

# IMPERIA



GLASS RAILING

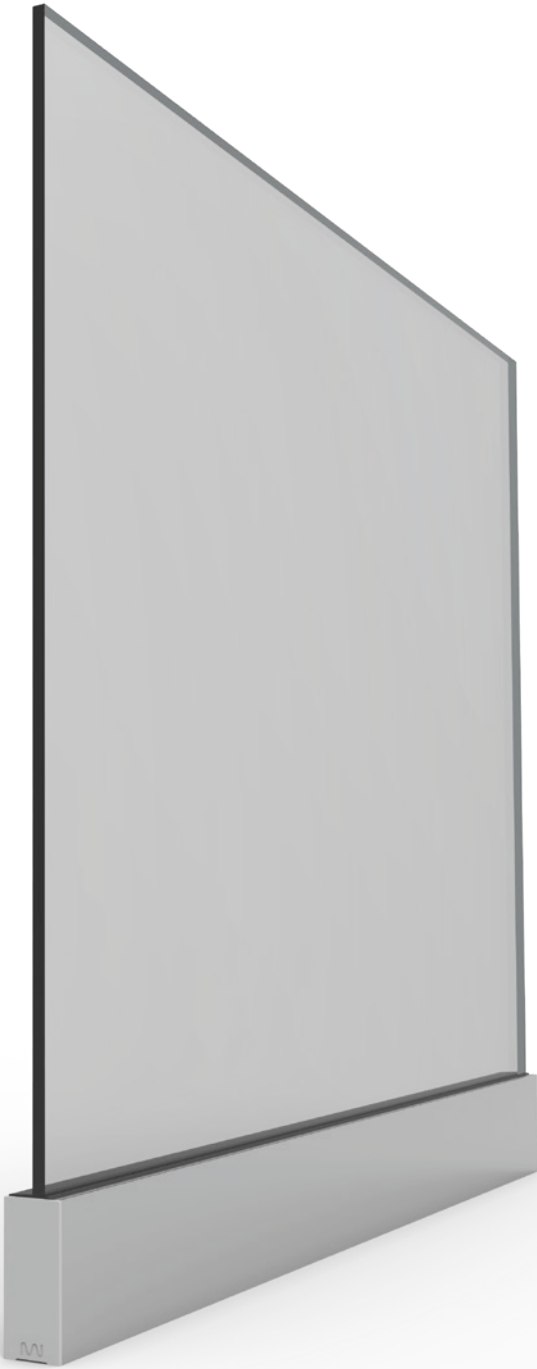
MALU WIND  
Aluminum Extrusions



*Your Profile*

# K1

## High Aesthetic Appeal



**MIAMI DADE COUNTY  
APPROVED**

NOA #20-1021.03

- K1 has been specifically designed to provide great-looking, cost-effective solutions that conform to EU building regulations.
- NOA #20-1021.03
- Max. glass panel height 44".  
5ft (1.5meters) length.

### Included items

Aluminum profile (drilled)  
Installation kit: rubber gaskets,  
and plastic chocks.



Base shoe



rubber gaskets



chocks

### NOT Included items



Chemical anchor



Screw bolt

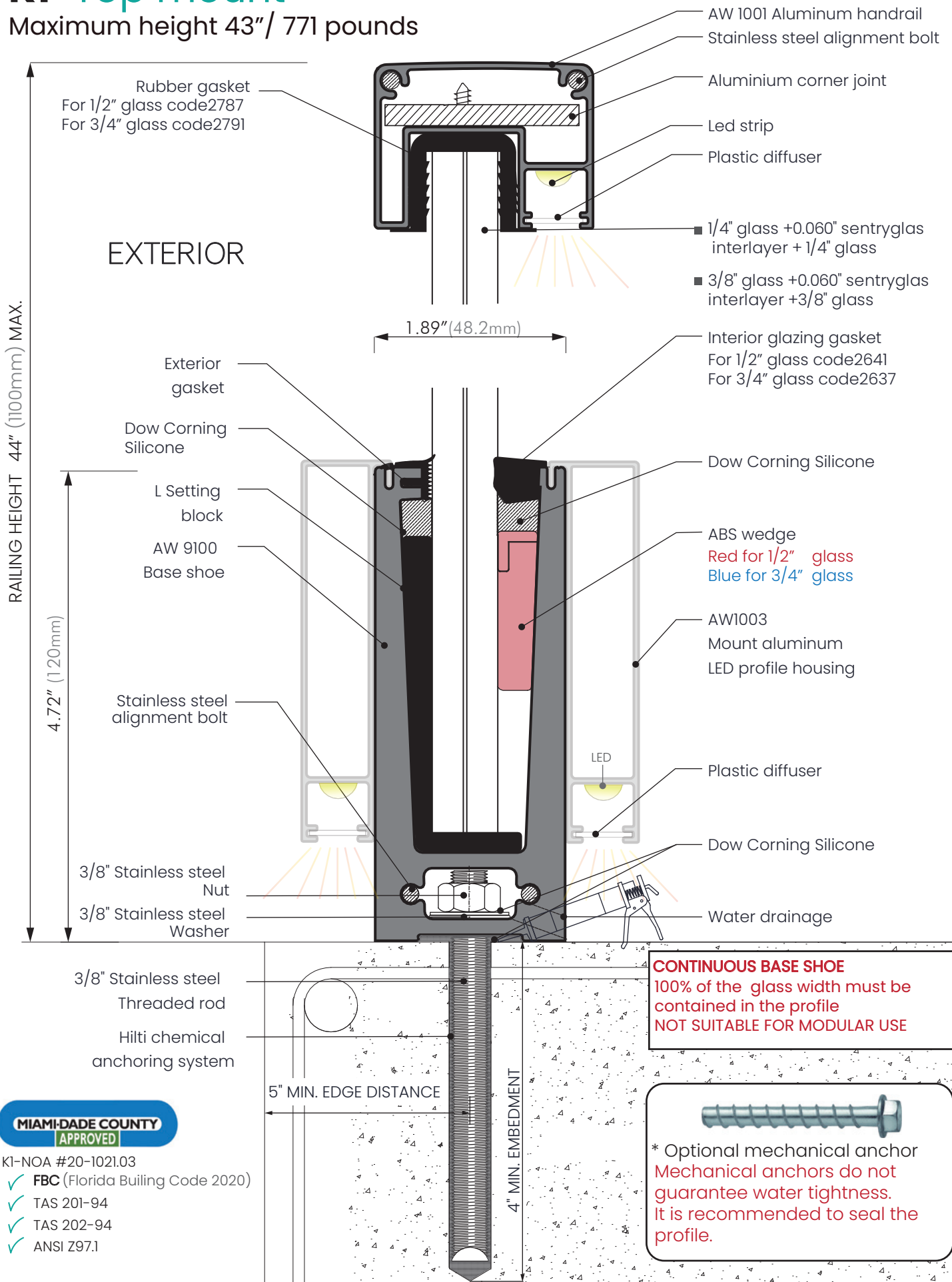
### Glass Required

GLASS TYPE A	Total	Panel composition
	0.50"	0.25" glass +0.060" sentryglas interlayer + 0.25" glass
	1/2"	1/4" glass +0.060" sentryglas interlayer + 1/4" glass
	12mm	6mm glass +1.52mm sentryglas interlayer +6mm" glass

GLASS TYPE B	Total	Panel composition
	0.78"	0.39" glass +0.060" sentryglas interlayer + 0.39" glass
	13/16"	3/8" glass +0.060" sentryglas interlayer +3/8" glass
	20mm	10mm glass +1.52mm sentryglas interlayer +10mm" glass,

# K1-Top mount

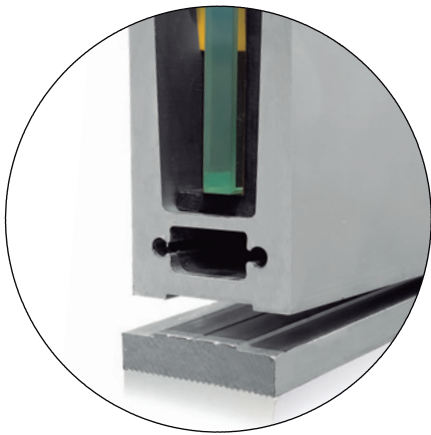
Maximum height 43"/ 771 pounds



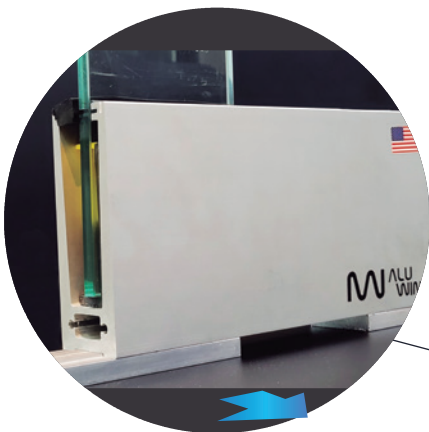
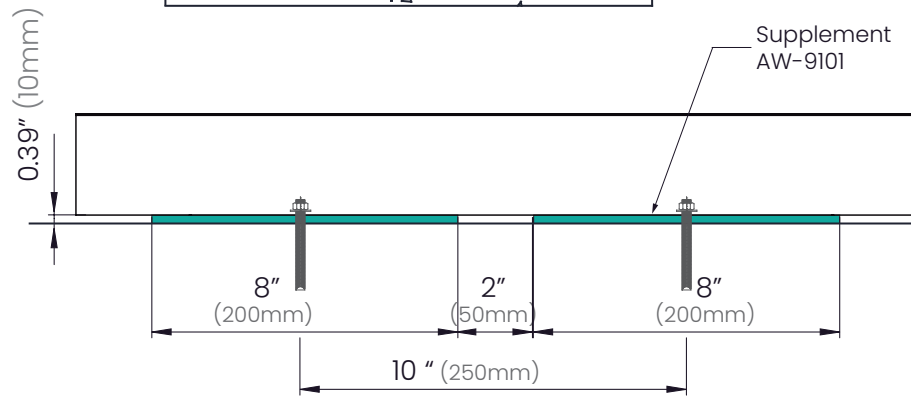
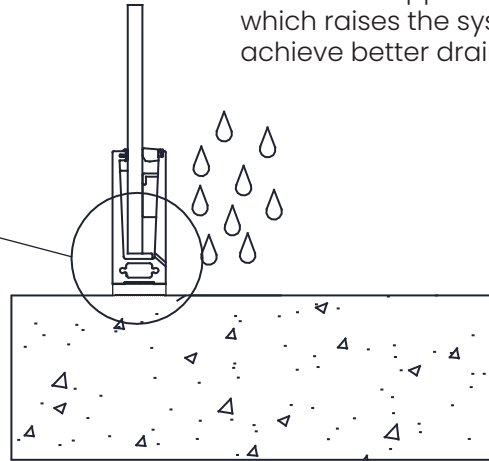
- K1-NOA #20-1021.03
- ✓ FBC (Florida Building Code 2020)
- ✓ TAS 201-94
- ✓ TAS 202-94
- ✓ ANSI Z97.1

## DRAINAGE SUPPLEMENT

NOTE: On areas exposed to greater water load is recommended the use of supplement AW-9101 which raises the system to achieve better drainage.



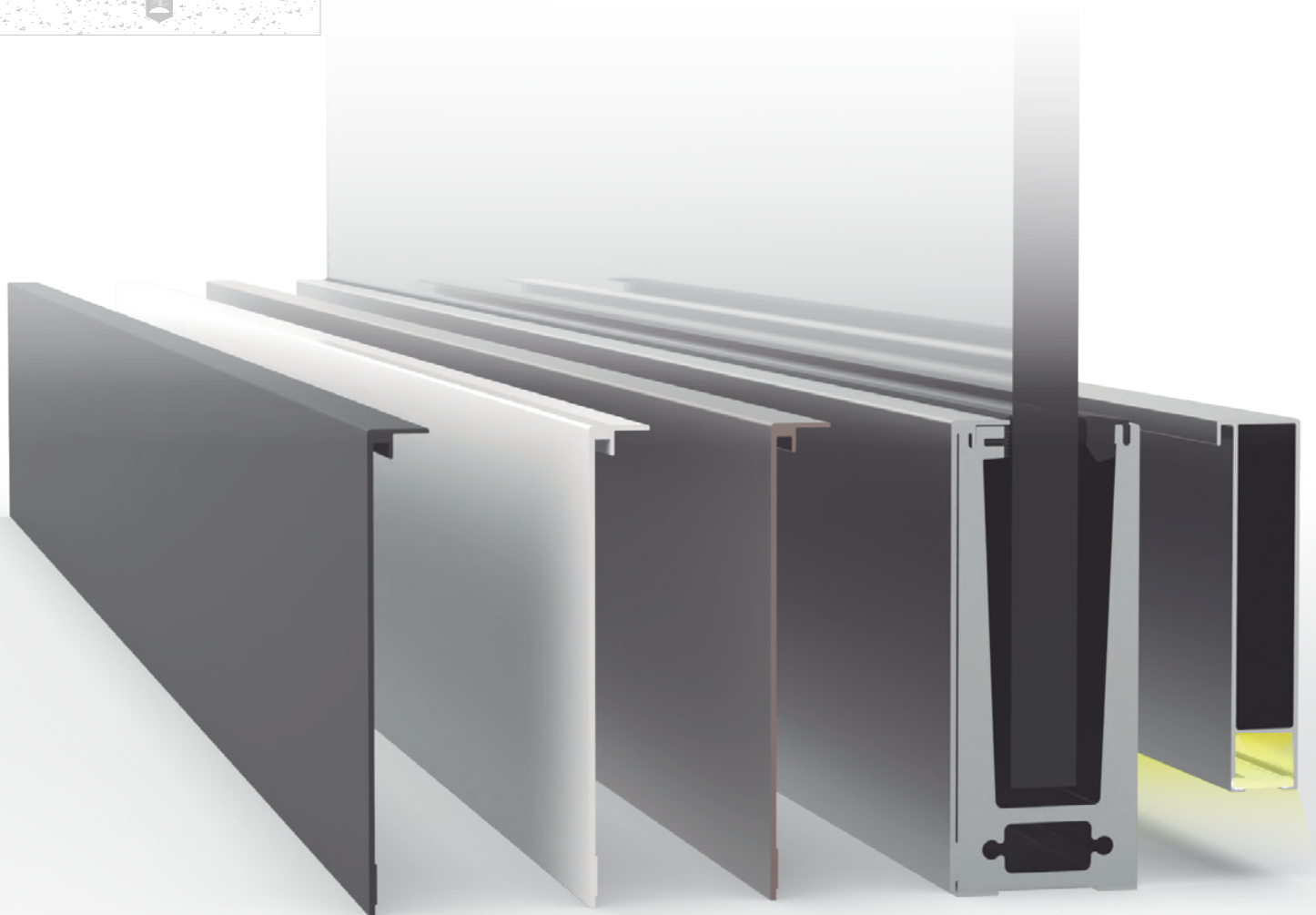
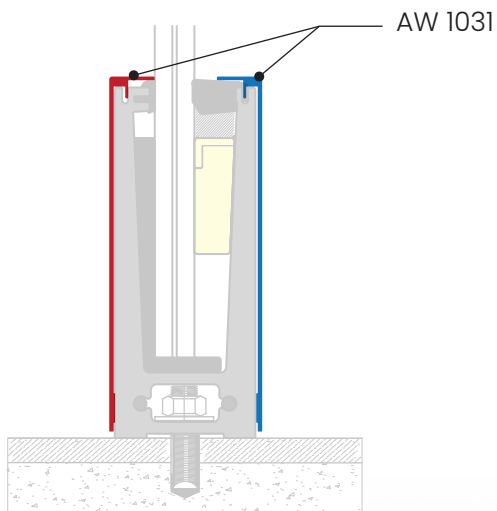
9101 Supplement



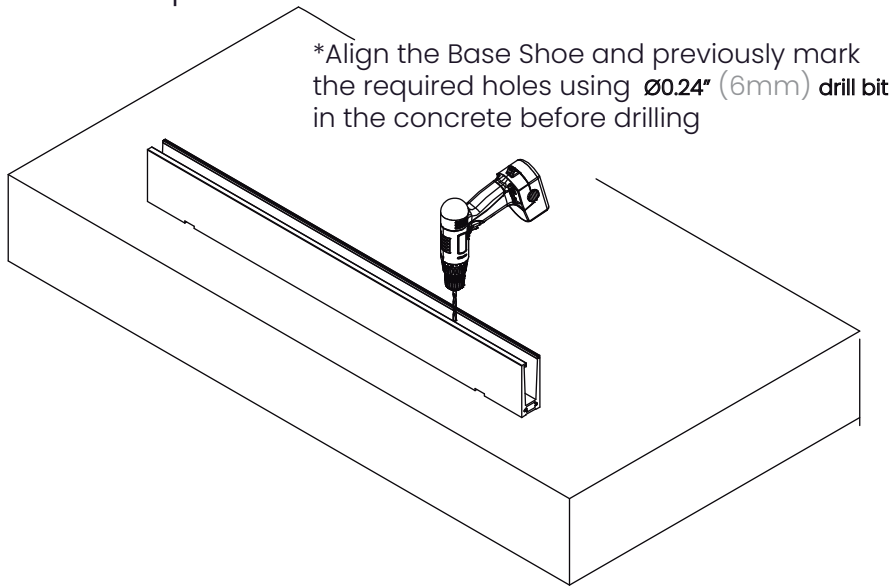
## K1 aluminum fascia

Renewing your K1 is now quick and easy

- ✦ Now is possible to change the color of your railing without replacing the base shoe.
- ✦ The external and internal lids are separate, allowing the combination of colors
- 💰 You can utilize the raw base shoe and apply the finish on the fascias.



