

GLASSNUT™

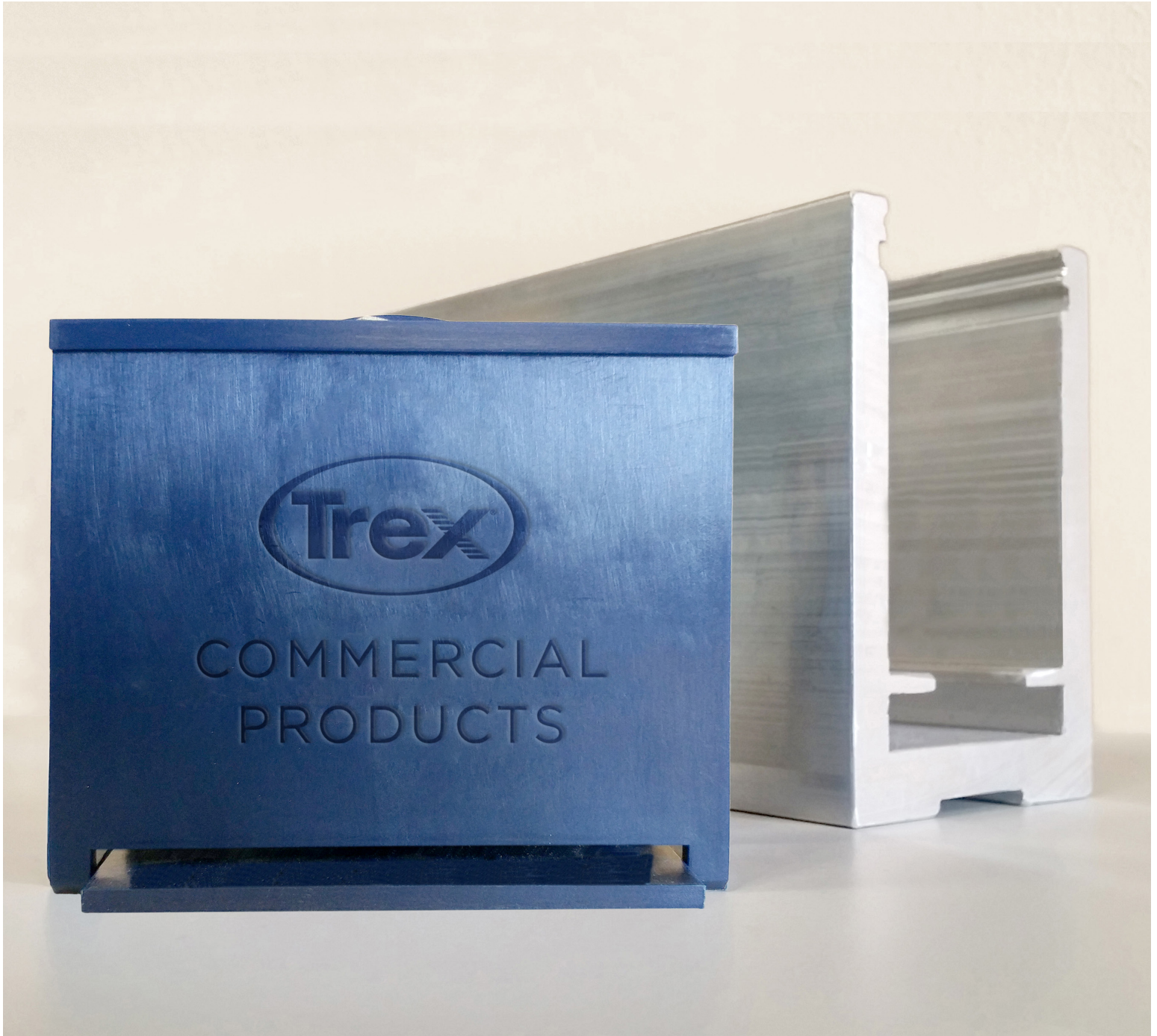


Dry Glaze Base Shoe System

U.S. Pat. No. 9,920,781 B2

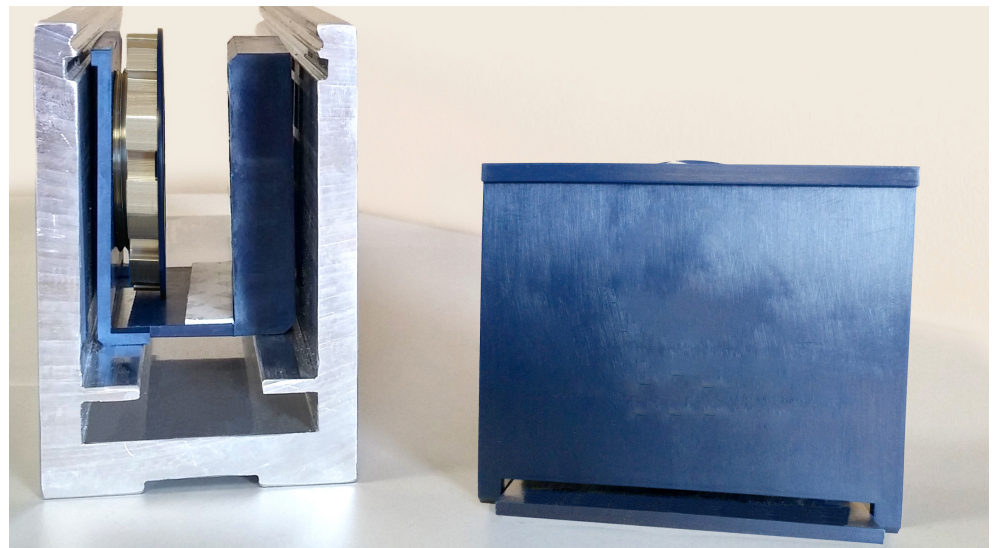
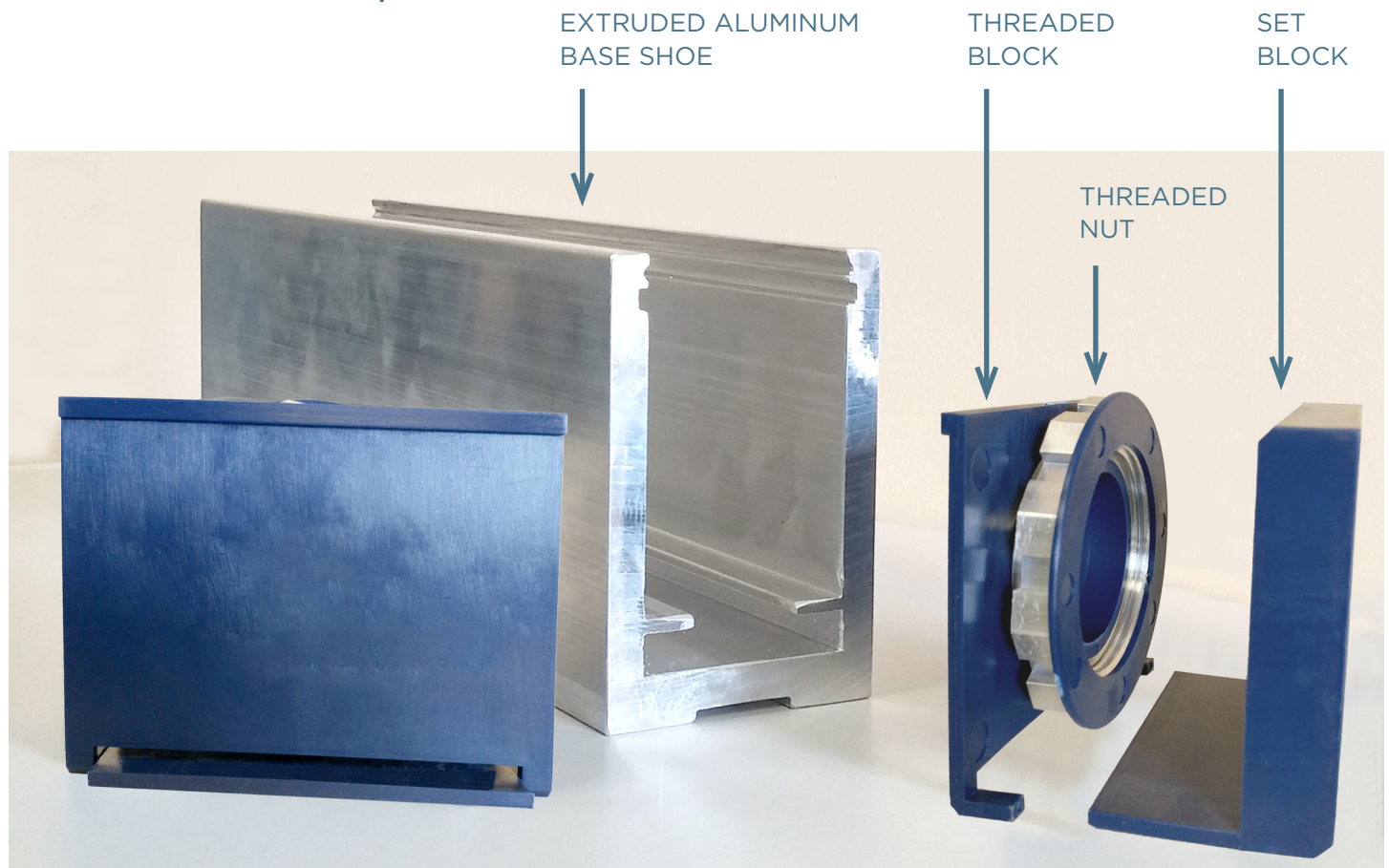
GlassNut provides a fast and cost effective alternative to traditional wet glazed systems. The GlassNut utilizes a threaded setting block affixed to a simple locking nut securing the glass infill into a Trex Commercial Products base shoe. The system provides our customers with a fast, simple and safe IBC compliant system to meet their project needs.

