accessori per facciate puntuali

Componenti per vetro architettonico: sistemi di facciata, supporti, viti articolate, pensiline e parapetti.

VETRA

accessories for spider glass

Accessories for architectural glass: façade systems, supports, articulated screws, canopies and balustrades.

introduzione e informazioni generali
introduction and general informations




Vetra system:

L'impiego del vetro in edilizia è sempre più diffuso; facciate strutturali, pensiline, parapetti e altro ancora sono richieste entrate a far parte del quotidiano. Per questo motivo Nuova Oxidal nel 2000 ha presentato la serie Vetra System, una linea che comprende svariati accessori per l'utilizzo architettonico di questo metallo trasparente. Il vetro: un materiale sorprendente. Il suo utilizzo contraddistingue qualsiasi realizzazione rendendola elegante e pulita, tramite le sue diverse varietà si possono ottenere effetti di grande trasparenza, semitrasparenza o di oscuramento totale.
Il vetro può essere utilizzato come materiale di rivestimento e di copertura, come materiale isolante e resistente, o anche come materiale strutturale. Non ci sono limiti al suo impiego.

Per valorizzare un materiale così importante servono accessori pregiati.
Gli accessori Vetra System si contraddistinguono per la cura del design e per l'attento studio delle resistenze meccaniche richieste dalle normative vigenti e sono infatti costantemente sottoposti a test effettuati presso istituti riconosciuti a livello internazionale.
Sono accessori completamente Made in Italy realizzati con materiali di prima qualità quali l'acciaio inox Aisi 316 L, l'unico adatto ad essere utilizzato in qualsiasi realizzazione esterna.

Vetra system:

The use of glass in building is always more diffused; structural glazing, canopies, balusters have become part of our daily work. For these reasons Nuova Oxidal presented in 2000 Vetra System, a range of accessories that include various products for architectural installations with this transparent material.
Glass: what a surprising material! Its use enriches structures with an elegant and clean look, and by various shades it's possible to obtain transparent, semi transparent as well as obscurant effects.
Glass can be employed as coating or covering material, as insulating or resistant material but also as structural material. There are no limits to its use.

To improve the value of such a precious material, precious accessories are required. Vetra System accessories, featuring an accurate care of the design and a careful study of mechanical resistance in compliance with current guidelines. These high quality accessories are completely Made in Italy and consistently tested by internationally acknowledged certification institutes. They are made of first quality materials such as stainless steel Aisi 316 L, the only material suitable for outdoor structures.

Vetra System was launched in 2000 as a range of accessories for punctual structural glazing and has been widening its scope ever since, adding new products to become a complete collection maintaining a constant growth.

Vetra System nata come serie di accessori per facciate strutturali a sospensione puntuale si è presto evoluta: sono stati inseriti nuovi prodotti fino a diventare una serie completa e in continua crescita che comprende supporti, viti articolate, morsetti, accessori per pensiline, accessori per parapetti e svariati prodotti per la realizzazione di qualsiasi struttura vetrata.

Nuova Oxidal, oltre a supportare con la propria esperienza la clientela, può garantire tempistiche di risposta e tempi di consegna brevi grazie alla produzione interna ed ad un magazzino prodotti finiti molto fornito.
L'importante collaborazione che si crea tra cliente e fornitore oltre a permettere di mantenere una visione costantemente aggiornata delle esigenze di mercato rende la serie Vetra System molto dinamica. Spesso, nonostante la vasta gamma di accessori disponibili a catalogo, nasce l'esigenza di realizzare prodotti speciali atti a risolvere le specifiche problematiche, necessità che l'azienda è prontamente in grado di soddisfare diventando vostro *project partner*.

Now the range includes supports, articulated screws, clamps, accessories for canopies, accessories for balusters and other products for the realization of any kind of glass structure.

Nuova Oxidal provides technical supports, real-time solutions and short delivery times thanks to in-site production and to a well-furnished stock of materials. The close relationship between the company and its customers allow a constantly updated vision of the market and its needs and make Vetra System collection extremely dynamic. Often, in addition to the wide range of products available, the company is able to satisfy specific requirements manufacturing customised accessories and thus becoming a real *project partner*.

supports

supports

Tipologie di strutture
Structure types

- A: **Strutture metalliche realizzate da carpenteria, essenzialmente composte da pali o travi in ferro o acciaio.**
- B: **Tensostrutture, tramite le quali è possibile ottenere facciate con un aspetto visivo particolarmente libero e leggero in quanto l'ingombro della struttura è ridotto alle dimensioni del cavo e dalle bielle (distanziale tra cavo e supporto).**
- C: **Strutture miste, dove sono presenti entrambe le tipologie precedentemente descritte.**

- A: Metallic structures carpentry made with steel or iron piles or beams.
- B: Tension or flexible structures, by this type of structure is possible to obtain facade with a visual aspect very light and clear, the dimension of the structure is only the cable and the spacer between cable and supports.
- C: Mixed structure where are used both previous typology of structures.

Supporti:

**Si definiscono supporti gli elementi di connessione tra struttura portante e viti articolate.
I supporti sono disponibili in due diverse versioni con interasse 150 mm, tipo Astra e Aura, e 220 mm, tipo Vega e Vela. Sono realizzati in fusione di acciaio inox Aisi 316 L e garantiscono una portata per carichi combinati di 200 Kgs. per braccio (800 Kgs. per il supporto a 4 bracci).
I valori di resistenza a carico sono stati calcolati in fase di progettazione con sistema di calcolo FEM e successivamente garantiti dai test effettuati da istituti riconosciti a livello internazionale (certificati disponibili a richiesta).**

Gli accessori utilizzati per la realizzazione di facciate strutturali a sospensione puntuale sono sottoposti a combinazioni di carico differenti:

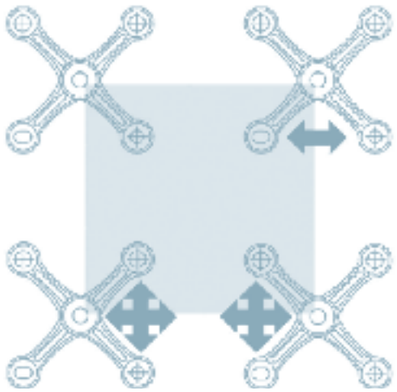
- A: Carichi che possano risultare dalla spinta del vento o dal carico della neve, se si tratta di coperture, che generano uno sforzo perpendicolare al piano del vetro;
- B: Carichi dati dal peso proprio del vetro che genera una forza di taglio sulle viti articolate (rotules) e quindi una forza parallela al piano del vetro sui supporti;
- C: Tensioni aggiuntive date dalle dilatazioni termiche nel caso in cui il sistema di fissaggio sia eccessivamente vincolato. Per questo motivo i supporti presentano forature differenti.

Lo scopo di forature differenziate sui bracci è appunto quello di sopperire alle variazioni e sollecitazioni subite dal vetro oltre a permettere una maggiore possibilità di regolazione in fase di posa. Nello schema vediamo rappresentato la foratura di tipo A, questa presenta in alto a sinistra un foro di diametro 15 mm, che non permette alcun movimento alla vite articolata e che fissa quindi saldamente il vetro alla struttura, presenta poi un foro asolato in alto a destra, che permette lo scorrimento sull'asse orizzontale e in fine in alto due fori di diametro 20 mm che permettono lo scorrimento sia in senso verticale che in senso obliquo. A seconda della posizione del supporto nella vetrata il progettista dovrà indicare le diverse tipologie di foratura. Utilizzando questo sistema si stabilisce la direzione della dilatazione e dello scorrimento del vetro in modo da evitare punti critici di pressione tra le lastrerischiosi per la resistenza dei vetri.

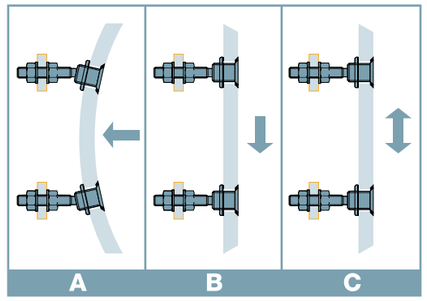
Supports:

Supports are the connection elements between bearing structures and articulated screws. The supports are available with two different dimensions: with 150 mm distance hole, type Astra and Aura, and with 220 mm distance hole, type Vega and Vela. All models are realized by lost-wax casting of stainless steel Aisi 316 L and guarantee a load capacity of 200 Kgs per arm (800 Kgs. for the four-arm support). The value of resistance is calculated with FEM calculation program during projection, and confirmed by testing carried out by internationally acknowledged institutes. (certificates are available on request).

Foratura tipo A
Drilling type A



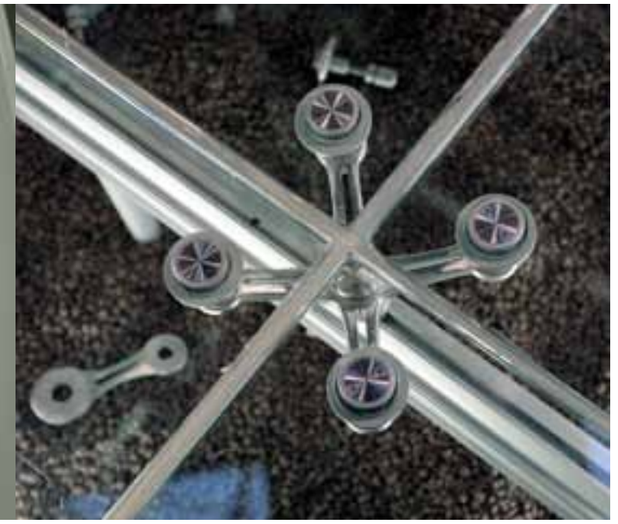
Combinazioni di carico
Combinations of load



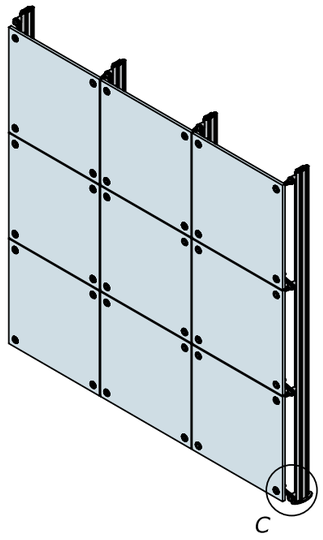
The accessories used for the realization of punctual structural glass façades are subject to different load combinations:

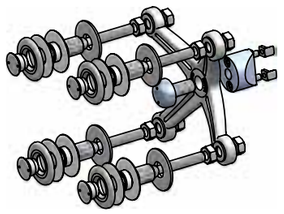
- A: Load charges that could be determined by wind pressure and snow load, in case of rooftops and coverings, that create a perpendicular stress on the glass pane;
- B: Charges created by the glass weight that gives a shearing force on the articulated screws (rotules) and so a parallel stress on the glass pane;
- C: Additional tension due to thermic expansion in case the fixing system is too constrained. For this reason the support has different types of hole.

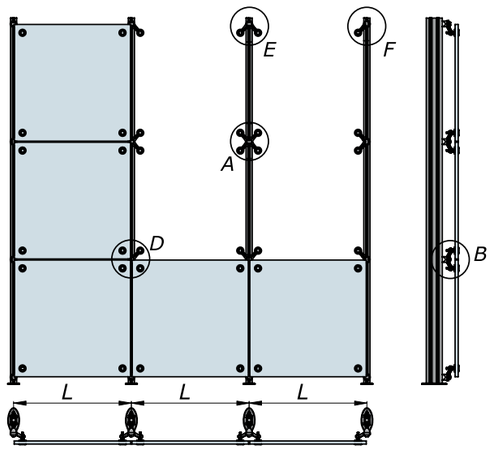
For this reason the support has different types of holes. The aim of the different drilling typologies on the support arm is to absorb the various expansion and stress of the glass and further to give more regulation during the installation. The diagram illustrates drilling type A, the top left arm has a 15 mm diameter hole that doesn't allow any movement of the articulated screw and fix strongly the glass to the structure; the top right arm has a slot hole that allows the sliding on the horizontal axis; the two bottom arms have 20 mm diameter holes that allow the expansion on the vertical and oblique axis. According to the position of the support in the facade the project planner should indicate the different drilling typology. Using this method the direction of the expansion is fixed thus avoiding the creation of critical points of pressure between glass sheets that can be really dangerous for glass resistance.

