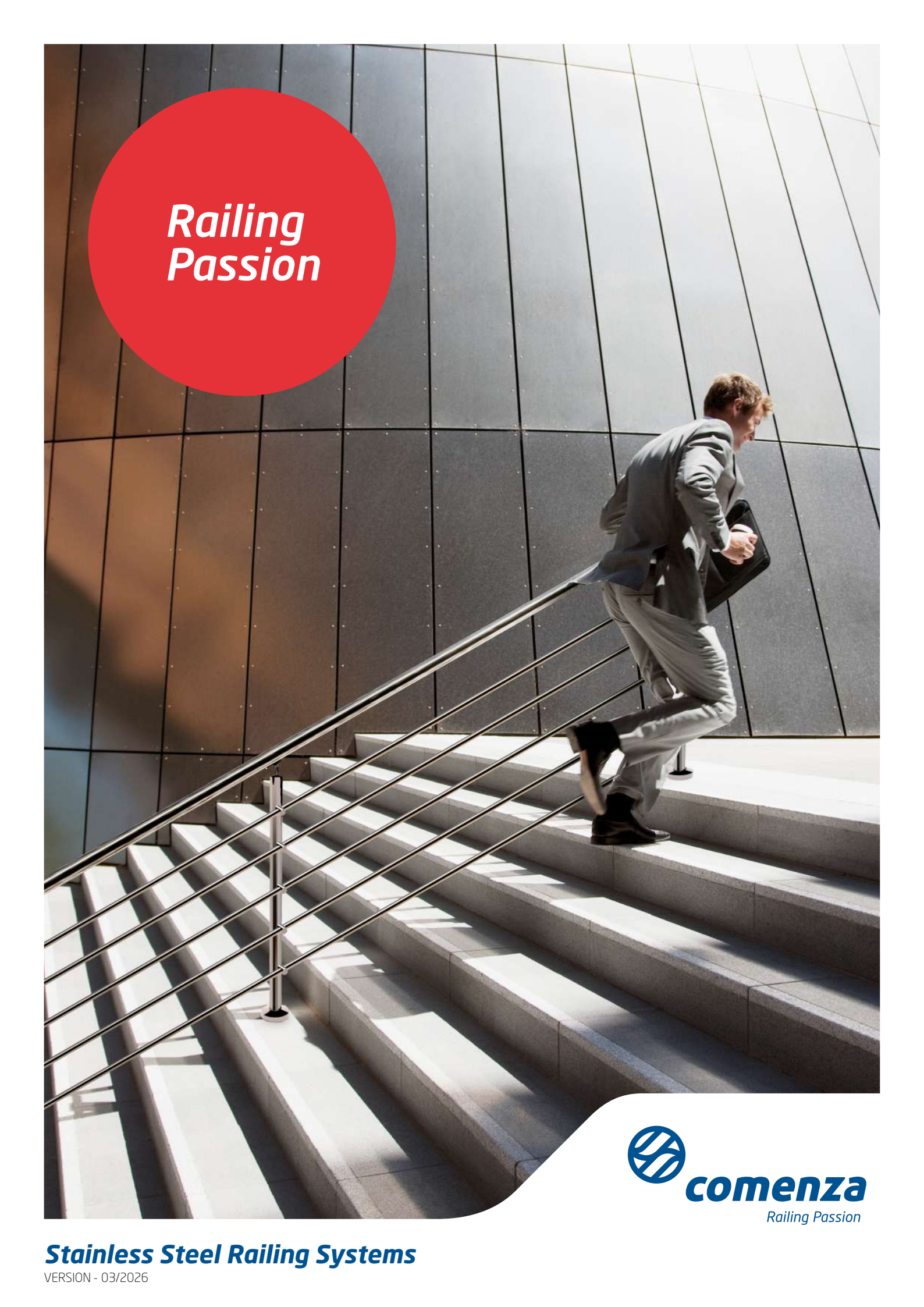




***Railing
Passion***



comenza

Railing Passion

Stainless Steel Railing Systems

VERSION - 03/2026



PYME INNOVADORA

Válido entre 14/05/2026 - 13/05/2029



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Glosario / Glossary / Glossaire

	Descripción	Description	Description
	Accesorio para soldar	Welding fittings	Accessoire pour souder
	Advertencia	Warning	Attention
	Atornillar	Screw	Visser
	Atornillar con llave allen	Screw with an allen key	Visser avec clé allen
	Centrador	Centering tool	Outil pour centré
	Instalación por golpe	Installation by hammer striking	Installation par coup
	Llave allen corta	Short Allen Key	Clé Allen à tête courte
	Llave de vaso hexagonal	Ratchet socket	Clé à six pans creux
	Llave gancho	Hook spanner	Clé à ergot
	Llave hexagonal de tubo	Tubular box spanner	Clé à douille
	Llave pitones	Pin wrench	Clé à pitons
	Pegamento	Glue	Colle
	Taladro percutor	Drill hammer	Perceuse a percussion
	Acabado barniz	Varnished finish	Finition vernie
	Acabado brillo	Polished finish	Finition Poli
	Acabado natural	Natural finish	Finition naturelle
	Acabado satinado	Satin finish	Finition brossé
	Piezas por caja	Pieces per box	Pièces par caisse
	Símbolo cuadrado	Square symbol	Symbole du carré
	Diámetro	Diameter	Diamètre
	Diámetro cable	Wire diameter	Diamètre du câble
	Espaciado del vidrio	Spacing of the glass	Espacé du verre
	Espesor del tubo	Tube thickness	Épaisseur du tube
	Espesor de referencia compatible	Compatible reference thickness	Épaisseur de référence compatible
	Espesor del vidrio	Glass thickness	Épaisseur du verre
	Izquierda / derecha	Left / right	Gauche / droite
	Largo	Length	Long
	Métrica del tornillo	Dimension of the screw	Métrique de la vis
	Referencia	Reference	Référence
	Regulable	Adjustable	Ajustable



Railing Passion

[esp]
Nosotros

Comenza es la compañía global de sistemas de barandillas de diseño que proporciona soluciones creativas a las necesidades de las personas en los espacios que habitan, a través de productos de alta calidad que garanticen su seguridad y bienestar.

Durante estos últimos años nos hemos convertido en una de las referencias a nivel mundial en diseño y desarrollo de sistemas de barandillas modulares para proyectos hoteleros, edificios residenciales y comerciales, centros comerciales, sedes de empresa e institucionales, viviendas unifamiliares etc.

[eng]
About us

Comenza is the global railing systems company that provides creative solutions to the people's needs through high quality products that guarantee their safety and well-being.

In the last few years, we have become one of the worldwide references in design and development of modular railing systems for hotel projects, residential and commercial buildings, family houses, shopping centers, malls, airports etc.

[fra]
Nous

Comenza est la société globale de systèmes de garde-corps design qui vous propose des solutions créatives à vos besoins d'espaces habités, grâce à des produits de haute qualité qui garantissent votre sécurité et votre bien-être.

Au cours de ces dernières années, nous sommes devenus une des références de niveau mondial dans le design et le développement de systèmes de garde-corps modulaires pour des projets hôteliers, des immeubles résidentiels ou de bureau, des centres commerciaux, des sièges sociaux tant de sociétés publiques comme privées, de villas, etc...

[esp]
Internacional

Siguiendo la filosofía "piensa global actúa local" te ofrecemos sistemas de barandillas de alta calidad adaptados técnicamente a las exigencias de cada mercado con un diseño único, máxima funcionalidad y en las mejores condiciones logísticas y de suministro.

Gracias a los más de 2000 clientes que a lo largo de este tiempo confían y han confiado en nuestra marca, los sistemas de barandillas Comenza se instalan y distribuyen hoy día en más de 36 países de todo el mundo.

[eng]
International

Following the philosophy of "think globally, act locally", we can offer you high-quality railing systems technically adapted to the demands of any market. Our systems feature unique designs, maximum functionality, and the best practices in logistics and supply.

Thanks to the 2000+ customers who have trusted us and relied upon our brand, Comenza railing systems are now being distributed and installed in over 36 countries around the world.

[fra]
International

En réponse à la philosophie "pense globalement, agit localement", nous vous offrons des systèmes de garde-corps de grande qualité adaptés techniquement aux exigences de chaque marché avec un design unique et une fonctionnalité maximum, et ce dans les meilleurs conditions logistiques et de livraison.

Jusqu'à présent, plus de 2000 clients ont accordé leur confiance à notre entreprise et à notre marque. Les systèmes de garde-corps Comenza sont installés et distribués dans plus de 36 pays à travers le monde.



www.comenza.com

Configurador de barandillas / Railing configurator / Configureur garde-corps



[esp]

Una herramienta que optimizará la gestión de proyectos.

En Comenza queremos que la elección de barandillas y pasamanos para cada proyecto sea un proceso dinámico y sencillo, por eso hemos desarrollado nuestro propio configurador en línea, una nueva herramienta que facilita el proceso de selección y personalización del sistema más adecuado para cada proyecto.

[eng]

A tool that will optimize project management

At Comenza, we want the choice of railings and handrails for each project to be a dynamic and simple process- This is the reason why we have developed our own online configurator, a new tool that will make the process of selecting and customizing the most suitable system for each project so much easier.

[fra]

Un outil qui optimise la gestion des projets

Chez Comenza, nous voulons que le choix des garde-corps et des mains courantes pour un projet soit un processus dynamique et simple. C'est pourquoi nous avons développé notre propre configurateur en ligne, un nouvel outil qui facilite le processus de sélection et de configuration du système le mieux adapté à chaque projet.



Selecciona el modelo de barandilla según normativa, montaje o sección que mejor se adapte a tus necesidades.

Select the railing model that best suits your needs, according to regulations, assembly, or section.

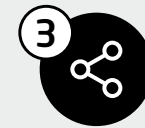
Sélectionnez le modèle de garde-corps qui correspond le mieux à vos besoins, en termes de normes, d'installation ou de section.



Configura tu barandilla de manera sencilla: pasamanos y complementos disponibles.

Configure your railing in a simple way: the handrail and its available accessories.

Configurez votre garde-corps de manière simple : mains courantes et accessoires disponibles.



Comparte tus configuraciones con tus colaboradores y clientes.

Share your configurations with your colleagues and customers.

Partagez vos configurations avec vos collaborateurs et vos clients.



Descarga toda la documentación técnica necesaria.

Download all the necessary technical documentation.

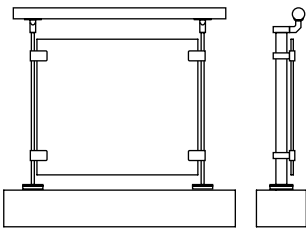
Téléchargez toute la documentation technique dont vous avez besoin.



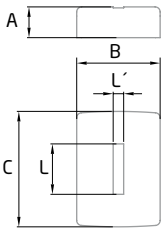
Contacta con el equipo comercial.

Contact the commercial team.

Contactez l'équipe commerciale.

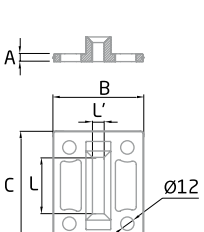


Sistema / System / Système
Minimal



AV-670 AISI-316

	L	L'	A	B	C	BA	SATIN
2	40	8	31	83	115		
2	50	10	31	83	115		



BS-20 AISI-316

	L	L'	A	B	C
2	40	8	7	80	96
2	50	10	7	80	96



Posibilidades de anclaje BS-20 / Anchoring possibilities for the BS-20 / Possibilités d'ancrage BS-20

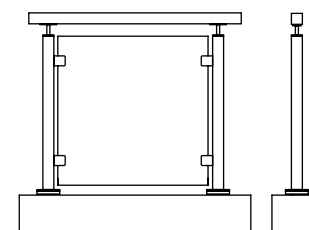
C25/30 Uncracked	C25/30 Cracked / Uncracked
FBN II M10 <i>(Brico Pag. 119)</i>	FAZ II M10 <i>(Brico Pag. 119)</i>
FIS VS 300 T M-10 + DIN 975 + DIN 934 + DIN 125 <i>(Brico Pag. 117 / 118)</i>	FIS VS 300 T M-10 + DIN 975 + DIN 934 + DIN 125 <i>(Brico Pag. 117 / 118)</i>

- * Consultar idoneidad de usos según posibilidades de anclaje *(Pag. 69)*
Consult adequacy of uses according to anchoring possibilities *(Pag. 69)*
Vérifier la pertinence de l'utilisations par rapport au possibilités d'ancrage *(Pag. 69)*

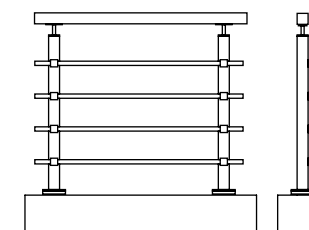
* Cracked / Uncracked
Hormigón Traccionado / Hormigón Comprimido
Béton comprimé / Béton en traction

* Calidad recomendada de hormigón comprimido y traccionado C25/30.
Recommended quality for uncracked/cracked concrete C25/30.
Qualité recommandé du béton comprimé et en traction C25/30.