COMMERCIAL
PRODUCTS



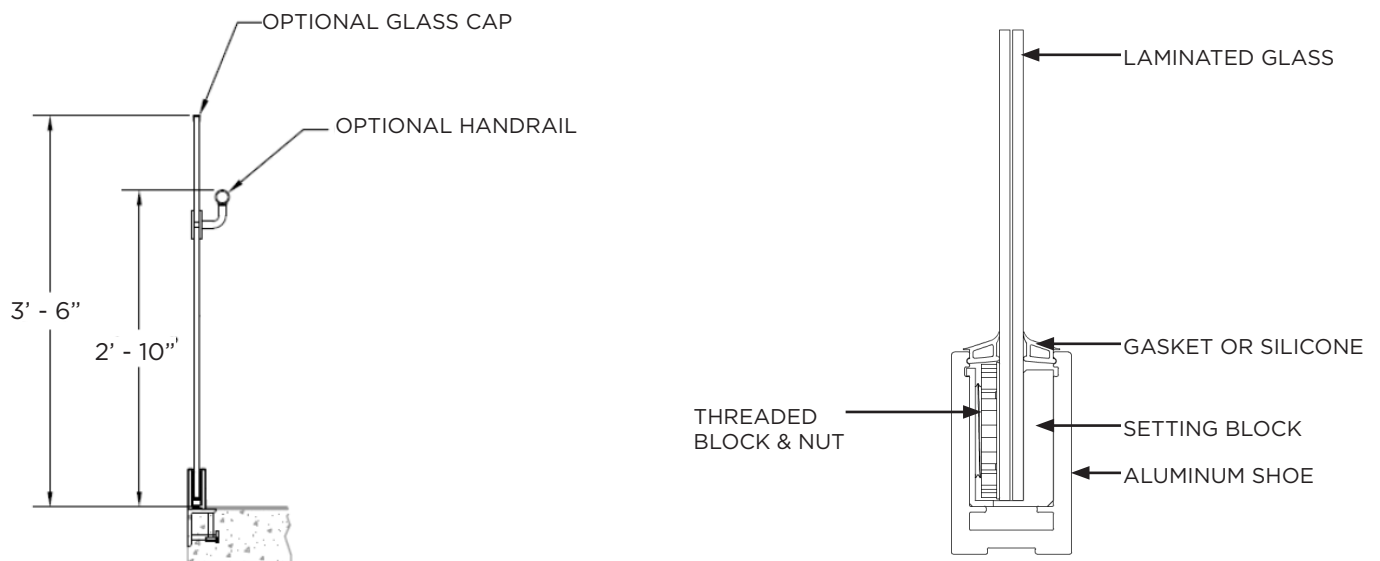
GlassNut - Dry Glaze Base Shoe System

Standard GlassNut Components



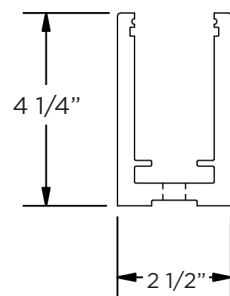
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Handrail Configuration and GlassNut Assembly

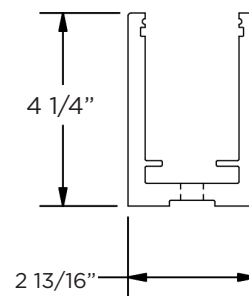


Shoe Profiles

1/2" GLASS SHOE

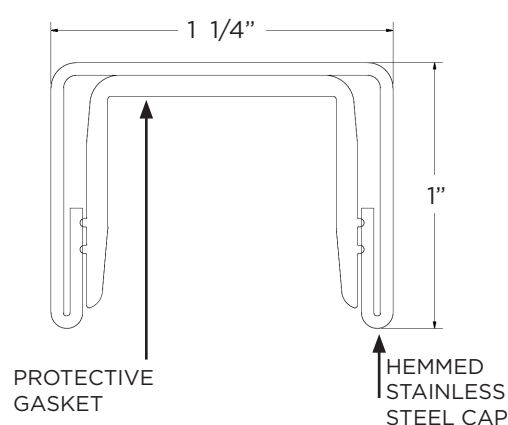
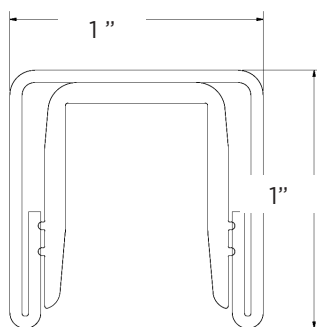


