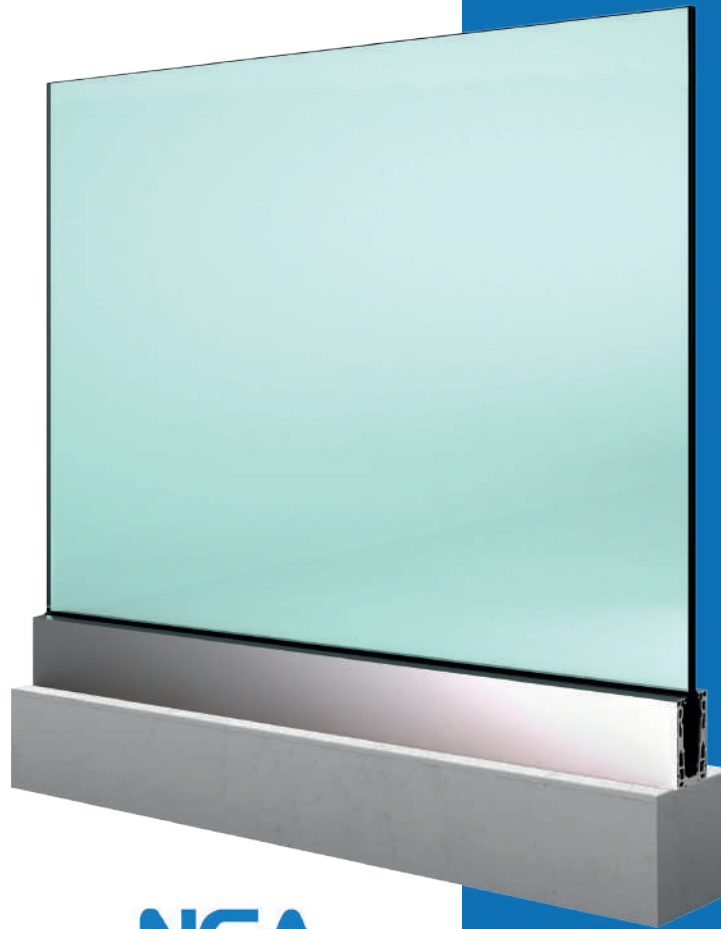


Glass and Hardware Distributors



THE RAILINGS SPECIALIST

MADE IN ITALY



Railings for contemporary architecture

Category: **ARCHITECTURE AND URBAN DESIGN**

Railing

Noun sing.

1. a fence-like barrier composed of one or more horizontal rails supported by widely spaced uprights; balustrade. 2. banister.

”

Synonyms and Antonyms

(Construction) [Safety structure placed on the edge of a level that faces the road or overlooks a slope, a difference in altitude and [...]] similar: railing of a bridge; overlooking the railing of the balcony] ≈ **balustrade**, (not commonly used) balustraded. || border, ledge, edge.

SUMMARY

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OUR PURPOSE

Why choose us as your trusted distributor?

TO OFFER DEPENDABLE, TIMELY AND DIVERSE SOLUTIONS THAT GLASS FABRICATORS NEED FOR SUCCESS.

Since our establishment in 2004, Interglass has been dedicated to the wholesale **distribution of glass and mirror products.**

We have a combined footprint of 144,000 sqft of warehouse space and a specialized fleet of trucks which includes: Boom Trucks, Rack Trucks and Tractor-trailers. We efficiently perform in-house all of our local logistics needs such as: customs clearance, drayage, warehousing and deliveries. This, combined with our extraordinary employees, give us the ability to exceed our customer needs and offer a reliable service.



FLEXIBLE ONE-STOP SHOP



Our extensive product portfolio lets you combine various glass, mirror, and hardware items in one order.

JUST-IN-TIME DELIVERIES



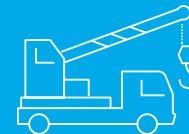
Our own fleet of trucks ensures quick and timely deliveries.

LARGE INVENTORY



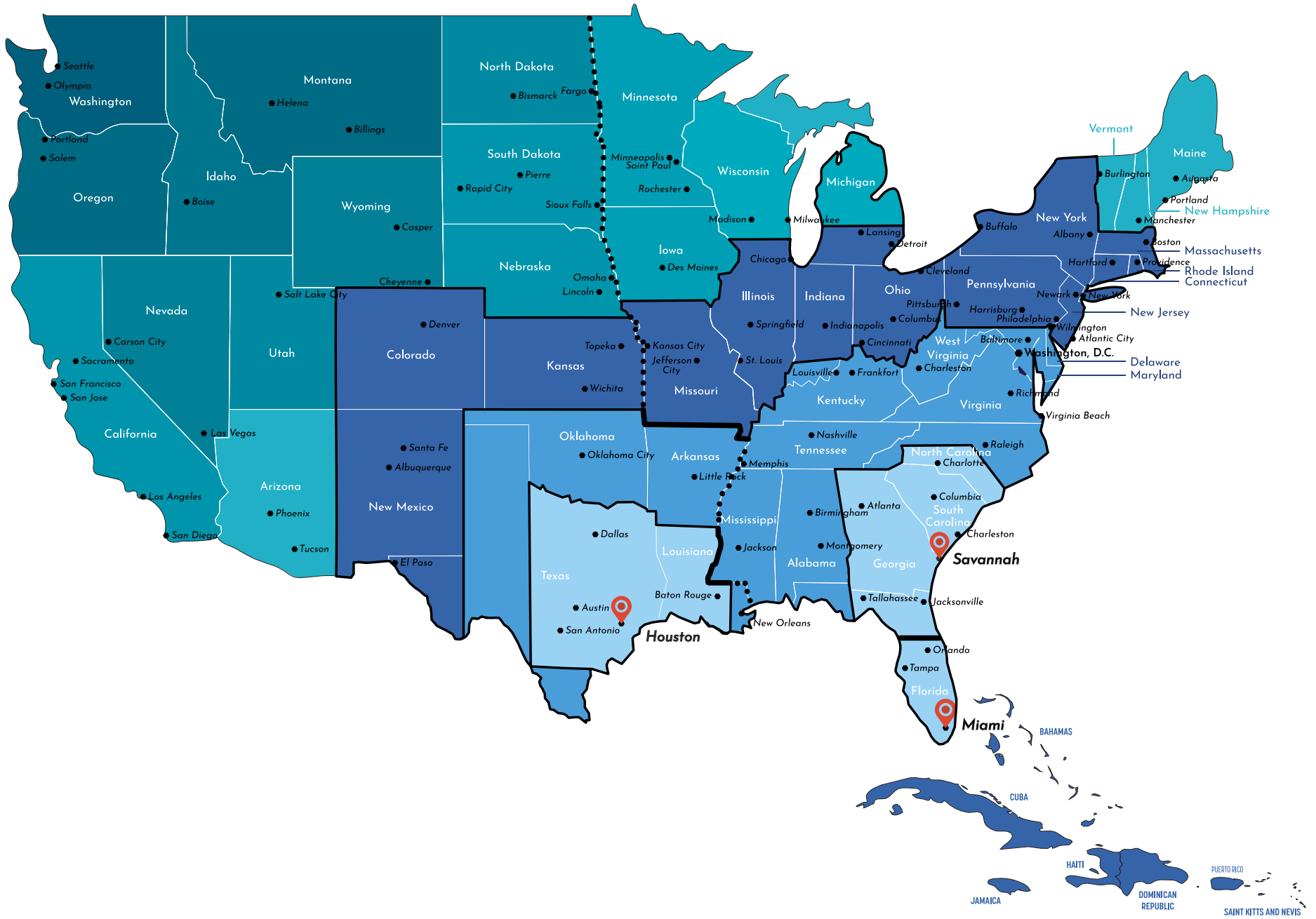
We keep over 6,000 cases of glass and mirrors in stock for availability and variety.

EFFORTLESS UNLOADING



Our specialized trucks with cranes can unload orders directly into your warehouse.

DISTRIBUTION REGIONS



Sophisticated surroundings and facades

BALCONIES, TERRACES AND ROOFTOPS

WHERE ARE BALUSTRADES USED?

The railings are installed both in new construction work and in renovations, on buildings with facades that are being redeveloped.

- ▣ HOMES - INTERNAL / EXTERNAL
- ▣ HOTELS AND RESORTS
- ▣ APARTMENT BLOCKS
- ▣ SPORTS BUILDINGS
- ▣ SHOPPING MALLS
- ▣ SCHOOL BUILDINGS
- ▣ TERTIARY SECTOR BUILDINGS
- ▣ INDUSTRIAL BUILDINGS

Find the ideal solution for your project

SOLUTIONS FOR HOSPITALITY

With absolutely valuable expertise, we are leaders in the **hospitality sector** with advanced solutions for balustrades that increasingly complement loggias, balconies and terraces of hotels, resorts and accommodation facilities. In addition to giving a **touch of contemporaneity**, the balustrades in the minimal version guarantee more **light in rooms** and allow **enjoyment of surrounding views** thanks to the absence of visible elements and the essential design.

Absolute transparency and the absence of profiles is in fact a **growing trend**: being able to offer the maximum contribution of natural light is among the most requested aspects in modern accommodation structures.



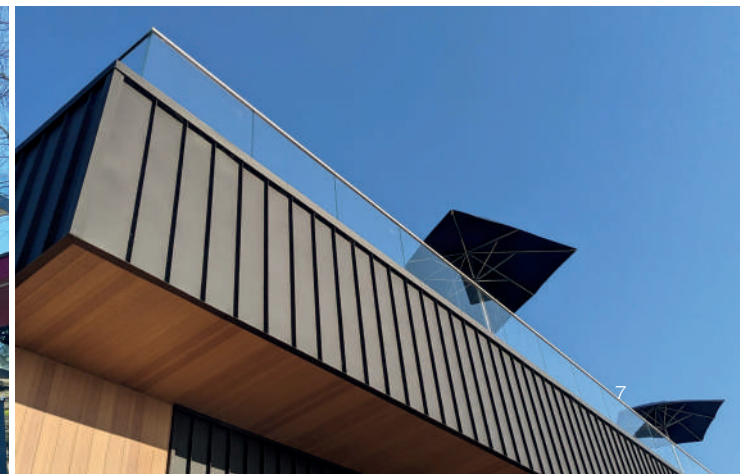


Inter Miami CF's Lockhart Stadium

The balustrade system, light, stable and safe, is also used for fences, pool edges, mezzanines or sports grandstands, permeable to sight. A real and proper protection solution.



The balustrades, used in **residential surroundings**, are extremely versatile and suitable for contemporary environments, with application also on stairs or mezzanines.





GARDA

The “all-glass” railing



Thanks to the use of glass, Garda balustrades guarantee maximum formal cleanliness in any type of project: they are available with or without handrails, according to a system customizable in its parts in different color combinations.

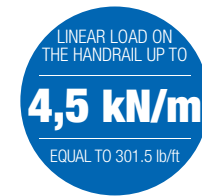
The Garda system, tested in certified laboratories, is composed of different elements designed to ensure easy, fast mounting, which is unique in the sector, as well as ideal aesthetic performance for the world of contemporary architecture.

TECHNICAL ADVANTAGES

- THE SYSTEM IS TESTED IN **CERTIFIED LABORATORIES**
- MOUNTING IS **EASY AND FAST**
- THE SURFACE PREVENTS CHILDREN FROM CLIMBING
- THE PROFILE ENABLES **WATER DRAINAGE**
- MAINTENANCE IS LIMITED TO CLEANING ONLY

AESTHETIC ADVANTAGES

- THE SYSTEM OFFERS **MAXIMUM TRANSPARENCY** FOR AN OPTIMAL VIEW
- GUARANTEES **EXCELLENT BRIGHTNESS** IN PREMISES
- SET UP FOR **STRIP LED** INSERTION, IF NECESSARY



THE FINISHING CARTERS

Protection and contemporary style

The carters have “design of character” and generate an important mark in defining facade projects.

”

The carters are finishing elements applied to fit onto the profile when it is finished, to define and complete any type of railing. Their installation takes place at the end of the work, avoiding possible damage caused during the laying phase.

COLOR CUSTOMIZATION

We have selected 2 finishes to meet contemporary architectural demands: anodic at 20 micron (≈ 0.0008 " or 0.8 mils), with superior aesthetic and protective features suitable to ensure the surface against **particularly aggressive exposure** such as along the sea front.

FINISHES



SAND SILVER ANODIZED



SAND BLACK ANODIZED

The colors shown are purely indicative and may vary from the original for coating reasons. Always request a reference sample.

EXPOSURE TO MARINE ATMOSPHERE

The carters are supplied with an **anodizing treatment**, for a surface finish with both aesthetic and protective features.

The anodic and paint treatments of the aluminum parts are carried out on Qualanod certified plants and guarantee a homogeneous and long-lasting finish of the product.

PERFORMANCE

1 year Florida
1y: GR $\geq 50\%$
GSB Standard
Guaranteed up to 15 years

FLORIDA TEST

Outdoor exposure in real time

The Florida Test is a globally recognized test method which measures color and gloss variation over time in response to natural exposure to atmospheric agents.

The Florida Test combines:

- **High UV radiation**
- **High temperatures**
- **High humidity**

(Florida's micro-climate - characterized by strong solar radiation and high humidity rate - favors and accelerates the natural process of paint deterioration. Florida has thus become a universal benchmark for the strength and quality of painting cycles on metal).

SIDE CARTER

Customisable finishing element that is applied when the installation is complete.



