

faraone.it







Take care of the people you love.

With the latest generation of Ninfa balustrades.



In 2008, the first meters of what would later become a reference system for glass balustrades in Italy were shipped: the Ninfa system.

At the time, this system was relegated to the last pages of the balustrade catalogue, after the stainless steel systems, occupying a small space with a single article.

Thirteen years and five series later, breaking records over records, the Ninfa balustrade system has definitely conquered designers and operators of the Italian sector, becoming a best-selling item with over 800,000 meters installed from 2008 to the end of 2021. By the end of 2023, we had installed over 1,350,000 meters.

Now in its sixth generation, the Ninfa 6 series has new records to break, which we see as a natural evolution of design inherited from the previous series. For the market it is a real technological innovation that will stand out for its unique design and performance.

The entire range stems from our desire to always look forward by aiming for continuous innovation, aimed at improving its performance, its beauty, its functionality, its ease of installation and much more.

Among the main new records you will find the simplicity of the management of glass thicknesses and the possibility of using higher glass, much higher (to meet current demands), with calculation verifications and laboratory tests in total compliance with the regulations.

We do all this not because the market requires it, but because we strongly believe in what we do and always want to raise the level of the category.

Welcome to our new innovation.

Flavio Faraone

CEO of Faraone Transparent Architectures

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WHY USE THE NEW NINFA FARAONE BALUSTRADE SYSTEM?

After more than 50 years in the world of Transparent Architecture, Ninfa is still the best-selling "all-glass" balustrade in Italy.

The Ninfa glass balustrades by Faraone are synonymous with experience, comfort and safety for outdoor environments such as balconies, terraces, poolside fencing, fences; and for indoor environments such as stairways, galleries and walkways.

The reason for using the new Ninfa series 6 balustrades by Faraone can be found in some of the following records achieved to date:

- 1. The Ninfa system by Faraone was the first industrialized all-glass balustrade to arrive on the market in Italy since 2008, previously there were mainly handcrafted or "do-it-yourself" solutions;
- 2. To date, more than 1,350,000 meters (1,476,378 yd) of Ninfa balustrade have been installed in Italy with total customer satisfaction;
- 3. Ninfa was the first balustrade to use the "only from the inside" assembly methodology since 2016 and today it reduces assembly times by 40% compared to the market average;
- Ninfa the 6th series is the first glass balustrade system that fully complies with static calculations, which are verified by our technical department with inimitable performances;
- 5. Ninfa the 6th series is the first to present its technology package with the "RS system";
- 6. Ninfa series 6 offers high customization and prestigious finishes for the profile and for the glass;
- 7. NINFA 116, the profile with mounting flush with the wall and/or for solutions with floating floors.



Sabatino Faraone PRESIDENT



Flavio Faraone CHIEF EXECUTIVE OFFICER / CEO



Pamela Faraone

ADMINISTRATIVE MANAGEMENT



Federico Vallese
ORGANIZATIONAL MANAGEMENT



Ninfa the 6th series is not just a product. These are some numbers related to the world of Ninfa: 47,000 orders processed to direct customers; 1,350,000 meters (1,476,378 yd) installed equal to 135,000 homes with Ninfa balustrades (about 10 meters/10.93 yd per home). A network of consultants throughout Italy is ready to offer maximum assistance for every need, starting from simple technical or commercial advice to the definition of the design. The internal department is also able to guide you in choosing the most suitable product for you or to respond to your emergencies.

Below we have tried to answer the main FAQs (frequently asked questions), to illustrate how Faraone solves the main technical problems, at the construction site and as assistance service. In the final part there is a section related to Ninfa's references.











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NINFA THE SERIES 6: ONCE AGAIN THE REFERENCE POINT OF **GLASS BALUSTRADES**

The whole series 6 of NINFA glass balustrades has been verified by analytical calculation and real tests.

News: the new RS technology for a faster installation.



THE GLASS **BALUSTRADE WITH AN ULTRA SLIM DESIGN**

(It's ideal for mounting on a low wall)

THE MINIMAL BUT **HIGH-PERFORMING BALUSTRADE** (ideal for for private places like balconies and terraces, and uncrowded public places)

THE GLASS **BALUSTRADE TO BE MOUNTED FLUSH** WITH THE EXTERNAL SIDE OF THE FLOOR **AND FOR SOLUTIONS INTEGRATED INTO** THE FLOOR (ideal for private places like balconies and terraces, and uncrowded public spaces)

THE GLASS **BALUSTRADE WITH** HIGH **PERFORMANCE** (ideal for public and crowded places)

THE GLASS **BALUSTRADE WITH INTERNAL SIDE FIXING** (ideal for private and crowded public places)

THE GLASS **BALUSTRADE WITH EXTERNAL SIDE FIXING** (ideal for private and crowded public places)

faraone it **NINFA THE SERIES 6**

A RECORD THAT IS STILL UNDEFEATED: INSTALLATION ON THE INSIDE ONLY

Install-time optimization



When the Faraone R&D department designs a balustrade, they also think about the installation phases.

That's why all the NINFA series 6 technology is even easier and quicker to install.

The glass is assembled exclusively from the inside to offer a better installation experience and greater safety for the installer, who is not forced to work from the outside.

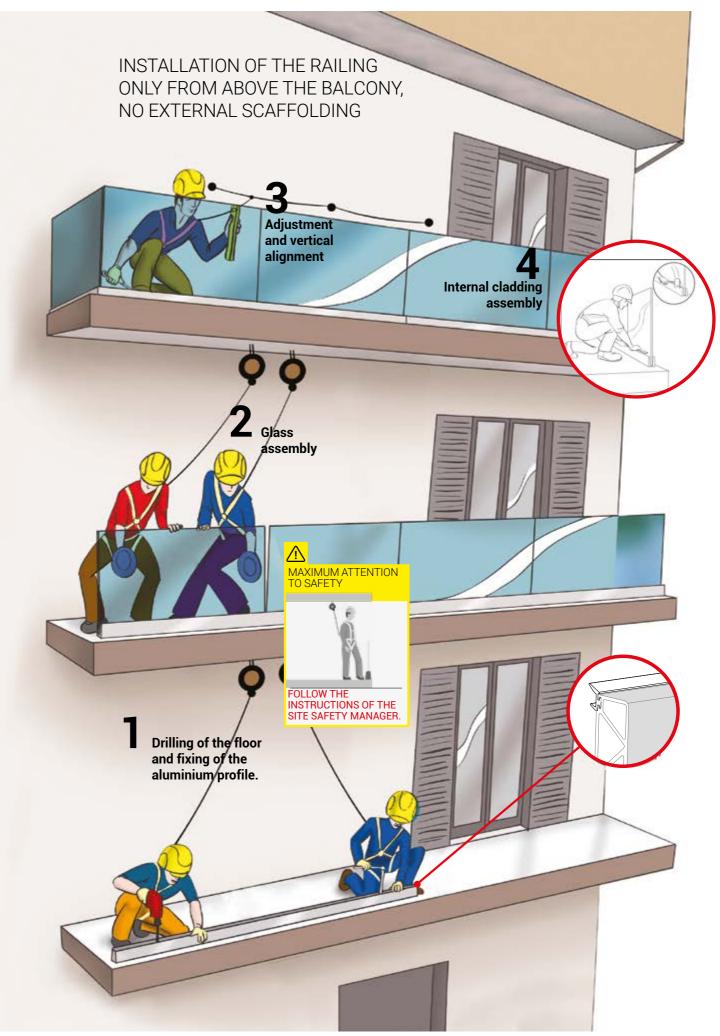
Also for the Ninfa 186 profile, which is fascia mounted, the glass is mounted only from the inside.

It is advisable to contact "expert hands" to be sure to get a state-of-the-art installation.





Watch the installation video of Ninfa 106



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THE NEW NINFA PROJECT

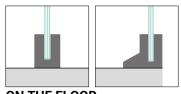
The new NINFA Series 6 project further improves the previous series with a more practical and faster glass adjustment system.

PATENTED SYSTEM

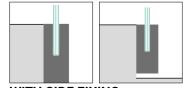
New range with resistance from 200 kg/m (tested at 300 kg/m) up to 500 kg/m (tested at 750 kg/m). 137 lb/ft (tested at 206 lb/ft) up to 343 lb/ft (tested at 514 lb/ft).

THE SYSTEM GUARANTEES THE USUAL SAFETY LEVEL.

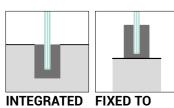
Types of FIXING



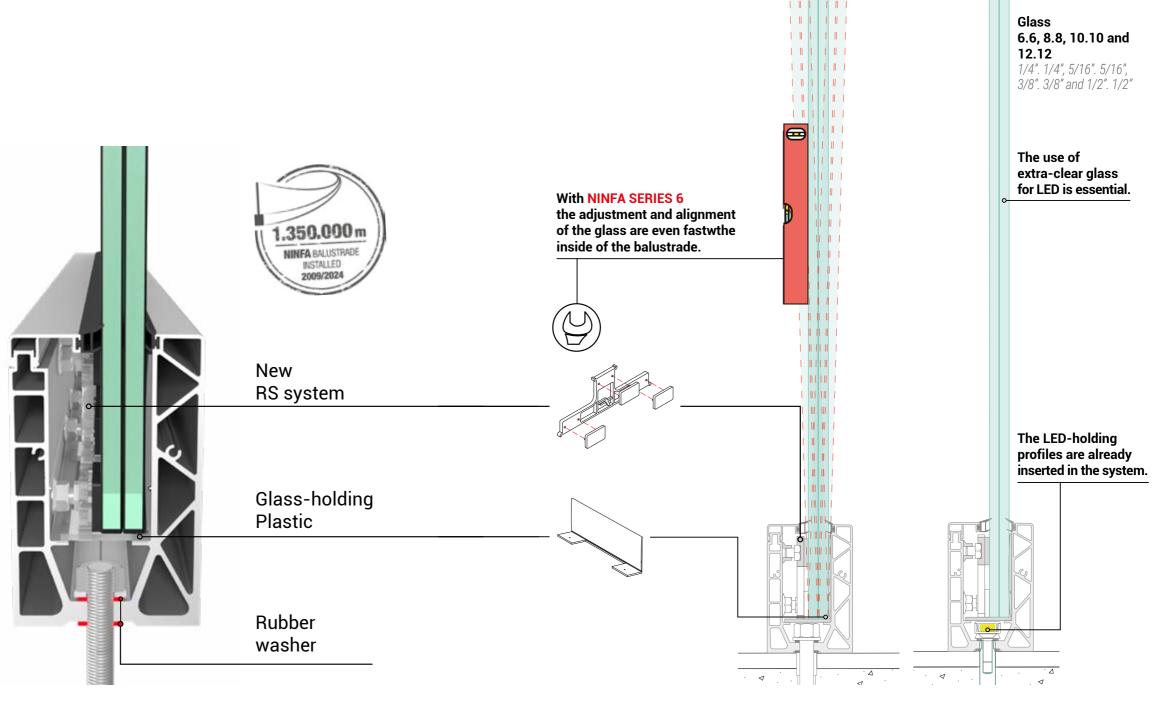
ON THE FLOOR



WITH SIDE FIXING







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THE IDEAL TECHNOLOGICAL PACKAGE

- 1 NINFA system
- 2 Safety glass

Only with the NINFA system and the appropriate safety glass it is possible to obtain **surprising performances** in total compliance with the regulations.

The knowledge of the materials used such as aluminium and glass combined with their technological capabilities has allowed Faraone to

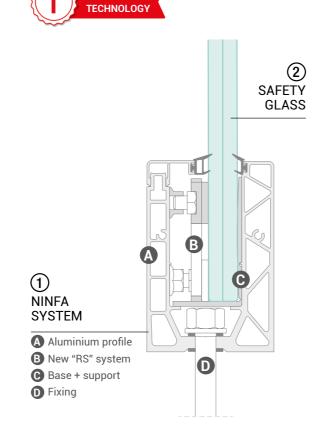
This is possible thanks to the Technology Package consisting of the NINFA System (profile, RS, base, fixing) and the appropriate Structural Glass.

develop increasingly performing systems.

Why are they both essential? The NINFA System concerns Faraone's know-how: from resistance performance (based on the intended use and the glass used) to installation needs and ease of assembly.

The Structural Glass, on the other hand, concerns the production technique of the glass sheets, the hardening and processing methods that make this material, basically fragile, into a resistant and performing one.

The performance of a glass balustrade depends mainly on the number of sheets that make up the balustrade, their thickness and the type of interlayer that is inserted inside.



ADVANCED



1

NINFA SYSTEM



The advantages of the NINFA system



TESTING IN COMPLIANCE WITH REGULATIONS

We calculate and test the resistance levels of Ninfa balustrades in compliancewith current regulatory standards.



INTENDED USE

Each NINFA glass balustrade is designed for specific uses.



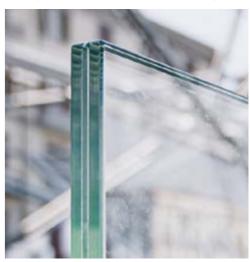
SPEED OF ASSEMBLY

The assembly and plumbing of the glass are faster and easier.