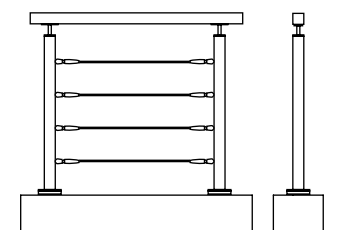
Square it



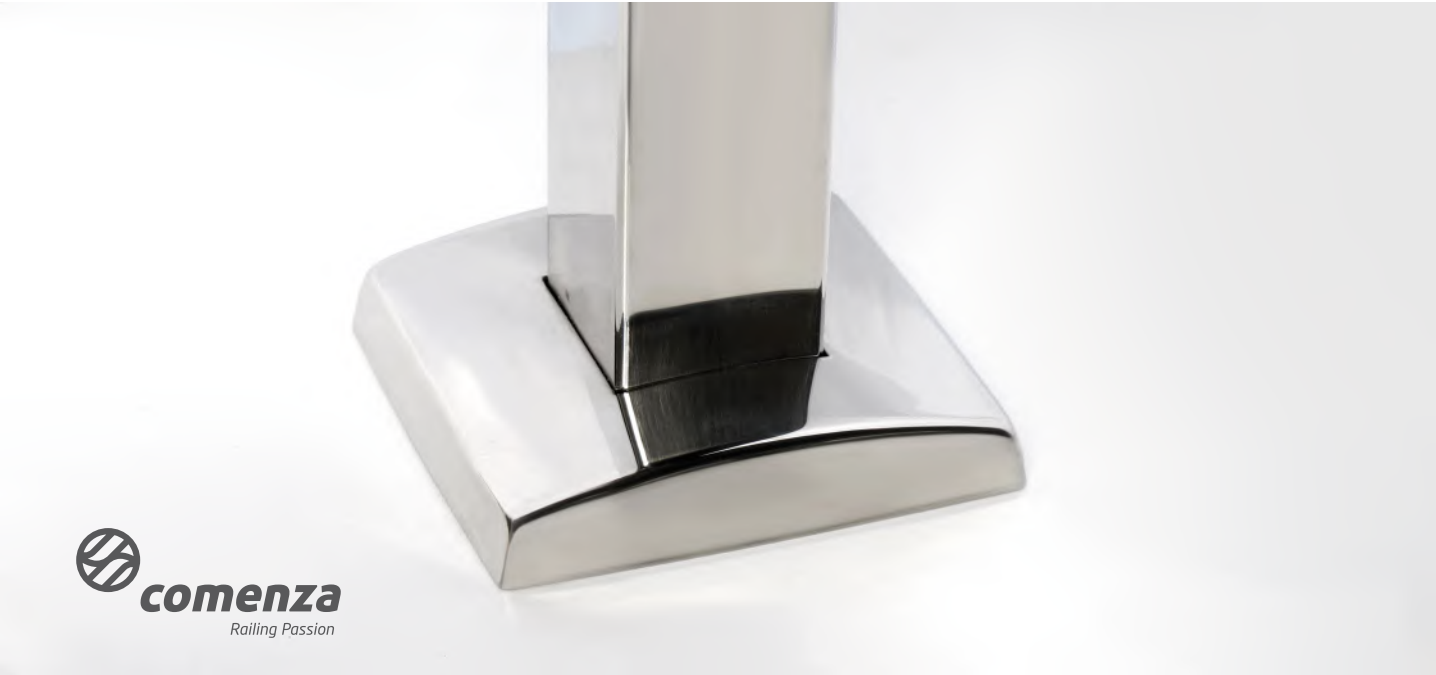
Sistema / System / Système
Square it: Glass

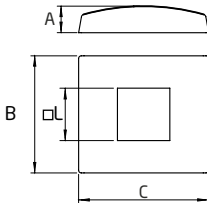


Sistema / System / Système
Square it: Tube



Sistema / System / Système
Square it: EasyCable



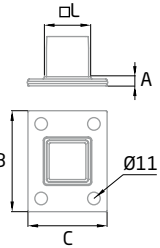


AV-660 AISI-316

BA

SATIN

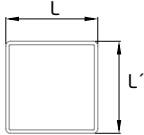
	□ L	A	B	C
2	40x40	20	90	100
2	50x50	20	90	100



BS-10 AISI-316

	□ L	A	B	C	E*
2	40x40	8	88	69	1,5
2	50x50	4	88	88	1,5



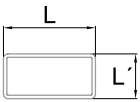


RP-1420 AISI-316

BA

SATIN

LG	L	L´	E*
6000	40	40	1,5
6000	20	20	1,5



RP-1420 AISI-316

BA

SATIN

LG	L	L´	E*
6000	40	20	1,5
6000	20	10	1,5

Posibilidades de anclaje BS-10 / Anchoring possibilities for the BS-10 / Possibilités d'ancrage BS-10

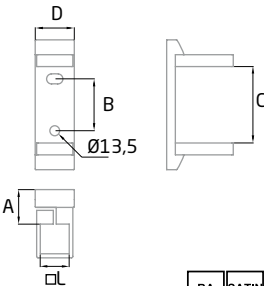
C25/30 Uncracked	C25/30 Cracked / Uncracked
FAZ II M-10 L-105 (Brico Pag. 119)	FAZ II M-10 L-105 (Brico Pag. 119)
FIS VS M-10 + DIN 975 + DIN 934 + DIN 125 (Brico Pag. 117/118)	FIS VS M-10 + DIN 975 + DIN 934 + DIN 125 (Brico Pag. 117 / 118)

* Consultar idoneidad de usos según posibilidades de anclaje (Pag. 69)
Consult adequacy of uses according to anchoring possibilities (Pag. 69)
Vérifier la pertinence de l'utilisations par rapport au possibilités d'ancrage (Pag. 69)

* Cracked / Uncracked
Hormigón Traccionado / Hormigón Comprimido
Béton comprimé / Béton en traction

* Calidad recomendada de hormigón comprimido y traccionado C25/30.
Recommended quality for uncracked/cracked concrete C25/30.
Qualité recommandé du béton comprimé et en traction C25/30.

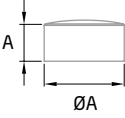




SL-1111 AISI-316

	□ L	A	B	C	D
1	40x40	46,5	70	103	54





TF-590 AISI-316

	øA	A	M
4	18	11	M8
4	22,5	13	M10

Tapa para cabeza de tornillo
End cap for screw head
Bouchon pour vis



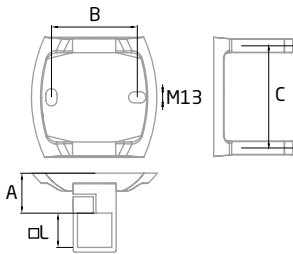
Posibilidades de anclaje SL-1111 / Anchoring possibilities for the SL-1111 / Possibilités d’ancrage SL-1111

C25/30 Uncracked	C25/30 Cracked / Uncracked
FBN II M-12 L-116 <i>(Brico Pag. 119)</i>	FAZ II M-12 L-120 <i>(Brico Pag. 119)</i>
FIS VS M-10 + DIN 975 + DIN 934 + DIN 125 <i>(Brico Pag. 117/118)</i>	FIS VS M-10 + DIN 975 + DIN 934 + DIN 125 <i>(Brico Pag. 117 / 118)</i>

- * Consultar idoneidad de usos según posibilidades de anclaje *(Pag. 69)*
Consult adequacy of uses according to anchoring possibilities *(Pag. 69)*
Vérifier la pertinence de l'utilisations par rapport au possibilités d'ancrage *(Pag. 69)*

* Cracked / Uncracked
Hormigón Traccionado / Hormigón Comprimido
Béton comprimé / Béton en traction

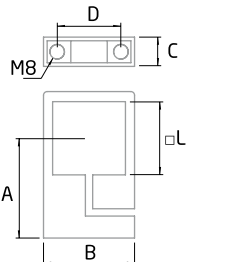
* Calidad recomendada de hormigón comprimido y traccionado C25/30.
Recommended quality for uncracked/cracked concrete C25/30.
Qualité recommandé du béton comprimé et en traction C25/30.



SL-1110 AISI-316

	□ L	A	B	C
1	40x40	46,5	100	120





SL-1181 AISI-316

	□ L	A	B	C	D
2	40x40	54,5	50	16	35



Posibilidades de anclaje SL-1110 / Anchoring possibilities for the SL-1110 / Possibilités d’ancrage SL-1110

C25/30 Uncracked	C25/30 Cracked / Uncracked
FBN II M-12 L-116 <i>(Brico Pag. 119)</i>	FAZ II M-12 L-120 <i>(Brico Pag. 119)</i>
FIS VS M-12 + DIN 975 + DIN 934 + DIN 125 <i>(Brico Pag. 117/118)</i>	FIS VS M-12 + DIN 975 + DIN 934 + DIN 125 <i>(Brico Pag. 117 / 118)</i>

- * Consultar idoneidad de usos según posibilidades de anclaje *(Pag. 69)*
Consult adequacy of uses according to anchoring possibilities *(Pag. 69)*
Vérifier la pertinence de l'utilisations par rapport au possibilités d'ancrage *(Pag. 69)*

* Cracked / Uncracked
Hormigón Traccionado / Hormigón Comprimido
Béton comprimé / Béton en traction

* Calidad recomendada de hormigón comprimido y traccionado C25/30.
Recommended quality for uncracked/cracked concrete C25/30.
Qualité recommandé du béton comprimé et en traction C25/30.



SL-1130 AISI-316

	A	B	C	D	BA	SATIN
*1 kit	31,5	40	30	30		

* 1 kit: 2pcs

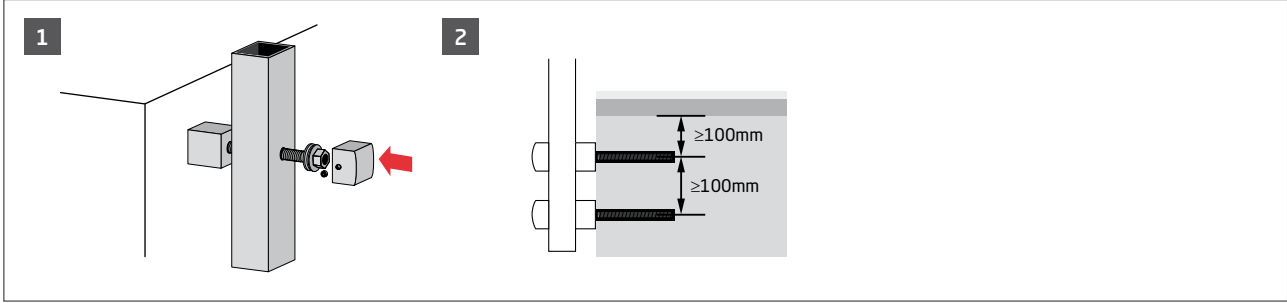
Posibilidades de anclaje SL-1130 / Anchoring possibilities for the SL-1130 / Possibilités d’ancrage SL-1130

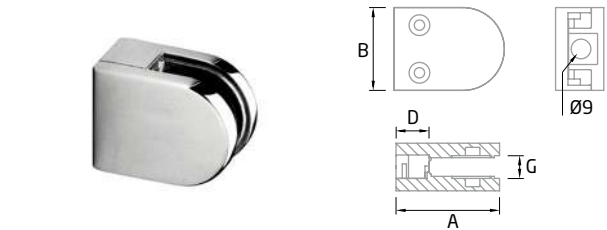
C25/30 Uncracked	C25/30 Cracked / Uncracked
FIS VS M-10 <i>(Brico Pag. 119)</i>	FIS VS M-10 <i>(Brico Pag. 119)</i>

- * Consultar idoneidad de usos según posibilidades de anclaje *(Pag. 69)*
Consult adequacy of uses according to anchoring possibilities *(Pag. 69)*
Vérifier la pertinence de l'utilisations par rapport au possibilités d'ancrage *(Pag. 69)*
- * Cracked / Uncracked
Hormigón Traccionado / Hormigón Comprimido
Béton comprimé / Béton en traction
- * Calidad recomendada de hormigón comprimido y traccionado C25/30.
Recommended quality for uncracked/cracked concrete C25/30.
Qualité recommandé du béton comprimé et en traction C25/30.

Instalación / Installation / Installation

SL-1130

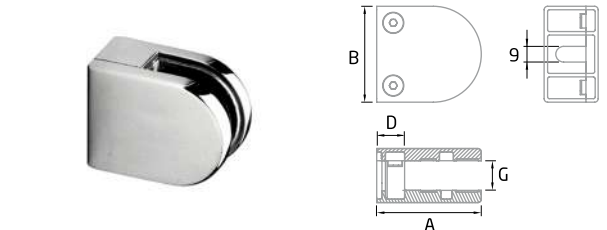




CC-700 AISI-316						BA	SATIN
	A	B	D	G			
4	50	40	16	6-8			
4	50	40	16	8-10			
4	50	40	16	10-12			

DIN-912 M-8 L-20 (Brico Pag. 114)

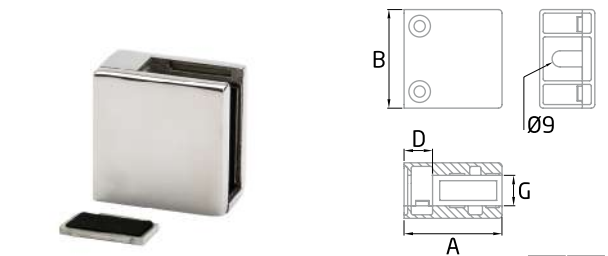
BR-2011 M-8 (Brico Pag. 115)



CC-702 AISI-316						BA	SATIN
	A	B	D	G			
4	60	55	16	12-16,76			

DIN-912 M-8 L-20 (Brico Pag. 114)

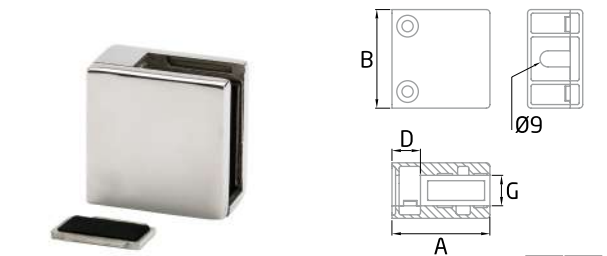
BR-2011 M-8 (Brico Pag. 115)



CC-724 AISI-316						BA	SATIN
	A	B	D	G			
4	45	45	16	6-10,76			

DIN-912 M-8 L-20 (Brico Pag. 114)

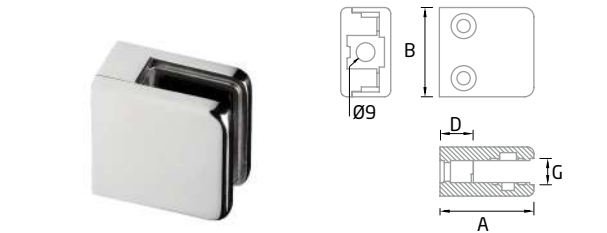
BR-2011 M-8 (Brico Pag. 115)



CC-726 AISI-316						BA	SATIN
	A	B	D	G			
4	55	55	16	12-16,76			

DIN-912 M-8 L-20 (Brico Pag. 114)