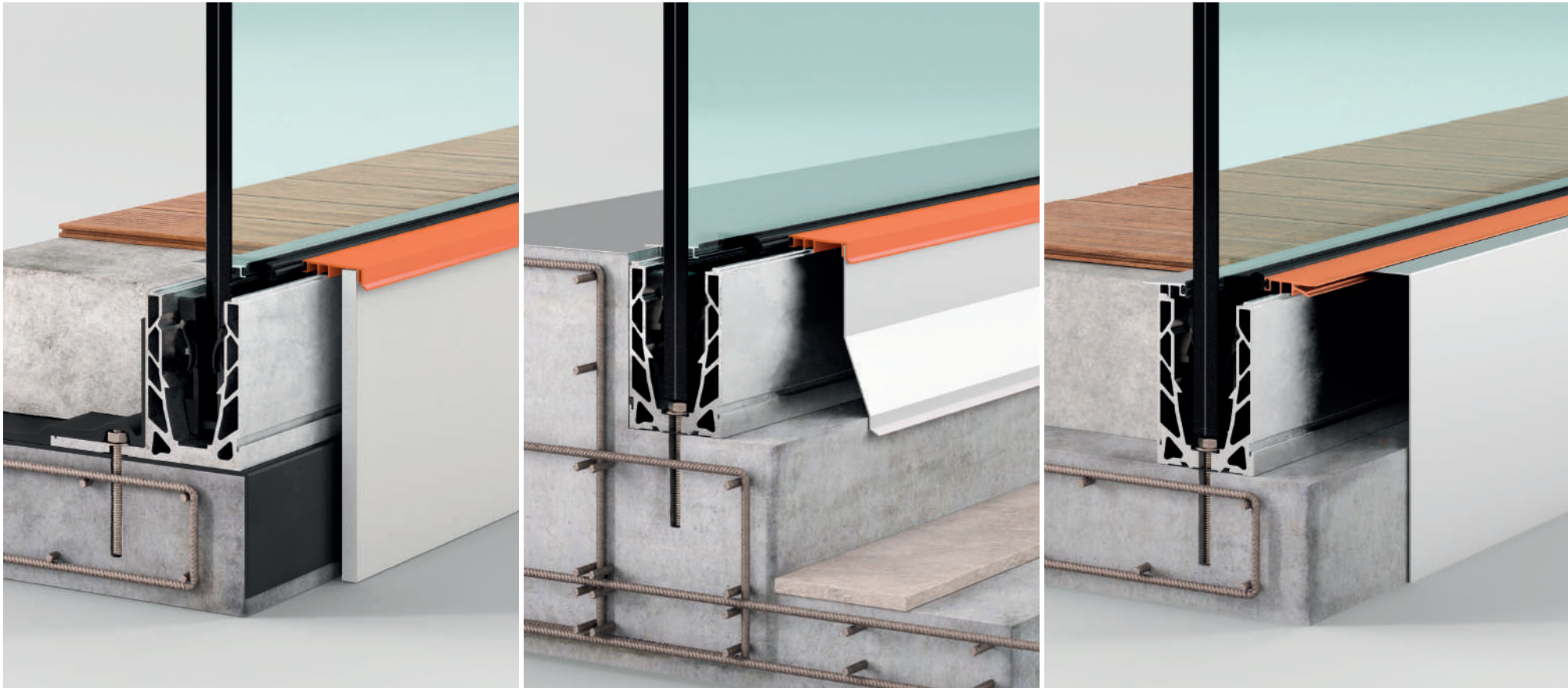
UPPER CARTER

Finishing element designed to surmount the floor, cover the normally uneven joint and the expansion joint.



SPECIAL CARTERS

The different types of carters allow the **balustrade system to be integrated with any construction solution**, for example when a finish in drywall or sheet metal is required that is both vertical and horizontal.



CARTER SIZE

The use of the cover cap allows the balustrade profiles, laid at 90° or at irregular angles, to be joined without having to resort to complicated cutting of the profile itself but only of the caps. This reduces waste and material costs.



TEMPORARY COVER CAP

Provisional element applied as protection to the profile to avoid the entry of inert materials during the completion phases of the construction site. It also provides the floor dimension reference.



ADVANTAGES

CLAMP

Patented for adjusting glass panels. It allows an adjustment in the vertical axis of $\pm 25/32''$ (± 20 mm) at the top with a glass height of $3' 7 3/8''$ (1100 mm).



COMPENSATOR

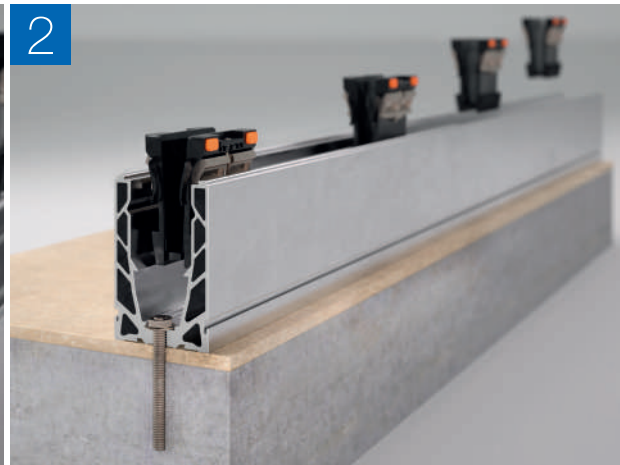
Easy solution to be contemplated if you choose laminated glass with $0.030''$ (0.76 mm) thick plastic or with particular thickness tolerances.



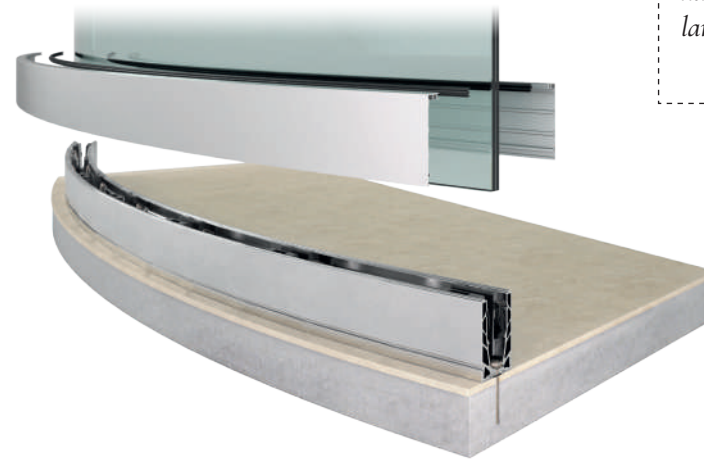
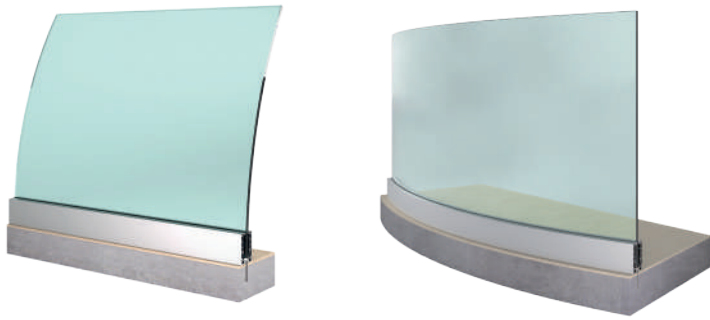
LAYING BALUSTRADES FROM THE INSIDE

The Aluvetro patented clamp is designed to allow installation even only from the inside, applying two inserts for clamps: with this system, the possibility of adjustment from both sides is eliminated.

- 1 Insert the pair of accessories for laying from the inside into the spaces provided. Choose the most suitable accessories, according to the final angle you want to obtain.
- 2 Insert the clamps into the profile every 9 13/16" (25 cm), taking care to place the clamp part with the pair of accessories on the external side.
- 3 Mount the gasket on the carter, facing downwards and position only the external carter.
- 4 Insert the glass.
- 5 Adjust only the internal side with the Allen key and tighten the glass.
- 6 Mount the internal carter to which the gasket is already fitted.



CURVED GLASS AND PROFILES



The use of curved glass is a distinctive element to give a feeling of lightness made of lines that seem to be in motion with harmonious architectural language.



Curved glass sheets can be mounted on all Garda balustrades with radii starting from a minimum of 6' 6 3/4" (200 cm) and a **horizontal or vertical curvature**. To produce balustrades with a curved layout, the profiles are bent, as are the infill elements, on specific request.



THE HANDRAILS

The use of the handrail helps to prevent any infiltration into the stratification, which could cause slight aesthetic alterations over time.

Scan the QR and watch the video of the handrail laying



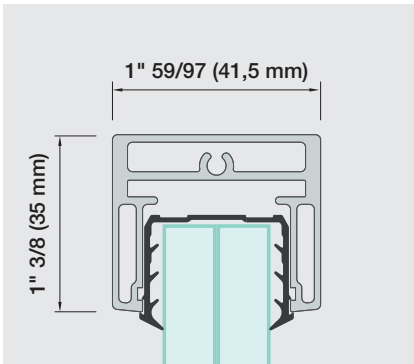
COMPACT

New design for solid support and secure grip.

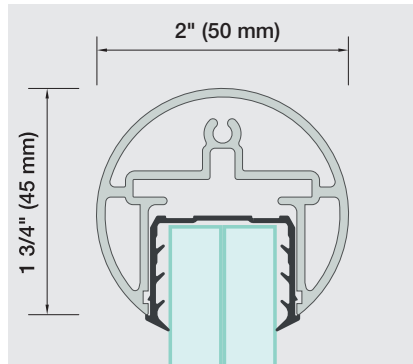


ROUND

A "soft" shape that goes well with clean, square lines of each balustrade.



COMPACT



ROUND

CAPS AND JOINT BRACKETS

yes

yes

GLASS THICKNESSES

5/16" + 5/6" (8/8) - 3/8" + 3/8" (10/10) - 1/2" + 1/2" (12/12)

5/16" + 5/6" (8/8) - 3/8" + 3/8" (10/10) - 1/2" + 1/2" (12/12)

APPLICATION

with seal* (GC),
of variable measurement as
the thickness of the glass changes

with seal* (GC),
of variable measurement as the
thickness of the glass changes



* to be ordered separately

THE CLAMP

The heart of the Garda system

Patented by Aluetro, **Quick Block** represents “the heart of the fixing system” for Garda glass balustrades, able to guarantee **extremely safe** and **fast mounting steps** on site.

MILLIMETRIC ADJUSTMENT

Its main technical advantages include both the possibility of firmly securing the glass and a final adjustment of its alignment.

Of equal importance, our clamps are adjustable standing and, for the benefit of the installer's safety, allow installation only from the inside.

HOW TO USE THEM

They are inserted in the profile at a variable distance from one another, depending on the design load, taking care not to place them close to the fixings.

Once the glass has been placed, inclination of the plates is adjusted using an Allen wrench or a power tool fitted with an extension and tightening the adjustment screws at the top of the clamps.

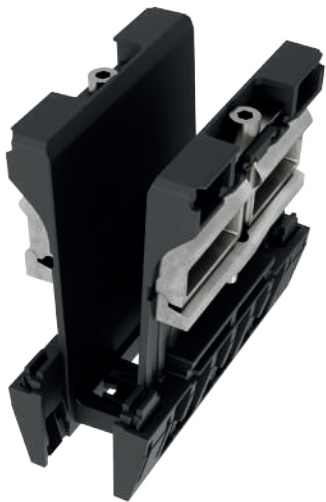
LED COMPARTMENT

The lower part of the clamp is also designed to enhance LED use within the profile: the strip is positioned between the profile and the clamps, designed to ensure light continuity over the entire base of the glass and achieve an excellent and striking night effect.

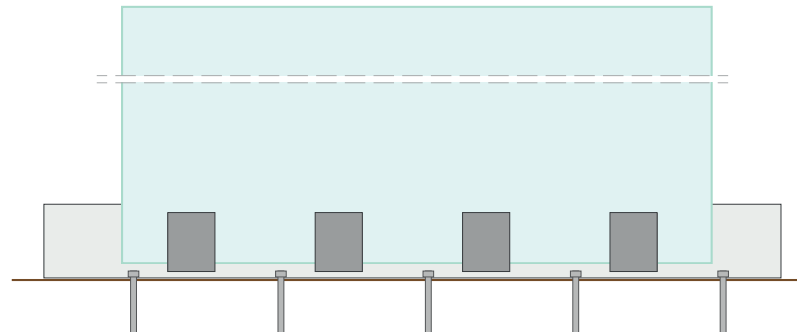


QUICK BLOCK

THE NEW, EVEN MORE PERFORMING SERIES



- It allows **ample adjustment of glass alignment**, $\pm 25/32$ " (± 20 mm) at top, for $3' 7 5/16$ " (1100 mm) high glass.
- It adjusts while standing**, benefiting installer safety and installation time.
- Adjustment is carried out on both sides of the clamp using a screwdriver extension.
- It allows both **tightening** and **adjustment**.
- It also allows **laying from the inside** only using the special INN accessory.
- It arrives assembled and is inserted into the profile before installing the glass.
- There are **different sized clamps**, suitable for standard thicknesses of laminated glass. For use of glass with plastic 0.030" (0.76 mm) or with special thickness tolerances, a plastic compensator, available in stock, can be inserted.
- Depending on the design load and the system used, **4 or 5 clamps/3' 3 3/8"** (1000 mm) are necessary
- The tightening torque of the screws is 5.9 ft/lb (9 Nm)
- A2 grade stainless steel screws - corrosion resistant



PLUS

- Only 2 screws for tightening and adjustment
- Easy and fast to use
- Compensatory accessory for different plastic thicknesses
- Allows laying from inside only
- A single, already assembled element is inserted in the profile
- Prepared for LED insertion



GARDA SP / AP / SPL
4 clamps every $3' 3 3/8$ " with PL1 200
5 clamps every $3' 3 3/8$ " with PL1 300

GLASS
L $3' 3 3/8$ " (1000 mm)

*LED insertion
gives a striking
night effect.*

”

Each Garda railing can be combined with LED use to **create a particularly surprising lighting effect.**

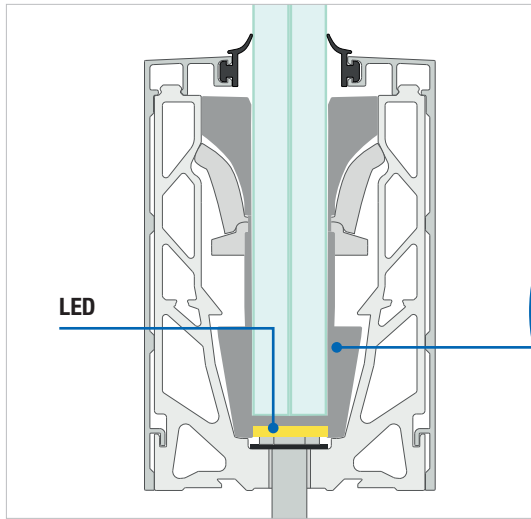
It is advisable to use extra clear glass since this striking solution can accentuate the presence of micro-dust that characterizes the internal surface of the plates (an aspect that cannot in any case be considered a defect).

Use is recommended of low intensity LED as this particular effect increases with increasing light intensity.

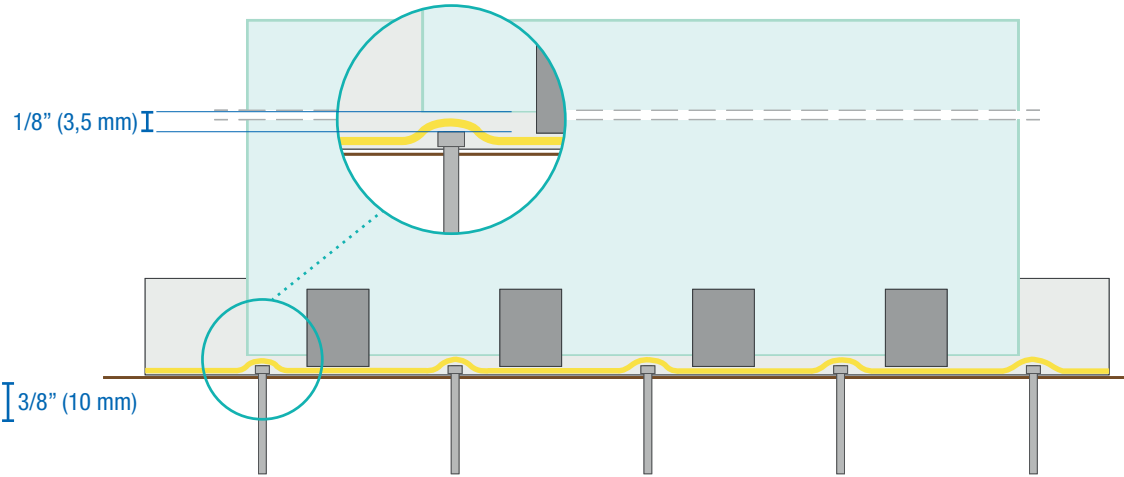
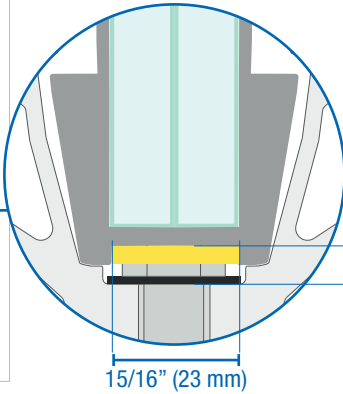


LED LIGHTING

LED STRIPS ARE NOT SUPPLIED BY ALUVETRO



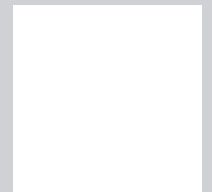
The fixing clamp is designed to obtain continuous lighting over the entire base of the glass.