SAFETY GLASS

(INDICATED BY FARAONE)



Rely on the indications by Faraone for the glass



TEMPERING AND HARDENING PROCESSES

One of the main steps in glass processing to increase its resistance by 4 times.



CORRECT STRATIFICATION

In addition to the thickness of the glass panes, it is important to insert the Tempered-Hardened glass on the outside and the Tempered glass on the inside.



TYPES OF INTERLAYER

It is an essential element that determines the behaviour of the glass even after breaking. Use "hard" plastic interlayer for superior resistance.



GLASS HEIGHT

Thanks to the data of our tests, in addition to the types of glass, we are able to indicate the maximum height of each glass relative to the intended

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OUR STRENGTH: THE QUICK ASSEMBLY



4 simple steps, and that's it!

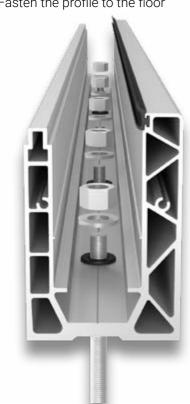
STEP01

> PREPARATION

- a) Position the pre-drilled bar (with external gasket already inserted) to use as a template
- b) Mark the holes and then drill the
- c) Thoroughly clean the holes
- d) Apply the resin
- e) Insert the rods

> START OF ASSEMBLY

a) Fasten the profile to the floor



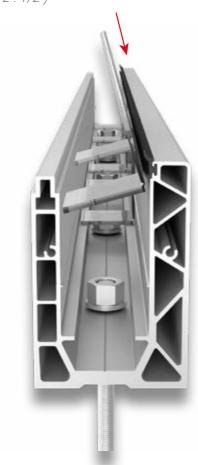
YOU ONLY HAVE TO

Place in sequence: first rubber washer, aluminium profile, second rubber washer, plain washer, nut M12

STEP02

> GLASS HOUSING

a) Insert the plastic for glass housing inside the profile b) Prepare the RS system by inserting the correct spacers according to the glass to be inserted (6.6,8.8,10.10,12.12) (1/4".1/4", 5/16". 5/16",3/8". 3/8", 1/2". 1/2")



YOU ONLY HAVE TO Distribute the plastic for glass support (4 for each meter)

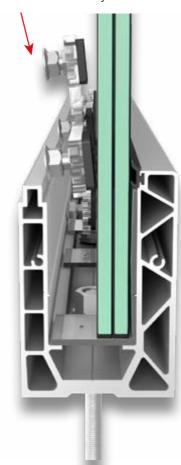
STEP03

> POSITIONING OF THE GLASS

a) Insert the glass in an inwards inclined position

> INSERT THE RS SYSTEM

- a) Insert the adjusters (RS system)
- b) Adjust the inclination
- c) Tighten both rows of adjusters



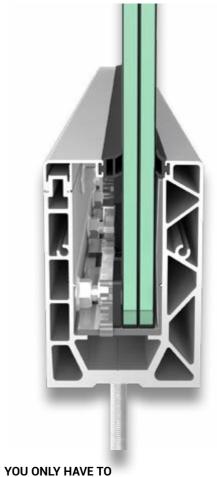
YOU ONLY HAVE TO

Insert 4 adjusters (RS system) for each meter. Make sure you correctly plumb the glass, having spaced the slabs by 2 cm.

STEP04

> FINAL PHASE

a) Insert the upper snap-fit cladding b) Fasten the side caps with the supplied screws



Make sure you have performed a professional installation.

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ALUMINIUM FINISHES

Customize your balustrade

Exemplary reproduction of the available finishes



Customize your profile with trendy finishes for INDOOR and OUTDOOR use, or choose a colour on request among more than 2,000 RAL colours.



Anodized finishes

BASE



ANODIZED (20 microns)

RAL finishes and Special coatings

BASE

RAL 9010 MATT

ON REQUEST



2000 RAL colours



GLASS FINISHES

Customize your glass (Glass not supplied by Faraone)

Not just transparent glass

Follow our directions and get the effect you have in mind.

- Choose to customize your glass sheets Customize the interlayer with special with opaque colours or particular shades such as the cloud effect.
- Use screen printing or etching to give a special touch to your environment.
- fabrics or print the graphics or effect you prefer directly on the glass.



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OPTIONAL

Exemplary reproduction of the available finishes

Handrail







Anodized and Coated Finishes

BASE



SILVER ANODIZED (raw on request)



WHITE **RAL 9010**



BLACK RAL 9005 matt

Other colours

ON REQUEST



2000 RAL colours

LED EFFECTS

Edge effect:

Led Pack

(Not supplied by Faraone)

TYPES OF LIGHT









Diffused light effect: • on glass with surface

treated for LEDs

Get the most of the light

and the effect you want:

• on extra-clear glass

NOT supplied by Faraone



NINFA with multicolor LED. Hotel Riccione.

DISCOVER THE NEW LED EFFECTS FROM PAGES 80 TO 86

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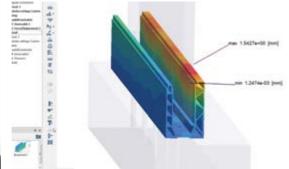
NINFA THE 6th SERIES AND ITS POTENTIAL

The secret of the new glass balustrades is in the details.



Sabatino FaraoneFounder and President of the Faraone Company with over 50 years of experience in the sector.

THE IMPORTANCE OF THE ALUMINIUM SHOCK ABSORBER PROFILE



What is important to know is that you have to choose the right materials for the uses you will have to make.

This is true for aluminium, too: there are different alloys and different hardness levels that determine its characteristics depending on the use; consequently, this aspect also applies to the balustrades. There is a need for study, continuous experimentation of knowledge of the materials and suppliers who follow you along this path.

Ninfa series 6 was born thanks to the knowledge of the behaviour of the materials, thanks to which it was possible to obtain a system that has the right stiffness and, at the same time, the right elasticity to obtain the right shockabsorbing effect; that is, the ability to unload on the profile the loads that are applied to the glass.

It is easy to design a "heavy profile" (rigid and resistant) that is not optimized for glass.

It is difficult, very difficult, to create a "shockabsorbing profile" (elastic and resistant) that is designed to collaborate with the glass and to obtain a highly performing and optimized system.

In the following pages you will discover the surprising results achieved by Ninfa series 6.

THE FUNDAMENTAL ROLE OF ACCESSORIES:



THE RS SYSTEM

Immediately after the profile, we find the heart of the new NINFA technology: the RS system of internal accessories.

Having a profile with exceptional performance is not enough, if it is not accompanied by a system of accessories that are equally performing.

The new RS system, an unprecedented glass pressure and adjustment system, allows in a few quick steps to adjust the plumb and tighten the glass in order to obtain a complete collaborating system.

Furthermore, the glass thickness change system is also new; it is done simply by replacing the presser plugs with a simple click.

The choice of the material is also important: the RS system is made entirely of transparent moulded polycarbonate, with high compressive strength and at temperatures from -40 up to +95 C°. All the bolts of the adjusters are made of AISI 304 stainless steel.

THE GASKETS: ADVANTAGES OF THE NEW DESIGN AND COMPOUND

Have you ever thought of gaskets as an impor



tant element for a glass balustrade? They are not needed only to avoid contact of the glass with aluminium, but also to limit the passage of water. A simple gasket that acts only as an exterior appearance is not enough, it must have a real role of a protagonist.

The compound must be designed in such a way as not to expand or shrink, and to maintain its colour over time despite its exposure to different weather conditions and atmospheric agents.

On the technical side, it must be easy to insert and must adhere to the glass in the various conditions of inclination.

The Ninfa 6 series has left nothing to chance, thanks to the gasket made with a special compound that allows it not to shrink over time, not to yellow and always remain under pressure on the glass.

FIXING: CHEMICAL OR MECHANICAL?



This is the question that designers and installers

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ask us most often: which fastening do you recommend?

Fastening is a fundamental element in any application. Whether it's a window, an awning, a canopy, each product must have its fixing suitable to hold that weight under certain conditions and on certain supports.

I can assure you that the fixing for the balustrades is of fundamental importance.

Since 2008, with the first Ninfa systems, fixing to the floor has always been an element of primary importance, so much so that in the design of the various Ninfa systems over the years, fixing is the first element that has always been taken into consideration.

The fixing system indicated by Faraone is the only one that is able to guarantee the perfect tightness, which is verified by calculation and carried out in several tests performed both in our test laboratory and at the certification bod-

- a threaded bar certified according to the standard
- a corresponding CERTIFIED chemical anchor recommended by the manufacturer, not just any chemical resin!
- do not use polyester resins, they are not suitable for the required loads.

Is the mechanical fixing not up to standard? Let me be clear, even the mechanical fixing offers the necessary guarantees if you are sure that you have a "guaranteed" concrete, better if vibrated; however, on the construction site you do not always have to deal with an ideal con-

This is why fixing with a chemical resin offers all the guarantee that is needed for those who do not want to have problems after the installation.

WATER DISCHARGES ON THE PROFILE



The first question that is asked by the designer and the customer is: where does the water go? Water has always been a hassle for all those who have to do with outdoor balustrades. You never know where it comes from. Even when everything is planned and designed well, it can sometimes infiltrate into a micro-crack and become a problem.

As for the balustrade, the utmost attention must be paid to:

- the gasket along the glass
- the gasket between glass and glass
- the fixing
- the water that stagnates near the bar due to the inclination and the non-prediction of water discharges.

Paying attention to all these points, with an excellent installation, infiltrations are avoided. However, we wanted to go further with two important technical measures:

- the use of epoxy resin to limit water ingress
- external discharges on the whole new Ninfa

This prevents water from infiltrating into the fixing points and any excess water from escaping from the discharges (just like windows).

TESTS

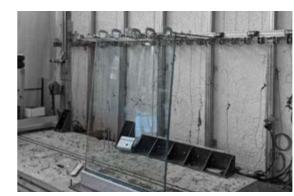
(1) Faraone laboratory

(2) Politecnico di Milano

laboratory testing. The Ninfa Series 6 was also subjected to numerous tests at the Faraone co di Milano. LAB during its development process.

The creation of every product goes through After passing the tests at the Faraone LAB, the certifications are also obtained at the Politecni-

faraone[®]LAB









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MAINTENANCE

to 10 years.

The more you live in areas affected by atmo- are: spheric agents, such as near the sea, the more maintenance you will need to do.

suitable anodizing or painting) you can rest assured for many years. These materials, in 3/8". 3/8") + interlayer; fact, are widely used in architecture to last over - Gaskets; time.

In general, classic iron or masonry balustrades This type of balustrade consists of an alumirequire continuous routine and extraordinary nium profile painted according to QUALICOAT maintenance, with repainting needed every 6 and SEASIDE system and anodized according

The main components of a balustrade system

- Painted or anodized aluminium profile (supporting structure);
- Floor fixing bolts;
- With an aluminium and glass balustrade (with Laminated tempered/tempered or tempered/ hardened glass 8.8 or 10.10 (5/16". 5/16" or



Maintenance with specific antirust treatments for common metal balustrades is recommended, to prevent them from being corroded by time, losing beauty and safety.





WE ARE GREEN

Faraone chooses sustainable and recyclable raw materials for its products and their packaging.

The management of its own particular waste is accomplished according to the italian legislation.



GLASS. Glass is the sustainable material par excellence. Glass can be reused an unlimited number of times, while keeping its properties intact. In addition, at the production level, re-melting the waste material implies a lower waste of energy and raw materials. It is also an energetically advantageous material for its applications in architecture and design. (Such as, for example, the application of glass with photovoltaic cells for the balustrades).



ALUMINIUM. Aluminium is today one of the most common materials in the construction sector, both because it is optimal for countless uses and, from an environmental point of view, for its quality, thanks also to the new carbon-free production methods.

To date, aluminium is one of the best choices in terms of sustainability, as it is a 100% recyclable material and it allows to significantly reduce energy consumption during production, while maintaining its qualitative performance intact.



STEEL. Steel is thought to be the most recycled material in the world, of which Italy holds the record in Europe with about 80%. High strength and durability make it an essential material in the construction world, as well as beneficial for the environment and the economy.



PACKAGING. All our packaging is made with recyclable materials, starting from the cardboard used to make the product packaging up to the plastic used for the pallets.

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INTENDED USE

For new builds or refurbishments

01RESIDENTIAL

- private house indoors / outdoors

02CONDOMINIUMS

- balconies
- terraces





05HOSPITALITY

- hotels
- restaurants
- chalets
- poolside fencing



06INFRASTRUCTURE

- airports
- train stations



03FENCES

- residential
- public

04WORKING ENVIRONMENTS

- offices
- conference rooms





07HISTORICAL BUILDINGS

- Churches and places of worship
- redevelopment of historic centres

08SHOPPING CENTRES

- halls
- external terraces





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INTENDED USE

For new builds or refurbishments

09HEALTHCARE FACILITIES

- hospitalsprivate clinics
- socio-health structures
- nursing homes



10SCHOOL BUILDINGS

- schools
- campus and university



11SPORTS FACILITIES

- stadiums
- sports halls
- swimming pools
- racetracks





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The glass balustrade **NINFA 106** was created to increase the safety level of balconies, terraces, stairs, galleries and poolside fencing. It's ideal for private and public spaces.

