware

## HARDWARE PAIRING

The Roto NX concealed hinge is expertly designed to seamlessly integrate with hybrid PVC materials, such as Hybrid Fiber Resin, offering a high level of functionality while enhancing the overall aesthetic. This innovative hinge creates a sleek, modern appearance, making it the ideal choice for contemporary window and door applications.





PHIUS CERTIFIED | HYBRID FIBERGLASS REINFORCED PVC WINDOWS

# HYBRID FIBER RESIN

HFR FIXED

TRIPLE GLAZED | HYBRID FIBER RESIN

AW 100

Scan here to view PHIUS Report

SPECIFICATIONS	
U-Value Whole Window	0.14 BTU/hr • ft² • °F 0.81 W/m²K
U-Value, Center of Glass (U-COG)	0.12 BTU/hr • ft² • °F 0.65 W/m²K
Operation Type	Fixed
Frame Material	Vinyl
Recommended Climate Zones	1 2 3A 3B 3C 4A 4B 4C 5A 5B 5C

Orange Path Certified

Product Number: W-102471  
THERM Files Available: No

Phius Certification Path: Orange Path  
Air Leakage Test Data Available: No

HFR OPR

DOUBLE GLAZED | HYBRID FIBER RESIN

AW 100

Scan here to view PHIUS Report

SPECIFICATIONS	
U-Value Whole Window	0.16 BTU/hr • ft² • °F 0.90 W/m²K
U-Value, Center of Glass (U-COG)	0.12 BTU/hr • ft² • °F 0.65 W/m²K
Operation Type	Casement
Frame Material	Vinyl
Recommended Climate Zones	1 2 3A 3B 3C 4A 4B 4C 5A 5B 5C

Orange Path Certified

Product Number: W-102472  
THERM Files Available: No

Phius Certification Path: Orange Path  
Air Leakage Test Data Available: No



## PEERLESS HYBRID FIBER RESIN SIMULATION REPORT

### FIXED:

98	<b>Foil Insert:</b> E366 / arg / E180 / arg / i89 (6mm/6mm/6mm) 1.75" IG											
	0.224	0.539	0.224	0.539	0.224	ARG90	0.020(#2) / 0.068(#4) / 0.149(#6)			CL	SS-D	N
	U-Factor: 0.13			SHGC(N): 0.19			VT(N): 0.43			CR: 63		
204	<b>No Foil Insert:</b> E366 / arg / E180 / arg / i89 (6mm/6mm/6mm) 1.75" IG											
	0.224	0.539	0.224	0.539	0.224	ARG90	0.020(#2) / 0.068(#4) / 0.149(#6)			CL	SS-D	N
	U-Factor: 0.14			SHGC(N): 0.19			VT(N): 0.43			CR: 63		
205	<b>No Foil Insert:</b> E272 / arg / Clr / arg / E180 (3mm/3mm/3mm) 1.375" IG											
	0.118	0.500	0.118	0.500	0.118	ARG90	0.042(#2) / 0.068(#5)			CL	SS-D	N
	U-Factor: 0.16			SHGC(N): 0.31			VT(N): 0.51			CR: 76		

### OPERABLE

98	<b>Foil Insert:</b> E366 / arg / E180 / arg / i89 (6mm/6mm/6mm) 1.75" IG												
	0.224	0.539	0.224	0.539	0.224	ARG90	0.020(#2) / 0.068(#4) / 0.149(#6)				CL	SS-D	N
	U-Factor: 0.13			SHGC(N): 0.19			VT(N): 0.43				CR: 63		
102	<b>Foil Insert:</b> E180 / arg / Clr / arg / E180 (5mm/5mm/5mm) 1.375" IG												
	0.185	0.406	0.185	0.406	0.185	ARG90	0.042(#2) / 0.068(#5)				CL	SS-D	N
	U-Factor: 0.17			SHGC(N): 0.25			VT(N): 0.42				CR: 76		
165	<b>No Foil Insert:</b> SB60 / arg / SB60 / arg / Clr (3mm/3mm/3mm) 1.375" IG												
	0.129	0.500	0.129	0.500	0.129	ARG90	0.035(#2) / 0.035(#4)				CL	TS-D	N
	U-Factor: 0.16			SHGC(N): 0.22			VT(N): 0.40				CR: 78		
204	<b>No Foil Insert:</b> E366 / arg / E180 / arg / i89 (6mm/6mm/6mm) 1.75" IG												
	0.224	0.539	0.224	0.539	0.224	ARG90	0.020(#2) / 0.068(#4) / 0.149(#6)				CL	SS-D	N
	U-Factor: 0.15			SHGC(N): 0.16			VT(N): 0.36				CR: 65		
205	<b>No Foil Insert:</b> E272 / arg / Clr / arg / E180 (3mm/3mm/3mm) 1.375" IG												
	0.118	0.500	0.118	0.500	0.118	ARG90	0.042(#2) / 0.068(#5)				CL	SS-D	N
	U-Factor: 0.17			SHGC(N): 0.26			VT(N): 0.43				CR: 79		
207	<b>No Foil Insert:</b> E180 / arg / Clr / arg / E180 (3mm/3mm/3mm) 1.375" IG												
	0.118	0.500	0.118	0.500	0.118	ARG90	0.068(#2) / 0.068(#5)				CL	SS-D	N
	U-Factor: 0.17			SHGC(N): 0.38			VT(N): 0.47				CR: 78		
208	<b>No Foil Insert:</b> E180 / arg / Clr / arg / E180 (5mm/5mm/5mm) 1.375" IG												
	0.185	0.406	0.185	0.406	0.185	ARG90	0.042(#2) / 0.068(#5)				CL	SS-D	N
	U-Factor: 0.18			SHGC(N): 0.25			VT(N): 0.42				CR: 75		