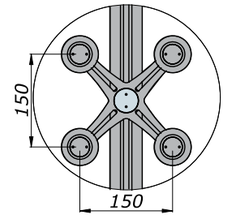


supporti
supports

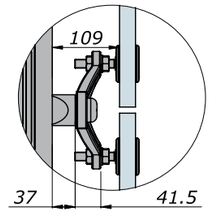




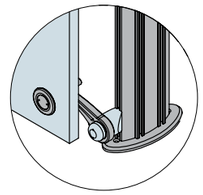




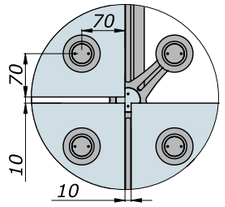
Dettaglio A
Detail A



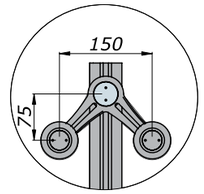
Dettaglio B
Detail B



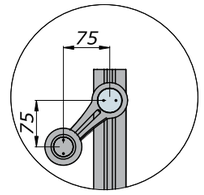
Dettaglio C
Detail C



Dettaglio D
Detail D



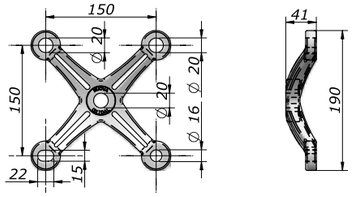
Dettaglio E
Detail E



Dettaglio F
Detail F

supporti: interasse 150
supports: distance hole 150

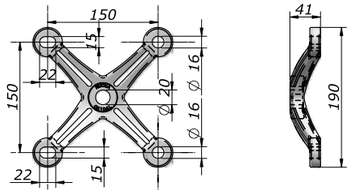
astra A



Supporto a quattro bracci (tipo A)
Four arms support (type A)

V-ASTRA-A

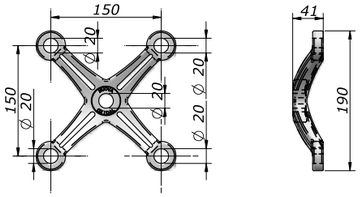
astra B



Supporto a quattro bracci (tipo B)
Four arms support (type B)

V-ASTRA-B

astra C

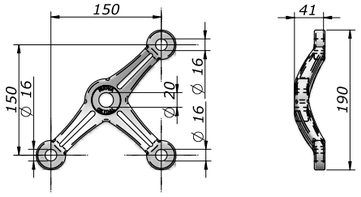


Supporto a quattro bracci (tipo C)
Four arms support (type C)

V-ASTRA-C

supporti: interasse 150
supports: distance hole 150

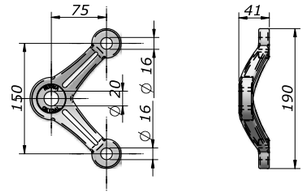
astra 3



Supporto a tre bracci
Three arms support

V-ASTRA-3

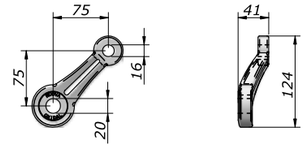
astra 2



Supporto a due bracci a 90°
Two arms support at 90°

V-ASTRA-2

astra 1

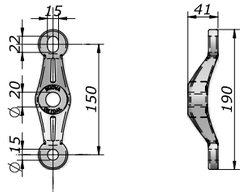


Supporto a un braccio
One arm support

V-ASTRA-1

supporti: interasse 150
supports: distance hole 150

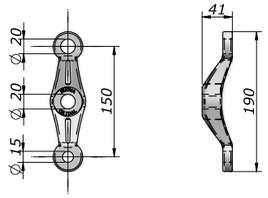
aura A



Supporto a due bracci a 180° (tipo A)
Two arms support at 180° (type A)

V-AURA-A

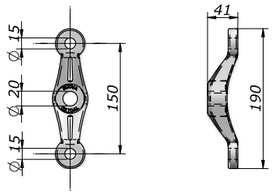
aura B



Supporto a due bracci a 180° (tipo B)
Two arms support at 180° (type B)

V-AURA-B

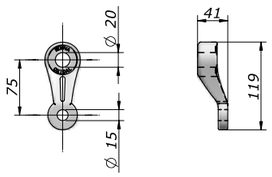
aura C



Supporto a due bracci a 180° (tipo C)
Two arms support at 180° (type C)

V-AURA-C

aura 1

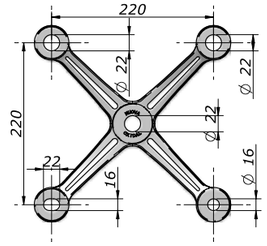


Supporto a un braccio
One arm support

V-AURA-1

supporti: interasse 220
supports: distance hole 220

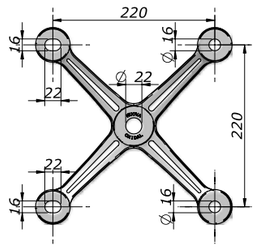
vega A



Supporto a quattro bracci (tipo A)
Four arms support (type A)

V-VEGA-A

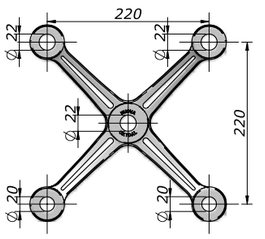
vega B



Supporto a quattro bracci (tipo B)
Four arms support (type B)

V-VEGA-B

vega C

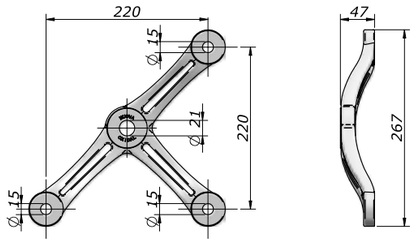


Supporto a quattro bracci (tipo C)
Four arms support (type C)

V-VEGA-C

supporti: interasse 220
supports: distance hole 220

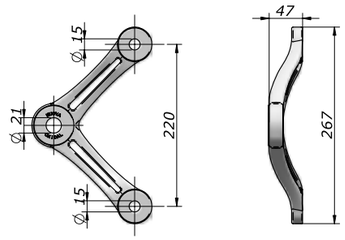
vega 3



Supporto a tre bracci
Three arms support

V-VEGA-3

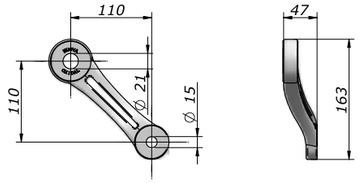
vega 2



Supporto a due bracci a 90°
Two arms support at 90°

V-VEGA-2

vega 1

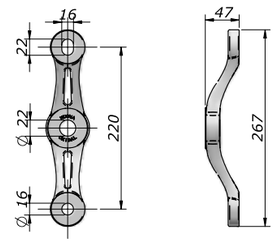


Supporto a un braccio
One arm support

V-VEGA-1

supporti: interasse 220
supports: distance hole 220

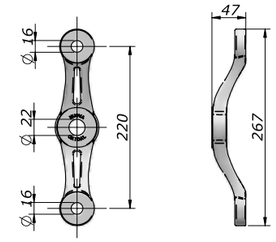
vela A



Supporto a due bracci a 180° (tipo A)
Two arms support at 180° (type A)

V-VELA-A

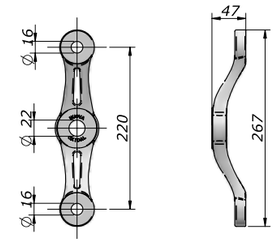
vela B



Supporto a due bracci a 180° (tipo B)
Two arms support at 180° (type B)

V-VELA-B

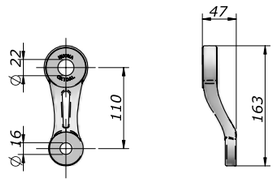
vela C



Supporto a due bracci a 180° (tipo C)
Two arms support at 180° (type C)

V-VELA-C

vela 1



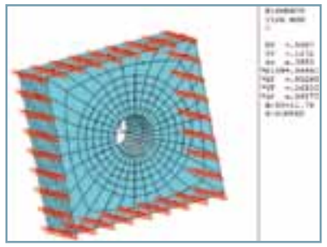
Supporto a un braccio
One arm support

V-VELA-1

articulated screws

viti articolate

VETRA



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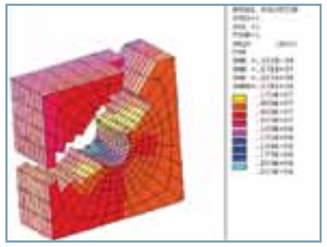

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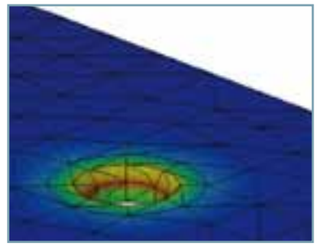

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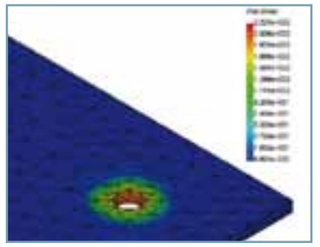
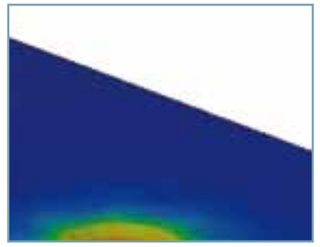


3



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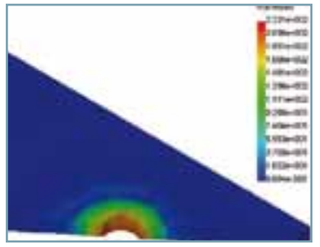


3

1 **Andamento delle tensioni in un foro cilindrico quando la vite articolata tocca all'interno del foro, sono evidenti gli strati di sovratensione che possono creare la rottura della lastra**

2 **Simulazione tensioni con foro svasato**

3 **Simulazione tensioni con foro diritto**

1 Tension flow in a cylindrical hole when the articulated screw touches the inside edge of the hole, the extra-preassures conditions that could cause the breaking of the glass are clear

2 Tension simulation with countersunk hole

3 Tension simulation with cylindrical hole

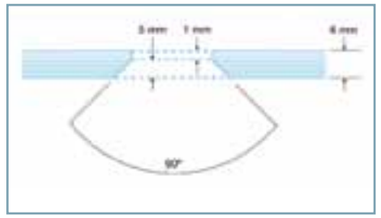
Viti articolate:

Si definiscono viti articolate i perni di connessione del vetro al supporto.
Il principio di funzionamento delle viti articolate (rotules) è uguale per tutte e consiste in un giunto sferico e si differenzia in base alla tipologia di vetro con cui verranno utilizzate.
Sono completamente realizzate da tornitura di acciaio inox Aisi 316 L che garantisce un'elevata robustezza.
Ogni vite ha una portata di oltre 300 Kgs, valore garantito dai test effettuati (certificati disponibili a richiesta). Nella gamma sono inoltre presenti varie viti fisse, utilizzate per la realizzazione di parapetti o strutture fisse interne.
La scelta della vite articolata da utilizzare avviene considerando, oltre al tipo di vetro, la lavorazione da effettuare sulla lastra.
È possibile realizzare forature diritte o svasate, la differenza sostanziale tra le due è il tipo di vincolo che si crea sulla lastra.

Dagli schemi sopra riportati si evidenzia che l'andamento delle tensioni intorno al foro svasato e al foro cilindrico sono simili. La differenza risiede nel fatto che se la lastra di vetro ha una foratura svasata si ha un fenomeno di sovratensione all'interno dello svaso con possibile rottura della lastra, mentre nel caso di foro cilindrico, è possibile un ulteriore movimento di scorrimento del vetro all'interno del foro, aumenta però la possibilità di creare tensioni tra lastra e lastra e quindi il rischio di rottura multipla; per questo motivo si ritiene corretto l'uso di rotule con foro cilindrico solo nelle realizzazioni di coperture o con vetri installati orizzontalmente.
In questo caso, infatti, in seguito a carichi perpendicolari al vetro la lastra si dilaterà solo verso il suo stesso centro senza creare sovratensioni alla struttura o alle lastre vicine.