The profile accommodates both 8.8 and 10.10 (5/16" .5/16" and 3/8".3/8") glass thanks to the new RS system for adjusting and tightening the glass.

Optional: integrable LED and handrail.

Finishes: Standard and on request customizations.



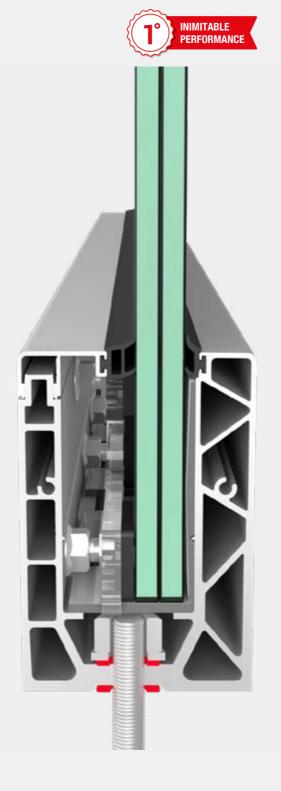
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For uncrowded environments: Tested to 300 kg/m 206 lb/ft Dynamic impact resistance up to 350 J 258 ft-lb



For very crowded environments: Tested to 450 kg/m 302 lb/ft Dynamic impact resistance up to 600 J 440 ft-lb

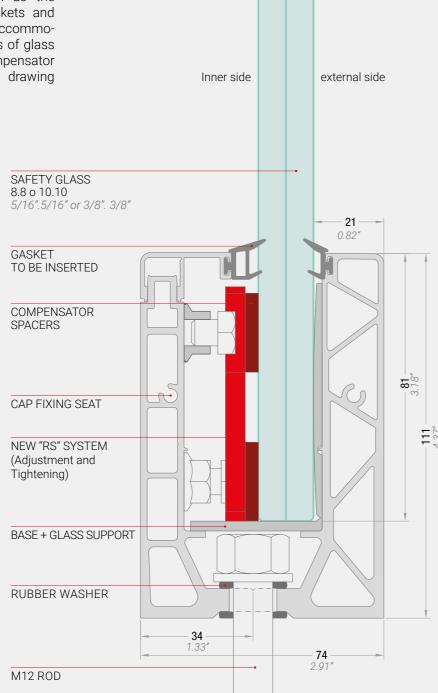
Ninfa 106 H (Home) Ninfa 106 P (Professional)





This page shows the complete list of the main components.

Some accessories, such as the adjusting block, the gaskets and the cladding can vary to accommodate different thicknesses of glass panels, such as the "compensator spacers" shown in the drawing alongside.



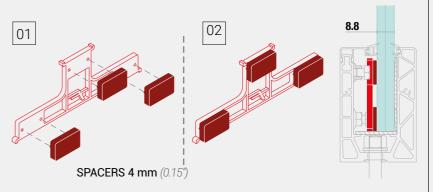
scale 1:1

GLASS THICKNESS VARIATIONS:

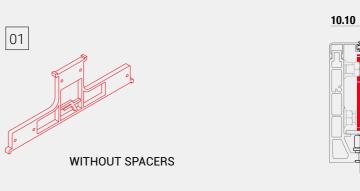
The thickness of the glass can serted in the "RS System". vary from a minimum of 8.8 On the left, the two variants with (5/16".5/16") to a maximum of glass thickness change (highlight-10.10 (3/8".3/8") using the approed in red). priate compensator thickness in-

MAIN **APPLICATIONS**

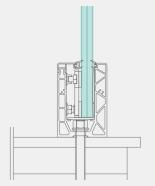
ASSEMBLY OF THE RS SYSTEM - GLASS 8.8 (5/16".5/16")



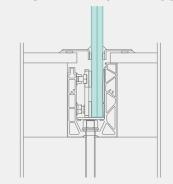
ASSEMBLY OF THE RS SYSTEM - GLASS 10.10 (3/8".3/8")



ON THE FLOOR



INTEGRATED INTO THE FLOOR 1



Integrated into the floor 1 recommended for indoor use only

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DESIGN: R&D FARAONE - PATENTED SYSTEM

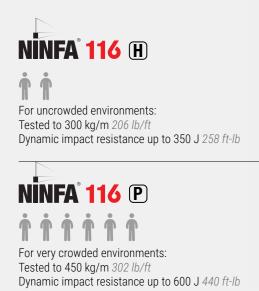


The glass balustrade **NINFA 116** was created to increase the safety level of balconies, terraces, stairs, galleries and poolside fencing. It's ideal for private and public spaces.

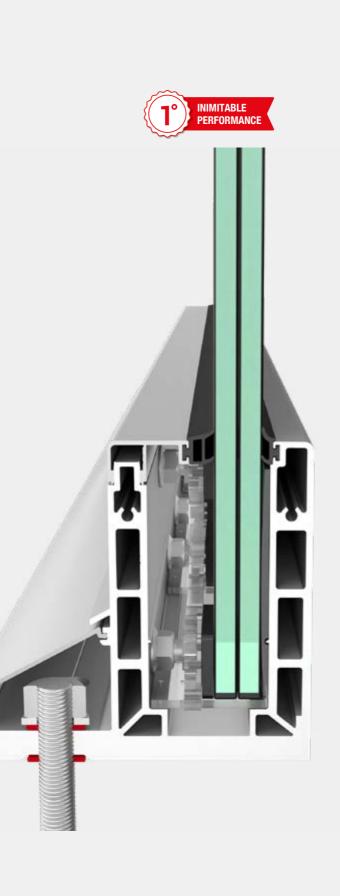
The profile accommodates both 8.8 and 10.10 (5/16".5/16" and 3/8".3/8") glass thanks to the new RS system for adjusting and tightening the glass.

Optional: integrable LED and handrail.

Finishes: Standard and on request customizations.



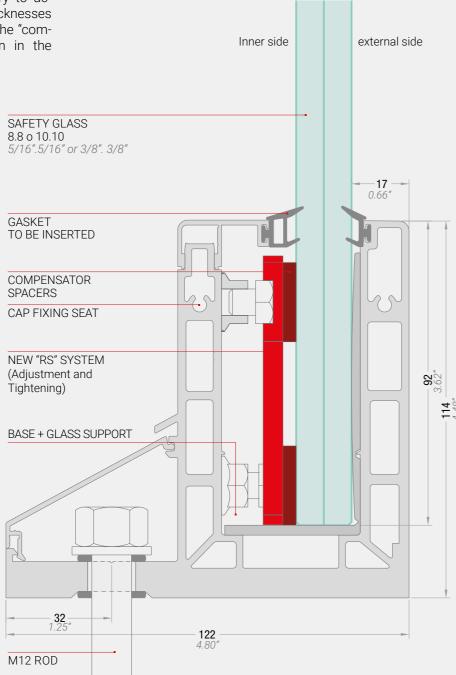
Ninfa 116 H (Home) Ninfa 116 P (Professional)





This page shows the complete list of the main components.

Some accessories, such as the adjusting block, the gaskets and the cladding can vary to accommodate different thicknesses of glass panels, such as the "compensator spacers" shown in the drawing alongside.



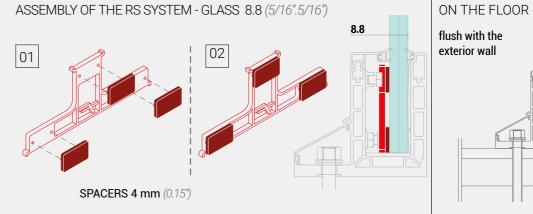
scale 1:1

GLASS THICKNESS VARIATIONS:

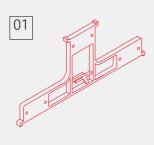
The thickness of the glass can serted in the "RS System". vary from a minimum of 8.8 On the left, the two variants with (5/16".5/16") to a maximum of glass thickness change (highlight-10.10 (3/8".3/8") using the approed in red). priate compensator thickness in-

10.10

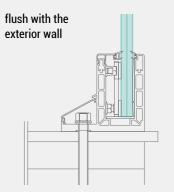
MAIN **APPLICATIONS**



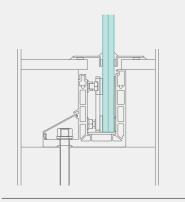




WITHOUT SPACERS



INTEGRATED INTO THE FLOOR 1



solution indicated for external use

42 NINFA 116 faraone.it 43





The **NINFA 56** profile is the smallest of the series, in height and width (It's recommended for private places) can be used in the following ways:

1) on a low reinforced concrete wall, **the glass can have a variable height up to a maximum of 90 cm.** (example 20 cm (11" 13/16) wall + 90 cm (2' 7" 1/2) glass = H 110 cm (3' 7" 5/16), height now required in general).

The use of the anti-climbing cladding for children is essential.

2) It can be mounted on the floor with the normal cladding and with the 8.8 (5/16".5/16") glass 100 cm (3'3"3/8) high only if there is no fall into the void, or with a fall height of less than 100 cm from the floor level. (example: internal partition, ground floor, or similar).

The profile accommodates both 6.6 and 8.8 (1/4".1/4" and 5/16".5/16") glass thanks to the new **RS system** for adjusting and tightening the glass

Optional: integrable LED and handrail.

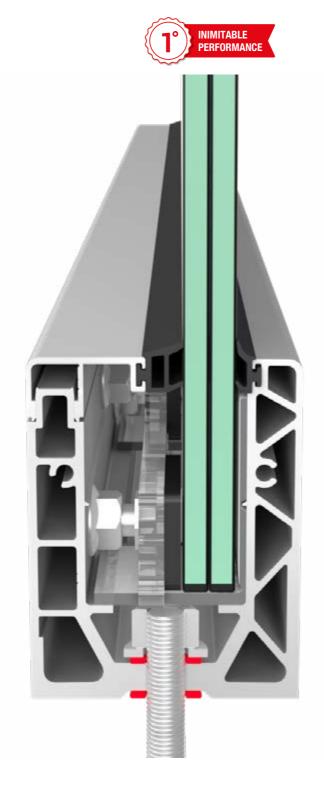
Finishes: Standard and on request customizations.





For uncrowded environments: Tested to 300 kg/m 206 lb/ft Dynamic impact resistance up to 350 J 258 ft-lb

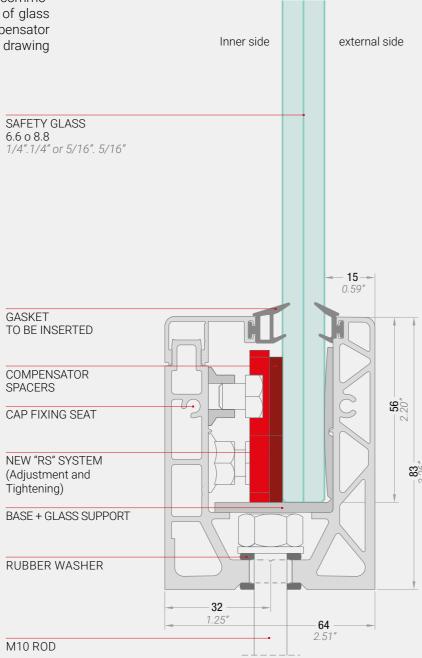
Ninfa 56 H (Home)





This page shows the complete list of the main components.

Some accessories, such as the adjusting block, the gaskets and the cladding can vary to accommodate different thicknesses of glass panels, such as the "compensator spacers" shown in the drawing alongside.



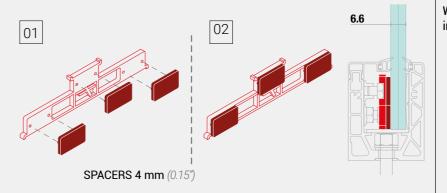
scale 1:1

GLASS THICKNESS VARIATIONS:

The thickness of the glass can ed in the "RS System". vary from a minimum of 6.6 On the left, the two variants with (1/4".1/4") to a maximum of 8.8 glass thickness change (highlight-(5/16".5/16") using the appropried in red). ate compensator thickness insert-

MAIN **APPLICATIONS**

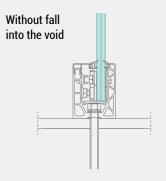
ASSEMBLY OF THE RS SYSTEM - GLASS 6.6 (1/4".1/4")



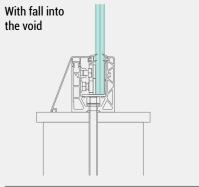
ASSEMBLY OF THE RS SYSTEM - GLASS 8.8 (5/16".5/16")



ON THE FLOOR



ON WALL



48 NINFA 56 faraone.it 49



DESIGN: R&D FARAONE - PATENTED SYSTEM



The **NINFA 176** glass balustrade is the technology for internal side mounting, ideal for private and public places thanks to its performance.