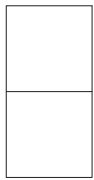


# Master Details

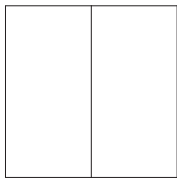
Hybrid Fiber Resin Fixed / Inswing Casement Details  
Hybrid Fiber Resin Dry Glaze Window  
3 1/8" Frame Depth  
1/2 Scale 8.5 X 11



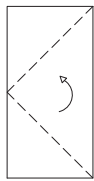
41



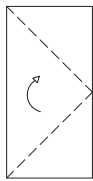
41/41



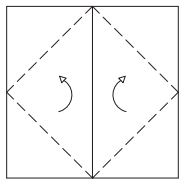
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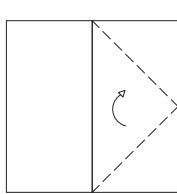
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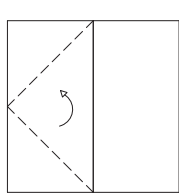
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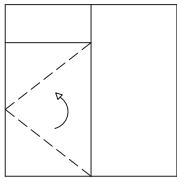
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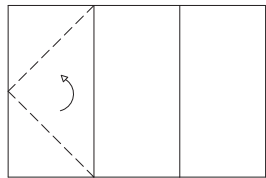
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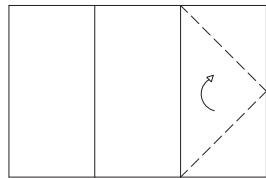
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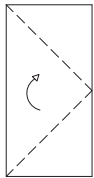
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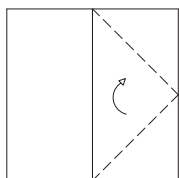
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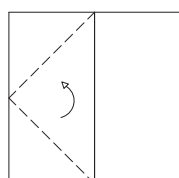
41-41-65



Door



41-Door



41-Door

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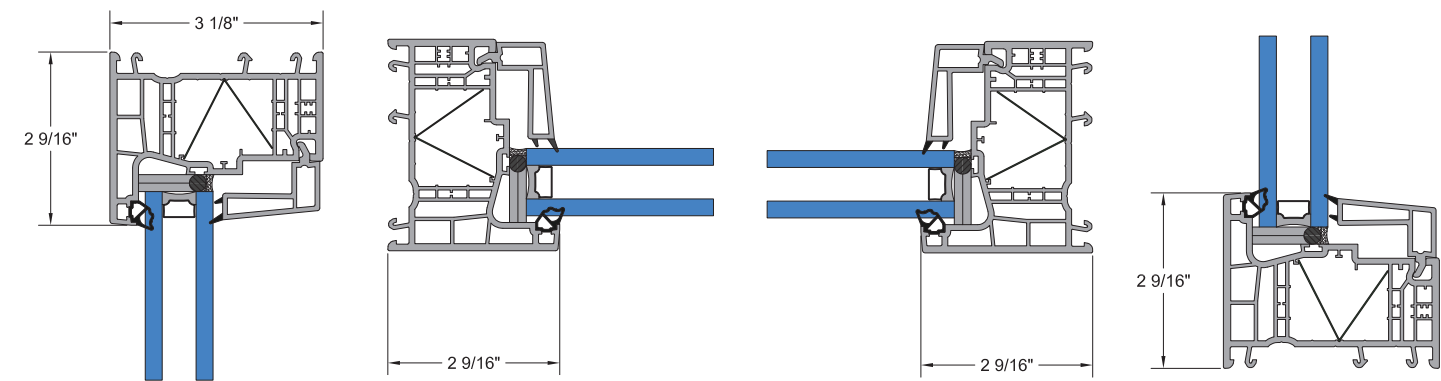