Lo spessore minimo di vetro utilizzabile con foro svasato è 8 mm in quanto l'utilizzo di un vetro di spessore inferiore crea punti spigolosi che rendono la lastra soggetta a facili rotture (rif. schema seguente). Con il foro cilindrico è possibile utilizzare vetri a partire da 6 mm di spessore.

Tutti i vetri impiegati devono essere temperati o induriti e preferibilmente sottoposti a controlli HST (Heat Soak Test - processo utilizzato per minimizzare il rischio di rottura spontanea del vetro dovuta all'espansione del solfuro di nickel in seguito a sbalzi di temperatura).



Articulated screws:

Articulated screws are the connection between supports and glass.
The operating principle of articulated screws (rotules) is the same for all kinds and it consists on a spherical joint, that changes according to the glass used.
Articulated screws are realized by turning of stainless steel Aisi 316 L that grant an high mechanical strength, each screw can support over 300 Kgs, as certified by testing (certificates available on request). The range includes also some fixed screws used for the realization of stairs, balustrades or indoor fixed glass structures.
The choice of articulated screws will depend on the type of glass as well as on the role required for screws on the glass sheet.
It's possible to make straight or countersunk holes, depending on the type of constraint it gives to the glass.

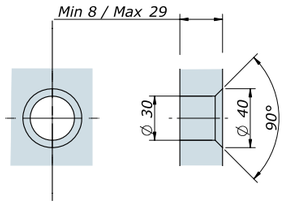
The above simulation scheme shows that the tension flows are similar in both types of holes.
The difference is that when there is an over tension in the glass sheet with countersunk hole there could be a break of the glass.
When there is an over tension in the cylindrical hole there is the possibility of a further sliding movement of the glass but that could give also over tension between two or more glass sheets and so cause the breaking of more than one glass.
For this reason it is better to use cylindrical hole only for roof and covering or for horizontal glasses, in this case in fact the glass could support only perpendicular load so it will have only expansion towards its self centre without giving any over tension to other glass sheets.

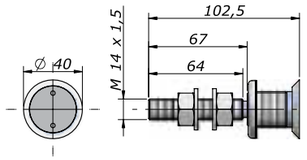
The minimum thickness that can be used with countersunk hole is 8 mm, the use of lower thickness gives critical corner points that subject the glass sheet to easy breaking (following scheme). With cylindrical hole it's possible to use glass starting from 6 mm.

All the glass used have to be tempered or hardened and preferably subjected to HST test (Heat Soak Test - process used to minimize the risk of spontaneous breaking of the glass due to the expansion of nickel sulphide following a sudden change in temperature).

viti articolate
articulated screws

era A

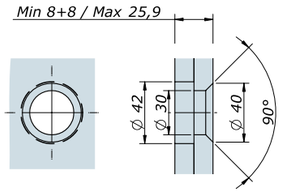



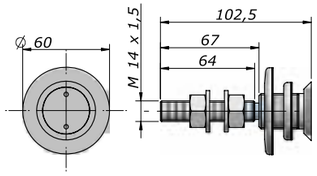


Vite articolata per vetro monolitico
Articulated screw for monolithic glass

V-ERA-A

era B

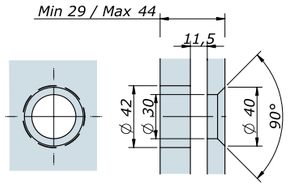



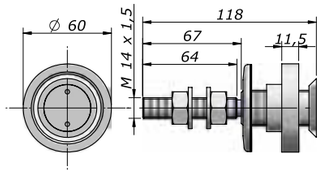


Vite articolata per vetro stratificato
Articulated screw for laminated glass

V-ERA-B

era C

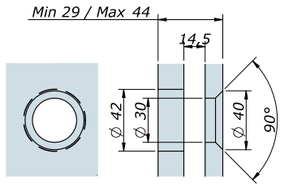



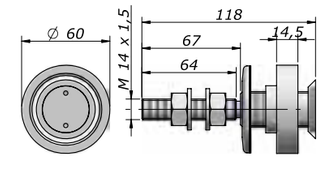


Vite articolata per vetro camera da 12 mm
Articulated screw for insulating glass

	spessore interno internal thickness	spessore camera insulating thickness	spessore esterno external thickness		spessore interno internal thickness	spessore camera insulating thickness	spessore esterno external thickness
V-ERA-C	min. 10 - max. 23	12	min. 8 - max 13	V-ERA-C-1	min. 10 - max. 23	12	min. 18 - max 23

era J

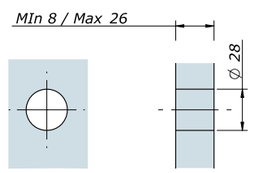


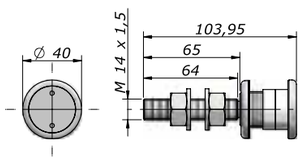
Vite articolata per vetro camera da 15 mm
Articulated screw for insulating glass

	spessore interno internal thickness	spessore camera insulating thickness	spessore esterno external thickness		spessore interno internal thickness	spessore camera insulating thickness	spessore esterno external thickness
V-ERA-J	min. 6 - max. 20	15	min. 8 - max 13	V-ERA-J-1	min. 6 - max. 20	15	min. 18 - max 23

viti articolate
articulated screws

era D

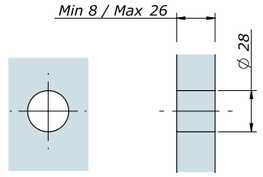



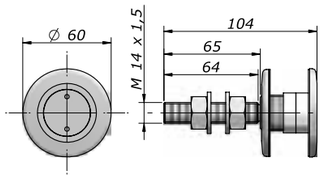


Vite articolata con ghiera piatta da diametro 40 mm
Articulated screw with flat ring of 40 mm diameter

V-ERA-D

era E

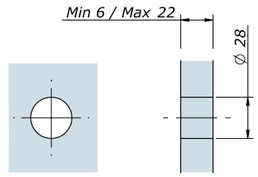



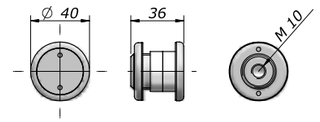


Vite articolata con ghiera piatta da diametro 60 mm
Articulated screw with flat ring of 60 mm diameter

V-ERA-E

era F

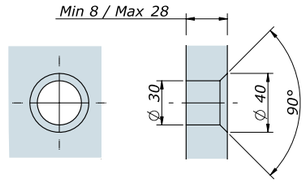



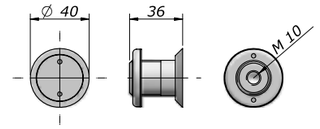


Vite fissa con ghiera piatta diametro 40 mm
Fixed screw with flat ring of 40 mm diameter

V-ERA-F

era G



Vite fissa con ghiera svasata
Fixed screw with countersunk ring

V-ERA-G

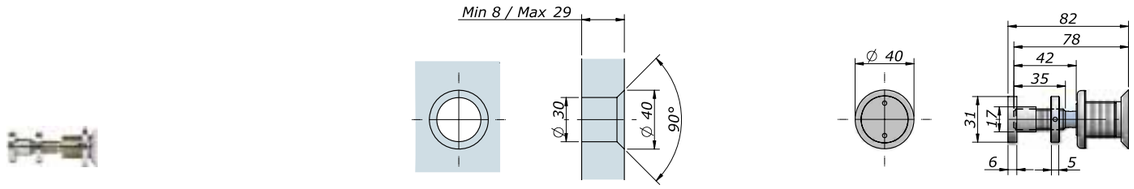
viti articolate
articulated screws

era H

Vite fissa con ghiera piatta diametro 60 mm
Fixed screw with flat ring of 60 mm diameter

V-ERA-H

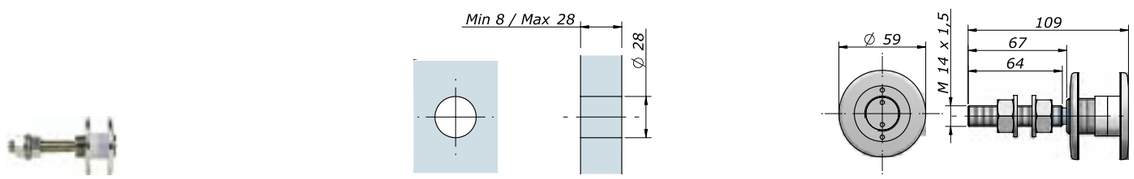
era K



Vite articolata con dado piatto cieco per pareti interne
Articulated screw with flat cup nut for inside wall

V-ERA-K

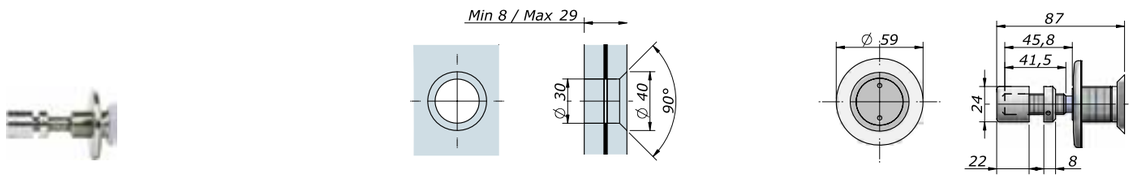
era L



Vite articolata con fissaggio frontale
Articulated screw with fixing from the front

V-ERA-L

era M

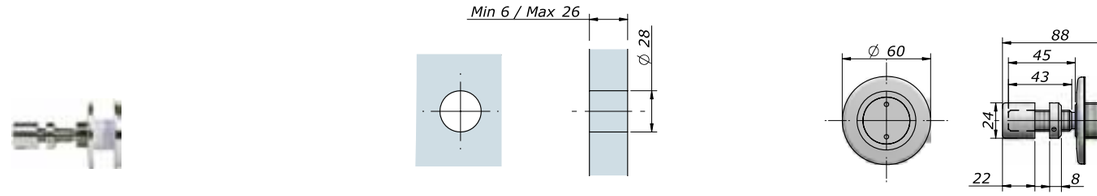


Vite articolata per pensiline con ghiera svasata
Articulated screw for canopy with countersunk ring

V-ERA-M

viti articolate
articulated screws

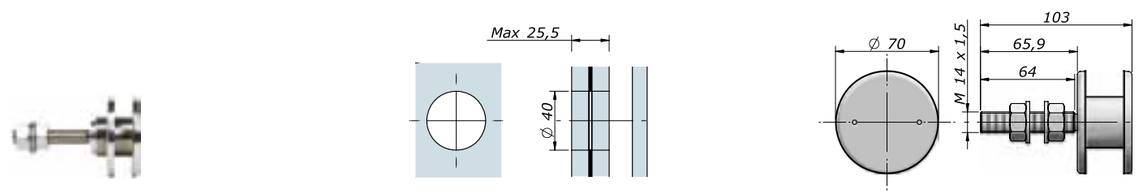
era N



Vite articolata per pensiline con ghiera piatta diametro 60 mm
Articulated screw for canopy with flat ring 60 mm diameter

V-ERA-N

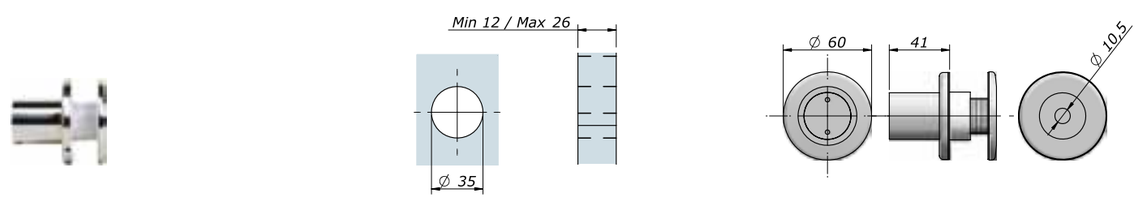
era O



Vite articolata per vetro camera
Articulated screw for insulating glass

V-ERA-O

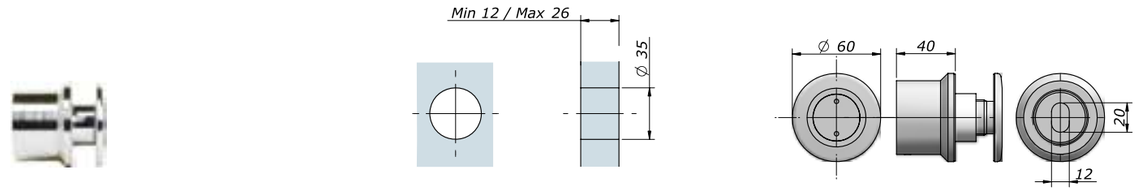
era P



Vite fissa per fissaggio a parete con distanziale h. 40 mm
Fixed screw for fixing to the wall with spacer 40 mm