NINFA 176, like the whole new series, meet the calculation verifications with engineering software and laboratory test simultaneously (static load test and dynamic impact test), required by the italian regulations.

The profile accommodates 8.8, 10.10 and 12.12 (5/16".5/16", 3/8".3/8" and 1/2".1/2") glass thanks to the new **RS system** for adjusting and tightening the glass.

Optional: integrable LED and handrail.

Finishes: Standard and on request customizations.



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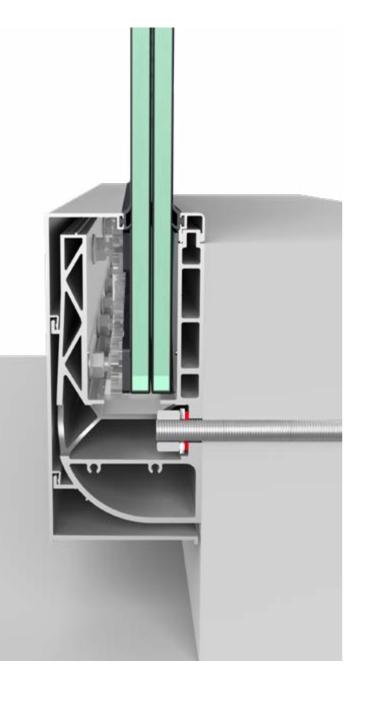
For uncrowded environments: Tested to 300 kg/m 206 lb/ft Dynamic impact resistance up to 350 J 258 ft-lb



For very crowded environments: Tested to 450 kg/m 302 lb/ft Dynamic impact resistance up to 600 J 440 ft-lb

Ninfa 176 H (Home) Ninfa 176 P (Professional)



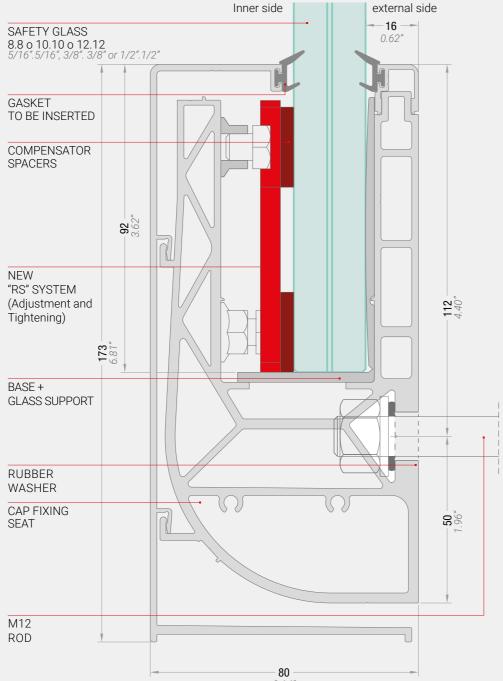




This page shows the complete list of the main components.

Some accessories, such as the adjusting block, the gaskets and the cladding can vary to accommodate different thicknesses of glass panels, such as the "compensator spacers" shown in the drawing alongside.

scale 1:1

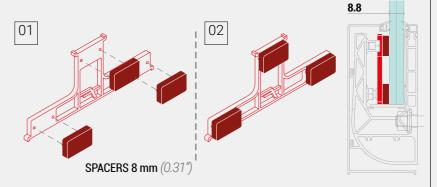


GLASS THICKNESS VARIATIONS:

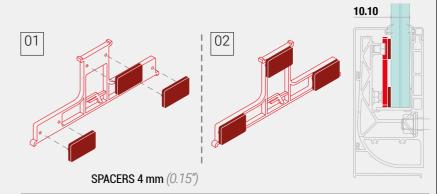
The thickness of the glass can serted in the "RS System". vary from a minimum of 8.8 On the left, the two variants with (5/16".5/16") to a maximum of glass thickness change (highlight-12.12 (1/2".1/2") using the approed in red). priate compensator thickness in-

MAIN **APPLICATIONS**

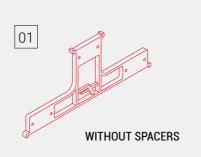


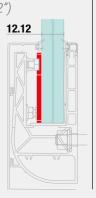


ASSEMBLY OF THE RS SYSTEM - GLASS 10.10 (3/8".3/8")

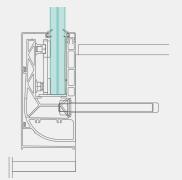


ASSEMBLY OF THE RS SYSTEM - GLASS 12.12 (1/2".1/2")

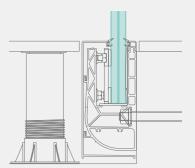




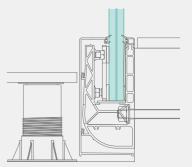
INTERNAL SIDE



INTEGRATED INTO THE FLOOR 1



INTEGRATED INTO THE FLOOR 2



54 55 **NINFA 176** faraone.it





The **NINFA 186** glass balustrade is the technology for external side mounting, ideal for private and public places thanks to its performance.

NINFA 186, like the whole new series, meet the calculation verifications with engineering software and laboratory test simultaneously (static load test and dynamic impact test), required by the italian regulations.

The profile accommodates 8.8,10.10 and 12.12 (5/16".5/16", 3/8".3/8" and 1/2".1/2") glass thanks to the new **RS system** for adjusting and tightening the glass.

Optional: integrable LED and handrail.

Finishes: Standard and on request customizations.



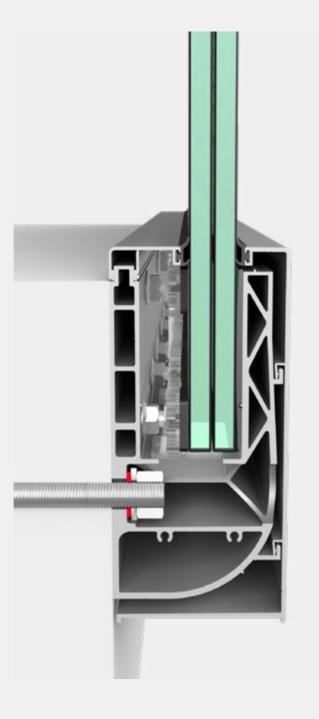
For uncrowded environments: Tested to 300 kg/m 206 lb/ft Dynamic impact resistance up to 350 J 258 ft-lb

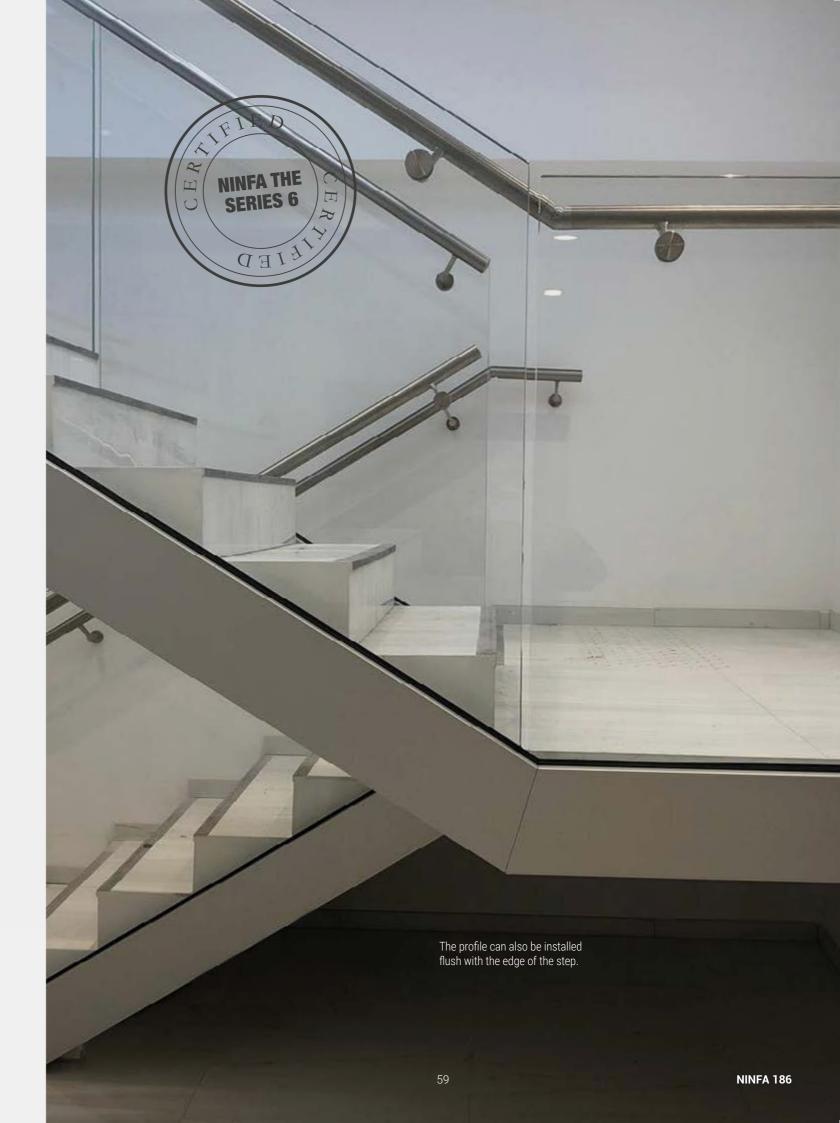


For very crowded environments: Tested to 450 kg/m 302 lb/ft Dynamic impact resistance up to 600 J 440 ft-lb

Ninfa 186 H (Home) Ninfa 186 P (Professional)



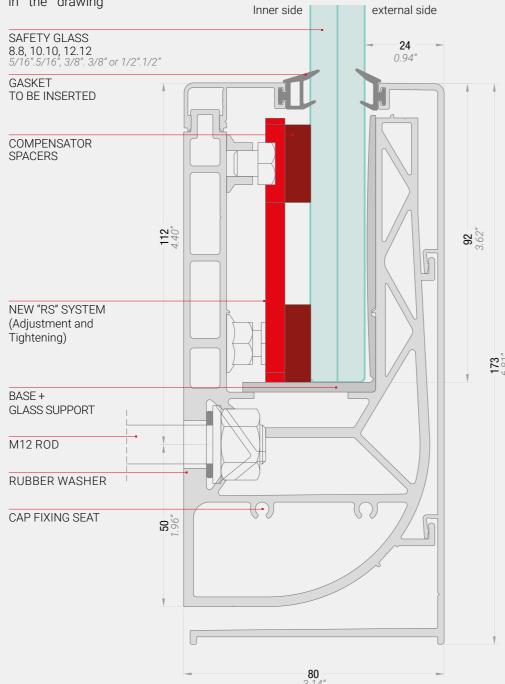




This page shows the complete list of the main components.

Some accessories, such as the adjusting block, the gaskets and the cladding can vary to accommodate different thicknesses of glass panels, such as the "compensator spacers" shown in the drawing alongside.

scale 1:1



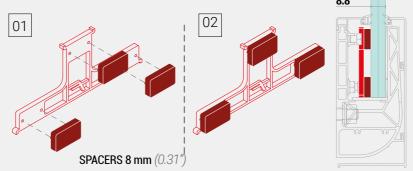
GLASS THICKNESS VARIATIONS:

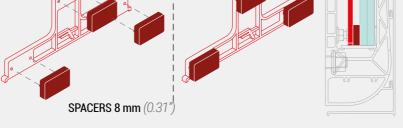
The thickness of the glass can serted in the "RS System". vary from a minimum of 8.8 On the left, the two variants with (5/16".5/16") to a maximum of glass thickness change (highlight-12.12 (1/2".1/2") using the approed in red). priate compensator thickness in-

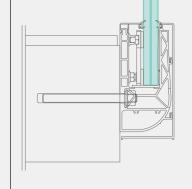
MAIN **APPLICATIONS**

EXTERNAL SIDE

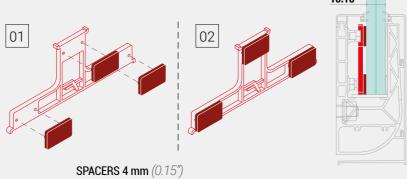


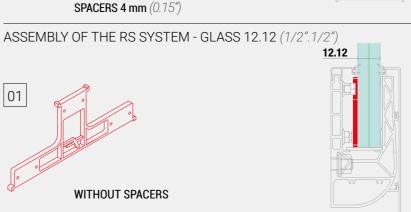






ASSEMBLY OF THE RS SYSTEM - GLASS 10.10 (3/8".3/8")







60 NINFA 186 faraone.it 61



DESIGN: R&D FARAONE - PATENTED SYSTEM



The **NINFA 6** glass balustrade represents the new technology of the Faraone company with very high performance levels. It's ideal for public and crowded places, for sports stadium stands, common spaces in infrastructures, cinemas, theatres, hotels.

NINFA 6, like the whole new series, meet the calculation verifications with engineering software and laboratory test simultaneously (static load test and dynamic impact test), required by the italian regulations. The profile accommodates both 10.10 and 12.12 (3/8".3/8" and 1/2".1/2") glass thanks to the new **RS system** for adjusting and tightening the glass.

Optional: integrable LED and handrail.