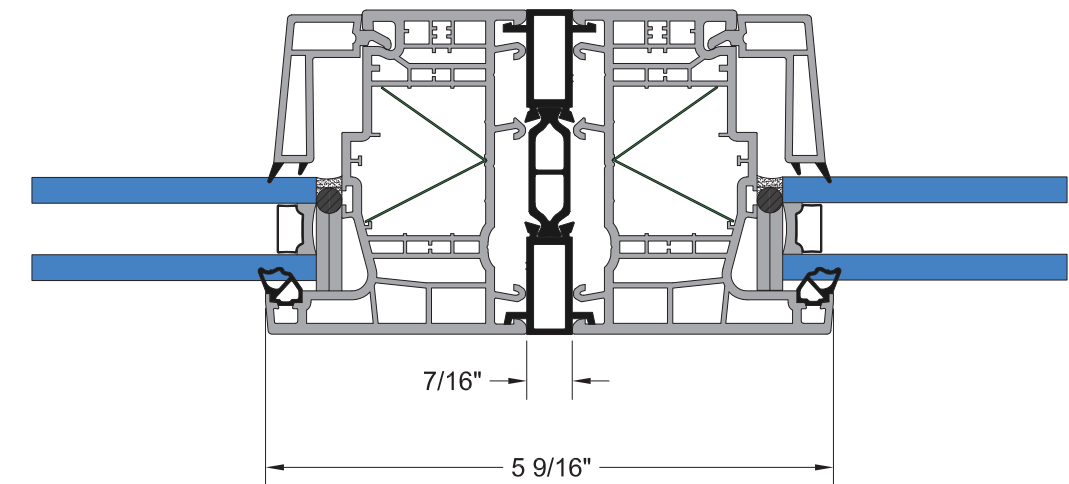
# HYBRID FIBER RESIN WINDOW DETAILS

## FIXED WINDOWS

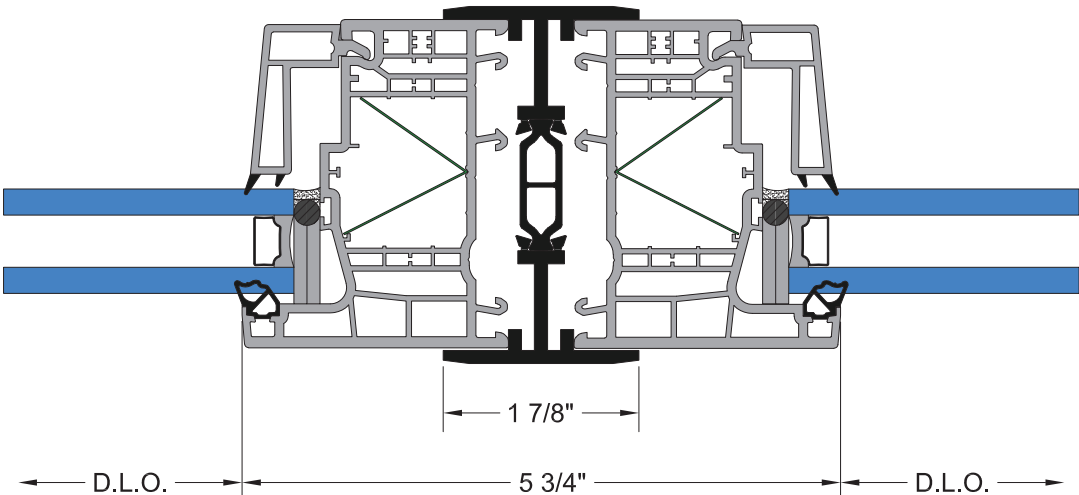
The Peerless Hybrid Fiber Resin fixed window offers a sleek, modern design with excellent insulation, durability, and security. It maximizes natural light while providing energy efficiency and customizable options to enhance any space.