V-ERA-P

era Q

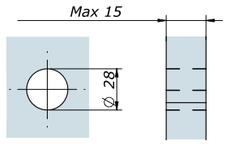


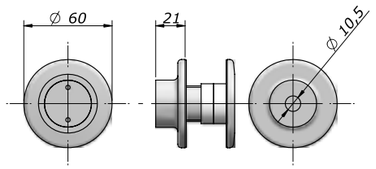
Vite fissa per fissaggio regolabile a parete
Fixed screw with adjustable fixing to the wall

V-ERA-Q

viti articolate
articulated screws

era R 15

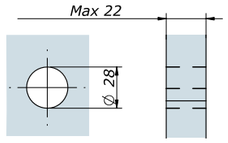


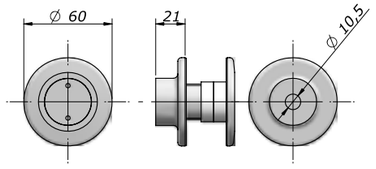


Vite fissa per fissaggio a parete con distanziale h. 20 per spessore fino a 15 mm
Fixed screw for fixing to the wall with spacer 20 mm maximum thickness 15 mm

V-ERA-R-15

era R 22

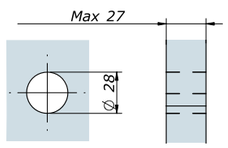


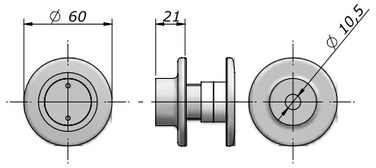


Vite fissa per fissaggio a parete con distanziale h. 20 per spessore fino a 22 mm
Fixed screw for fixing to the wall with spacer 20 mm maximum thickness 22 mm

V-ERA-R-22

era R 27

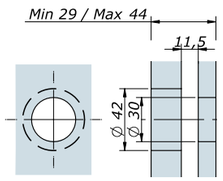


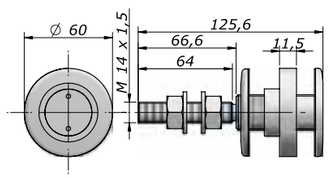


Vite fissa per fissaggio a parete con distanziale h. 20 per spessore fino a 27 mm
Fixed screw for fixing to the wall with spacer 20 mm maximum thickness 27 mm

V-ERA-R-27

era S



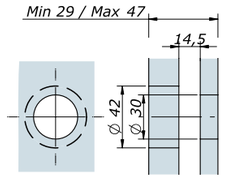


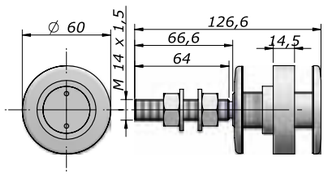
Vite articolata per vetro camera con ghiera piatta
Articulated screw for insulating glass with flat ring

	spessore interno internal thickness	spessore camera insulating thickness	spessore esterno external thickness		spessore interno internal thickness	spessore camera insulating thickness	spessore esterno external thickness
V-ERA-S	min. 10 - max. 23	12	min. 11 - max 16	V-ERA-S-1	min. 10 - max. 23	12	min. 17 - max 22

viti articolate
articulated screws

era T

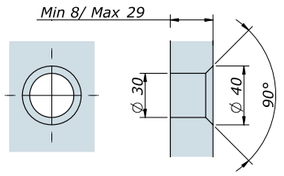


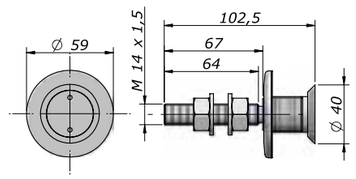


Vite articolata per vetro camera con ghiera piatta
Articulated screw for insulating glass with flat ring

	spessore interno internal thickness	spessore camera insulating thickness	spessore esterno external thickness		spessore interno internal thickness	spessore camera insulating thickness	spessore esterno external thickness
V-ERA-T	min. 6 - max. 20	15	min. 11 - max 16	V-ERA-T-1	min. 6 - max. 20	15	min. 17 - max 22

era U

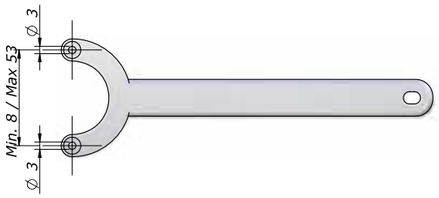




Vite articolata per vetro monolitico e stratificato
Articulated screw for monolithic and insulating glass

V-ERA-U

AC 5



Chiave per serie Era
Key for Era

V-AC-5

glass fin

glass fin

VETRA

glass fin
glass fin

foto fornite da: aiola design srl

Glass fin:

Glass Fin o pinna in vetro, così vengono definite le lastre di vetro utilizzate come struttura portante o come irrigidimento delle facciate.
Il sistema consiste in una lastra di vetro posizionata perpendicolarmente rispetto al piano frontale della struttura ed utilizzata per l'aggancio dei supporti a sostegno delle lastre in facciata o come irrigidimento della stessa.

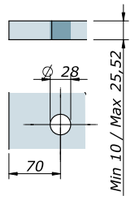
Gli accessori della serie glass fin attualmente sono disponibili solo per facciate con glass fin costituito da un'unica lastra a tutta altezza.
I supporti sono disponibili singoli e doppi, con fissaggio a vetro e a muro, con ghiera piatta o svasata. Tutta la serie è realizzata da lavorazione meccanica di acciaio inox Aisi 316 L.

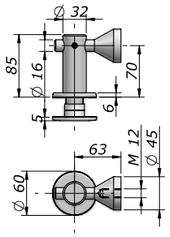
Glass fin:

Glass fin is the definition of glass sheets used as bearing structure or in the strengthening of a façade.
The system consists in a glass sheet placed in perpendicular position respect to the frontal plane of the structure and used to fix the supports accessories for the glass façade or to strengthen it.

The glass fin accessories currently available only for façade where the glass fin is made by only one full height glass. The supports are available single or double, with attack to wall or glass, with countersunk or flat ring.
All the range is made by mechanical working of stainless steel Aisi 316 L.

fin A

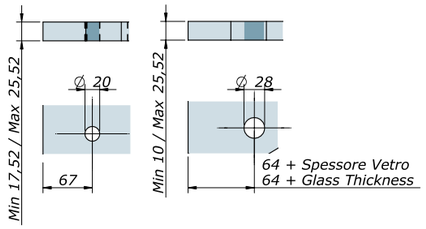


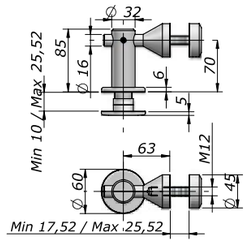


Fissaggio singolo vetro muro con borchia piatta
Single connection wall-glass with flat ring

V-FIN-A

fin B

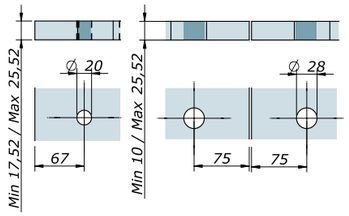


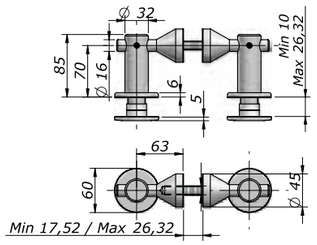


Fissaggio singolo vetro vetro con borchie piatte
Single connection glass-glass with flat ring

V-FIN-B

fin C

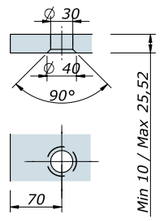


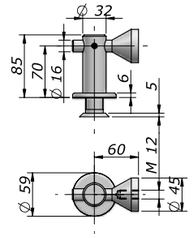


Fissaggio a tre vie vetro vetro con borchie piatte
Double connection glass-glass with flat ring

V-FIN-C

fin D

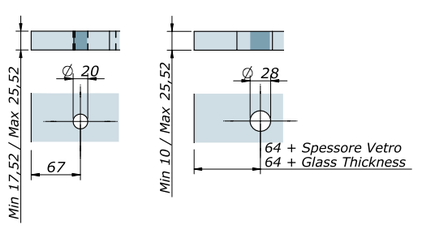


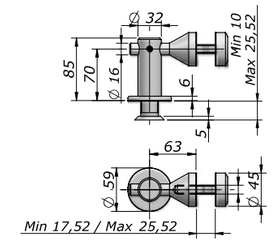


Fissaggio singolo vetro muro con borchia svasata
Single connection wall-glass with countersunk ring

V-FIN-D

fin E

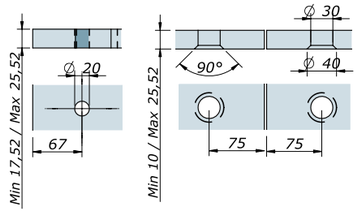


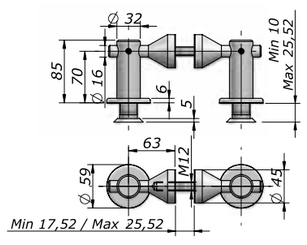


Fissaggio singolo vetro vetro con borchie svasate
Single connection glass-glass with countersunk ring

V-FIN-E

fin F





Fissaggio a tre vie vetro vetro con borchie svasate
Double connection glass-glass with countersunk ring

V-FIN-F




Nemo:

Nemo è una serie di morsetti che consente l'utilizzo di vetri senza foratura.
Questi supporti sono indicati per il rivestimento di facciate, scale ed ascensori panoramici.
Nemo permette di ridurre notevolmente i costi di progettazione, realizzazione ed installazione pur mantenendo un aspetto estetico della facciata molto pulito ed elegante.
I supporti sono realizzati in alluminio e permettono l'utilizzo di lastre di medie dimensioni, la portata di ogni morsetto è di 100 Kg.

I morsetti si distinguono i due diverse tipologie di aggancio: verticale che, con un ingombro minimo tra vetro e struttura, è indicato per angoli di 90°, e orizzontale che permette, oltre a facciate diritte, la realizzazione di facciate curve senza l'utilizzo di vetri curvati.

A catalogo sono disponibili morsetti per tre differenti spessori, è possibile, tramite l'aggiunta delle apposite guarnizioni, regolare lo spessore di circa -2 mm; in alternativa sono fornibili a richiesta gli appositi blocchetti adattatori per qualsiasi spessore.

Lo schema evidenzia il funzionamento del sistema di sostegno: il corpo del morsetto sostiene il peso della lastra superiore e fissa, tramite il coperchio, la lastra inferiore.

Nemo:

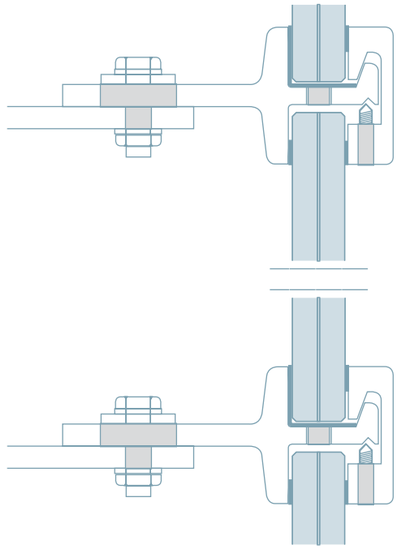
Nemo is a clamp series that allows the use of glass sheets without cut outs or holes. These supports are particularly indicated for covering of façades, panoramic stairs or elevators. Nemo considerably reduces the cost of projection, realization and installation while preserving a clean and elegant aesthetic look of the façade. The supports are realized in aluminium and they allow the use of medium glass sheet size, the load capacity of each clamp is 100 kg.