Finishes: Standard and on request customizations.



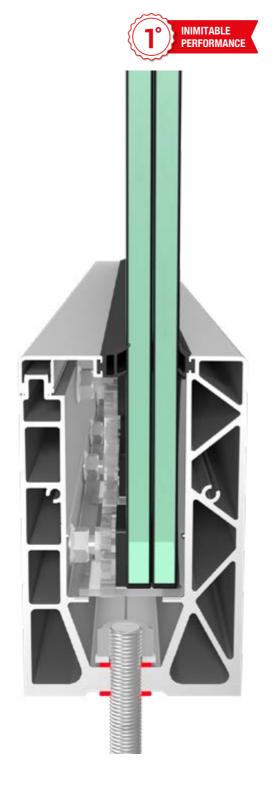
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For uncrowded environments: Tested to 300 kg/m 206 lb/ft Dynamic impact resistance up to 350 J 258 ft-lb



For very crowded environments: Tested to 450 kg/m 302 lb/ft Dynamic impact resistance up to 600 J 440 ft-lb

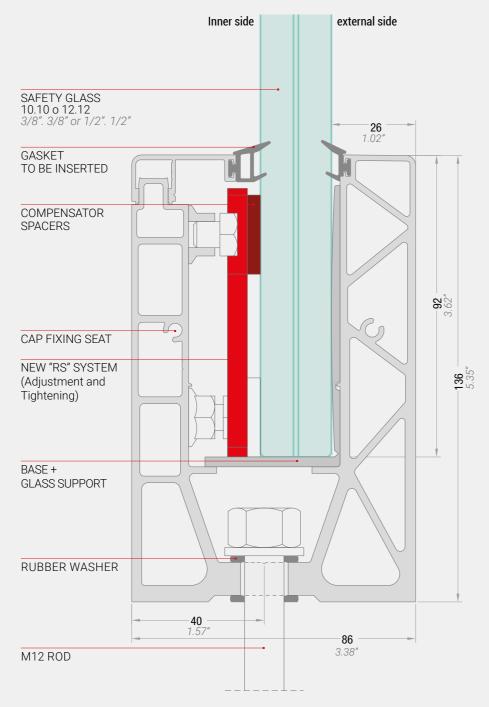
Ninfa 6 H (Home) Ninfa 6 P (Professional)





This page shows the complete list of the main components.

Some accessories, such as the adjusting block, the gaskets and the cladding can vary to accommodate different thicknesses of glass panels, such as the "compensator spacers" shown in the drawing alongside.



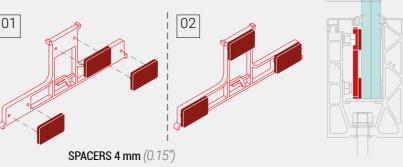
GLASS THICKNESS VARIATIONS:

The thickness of the glass can in the "RS System". vary from a minimum of 10.10 On the left, the two variants (3/8".3/8") to a maximum of 12.12 with glass thickness change (1/2".1/2") using the appropriate (highlighted in red). compensator thickness inserted

MAIN **APPLICATIONS**

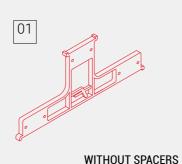
ON THE FLOOR



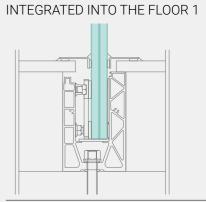


10.10

ASSEMBLY OF THE RS SYSTEM - GLASS 12.12 (1/2".1/2")







Integrated into the floor 1 recommended for indoor use only

scale 1:1

66 67 NINFA 6 faraone.it



DESIGN: R&D FARAONE - PATENTED SYSTEM



The **NINFA 50-N** glass balustrade is the new technology from Faraone, ideal for residential and wall installations.

It passes all static load tests required by regulations.

Glass thickness: single pane thickness 8.8 (5/16".5/16").

Glass height: max. 600 mm (23.62 in) from wall

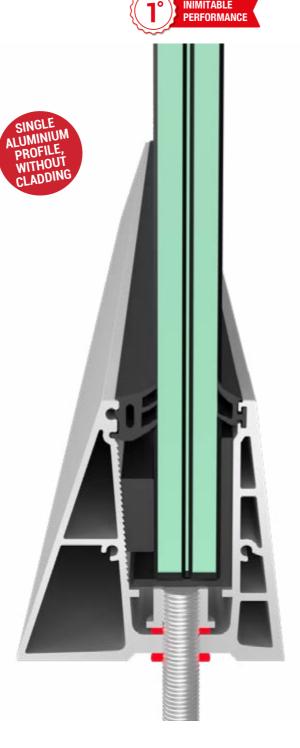
Optional: integrable LED and handrail.

Finishes: Standard and on request customizations.





For uncrowded environments: Tested to 300 kg/m 206 lb/ft



Ninfa 50-N H (Home)

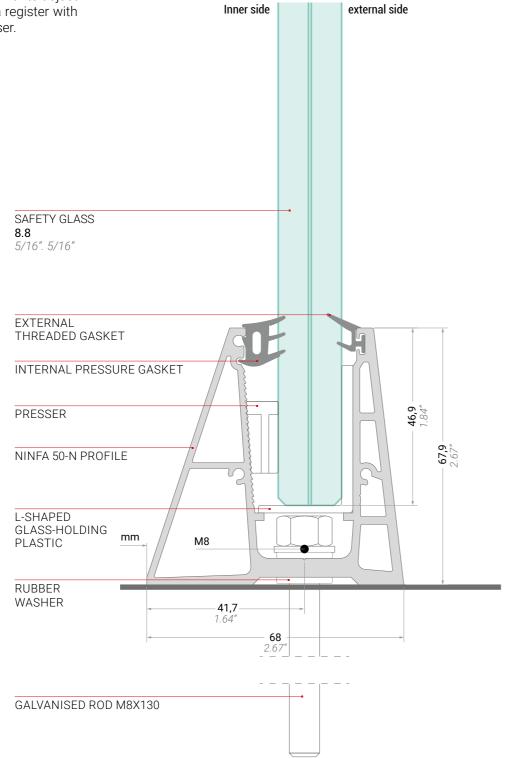


TECHNICAL DETAILS

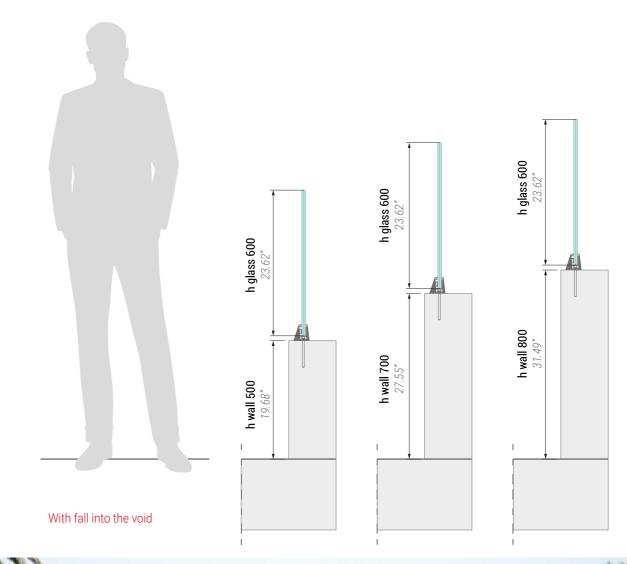
This datasheet has the complete list of main components.

Unlike the other profiles in the Ninfa 6 series, the Ninfa 50-N profile does not use the RS system for to adjust the glass, but rather a register with a polycarbonate presser.

scale 1:1



TYPES OF INSTALLATION





faraone.it 72 NINFA 50 N



DESIGN: R&D FARAONE - PATENTED SYSTEM



Sport is pure fun. People go to stadiums and sports centers to admire the champions, and this balustrade is up to the greatest sporting performances.

Maximum safety for highly crowded places.

Tested in the laboratory up to a load of 1000 Kg/m (685 lb/ft).

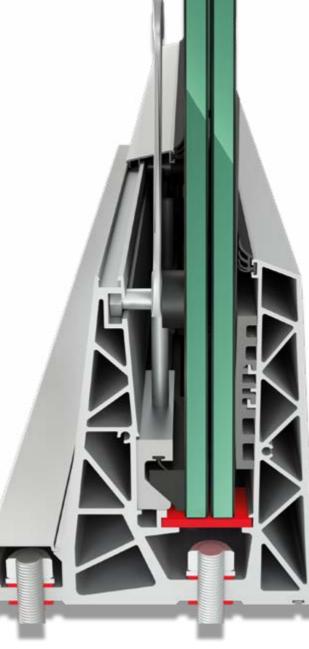
3 tempered glass panels with 8+0.89+8+0.89/+8 or 12+12+1.52 (5/16"+5/16"+5/16" or 1/2"+1/2") for the 300 Kg/m and 500 Kg/m (206 lb/ft and 336 lb/ft) class.

Optional: integrable LED and handrail.

Finishes: Standard and on request customizations.

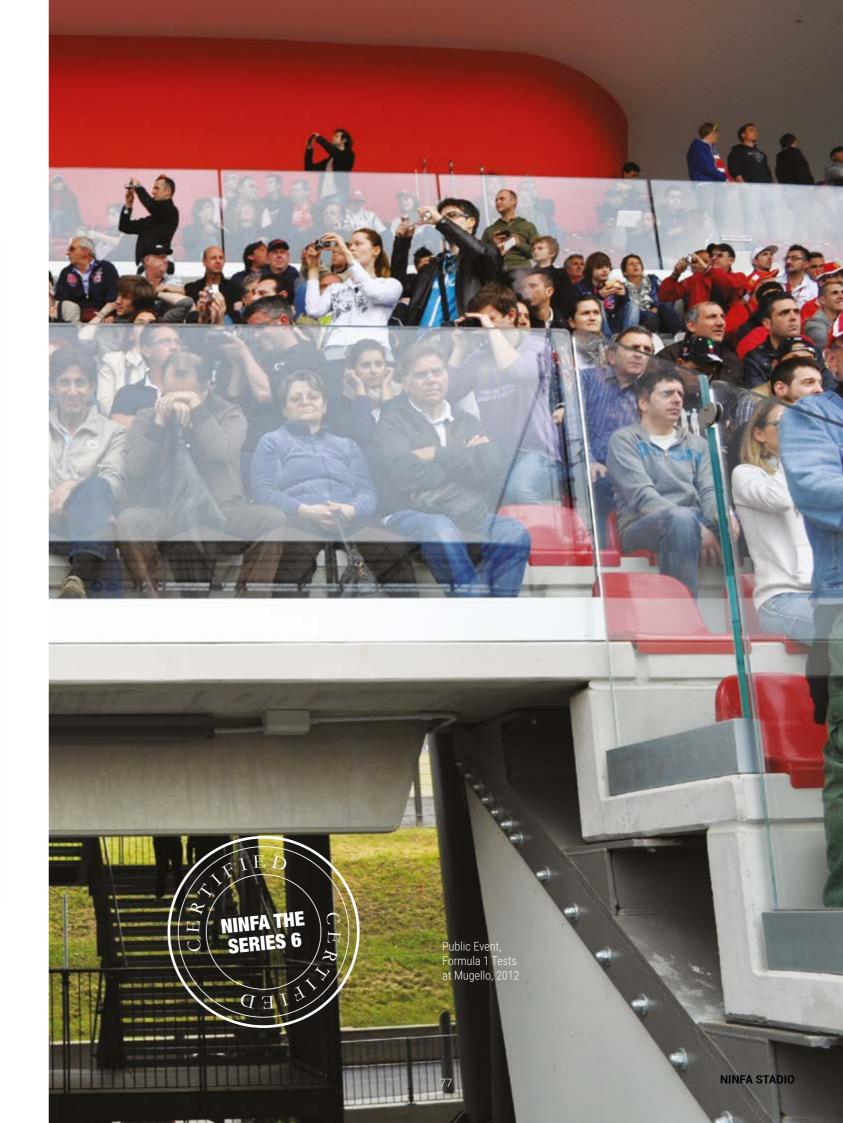


For very crowded environments: Tested to 450 kg/m 302 lb/ft Dynamic impact resistance up to 600 J 440 ft-lb