1- Place the profile and mark the concrete surface



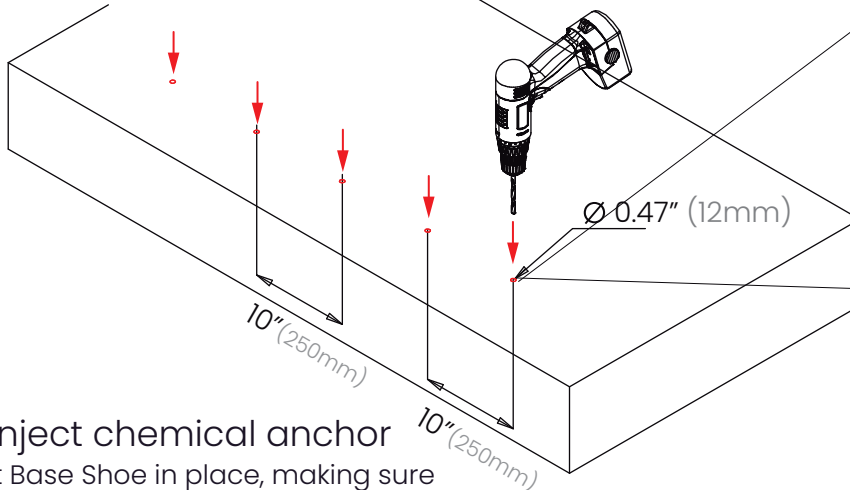
**! VERY IMPORTANT!**  
**LEVEL THE SURFACE**



**CHECK THE PROFILE IS PERFECTLY LEVELLED** otherwise the glass won't be perfectly vertical

2-Drill 9cm into concrete slab and clean the dust

Drill  $\text{Ø}0.47''$  (12mm) holes for threaded rod and chemical anchor  
Drill  $\text{Ø}0.39''$  (10mm) holes for mechanical anchor

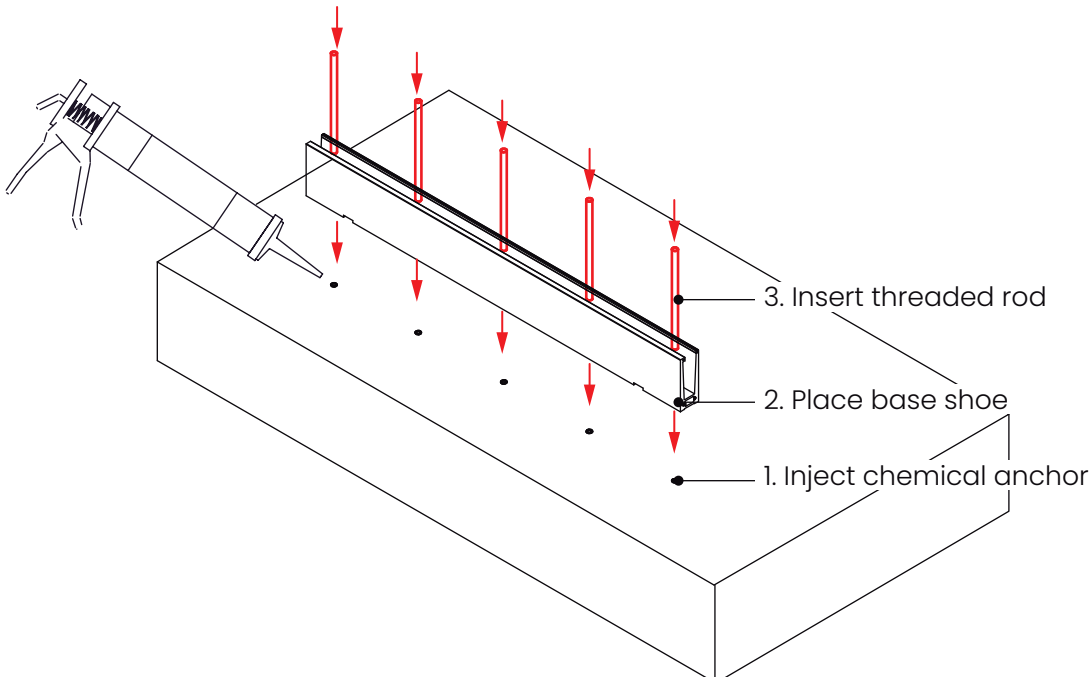


3.Inject chemical anchor

Set Base Shoe in place, making sure the Base Shoe holes match the slab holes

**WARNING!**

Drill bit must be buried minimum  $3\frac{1}{2}''$  (90mm) into slab. Take account of the floor binder as well as the profile thickness.

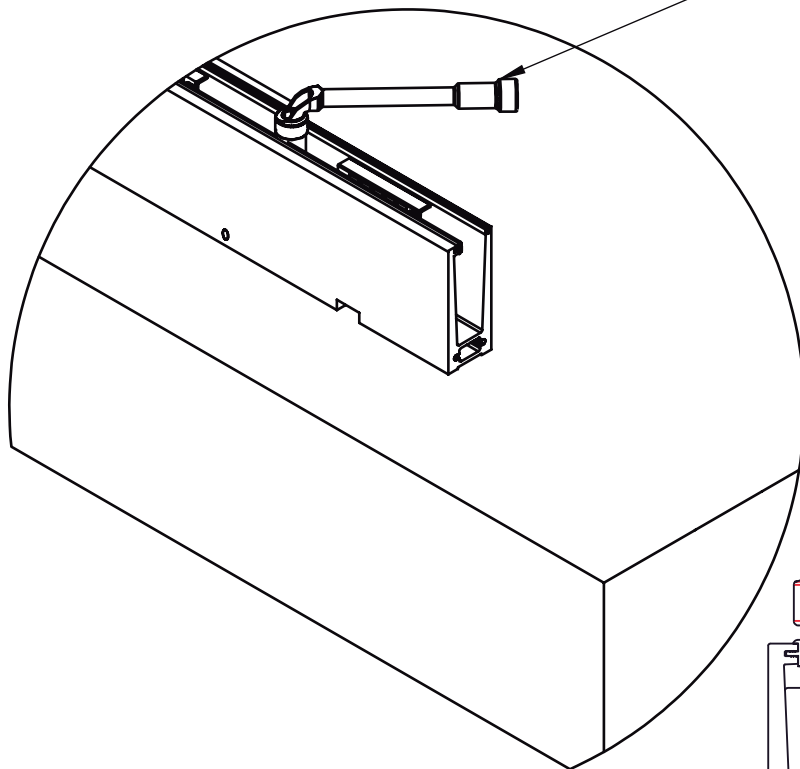


**! It is MANDATORY** to clean the dust from the slab-holes before injecting the chemical anchor/ inserting the mechanical anchor

**! It is VERY IMPORTANT** to place the base shoe before inserting the threaded rod for proper alignment

4- Tighten nuts and washers

14mm Socket wrench

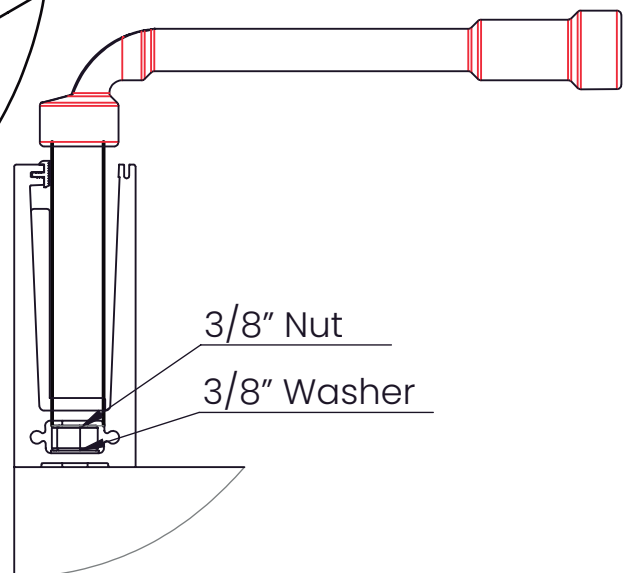


Note: Tighten until achieving 6Kn of torque in a dried and clean condition



**VERY IMPORTANT!**

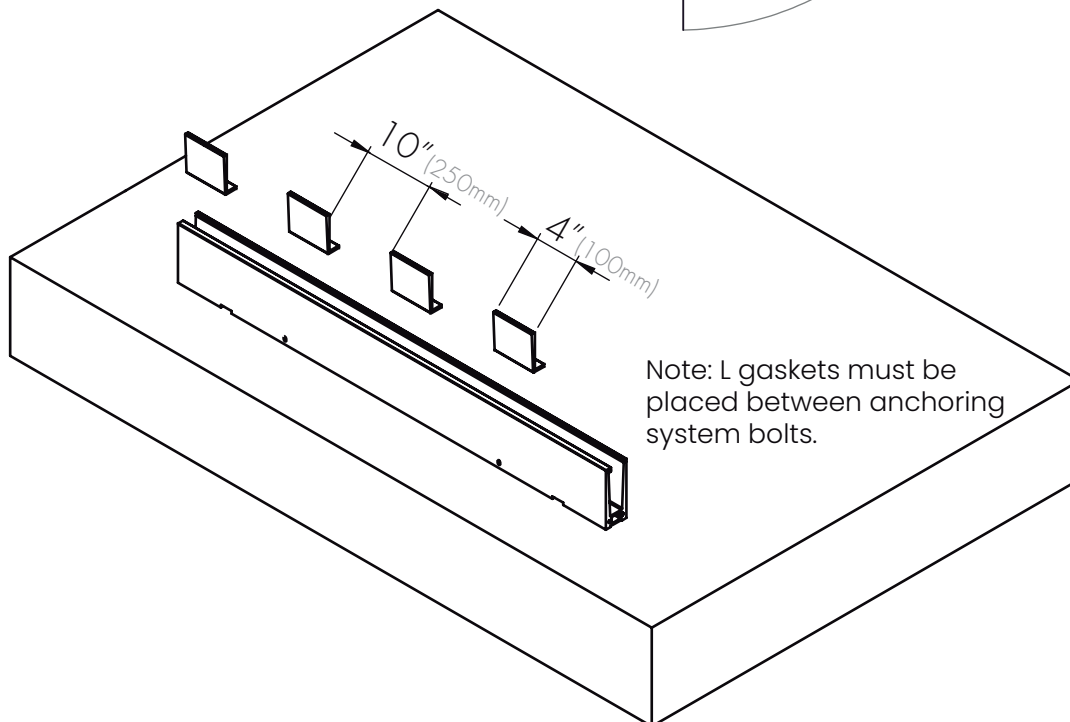
**The profile must always be in full contact with the surface**



3/8" Nut

3/8" Washer

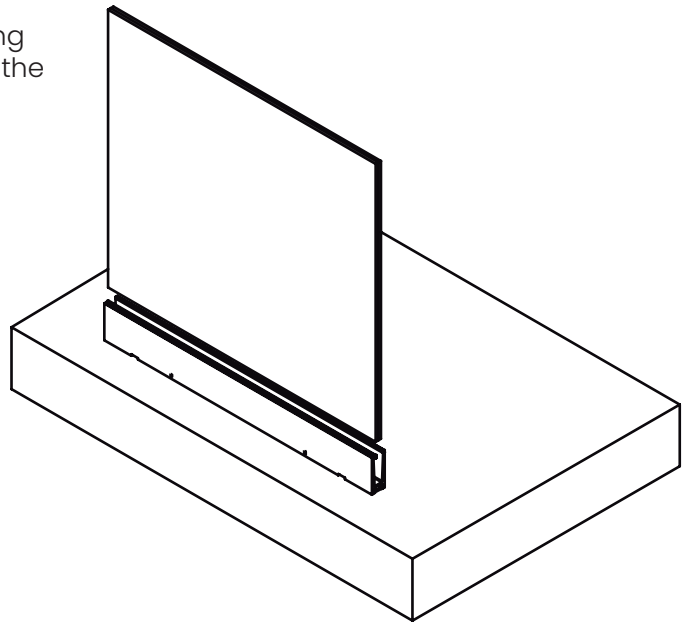
5- Place all L setting blocks into the base shoe cavity.



Note: L gaskets must be placed between anchoring system bolts.

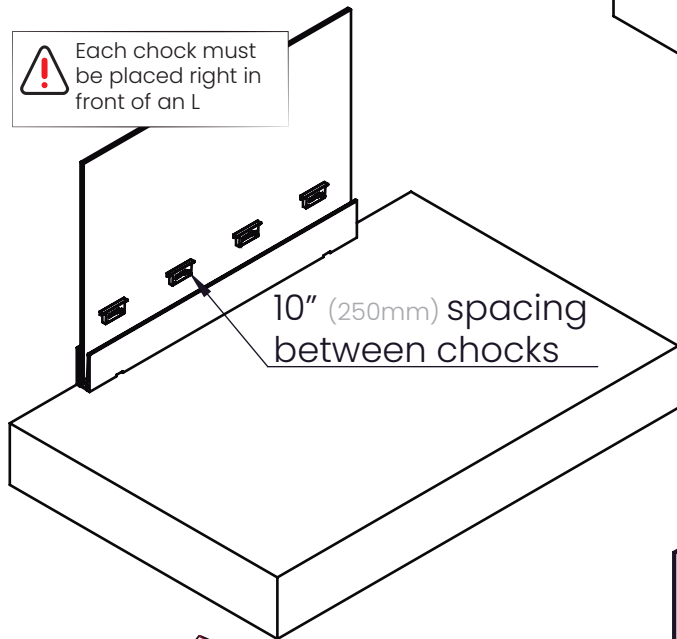
### 6- Glass Panel Installation

Before installing the glass panels the L-Setting Blocks must be adhered onto the bottom of the base shoe

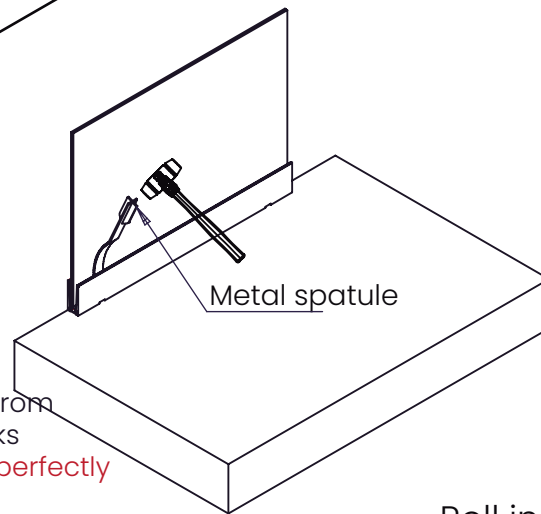


### 7- Plastic chocks installation

**!** Each chock must be placed right in front of an L



### 8- Use Installation/Removal Tool (spatule) to lock the glass securely in place

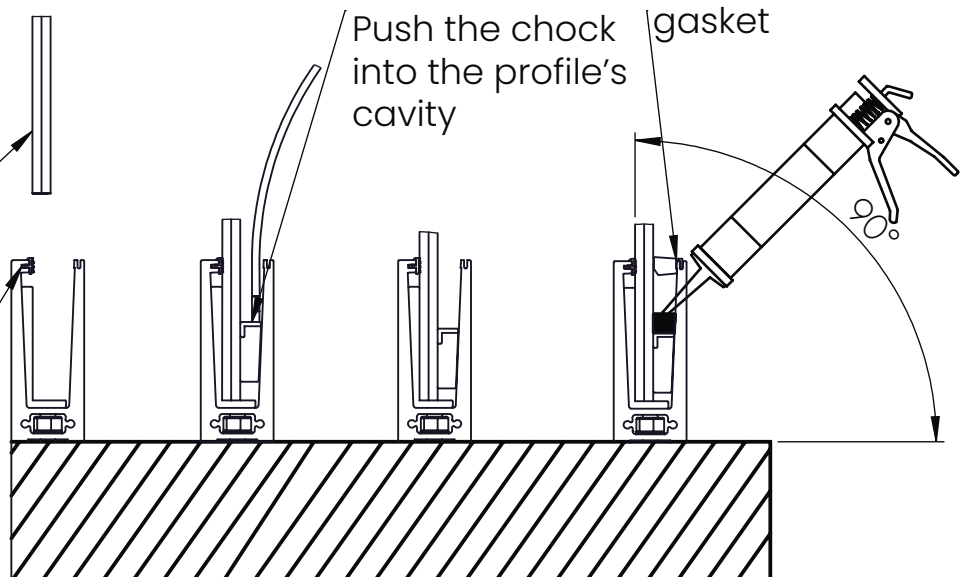


Put the glass above L setting Block

Roll in exterior gasket

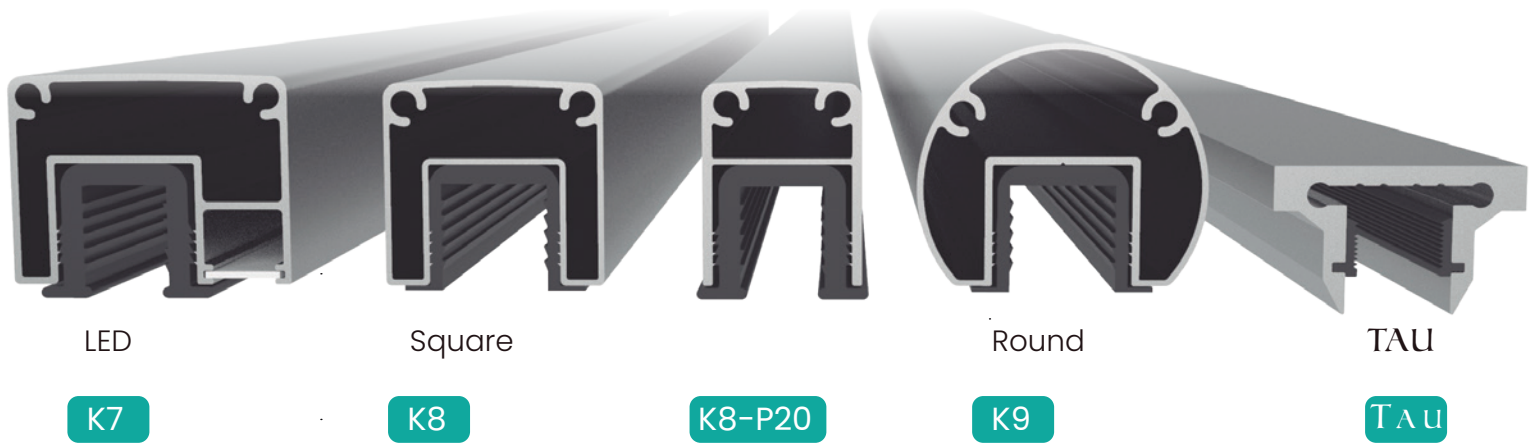
Push the chock into the profile's cavity