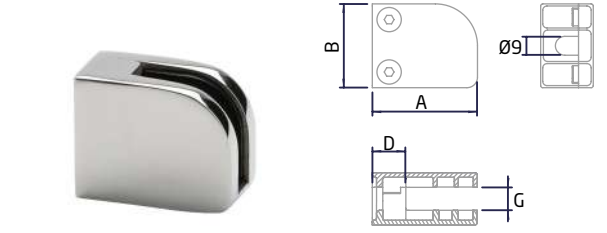
BR-2011 M-8 (Brico Pag. 115)



CC-720 AISI-316						BA	SATIN
	A	B	D	G			
4	44	44	16	8-10			

DIN-912 M-8 L-20 (Brico Pag. 114)

BR-2011 M-8 (Brico Pag. 115)



CC-750 AISI-316							BA	SATIN
	A	B	D	L/R	G			
4	50	40	16	L/R	8-10			

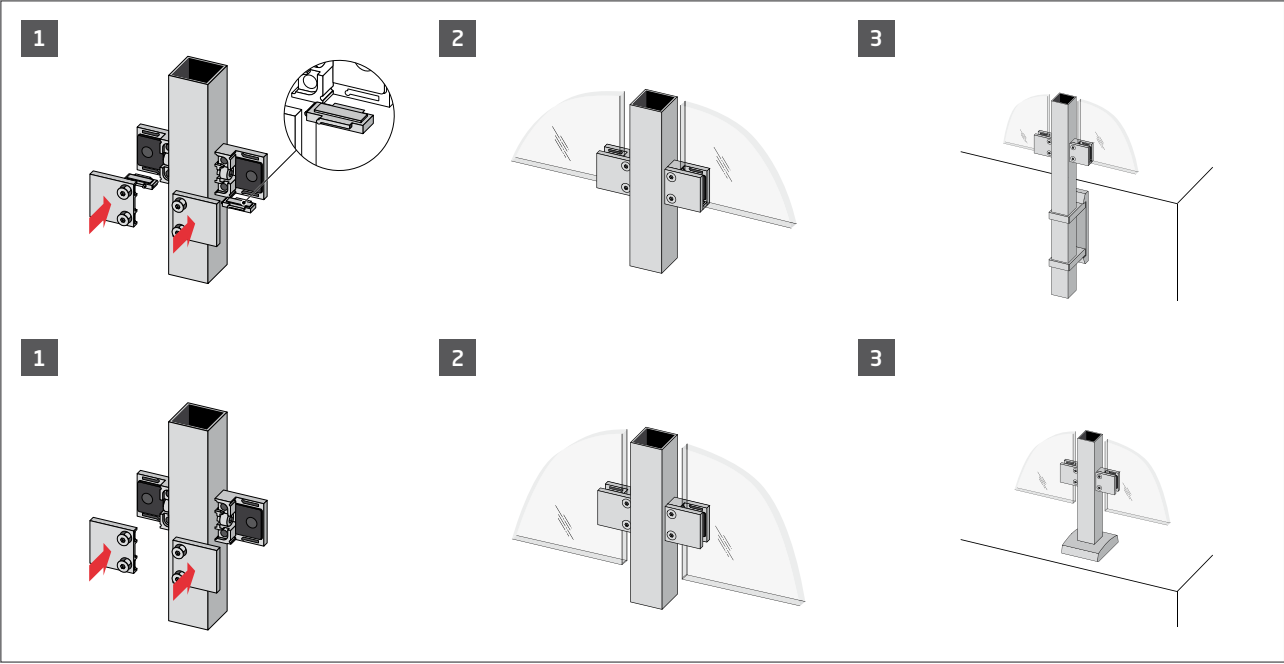
DIN-912 M-8 L-20 (Brico Pag. 114)

BR-2011 M-8 (Brico Pag. 115)



Instalación / Installation / Installation

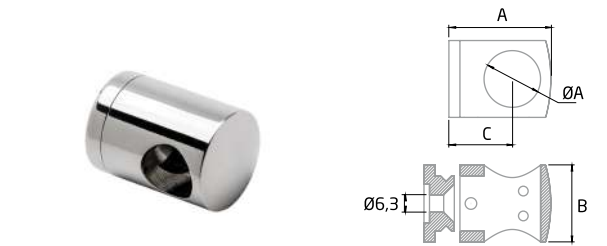
CC-724 / CC-726



CC-768 AISI-316					BA	SATIN
	A	B	G			
4	10	30	6-17,52			

BR-2011 M-8 (Brico Pag. 115)





ST-321
AISI-316

BA

SATIN

	ØA	A	B	C
4	12	29,5	20	20
4	20	37	28	23
4	16	33	24	21

DIN-7991 M-6 L-25 (Brico Pag. 114)
BR-2011 M-6 (Brico Pag. 115)



ST-323
AISI-316

BA

SATIN

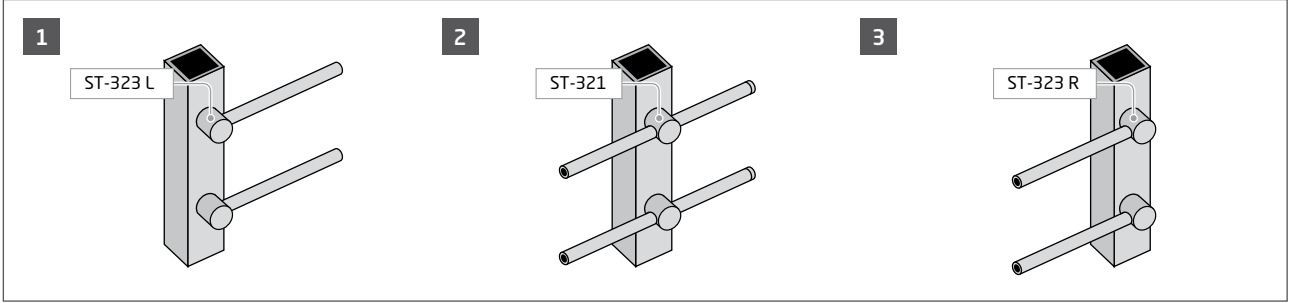
	ØA	A	B	C	L/R
4	12	29,5	20	20	L/R
4	20	37	28	23	L/R

DIN-7991 M-6 L-25 (Brico Pag. 114)
BR-2011 M-6 (Brico Pag. 115)

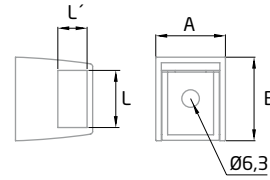


Instalación / Installation / Installation

ST-321 / ST-323





ST-328 AISI-316

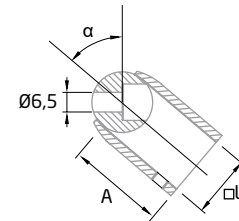
BA

SATIN

	L	L'	A	B
4	20	10	25	28

DIN-7991 M-6 L-25 *(Brico Pag. 114)*
BR-2011 M-6 *(Brico Pag. 115)*



SA-407 AISI-316

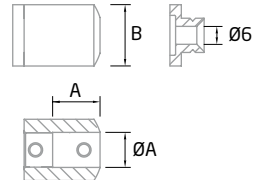
BA

SATIN

	L	A	α
4	20x20	32	50°

DIN-912 M-6 L-20 *(Brico Pag. 114)*
BR-2011 M-6 *(Brico Pag. 115)*



ST-326 AISI-316

BA

SATIN

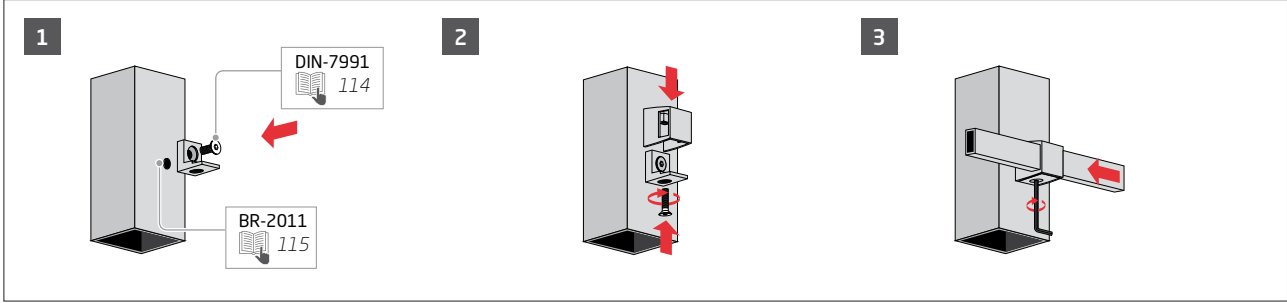
	øA	A	B
4	12	16	21

DIN-7991 M-6 L-25 *(Brico Pag. 114)*
BR-2011 M-6 *(Brico Pag. 115)*



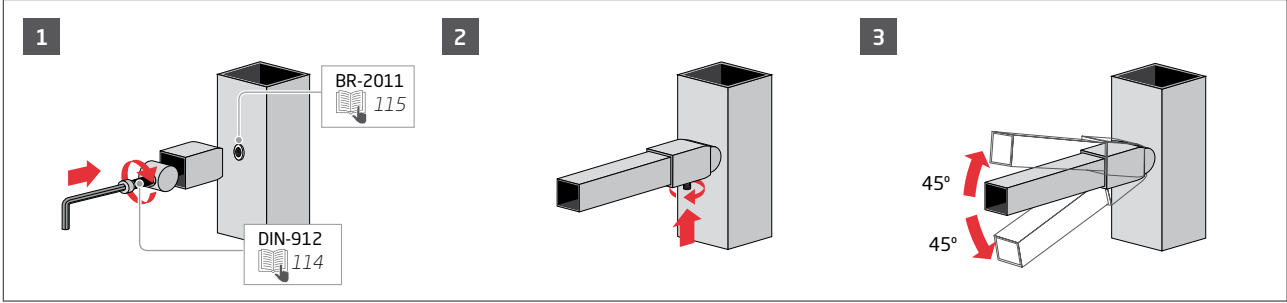
Instalación / Installation / Installation

ST-328



Instalación / Installation / Installation

SA-407





SC-800 AISI-316				BA	SATIN
	ØC	B			
2	4-5 mm	112			

BR-2011 M-6 (Brico Pag. 115)

Tensor.
Tensioner.
Tendeur.



SC-801 AISI-316				BA	SATIN
	ØC	B			
2	4-5 mm	71			

BR-2011 M-6 (Brico Pag. 115)

Terminal.
Terminal.
Terminaison.



SC-850 AISI-316				BA	SATIN
	ØC	B			
4	4-5 mm	20			

Stopper.

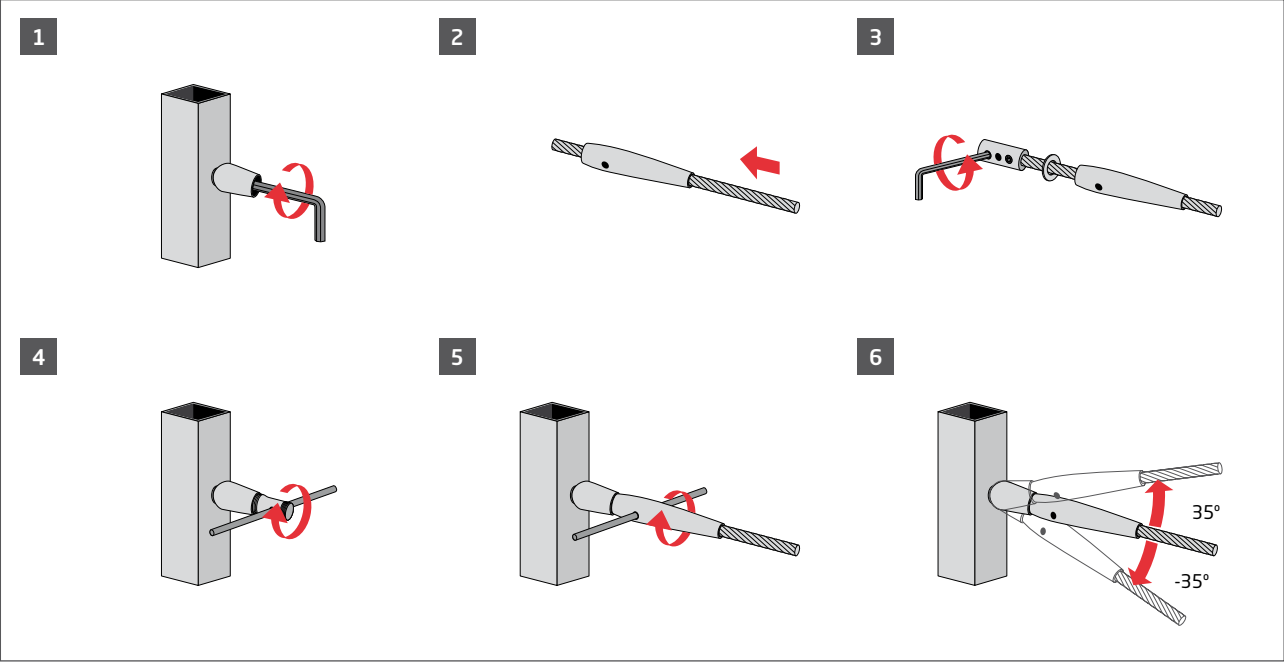


7 + 7 + 0 semi-flexible

RP-1460 AISI-316		
ØC	L	
4	Consultar / Inquire / Consulter	
5	Consultar / Inquire / Consulter	

Instalación / Installation / Installation

SC-800 / SC-801



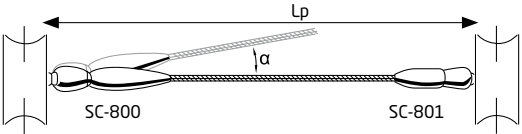
Ver video de instalación en / Watch installation video at / Voir video d'installation à www.comenza.com

Recomendaciones / Recommendations / Recommendations

Cable Recomendado.
Recommended wire.
Câble recommandé.