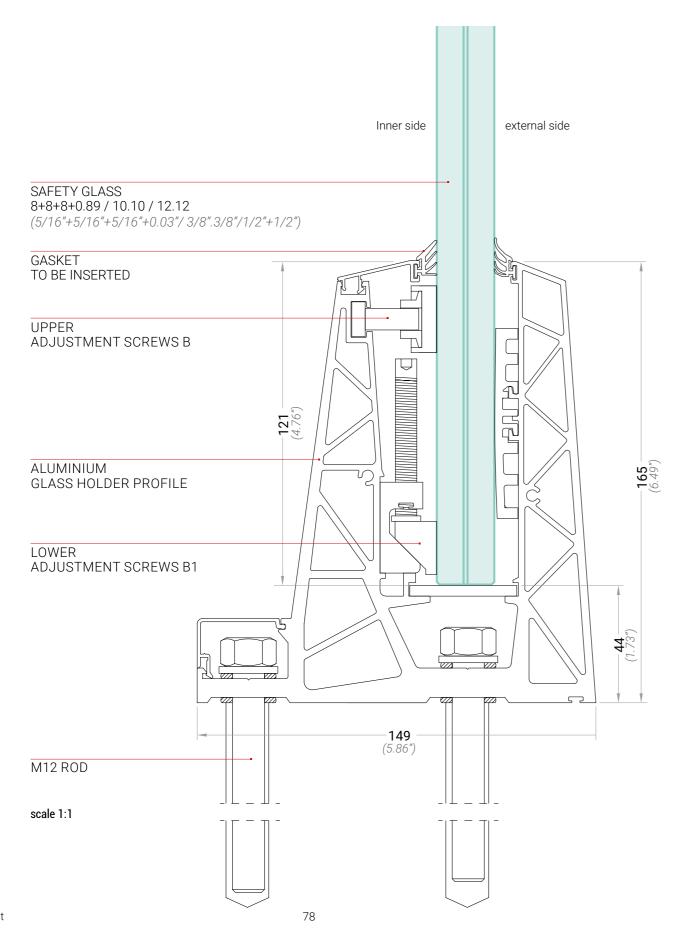


INIMITABLE PERFORMANCE

Ninfa STADIO P (Professional)

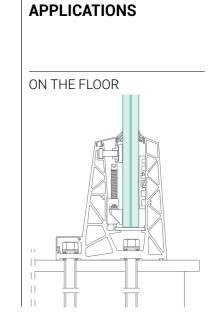


TECHNICAL DETAILS

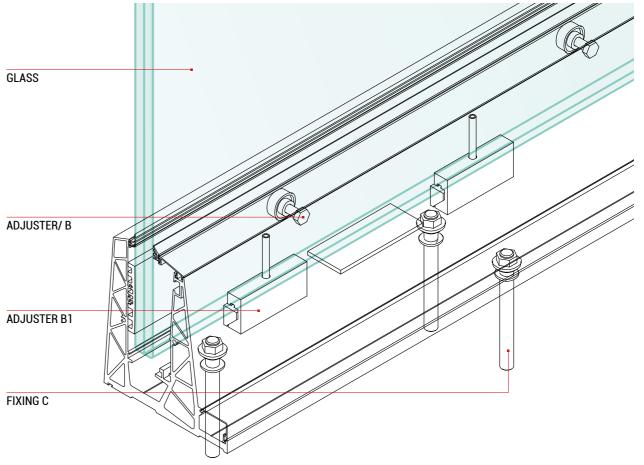


GLASS THICKNESS VARIATIONS:

The thickness of the glass can vary from a minimum of 8.8.8 (5/16".5/16".5/16") to a maximum of 12.12 (1/2".1/2") using the appropriate presser.



MAIN



79 NINFA STADIO

NINFA LED INTERNAL SIDE

LED HOUSING FOR ALUMINIUM PROFILE FIXED ON THE FLOOR

LED profile screwed to the Ninfa aluminum profile. Inclined projection of light downwards to light the way.

(LED not supplied by Faraone)

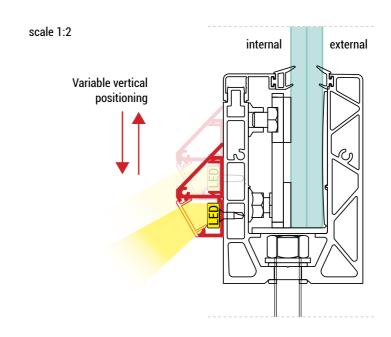
Valid for models: Ninfa 6,106, 56

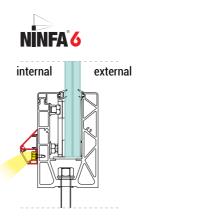


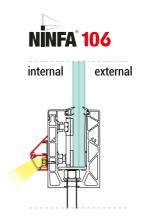


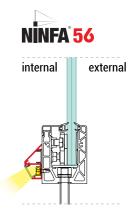
TECHNICAL DETAILS

LED POSITIONING OPTIONS - NEW INTERNAL ACCESSORY









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NINFA LED EXTERNAL SIDE

HOUSING FOR LED ON A EXTERNAL ALUMINIUM PROFILE SIDE

LED profile screwed to the Ninfa aluminum profile. Inclined light projection downward. Ideal for create a lighting effect on the outside of the balcony, making each one clearly visible and producing a unique effect together with the building's lighting.

(LED not supplied by Faraone)

Valid for models: Ninfa 6,106,56,116

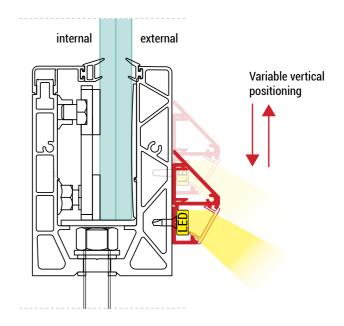


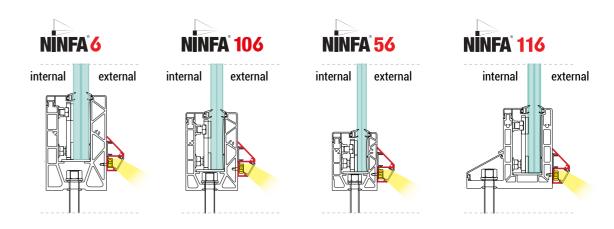


TECHNICAL DETAILS

LED POSITIONING OPTIONS - NEW EXTERNAL ACCESSORY

scale 1:2





faraone.it 82 **NINFA THE SERIES 6**

NINFA LED INTERNAL/EXTERNAL SIDE

HOUSING FOR LED ON A EXTERNAL ALUMINIUM PROFILE SIDE

LED profile screwed to the Ninfa aluminum profile. Inclined projection of light downwards. Dual use internal/external lighting. (LED not supplied by Faraone)

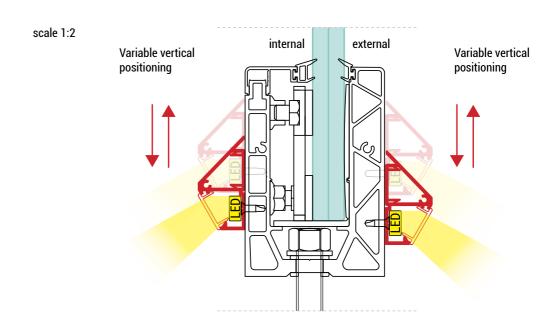
Valido per i modelli: Ninfa 6,106,56

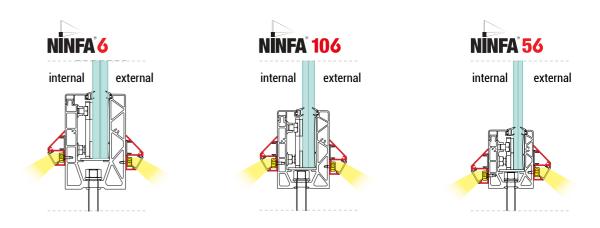




TECHNICAL DETAILS

LED POSITIONING OPTIONS - NEW INTERNAL/EXTERNAL ACCESSORY





faraone.it 84 **NINFA THE SERIES 6**

NINFA LED UNDERNEATH

LED HOUSING FOR ALUMINIUM PROFILE FASCIA MOUNT

LED profile screwed to the bottom of the Ninfa aluminum profile. Inclined projection of light downwards.

The new LED system can also be used with the fascia mount profiles, wich can be oriented as preferred.

(LED not supplied by Faraone)

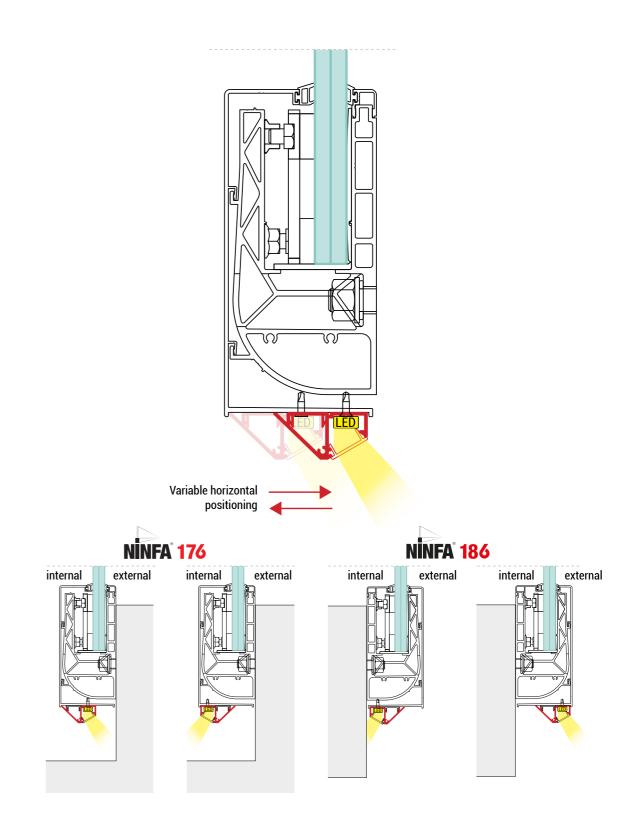
Valid for models: Ninfa 176, 186





TECHNICAL DETAILS

LED POSITIONING OPTIONS - NEW BOTTOM ACCESSORY



faraone.it 86 **NINFA THE SERIES 6**

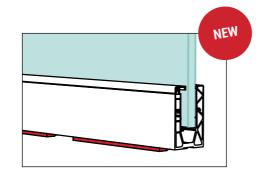
DEDICATED SOLUTIONS FOR WATER DRAINAGE

ALUMINIUM WEDGES

The Ninfa profile remains raised to allow water to run off. Consult the designer and/or site manager to determine the water load on the balcony.

> ADVANTAGES:

- Made to fit perfectly with the Ninfa profileDouble hole for greater stability
- Same finish as aluminium profile
- 20 micron (0.79 mil) anodising, after processing



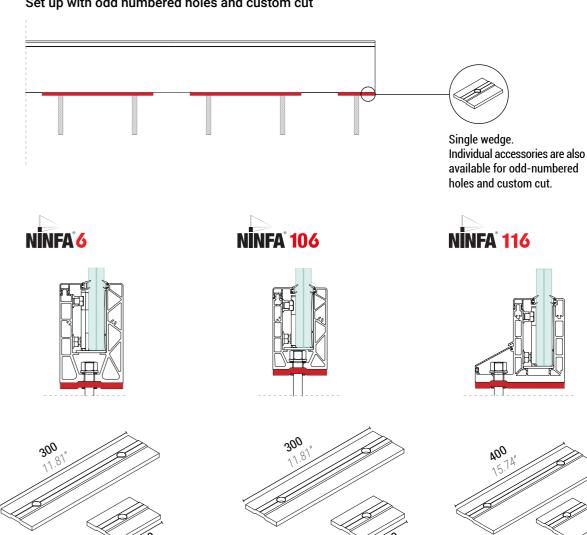


TECHNICAL DETAILS

DISTRIBUTION OF ALUMINIUM WEDGES Standard layout

Double wedge

Set up with odd numbered holes and custom cut



NINFA THE SERIES 6 faraone.it

DEDICATED SOLUTIONS FOR WATER DRAINAGE

TYPES OF PROFILE PROCESSING:

Processing and accessories that allow water to drain away.

A) Profile with through milling

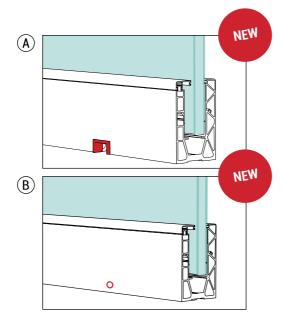
Solution for draining water without the use of wedges. Static load tests were carried out in the laboratory with the processed profile (minimum 600 mm / 23.62 in centre distance).

In order to determine the number of through holes in a given context/project, we recommend that you rely on your deigner and/or structural engineer, who will have to consider the possible design water load and thus determine the optional spacing.

Valid for models: Ninfa 6,106

B) Profile with side hole

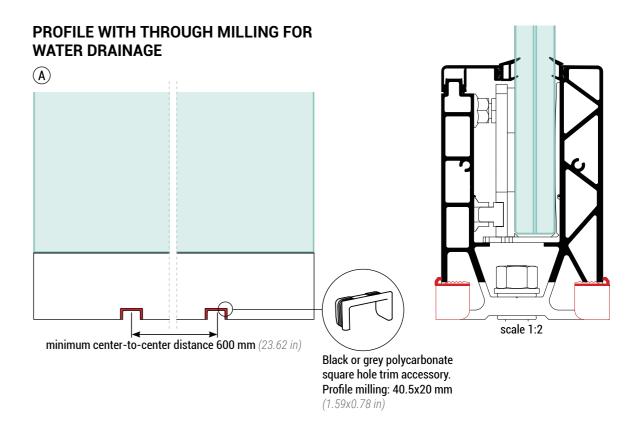
Solution for draining any water present in the profile (minimum of 3 holes per bar at 6 m / 6.56 yd).