Roll in the Interior Glazing gasket





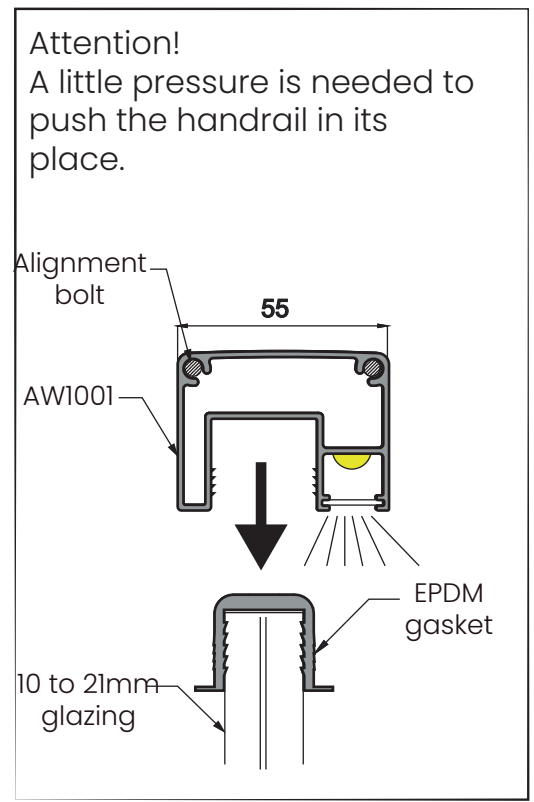
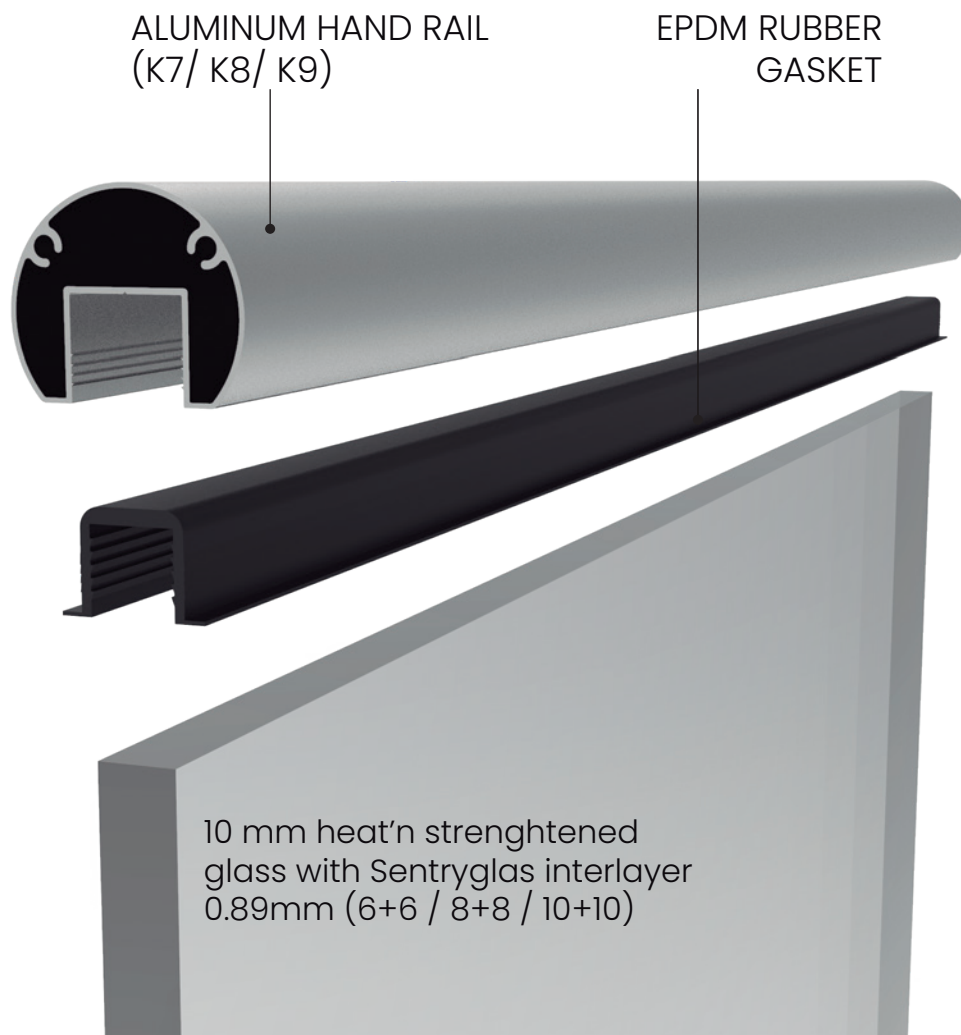
## HANDRAIL systems



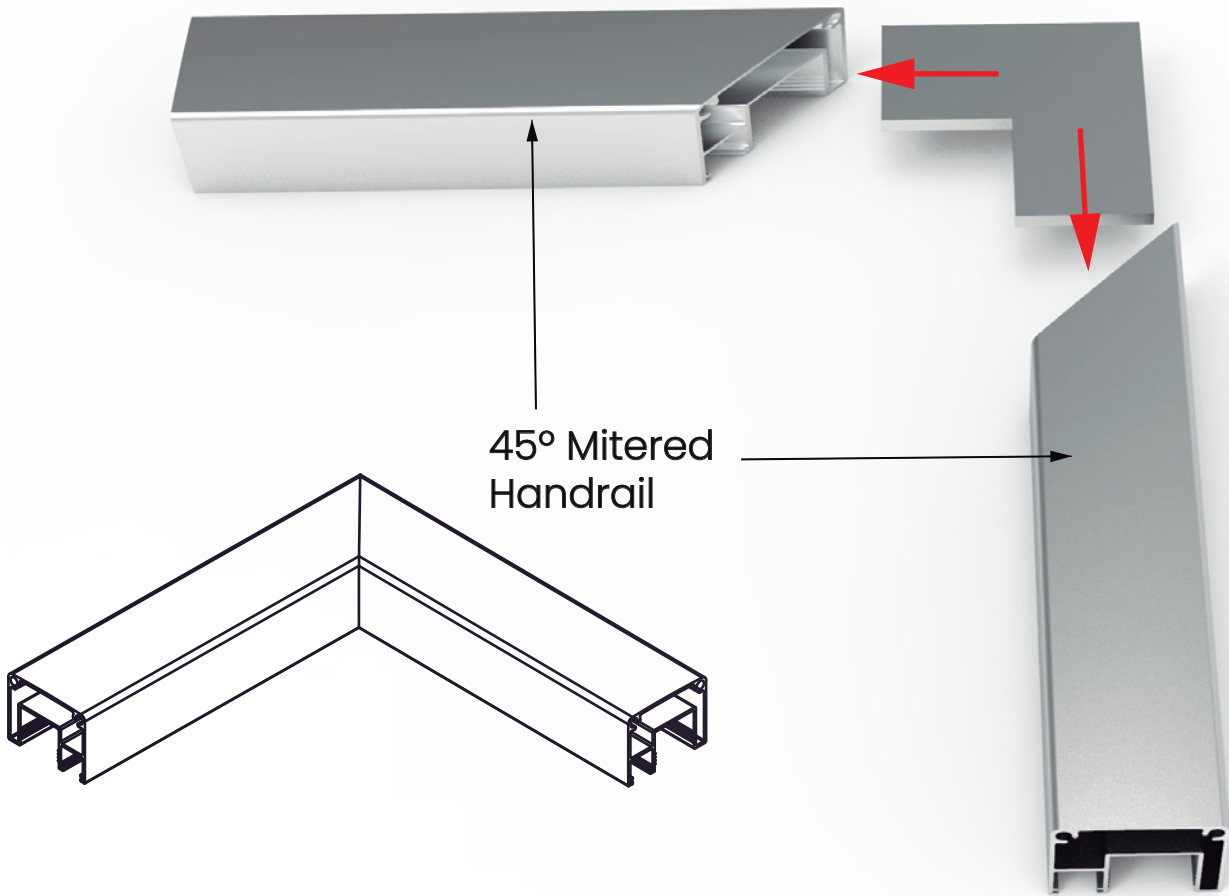
### K7/ K8/ K9 Handrail installing

\*First place the rubber gasket on top of the glass and then press the aluminum profile over it.

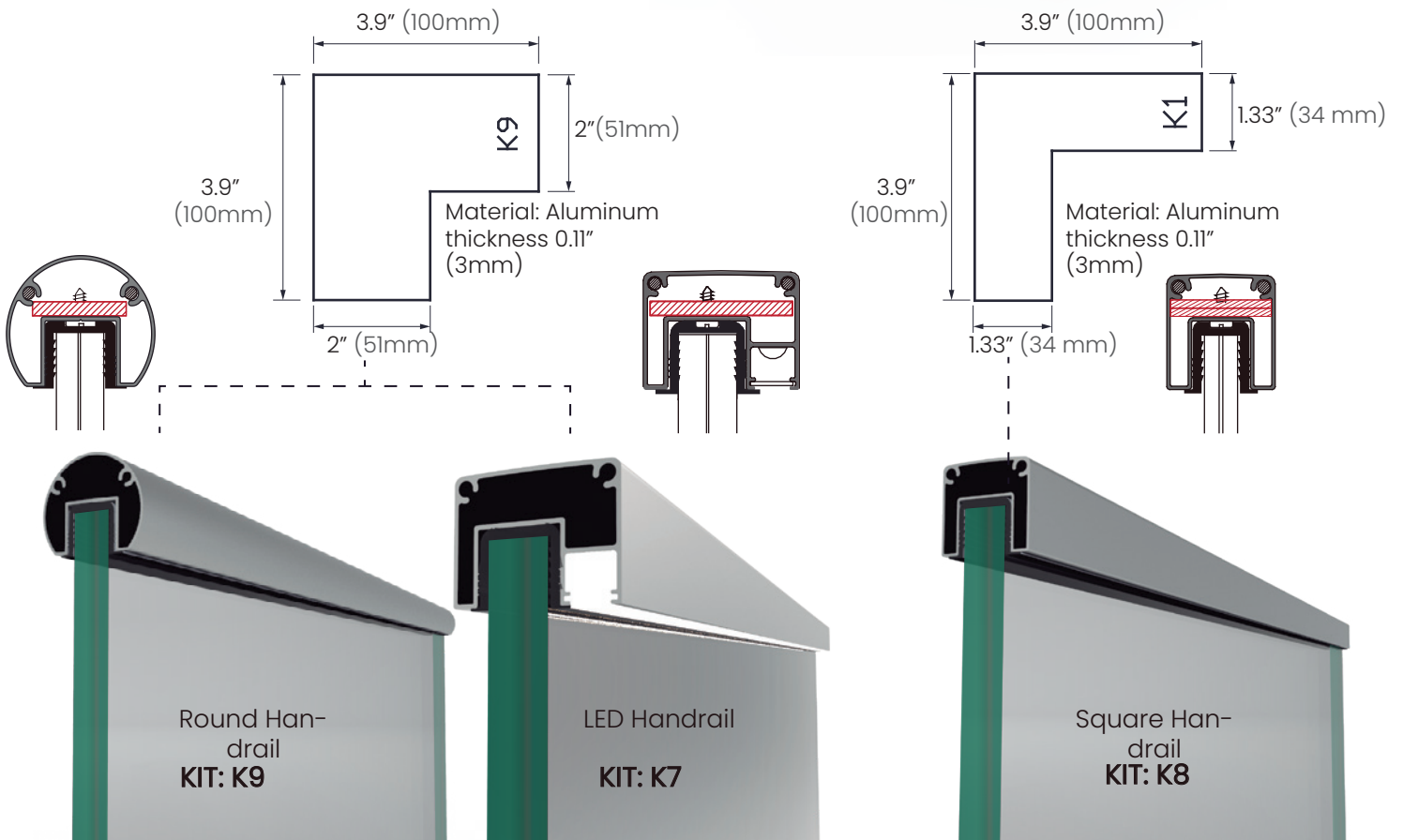
\*\*With 8+8 and 10+10 glazing, place the rubber gasket inside the aluminum profile and then



