

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.

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:

- 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;
- To date, more than 900,000 meters (984.300 yd) of Ninfa balustrade have been installed in Italy with total customer satisfaction;
- 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;



Sabatino Faraone PRESIDENT



Flavio Faraone CHIEF EXECUTIVE OFFICER / CEO



Pamela Faraone
ADMINISTRATIVE MANAGEMENT



Federico Vallese



- 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.

Ninfa the 6th series is not just a product. These are some numbers related to the world of Ninfa: 35,000 orders processed to direct customers; 800,000 meters installed equal to 80,000 homes with Ninfa balustrades (about 10 meters 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 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)

(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)

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.





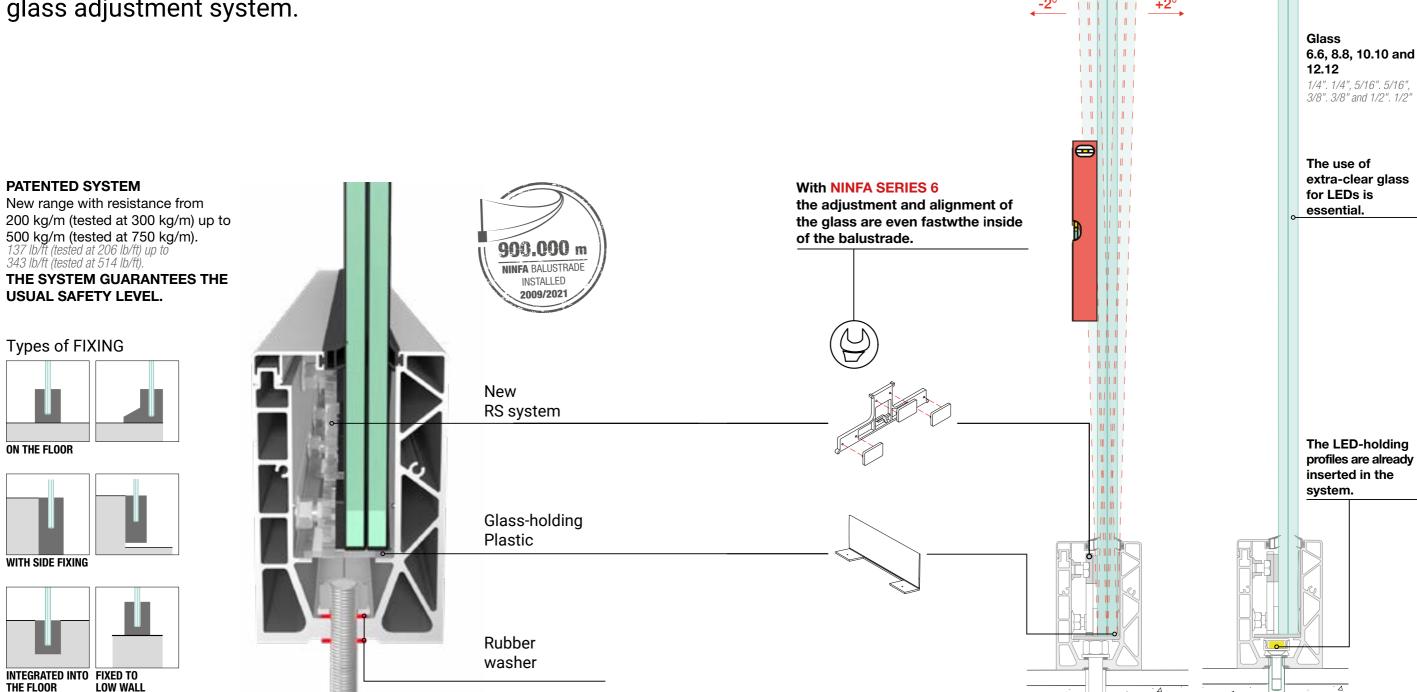
Watch the installation video of Ninfa 106 or consult the written instructions on p. 192



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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.



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THE IDEAL TECHNOLOGICAL PACKAGE

- 1 NINFA system
- 2 Safety glass

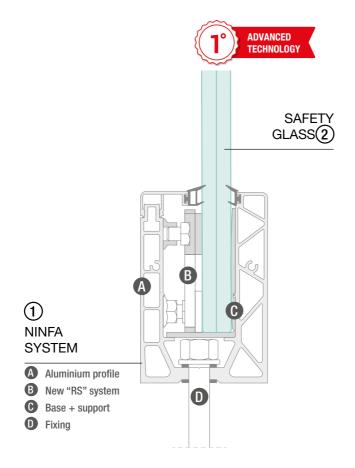
Only with **the NINFA system** and the **appropriate safety glass** it is possible to obtain **surprising performances** in total compliance with the regulations.

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

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

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.





NINFA SYSTEM

(SUPPLIED BY FARAONE)







SAFETY GLASS

(INDICATED BY FARAONE)



The advantages of the NINFA system



TEST IN COMPLIANCE WITH REGULA-TIONS

We calculate and test the resistance levels of Ninfa balustrades in compliance with 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

Rely on the indications by Faraone on 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 plates, it is important to insert the 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 use.

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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 floor
- c) Thoroughly clean the holes
- d) Apply the resin
- e) Insert the rods

YOU ONLY HAVE TO

Place in sequence:

first rubber washer,

aluminium profile,

second rubber washer,

plain washer, nut M12

> START OF ASSEMBLY

a)Fasten the profile to the floor



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)



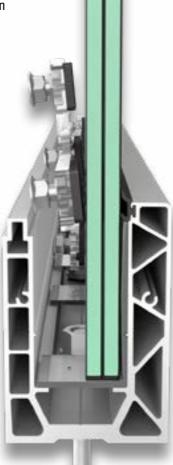
STEP03

> 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



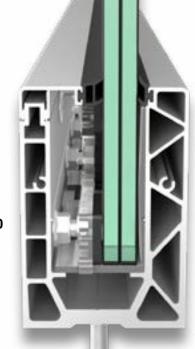
STEP04

> Final phase

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



installation.



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.