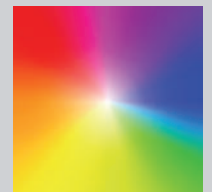
LAYING THE BALUSTRADES WITH LED

- 1 PERFORATE THE SLAB AND **FIX THE PROFILE** USING THE SPECIFIC PLUGS.
- 2 **LAY THE LED STRIP** INSIDE THE PROFILE
- 3 **ARRANGE THE CLAMPS** THE PROFILE **EVERY 9 53/64" (25 CM)**. DO NOT POSITION THE CLAMPS AT THE FIXING SCREWS.
- 4 **INSERT THE GLASS**, ADJUST INCLINATION AND TIGHTEN.

Conclude installation of the system by connecting the LED to the electrical system. **You are advised to assess each aspect with a professional useful for selection of the ideal LED.**



WHITE LIGHT



MULTICOLOR LIGHT (RGB)

WATER AND INFILTRATION

Proper water management

Professional and careful installation guarantees quality results also thanks to the application of different gaskets and profiles designed to prevent infiltration.



GASKETS FOR CARTER

Our carter-glass gaskets are made of a high performance terpolymer, with **high resistance to heat and atmospheric agents**.

They are inserted into the carter with the fins facing upwards and are designed for **quick and easy positioning**.

Proper use of gaskets ensures system durability and stable performance over time.

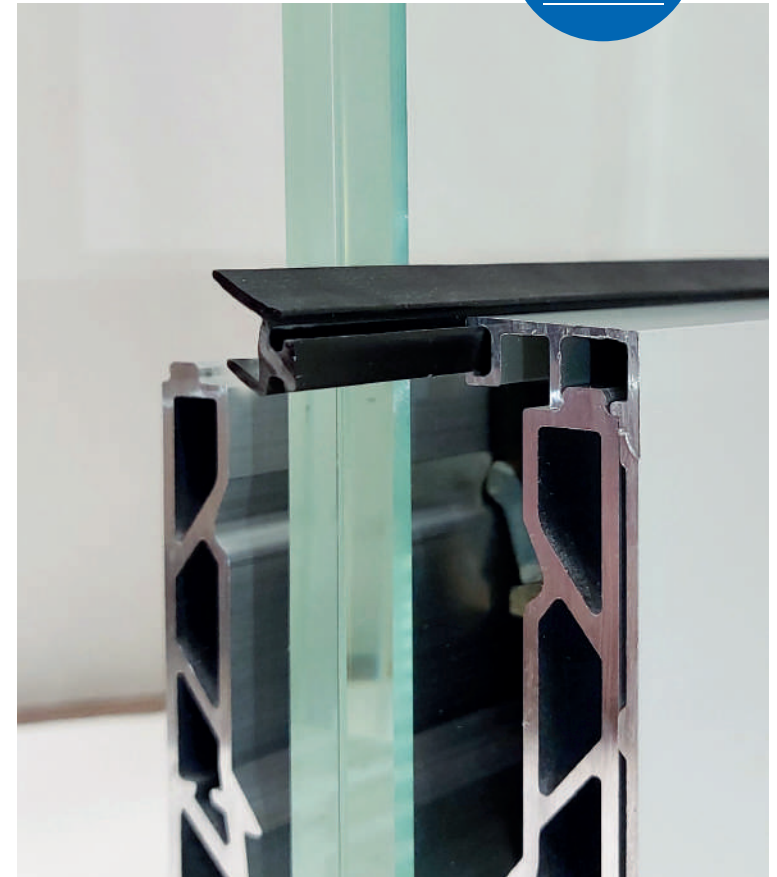
PLUS OF THE STANDARD VERSION

- FASTER USE IN LAYING PHASE (-70% of time taken for insertion)
- GREATER HANDLING
- EASIER AND FASTER INSERTION (slides better)
- DIFFERENT PERFORMANCE THANKS TO TWO MIXES PRESENT

GASKET SELECTION GUIDE DEPENDING ON THE SYSTEM AND THICKNESS OF THE GLASS

GLASS	GARDA STANDARD	GARDA SILICONE
1/4"+1/4" (6/6)	GK4	GUB4
5/16"+5/16" (8/8)	GK1	GUB1
3/8"+3/8" (10/10)	GK2	GUB2
1/2"+1/2" (12/12)	GK3	GUB3

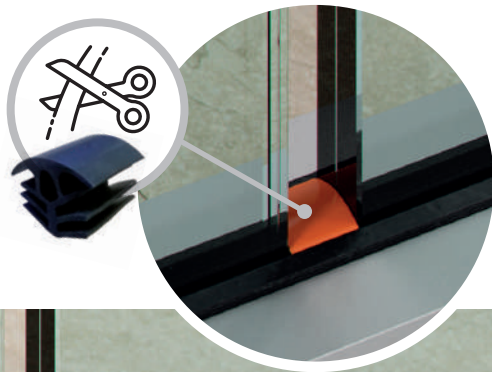
We are the only ones to offer two different seals as needed.



SOLUTION A

GASKET BETWEEN GLASS AND GLASS

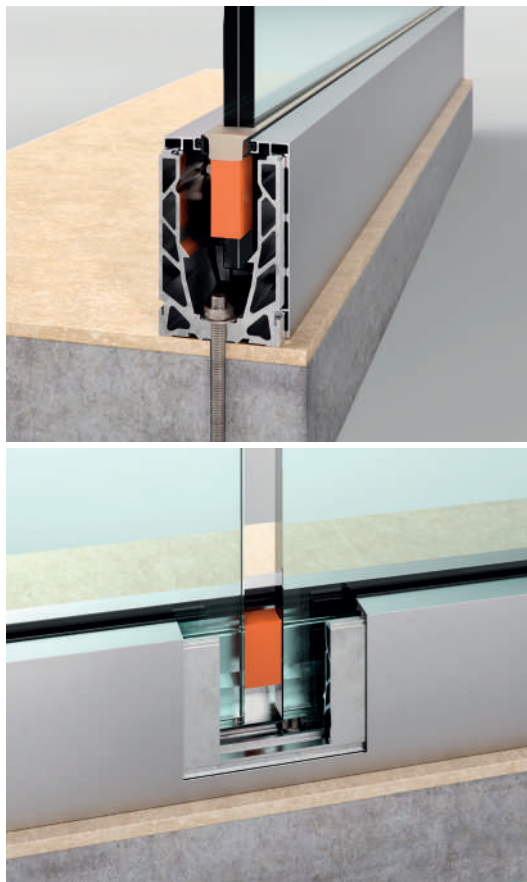
Small finishing element. It is cut on site and is positioned between the glass panes by simply pressing.



SOLUTION B

NEOPRENE CUBE BETWEEN THE PANELS

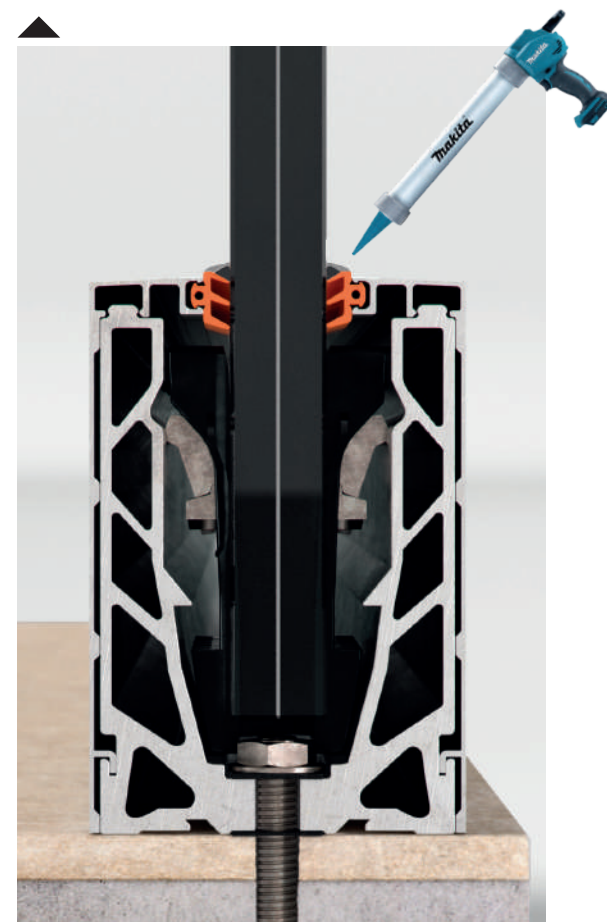
When the downward-facing glazing gasket is used, an adhesive neoprene cube is inserted between the panels to ensure water tightness. The installation is completed with silicone placed above the seal and neoprene.



SILICONE GASKET

COMPATIBLE

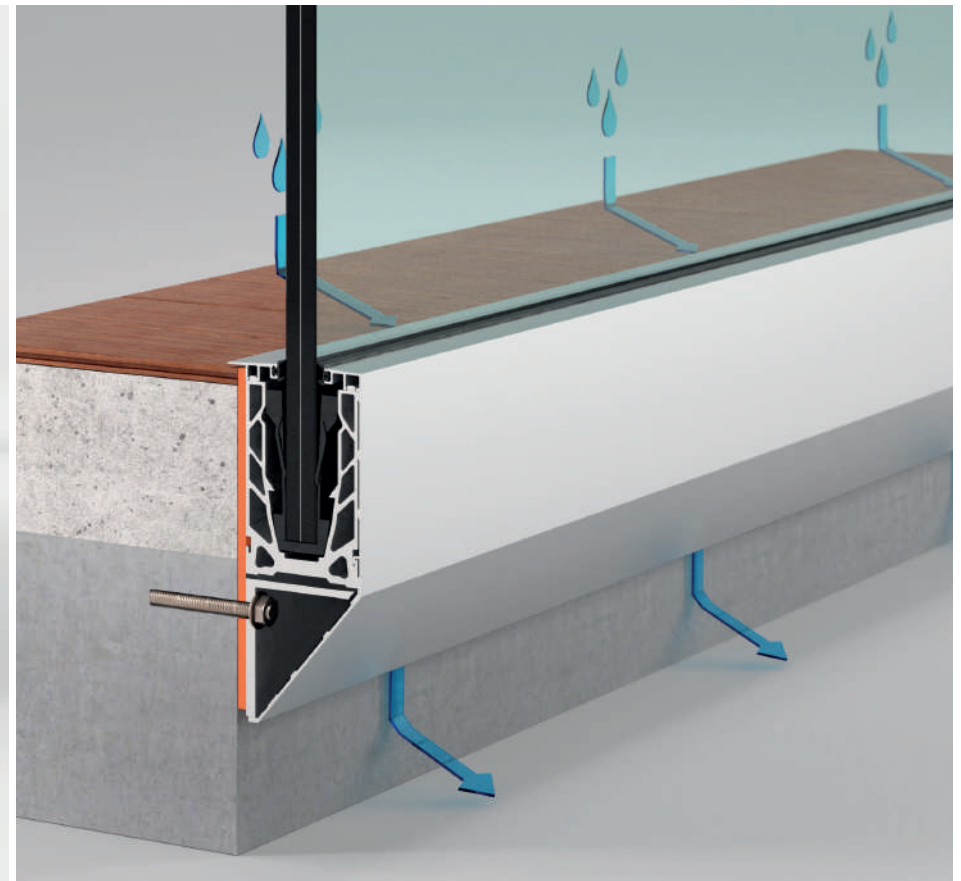
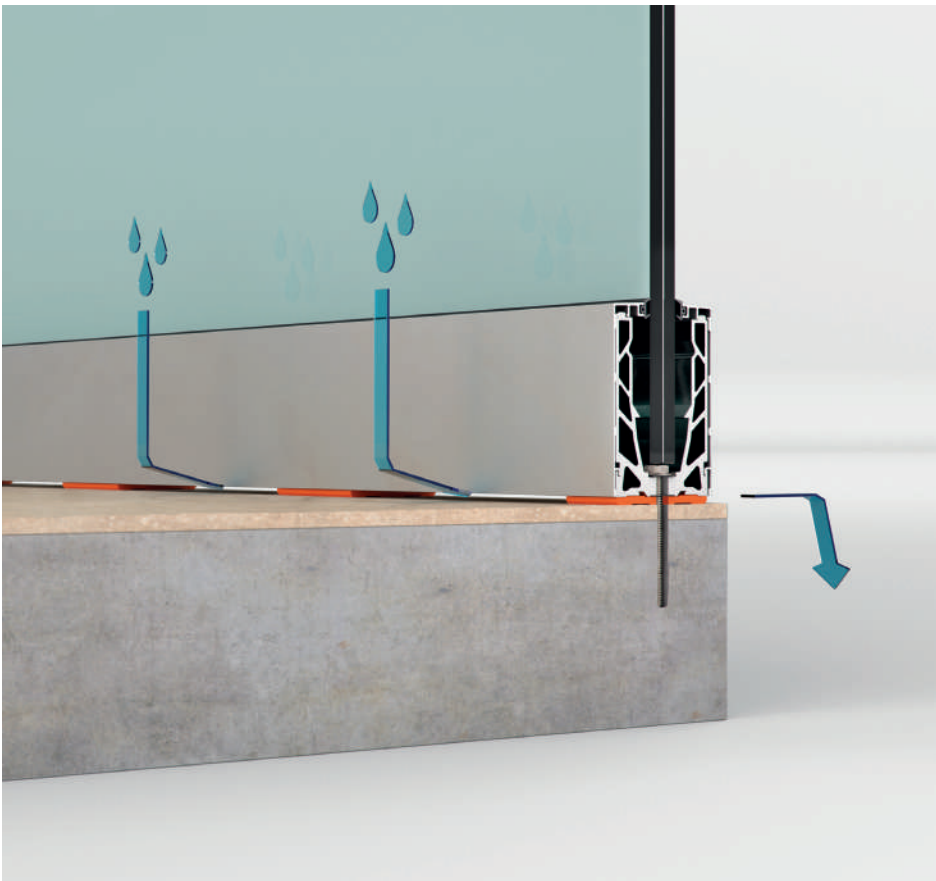
If necessary, it can be mounted with the wings down, and sealed with silicone, to ensure maximum sealing in extreme conditions.