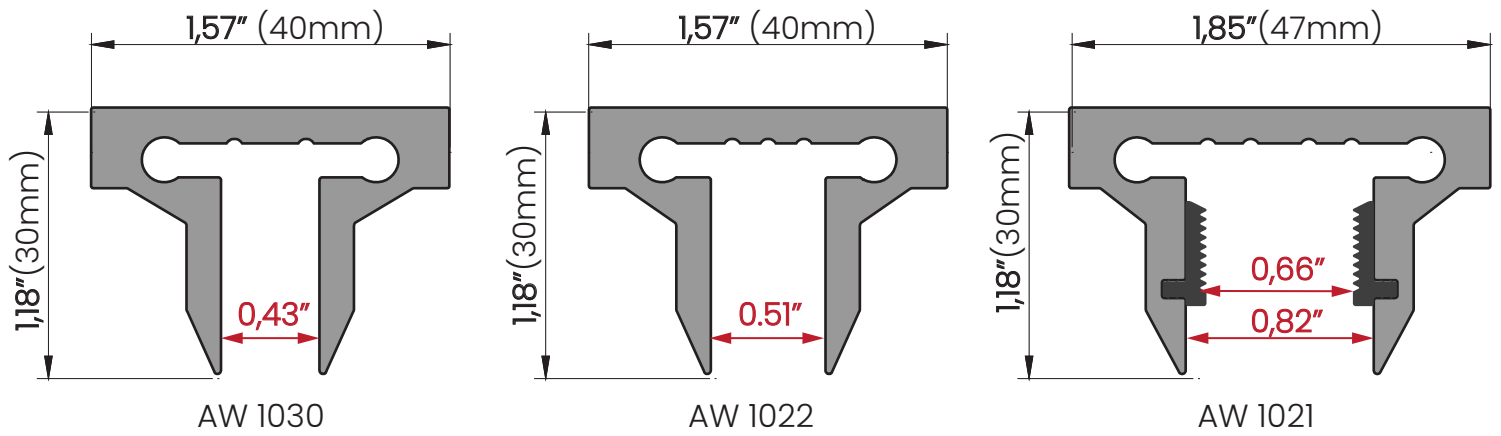
Aluminum L Shape Corner joint



45° Mitered Handrail

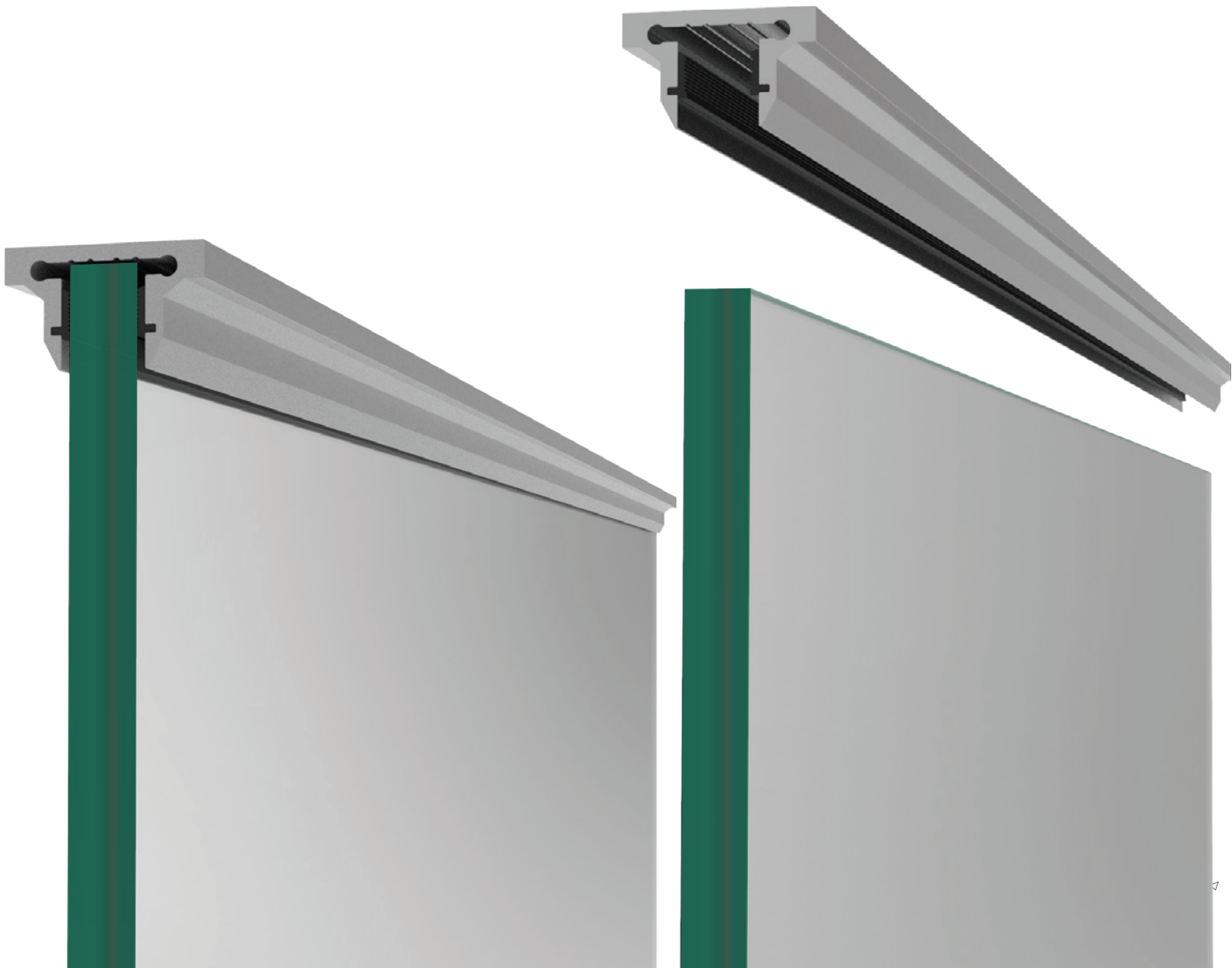


# TAU

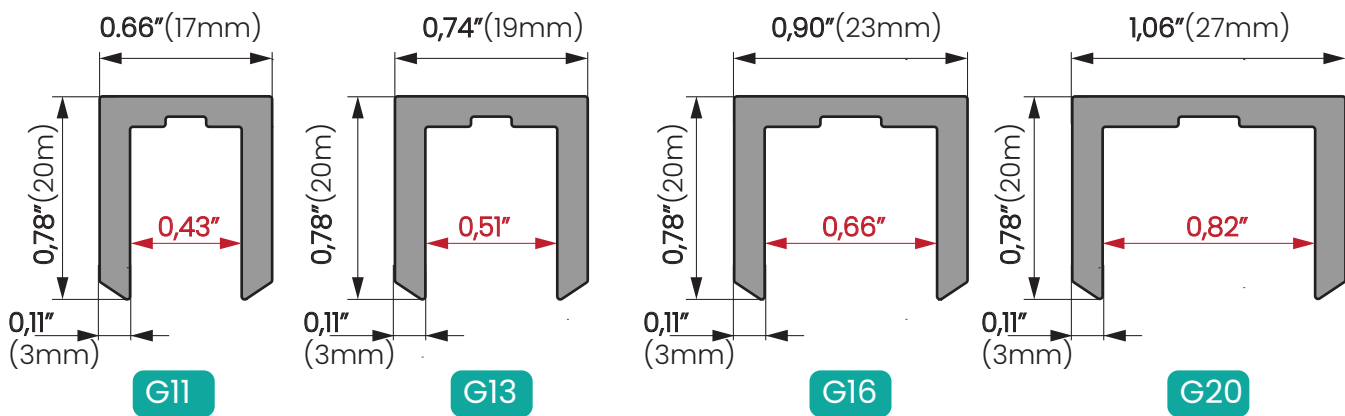


## Tau installing

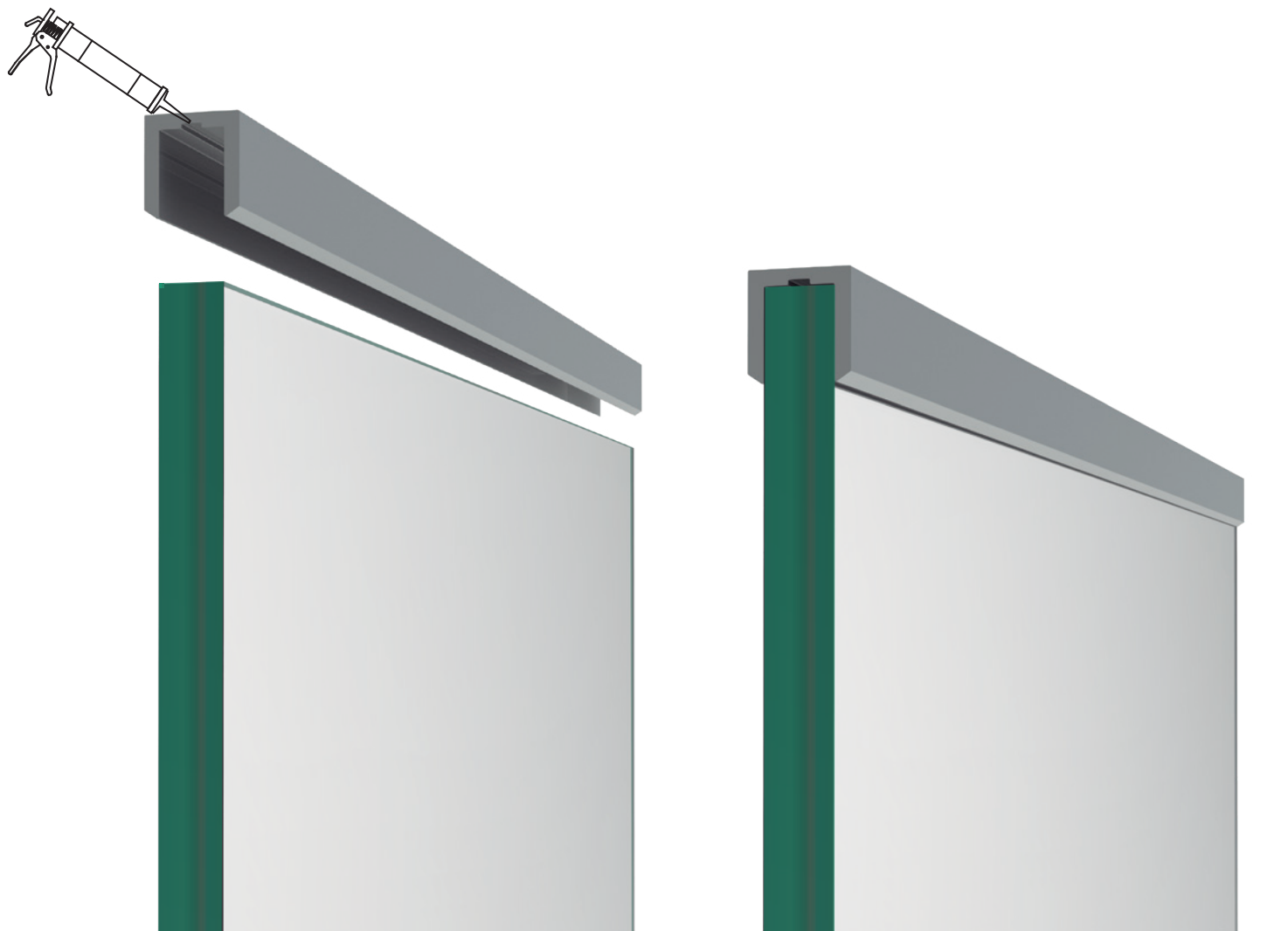
Use a line of sealant on top of the glass and place the handrail



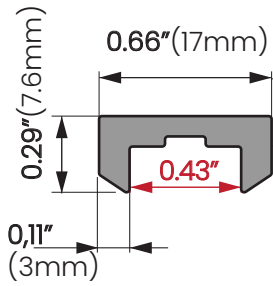
## U channel



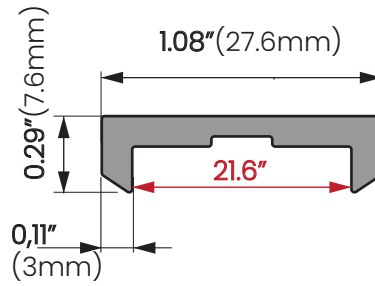
- Protects the top of the glass panels.
- Made for 10mm and tempered laminated 5+5 / 6+6 / 8+8 / 10+10
- Length: 236" (6 meters).
- Use a line of sealant on top of the glass and place the U channel



## U channel

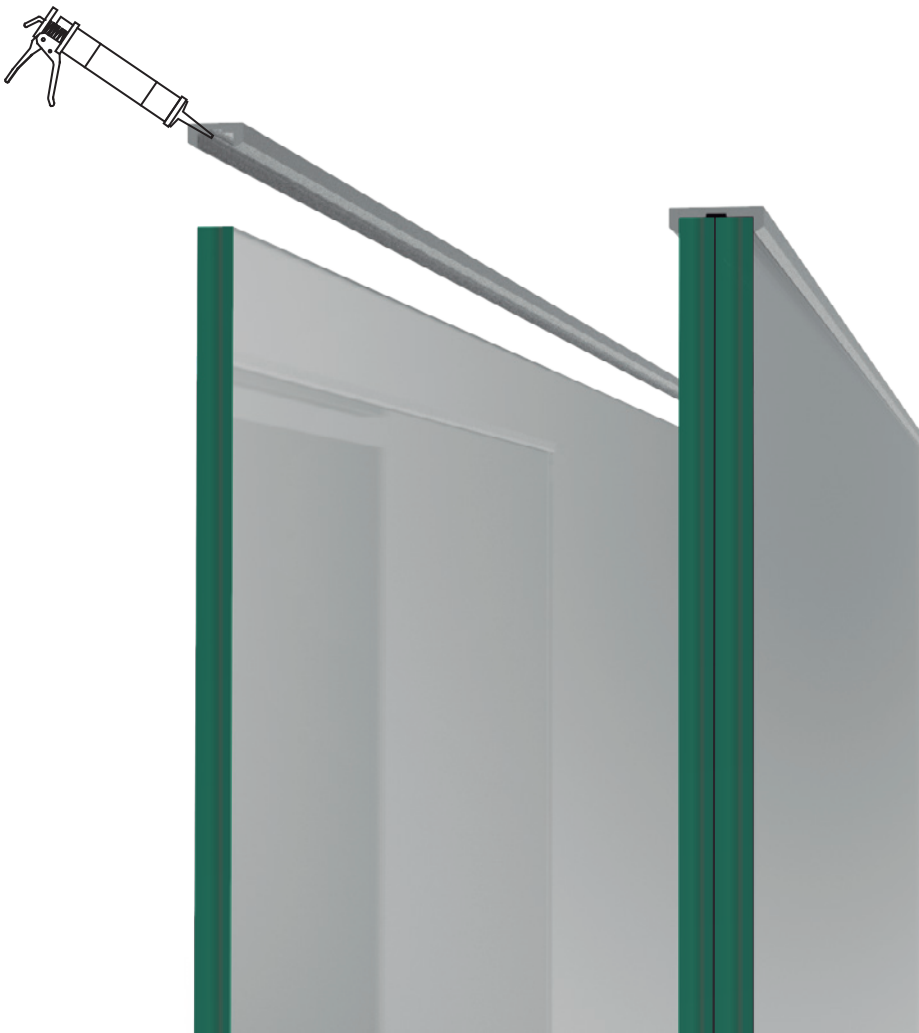


U10



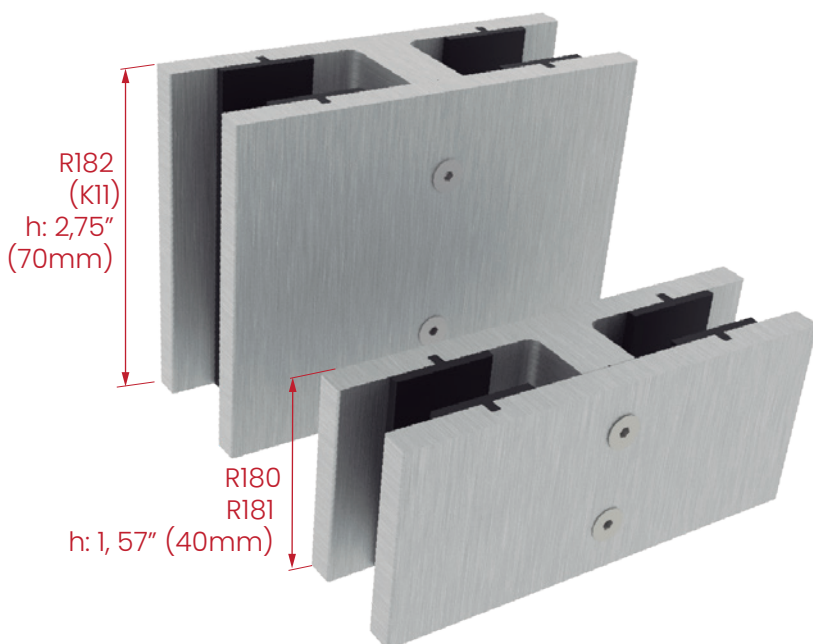
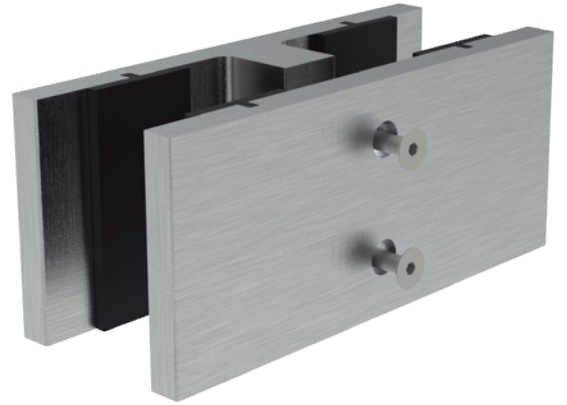
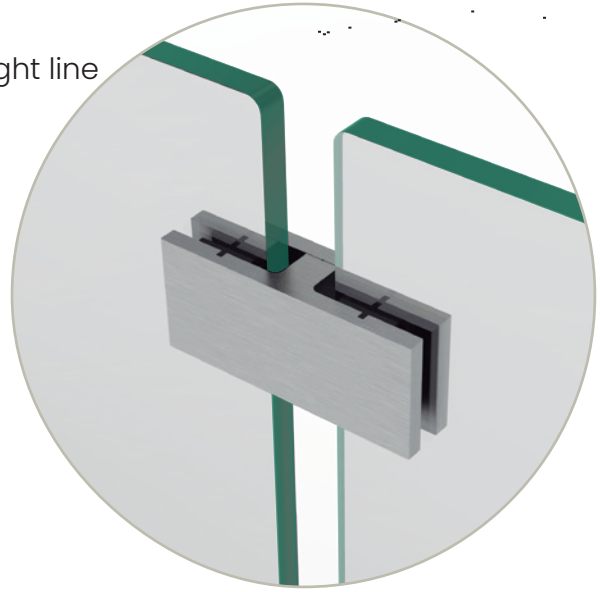
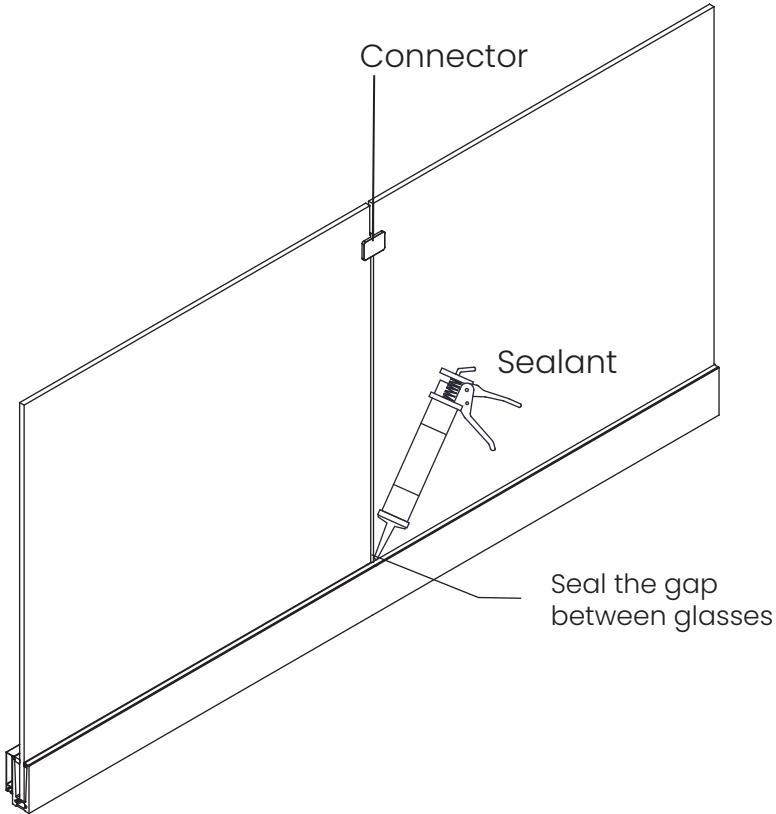
U20

- Protects the top of the glass panels.
- Made for tempered laminated 5+5 / 10+10
- Length: 236" (6 meters).
- Use a line of sealant on top of the glass and place the U channel

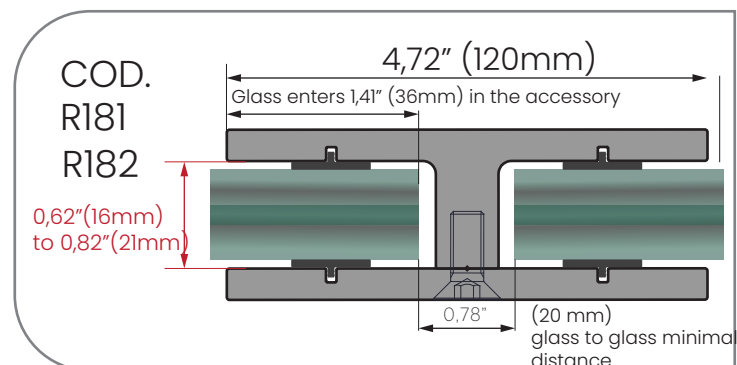
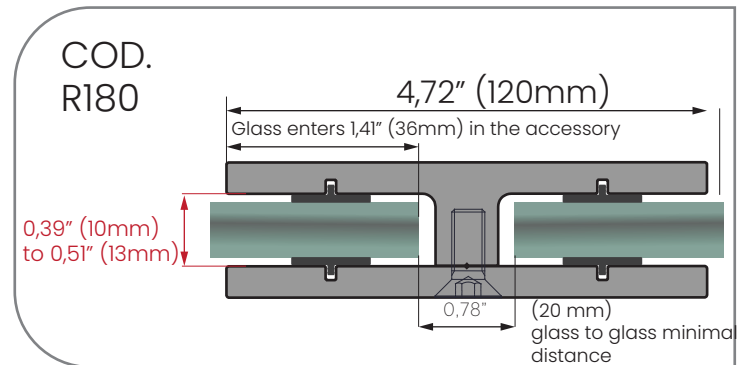


## 180° Glass connector

- Fixed bracket to connect two glass panels in a straight line
- 6063 alloy
- Suitable for various glass types and thicknesses
- Anodized 20 microns