3/4" GLASS SHOE



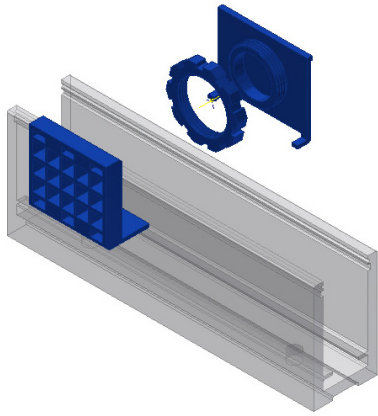
Optional Cap Profiles

Multiple custom options available

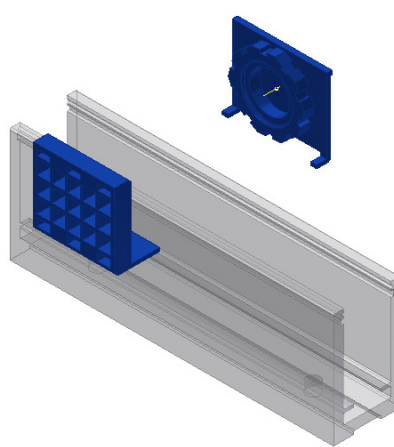


GlassNut - Dry Glaze Base Shoe System

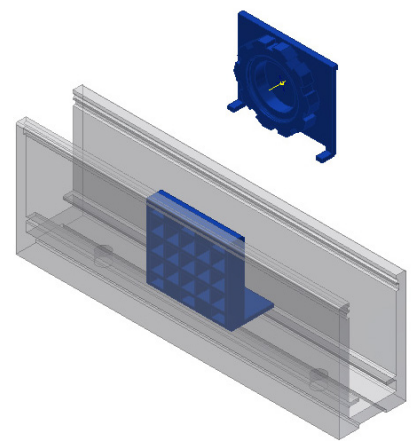
Standard GlassNut Installation



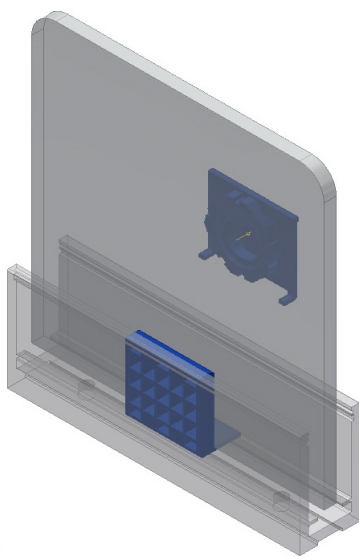
1. Once the GlassNut aluminum shoe is correctly anchored to the substrate, collect one Threaded Block, one Threaded Nut and one Set Block.



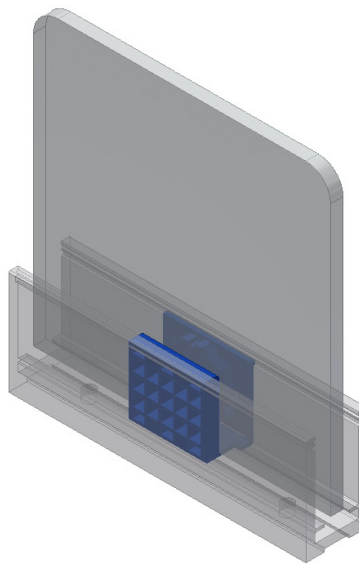
2. Fasten Threaded Nut onto Threaded Block.



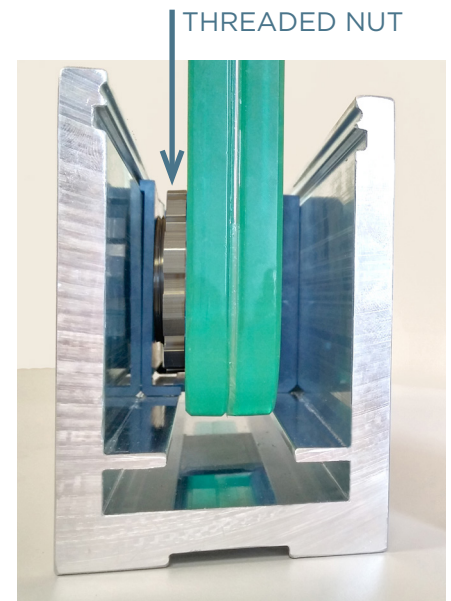
3. Place Set Block into the GlassNut Base Shoe on the fall side and remove the pre-installed adhesive strip.



4. Place glass into the aluminum shoe on top of the Set Block.



5. Place Threaded Block with threaded nut into the walking side of the aluminum base shoe.



6. Secure the glass in place by using the torque wrench tool to tighten the Threaded Nut (Reference the Torque Settings Table for proper torque requirements).