7 + 7 + 0 semi-flexible



Máx: 10m Lc=(Lp/cos α)-øT-105+10

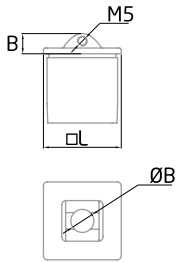
Lc: Longitud del cable / Cable Lenght / Longueur câble
Lp: Longitud entre centros de pilares / Length between pillar centers / Longueur entre les centres des piliers
øT: ø tubo / ø tube

(Los datos reflejados están basados en ensayos realizados con cálculo elementos finitos y verificados en nuestras instalaciones con ensayos físicos. Es responsabilidad del usuario establecer la idoneidad de la información facilitada con el uso particular que vaya a realizar del producto)

(The data indicated are based on tests conducted by finite element calculation and checked at our facilities with physical tests. The user is responsible of determining the adequacy of the information provided to the particular use of the product)

(Les informations présentes s'appuient sur des tests réalisés par calcul par éléments finis et vérifié par au sein de nos installations par de essais physique. Il incombe à l'utilisateur de défi nir le bien fondé de l'information fournie et de la recouper en fonction de l'usage qu'il fera lui-même du produit)





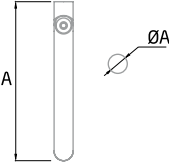
SA-440 AISI-316

	□ L	øB	A	E*
2	40x40	12	10	1,5
2	50x50	12	12	1,5



BA

SATIN



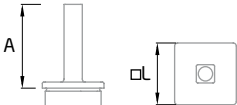
BG-00 AISI-316

	øA	A
2	12	100



BA

SATIN



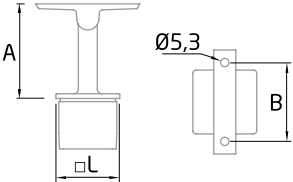
ST-331 AISI-316

	□ L	A	E*
2	40x40	55	1,5



BA

SATIN



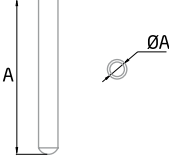
ST-332 AISI-316

	□ L	A	B	E*
2	40x40	60	50	1,5



BA

SATIN



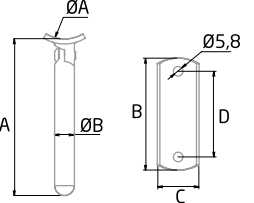
BF-00 AISI-316

	øA	A
2	12	96



BA

SATIN



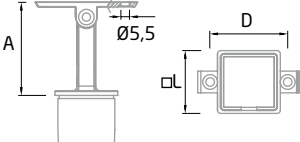
BG-R AISI-316

	øA	øB	A	B	C	D
2	43	12	95	68	25	52
2	50,8	12	95	68	25	52



BA

SATIN



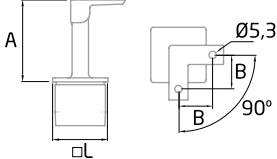
SA-434 AISI-316

	□ L	A	D	E*
2	40x40	60	50	1,5



BA

SATIN



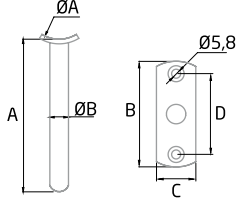
ST-339 AISI-316

	□ L	A	B	E*
2	40x40	60	25	1,5



BA

SATIN



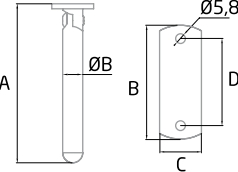
BF-R AISI-316

	øA	øB	A	B	C	D
2	43	12	98	68	25	52
2	50,8	12	98	68	25	52



BA

SATIN



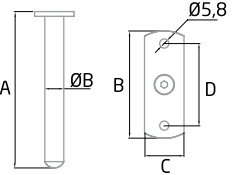
BG-FLAT AISI-316

	øB	A	B	C	D
2	12	95	68	25	52



BA

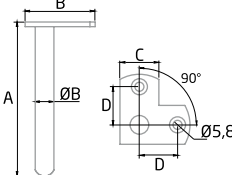
SATIN



BF-FLAT AISI-316

	ØB	A	B	C	D	BA	SATIN
2	12	99	68	25	52		

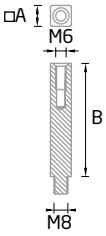




BF-C FLAT 90 AISI-316

	ØB	A	B	C	D	BA	SATIN
2	12	99	45	25	24,5		

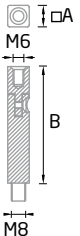




ST-381 AISI-316

	□L	B	BA	SATIN
2	12	65		

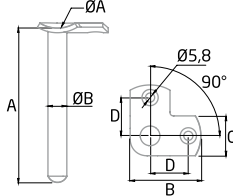




SA-481 AISI-316

	□L	B	BA	SATIN
2	12	65		

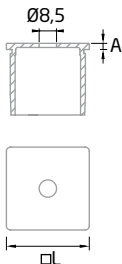




BF-C R 90 AISI-316

	ØA	ØB	A	B	C	D	BA	SATIN
2	43	12	98	45	25	24		
2	50,8	12	98	45	25,5	24		





TF-533 AISI-316

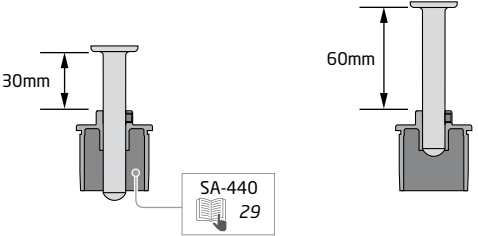
	□L	A	E*	BA	SATIN
2	40x40	3	1,5		
2	50x50	3	1,5		

 *Included

Instalación / Installation / Installation

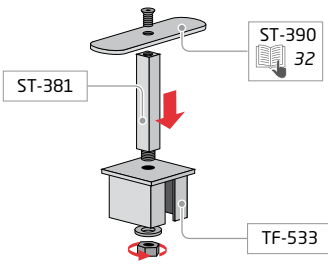
SA-440

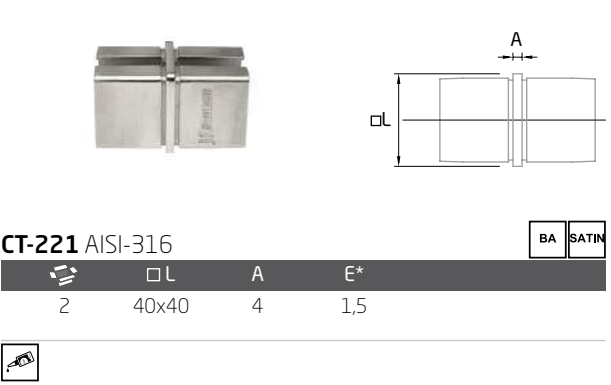
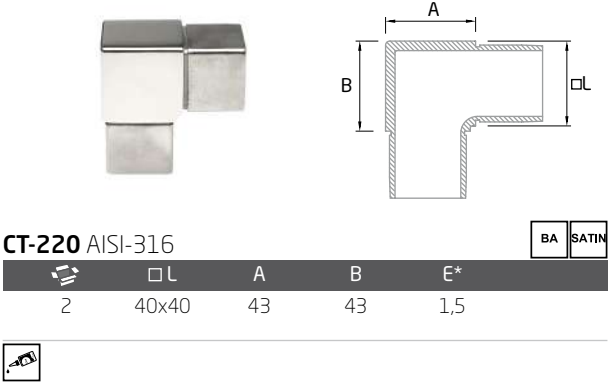
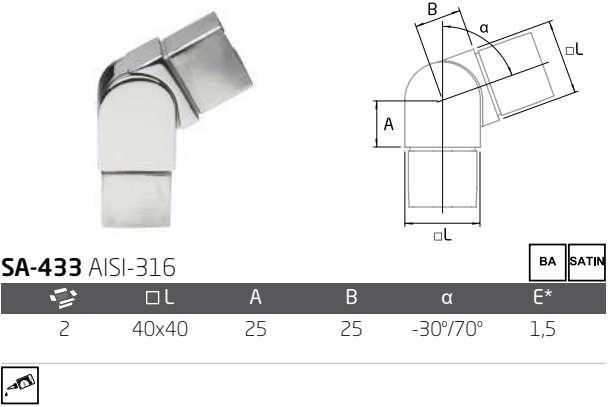
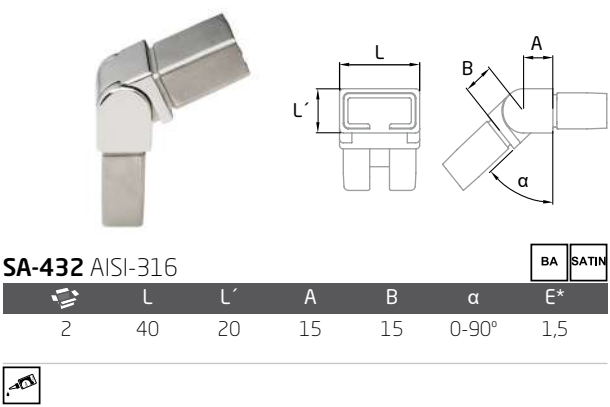
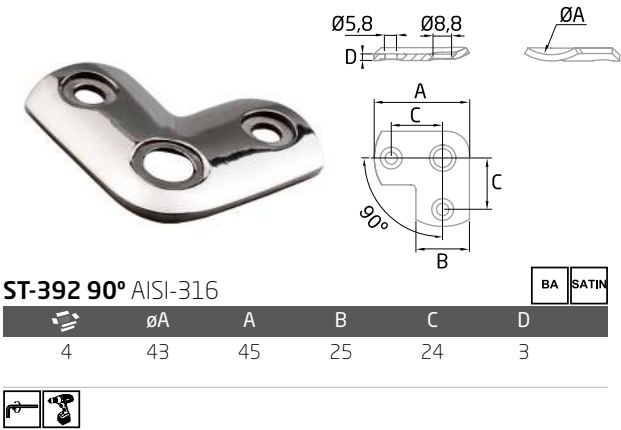
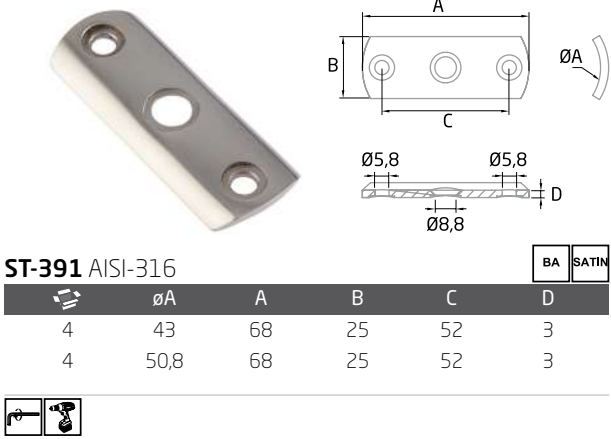
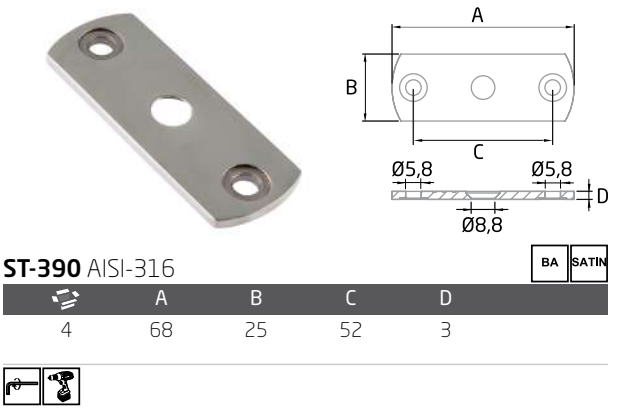
1

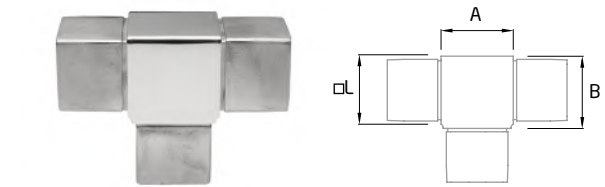


Instalación / Installation / Installation

1







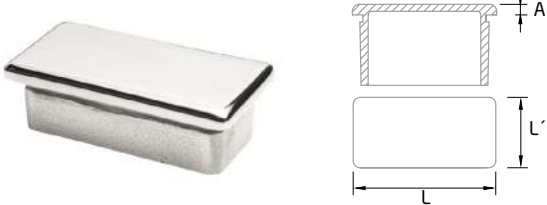
CT-222 AISI-316					BA	SATIN
	□ L	A	B	E*		
2	40x40	43	43	1,5		



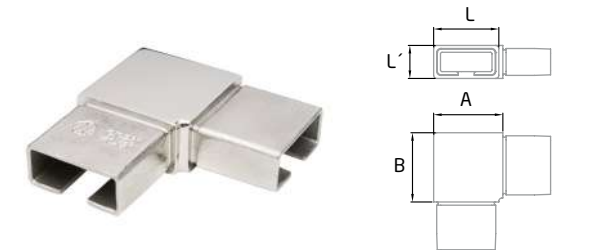
CT-225 AISI-316					BA	SATIN
	□ L	A	E*			
2	40x40	43	1,5			



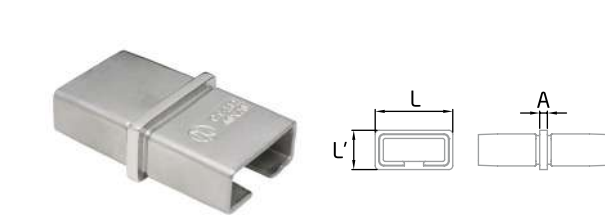
TF-530 AISI-316					BA	SATIN
	□ L	A	E*			
4	20x20	3	1,5			
2	30x30	3	1,5			
2	40x40	3	1,5			
2	50x50	3	1,5			



TF-535 AISI-316					BA	SATIN
	L	L'	A	E*		
4	20	10	3	1,5		
2	40	20	3	1,5		



CT-230 AISI-316						BA	SATIN
	L	L'	A	B	E*		
2	40	20	43	43	1,5		

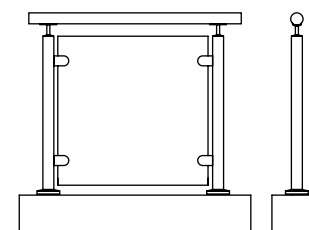


CT-232 AISI-316					BA	SATIN
	L	L'	A	E*		
2	40	20	4	1,5		



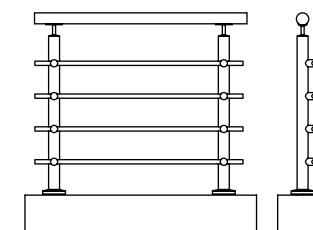
R-Concept

comenza
Railing Passion



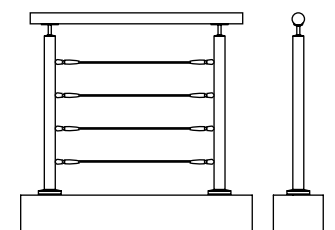
Sistema / System / Système
R-Concept: Glass

...