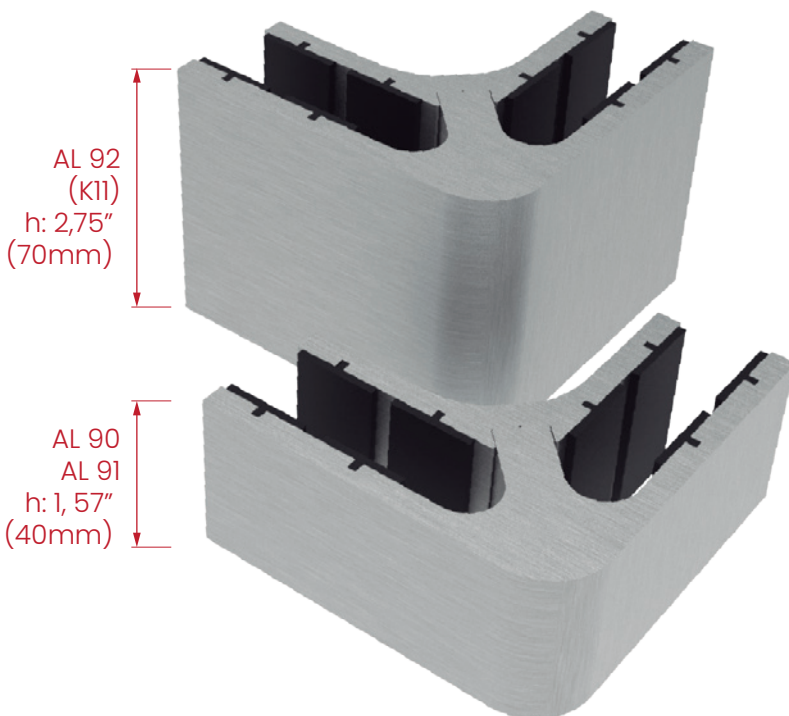
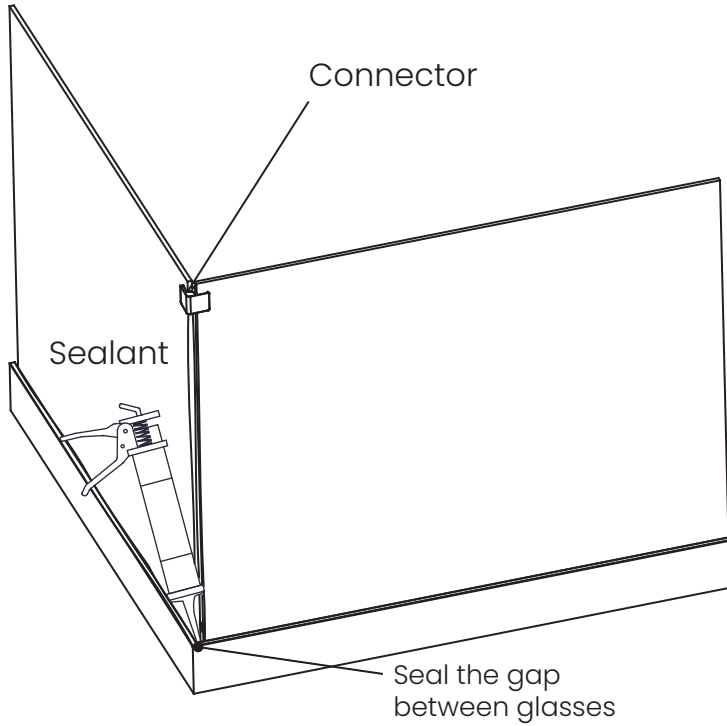
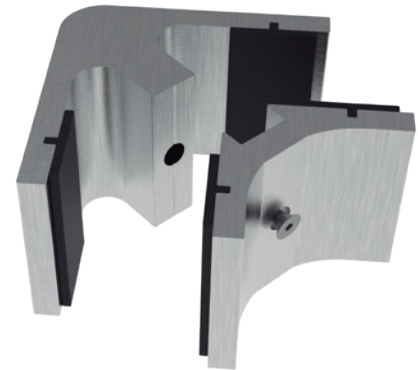
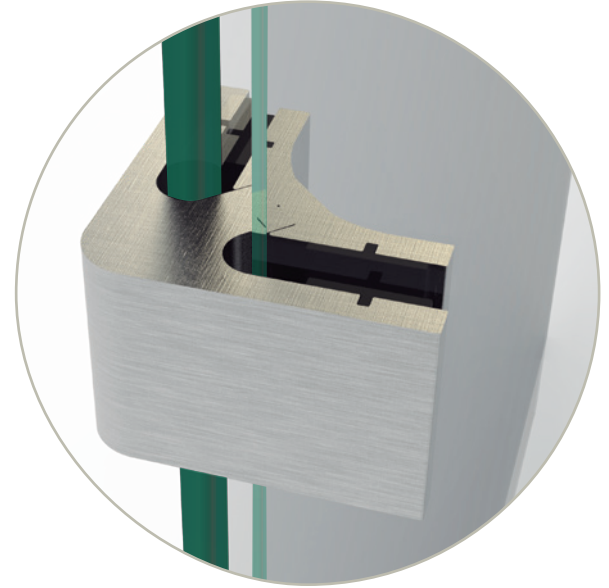


Accessories height 1,57" (40mm) except for the K11 system which is 2,75" (7mm)

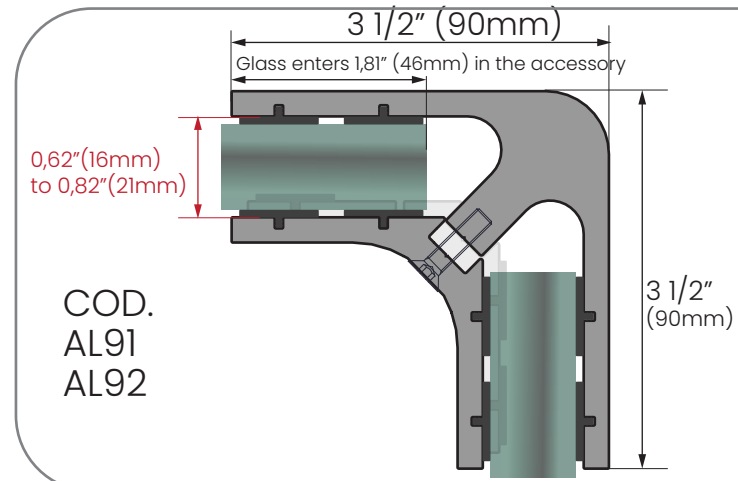
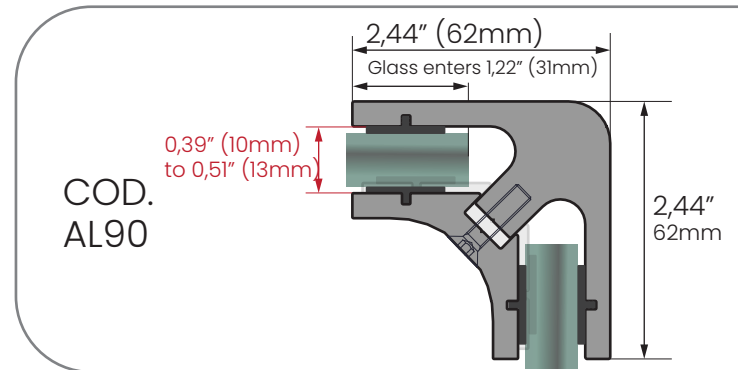


## 90° Glass connector

- Corner connector
- 6063 alloy
- Suitable for various glass types and thicknesses
- Anodized 20 microns,

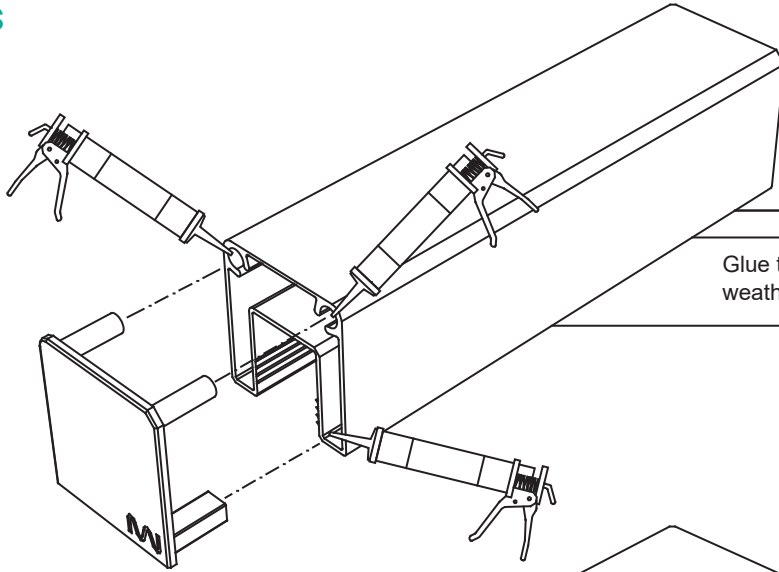


Accessories height 1,57" (40mm) except for the K11 system which is 2,75" (7mm)