The clamps are distinguished in two different types of attacks: the vertical one, that has a minimum size between glass and structure and is indicated for 90° corner realization, and the horizontal one, that allows also the realization of curved façades without using bended glass.

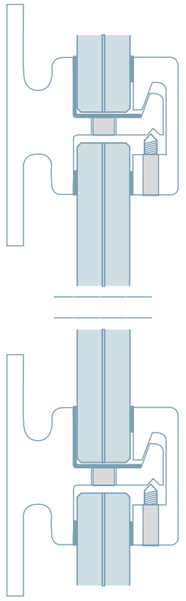
On the catalogue clamps in three different thicknesses are available. It's possible to adjust of about -2 mm the thickness indicated by the jointing of the apposite silicon gasket, alternatively, on request, the adaptors blocks for any thickness can be supplied.

The scheme shows the functioning system of the supports: the body of the clamp supports the top glass and fixes the bottom glass by the cover.

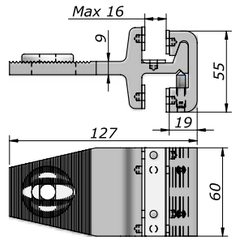
Attacco orizzontale
Horizontal attack



Attacco verticale
Vertical attack



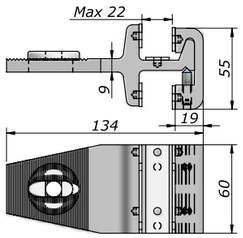
nemo A



Morsetto con aggancio orizzontale fino a 16 mm
Clamp with horizontal attack till 16 mm

argento/silver	crom. sat/chro. mat
V-NEMO-A-A	V-NEMO-A-I

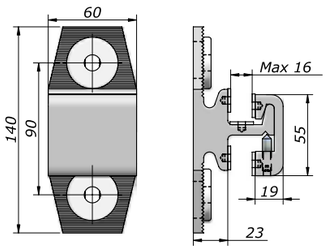
nemo B



Morsetto con aggancio orizzontale fino a 22 mm
Clamp with horizontal attack till 22 mm

argento/silver	crom. sat/chro. mat
V-NEMO-B-A	V-NEMO-B-I

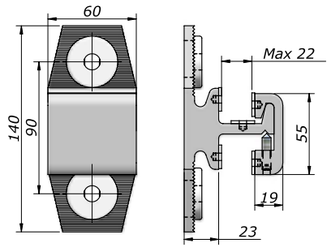
nemo C



Morsetto con aggancio verticale fino a 16 mm
Clamp with vertical attack till 16 mm

argento/silver	crom. sat/chro. mat
V-NEMO-C-A	V-NEMO-C-I

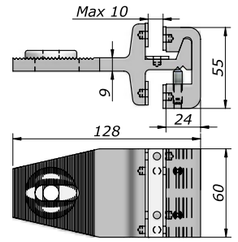
nemo D



Morsetto con aggancio verticale fino a 22 mm
Clamp with vertical attack till 22 mm

argento/silver	crom. sat/chro. mat
V-NEMO-D-A	V-NEMO-D-I

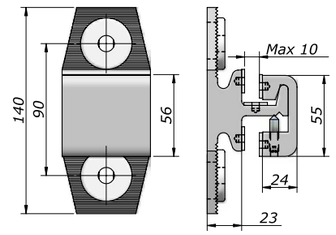
nemo E



Morsetto con aggancio orizzontale fino a 10 mm
Clamp with horizontal attack till 10 mm

argento/silver	crom. sat/chro. mat
V-NEMO-E-A	V-NEMO-E-I

nemo F



Morsetto con aggancio verticale fino a 10 mm
Clamp with vertical attack till 10 mm

argento/silver	crom. sat/chro. mat
V-NEMO-F-A	V-NEMO-F-I

light light

VETRA

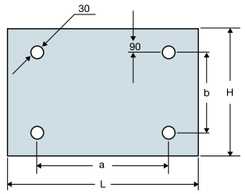
Light:

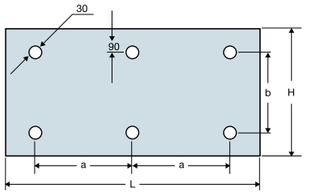
Light è la linea di accessori per pensiline realizzata in acciaio inox Aisi 316 L, studiata in modo da riuscire a coniugare le esigenze di resistenza meccanica ad una buona linea estetica.
La gamma comprende, oltre ai supporti a muro e a vetro, tappi che consentono la copertura dei tasselli di fissaggio e specifiche viti articolate le cui linee si sposano perfettamente con il resto degli accessori. L'assenza di bulloni e viti a vista dona a tutta la struttura un aspetto molto pulito e differenzia la serie Light dagli altri prodotti presenti sul mercato.

Light:

Light is the series of accessories for canopies realized in stainless steel Aisi 316 L, designed to wed aesthetic and mechanical needs. More over wall and glass attacks, the range includes cups to cover the fixing screws anchor and specific articulated screws that can be perfectly combined with the support.
The absence of nuts and screws in sight gives to all the structure a clean aspect and differentiates Light series from the other products available on the market.

Dimensionamento vetro / Glass dimensioning





Esempi di dimensionamento
Examples of dimensioning

Lastre con 4 fori / Glass with 4 holes

L	H	a	b
1200	800	1000	600
1500	1050	1200	850
1800	1200	1300	1000
800	1200	600	1000
1050	1500	800	1250

Lastre con 6 fori / Glass with 6 holes

L	H	a	b
2000	1200	900	1000
2500	1200	1100	1000
3200	1200	1300	1000
3200	1500	1300	1200

Tipologie di lastre:

Il dimensionamento delle lastre dipende da vari fattori:

- **Dal numero di agganci a vetro: è possibile realizzare lastre con quattro o più punti di aggancio, l'aggiunta di ulteriori attacchi permette di diminuire la freccia di flessione della lastra di vetro e quindi di aumentarne la resistenza;**
- **Dalla posizione dei punti di fissaggio che influisce, come per il numero degli attacchi, sulla freccia di flessione della lastra e quindi sulla sua resistenza;**
- **Dalla resistenza a carico richiesta dalla normativa.**

In base a questi fattori vanno calcolate le dimensioni e lo spessore del vetro, per tutte le pensiline è consigliato l'utilizzo di vetro stratificato di almeno 10+10 mm composto da due temperati o da una lastra temperata ed una indurita e di attenersi alle tabelle riportate per quanto riguarda le dimensioni massime.
I nostri supporti sono sufficientemente dimensionati e garantiscono una portata di 150 Kg per punto di aggancio ma è fondamentale l'utilizzo di tasselli e viti di fissaggio adeguati a sorreggere il carico della struttura, sempre considerando i carichi richiesti dalla normativa.

Plate types:

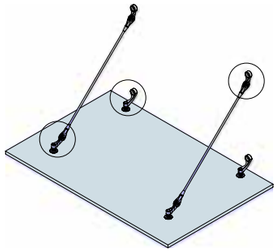
The dimension of the glass plates depends on several factors:

- The number of attacks on glass; it is possible to realize canopies with four or more fixing points, the addition of further attacks reduces glass deflection and increases glass resistance.
- The position of the fixing point that influences glass deflection and its resistance as for the additional number of attacks.
- The load resistance required by guidelines.

Depending on these factors, glass dimensions and thickness have to be calculated. Recommended for all canopies the use of laminated glass of at least 10+10 mm composed by two tempered glasses or one tempered and one hardened glass. Diagrams illustrate maximum recommended dimensions of glass. Our supports are strong enough and can grant a load capacity of 150 Kgs per glass attack but it's really important to use screws and screw anchors suitable to supports, weight of the structure and the load charge in compliance with guidelines.

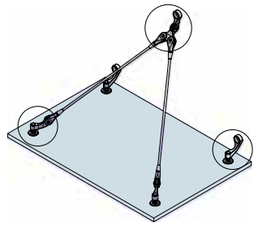
Esempi di installazioni
Installation solutions examples

Pensilina singola standard
Single standard canopy



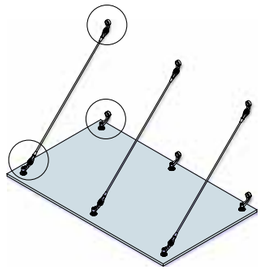
Light 1 Light 2 Light 4

Pensilina singola con tiranti incrociati
Cross rod single canopy



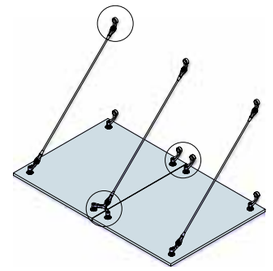
Light 1 Light 2 + Light 5 Light 4

Pensilina singola con tirante di supporto centrale
Single canopy with additional central rod



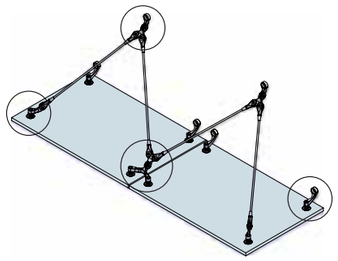
Light 1 Light 2 Light 4

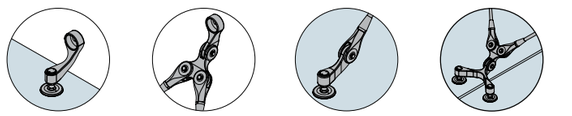
Pensilina doppia standard
Double standard canopy



Light 1 Light 2 Light 4

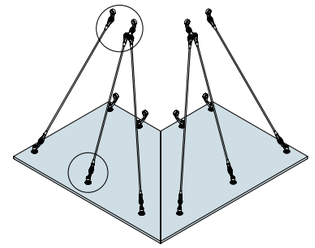
Pensilina doppia con tiranti incrociati
Cross rod double canopy

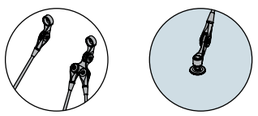




Light 1 Light 2 + Light 5 Light 4 Light 3 + Light 5

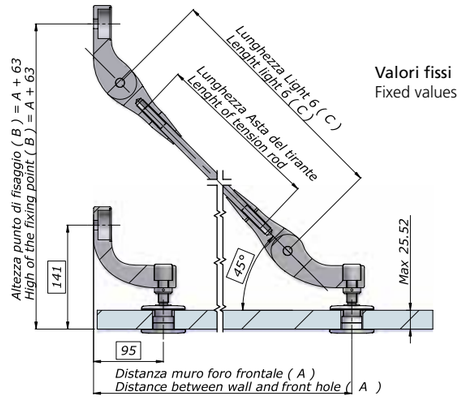
Pensilina angolare
Corner canopy





Light 4 + Light 5 Light 4

Dimensionamento tirante
Rod dimensioning



Spessore consigliato:
Temperato 10+
Indurito 10 (pvb 1,52)
oppure Temperato 10+
Temperato 10 (pvb 1,52)

Advised thickness:
Tempered 10+ Hardened 10 (pvb 1,52) or Tempered 10+ Tempered 10 (pvb 1,52)

Il tirante è fornito a misura. La lunghezza viene calcolata di volta in volta rispettando gli schemi di calcolo riportati in seguito. L'inclinazione della struttura è regolabile agendo sulla filettatura del tirante destra e sinistra di 3 cm (1,5 cm per lato) e tramite le viti articolate che permettono la regolazione dell'altezza. L'inclinazione massima ammissibile con questo sistema di calcolo è di 5°. Nel caso in cui venga richiesta un'inclinazione superiore, il cavo deve essere calcolato appositamente.

Tension rod is supplied on dimension. The length is calculated every time according to the quoted schemes. The inclination of the structure is adjustable working on the 3 cm of left and right threat (1,5 cm each side) present on the rod, and by the articulated screws that allow the regulation of the height. Maximum inclination admissible with this calculation system is 5°, when higher inclination is requested, the rod has to be specifically calculated.