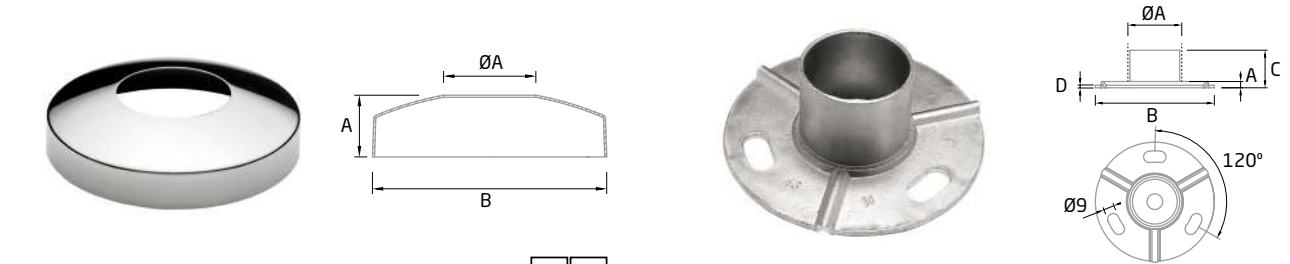


Sistema / System / Système
R-Concept: Tube

...



Sistema / System / Système
R-Concept: EasyCable



AV-650 AISI-316				BA	SATIN
	øA	A	B		
4	20	11,5	55		
2	38,1	22,5	99		
2	40	22,5	99		
2	43	22,5	99		
2	50,8	22,5	99		
2	63,5	24	110		

BS-00 AISI-316						
	øA	A	B	C	D	E*
2	38,1	5	95	35	2,5	1,5
2	43	5	95	35	2,5	1,5
2	50,8	5	95	35	2,5	1,5



RP-1430 AISI-316			BA	SATIN
LG	øA	E*		
6000	12	1		
6000	20	1,5		
6000	43	1,5		
6000	50,8	1,5		

Posibilidades de anclaje BS-00 / Anchoring possibilities for the BS-00 / Possibilités d'ancrage BS-00

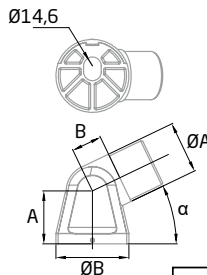
	C25/30 Uncracked	C25/30 Cracked / Uncracked
	FIS VS M-8 + DIN 975 + DIN 934 + DIN 125 (Brico Pag. 118/119)	FIS VS M-8 + DIN 975 + DIN 934 + DIN 125 (Brico Pag. 117/118)
	FIS VS M-12 + DIN 975 + DIN 934 + DIN 125 (Brico Pag. 117/118)	FIS VS M-12 + DIN 975 + DIN 934 + DIN 125 (Brico Pag. 117/118)

* Consultar idoneidad de usos según posibilidades de anclaje (Pag. 69)
Consult adequacy of uses according to anchoring possibilities (Pag. 69)
Vérifier la pertinence de l'utilisations par rapport au possibilités d'ancrage (Pag. 69)

* Cracked / Uncracked
Hormigón Traccionado / Hormigón Comprimido
Béton comprimé / Béton en traction

* Calidad recomendada de hormigón comprimido y traccionado C25/30.
Recommended quality for uncracked/cracked concrete C25/30.
Qualité recommandé du béton comprimé et en traction C25/30.





SA-451 AISI-316

	øA	øB	A	B	α
2	43	60	44,5	25	26-90°
2	50,8	72	53	30	26-90°

BA

SATIN



* 1 kit: 2pcs

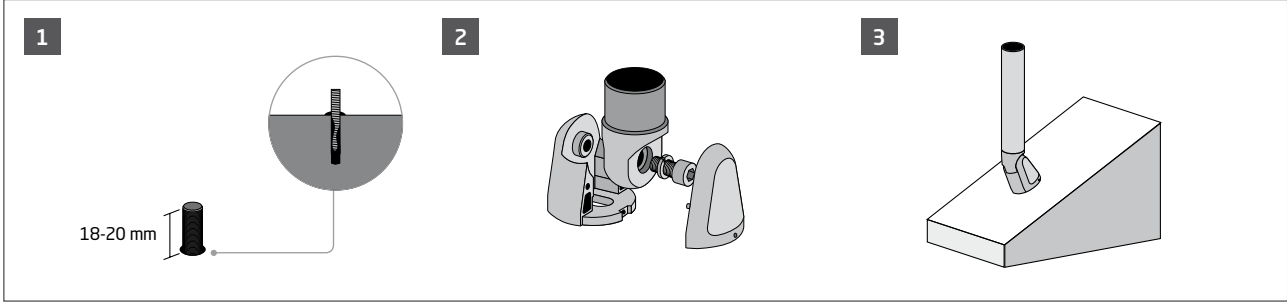
Posibilidades de anclaje SA-451 / Anchoring possibilities for the SA-451 / Possibilités d’ancrage SA-451

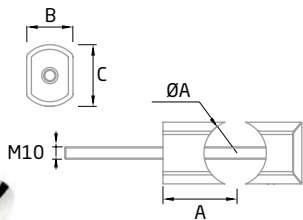
C25/30 Uncracked	C25/30 Cracked / Uncracked
FIS VS M-12 + DIN 975 + DIN 934 + DIN 125 <i>(Brico Pag. 117 / 118)</i>	FIS VS M-12 + DIN 975 + DIN 934 + DIN 125 <i>(Brico Pag. 117 / 118)</i>

- * Consultar idoneidad de usos según posibilidades de anclaje *(Pag. 69)*
Consult adequacy of uses according to anchoring possibilities *(Pag. 69)*
Vérifier la pertinence de l'utilisations par rapport au possibilités d'ancrage *(Pag. 69)*
- * Cracked / Uncracked
Hormigón Traccionado / Hormigón Comprimido
Béton comprimé / Béton en traction
- * Calidad recomendada de hormigón comprimido y traccionado C25/30.
Recommended quality for uncracked/cracked concrete C25/30.
Qualité recommandé du béton comprimé et en traction C25/30.

Instalación / Installation / Installation

SA-451





SL-1120 AISI-316

	øA	A	B	C
* 1 kit	43	53	30	40

BA

SATIN



* 1 kit: 2pcs

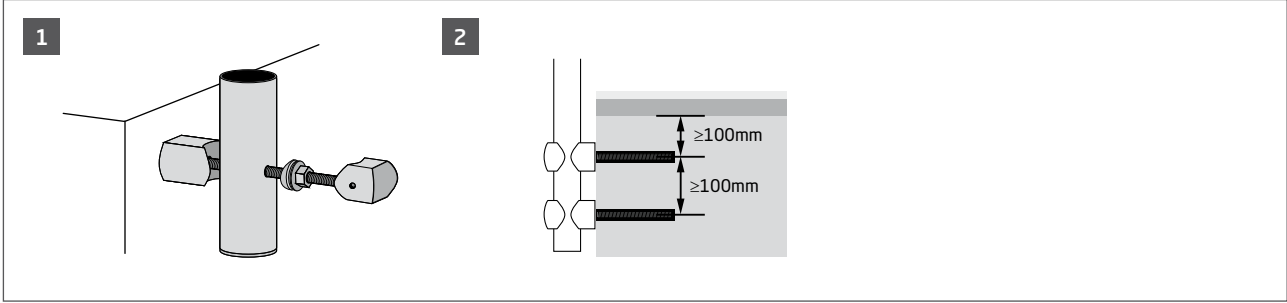
Posibilidades de anclaje SL-1120 / Anchoring possibilities for the SL-1120 / Possibilités d’ancrage SL-1120

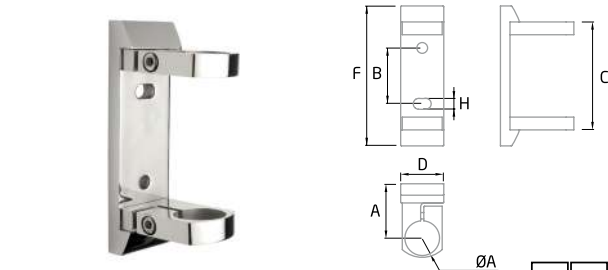
C25/30 Uncracked	C25/30 Cracked / Uncracked
FIS VS M-10 <i>(Brico Pag. 117)</i>	FIS VS 390 S M-10 <i>(Brico Pag. 117)</i>

- * Consultar idoneidad de usos según posibilidades de anclaje *(Pag. 69)*
Consult adequacy of uses according to anchoring possibilities *(Pag. 69)*
Vérifier la pertinence de l'utilisations par rapport au possibilités d'ancrage *(Pag. 69)*
- * Cracked / Uncracked
Hormigón Traccionado / Hormigón Comprimido
Béton comprimé / Béton en traction
- * Calidad recomendada de hormigón comprimido y traccionado C25/30.
Recommended quality for uncracked/cracked concrete C25/30.
Qualité recommandé du béton comprimé et en traction C25/30.

Instalación / Installation / Installation

SL-1120



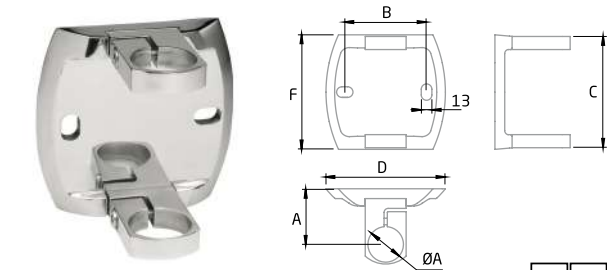


SL-1101 AISI-316								BA	SATIN
	øA	A	B	C	D	F	H		
1	43	68	70	135	54	175	13,5		
1	50,8	72	70	135	62	175	11		

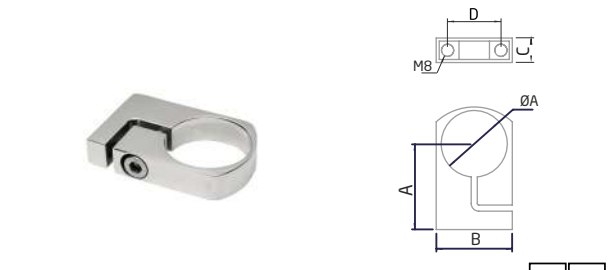


TF-590 AISI-316				BA	SATIN
	øA	A	M		
4	18	11	M8		
4	22,5	13	M10		

Tapa para cabeza de tornillo
End cap for screw head
Bouchon pour vis



SL-1100 AISI-316							BA	SATIN
	øA	A	B	C	D	F		
1	43	68	100	136	146	140		



SL-1180 AISI-316						BA	SATIN
	øA	A	B	C	D		
2	43	56	50	16	35		



Posibilidades de anclaje SL-1101 / Anchoring possibilities for the SL-1101 / Possibilités d'ancrage SL-1101

C25/30 Uncracked	C25/30 Cracked / Uncracked
FBN II M-10 L-95 (Brico Pag. 119)	FAZ II M-10 L-105 (Brico Pag. 119)
FIS VS M-10 + DIN 975 + DIN 934 + DIN 125 (Brico Pag. 117 / 118)	FIS VS M-10 + DIN 975 + DIN 934 + DIN 125 (Brico Pag. 117 / 118)

* Consultar idoneidad de usos según posibilidades de anclaje (Pag. 69)
Consult adequacy of uses according to anchoring possibilities (Pag. 69)
Vérifier la pertinence de l'utilisations par rapport au possibilités d'ancrage (Pag. 69)

* Cracked / Uncracked
Hormigón Traccionado / Hormigón Comprimido
Béton comprimé / Béton en traction

* Calidad recomendada de hormigón comprimido y traccionado C25/30.
Recommended quality for uncracked/cracked concrete C25/30.
Qualité recommandé du béton comprimé et en traction C25/30.

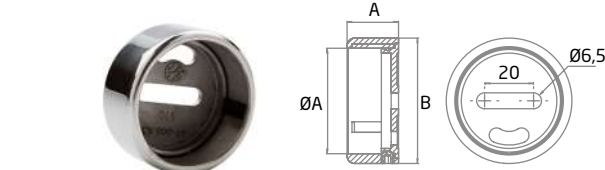
Posibilidades de anclaje SL-1100 / Anchoring possibilities for the SL-1100 / Possibilités d'ancrage SL-1100

C25/30 Uncracked	C25/30 Cracked / Uncracked
FBN II M-12 L-116 (Brico Pag. 119)	FAZ II M-12 L-120 (Brico Pag. 119)
FIS VS M-12 + DIN 975 + DIN 934 + DIN 125 (Brico Pag. 117 / 118)	FIS VS M-12 + DIN 975 + DIN 934 + DIN 125 (Brico Pag. 117 / 118)

* Consultar idoneidad de usos según posibilidades de anclaje (Pag. 69)
Consult adequacy of uses according to anchoring possibilities (Pag. 69)
Vérifier la pertinence de l'utilisations par rapport au possibilités d'ancrage (Pag. 69)

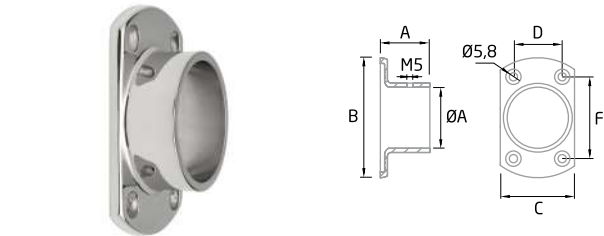
* Cracked / Uncracked
Hormigón Traccionado / Hormigón Comprimido
Béton comprimé / Béton en traction

* Calidad recomendada de hormigón comprimido y traccionado C25/30.
Recommended quality for uncracked/cracked concrete C25/30.
Qualité recommandé du béton comprimé et en traction C25/30.