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ALUMINIUM FINISHES

Exemplary reproduction of the available finishes

Customize your balustrade



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 (raw on request) PREMIUM ON REQUEST



INOX CHROME MATT ANODIZED



2000 RAL colours

ON REQUEST

Other colours

RAL Finishes and Special Paints

BASE



RAL 9010 POLISH



PREMIUM ON REQUEST







ALUMINIUM GREY RAL 9006 MATT



ANTHRACITE GRAY RAL 7016 MATT



RAL 7016 GRINZ

SPECIAL PAINTING DOVE GREY EFFECT



BRONZE

NKR2

SPECIAL PAINTING CONCRETE GREY EFFECT

ANTIQUE GREY SPECIAL PAINTING WRINKLED EFFECT

NKR3 SPECIAL PAINTING CORTEN EFFECT

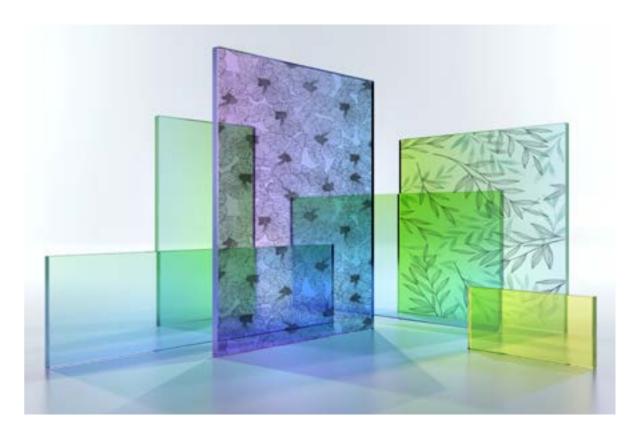
GLASS FINISHES

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 with opaque colours or particular shades such as the cloud effect.
- Use screen printing or etching to give a special touch to your environment.
- Customize the interlayer with special 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 finishes and Painted

BASE



SILVER SILVER ANODIZED (raw on request)



WHITE RAL 9010 GLOSSY



BLACK RAL 9005 MATT Other colours



2000 colours RAL

Led Pack

(Not supplied by Faraone)

TYPES OF LIGHT

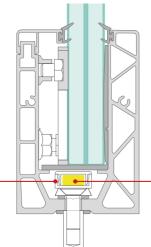




version

MULTICOLOR LIGHT Customize the type of light thanks to the RGB LED

Supplied by Faraone



LED EFFECTS

Get the most of the light and the effect you want:

EDGE EFFECT:

• on extra-clear glass

DIFFUSED LIGHT EFFECT:

• on glass with surface treated for LEDs

Supplied by Faraone



NINFA with multicolor LED. Hotel Riccione.

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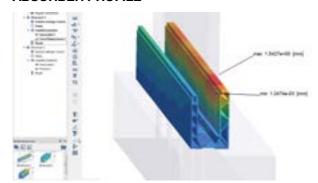
NINFA THE 6th SERIES AND ITS POTENTIAL

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 shock-absorbing 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 "shock-absorbing 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 DE-SIGN AND COMPOUND

Have you ever thought of gaskets as an important 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.

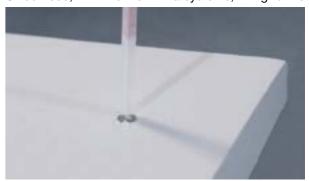
The Ninfa 6 series has left nothing to chance, thanks to the gasket made with a special compound that allows it not to shrink over time, not to yellow and always remain under pressure on the glass.

FIXING: CHEMICAL vs. MECHANICAL

This is the question that designers and installers 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 impor-

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tance, 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 bodies:

- a threaded bar certified according to the standard
- a corresponding CERTIFIED chemical anchor recommended by the manufacturer, not just any chemical resin!

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 concrete.

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 in-



clination and the non-prediction of water discharges - do not use polyester resins, they are not suitable for the required loads.

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 (water-proof)
- external discharges on the whole new Ninfa 6 series

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

THE TESTS

¹Test at the Faraone laboratory

The birth of each product passes through laboratory tests. Even the series 6 of Ninfa, during the development process, was subjected to numerous tests at the Faraone LAB.

²Test at the Polytechnic Institute of Milan

After passing the tests at the Faraone LAB, the certifications are also obtained at the Polytechnic Institute of Milan.











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THE MAINTENANCE

In general, classic iron or masonry balustrades need continuous ordinary and extraordinary maintenance with painting from 6 to 10 years.

The more you live in areas affected by atmospheric agents, such as near the sea, the more maintenance you will need to do.

With an aluminium and glass balustrade (with suitable anodizing or painting) you can rest assured for many years. These materials, in fact,



are widely used in architecture to last over time. This type of balustrade consists of an aluminium profile painted according to QUALICOAT and SEASIDE system and anodized according to QUALANOD.

The profile is fixed to the floor or a base by means of specific bolts. The glass sheets are inserted inside the aluminium profile, and they are adjusted and blocked by means of special systems that prevent them from escaping and ensure their due rigidity.

The main components of a balustrade system are:

- Painted or anodized aluminium profile (supporting structure);
- Floor fixing bolts;
- Laminated tempered/tempered or tempered/ hardened glass 8.8 or 10.10 (5/16". 5/16" or 3/8". 3/8") + interlayer;
- Gaskets:

For each system, a booklet on ordinary maintenance is available, which consists of simply cleaning the profiles and the glass.

Zero Maintenance



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 or refurbishment

01RESIDENTIAL

- private house - indoors / outdoors



05HOSPITALITY

- hotels
- restaurants
- chalets
- poolside fencing



02CONDOMINIUMS

- balconies
- terraces



06INFRASTRUCTURE

- airports
- train stations



03FENCES

- residential
- public



07HISTORICAL BUILDINGS

- Churches and places of worship
- redevelopment of historic centres



04WORKING ENVIRONMENTS

- offices
- conference rooms



08SHOPPING CENTERS

- halls
- external terraces



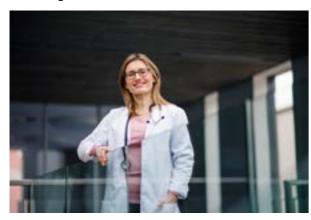
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INTENDED USE

For new or refurbishment

09HEALTHCARE FACILITIES

- hospitals
- private clinics
- socio-health structures
- nursing homes



10SCHOOL BUILDINGS

- schools
- campus and university



11SPORTS FACILITIES

- stadiums
- sports halls
- swimming pools
- racetracks





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DESIGN: R&D FARAONE - PATENTED SYSTEM



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.