## End caps

All weather sealant

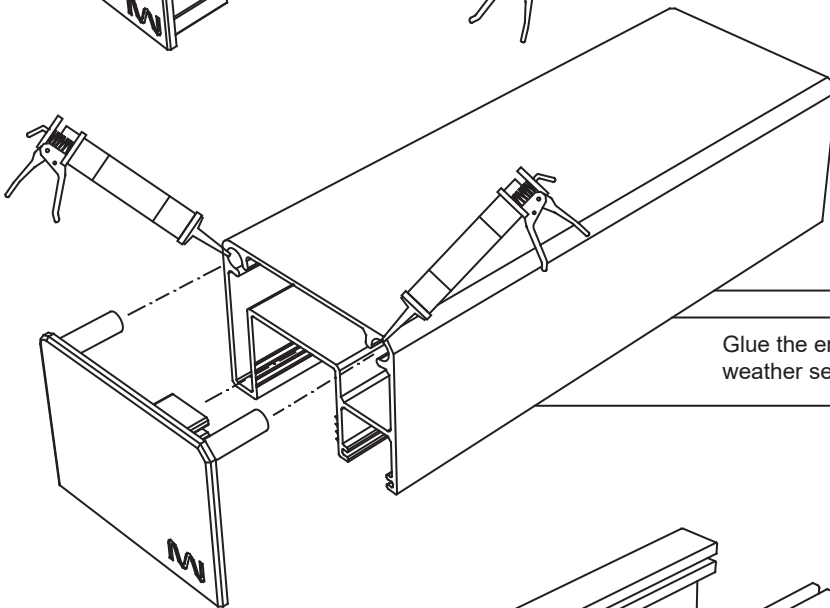


K8

Square Handrail

Glue the ends with transparent weather sealant

All weather sealant

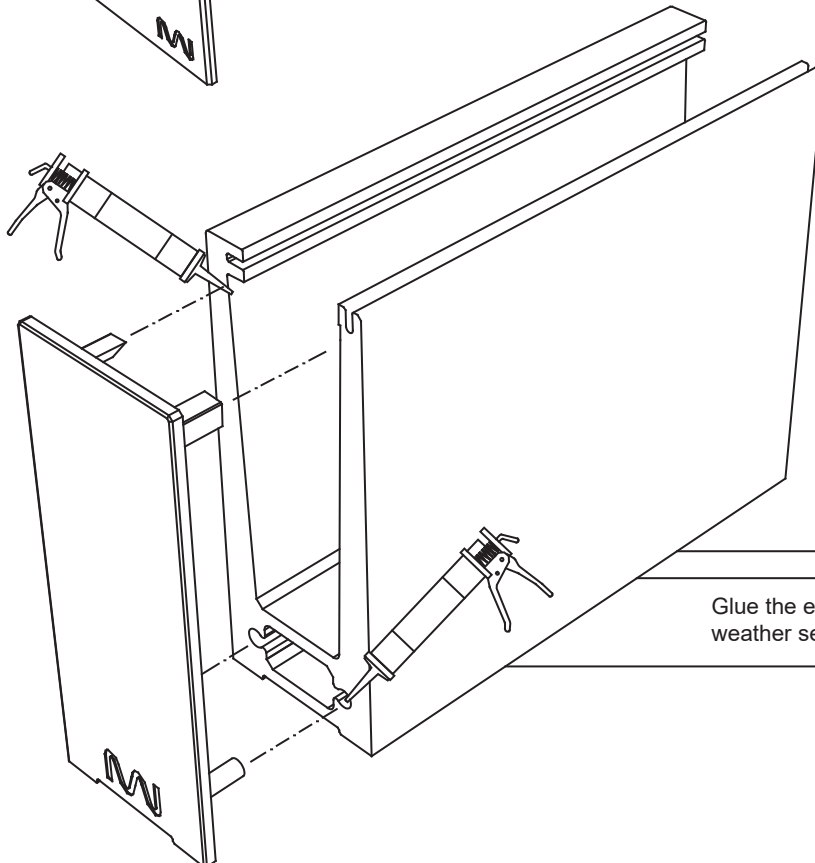


K7

LED Handrail

Glue the ends with transparent weather sealant

All weather sealant



K1

Base shoe

Glue the ends with transparent weather sealant



IMPERIA



GLASS RAILING

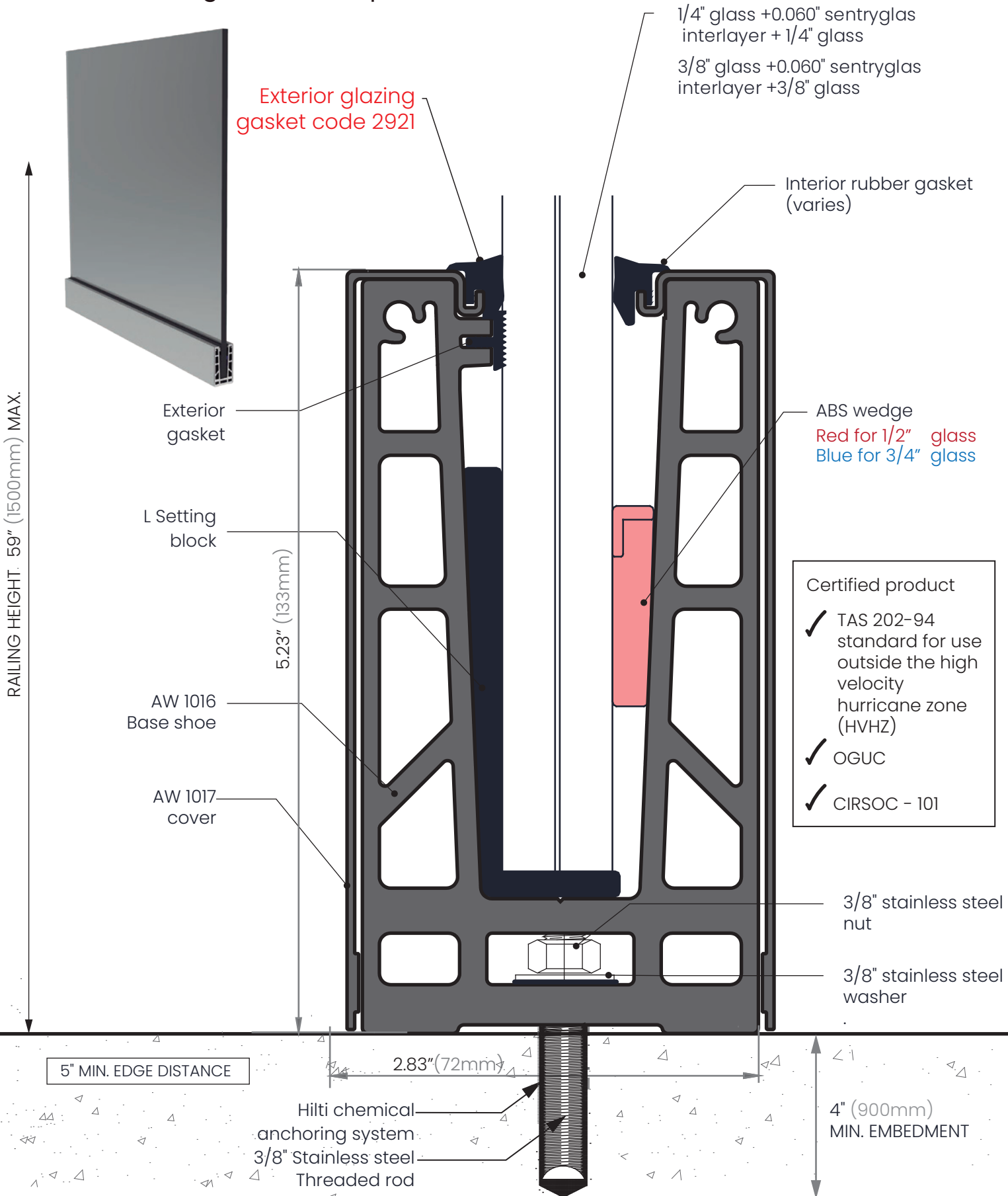
ALU WIND  
Aluminum Extrusions

More options for you

*Your Profile*

# K15-Top mount

Maximum height 59" / 1984 pounds

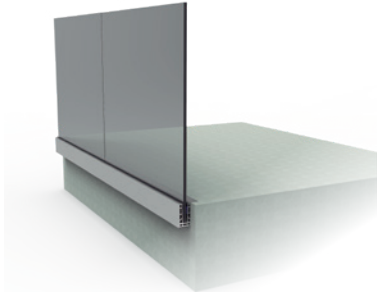


## K15-Top mount

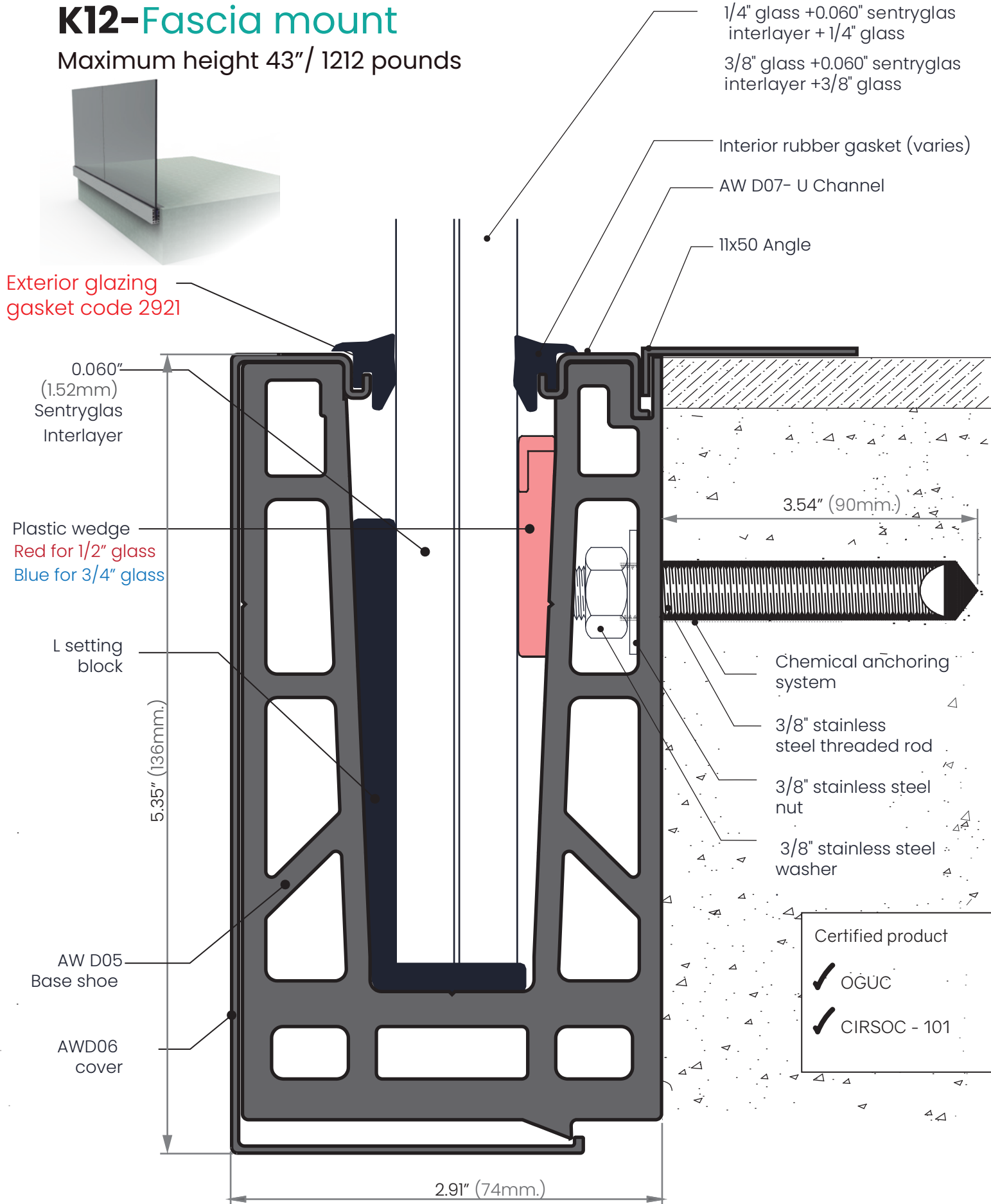


# K12-Fascia mount

Maximum height 43" / 1212 pounds



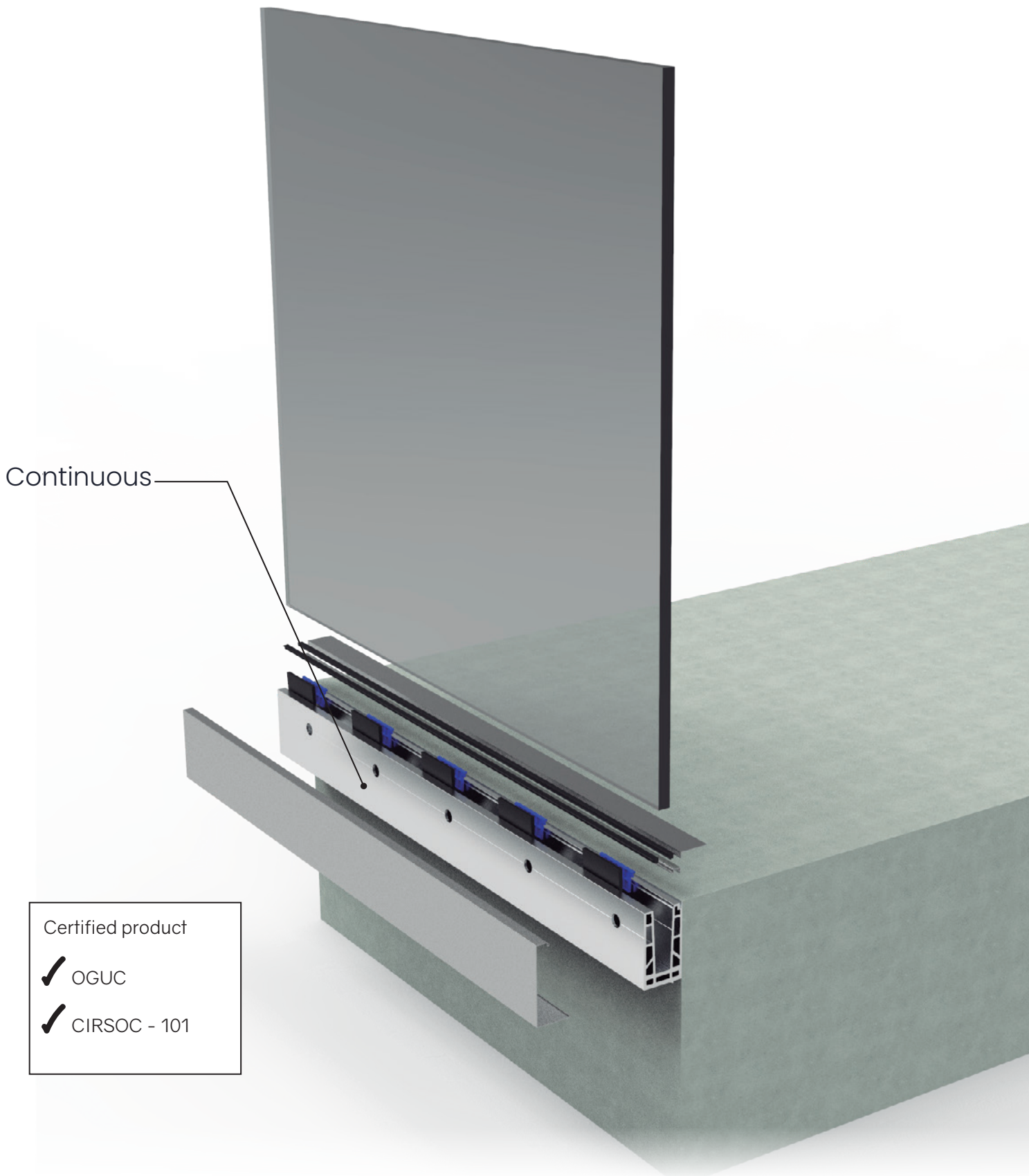
Exterior glazing gasket code 2921



Certified product

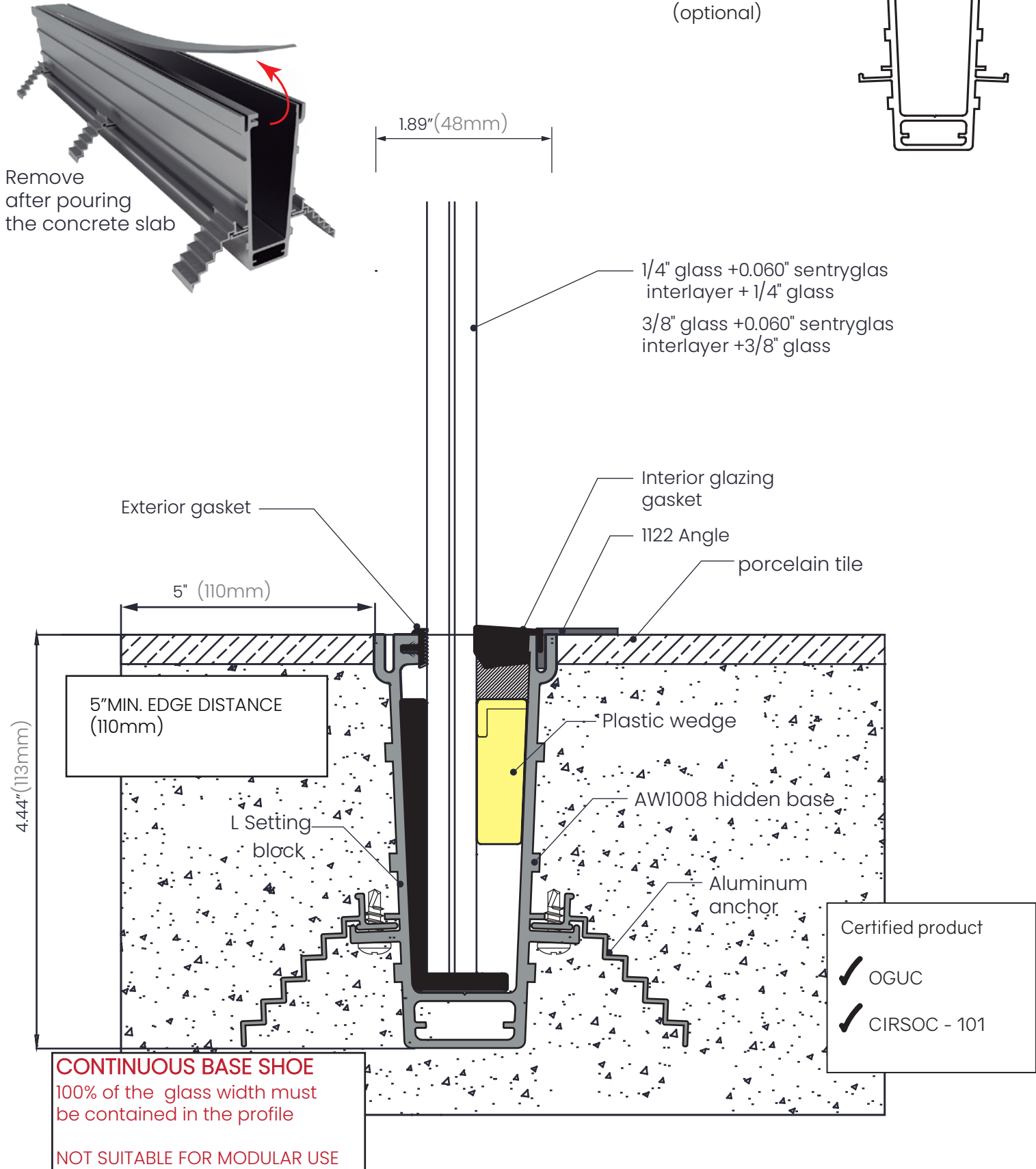
- ✓ OGUC
- ✓ CIRSOC - 101

## K12-Fascia mount



# K6-Embedded

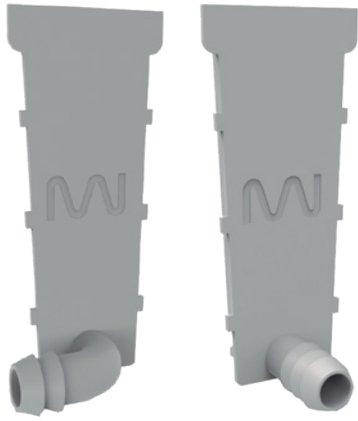
Maximum height 43" / 1322 pounds



## Water drainage

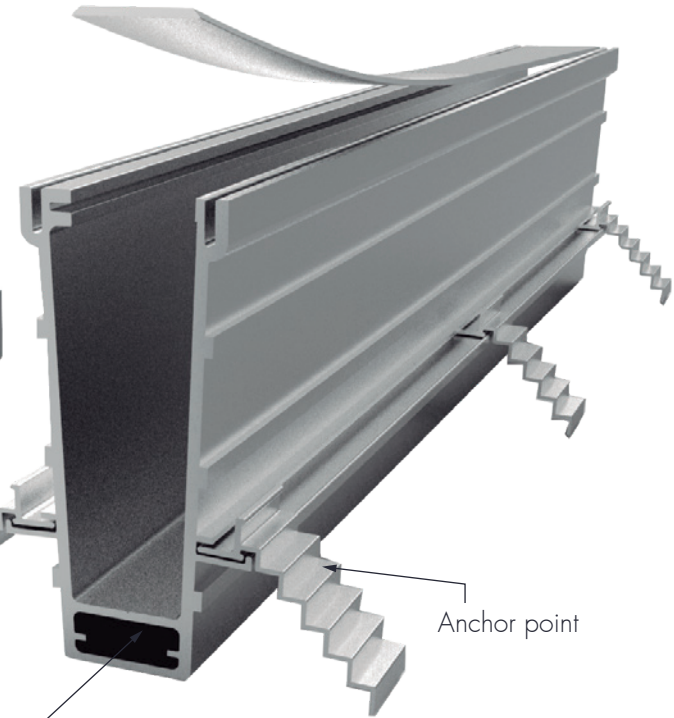
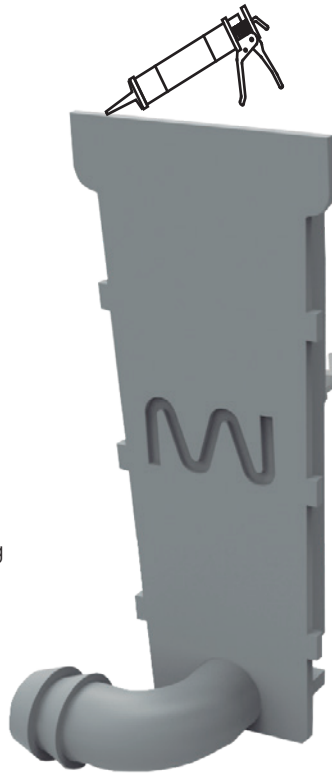
Paste with transparent silicone sealant