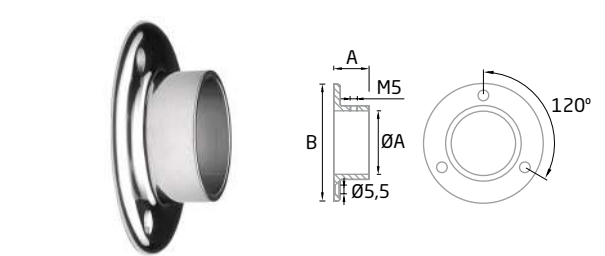
AV-606 AISI-316				BA	SATIN
	øA	A	B		
2	43	21	51,3		

BR-2087 (Brico Pag. 120)



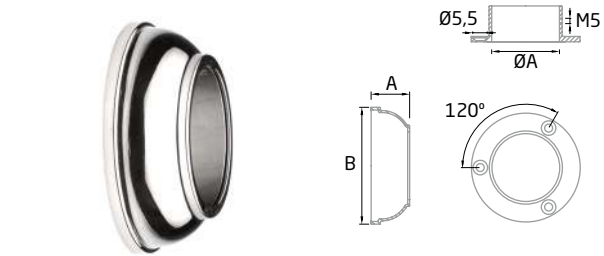
AV-600 AISI-316							BA	SATIN
	øA	A	B	C	D	F		
2	43	35	85	52,5	34,5	58		

BR-2087 (Brico Pag. 120)



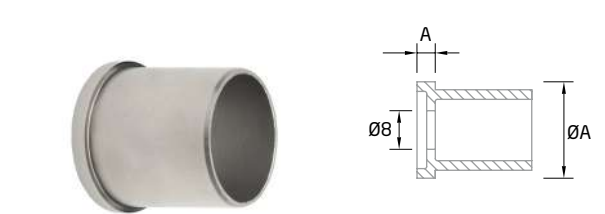
AV-601 AISI-316				BA	SATIN
	øA	A	B		
2	43	25	80		
2	50,8	31	102		

BR-2087 (Brico Pag. 120)



AV-602 AISI-316				BA	SATIN
	øA	A	B		
2	38,1	27	72		
2	43	27	82		
2	50,8	29	84		

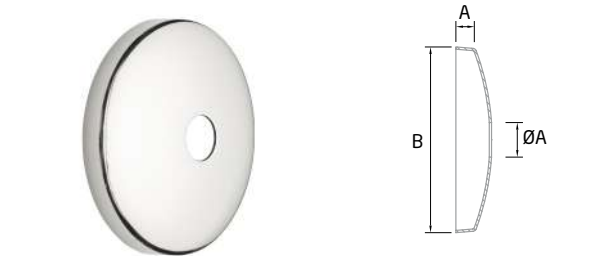
BR-2087 (Brico Pag. 120)



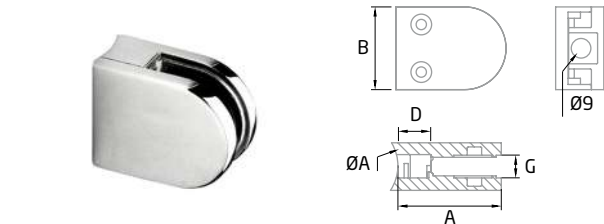
ST-308 AISI-316				BA	SATIN
	øA	A	E*		
4	20	4	1,5		
2	43	4	1,5		

DIN 7981 (Brico Pag. 115)

BR-2087 (Brico Pag. 120)



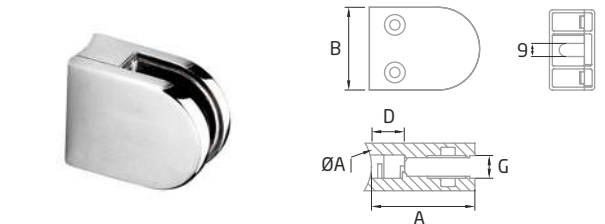
AV-651 AISI-316				BA	SATIN
	øA	A	B		
4	12	6	66		



CC-701 AISI-316						BA	SATIN
	øA	A	B	D	G		
4	43	50	40	16	6-8		
4	50,8	50	40	16	6-8		
4	43	50	40	16	8-10		
4	50,8	50	40	16	8-10		
4	43	50	40	16	10-12		
4	50,8	50	40	16	10-12		

DIN-912 M-8 L-20 (Brico Pag. 114)

BR-2011 M-8 (Brico Pag. 115)

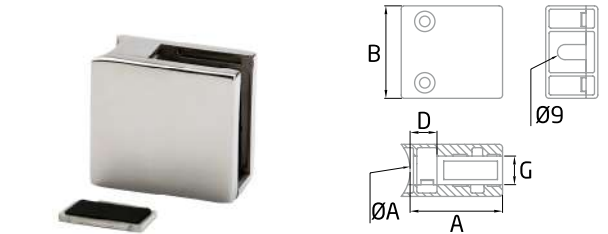


CC-703 AISI-316						BA	SATIN
	øA	A	B	D	G		
4	43	60	55	16	12-16,76		
4	50,8	60	55	16	12-16,76		

DIN-912 M-8 L-20 (Brico Pag. 114)

BR-2011 M-8 (Brico Pag. 115)





CC-725 AISI-316							BA	SATIN
	øA	A	B	D	G			
4	43	45	45	16	6-10,76			

DIN-912 M-8 L-20 (Brico Pag. 114)

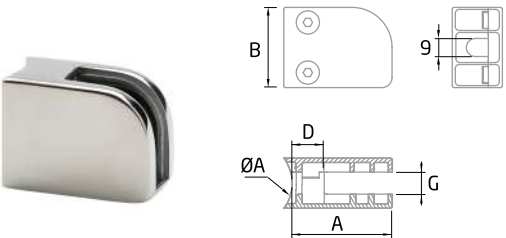
BR-2011 M-8 (Brico Pag. 115)



CC-721 AISI-316							BA	SATIN
	øA	A	B	D	G			
4	43	44	44	16	8-10			
4	50,8	44	44	16	8-10			

DIN-912 M-8 L-20 (Brico Pag. 114)

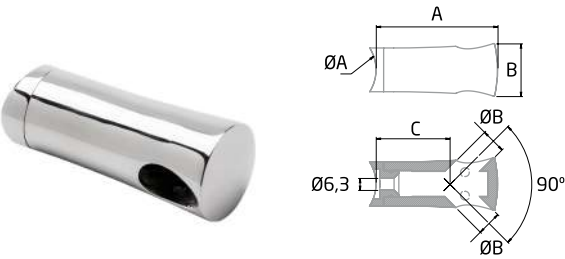
BR-2011 M-8 (Brico Pag. 115)



CC-751 AISI-316								BA	SATIN
	øA	A	B	D	L/R	G			
4	43	50	40	16	L/R	8-10			

DIN-912 M-8 L-20 (Brico Pag. 114)

BR-2011 M-8 (Brico Pag. 115)



ST-370 AISI-316							BA	SATIN
	øA	øB	A	B	C			
4	43	12	64	28	38,8			

DIN-7991 M-6 L-25 (Brico Pag. 114)

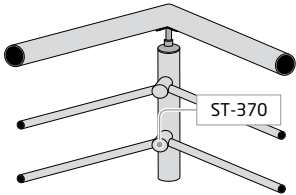
BR-2011 M-6 (Brico Pag. 115)

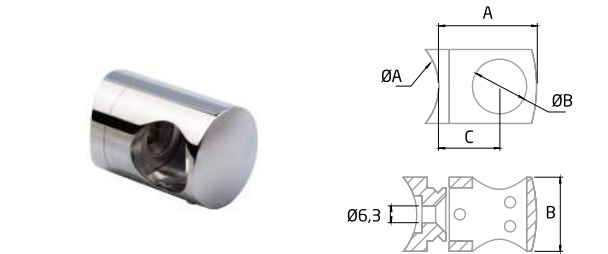


Instalación / Installation / Installation

ST-370

1

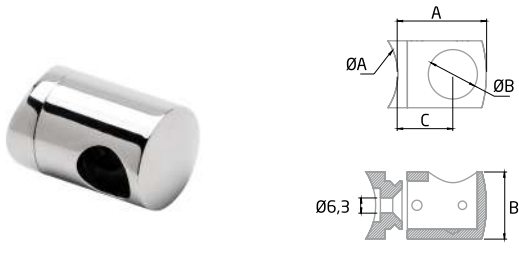




ST-320 AISI-316						BA	SATIN
	ØA	ØB	A	B	C		
4	43	12	29,5	20	20		
4	50,8	12	29,5	20	20		
4	43	16	33	24	21		
4	43	20	37	28	23		
4	50,8	20	37	28	23		

DIN-7991 M-6 L-25 (Brico Pag. 114)

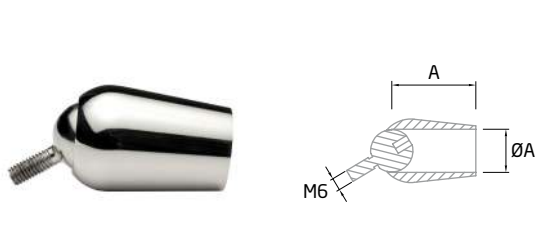
BR-2011 M-6 (Brico Pag. 115)



ST-322 AISI-316								BA	SATIN
	ØA	ØB	A	B	C	L/R			
4	43	12	29,5	20	20	L/R			
4	43	20	37	28	23	L/R			

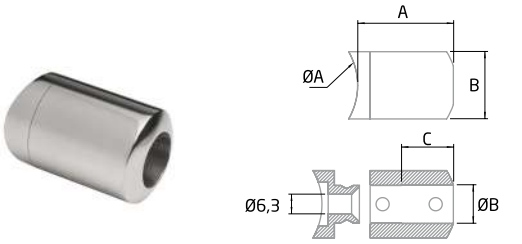
DIN-7991 M-6 L-25 (Brico Pag. 114)

BR-2011 M-6 (Brico Pag. 115)



SA-405 AISI-316			BA	SATIN
	ØA	A		
4	12	31		
4	20	42		

BR-2011 M-6 (Brico Pag. 115)



ST-325 AISI-316							BA	SATIN
	ØA	ØB	A	B	C			
4	43	12	30,7	21,5	16			

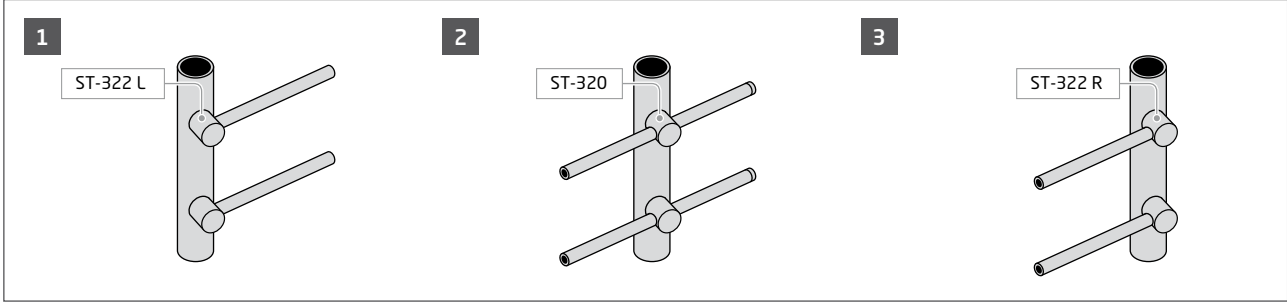
DIN-7991 M-6 L-25 (Brico Pag. 114)

BR-2011 M-6 (Brico Pag. 115)



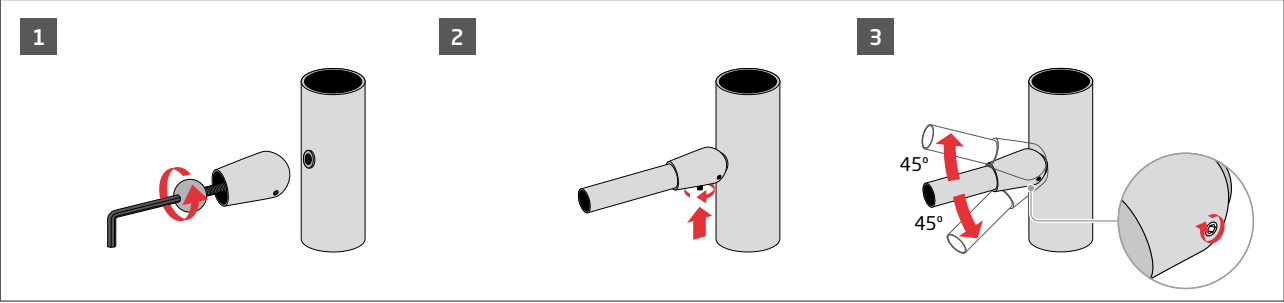
Instalación / Installation / Installation

ST-320 / ST-322



Instalación / Installation / Installation

SA-405





SC-800 AISI-316				BA	SATIN
	ØC	B			
2	4-5 mm	112			

BR-2011 M-6 (Brico Pag. 115)

Tensor
Tensioner
Tendeur



SC-801 AISI-316				BA	SATIN
	ØC	B			
2	4-5 mm	71			

BR-2011 M-6 (Brico Pag. 115)

Terminal
Terminal
Terminaison



SC-850 AISI-316				BA	SATIN
	ØC	B			
4	4-5 mm	20			

BR-2011 M-8 (Brico Pag. 115)