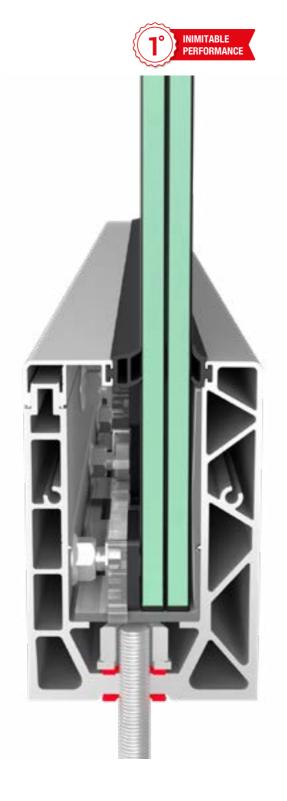


For uncrowded environments: Tested to 300 kg/m 206 lb/ft Dynamic impact resistance up to 350 J 258 ft*lb



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)

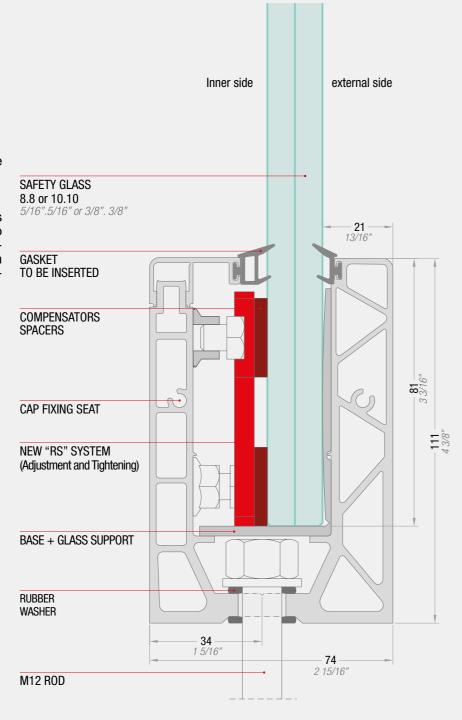




TECHNICAL DETAILS

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 sheets, such as the "compensator thickness" shown in the drawing alongside.

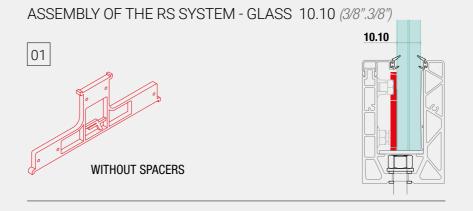


GLASS THICKNESS VARIATIONS:

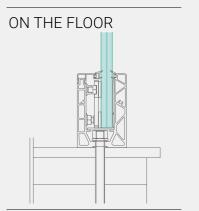
The thickness of the glass can vary from a minimum of 8.8 (5/16".5/16") to a maximum of 10.10 (3/8".3/8") using the appropriate compensator thickness

inserted in the "RS System". On the left, the two variants with glass thickness change (highlighted in red).

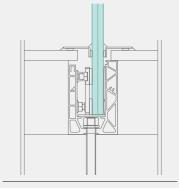
ASSEMBLY OF THE RS SYSTEM - GLASS 8.8 (5/16".5/16") 8.8 O1 SPACERS 4 mm 3/16"



MAIN APPLICATIONS



INTEGRATED INTO THE FLOOR 1



Integrated into the floor 1 recommended for indoor use only

scale 1:1

faraone.it 36 NINFA 106



DESIGN: R&D FARAONE - PATENTED SYSTEM



The **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.

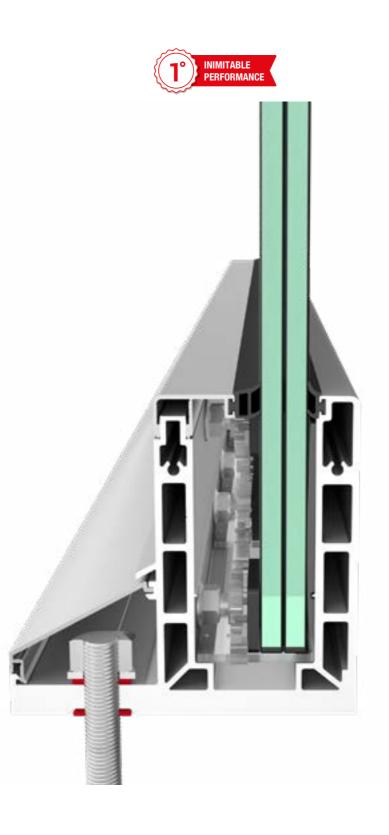


For uncrowded environments: Tested at 300 kg/m 206 lb/ft impact up to 350 J 258 ft*lb



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

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

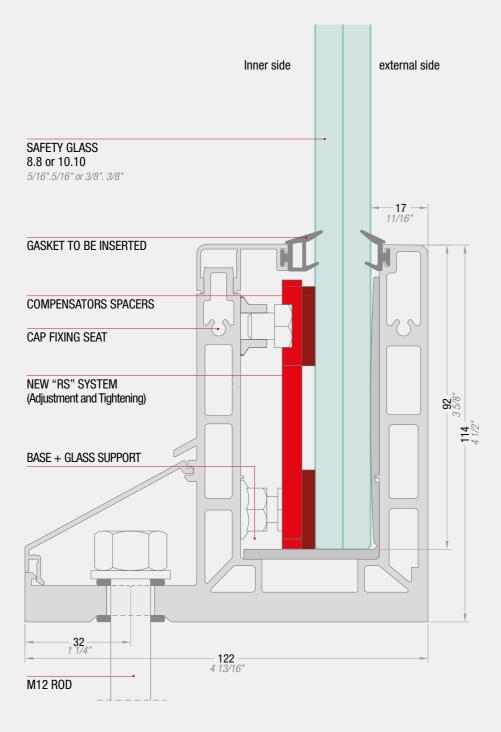




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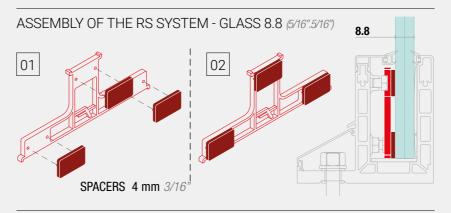


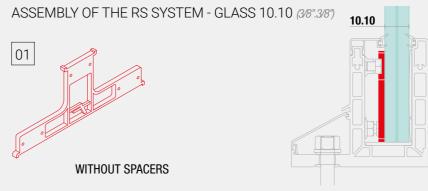
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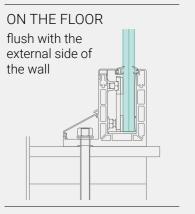
tor thickness inserted in the "RS System".

On the left, the two variants with glass thickness change (highlighted in red).





MAIN APPLICATIONS



INTEGRATED INTO THE FLOOR 1 solution suitable for external use

scale 1:1

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DESIGN: R&D FARAONE - PATENTED SYSTEM



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.

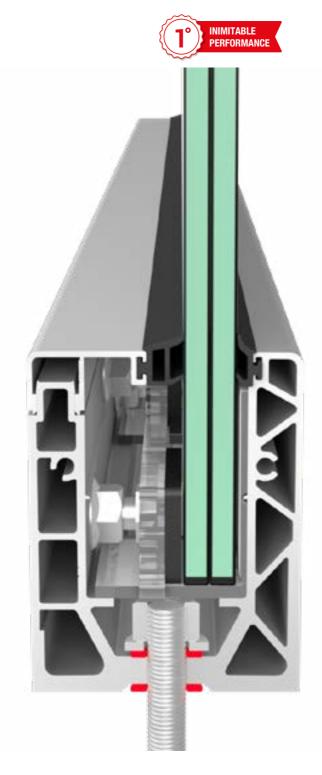
Optional: integrable LED and handrail.