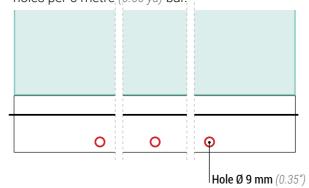
TECHNICAL DETAILS

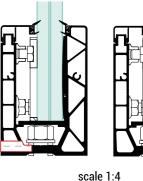


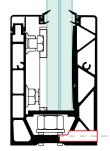
PROFILE WITH SIDE HOLE FOR INTERNAL WATER DRAINAGE

(B)

Profile with a minimum of 3 Ø 9 mm (0.35 in) holes per 6 metre, (6.56 yd) bar,







faraone.it 90 **NINFA THE SERIES 6**

NINFA176/186 SOLUTIONS FOR WATER DRAINAGE AND COVER PROFILES

CONNECTION BETWEEN FLOOR AND PROFILE

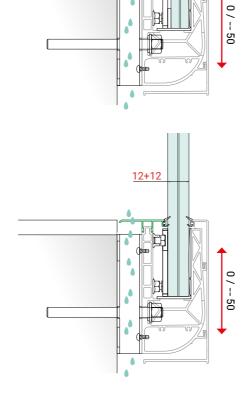
Example valid to the models: Ninfa 176/186 with with 8+8 (5/16"+5/16") glass

CONNECTION BETWEEN FLOOR AND PROFILE

Example valid to the models: Ninfa 176/186 with 10+10 (3/8"+3/8") glass



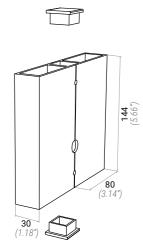
Example valid to the models: **Ninfa 176/186 with 12+12** (1/2"+1/2") **glass**



TECHNICAL DETAILS

APPLICATIONS WATER DRAINAGE / SPACER WITH LATERAL FIXING

Example valid to the models: **Ninfa 176/186**



STEP01

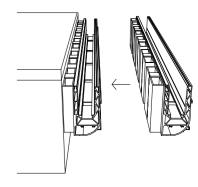
- a) Fixes the lateral spacer/water drainage to the profile
- b) Prepare the fixing screws



a) Fix the profile to the wall following the installation

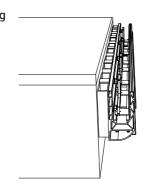
STEP₀₂

installation instructions for NINFA 176/186.



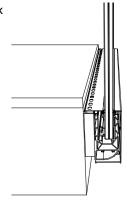
STEP03

a) Prepare the accessories inside the profile, following the installation instructions for NINFA 176/186.



STEP04

- a) Insert, adjust, and lock the glass using the RS system
- b) Insert the internal and external cover.

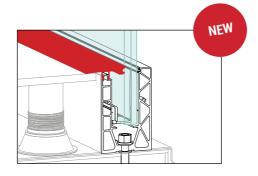


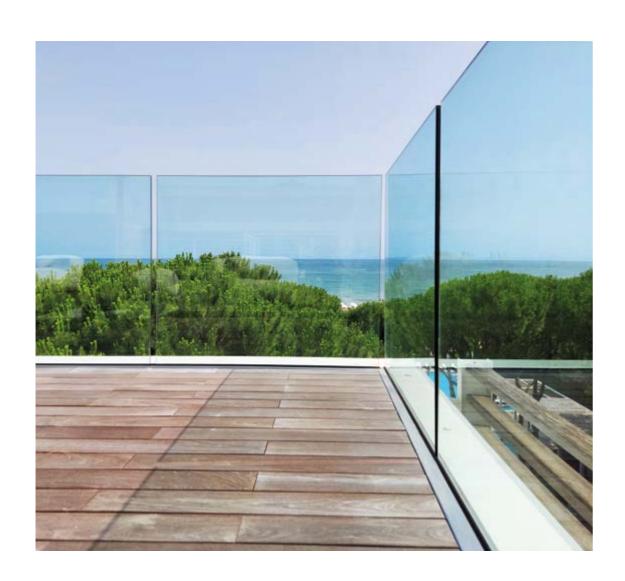
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COVER CLADDING

EXTERNAL COVERS

For a perfect finish and connection between floor and glass, no visible screws, only snap-on.

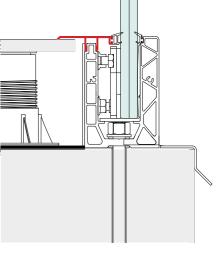




TECHNICAL DETAILS

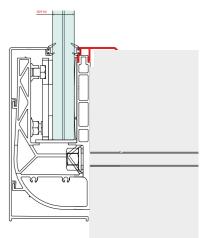
APPLICATIONSON FLOATING FLOOR

Example valid for models: Ninfa 6,106,56,116



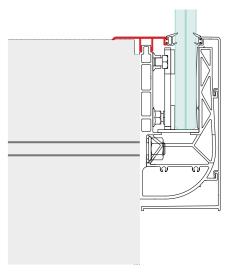
CONNECTION BETWEEN FLOOR AND PROFILE

Example valid for models: Ninfa 176



CONNECTION BETWEEN FLOOR AND PROFILE

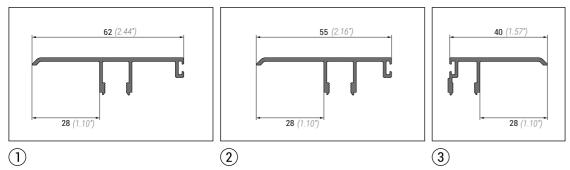
Example valid for models: Ninfa 186



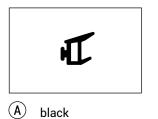
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TECHNICAL DETAILS

TYPES



GASKETS

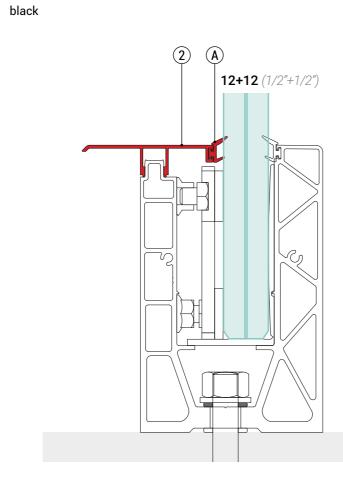




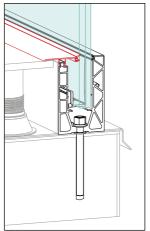
 \bigcirc

Example of casing and gaskets combination with Ninfa 6 and 12+12 (1/2"+1/2") glass

- 2) External cover
- A) Gasket to be inserted



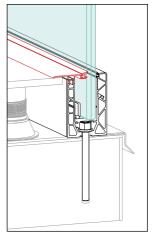
NINFA'6



With 10+10 (3/8"+3/8") glass: Cover 1 + gasket B

With 12+12 (1/2"+1/2") glass: Cover 2 + gasket A

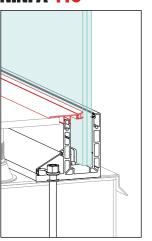
NINFA 106



With 8+8 (5/16"+5/16") **glass:** Cover **2** + gasket**A**

With 10+10 (3/8"+3/8") glass: Cover 2 + gasket B

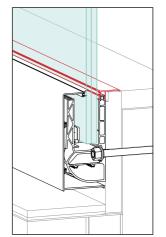
NINFA[®] 116



With 8+8 (5/16"+5/16") glass: Cover 2 + gasket A

With 10+10 (3/8"+3/8") glass: Cover 2 + gasket B

NINFA 176

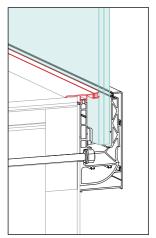


With 8+8 (5/16"+5/16") **glass:** Cover **3** + gasket **B**

With 10+10 (3/8"+3/8") glass: Cover 3 + gasket B

With 12+12 (1/2"+1/2") glass: Cover 3 + gasket B

NINFA 186

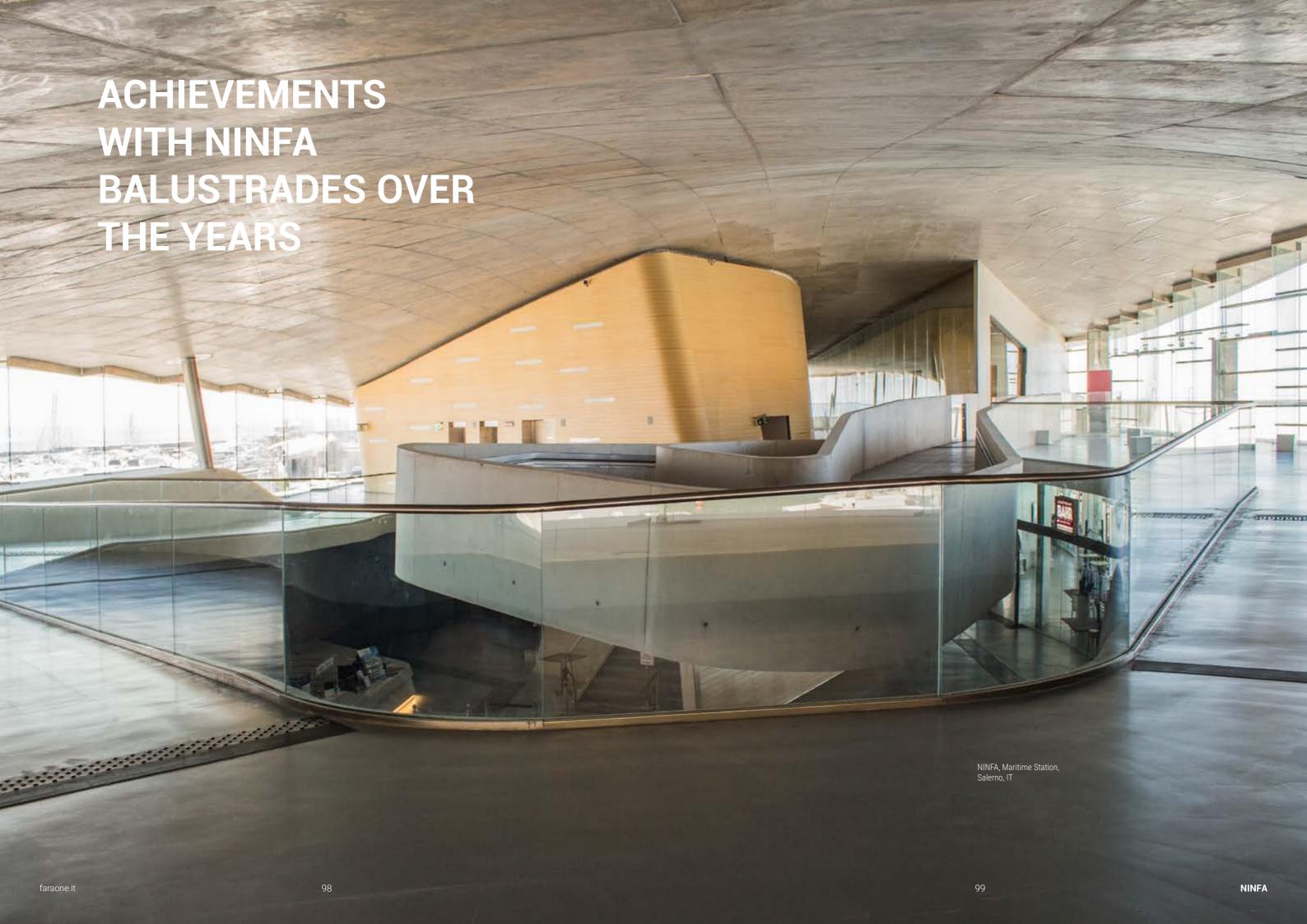


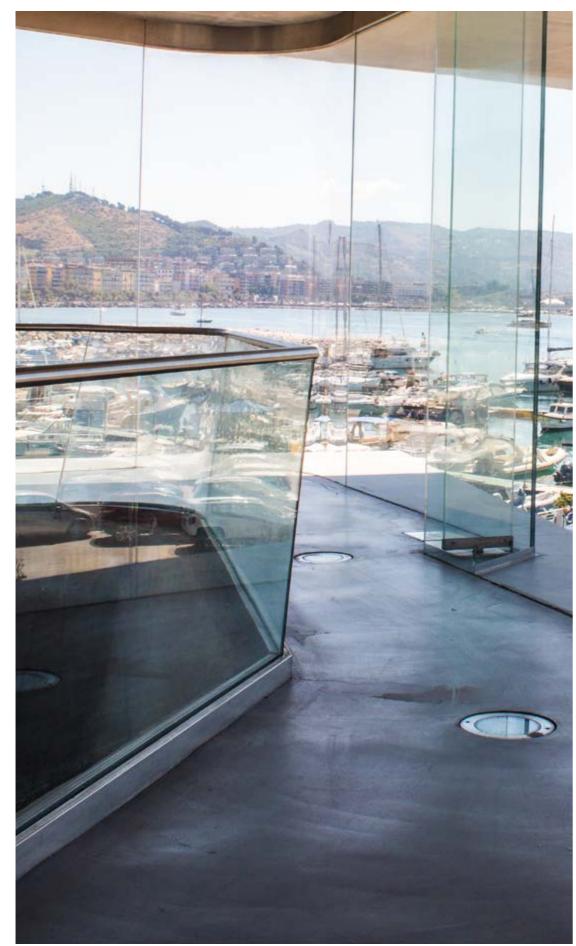
With 8+8 (5/16"+5/16") glass: Cover 1 + gasket A