DRY PAD

PERFORATED GUIDE FOR WATER RUNOFF

Optional element supplied to allow water runoff under the profile.
The two versions of Dry Pad are designed for ground or front slab installation.





GARDA SP

ABOVE PAVEMENT FIXING



FLORIDA
ZONE 4



IMPACT

LM / SM

DP

UP TO
±120 psf



MIAMI-DADE
COUNTY
NOA

THE BALUSTRADE REMAINING IN SIGHT

GARDA SP 200 / GARDA SP 300

Extruded aluminum profile whose feature is remaining in sight.

COMPATIBLE LAMINATED GLASS CONFIGURATION

Our system is compatible with the following laminated glass compositions, expressed in both imperial and metric standards.

Imperial (US) Format		Metric Format	
Configuration	Total Thickness	Configuration	Total Thickness
1/4" + 0.030" + 1/4"	≈ 1/2"	6 / 6.2	12.76 mm
1/4" + 0.060" + 1/4"	≈ 17/32"	6 / 6.4	13.52 mm
5/16" + 0.030" + 5/16"	≈ 21/32"	8 / 8.2	16.76 mm
5/16" + 0.060" + 5/16"	≈ 11/16"	8 / 8.4	17.52 mm
3/8" + 0.030" + 3/8"	≈ 13/16"	10 / 10.2	20.76 mm
3/8" + 0.060" + 3/8"	≈ 7/8"	10 / 10.4	21.52 mm
1/2" + 0.030" + 1/2"	≈ 31/32"	12 / 12.2	24.76 mm
1/2" + 0.060" + 1/2"	≈ 1"	12 / 12.4	25.52 mm

NOA TESTED LAMINATED GLASS CONFIGURATION

for 90psf

PL1 200 with glass 3/8" + 0.035" SGP + 3/8" (10/10 SGP 0.89 mm)

for 120psf

PL1 300 with glass 1/2" + 0.035" SGP + 1/2" (12/12 SGP 0.89 mm)



^
Inclination adjustment
of glass ± 25/32" (± 20 mm)

G A R D A SP200

ABOVE PAVEMENT FIXING



LINEAR LOAD ON THE HANDRAIL

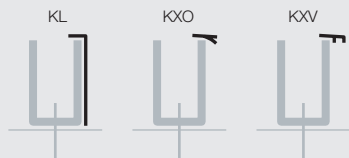
Design load 134,4 lb/ft (200 kg/m)

Ultimate limit state load 201,6 lb/ft (300 kg/m)

SUITABLE GLASS FOR NOA (DP UP TO 90 PSF)

Laminated glass 3/8" + 0.035" SGP + 3/8" (10/10 SGP 0.89 mm)

CARTER



CARTER COLORS

Finishes



Sand silver



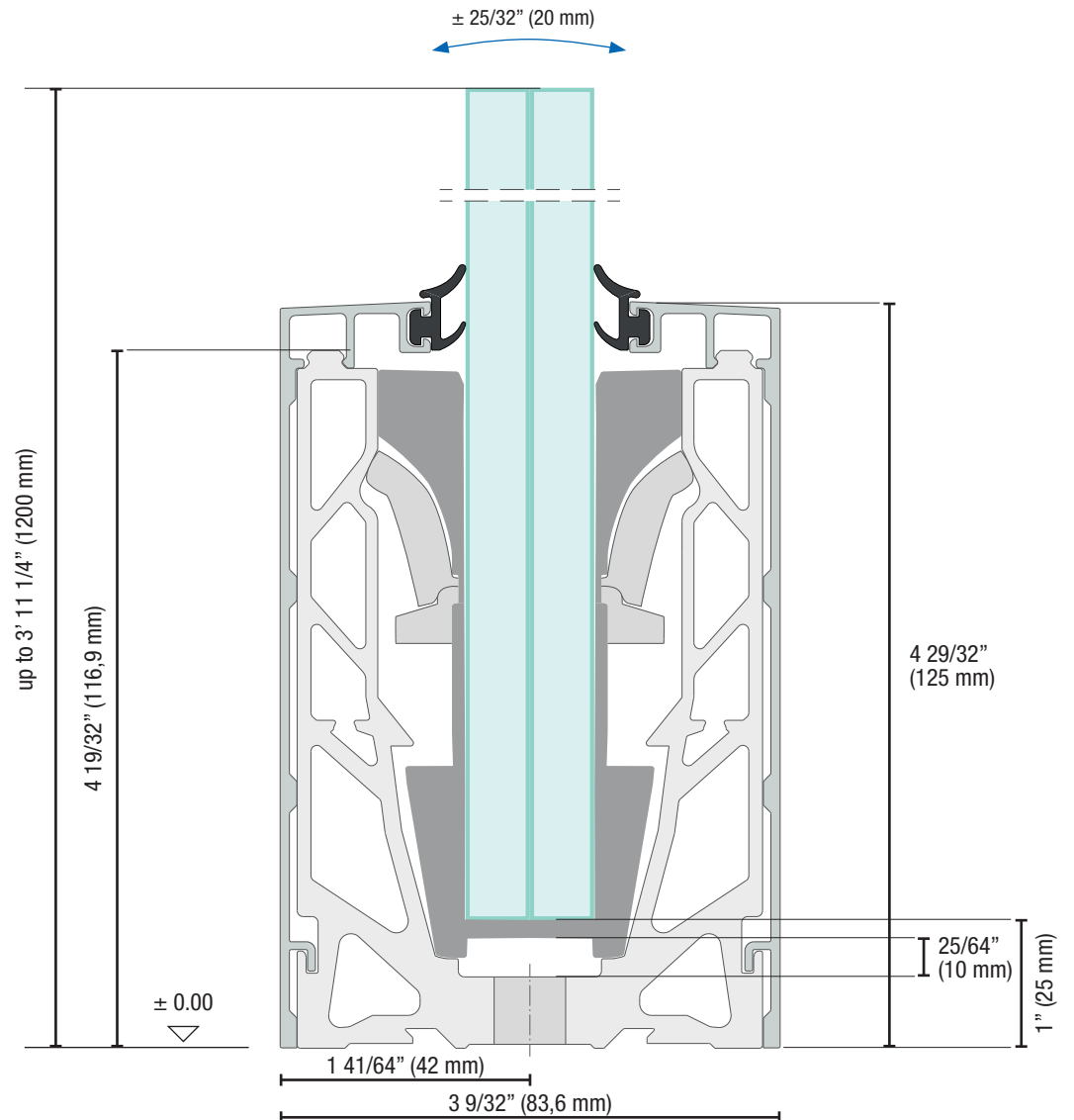
Sand black



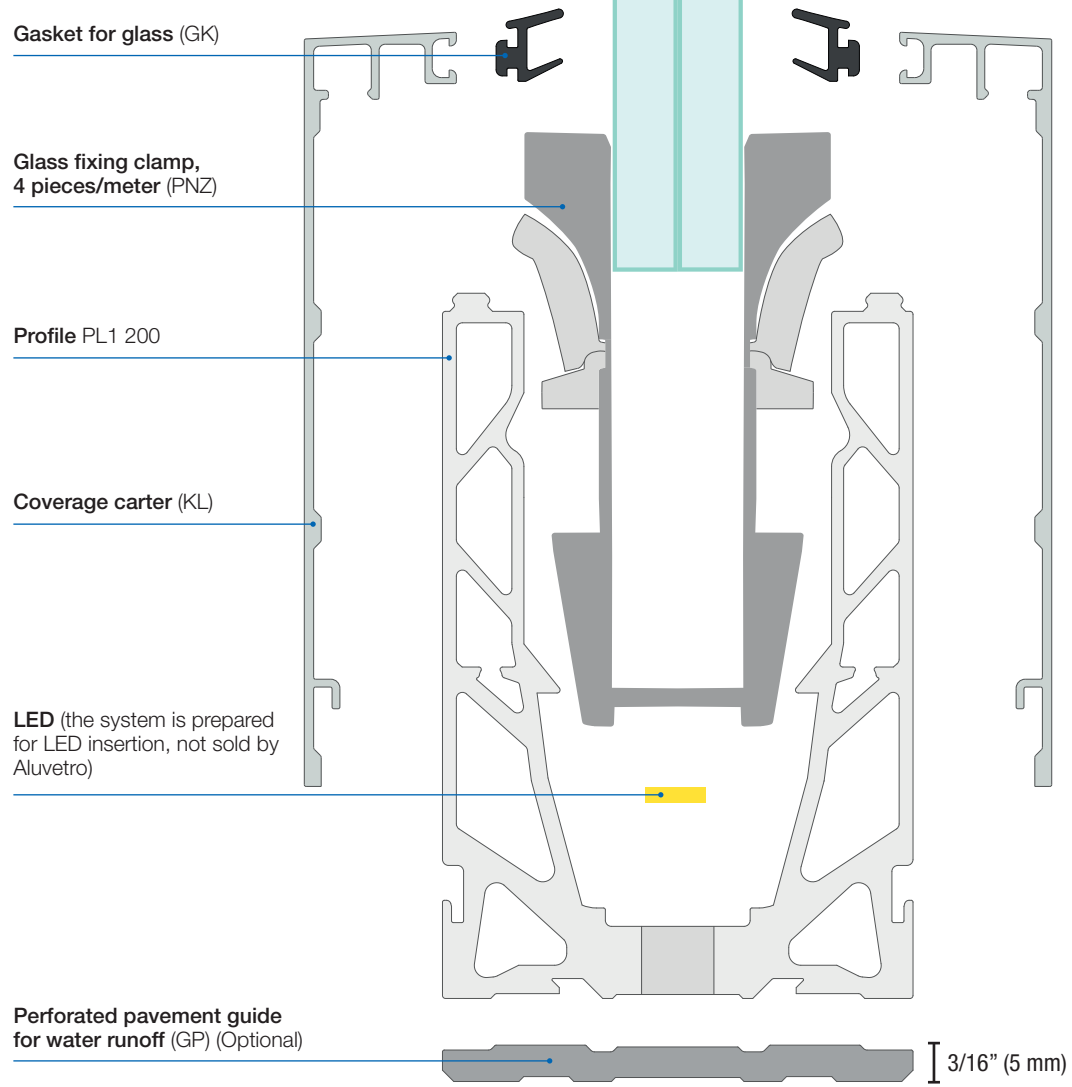
RAL on request
(from 2000 colors)

INTERNAL

EXTERNAL



ITEMS CODE



OPTIONAL SP 200



HANDRAIL



G A R D A SP300

ABOVE PAVEMENT FIXING



LINEAR LOAD ON THE HANDRAIL

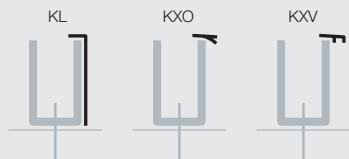
Design load 201.6 lb/ft (300 kg/m)

Ultimate limit state load 302,4 lb/ft (450 kg/m)

SUITABLE GLASS FOR NOA (DP UP TO 120 PSF)

Laminated glass 1/2" + 0.035" SGP + 1/2" (12/12 SGP 0.89 mm)

CARTER



CARTER COLORS

Finishes



Sand silver



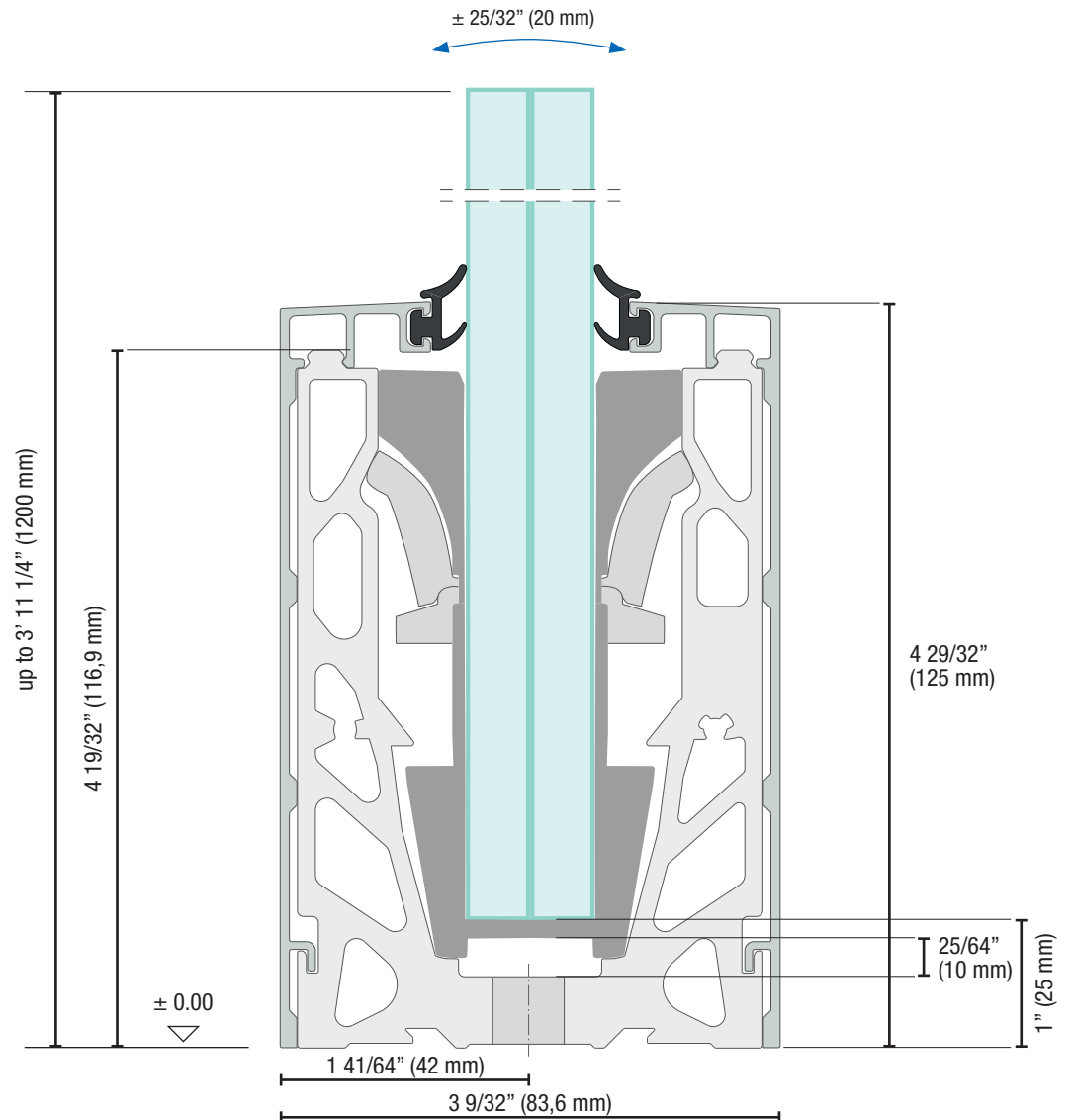
Sand black



RAL on request
(from 2000 colors)