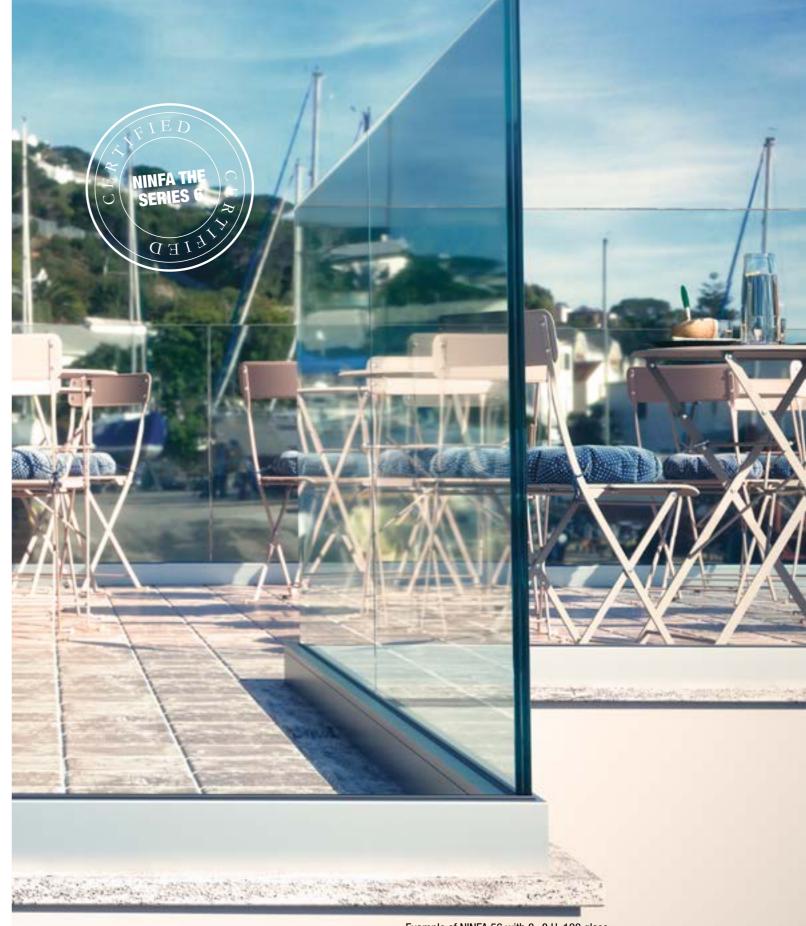
Finishes: Standard and on request customizations.



For uncrowded environments: Tested at 300 kg/m 206 lb/ft impact up to 350 J 258 ft*lb

Ninfa 56 H (Home)





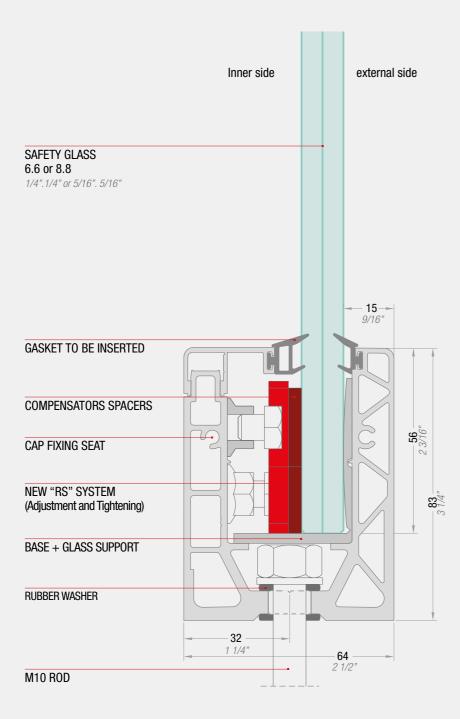
Example of NINFA 56 with 8+8 H. 100 glass positioned in an environment with a "fall into the void" of less than 80 cm.

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TECHNICAL DETAILS

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 sheets, such as the "compensator thickness" shown in the drawing alongside.

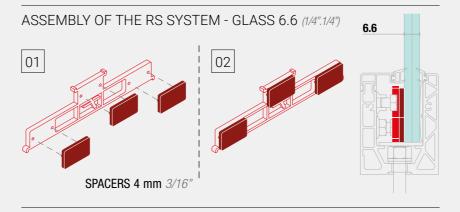


GLASS THICKNESS VARIATIONS:

The thickness of the glass can vary from a minimum of 6.6 (1/4".1/4") to a maximum of 8.8 (5/16".5/16") using the appropriate compensator

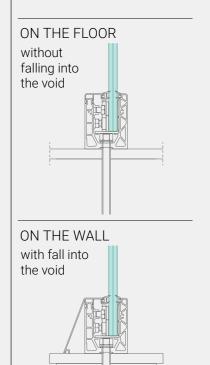
thickness inserted in the "RSSystem".

On the left, the two variants with glass thickness change (highlighted in red).





MAIN APPLICATIONS



scale 1:1

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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.

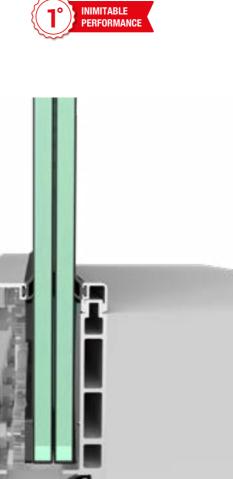


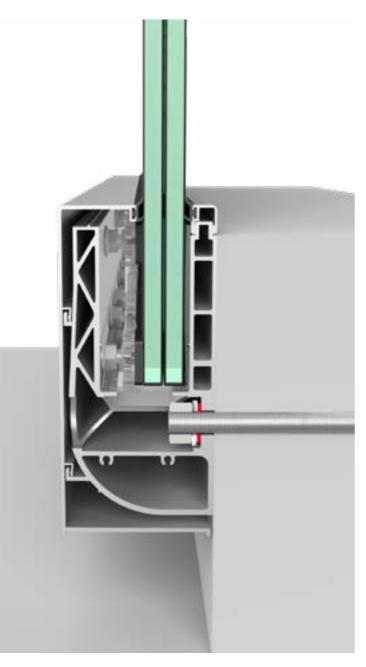
For uncrowded environments: Tested at 300 kg/m 206 lb/ft impact up to 350 J 258 ft*lb