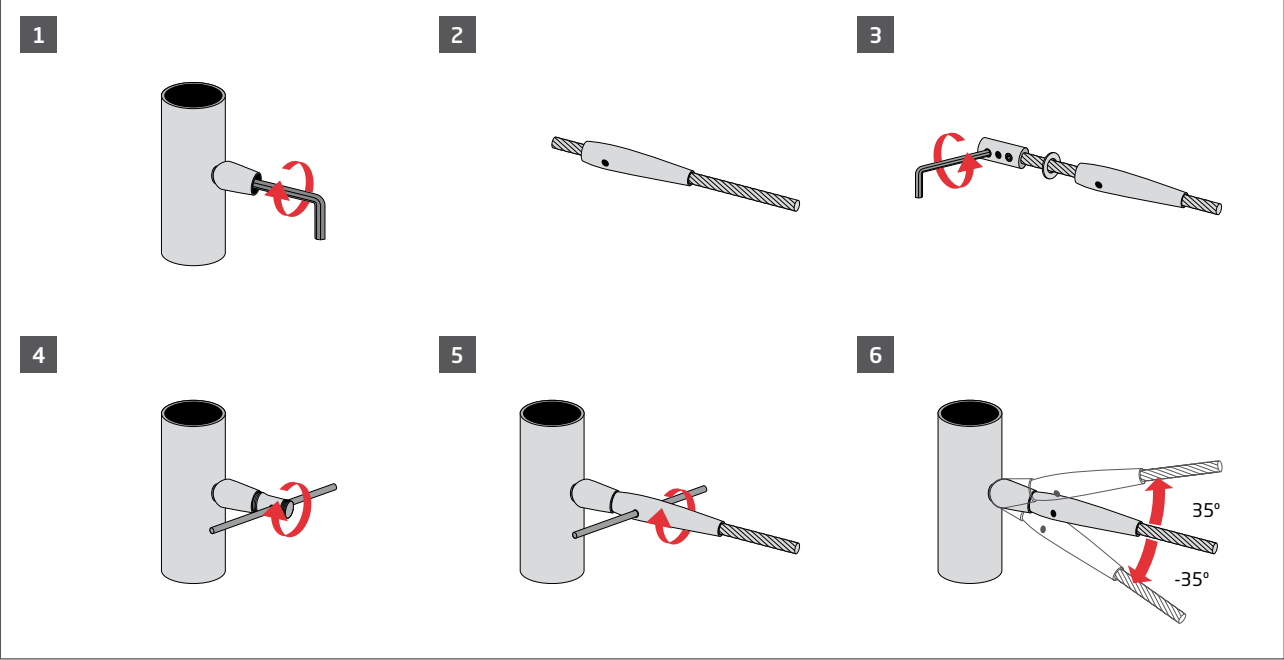
Stopper



RP-1460 AISI 316		
ØC	L	
4	Consultar / Inquire / Consulter	
5	Consultar / Inquire / Consulter	

Instalación / Installation / Installation

SC-800 / SC-801



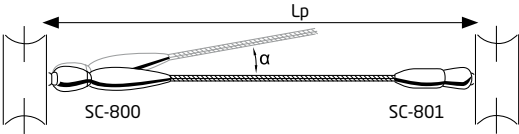
Ver video de instalación en / Watch installation video at / Voir video d'installation à www.comenza.com

Recomendaciones / Recommendations / Recommendations

Cable Recomendado.
Recommended wire.
Câble recommandé.



7+7+0 semi-flexible



Máx: 10m Lc=(Lp/cos α)-ØT-105+10

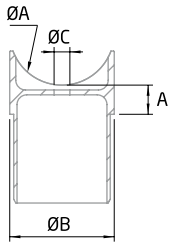
Lc: Longitud del cable / Cable Lenght / Longueur câble
Lp: Longitud entre centros de pilares / Length between pillar centers / Longueur entre les centres des piliers
ØT: Ø tubo / Ø tube

(Los datos reflejados están basados en ensayos realizados con cálculo elementos finitos y verificados en nuestras instalaciones con ensayos físicos. Es responsabilidad del usuario establecer la idoneidad de la información facilitada con el uso particular que vaya a realizar del producto)

(The data indicated are based on tests conducted by finite element calculation and checked at our facilities with physical tests. The user is responsible of determining the adequacy of the information provided to the particular use of the product)

(Les informations présentes s'appuient sur des tests réalisés par calcul par éléments finis et vérifié par au sein de nos installations par de essais physique. Il incombe à l'utilisateur de définir le bien fondé de l'information fournie et de la recouper en fonction de l'usage qu'il fera lui-même du produit)





ST-309 AISI-316						BA	SATIN
	ØA	ØB	ØC	A	E*		
4	43	20	8	4	1,5		
2	43	43	6,5	12	1,5		
2	50,8	50,8	8,5	9	1,5		

DIN-912 M-6/M-8 L-20 (Brico Pag. 114)

BR-2011 M-6/M-8 (Brico Pag. 115)



ST-310 AISI-316

	ØA	ØB	A	E*
2	43	43	4,5	1,5
2	50,8	50,8	8	1,5

DIN-912 M-6 L-20 (Brico Pag. 114)

BR-2011 M-6 (Brico Pag. 115)



SA-449 AISI-316

2

ØA

43

ØB

43

A

43

B

60

BA

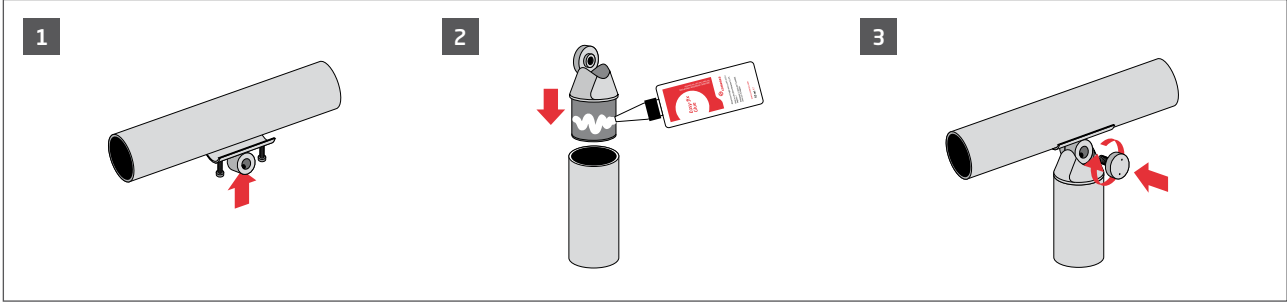
SATIN

E*

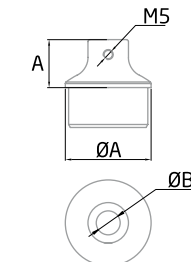
1,5

Instalación / Installation / Installation

SA-449





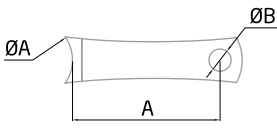


SA-420 AISI-316

BA SATIN

	ØA	ØB	A	E*
2	43	12,5	24	1,5
2	50,8	12,5	24	1,5





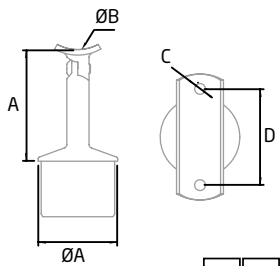
SA-421 AISI-316

BA SATIN

	ØA	ØB	A
2	43	12	80

DIN-7991 M-6 L-40 (Brico Pag. 114)
BR-2011 M-6 (Brico Pag. 115)



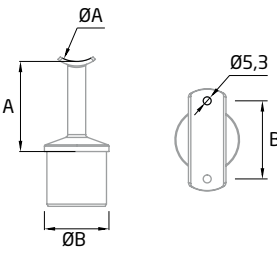


SA-404 AISI-316

BA SATIN

	ØA	ØB	A	B	C	E*
2	43	43	60	52	5,8	1,5
2	50,8	50,8	65	52	5,8	1,5



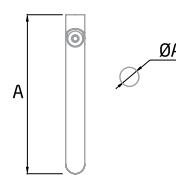


ST-302 AISI-316

BA SATIN

	ØA	ØB	A	B	E*
2	43	43	60	52	1,5
2	50,8	50,8	65	60	1,5



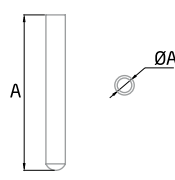


BG-00 AISI-316

BA SATIN

	ØA	A
2	12	100



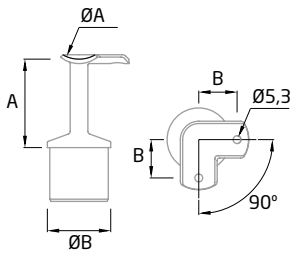


BF-00 AISI-316

BA SATIN

	ØA	A
2	12	96



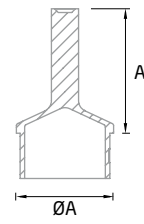


ST-319 AISI-316

BA SATIN

	ØA	ØB	A	B	E*
2	43	43	60	26	1,5
2	50,8	50,8	65	30	1,5





ST-330 AISI-316

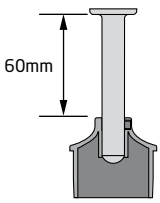
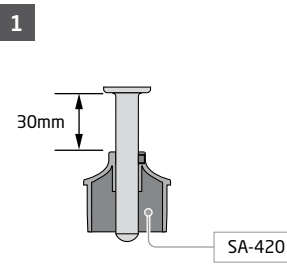
BA SATIN

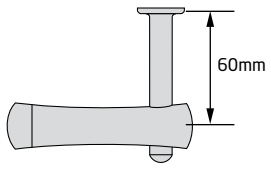
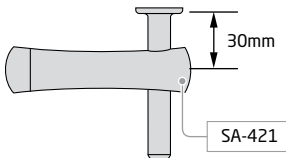
	ØA	A	E*
2	43	55	1,5
2	50,8	55	1,5

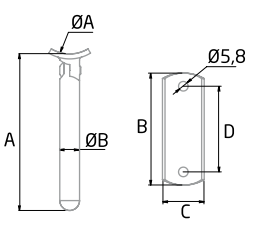


Instalación / Installation / Installation

SA-420 / SA-421





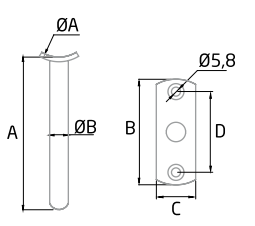


BA

SATIN

	ØA	ØB	A	B	C	D
2	43	12	95	68	25	52
2	50,8	12	95	68	25	52



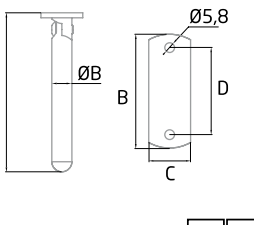


BA

SATIN

	ØA	ØB	A	B	C	D
2	43	12	98	68	25	52
2	50,8	12	98	68	25	52



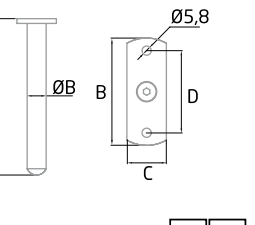


BA

SATIN

	ØB	A	B	C	D
2	12	95	68	25	52



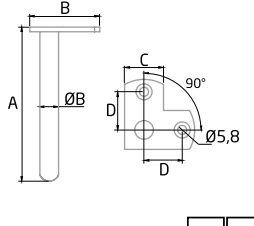


BA

SATIN

	ØB	A	B	C	D
2	12	99	68	25	52



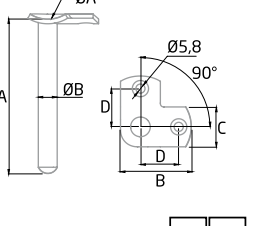


BA

SATIN

	ØB	A	B	C	D
2	12	99	45	25	24,5





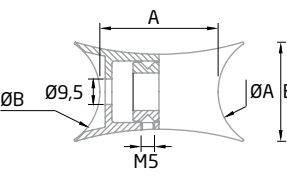
BA

SATIN

	ØA	ØB	A	B	C	D
2	43	12	98	45	25	24
2	50,8	12	98	45	25,5	24







BA

SATIN

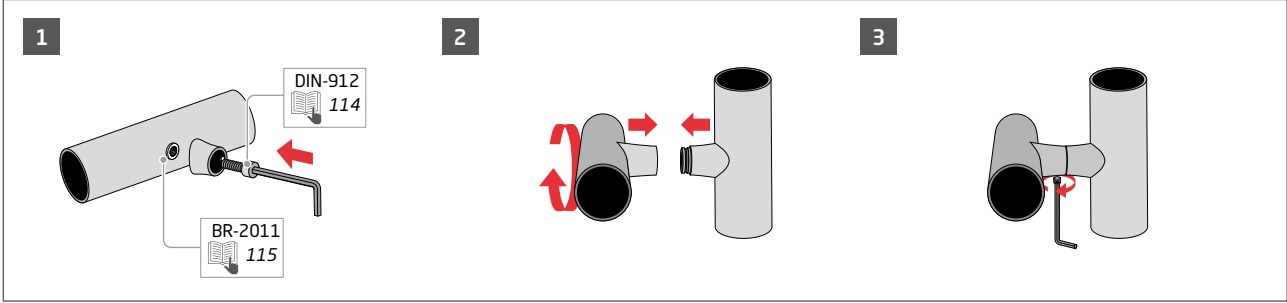
	ØA	ØB	A	B
2	43	43	44	37
2	50,8	50,8	44	37