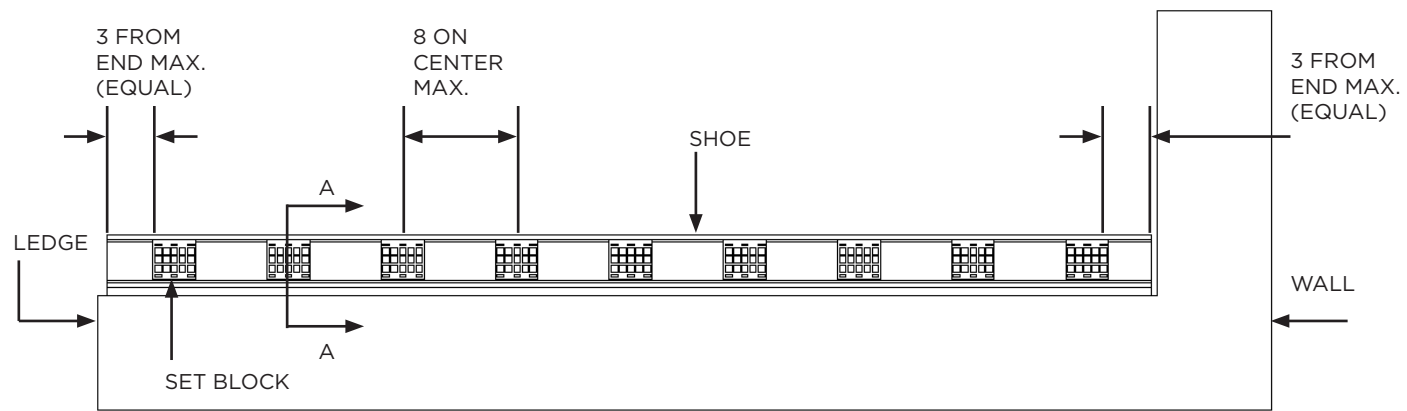


GlassNut - Dry Glaze Base Shoe System

Standard GlassNut Installation Continued

Spacing

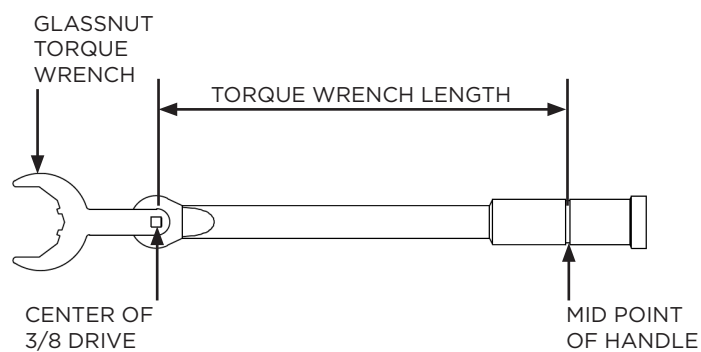
The spacing of the GlassNut shall not exceed 8" and shall not be positioned further than 3" from the end of the aluminum shoe.



Torque Settings

The GlassNut must be tightened to the appropriate torque settings using a calibrated torque wrench and GlassNut wrench. Reference the table below for specific torque requirement.

Table 1 - Torque Settings	
Torque Wrench Length	Torque Setting
6 in.	31 ft. lb.
8 in.	34 ft. lb.
10 in.	37 ft. lb.
12 in.	40 ft. lb.
14 in.	41 ft. lb.
16 in.	43 ft. lb.
18 in.	44 ft. lb.
20 in.	45 ft. lb.
24 in.	46 ft. lb.



GlassNut - Dry Glaze Base Shoe System

Gasket Installation

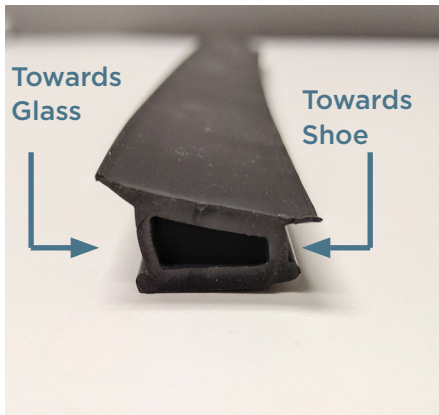


Figure 1

GlassNut gasket pictured above. The GlassNut gasket is designed to fit into the groove shown in Figure 4.



Figure 2

To install the GlassNut gasket, position it in the orientation pictured above. This orientation allows the gasket to be correctly seated when pressed into the shoe. Note the topmost groove on the shoe lines up with the notch on the gasket.



Figure 3

To install the GlassNut gasket, position it in the orientation pictured left. This orientation allows the gasket to be correctly seated when pressed into the shoe. Note the topmost groove on the shoe lines up with the notch on the gasket.