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

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





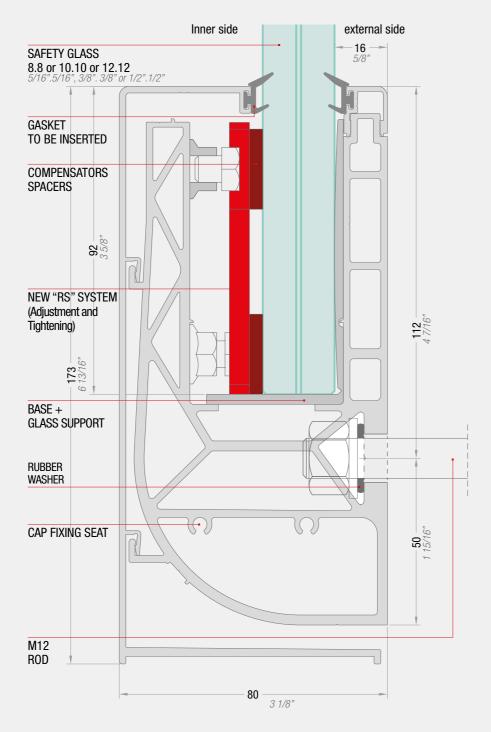


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TECHNICAL DETAILS

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 sheets, such as the "compensator thickness" shown in the drawing alongside.

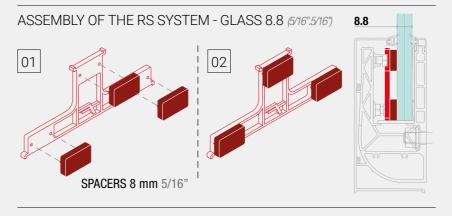


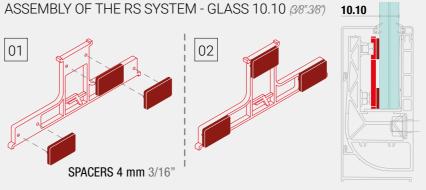
scale 1:1

GLASS THICKNESS VARIATIONS:

The thickness of the glass can vary from a minimum of 8.8,10.10 (5/16".5/16", 3/8".3/8") to a maximum of 12.12 using the appropriate com-

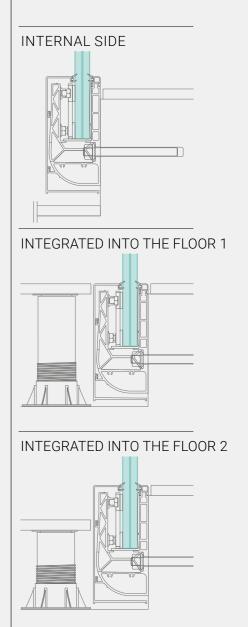
pensator thickness inserted in the "RS System". On the left, the two variants with glass thickness change (highlighted in red).







MAIN APPLICATIONS



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DESIGN: R&D FARAONE - PATENTED SYSTEM



THE GLASS BALUSTRADE WITH EXTERNAL LATERAL FIXATION

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. tions.

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.

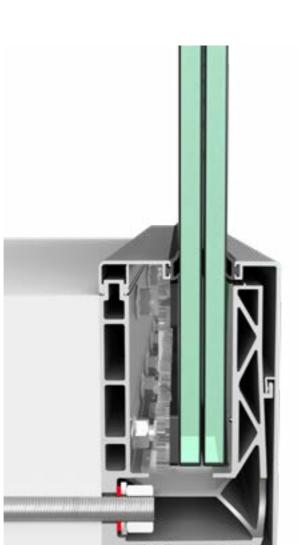


For uncrowded environments: Tested at 300 kg/m 206 lb/ft Dynamic impact resistance up to 350 J 258 ft*lb

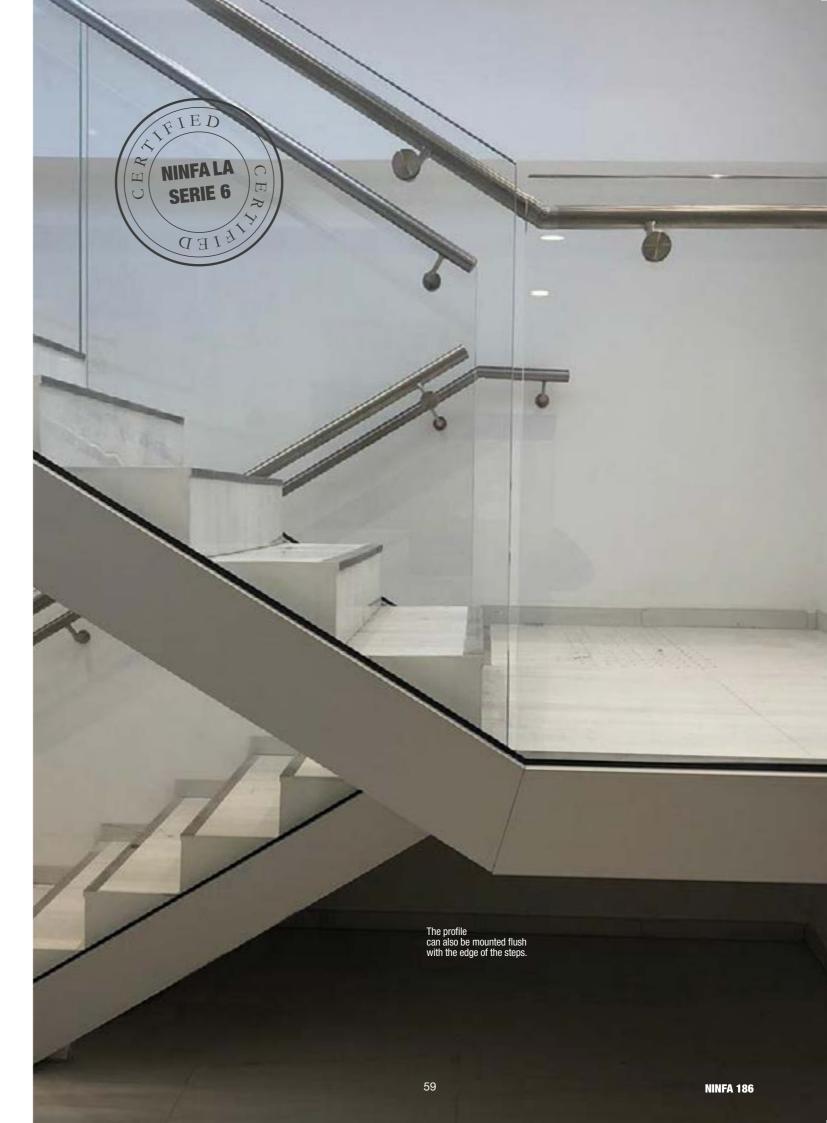


For very crowded environments: Tested to 450 kg/m 302 lb/ft Dynamic impact resistance up to 600 J 440 ft*lb