Calcolo tirante
Rod calculation

Distanza foro fissaggio frontale da muro / Distance from frontal fixing point to wall

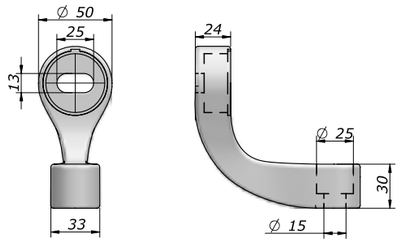
altezza di fissaggio tirante / height of rod fixing point

	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
600	631	665	701	738	777	817	–	–	–	–	–	–	–	–	–	–	–	–	–
650	670	702	736	772	809	847	887	928	–	–	–	–	–	–	–	–	–	–	–
700	710	740	772	807	842	879	918	957	997	–	–	–	–	–	–	–	–	–	–
750	–	780	810	843	877	913	950	988	1027	1067	–	–	–	–	–	–	–	–	–
800	–	–	850	881	914	948	984	1020	1058	1097	1137	1141	–	–	–	–	–	–	–
850	–	–	–	920	951	984	1019	1054	1091	1129	1168	1207	1247	1288	–	–	–	–	–
900	–	–	–	–	990	1022	1055	1089	1125	1162	1199	1238	1277	1317	1358	–	–	–	–
950	–	–	–	–	1030	1060	1092	1126	1160	1196	1232	1270	1308	1347	1387	1428	1496	–	–
1000	–	–	–	–	1070	1100	1131	1163	1196	1231	1266	1303	1340	1379	1417	1457	1497	1538	–
1050	–	–	–	–	–	1140	1170	1201	1233	1267	1301	1337	1374	1411	1449	1488	1527	1567	1608
1100	–	–	–	–	–	–	1210	1240	1271	1304	1338	1372	1408	1444	1481	1519	1558	1597	1637
1150	–	–	–	–	–	–	–	1280	1310	1342	1374	1408	1443	1478	1515	1552	1590	1628	1667
1200	–	–	–	–	–	–	–	1320	1350	1380	1412	1445	1479	1514	1549	1585	1623	1660	1699
1250	–	–	–	–	–	–	–	–	1390	1420	1451	1483	1516	1550	1584	1620	1656	1693	1731
1300	–	–	–	–	–	–	–	–	–	1460	1490	1521	1553	1586	1620	1655	1691	1727	1764
1350	–	–	–	–	–	–	–	–	–	–	1530	1560	1591	1624	1657	1691	1726	1761	1797
1400	–	–	–	–	–	–	–	–	–	–	–	1600	1630	1662	1694	1728	1762	1796	1835
1450	–	–	–	–	–	–	–	–	–	–	–	–	1670	1701	1732	1765	1798	1832	1867
1500	–	–	–	–	–	–	–	–	–	–	–	–	–	1740	1771	1803	1835	1869	1903
1550	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1810	1841	1873	1906	1939
1600	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1850	1880	1912	1944	1977

NB:
I valori evidenziati sono i valori con inclinazione compresa tra 40° e 50°, ottimali per il funzionamento del sistema, oltre a tali valori il tirante potrebbe recare sovra tensioni alla lastra o al muro. Non è ammesso l'utilizzo del tirante per i casi non valorizzati.

The evidenced values are included between an inclination of 40° and 50°, these values are optimal for system functioning, over these values the rod can give extra tension to the glass and to the wall. For not quoted cases the use of the rod is not admitted.

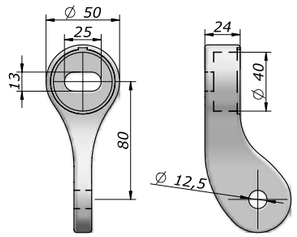
light 1



Attacco a muro inferiore
Bottom attack to wall

V-LIGHT-1

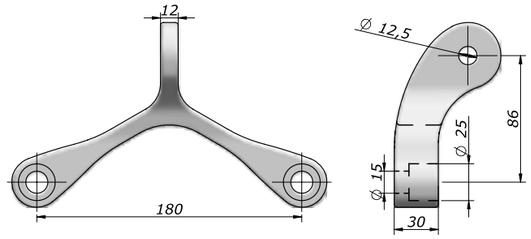
light 2



Attacco a muro superiore
Top attack to wall

V-LIGHT-2

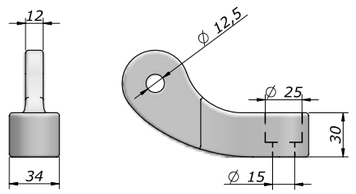
light 3



Attacco a vetro multiplo
Double glass attack

V-LIGHT-3

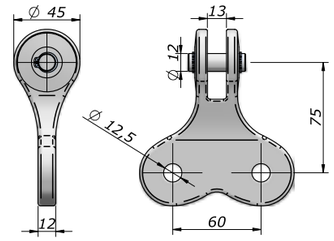
light 4



Attacco a vetro singolo
Single glass attack

V-LIGHT-4

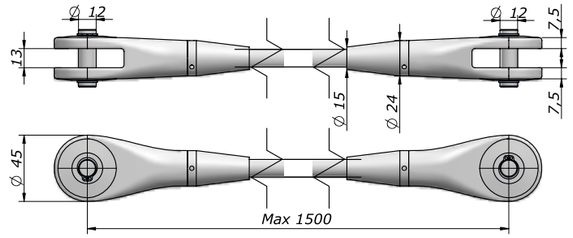
light 5



Attacco a muro multiplo
Double wall attack

V-LIGHT-5

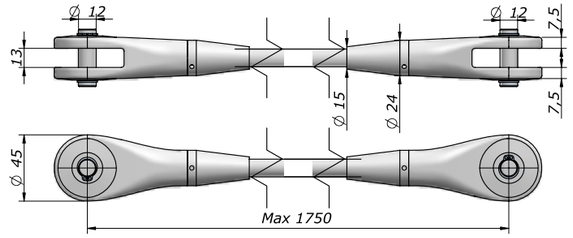
light 6-150



Tirante con forcelle - lungh. da 0 a 1500 mm
Tension rod with forks - lenght from 0 to 1500 mm

V-LIGHT-6-150

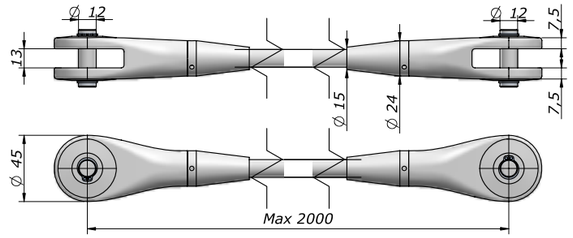
light 6-175



Tirante con forcelle - lungh. da 1501 a 1750 mm
Tension rod with forks - lenght from1501 to 1750 mm

V-LIGHT-6-175

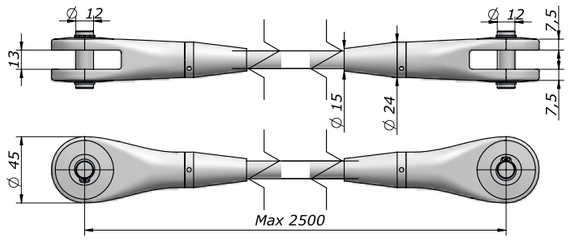
light 6-200



Tirante con forcelle - lungh. da 1751 a 2000 mm
Tension rod with forks - lenght from 1751 to 2000 mm

V-LIGHT-6-200

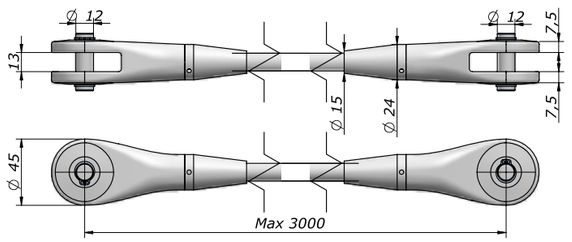
light 6-250



Tirante con forcelle - lungh. da 2001 a 2500 mm
Tension rod with forks - lenght from 2001 to 2500 mm

V-LIGHT-6-250

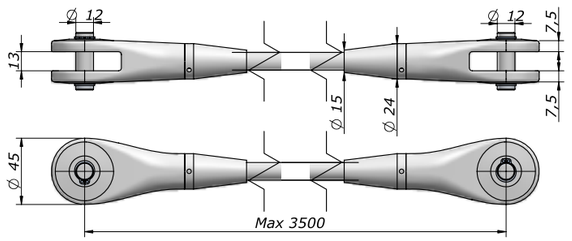
light 6-300



Tirante con forcelle - lungh. da 2501 a 3000 mm
Tension rod with forks - lenght from 2501 to 3000 mm

V-LIGHT-6-300

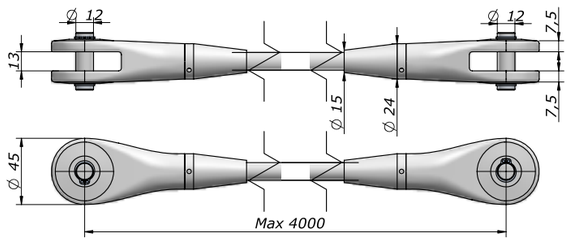
light 6-350



Tirante con forcelle - lungh. da 3001 a 3500 mm
Tension rod with forks - lenght from 3001 to 3500 mm

V-LIGHT-6-350

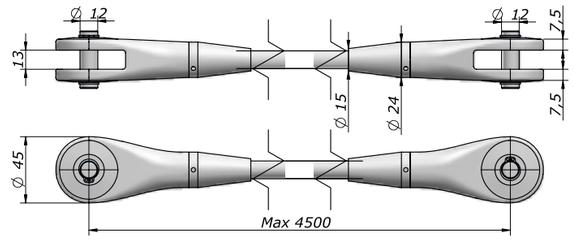
light 6-400



Tirante con forcelle - lungh. da 3501 a 4000 mm
Tension rod with forks - lenght from 3501 to 4000 mm

V-LIGHT-6-400

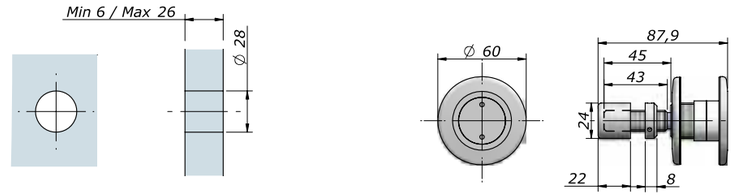
light 6-450



Tension rod with forks - lungh. da 4001 a 4500 mm
Tension rod with forks - lenght from 4001 to 4500 mm

V-LIGHT-6-450

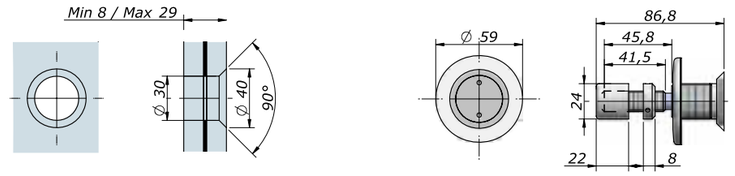
era N



Vite articolata per pensiline con ghiera svasata
Articulated screw for canopy with countersunk ring

V-ERA-N

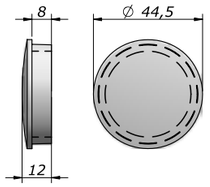
era M



Vite articolata per pensiline con ghiera piatta diametro 60 mm
Articulated screw for canopy with flat ring diam. 60 mm

V-ERA-M

AC 6



Tappo di copertura per serie Light
Cup for Light series

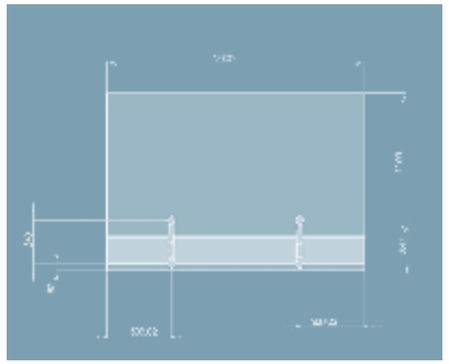
V-AC-6

accessories for stairs

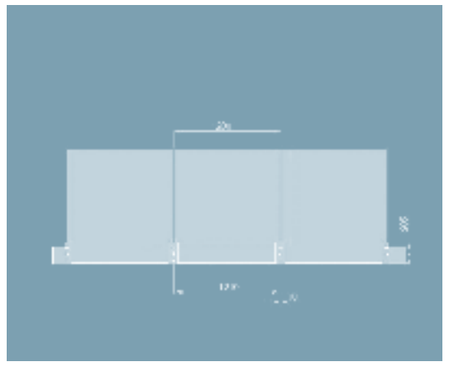
accessori per scale

VETRA

Sirio A – Sirio B



Sirio C – Sirio D



Accessori per parapetti:

La serie di accessori per parapetti comprende viti fisse e supporti per il fissaggio di balaustre in vetro. Le due categorie di accessori si differenziano per la loro modalità di fissaggio a muro e a vetro.