INTERNAL

EXTERNAL



ITEMS CODE

Gasket for glass (GK)

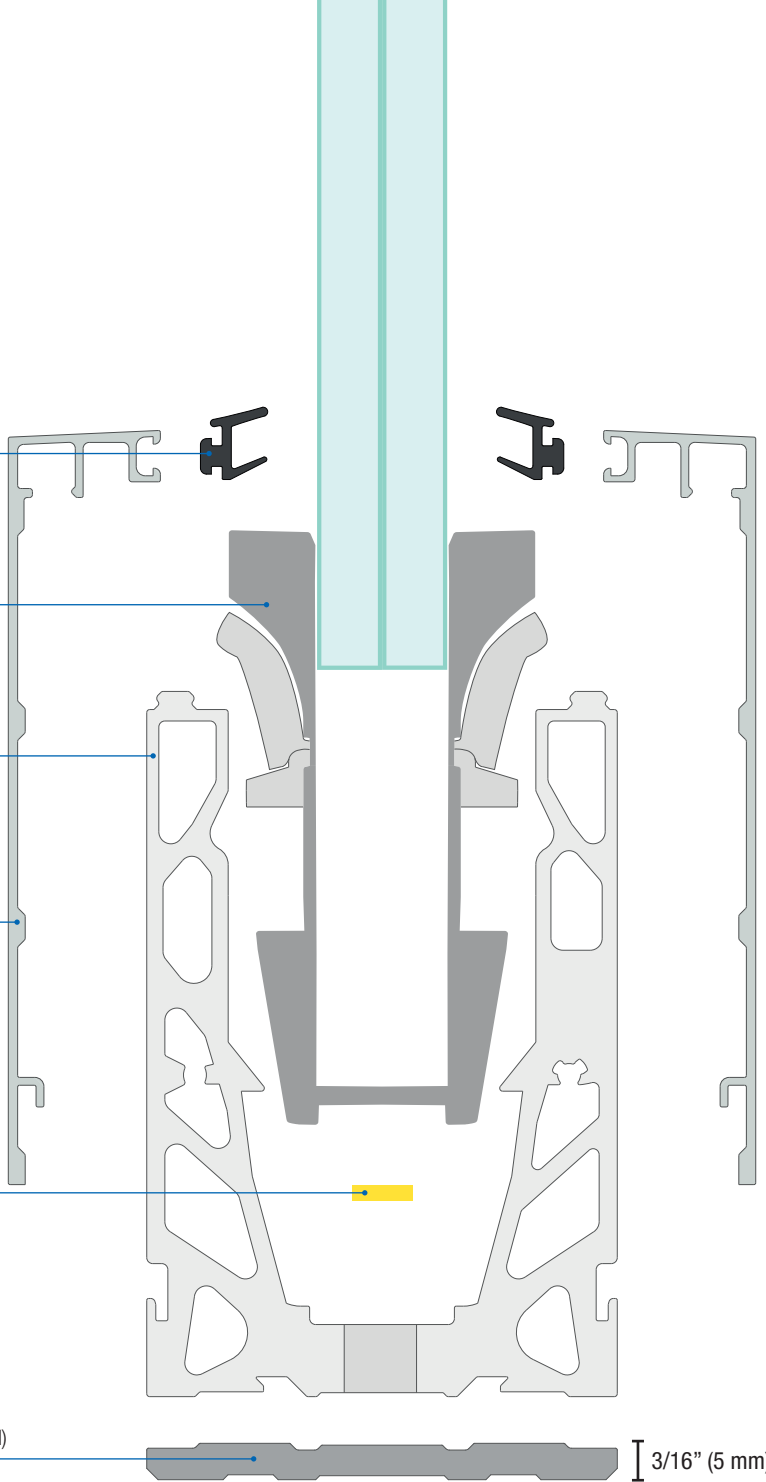
Glass fixing clamp, 5 pieces/meter (PNZ)

Profile PL1 300

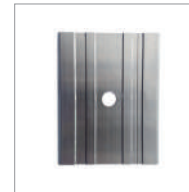
Coverage carter (KL)

LED (the system is prepared for LED insertion, not sold by Alu vetro)

Perforated pavement guide for water runoff (GP) (Optional)



OPTIONAL SP 300



PERFORATED PAVEMENT GUIDE FOR WATER RUNOFF



NEOPRENE CUBE BETWEEN THE PANELS



PAIR OF LAYING ACCESSORIES ONLY FROM INSIDE



GASKET BETWEEN GLASS



SCREWDRIVER EXTENSION INCLUDING INSERT



FINAL CLOSURE CAPS INCLUDING INSERT

HANDRAIL



COMPACT



ROUND

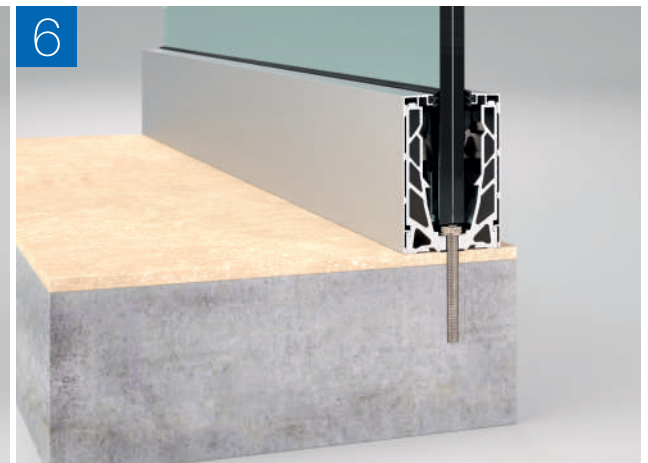
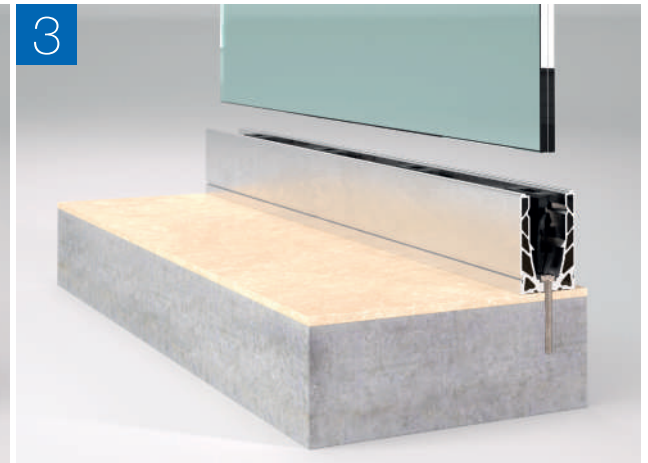
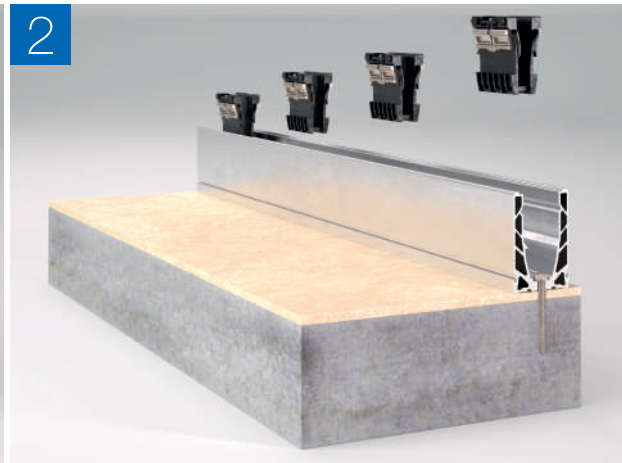
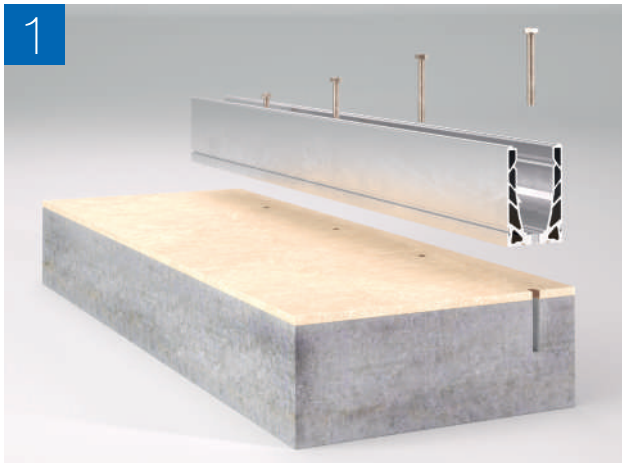
MOUNTING STEPS

Scan the QR and
watch the video
on laying



Each profile is ready for installation: the balustrade is completed by fixing screws, gaskets, carters, clamps. Final adjustment is carried out with the help of a simple Allen wrench or using an extension for the power tool, which makes it even faster to tighten the adjusting screws.

- 1 Drill the slab with a drill, position the profile and the fixing screws.
- 2 Lay the clamps inside the profile every 9 13/16" (25 cm). Do not position the clamps at the fixing screws.
- 3 Insert the glass.
- 4 Adjust inclination of the glass using the screws on the clamps and tighten.
- 5 Lay the carters on which the gasket was previously inserted.
- 6 Installation complete.





G A R D A AP

FIXING
BELOW PAVEMENT



THE CHOICE FOR MINIMALIST DESIGN

GARDA AP 200 / GARDA AP 300

It is the minimalist version of the balustrade system, which offers maximum transparency and simplicity, thanks to elegant and essential design.

COMPATIBLE LAMINATED GLASS CONFIGURATION

Our system is compatible with the following laminated glass compositions, expressed in both imperial and metric standards.

Imperial (US) Format		Metric Format	
Configuration	Total Thickness	Configuration	Total Thickness
1/4" + 0.030" + 1/4"	≈ 1/2"	6 / 6.2	12.76 mm
1/4" + 0.060" + 1/4"	≈ 17/32"	6 / 6.4	13.52 mm
5/16" + 0.030" + 5/16"	≈ 21/32"	8 / 8.2	16.76 mm
5/16" + 0.060" + 5/16"	≈ 11/16"	8 / 8.4	17.52 mm
3/8" + 0.030" + 3/8"	≈ 13/16"	10 / 10.2	20.76 mm
3/8" + 0.060" + 3/8"	≈ 7/8"	10 / 10.4	21.52 mm
1/2" + 0.030" + 1/2"	≈ 31/32"	12 / 12.2	24.76 mm
1/2" + 0.060" + 1/2"	≈ 1"	12 / 12.4	25.52 mm

NOA TESTED LAMINATED GLASS CONFIGURATION

for 90psf

PL1 200 with glass 3/8" + 0.035" SGP + 3/8" (10/10 SGP 0.89 mm)

for 120psf

PL1 300 with glass 1/2" + 0.035" SGP + 1/2" (12/12 SGP 0.89 mm)



^
Inclination adjustment
of glass ± 25/32" (± 20 mm)

G A R D A AP200

FIXING BELOW PAVEMENT



LINEAR LOAD ON THE HANDRAIL

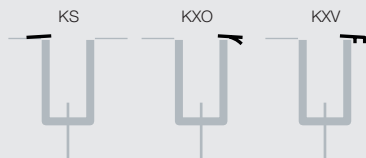
Design load 134,4 lb/ft (200 kg/m)

Ultimate limit state load 201,6 lb/ft (300 kg/m)

SUITABLE GLASS FOR NOA (DP UP TO 90 PSF)

Laminated glass 3/8" + 0.035" SGP + 3/8" (10/10 SGP 0.89 mm)

CARTER



CARTER COLORS

Finishes



Sand silver



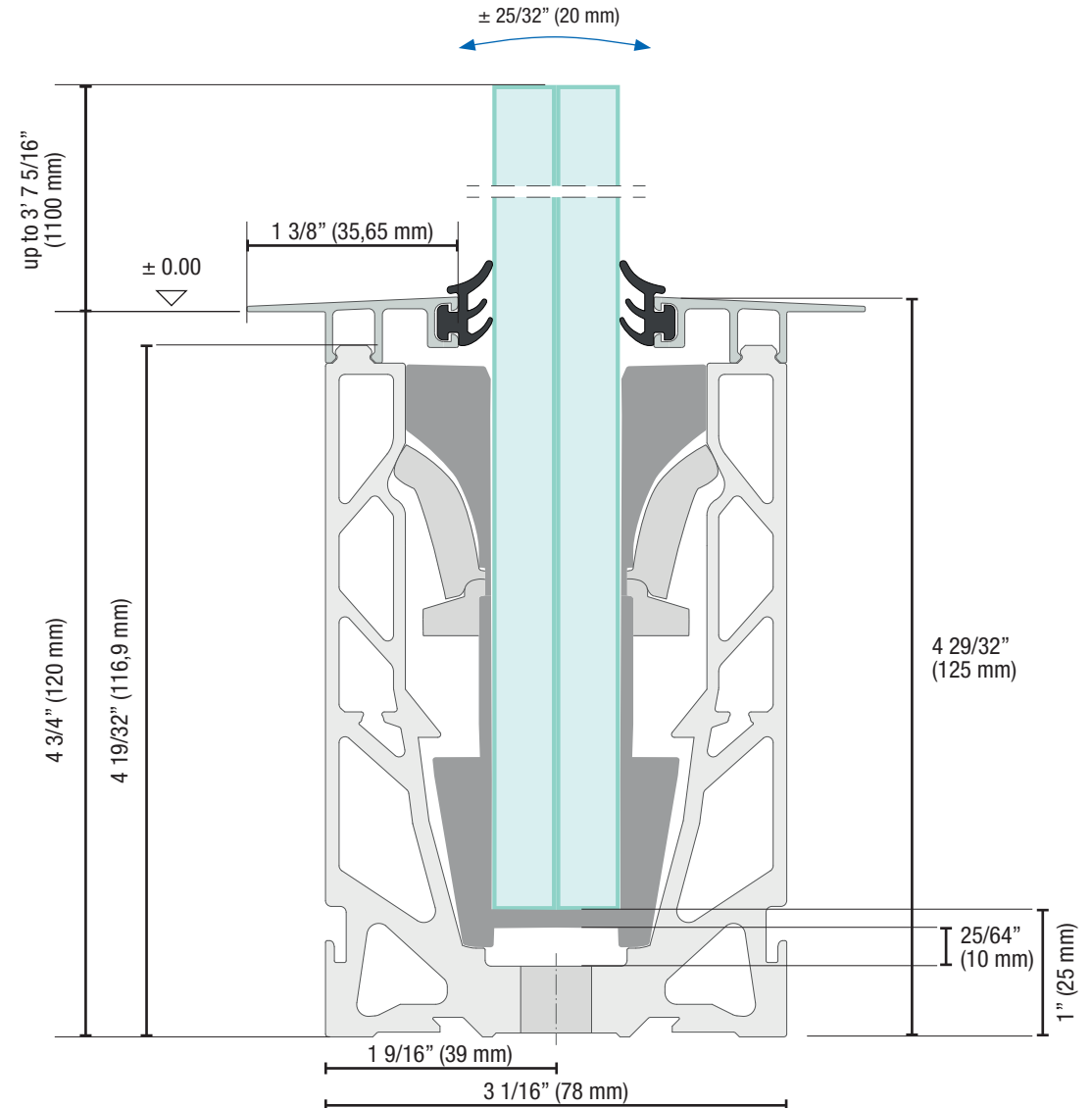
Sand black



RAL on request
(from 2000 colors)