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



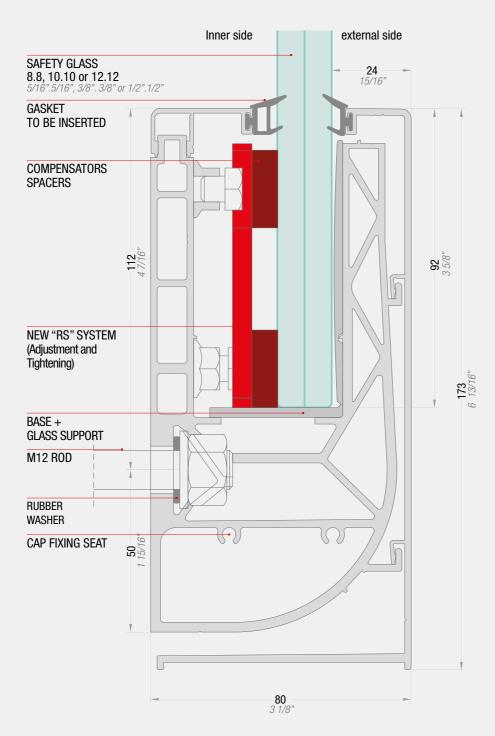
INIMITABLE PERFORMANCE



TECHNICAL DETAILS

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 sheets, such as the "compensator thickness" shown in the drawing alongside.

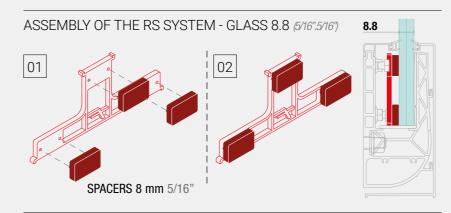


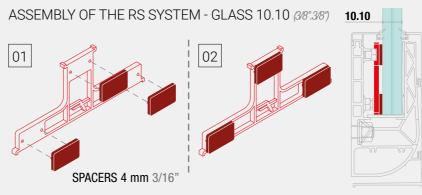
scale 1:1

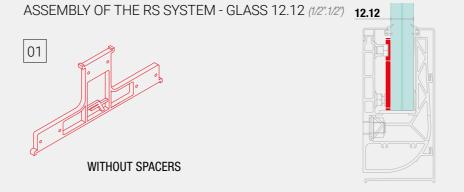
GLASS THICKNESS VARIATIONS:

The thickness of the glass can vary from a minimum of 8.8, 10.10 (5/16".5/16",3/8".3/8") to a maximum of 12.12 (1/2".1/2") using the appropriate com-

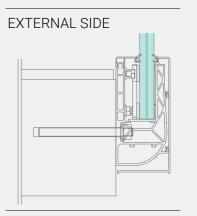
pensator thickness inserted in the "RS System". On the left, the two variants with glass thickness change (highlighted in red).







MAIN APPLICATIONS



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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.

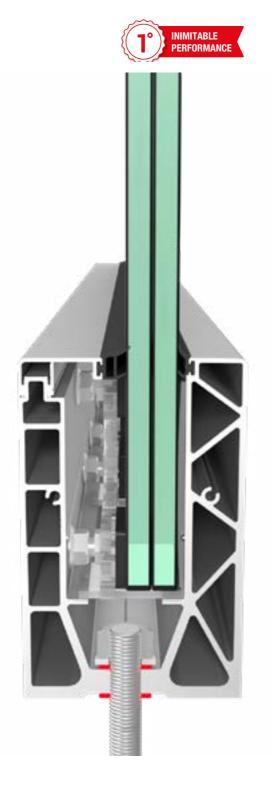


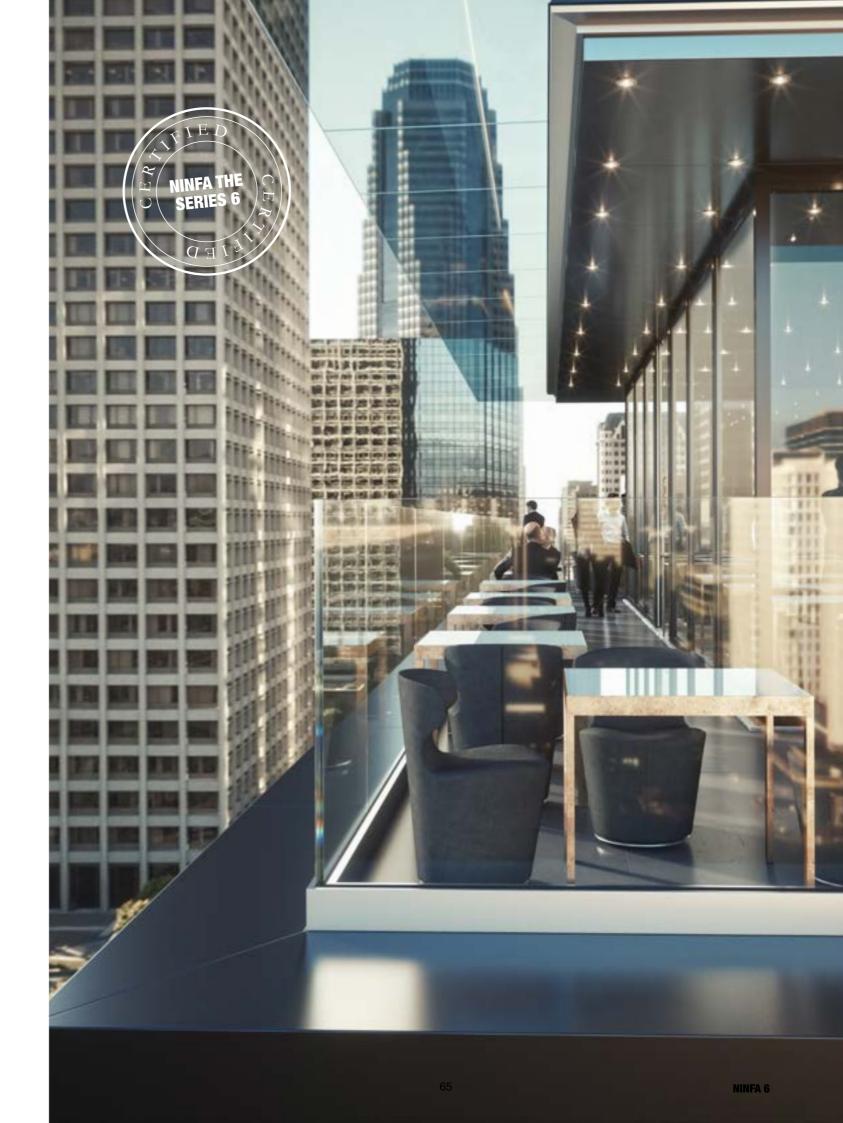
For uncrowded environments: Tested at 300 kg/m 206 lb/ft Dynamic impact resistance up to 350 J 258 ft*lb



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)