Fixed/Fixed Detail  
Structural Mull

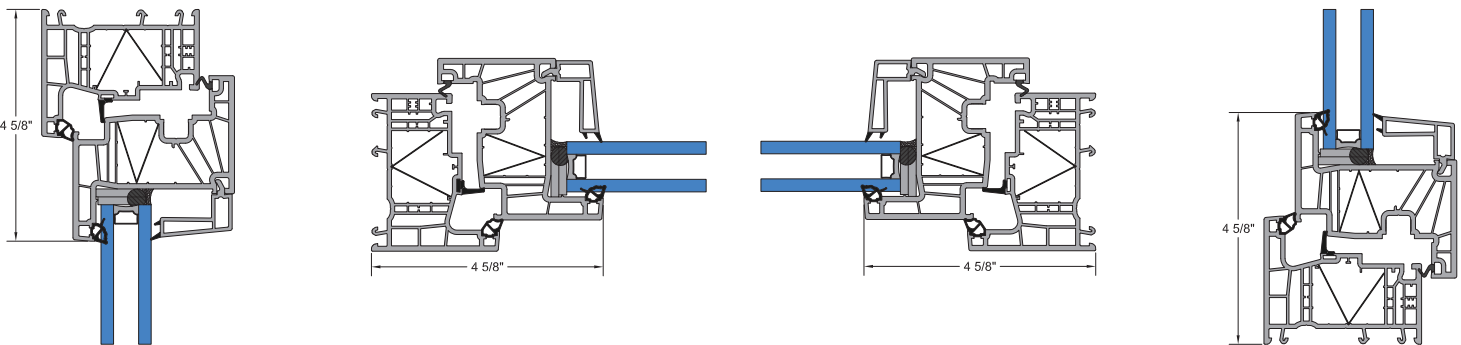


Fixed/Fixed Detail  
Structural Mull

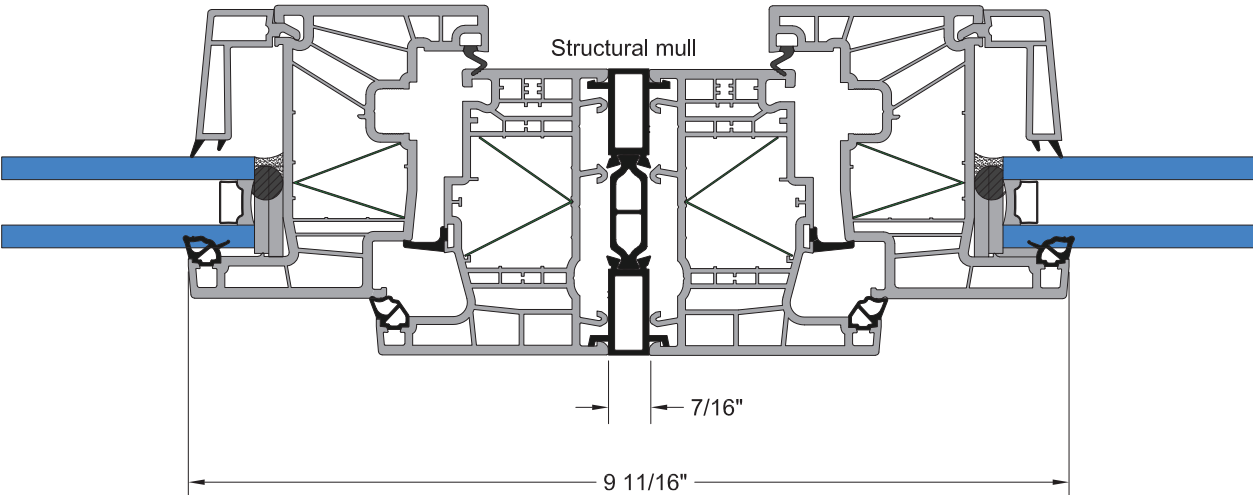


## INSWING CASEMENT

The Peerless Hybrid Fiber Resin casement window combines a sleek design with excellent insulation, durability, and security. Its smooth operation allows for optimal ventilation, while customizable options enhance both aesthetics and performance.