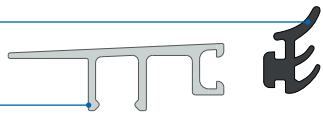
INTERNAL

EXTERNAL



ITEMS CODE

Gasket for glass (GU)

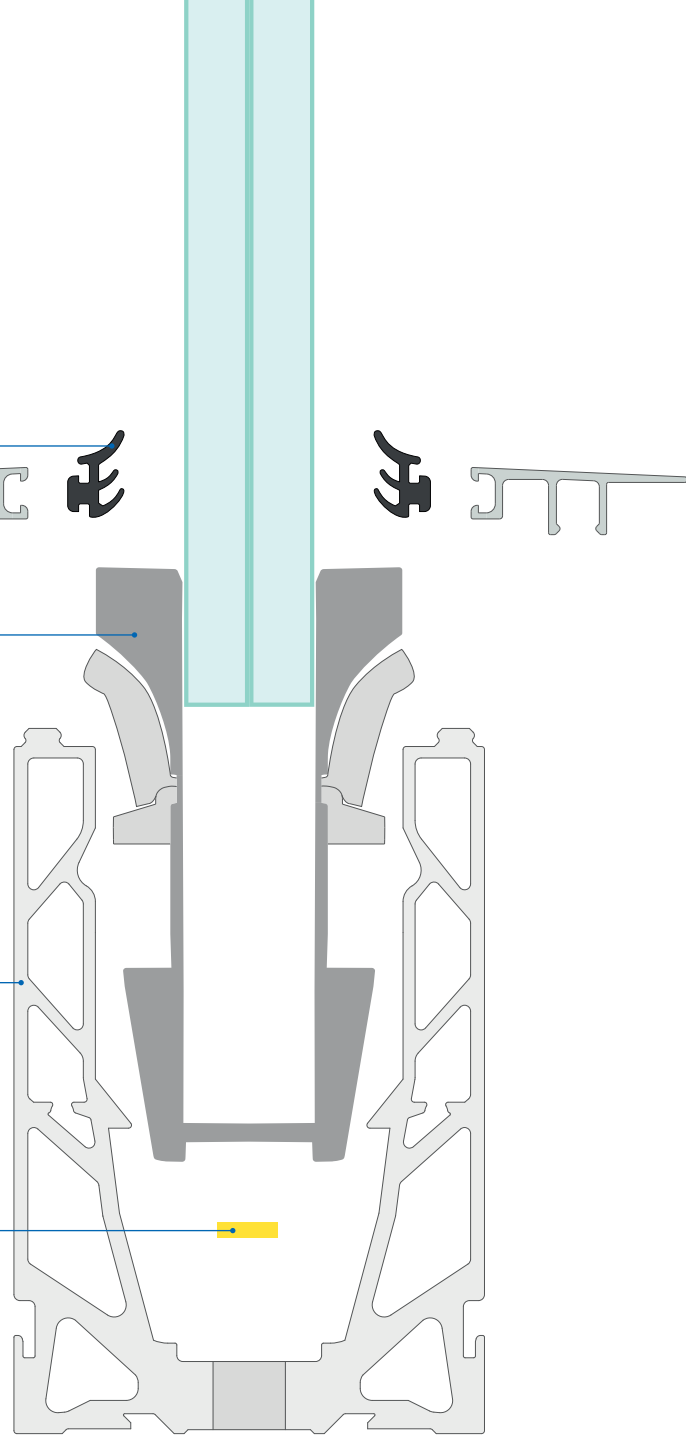


Coverage carter (KS)

Glass fixing clamp, 4 pieces/meter (PNZ)

Profile PL1 200

LED (the system is prepared for LED insertion, not sold by Alu vetro)



OPTIONAL AP 200



GASKET BETWEEN GLASS



PAIR OF LAYING ACCESSORIES ONLY FROM INSIDE



SCREWDRIVER EXTENSION INCLUDING INSERT



NEOPRENE CUBE BETWEEN THE PANELS

HANDRAIL



COMPACT



ROUND

G A R D A AP300

FIXING BELOW PAVEMENT



LINEAR LOAD ON THE HANDRAIL

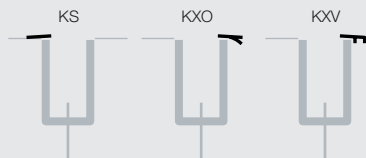
Design load 201.6 lb/ft (300 kg/m)

Ultimate limit state load 302,4 lb/ft (450 kg/m)

SUITABLE GLASS FOR NOA (DP UP TO 120 PSF)

Laminated glass 1/2" + 0.035" SGP + 1/2" (12/12 SGP 0.89 mm)

CARTER



CARTER COLORS

Finishes



Sand silver



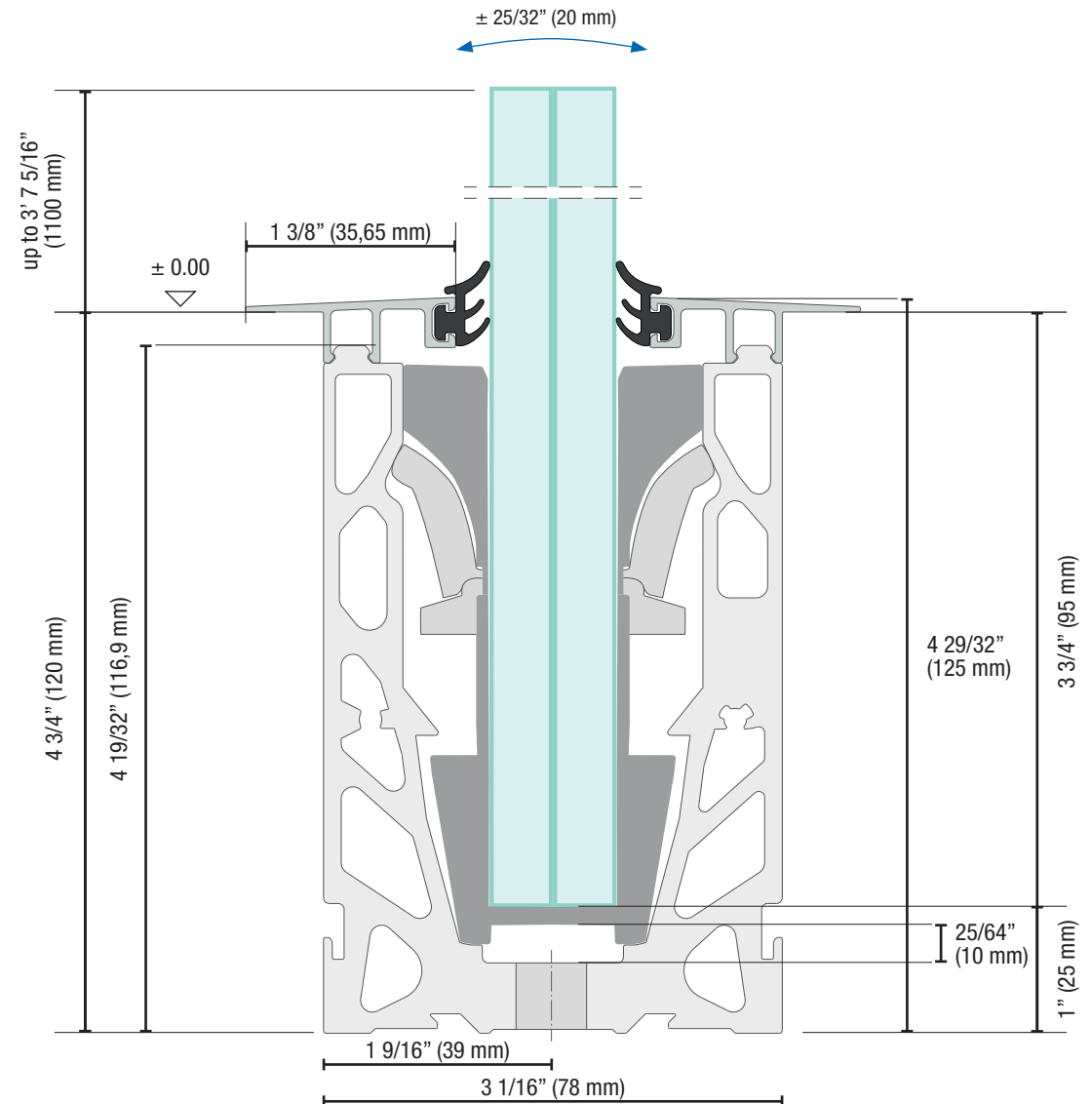
Sand black



RAL on request
(from 2000 colors)

INTERNAL

EXTERNAL



ITEMS CODE

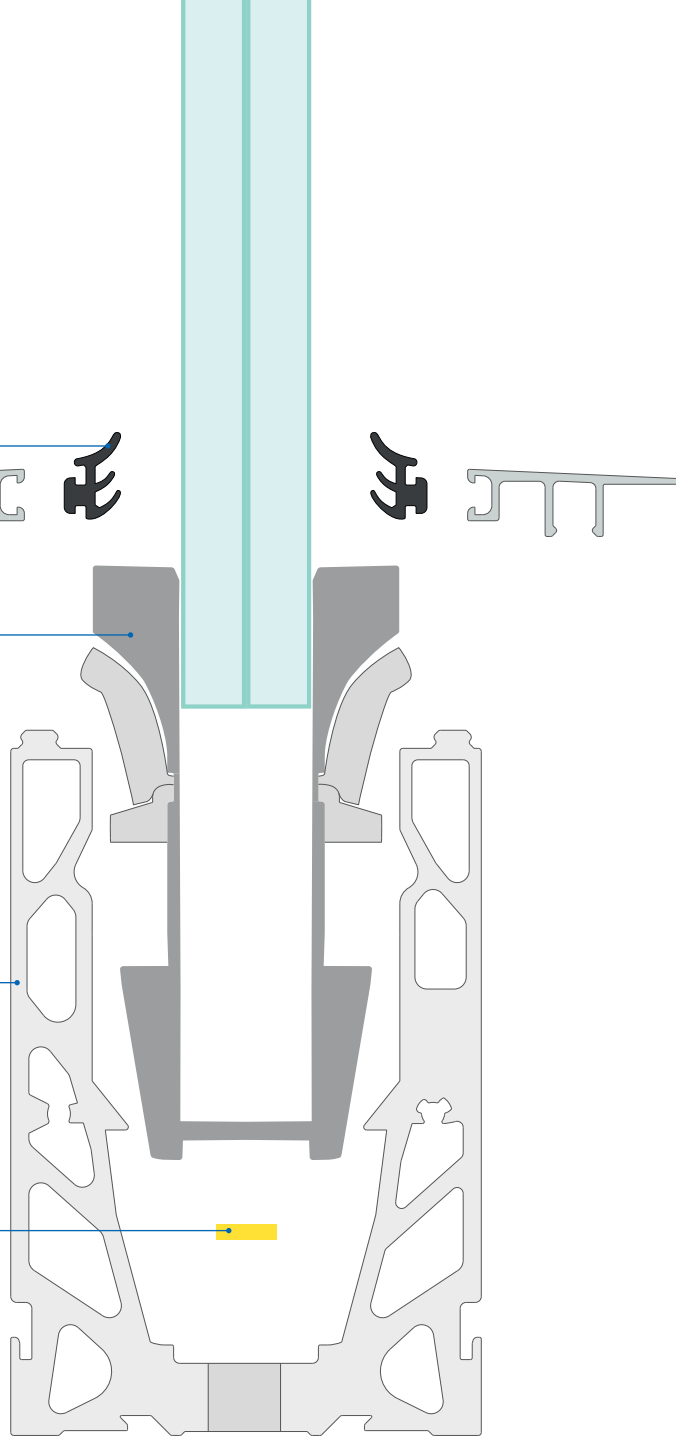
Gasket for glass (GU)

Coverage carter (KS)

Glass fixing clamp,
5 pieces/meter (PNZ)

Profile PL1 300

LED (the system is prepared for LED
insertion, not sold by Aluvetro)



OPTIONAL AP 300



GASKET BETWEEN GLASS



PAIR OF LAYING ACCESSORIES
ONLY FROM INSIDE



SCREWDRIVER EXTENSION
INCLUDING INSERT



NEOPRENE CUBE BETWEEN
THE PANELS

HANDRAIL



COMPACT



ROUND

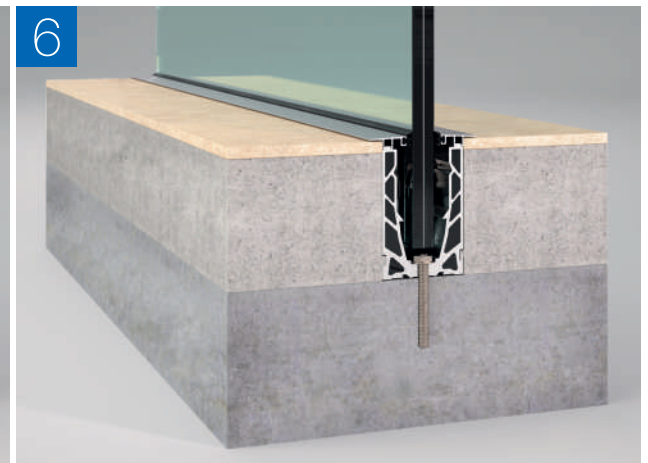
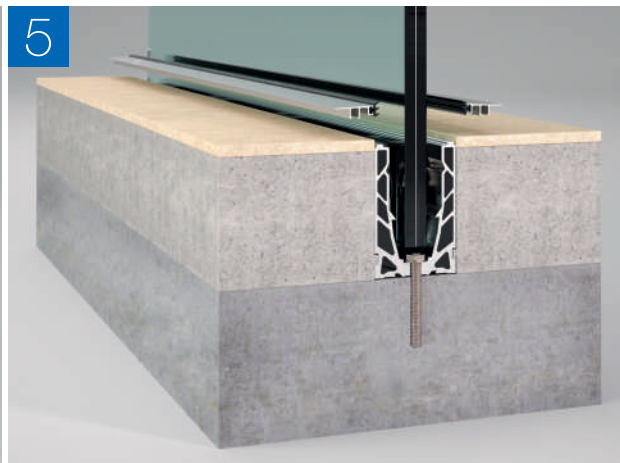
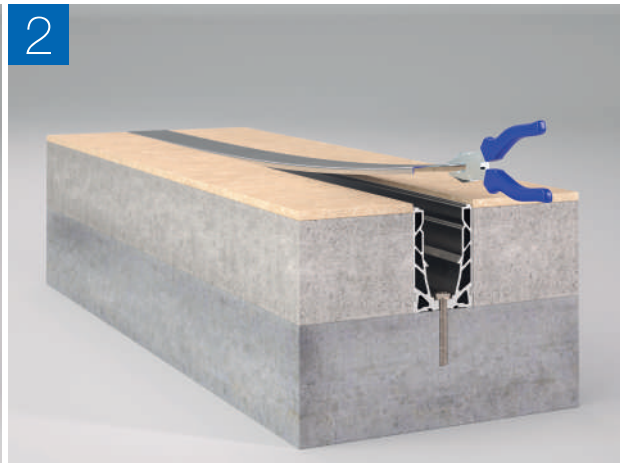
MOUNTING STEPS

Each profile is ready for installation: the balustrade is completed by fixing screws, gaskets, carters, clamps. Final adjustment is carried out with the help of a simple Allen wrench or using an extension for the power tool, which makes it even faster to tighten the adjustment screws.