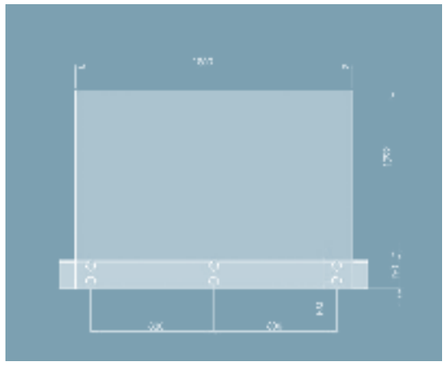
Le viti prevedono un distanziale da fissare a muro e sul quale verrà avvitata la testa di serraggio che sosterrà la lastra, si ha quindi un unico punto di fissaggio muro-vetro per ogni vite e la possibilità di stabilire le distanze tra le viti. Le viti devono essere distanziate almeno 150/200 mm l'una dall'altra in modo da evitare punti critici che possano causare la rottura della lastra o il cedimento dei tasselli di fissaggio. Spesso questo spazio non è disponibile o è insufficiente per garantire la portata richiesta, in questo caso è possibile utilizzare i supporti Sirio. Questi supporti prevedono un doppio attacco a muro con interasse 120 mm e un doppio attacco a vetro con interasse 340 mm, in questo modo si aumenta notevolmente l'interasse di fissaggio sul vetro pur mantenendo due attacchi a muro vicini e si garantisce una portata ed una stabilità molto elevata del parapetto.
I sostegni Sirio A sono stati testati e garantiscono una portata di 150 kg sia per carichi verticali che per carichi orizzontali. Questo valore è sufficiente a garantire la possibilità di impiego anche in luoghi con grande affluenza di pubblico dove la resistenza alla spinta richiesta è solitamente di 300 kg/ml. I supporti Sirio B, invece, garantiscono un carico massimo di 100 Kg.

Balustrades accessories:

Accessories for balconies include a series of screws and supports for glass balustrades.
The accessories are distinguished by their type of fixing to wall and to glass.

The screws have a spacer that has to be fixed on the wall and on which the support for the glass will be screwed, there is one single point of fixing wall-glass for each screw and it will be possible to decide the distance between the screws.
The screws must be spaced at least 150/200 mm one from the other to avoid critical points that may cause the breaking of the glass or the crushing of the screws anchor. Often there is not enough space available for the fixing or to guarantee the tightness of the anchors, in this case it's possible to use Sirio supports. These supports have a double attack against the wall with 120 mm distance and a double attack on glass with distance 340 mm.

Era P – Era R – Era Q

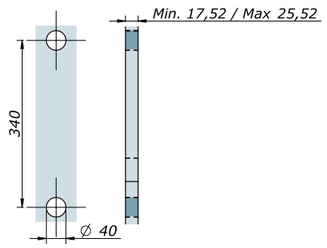


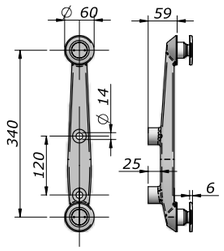
I supporti sirio C D E prevedono invece, due punti di fissaggio a muro regolabili e l'inserimento del vetro tra corpo e piastre di fissaggio, con o senza tacca.

In this way there is an increase of the distance of the glass fixing even maintaining two points of fixing near to each other on the wall granting a high load capacity and stability of the balusters. Sirio A supports have been tested and guarantee a load capacity of 150 Kgs for both vertical and horizontal charges. This value is enough to assure the possibility of use also in places with high public inflow where a resistance to a pressure of 300 Kg/ml is usually requested. Sirio B supports ensure a maximum load capacity of 100 Kg.

Supports sirio C D E have two adjustable fixing point to wall and the glass has to be inserted between the clamp body and the fixing plate.
Glass could be made with or without cut out.

sirio A

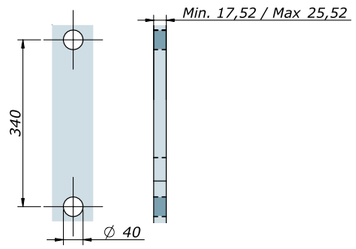


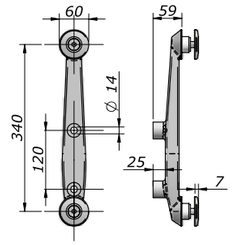


Supporto per parapetti con fissaggio a parete in acciaio inox
Support for balustrades with wall fixing in stainless steel

V-SIRIO-A

sirio B

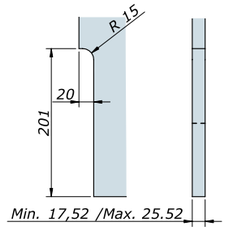


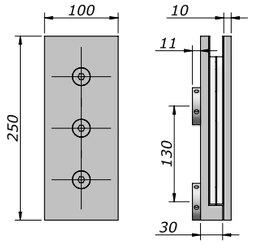


Supporto per parapetti con fissaggio a parete in alluminio
Support for balustrades with wall fixing in aluminium

V-SIRIO-B

sirio C

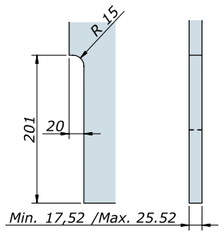


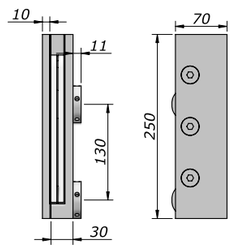


Morsetto centrale di supporto per parapetti
Central clamp for balustrades

argento/silver	crom. sat/chro. mat
V-SIRIO-C-A	V-SIRIO-C-I

sirio D

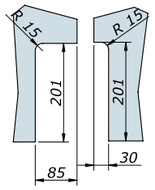


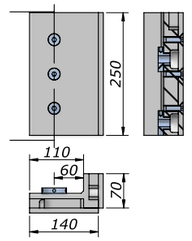


Morsetto terminale di supporto per parapetti
Side clamp for balustrades

argento/silver		crom. sat/chro. mat	
V-SIRIO-D-DX-A	V-SIRIO-D-SX-A	V-SIRIO-D-DX-I	V-SIRIO-D-SX-I

sirio E

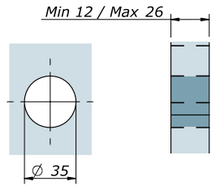


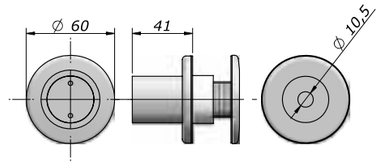


Morsetto ad angolo
Corner clamp

argento/silver		crom. sat/chro. mat	
V-SIRIO-E-DX-A	V-SIRIO-E-SX-A	V-SIRIO-E-DX-I	V-SIRIO-E-SX-I

era P

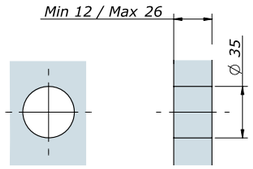


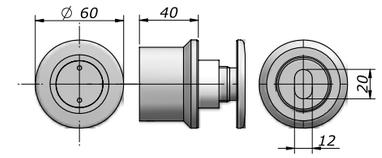


Vite fissa per fissaggio a parete con distanziale h. 40
Fixed screw for fixing to the wall with spacer diam. 40

V-ERA-P

era Q

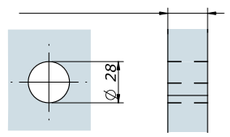


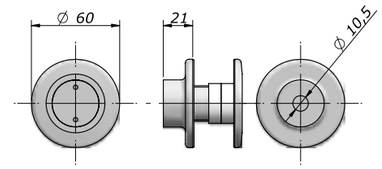


Vite fissa per fissaggio regolabile a parete
Fixed screw with adjustable fixing to the wall

V-ERA-Q

era R 15

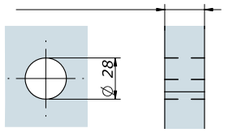


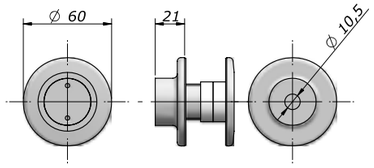


Vite fissa per fissaggio a parete con distanziale h. 20 per spessore fino a 15 mm
Fixed screw for fixing to the wall with spacer 20 mm maximum thickness 15 mm

V-ERA-R-15

era R 22

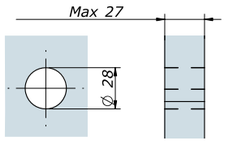


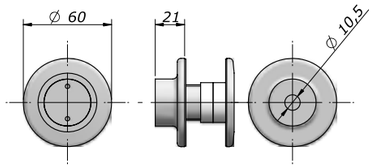


Vite fissa per fissaggio a parete con distanziale h. 20 per spessore fino a 22 mm
Fixed screw for fixing to the wall with spacer 20 mm maximum thickness 22 mm

V-ERA-R-22

era R 27

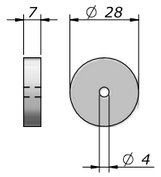




Vite fissa per fissaggio a parete con distanziale h. 25 per spessore fino a 27 mm
Fixed screw for fixing to the wall with spacer 25 mm maximum thickness 27 mm

V-ERA-R-27

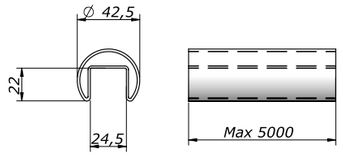
AC 11



Tappo di copertura per Art. Sirio A/B
Cup for Art. Sirio A/B

V-AC-11

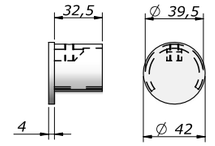
AC 12



Profilo corrimano rotondo
Round hand rails profile

V-AC-12

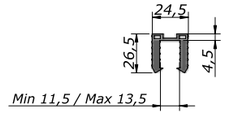
AC 13



Tappo per profilo per Art. AC 12
Hand cup for Art. AC 12

V-AC-13

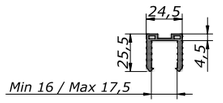
AC 14



Guarnizione in gomma per Art. AC 12
Gasket profile for Art. AC 12

V-AC-14

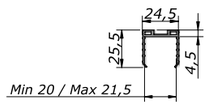
AC 15



Guarnizione in gomma per Art. AC 12
Gasket profile for Art. AC 12

V-AC-15

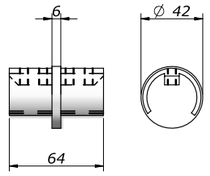
AC 16



Guarnizione in gomma per Art. AC 12
Gasket profile for Art. AC 12

V-AC-16

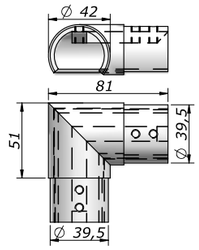
AC 17



Giunto per profilo Art. AC 12
Junction for profile Art. AC 12

V-AC-17

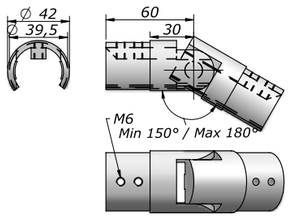
AC 18



Giunto a 90° per profilo Art. AC 12
Junction at 90° for profile Art. AC 12

V-AC-18

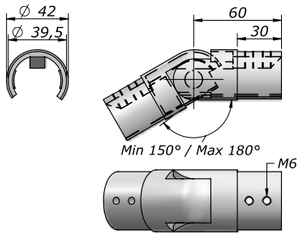
AC 19



Giunto regolabile per profilo Art. AC 12
Adjustable junction for profile Art. AC 12

V-AC-19

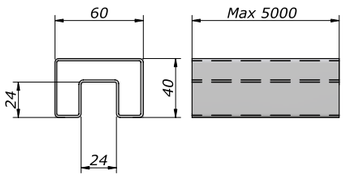
AC 20



Giunto regolabile per profilo Art. AC 12
Adjustable junction for profile Art. AC 12