Casement/Casement Detail

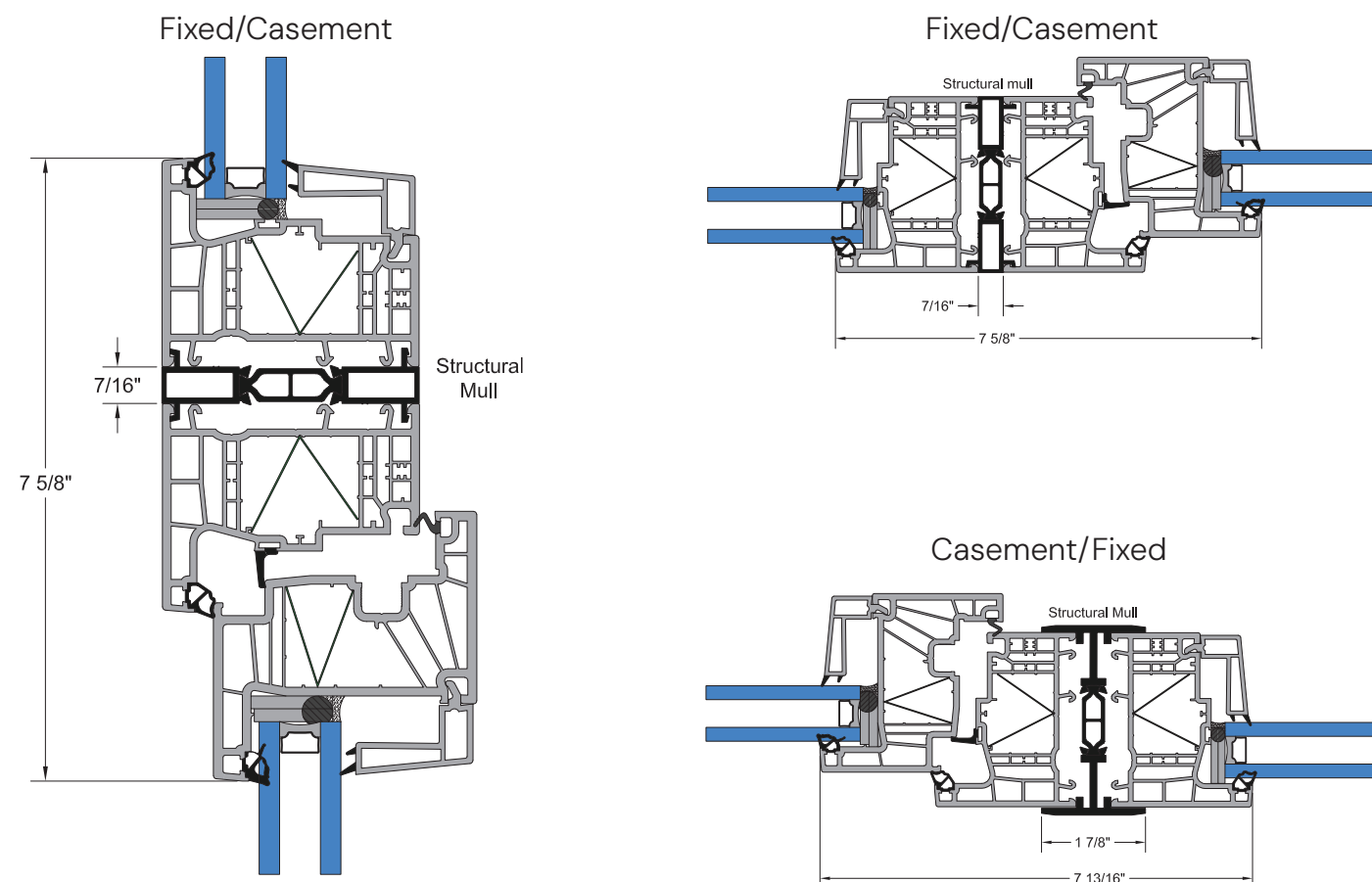






## FIXED OVER CASEMENT AND CASEMENT OVER FIXED

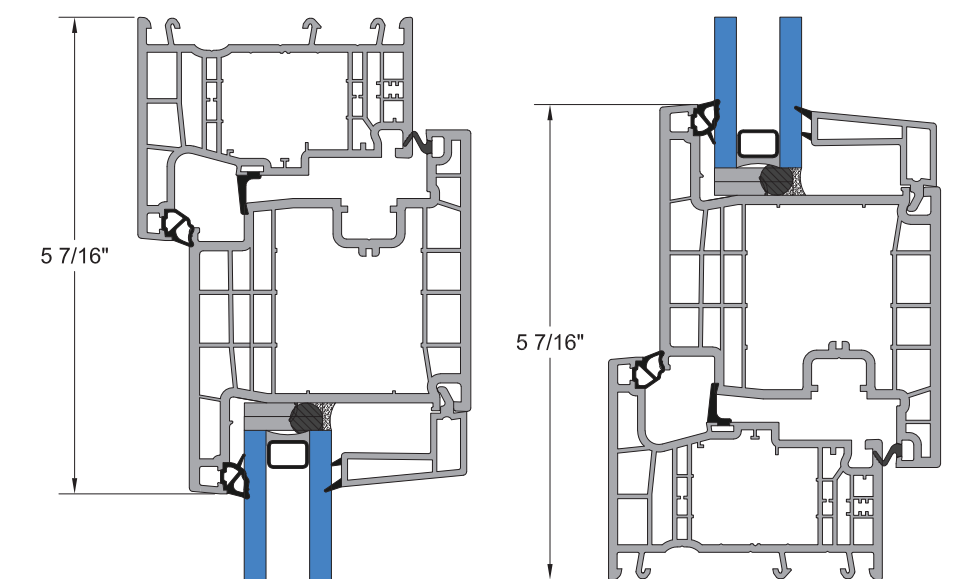
The Peerless Hybrid Fiber Resin fixed/casement and casement/fixed combines a fixed window with a casement for a modern, functional design. It offers excellent insulation, durability, and security while maximizing natural light and ventilation. Its smooth operation and customizable options enhance both aesthetics and performance.



# HYBRID FIBER RESIN DOOR DETAILS

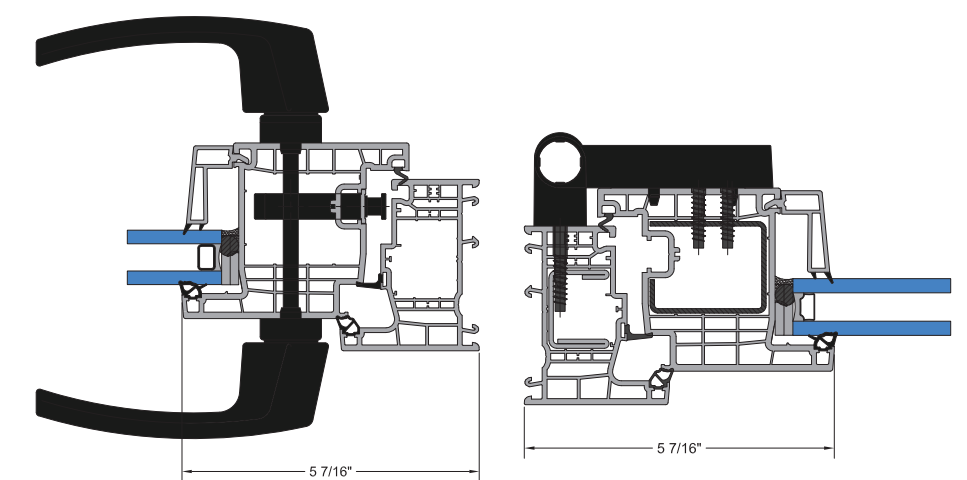
## HYBRID FIBER RESIN DOOR

The Peerless Hybrid Fiber Resin door features a sleek design, excellent insulation, and durable construction for long-lasting performance. Its smooth operation, enhanced security, and customizable options make it both stylish and functional.



## DOOR HANDLES

The Peerless Hybrid Fiber Resin door features a sleek design, excellent insulation, and durable construction for long-lasting performance. Its smooth operation, enhanced security, and customizable options make it both stylish and functional.