Optional



End cap with hose Elbow

End cap with hose fitting

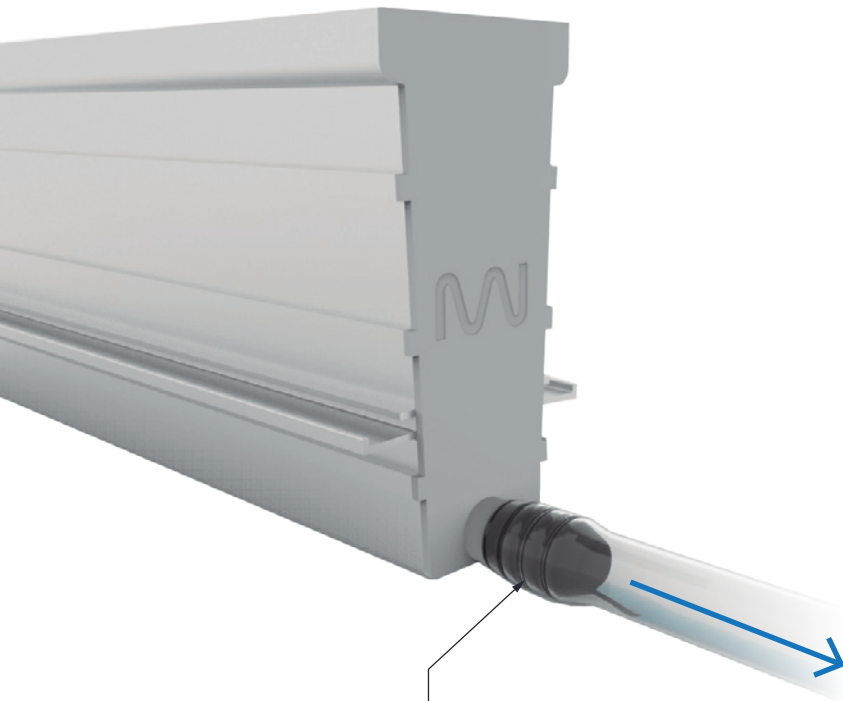


Anchor point

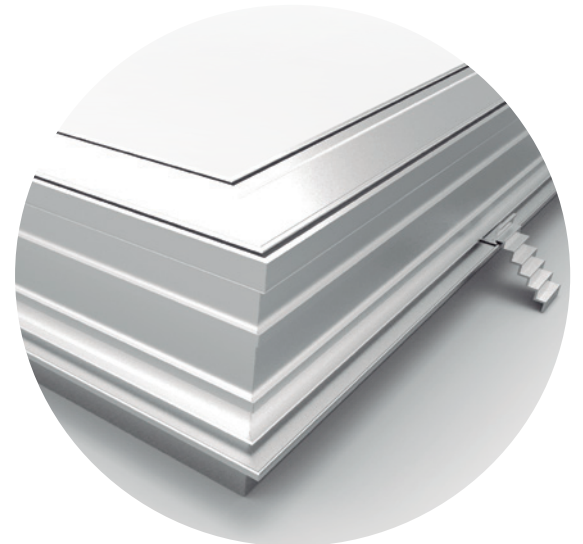
Drain channel



Embedded aluminium anchor

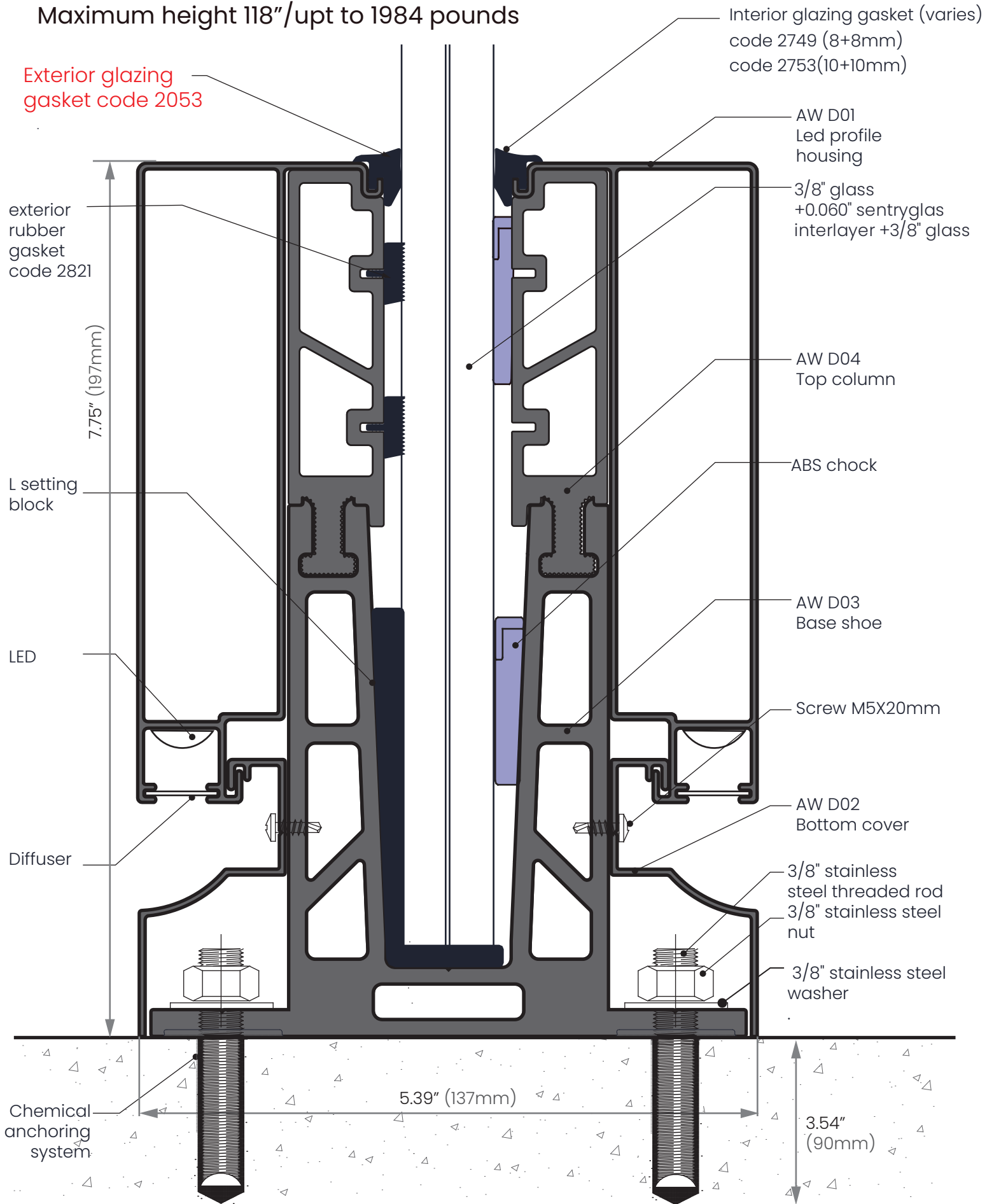


Drain connection to  $\varnothing 14\text{mm}$  hose



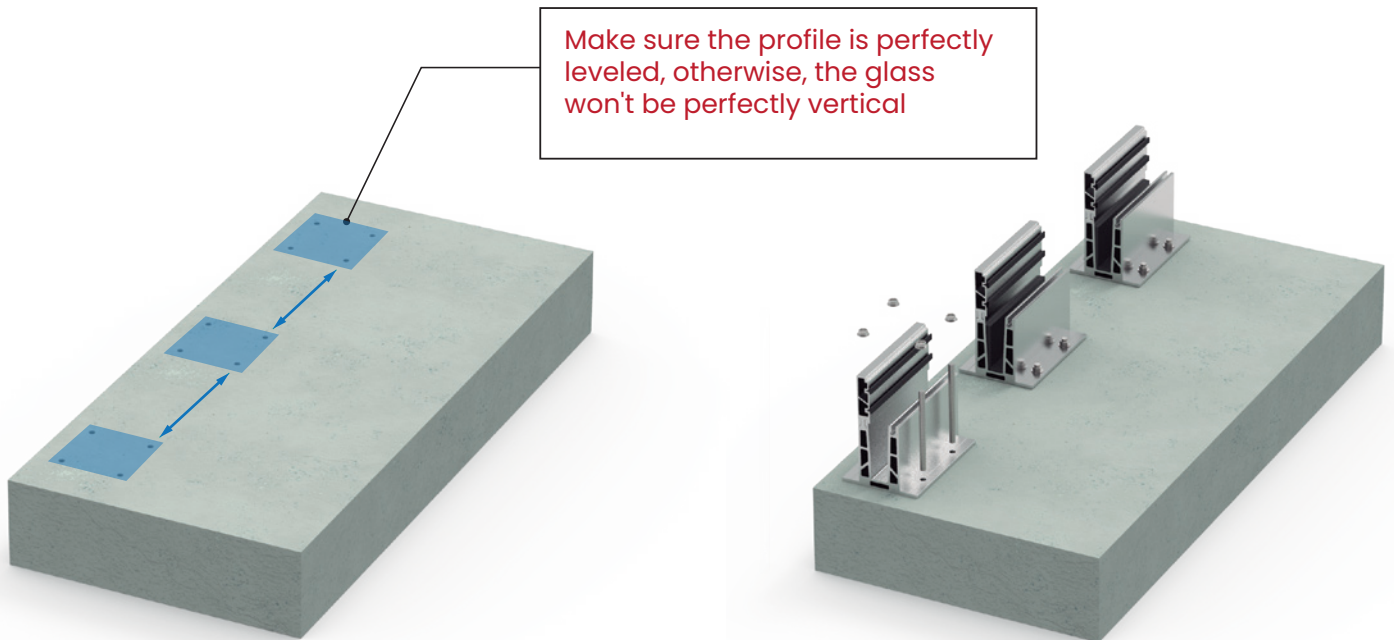
# K11- Glass fence

Maximum height 118"/upt to 1984 pounds



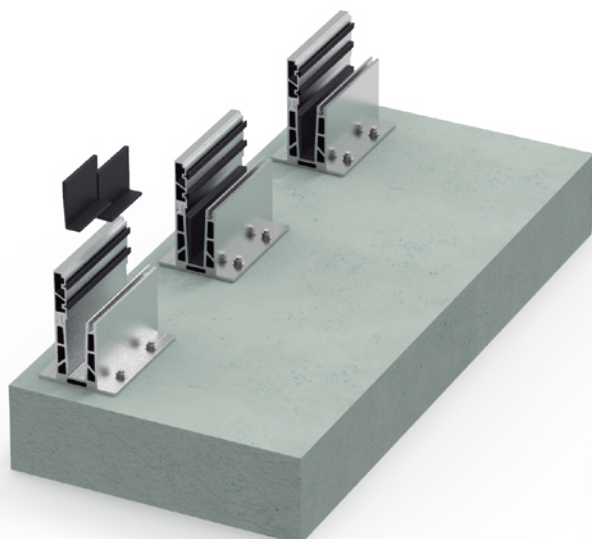


## K11 Installation instructions

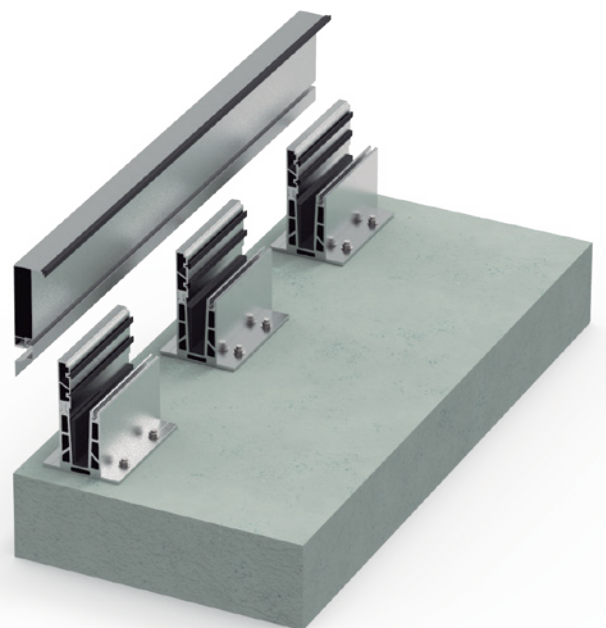


**1** Align the Base Shoe and previously mark the required holes using  $\varnothing 6\text{mm}$  drill bit in the concrete before drilling. Drill and remove all the dust from the slab holes.

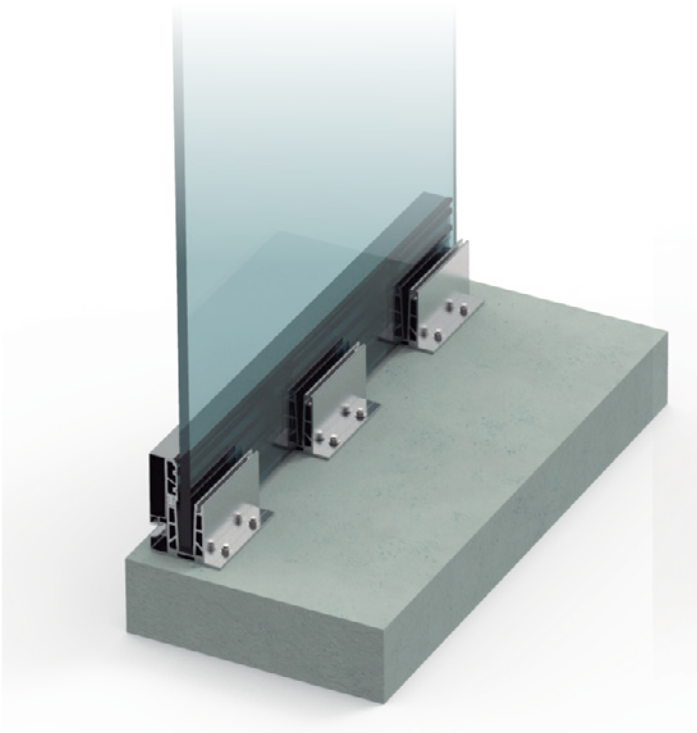
**2** Set Base Shoe in place, making sure the Base Shoe holes match the slab holes. Inject the chemical anchor. When it's finally solid dry, fasten all the nuts and washers.



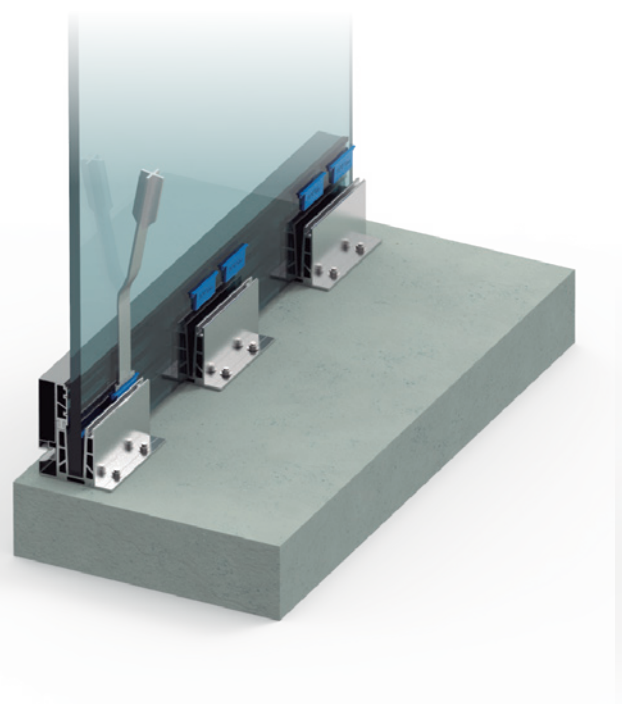
**3** Place all L setting blocks into the base shoe cavity.



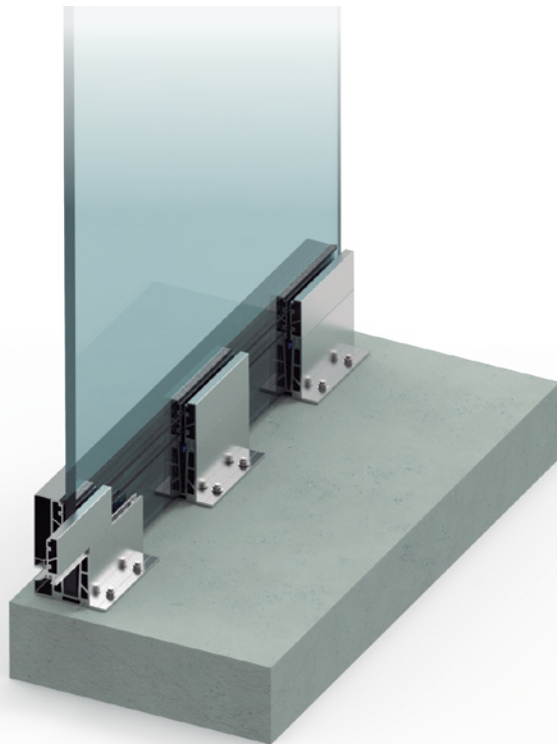
**4** Place the exterior led profile D01 over the top column D04



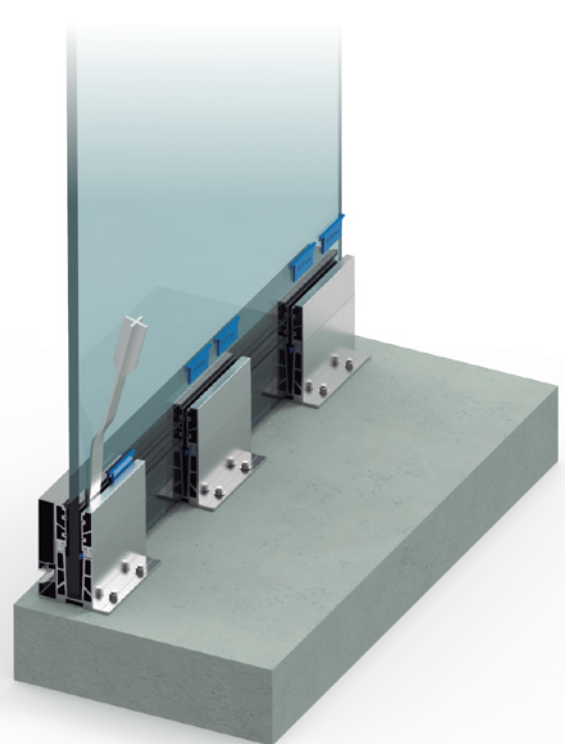
**5** Install the glass panels



**6** Insert and fasten the plastic checks. Use Installation/Removal Tool to lock the glass securely in place

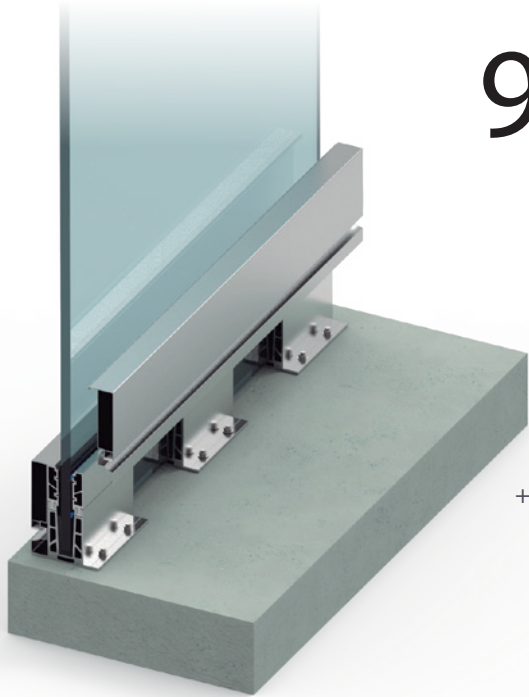


**7** Place inner D04 top columns on top of D03 base shoe.

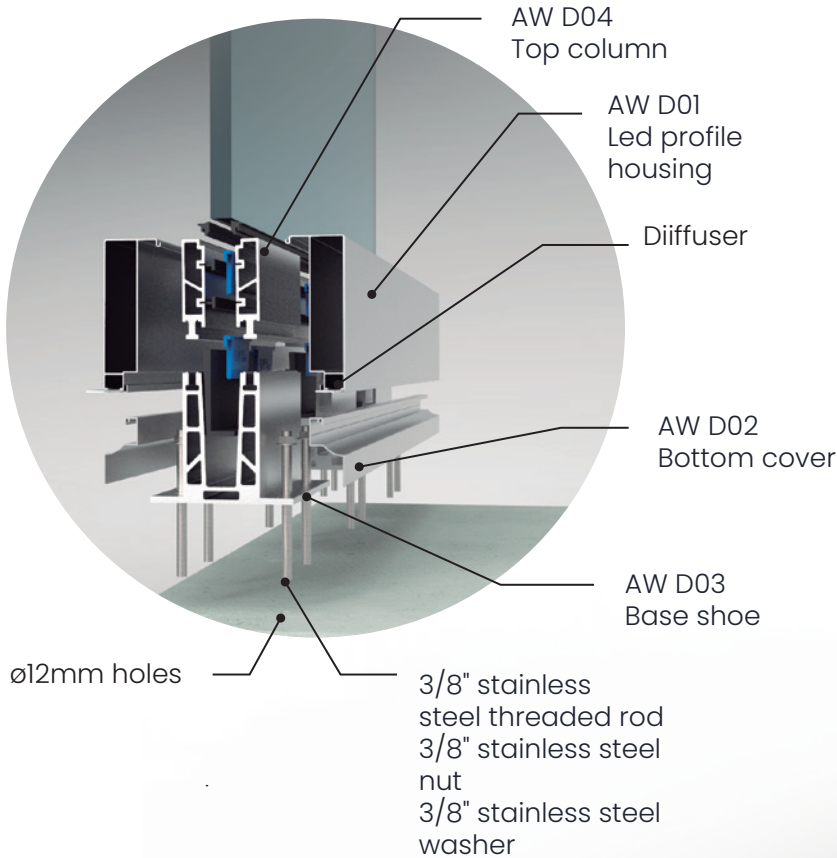


**8** Generate lever effort with the spatula tool to place the upper checks

**9** Finally place the D02 and D03 aluminum covers. Place the interior glazing gasket



3/8" glass  
+0.060" sentryglas interlayer  
+3/8" glass



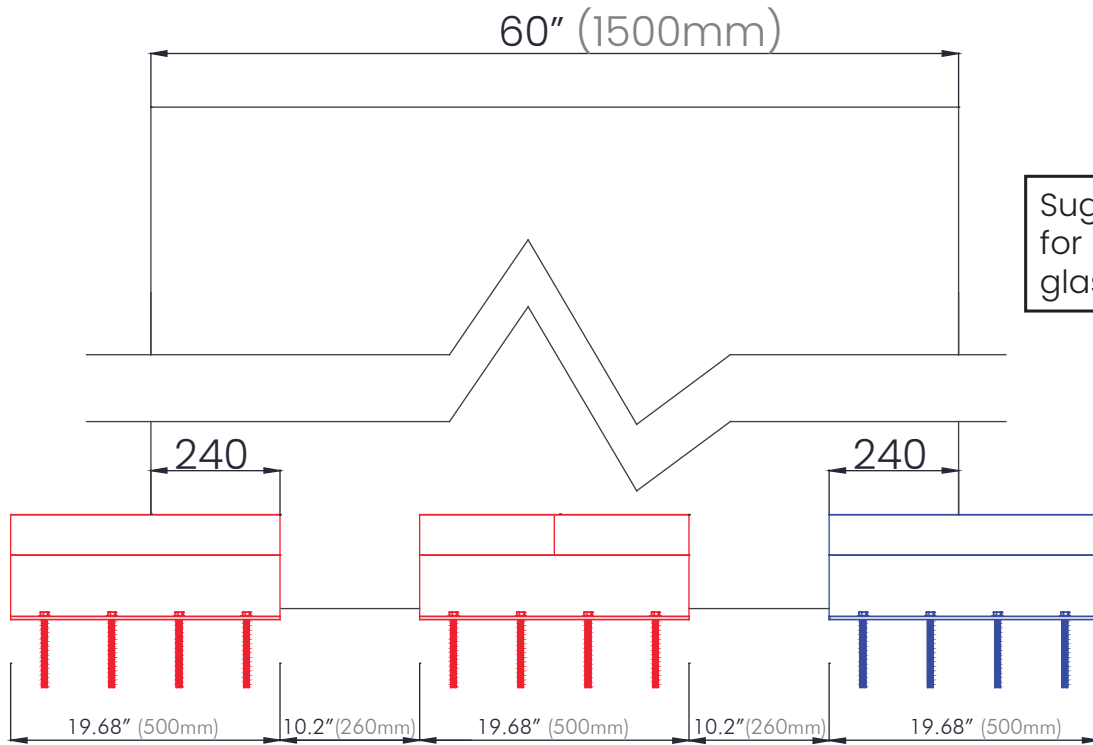
The drill bit must be buried minimum 90mm into slab. Take account of the floor binder as well as the profile thickness.