- 1 Drill the slab with a drill, position the profile, the fixing screws and the temporary coverage carter to avoid inerts soiling the profile during the building site phase.
- 4 Adjust inclination of the glass using the screws on the clamps and tighten.

- 2 Lift the temporary coverage carter to start laying the accessories.
- 5 Insert the gaskets on the finishing carter and position the carter on the profile.

- 3 Lay the clamps inside the profile every 9 13/16" (25 cm). Do not position the clamps at the fixing screws and insert the glass.
- 6 Installation complete.





G A R D A

SPL

FRONT-SLAB FIXING



FLORIDA
ZONE 4



IMPACT

LM / SM

DP

UP TO
±120 psf

MIAMI-DADE
COUNTY

NOA

EXPLOIT EVERY TERRACE TO THE MAXIMUM

GARDA **SPL 200** / GARDA **SPL 300**

Extruded aluminum profile whose feature is remaining in sight.

COMPATIBLE LAMINATED GLASS CONFIGURATION

Our system is compatible with the following laminated glass compositions, expressed in both imperial and metric standards.

Imperial (US) Format		Metric Format	
Configuration	Total Thickness	Configuration	Total Thickness
1/4" + 0.030" + 1/4"	≈ 1/2"	6 / 6.2	12.76 mm
1/4" + 0.060" + 1/4"	≈ 17/32"	6 / 6.4	13.52 mm
5/16" + 0.030" + 5/16"	≈ 21/32"	8 / 8.2	16.76 mm
5/16" + 0.060" + 5/16"	≈ 11/16"	8 / 8.4	17.52 mm
3/8" + 0.030" + 3/8"	≈ 13/16"	10 / 10.2	20.76 mm
3/8" + 0.060" + 3/8"	≈ 7/8"	10 / 10.4	21.52 mm
1/2" + 0.030" + 1/2"	≈ 31/32"	12 / 12.2	24.76 mm
1/2" + 0.060" + 1/2"	≈ 1"	12 / 12.4	25.52 mm

NOA TESTED LAMINATED GLASS CONFIGURATION

for 90psf

PL1 200 with glass 3/8" + 0.035" SGP + 3/8" (10/10 SGP 0.89 mm)

for 120psf

PL1 300 with glass 1/2" + 0.035" SGP + 1/2" (12/12 SGP 0.89 mm)



^
Inclination adjustment
of glass ± 25/32" (± 20 mm)

G A R D A SPL200

FRONT-SLAB FIXING



LINEAR LOAD ON THE HANDRAIL

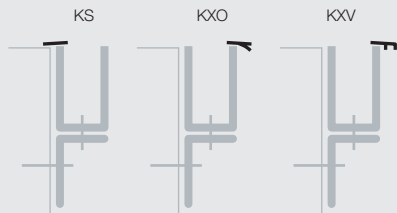
Design load 134,4 lb/ft (200 kg/m)

Ultimate limit state load 201,6 lb/ft (300 kg/m)

SUITABLE GLASS FOR NOA (DP UP TO 90 PSF)

Laminated glass 3/8" + 0.035" SGP + 3/8" (10/10 SGP 0.89 mm)

CARTER



CARTER COLORS

Finishes



Sand silver



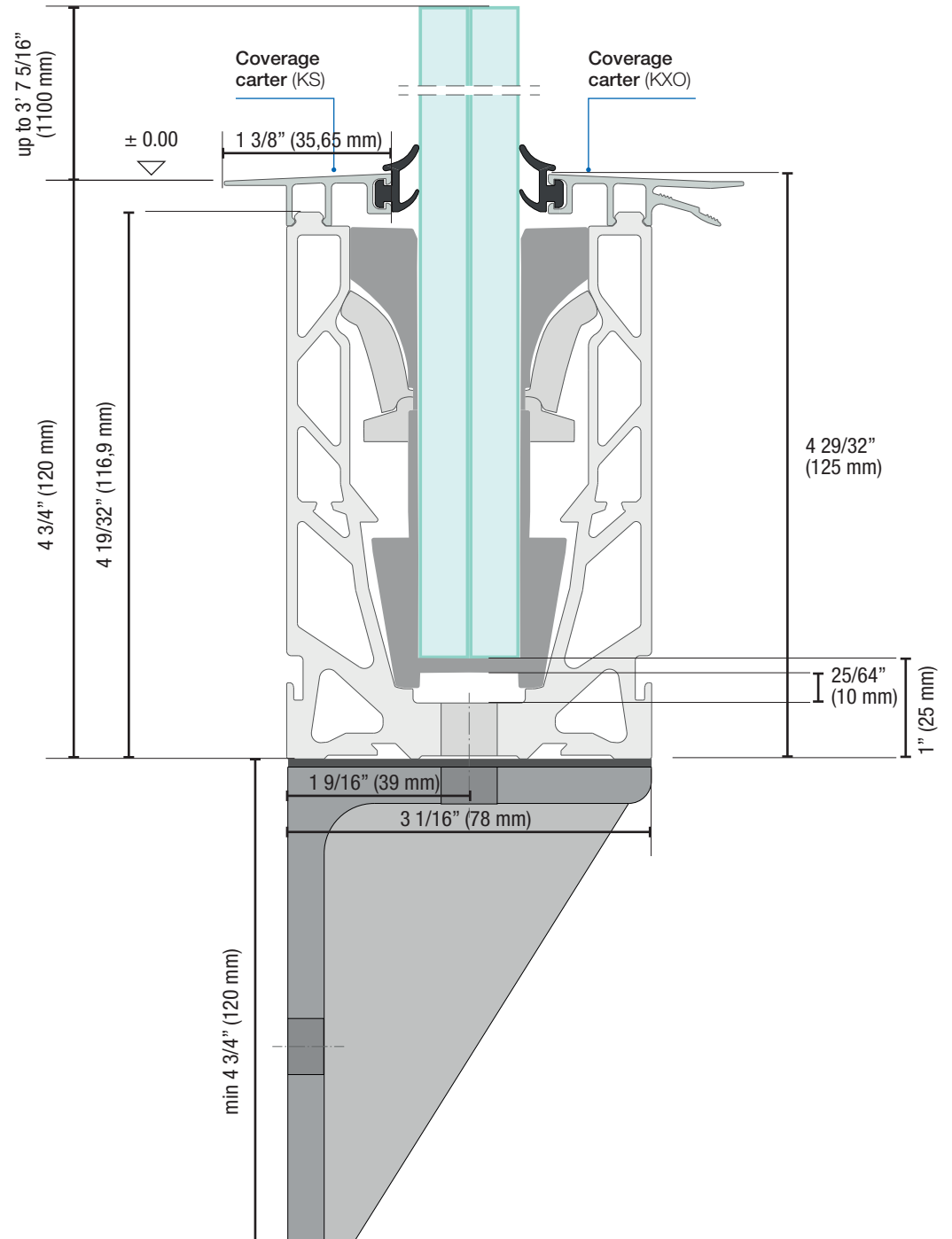
Sand black



RAL on request
(from 2000 colors)

INTERNAL

EXTERNAL



ITEMS CODE

Coverage carter (KS)

Gasket for glass (GK)

Glass fixing clamp,
4 pieces/meter (PNZ)

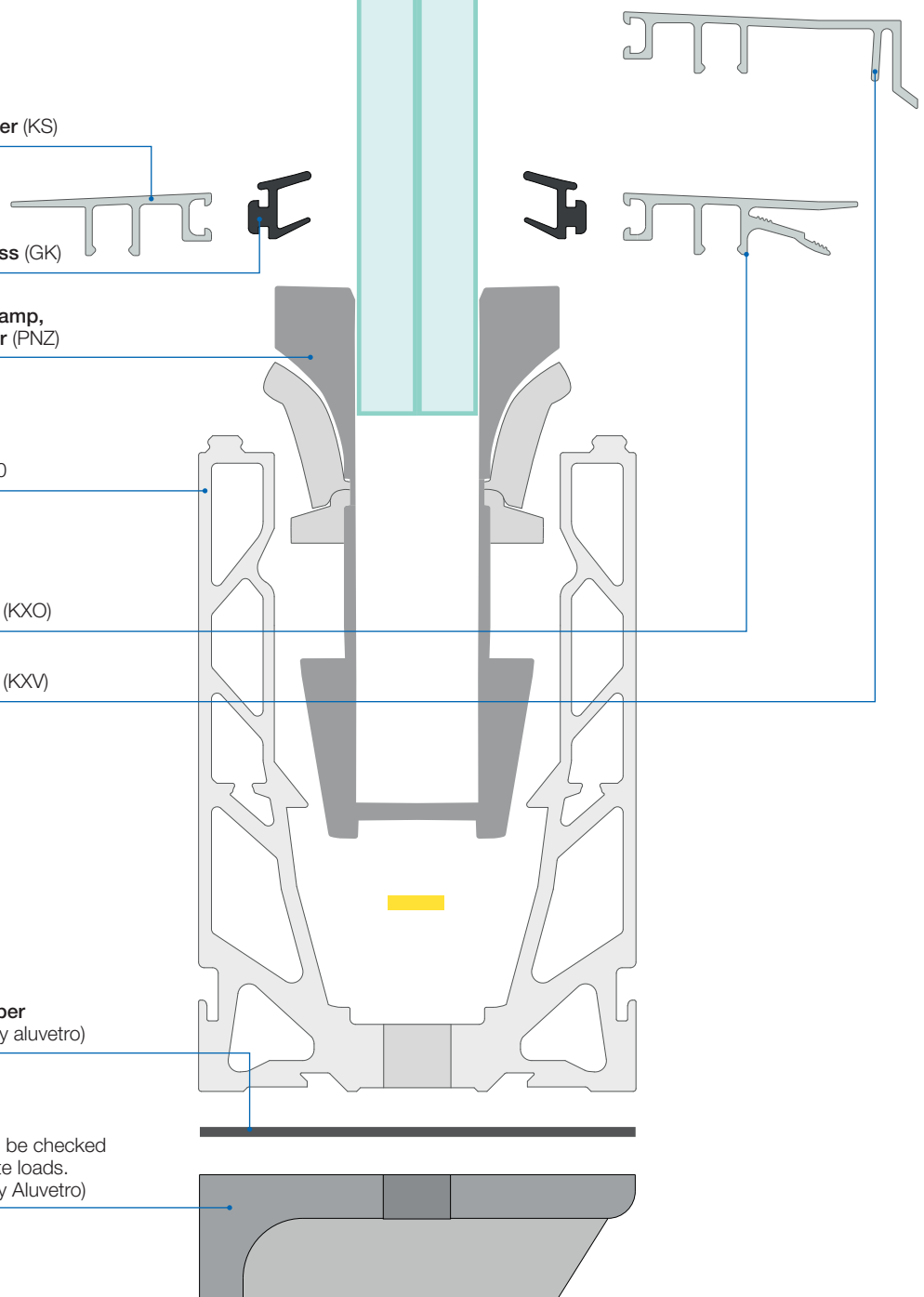
Profile PL1 200

Carter special (KXO)

Carter special (KXV)

Insulating rubber
(not provided by alu vetro)

Steel beam (to be checked
according to site loads.
Not provided by Alu vetro)



OPTIONAL SPL



PERFORATED PAVEMENT
GUIDE FOR WATER RUNOFF



NEOPRENE CUBE BETWEEN
THE PANELS



PAIR OF LAYING ACCESSORIES
ONLY FROM INSIDE



GASKET BETWEEN GLASS



SCREWDRIVER EXTENSION
INCLUDING INSERT



FINAL CLOSURE CAPS
INCLUDING INSERT

HANDRAIL



COMPACT



ROUND

G A R D A SPL300

FRONT-SLAB FIXING



LINEAR LOAD ON THE HANDRAIL

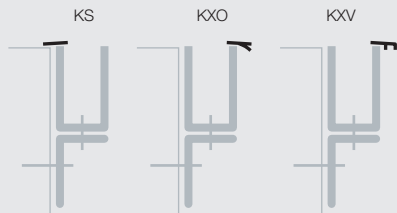
Design load 201.6 lb/ft (300 kg/m)

Ultimate limit state load 302,4 lb/ft (450 kg/m)

SUITABLE GLASS FOR NOA (DP UP TO 120 PSF)

Laminated glass 3/8" + 0.035" SGP + 3/8" (12/12 SGP 0.89 mm)