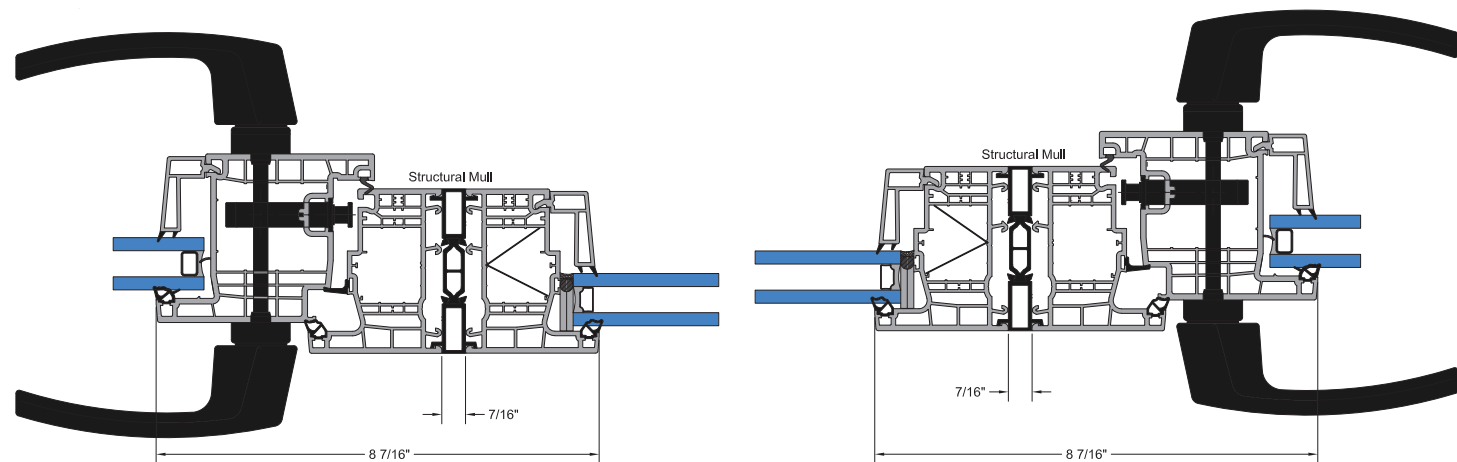






## DOOR HANDLES

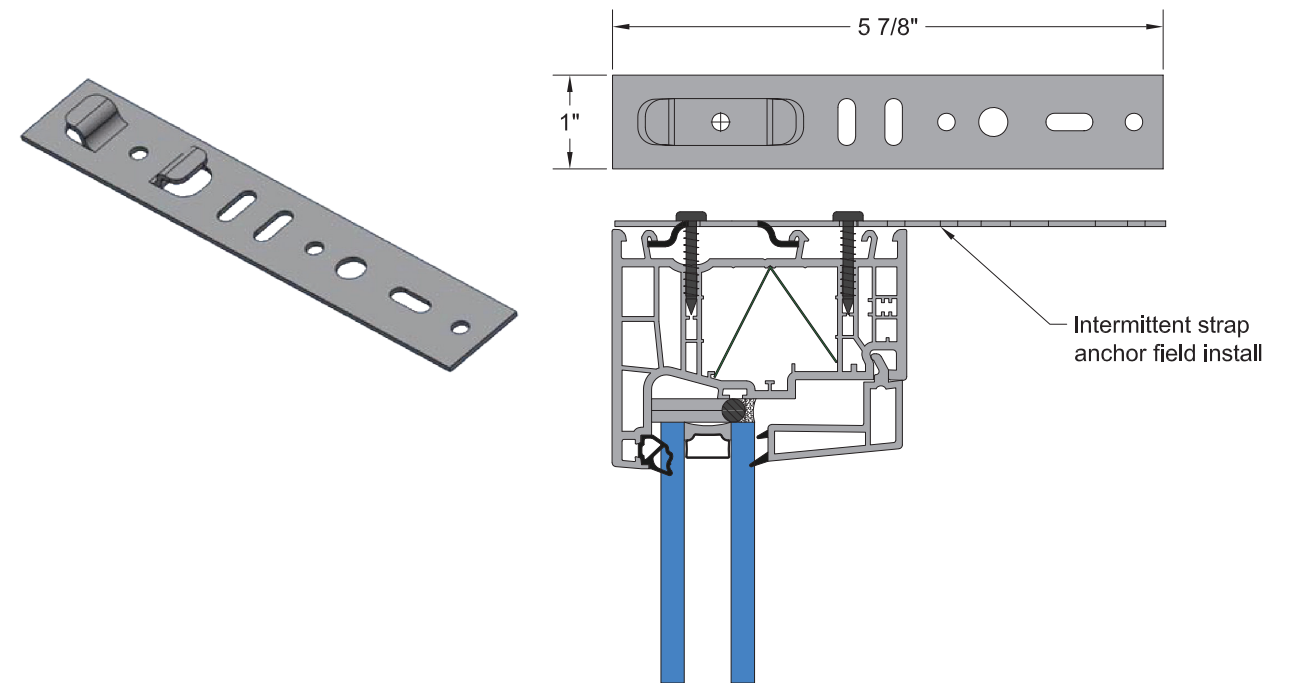
Our door handles feature a sleek, modern design with ergonomic comfort and durability. Crafted from high-quality materials, they offer smooth operation, enhanced security, and various stylish finishes to complement any door aesthetic.