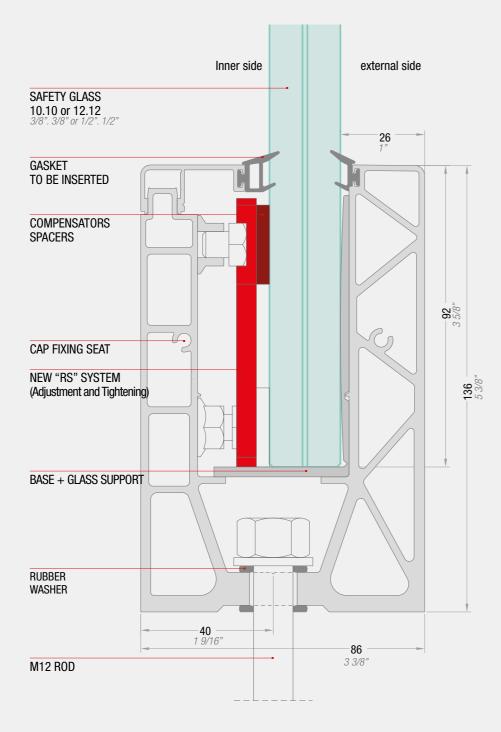




TECHNICAL DETAILS

This page shows the complete list of the main components.

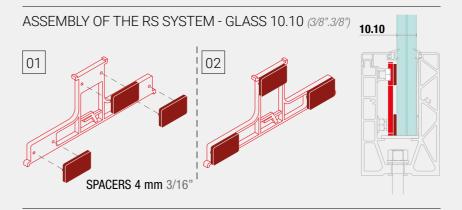
Some accessories, such as the adjusting block, the gaskets and the cladding can vary to accommodate different thicknesses of glass sheets, such as the "compensator thickness" shown in the drawing alongside.

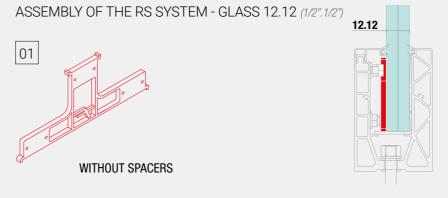


GLASS THICKNESS VARIATIONS:

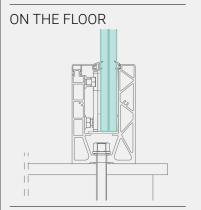
The thickness of the glass can vary from a minimum of 10.10 (3/8".3/8") to a maximum of 12.12 (1/2".1/2") using the appropriate com-

pensator thickness inserted in the "RS System". On the left, the two variants with glass thickness change (highlighted in red).

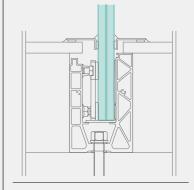




MAIN APPLICATIONS



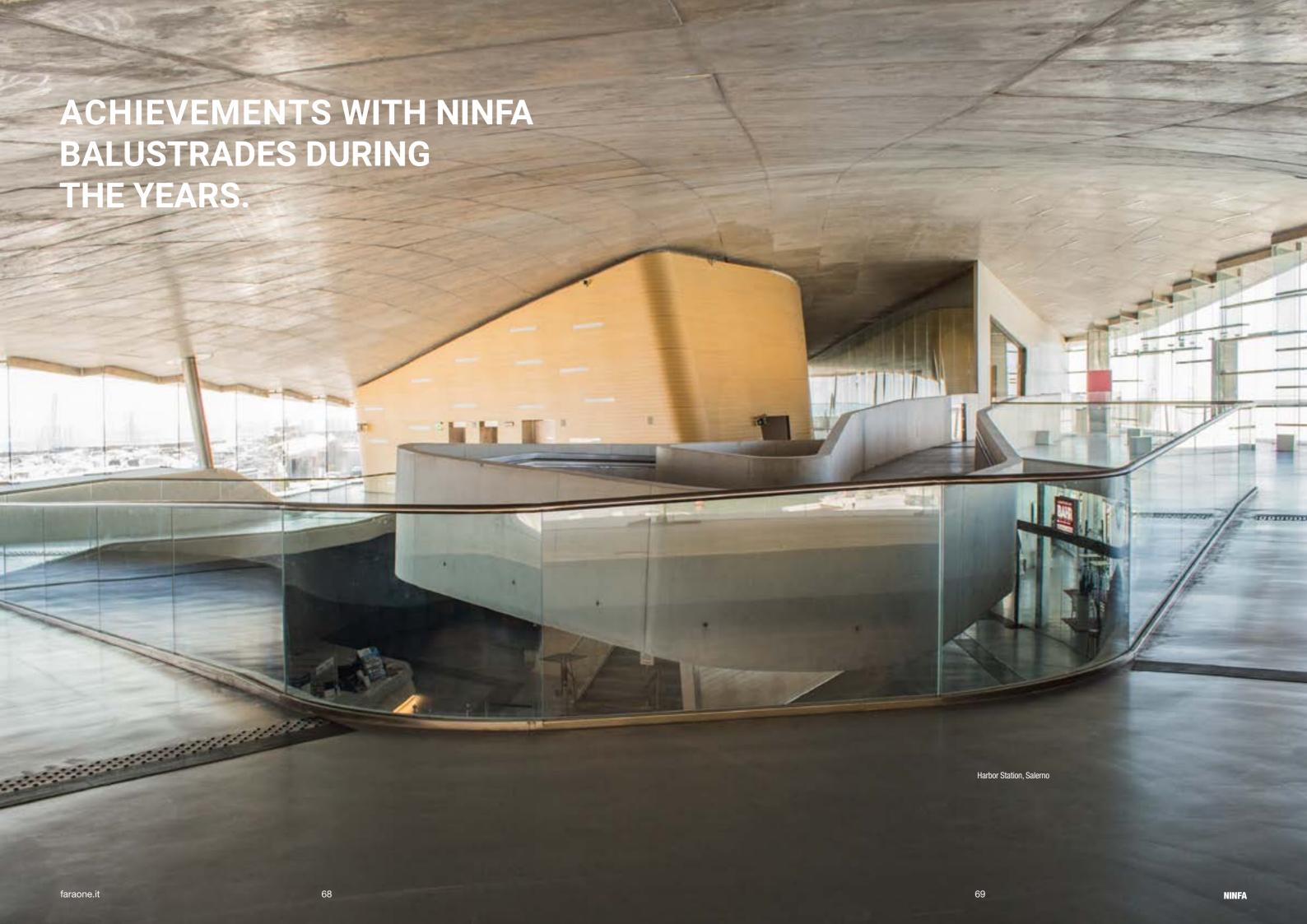
INTEGRATED INTO THE FLOOR 1



Integrated into the floor 1 recommended for indoor use only

1:1 scale

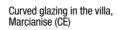
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Harbor Station, Salerno