V-AC-20

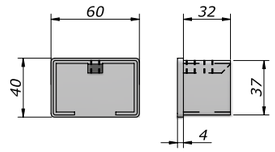
AC 21



Profilo corrimano rettangolare
Rectangular hand rails profile

V-AC-21

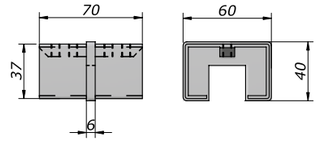
AC 22



Tappo per profilo per Art. AC 21
Hand cup for Art. AC 21

V-AC-22

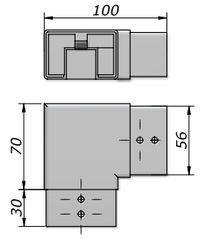
AC 23



Giunto per profilo Art. AC 21
Junction for profile Art. AC 21

V-AC-23

AC 24

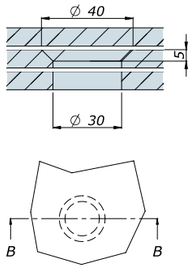


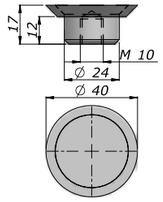
Giunto a 90° per profilo Art. AC 21
Junction at 90° for profile Art. AC 21

V-AC-24

accessori per gradini
accessories for glass steps

step 1

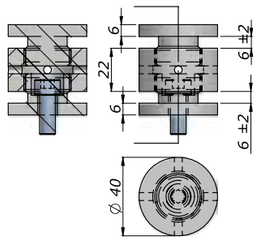




Borchia svasata per gradini
Countersunk boss for step

V-STEP-1

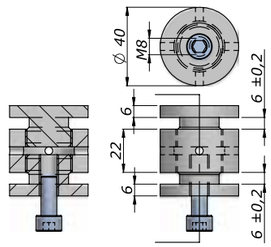
step 2



Borchia per supporto gradini
Boss for step support

V-STEP-2

step 3



Borchia per supporto gradini
Boss for step support

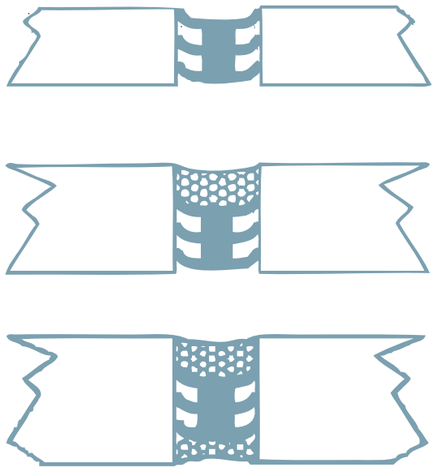
V-STEP-3

various accessories

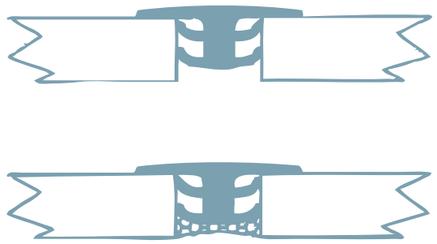
accessori vari

VETRA

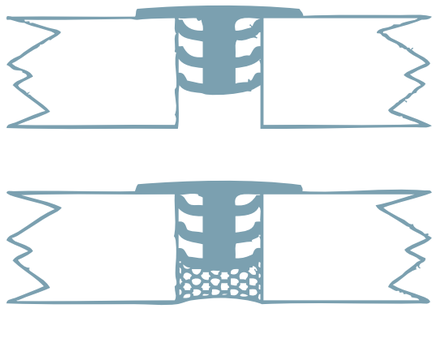
AC 8



AC 9



AC 10



Accessori:

La gamma di accessori comprende vari articoli utilizzabili per il fissaggio e l'istallazione dei prodotti della linea Vetra System.

La serie comprende:

- **Dadi autobloccanti e ciechi per viti articolate Era**
- **Viti di fissaggio speciali per i supporti Astra, Aura, Vega e Vela**
- **Chiavi di serraggio**
- **Tappi di copertura**
- **Accessori di connessione**
- **Profili siliconici**
- **Distanziali**

Accessories:

The range of accessories includes various articles that could be used for fixing and installation of Vetra System products.

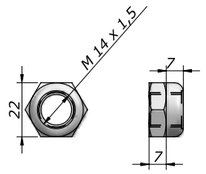
The series include:

- Self locking and cup nut for articulated screws Era
- Special fixing screws for Astra, Aura, Vega and Vela supports
- Screwing key
- Cover cup
- Connection accessories
- Silicon profiles
- Spacer

I profili siliconici vengono spesso utilizzati come riempimento per la sigillatura tra lastra e lastra, sono disponibili in tre versioni e possono essere utilizzati in maniera diversa come evidenziato negli esempi.

Silicon profiles are often used as filling for the sealing between glass and glass. Three types are available and they could be used in different ways as shown in the examples.

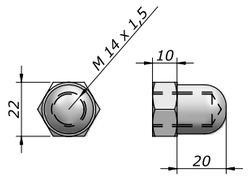
AC 1



Dado auto-bloccante per Era
Self-locking nut for Era

V-AC-1

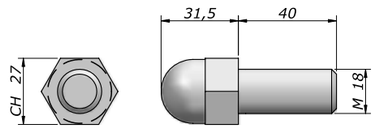
AC 2



Dado cieco per Era
Cap nut for Era

V-AC-2

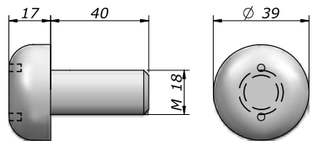
AC 3



Bullone fissaggio supporti
Screw for support fixing

V-AC-3

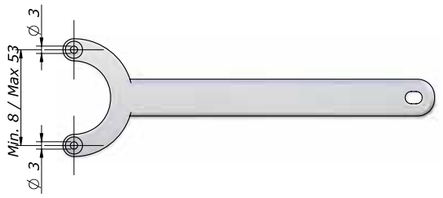
AC 4



Bullone fissaggio supporti
Screw for support fixing

V-AC-4

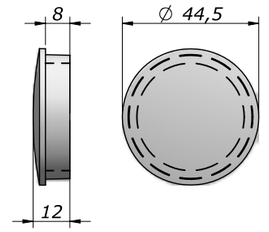
AC 5



Chiave per serie Era
Key for Era

V-AC-5

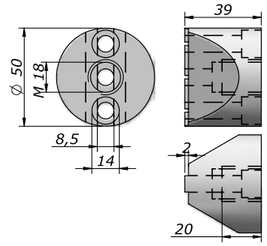
AC 6



Tappo di copertura per serie Light
Cup for Light series

V-AC-6

AC 7



Distanziale alluminio per montante Mini (Art. AP01/Acm600)
Aluminium spacer for Mini profile (Art. AP 01/Acm 600)

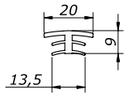
V-AC-7

AC 8

Profilo siliconico
Siliconic profile

V-AC-8

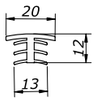
AC 9



Profilo siliconico a "T"
"T" Siliconic profile

V-AC-9

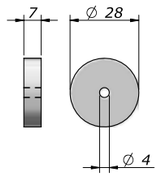
AC 10



Profilo siliconico a "T"
"T" Siliconic profile

V-AC-10

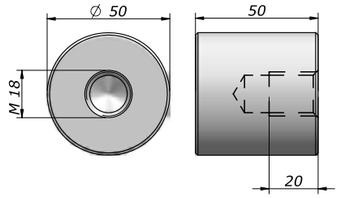
AC 11



Tappo di copertura per Art. Sirio A/B
Cup for Art. Sirio A/B

V-AC-11

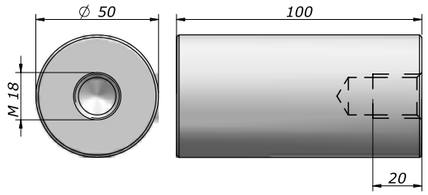
AC 30



Distanziale da saldare supporto-struttura diam. 50 h. 50
Spacer support-structure for welding diam. 50 h. 50

V-AC-30

AC 31



Distanziale da saldare supporto-struttura diam. 50 h. 100
Spacer support-structure for welding diam. 50 h. 100

V-AC-31

Serie supporti

Sulla struttura portante realizzata in base alle descrizioni precedenti dovranno essere fissati supporti a quattro, tre, due o una via con interasse 150 o 220 mm, realizzati in acciaio inox Aisi 316 L con fi nitura elettrolucidato della serie Vetra System di Nuova Oxidal srl (Eventuale codice articolo...).

Serie viti

Articolate

Le lastre in vetro verranno fi ssate sui supporti o alla struttura portante tramite viti articolate con giunto sferico (rolules) dotate delle apposite guarnizioni e degli eventuali accessori, realizzate in acciaino inox Aisi 316 L con testa piatta o svasata di diametro 40 o 60 mm modello Era (eventuale codice articolo...) della serie Vetra System di Nuova Oxidal srl.

Fisse

Le lastre in vetro verranno fissate alla struttura tramite viti fisse dotate delle apposite guarnizioni, realizzate in acciaino inox Aisi 316 L, con testa piatta o svasata di diametro 40 o 60 mm modello Era (eventuale codice articolo…..) della serie Vetra System di Nuova Oxidal srl.

Nemo

Le lastre in vetro verranno fi ssate tramite sistema di ancoraggio in alluminio senza tacche o forature Nemo (eventuale modello) di Nuova Oxidal srl con finitura ossidato argento.

Light

Le lastre verranno fissate tramite sistema di sostegno per pensiline Light di Nuova Oxidal srl costituito da attacchi a muro, attacchi a vetro, viti articolate con giunto sferico e tiranti combinabili tra loro a seconda delle esigenze completamente realizzati in acciaio inox Aisi 316 L, dotati degli appositi tappi per la copertura delle viti o tasselli di fissaggio a muro.

Supports series

On the loading structures, realized according to the previous descriptions, it has to be fixed on the supports included in the Vetra System range made by Nuova Oxidal srl (If possible article's code…) with four, three, two or one arm, with 150 or 200 mm hole distances, realized in stainless steel Aisi 316 L with electro polish finish.

Screw series

Articulated Screws

Glass sheets will be fixed on the supports or on the structures by articulated screws with spherical joints (rotules) included in the Vetra System range made by Nuova Oxidal srl equipped with suitable gaskets and additional accessories, realized in stainless steel Aisi 316 L, with countersunk or flat head of 40 or 60 mm of diameter type Era (if possible article's code….)

Fixed Screws

Glass sheets will be fixed on the structures by fixed screws ….) included in the Vetra System range made by Nuova Oxidal srl equipped with suitable gaskets, realized in stainless steel Aisi 316 L, with countersunk or flat head of 40 or 60 mm of diameter type Era (if possible article's code...)

Nemo

Glass sheets will be fixed by clamping system Nemo in aluminium anodized silver finish (if possible article's code….) made by Nuova Oxidal srl that will not require any drill or hole on the glass.

Light

Glass sheets will be fixed by Light canopies system of Nuova Oxidal srl constituted by wall and glass connections and articulated screws with spherical joints that could be combined according to the needs. Accessories have to be completly realized in stainless steel Aisi 316 L and equipped with apposite cups to cover wall anchor screw.

Parapetti

Viti

Le balaustre in vetro verranno ancorate con un numero adeguato di viti fisse in acciaio inox Aisi 316 L dotate delle apposite guarnizioni modello Era (eventuale codice articolo...) della serie Vetra System di Nuova Oxidal srl realizzate.

Sirio

Le balaustre in vetro verranno ancorate con un sistema di fissaggio realizzato in acciaio inox Aisi 316 L dotato delle apposite guarnizioni tipo Sirio (eventuale codice articolo...) della serie Vetra System di Nuova Oxidal srl.

Balustrades

Screws

Glass balustrades will be fixed with a correct number of fixed screws included in the Vetra System range made by Nuova Oxidal srl made in stainless steel Aisi 316 L equipped with suitable gaskets type Era (if possible article's code...)

Sirio

Glass balustrades will be fixed with fixing system Sirio (if possible article's code….) included in the Vetra System range made by Nuova Oxidal srl realized in stainless steel Aisi 316 L equipped with suitable gaskets types.