# HYBRID FIBER RESIN ACCESSORY DETAILS

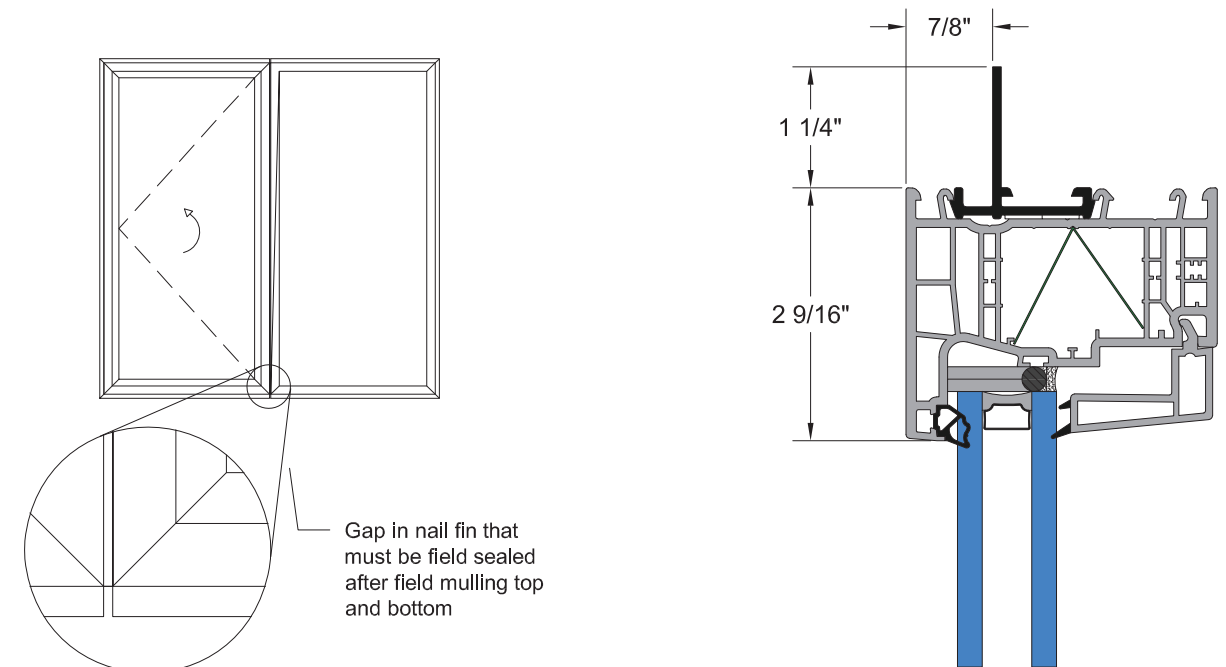
## STRAP ANCHOR

Strap anchors secure windows or doors to the surrounding structure, ensuring stability and load distribution. It helps with proper alignment, enhances structural integrity, and simplifies installation.



## NAIL FIN

Nail fins are an integrated flange on a window or door frame used for securing it to the building structure. It provides a weatherproof seal, ensures stability, and simplifies installation.



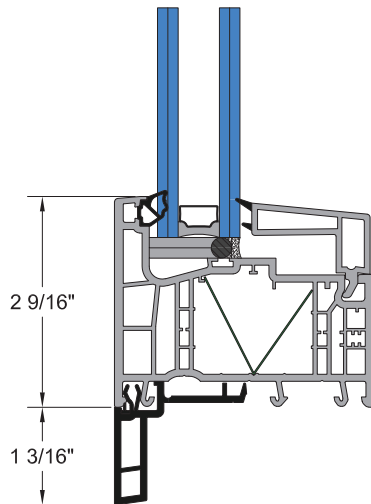
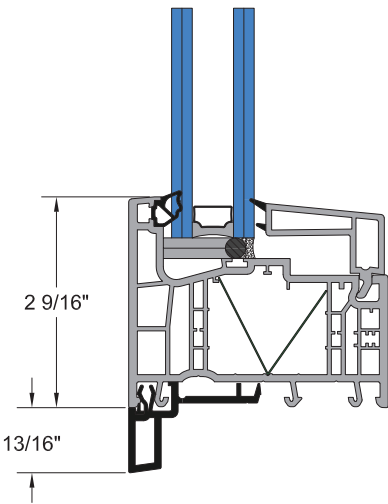
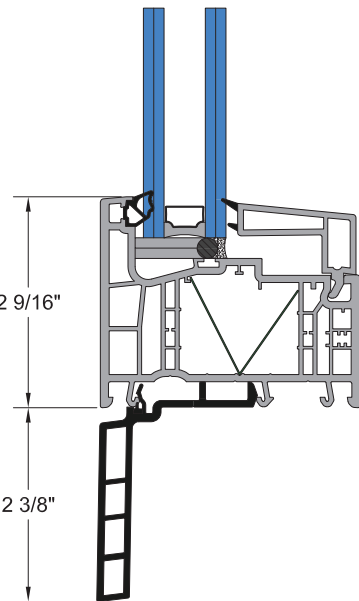




# OPTIONAL FRAMING ACCESSORIES

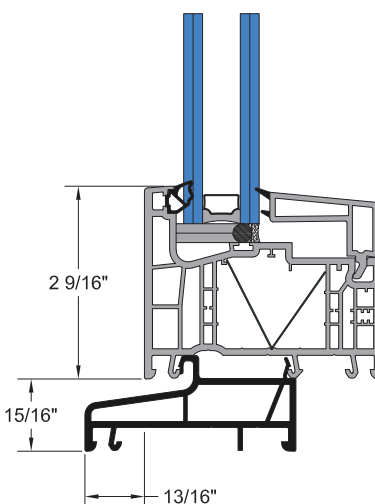
## PANNING SYSTEM

Our panning system covers and protects the existing window frame in retrofit installations. It improves water drainage and helps seal gaps to prevent air and moisture infiltration. It also increases the structural integrity and maintains the buildings exterior appearance.