Enzo Ferrari Museum, Maranello (MO)





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Mall of Berlin, Berlin

Leonardo Da Vinci Airport Roma Fiumicino

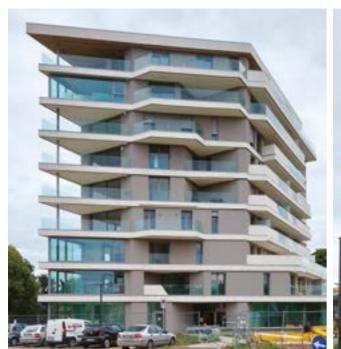




Bridge of Peace, Tbilisi, Georgia

"La Nuvola" Convention Centre, Roma





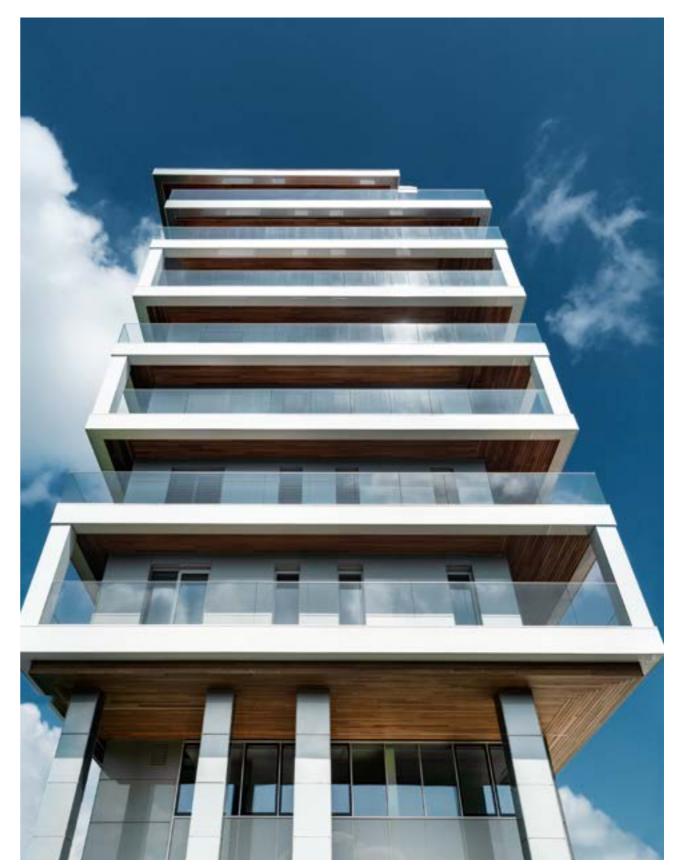


De Gasperi Residence, Milan

Kennedy Residence, Milan







F5 Multifunctional building, Cuneo

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ASSEMBLY INSTRUCTIONS NINFA THE 6TH SERIES

Download the assembly instructions in PDF format























CUSTOMER CARE

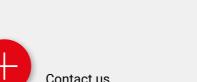
Our experience is at your service. We guide you in choosing the best solution for your needs.



EXPERT GUIDE

To follow a project in all its phases is sometimes very difficult. For this reason, we provide you with a total assistance from technical advice to post-purchase.

How you can contact us: email: faraone@faraone.it web: faraone.it





INSTALLATION

We carefully select the experts who carry out the installation of our products to ensure our standard of quality. During this phase, tests are carried out on site to ensure that the installation has been performed in a competent manner and that everything is safe.





Watch the assembly video

76 77 faraone.it **NINFA THE SERIES 6**

NINFA TECHNICAL SPECIFICATIONS

Ninfa system glass balustrades (or similar), 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 lb/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 class 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 the floor/wall will vary according to the resi- the www.faraone.it website. following Faraone models (or similar):

1/A) Model NINFA 6 profile size of 86x136 mm (3 3/8"x 5 3/8") (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 15/16"x 4 3/8") (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 3. PERFORMANCE IN POST-BREAKAGE 1/2"x 3 1/4") (base x height) with laminated glass with 6+6 (1/4"+1/4"), 8+8 (5/16"+

1/D) Model NINFA 186 profile size of 80x173 mm (3 1/8"x 6 13/16") (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 1/8"x 6 13/16") (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 13/16"x 4 1/2") (base x height) with laminated glass 8+8 (5/16"+5/16"), 10+10 (3/8"+3/8").

2. FUNCTIONALITY AND AESTHETICS OF THE NINFA BALUSTRADES

equipped with special accessories that allow to the cost of the handrail. adjustment for the alignment and "plumb" of the glass sheets.

The type and quantity of the profile fixings to Consult the document "Faraone Informs 27" on the concrete is of minimum class C25/30.

painted with epoxy powders in RAL colour or on the world of glass balustrades. other colour on request.

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 attention to the installation of the hardened 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 GUARANTEES 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 The aluminium profile of the balustrade will be this solution involves a price increase due only

TO KNOW MORE ABOUT IT

stance class requested by the Works Manage- This documentation is the result of a long and ment and the nature of the support. If the fixing careful experimental campaign combined with is carried out on a beam or base in reinforced the Faraone experience, and it makes avaiconcrete, it will be necessary to make sure that lable to all that are interested the many tests that have been carried out and the behaviour/ The aluminium profiles positioned "on sight" performance of the various glass solutions (all will be anodized with silver colour class 15 mi- valid with Faraone systems only), as well as cron (0.60 mil) (or other colour on request) or various examples, observations and analyses

Eng. Gabriele Romagnoli

GENERALI CONDITIONS OF SALE

Transportation costs shall be evaluated with **PAYMENT METHOD:** every offer, according to volume weight and For foreign countries, the payment of the godestination.

COMPLAINTS:

a final deadline of 8 days from receipt of go- exclusive of VAT. ods; we do not accept returned goods unless Note: As our products are subject to continuopreviously authorized by Faraone in carriage us innovation and improvement, design and

Any returned products that should hypothetically arrive to the Faraone company without duction catalogues are purely indicative, theprior authorization will be refused without refore our company reserves the right to make exception and returned to the sender in car- improvements to the products without any pririage collect.

ods is made by bank transfer in advance. Other payment methods will be agreed under the credit insurance.

Any complaint must be sent to Faraone within - VAT: all prices listed in the pricelists are

construction features are subject to change without prior notice. The images in the proor notice. All models and designs are exclusive property of Faraone. No reproduction permitted. All prices are exclusive of VAT, transport and installation.

GRAPHIC DESIGN

Marco Ceci / mcomunicare

COORDINATION Marketing Office of Faraone **TECHNICAL DRAWINGS** Technical department Faraone

PHOTOREALISTIC IMAGES

Stefano Spinosi

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F. +39 0861 781035

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Take care of the people you love.

With the latest generation of Ninfa balustrades.

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