CARTER



CARTER COLORS

Finishes



Sand silver



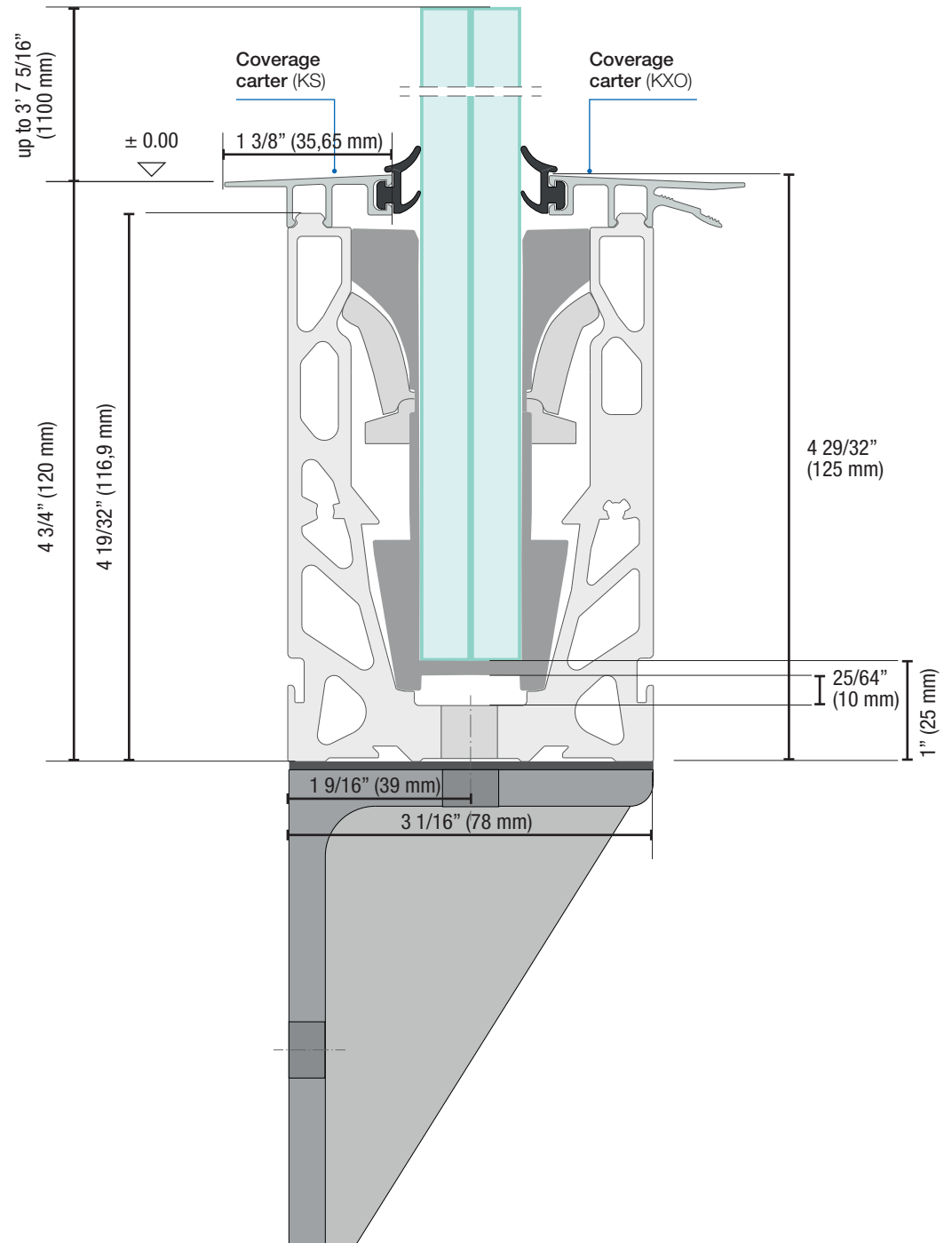
Sand black



RAL on request
(from 2000 colors)

INTERNAL

EXTERNAL



ITEMS CODE

Coverage carter (KS)

Gasket for glass (GK)

Glass fixing clamp,
4 pieces/meter (PNZ)

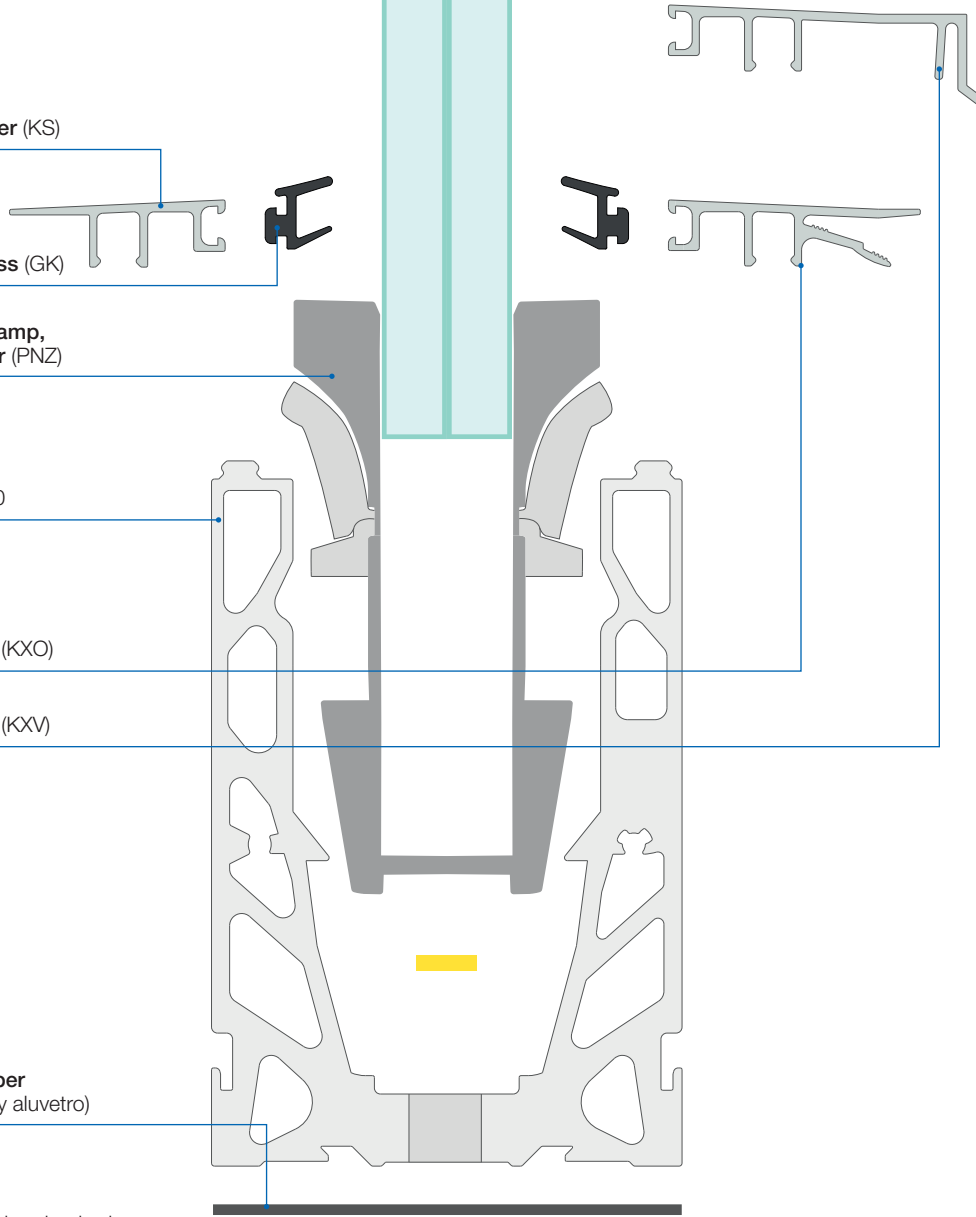
Profile PL1 300

Carter special (KXO)

Carter special (KXV)

Insulating rubber
(not provided by alu vetro)

Steel beam (to be checked
according to site loads.
Not provided by Alu vetro)



OPTIONAL SPL



PERFORATED PAVEMENT
GUIDE FOR WATER RUNOFF



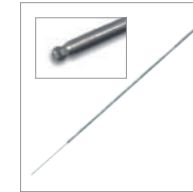
NEOPRENE CUBE BETWEEN
THE PANELS



PAIR OF LAYING ACCESSORIES
ONLY FROM INSIDE



GASKET BETWEEN GLASS



SCREWDRIVER EXTENSION
INCLUDING INSERT



FINAL CLOSURE CAPS
INCLUDING INSERT

HANDRAIL



COMPACT

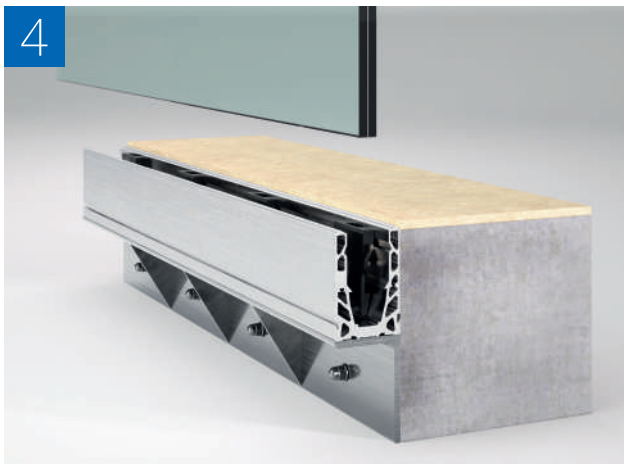
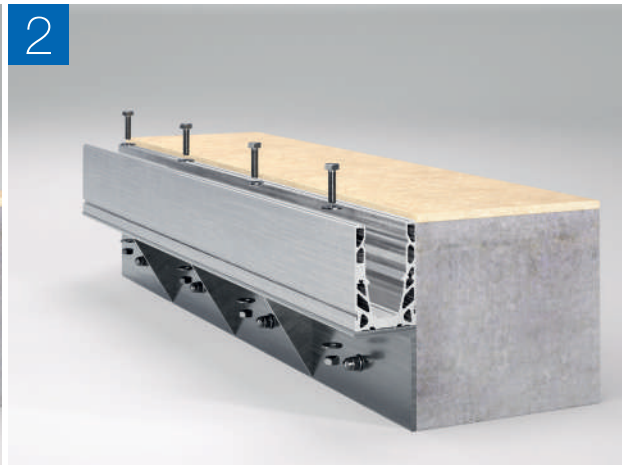


ROUND

MOUNTING STEPS

Each profile is ready for installation: the balustrade is completed by fixing screws, gaskets, carters, clamps. Final adjustment is carried out with the help of a simple Allen wrench or using an extension for the screwdriver, which makes it even faster to tighten the adjustment screws.

- 1 Drill the slab and fix the supporting carpentry with the chosen type of fastening.
- 2 Position the Aluvetro profile and fix it using through screws and nuts.
- 3 Position the clamps as indicated in the technical datasheet.
- 4 Position the glass.
- 5 Adjust and tighten the glass using the clamp screws.
- 6 Position the cover plates with the appropriate gaskets inserted on the inside and outside of the balcony.



amaximo no natu u
ni omoedomo au koto

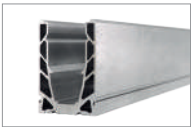




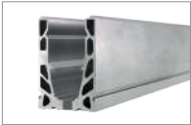
SYSTEM COMPONENTS

GARDA

GARDA SYSTEM COMPONENTS



Perforated base profile for Garda SP200 and AP200		
Code	Length	
PL1 200	118 1/4"- 236 7/32" (3-6 m)	



Perforated base profile for Garda SP300 and AP300		
Code	Length	
PL1 300	118 1/4"- 236 7/32" (3-6 m)	



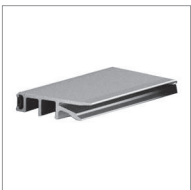
Side casing		
Code	Length	Colour
KL ARG-SB-3	118 1/4"- 236 7/32" (3-6 m)	Sand silver anodized
KL NERO-SB-3	118 1/4"- 236 7/32" (3-6 m)	Sand black anodized



Upper carter		
Code	Length	Colour
KS ARG-SB-3	118 1/4"- 236 7/32" (3-6 m)	Sand silver anodized
KS NERO-SB-3	118 1/4"- 236 7/32" (3-6 m)	Sand black anodized



Special casing in vertical sheet metal or vertical plasterboard		
Code	Length	Colour
KXV ARG-SB-3	118 1/4"- 236 7/32" (3-6 m)	Sand silver anodized
KXV NERO-SB-3	118 1/4"- 236 7/32" (3-6 m)	Sand black anodized



Special casing for horizontal metal sheet		
Code	Length	Colour
KXO ARG-SB-3	118 1/4"- 236 7/32" (3-6 m)	Sand silver anodized
KXO NERO-SB-3	118 1/4"- 236 7/32" (3-6 m)	Sand black anodized



GARDA clamp		
Code	Glass size	
PNZ6	6/6.4	
PNZ8	8/8.4	
PNZ10	10/10.4	
PNZ12	12/12.4	



Seal for casing			
Code	Colour - Notes		
GKB 1	Black		
GKB 2	Black		
GKB 3	Black		
GKB 4	Black		
GUW 1	White		
GUW 2	White		
GUW 3	White		



Compact Handrail		
Code	Length	Colour
CORCO ARG-SB-3	118 1/4"- 236 7/32" (3-6 m)	Sand silver anodized
CORCO NERO-SB-3	118 1/4"- 236 7/32" (3-6 m)	Sand black anodized

For glass 11/16" - 7/8" - 1" (8/8.4 - 10/10.4 - 12/12.4)



Round Handrail		
Code	Length	Colour
CORD2 ARG-SB-3	118 1/4"- 236 7/32" (3-6 m)	Sand silver anodized
CORD2 NERO-SB-3	118 1/4"- 236 7/32" (3-6 m)	Sand black anodized

For glass 11/16" - 7/8" - 1" (8/8.4 - 10/10.4 - 12/12.4)



Gasket for Round and Compact handrails			
Code	Dim. Glass	Colour	
GC 6	6/6.4	Black	
GC 8	8/8.4	Black	
GC 10	10/10.4	Black	
GC 12	12/12.4	Black	



Straight joint for Round and Compact handrails		
Code		
SQRETT		



Corner joint for Round and Compact handrails		
Code		
SQ90		

OPTIONAL



Glass compensator with plastic .2

Code	Glass dimensions
CO	1/2" - 11/16" (6/6.2 - 8/8.2)



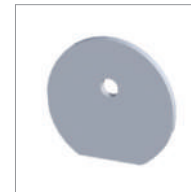
Compact handrail cap

Code	Colour
TCORCO ARG-SB-3	Sand silver anodized
TCORCO NERO-SB-3	Sand black anodized



Accessories for installation only on the inner side

Code	Notes
IN	Insert into the clamps IN the seats provided (to be ordered 2 each clamp)



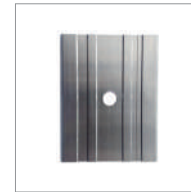
Round handrail cap

Code	Colour
TCORD ARG-SB-3	Sand silver anodized
TCORD NERO-SB-3	Sand black anodized



Screwdriver extension including insert

Code	Notes
PR55	Extension for screwdriver including insert
PR INS	Replacement insert for extension accessory



DRY PAD - Perforated floor guide for water drainage

Code	Length
GP	3 15/16" (100 mm)
GP2	3 15/16" (100 mm)



Temporary coverage of the basic profile

Code	Length	Colour
KCH	118 1/4"- 236 7/32" (3-6 m)	natural



Gasket between glass

Code	Colour
GV BLACK	Black



Neoprene cube between the glass plates

Code	Dimensions	Colour
CB	13/16"x1 3/16"x1 31/32" (20x30x50 mm)	Black



End cap for Garda SP200 and SP300

Code	Colour
T1 ARG-SB-3	Sand silver anodized
T1 NERO-SB-3	Sand black anodized





About Aluvetro

The italian railings specialist



Aluvetro is a leader in the production and sales of railing system, with a modern design made in Italy, **certified** anti-hurricane and easy to install.

Compliance with regulations and certifications, allow us to guarantee our customers the **highest quality** products.

THAT'S WHY WE ARE **THE RAILING SPECIALIST**



Miami, Florida

8150 NW 64TH St.
Miami, FL 33166

Savannah, Georgia

2367 A Tremont Rd. #100
Savannah, GA 31405

Houston, Texas

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Houston, TX 77038

 (800) 576 - 6044  sales@Interglassusa.com