With 10+10 (3/8"+3/8") **glass:** Cover **2** + gasket **A**

With 12+12 (1/2"+1/2") glass: Cover 2 + gasket B

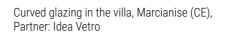
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NINFA, Maritime Station, Salerno, IT

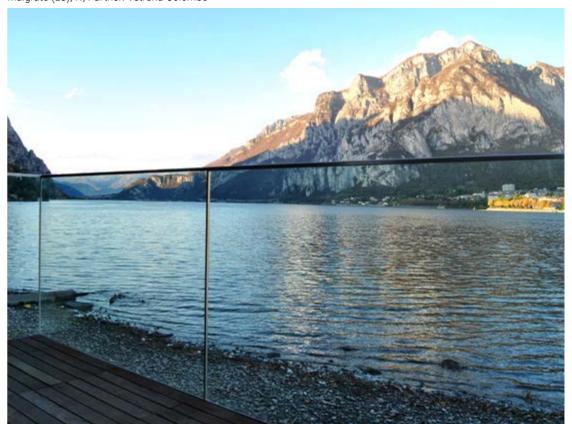






Enzo Ferrari Museum, Maranello (M0)

Redevelopment of the Malgrate lakeside promenade, Malgrate (LC), IT, Partner: Vetreria Colombo



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NINFA, Berlin Shopping Centre, DE

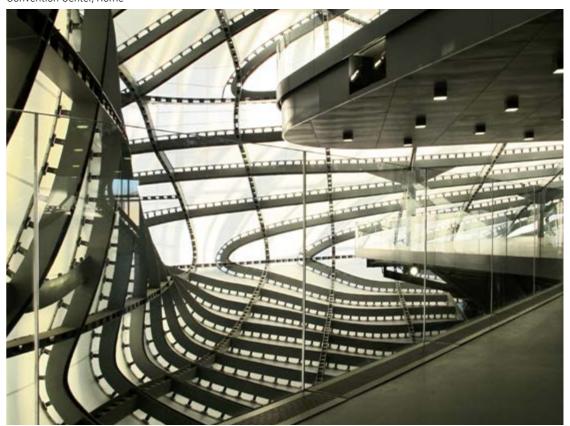
NINFA, Rome Fiumicino Airport, IT





NINFA CON LED, Ponte della Pace, Tbilisi, Georgia

Convention Center, Rome



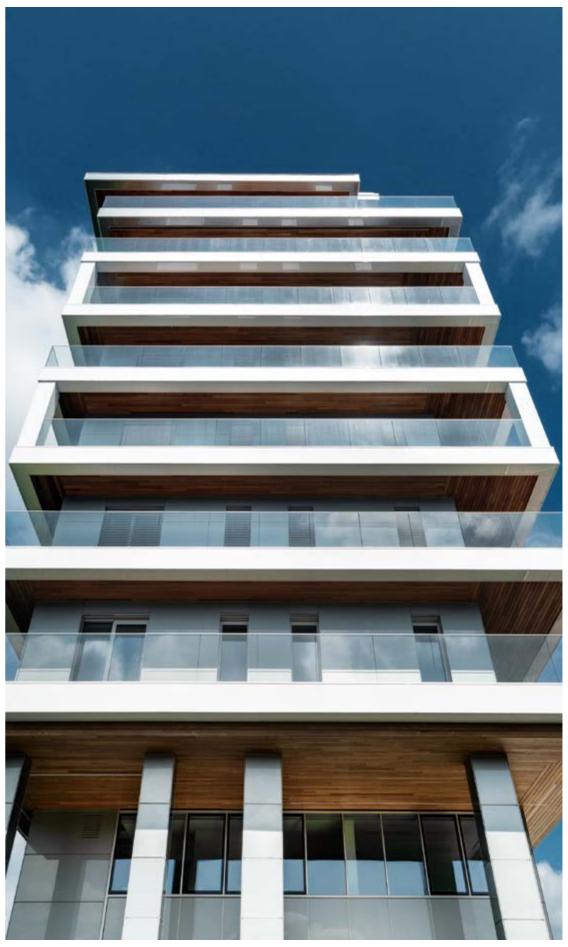


Ninfa Railings, Residential Building in the Milan Area

Ninfa Railings, Residential Building in the Milan Area

Multifunctional Building, Cuneo, IT





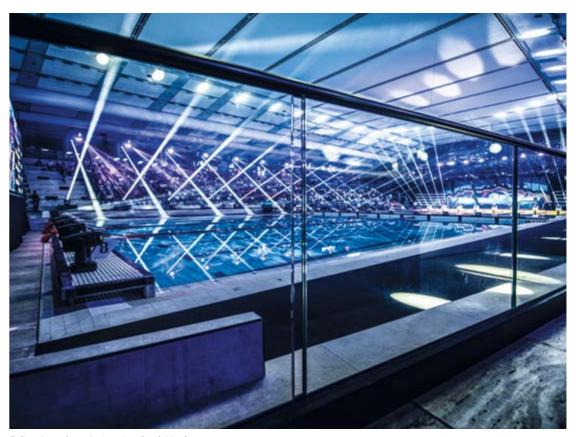
Multifunctional Building, Cuneo, IT

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Baldoria (formerly Velvet) Rimini Partner: Vetreria Nuova Romagnola





Felice Scandone Swimming Pool, Naples

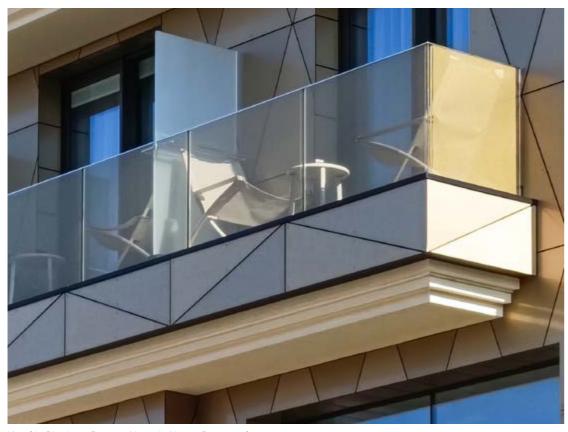




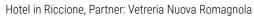
Residential building in Jesolo



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Hotel in Riccione, Partner: Vetreria Nuova Romagnola

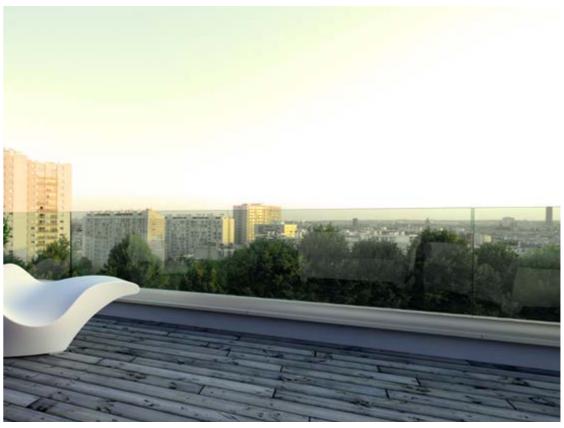






Residential Building, Milan

Private Residence



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ASSEMBLY INSTRUCTIONS NINFA THE 6TH SERIES

Download the assembly instructions in PDF format













NINFA 56







NINFA 116







NINFA 50-N

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How you can contact us:

email: faraone@faraone.it Tel: +39 0861 784200

web: faraone.it



NINFA THE SERIES 6 faraone.it 110

NINFA TECHNICAL SPECIFICATIONS

Ninfa system glass balustrades (or 1/D) Model NINFA 186 profile size tention to the installation of the hardsimilar), complying with the regulations currently in force, with relative test report containing:

- _ Static load test in compliance with resistance to horizontal static linear load 2 kN/m (137 lb/ft) or resistance to horizontal static linear load 3 kN/m (206 lh/ft)
- _ Dynamic load test with variable pendulum height depending on the intended use and possible breakage of glass.
- _ Technical drawings with the heights and dimensions of each single component of the balustrade.
- In addition, it is necessary to define the type of glass sheets and interlayer of the layered package in order to meet the "post-breakage" requirement.

1. CHARACTERIZATION OF **NINFA SERIES 6 BALUSTRADES**

Ninfa system balustrade or railing (or similar) made with 6060 T66 or 6063 T66 aluminium alloy profile of the model chosen by the Works Management, based on the intended use and the class to which it belongs; it is suitable for being mounted on the floor, integrated into the floor or fascia mounted, to be chosen from the following Faraone models (or similar):

- 1/A) Model NINFA 6 profile size of 86x136 mm (3.38"x 5.35") (base x height) with laminated glass 10+10 (3/8"+3/8"), 12+12 (1/2"+1/2");
- 1/B) Model NINFA 106 profile size of 74x111 mm (2.91"x 4.37") (base x height) with laminated glass 8+8(5/16"+5/16"), 10+10 (3/8"+3/8");
- 1/C) Model NINFA 56 profile size 64x83 mm (2.51"x 3.26") (base x height) with laminated glass with 6+6 (1/4"+1/4"), 8+8 (5/16"+5/16");

of 80x173 mm (3.14"x 6.81") (base x height) with laminated glass 8+8 (5/16"+5/16"), 10+10 (3/8"+3/8"), 12+12 (1/2"+1/2");

1/F) Model NINFA 176 profile size of 80x173 mm (3.14"x 6.81") (base x height) with laminated glass 8+8 (5/16"+5/16"), 10+10 (3/8"+3/8"), 12+12 (1/2"+1/2");

1/E) Model NINFA 116 profile size of 122x114 mm (4.80"x 4.48") (base x height) with laminated glass 8+8 (5/16"+5/16"), 10+10 (3/8"+3/8").

2. FUNCTIONALITY AND AES-THETICS OF THE NINFA BALUS-**TRADES**

The aluminium profile of the balustrade will be equipped with special accessories that allow adjustment for the alignment and "plumb" of the glass sheets.

The type and quantity of the profile fixings to the floor/wall will vary according to the resistance class requested by the Works Management and the nature of the support. If the fixing is carried out on a beam or base in reinforced concrete, it will be necessary to make sure that the concrete is of minimum class C25/30.

The aluminium profiles positioned "on sight" will be anodized with silver colour class 15 micron (0,60 mil) (or other colour on request) or painted with epoxy powders in RAL colour or other colour on request.

3. PERFORMANCE IN POST-BREAKAGE CONDITIONS

For the profiles of the NINFA system, it will be sufficient to use the tempered-hardened laminate glass to obtain residual post-breakage resistance. It is advisable to pay extreme at-

ened sheet, which must be placed in the compressed part of the laminate, i.e. externally to the horizontal static linear load and impacts.

4. ADDITIONAL SAFETY GUAR-ANTEES IN POST-BREAKAGE OF GLASS AND HANDRAIL

To ensure "system redundancy" and achieve the satisfaction of the post-breakage criterion, the Construction Manager may also request the upper handrail to be anchored and glued to the individual glass sheets in order to ensure, in case of breakage of the sheets, the transfer of linear loads to the adjacent intact sheets and the reduction of the risk of collapse of the laminate glass with both sheets broken. Note that this solution involves a price increase due only to the cost of the handrail.

TO KNOW MORE ABOUT IT

Consult the document "Faraone Informs 27" on the www.faraone.it web-

This documentation is the result of a long and careful experimental campaign combined with the Faraone experience, and it makes available to all that are interested the many tests that have been carried out and the behaviour/performance of the various glass solutions (all valid with Faraone systems only), as well as various examples, observations and analyses on the world of glass balustrades.

Eng. Gabriele Romagnoli

GENERAL CONDITIONS OF SALE

Transportation costs shall be evaluated with every offer, according to volume weight and destination.

COMPLAINTS:

Any complaint must be sent to Faraone within a final deadline of 8 days from receipt of goods; we do not accept returned goods unless previously authorized by Faraone in carriage collect.

Any returned products that should hypothetically arrive to the Faraone company without prior authorization will be refused without exception and returned to the sender in carriage collect.

PAYMENT METHOD:

For foreign countries, the payment of the goods is made by bank transfer in advance. Other payment methods will be agreed under the credit insurance.

- VAT: all prices listed in the pricelists are exclusive of VAT.

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We thank our partners for the shared photographic material.

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- Vetreria Colombo
- Vetreria Nuova Romagnola

GRAPHIC DESIGN

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COORDINATION

Faraone Marketing Office

TECHNICAL DRAWINGS

Ufficio Tecnico Faraone

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Stefano Spinosi

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