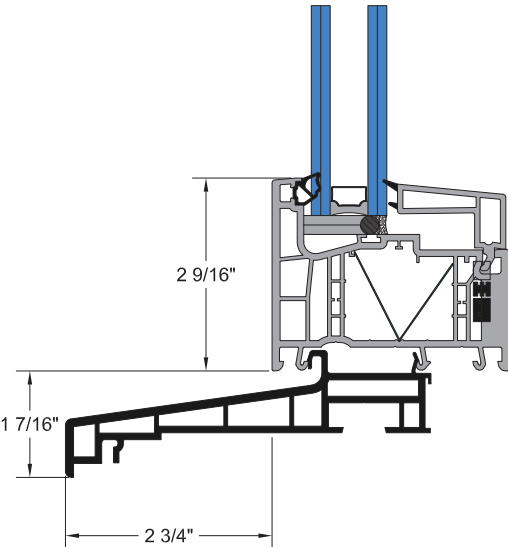
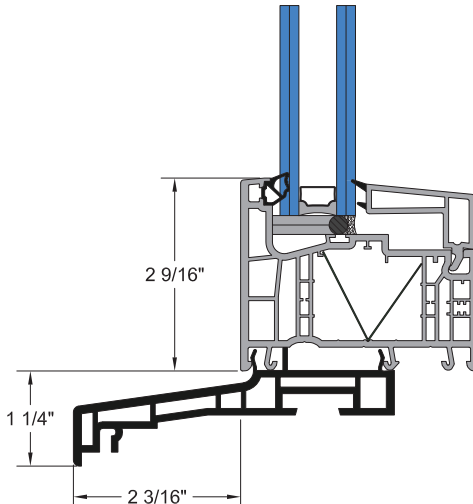
## SILL COVER

Our sill cover improves aesthetics, protects against moisture, and enhances drainage.



## SILL EXTENDERS

Our sill extender enhances drainage, prevents water damage, and adapts the window to various wall thicknesses. It also improves aesthetics by covering unfinished areas and can provide structural support for a more durable installation.









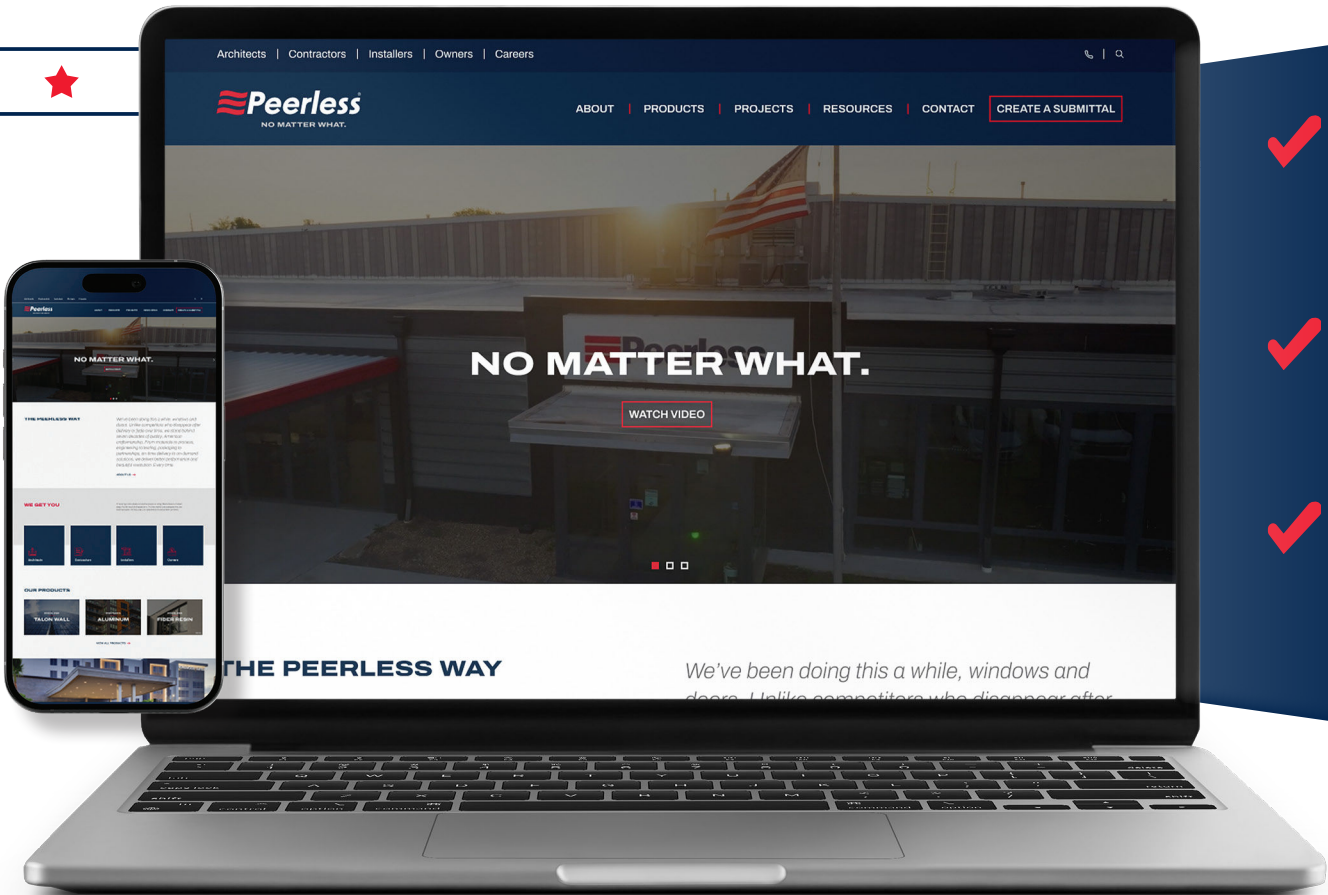
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*Hybrid Fiber Resin*

A FULLY RECYCLABLE SOLUTION



[peerlessproducts.com](http://peerlessproducts.com)