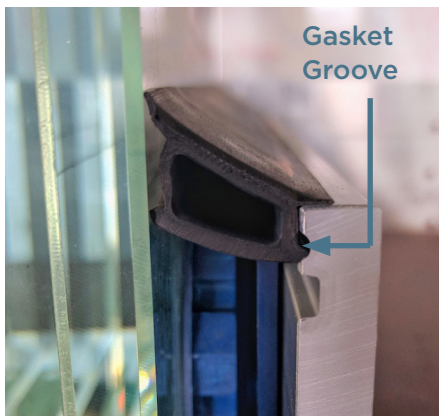


Figure 4

The gasket should be seated as depicted above at the end of the process. To ensure a uniform appearance the gasket should maintain a 1/8" clearance from the top of the GlassNut.

When encountering a corner in the track rail the gasket should be cut to align with the corner of the glass and the corner of the shoe. It is recommended to use an adhesive to join two pieces of gasket together to ensure a clean seam.

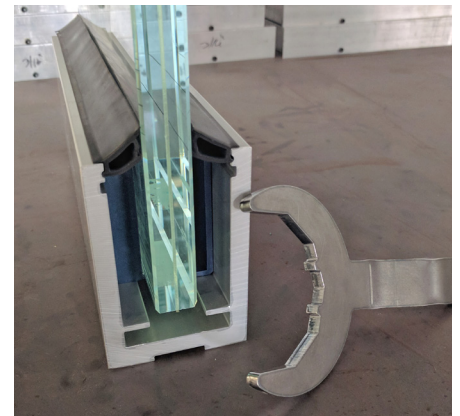
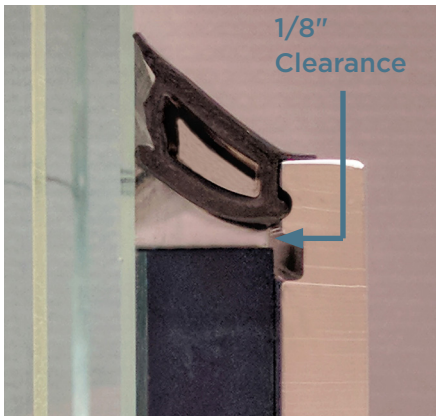


Figure 5

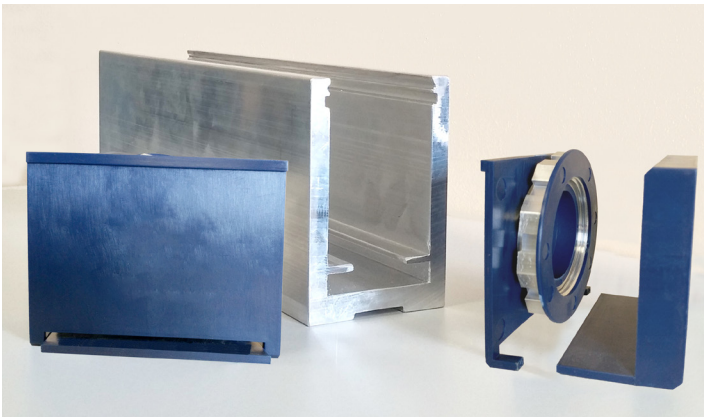
This is a completed GlassNut assembly cross section. Note the smooth finish of the gasket and centered positioning of the glass. The GlassNut system is an easily adjustable, easily repaired system that forgoes the difficulties of using wet grout and allows quick, easy installation with a minimal crew.



GlassNut - Dry Glaze Base Shoe System

Technical Specifications

Material:	Aluminum (6061-T6 or Equivalent)
GlassNut Spacing:	8" On Center
Mount Type:	Top, Embed or Fascia
Mounting Substrates:	Concrete and Steel
Cladding Options:	Stainless Steel
Component Finish:	Anodized - Standard (Paint options available)
Dry Glaze Component:	Glass Reinforced Polymer/Aluminum/Stainless Steel
Top Cap/Handrail:	Optional (Multiple custom options available)
Infill options:	1/2" - 3/4" Tempered Laminated or Monolithic Glass
Silicone Options:	Black, Clear or Colored Silicone
Gasket:	Black Gasket
Tools Required:	GlassNut Torque Wrench (Reference below table for torque settings)
ASTM STDS:	E935 and E985
IBC Compliance:	IBC 2003, 2006, 2009, 2012 and 2015 compliant



GlassNut - Dry Glaze Base Shoe System

Track Rail system with GlassNut