5" (127MM)  
EDGE DISTANCE

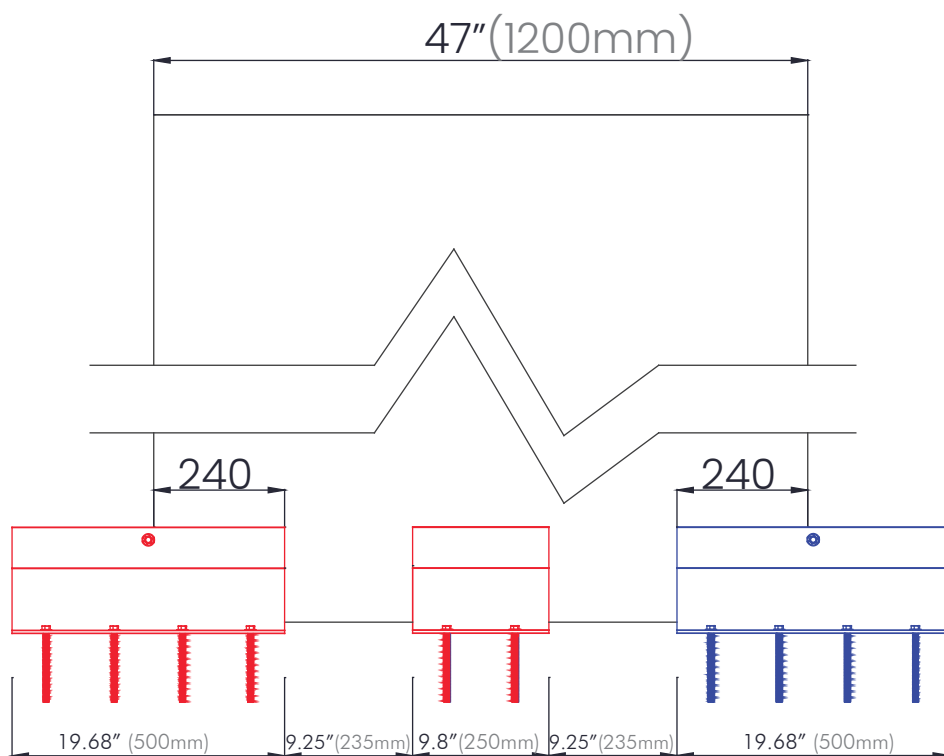


# Modular options

\*Module length 9.87" (250mm)  
or 19.68" (500mm)

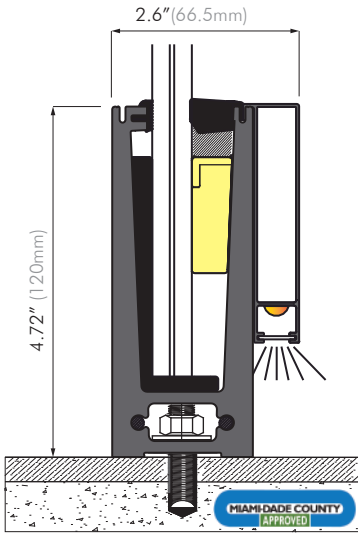


Suggested modules for 60" (1.5mm) width glass panels.





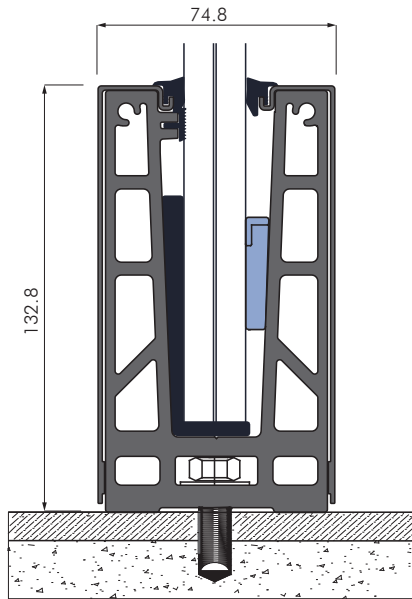
Suggested modules for 47" (1.2mm) width glass panels.

**TOP MOUNTED**





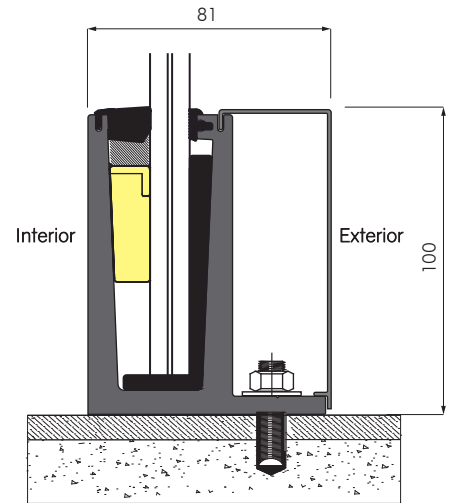
**K1** Top mount  
Continuous base shoe

-  Maximum height 43"
-  The maximum weight permitted is 771 pounds





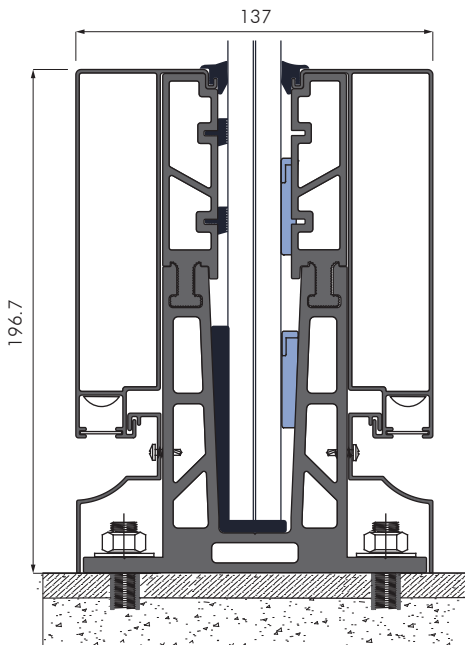
**K15** Zocalo recto reforzado  
Continuous base shoe

-  Maximum height 59"
-  The maximum weight permitted is 1984 pounds





**K16** F-Shaped Floor Mount  
Continuous base shoe

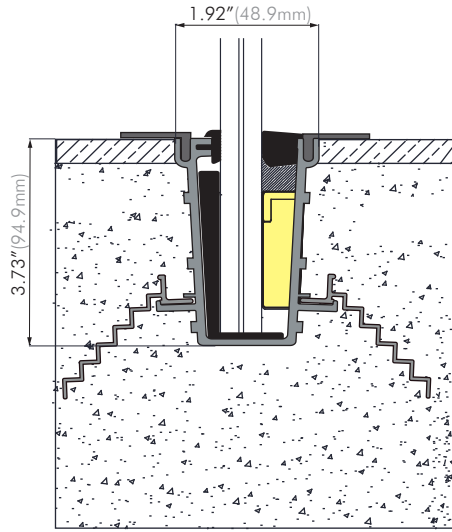
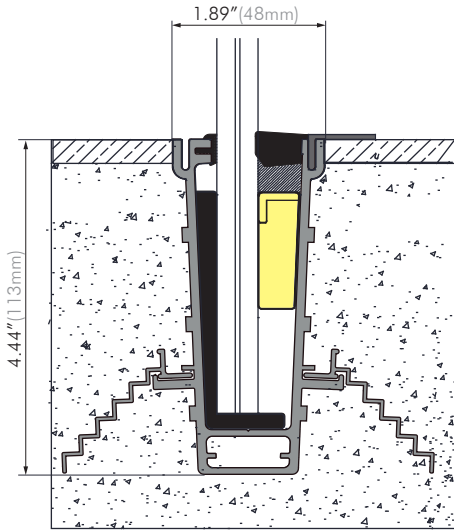
-  Maximum height 19"
-  The maximum weight permitted is 330 pounds





**K11** Glass fence  
Modular base shoe

-  Maximum height 118"
-  The maximum weight permitted is 1984 pounds



**EMBEDDED**



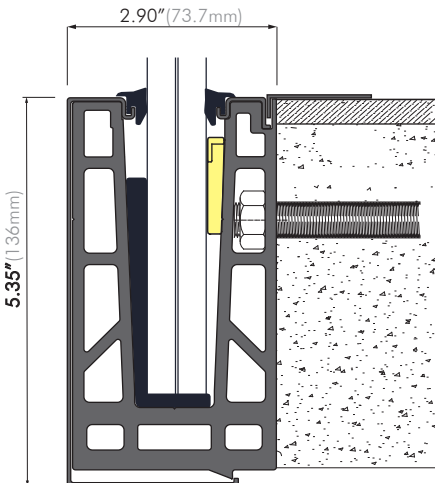
**K6** Embedded rail  
Continuous base shoe

-  Maximum height 43"
-  The maximum weight permitted is 1322 pounds



**K17** Embedded rail  
Continuous base shoe

-  Maximum height 19"
-  The maximum weight permitted is 330 pounds

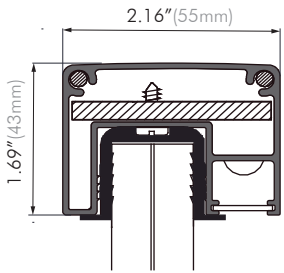
**FASCIA MOUNT**



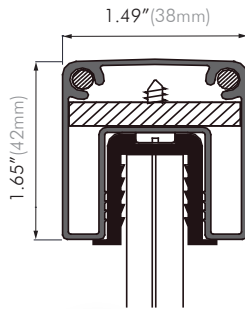
**K12** Fascia mount  
Continuous base shoe

-  Maximum height 43"
-  The maximum weight permitted is 1212 pounds

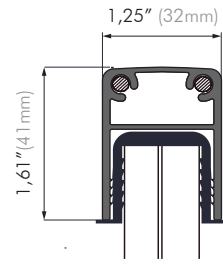
**CAP RAILS**



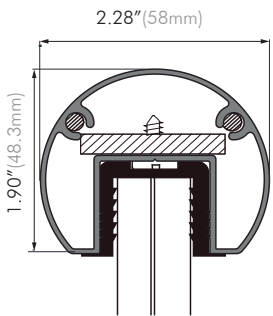
**K7** LED Handrail



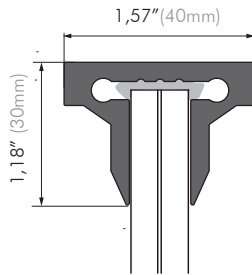
**K8** Square Handrail



**K8**  
\*AW1015

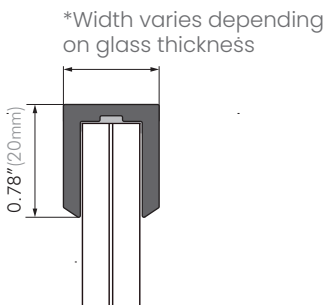


**K9** Round Handrail

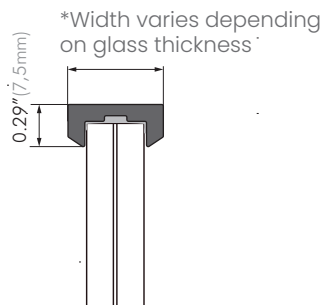


\*El ancho varía según espesor de vidrio

**TAU** TAU Handrail


















**"G"** U channel  
G1-G13-  
G16-G20














**"U"** U channel  
U10 - U20

Complementary items




SKU		DESCRIPCIÓN	PROVEEDOR	IMAGEN	Cant.	Unid	Disposición
ANG1	ADDITIONAL ACCESSORY	Aluminum angle to attach the handrail securely to the wall	ALUWIND		1	Piece	1 per cap rail ending
SPA1	ADDITIONAL ACCESSORY	Stainless steel handrail bracket	ALUWIND		1	Piece	It is recommended to space the brackets 39" apart
SPR1	ADDITIONAL ACCESSORY	Stainless steel squared wall bracket	ALUWIND		1	Piece	It is recommended to space the brackets 39" apart
ESK9	ADDITIONAL ACCESSORY	K7/K9 aluminum corner joint	ALUWIND		1	Piece	One per joint
ESK1	ADDITIONAL ACCESSORY	K1 / K8 aluminum corner joint	ALUWIND		1	Piece	One per joint
HERR	ADDITIONAL ACCESSORY	Chock spatule	ALUWIND		1	Piece	-
AL90	ADDITIONAL ACCESSORY	90° Glass connector for glass thickness between 10mm and 6+6mm. Anodized aluminum	ALUWIND		1	Piece	One per glass joint
AL91		90° Glass connector for glass thickness between 8+8mm and 10+10mm. Anodized aluminum					
AL92	ADDITIONAL ACCESSORY	90° Glass connector for K11 kit, glass thickness between 8+8mm and 10+10mm. Anodized aluminum	ALUWIND		1	Piece	One per glass joint
AL180	ADDITIONAL ACCESSORY	180° Glass connector for glass thickness between 10mm and 6+6mm. Anodized aluminum	ALUWIND		1	Piece	One per glass joint
AL181		180° Glass connector for glass thickness between 8+8mm and 10+10mm. Anodized aluminum					
AL182	ADDITIONAL ACCESSORY	180° Glass connector for K11 kit, glass thickness between 8+8mm and 10+10mm. Anodized aluminum	ALUWIND		1	Piece	One per glass joint
ASP1	ADDITIONAL ACCESSORY	Glass connector with handrail bracket. Anodized aluminum	ALUWIND		1	Piece	It is recommended to space the brackets 39" apart
9101	ADDITIONAL ACCESSORY	K1 Aluminum drainage supplement	ALUWIND		1	Piece	4 per meter
PER5	ADDITIONAL ACCESSORY	Alignment bolt $\varnothing 5\text{mm}$ . Stainless steel	ALUWIND		1	Piece	2 at the end of each profile
AI01	ADDITIONAL ACCESSORY	Suplemento de alto impacto 3mm	ALUWIND		1	Piece	User-defined
GAK6	ADDITIONAL ACCESSORY	Aluminum anchor	ALUWIND		1	Piece	User-defined



### Complementary items

SKU		DESCRIPCIÓN	PROVEEDOR	IMAGEN	Cant.	Unid	Disposición
TK01	ADDITIONAL ACCESSORY	K1- End cap	ALUWIND		1	Piece	1 at the end of the profile.
TK07	ADDITIONAL ACCESSORY	K7- End cap	ALUWIND		1	Piece	1 at the end of the profile.
TK08	ADDITIONAL ACCESSORY	K8- End cap	ALUWIND		1	Piece	1 at the end of the profile.
TK09	ADDITIONAL ACCESSORY	K9- End cap	ALUWIND		1	Piece	1 at the end of the profile.
TK05	ADDITIONAL ACCESSORY	K5- End cap	ALUWIND		1	Piece	1 at the end of the profile.
TK04	ADDITIONAL ACCESSORY	K4- End cap	ALUWIND		1	Piece	1 at the end of the profile.
TK03	ADDITIONAL ACCESSORY	K1+K3- End cap	ALUWIND		1	Piece	1 at the end of the profile.
TK33	ADDITIONAL ACCESSORY	K1+K3 on both sides- End cap	ALUWIND		1	Piece	1 at the end of the profile.
TK6R	ADDITIONAL ACCESSORY	K6 stainless steel end cap with hose fitting	ALUWIND		1	Piece	1 at the end of the profile.
TK6R	ADDITIONAL ACCESSORY	K6 stainless steel end cap with hose elbow	ALUWIND		1	Piece	1 at the end of the profile.
1031	ADDITIONAL ACCESSORY	K1 aluminum fascia	ALUWIND		1	Piece	Profile length 6m. It can be placed on one or both sides

## CHEMICAL ANCHOR

SKU		DESCRIPTION	SUPPLIER	IMAGE	Unit	Usage
R010 RE-10 (2142303)	ADDITIONAL ACCESSORY	Re-10 anchoring system (cod.2142303) injectable epoxy mortar for anchoring in concrete	HILTI USA		19.61 fl oz	Inject the anchor before inserting the threaded rod
HDM5 HDM 500 (2005641)	ADDITIONAL ACCESSORY	Manual anchor adhesive dispenser hdm-500 (cod.2005641)	HILTI USA		Piece	User-defined
R100 RE-100 (2123384)	ADDITIONAL ACCESSORY	Re-100 anchoring system (cod.2123384) High-performance injectable epoxy mortar  ** Requires HIT-CB500 cartridge holder not included.	HILTI USA		11.16fl oz 16.91 oz	Inject the anchor before inserting the threaded rod
R500 RE-500 (2123404)	ADDITIONAL ACCESSORY	Re-500 anchoring system (cod.2123404) Ultimate-performance injectable epoxy mortar with approvals for heavy-duty anchoring  ** Requires HIT-CB500 cartridge holder not included.	HILTI USA		11.16fl oz 16.91 oz	Inject the anchor before inserting the threaded rod
HITC HDM 500 + HIT-CB (3560133)	ADDITIONAL ACCESSORY	Manual dispenser with cartridge holder Hit-cb (COD.3560133) RE-100 RE-500	HILTI USA		1 dispenser 1 cartridge holder	User-defined

## SCREW ANCHOR

SKU		DESCRIPTION	SUPPLIER	IMAGE	Unit	Usage
KHEZ KH-EZ (418059)	ADDITIONAL ACCESSORY	Screw anchor kh-ez(cod.418059) 3/8"x4"	HILTI USA		50pc 100pc	User-defined
SIW2 SIW 22T-A 1/2" (405032)	ADDITIONAL ACCESSORY	Impact wrench 22v siw22T-A 1/2" (cod.405032)	HILTI USA		Piece	User-defined
B22V B 22/5.2 (2136396)	ADDITIONAL ACCESSORY	Compact 22v Battery pack (cod.2136396)	HILTI USA		Piece	User-defined
CBAT C 4/36-90 2026282	ADDITIONAL ACCESSORY	Multi-voltage compact charger for all Hilti Li-ion batteries (cod.2026282)	HILTI USA		Piece	User-defined

# IMPERIA



GLASS RAILING



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**ALU WIND**  
Aluminum Extrusions