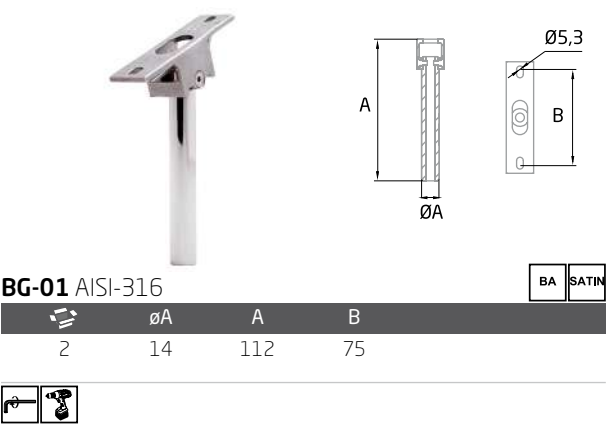
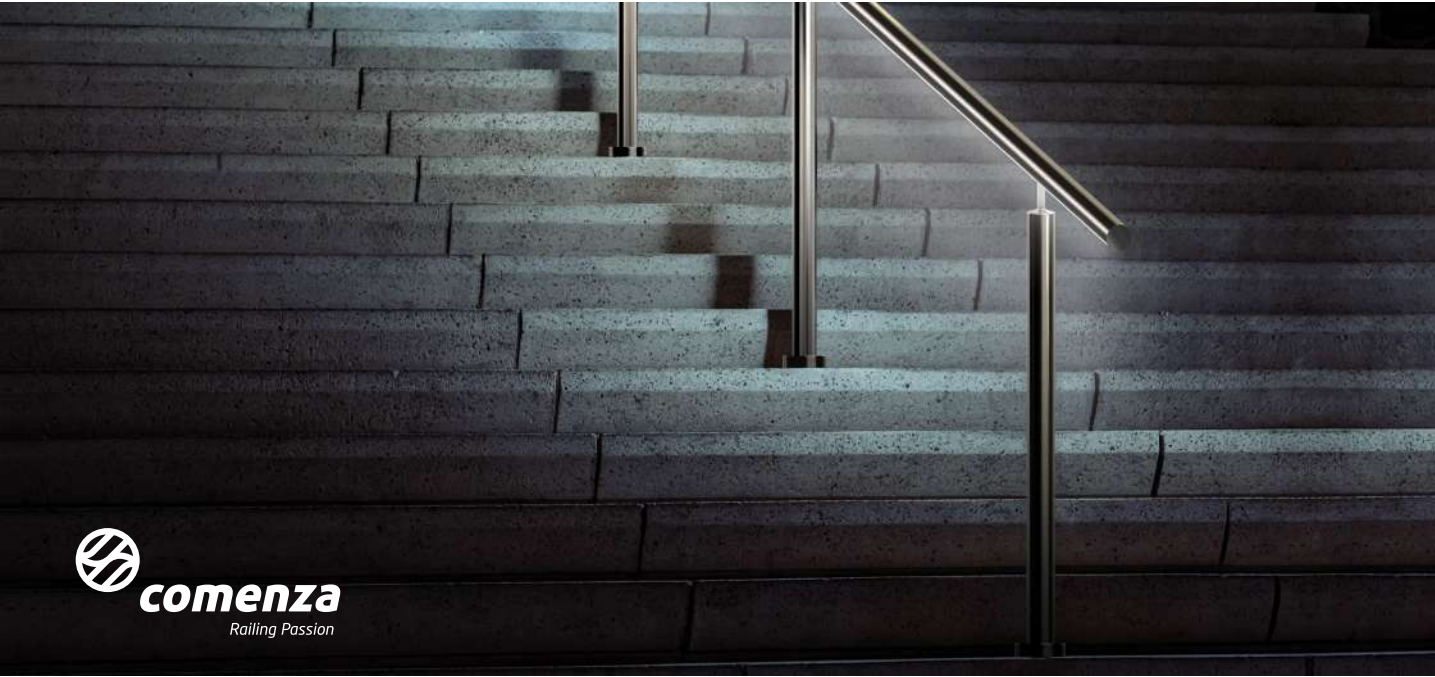
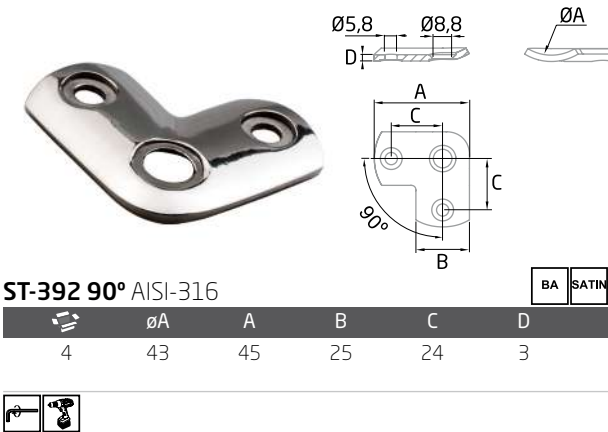
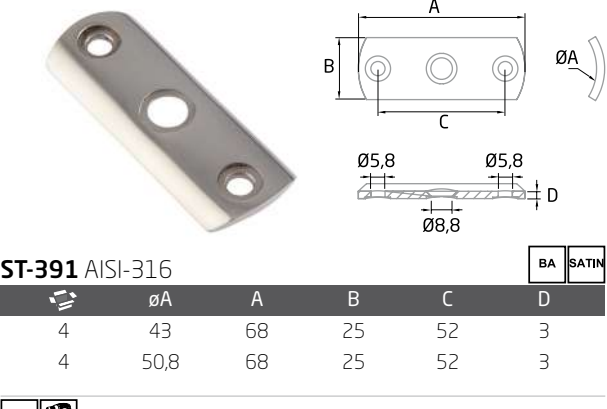
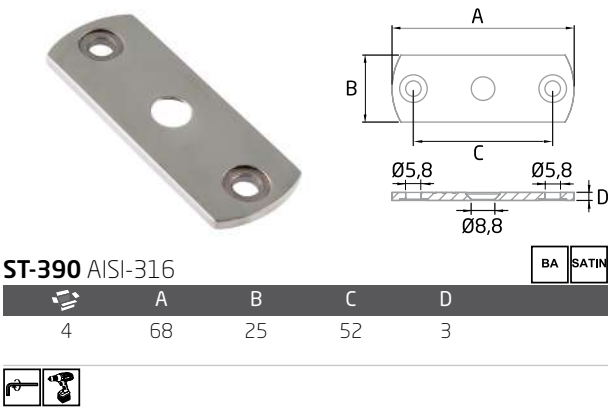
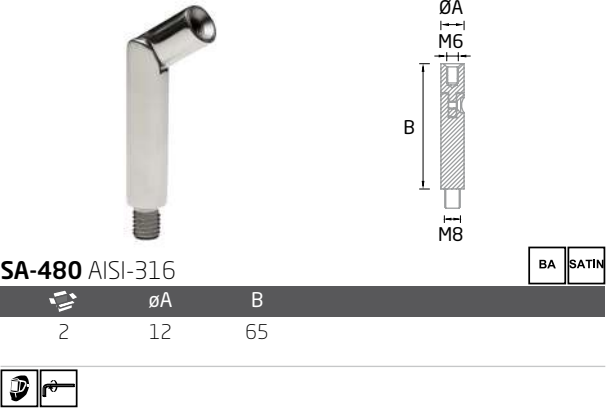
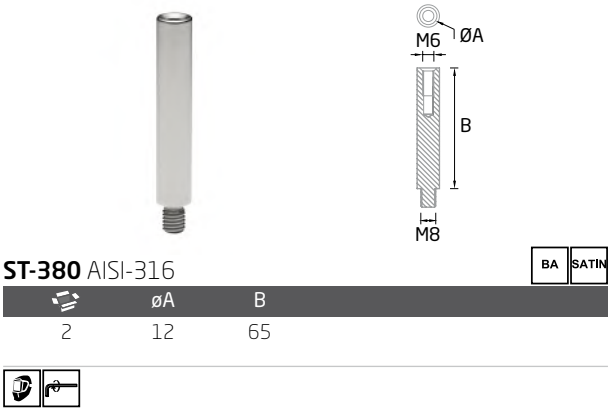
DIN-912 M-8 L-20 (Brico Pag. 114)
BR-2011 M-8 (Brico Pag. 115)



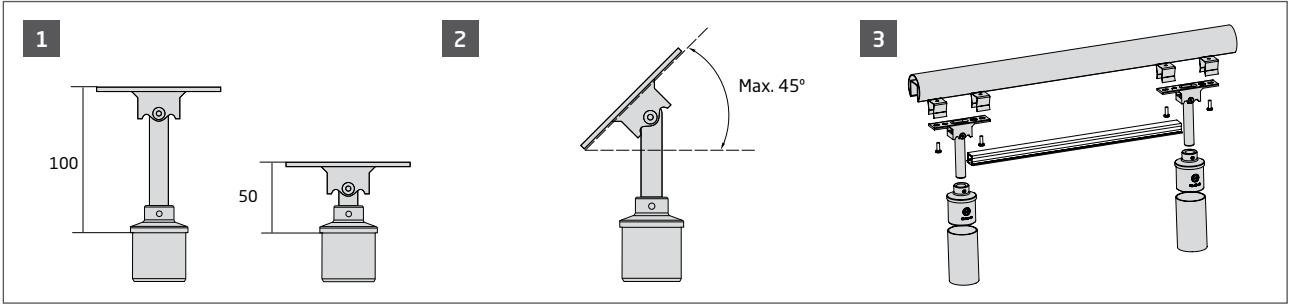
Instalación / Installation / Installation

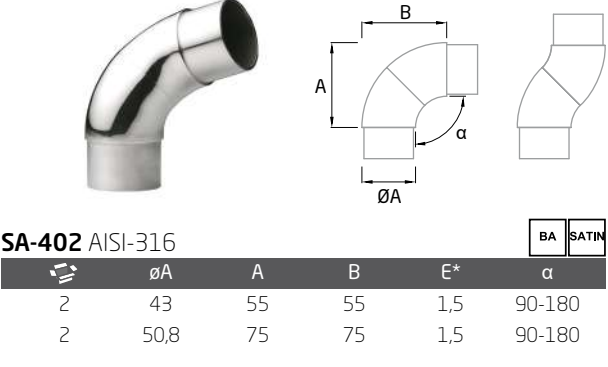
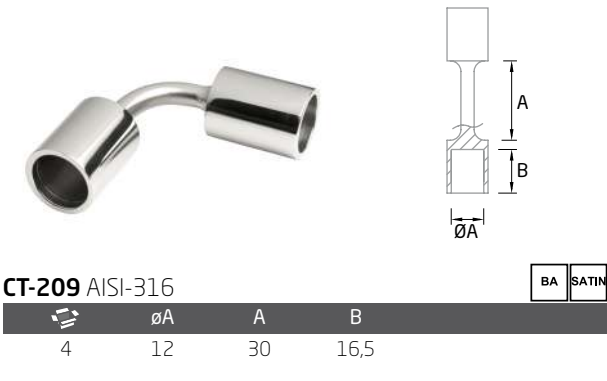
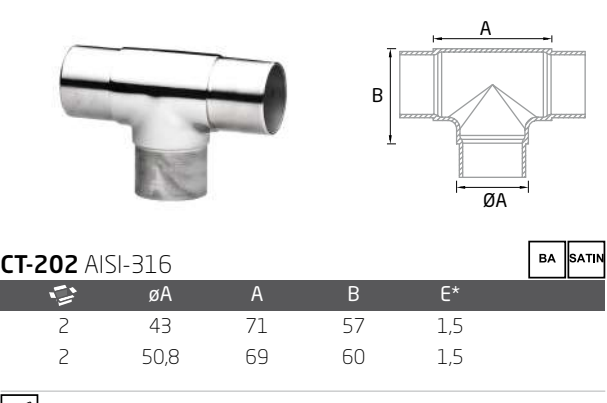
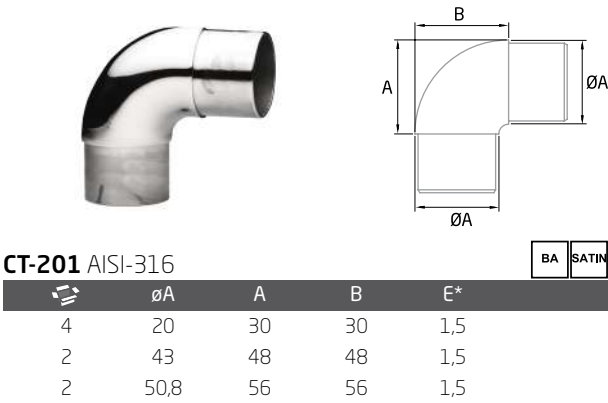
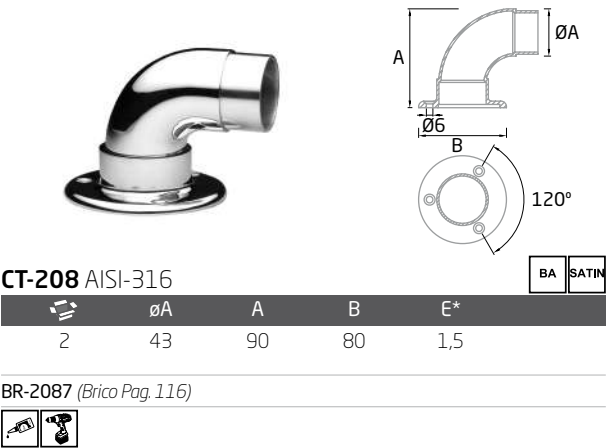
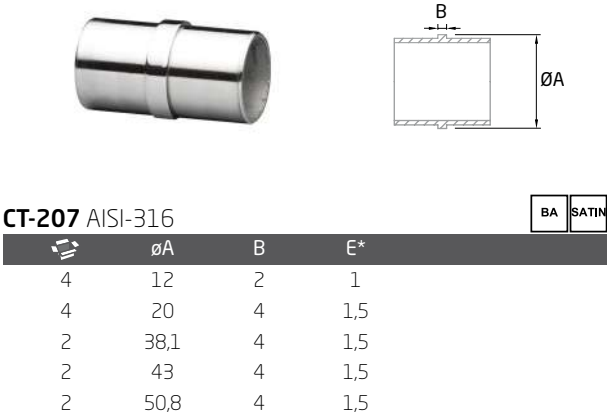
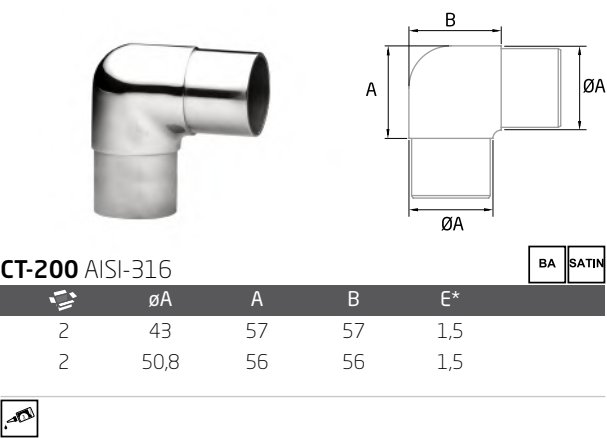
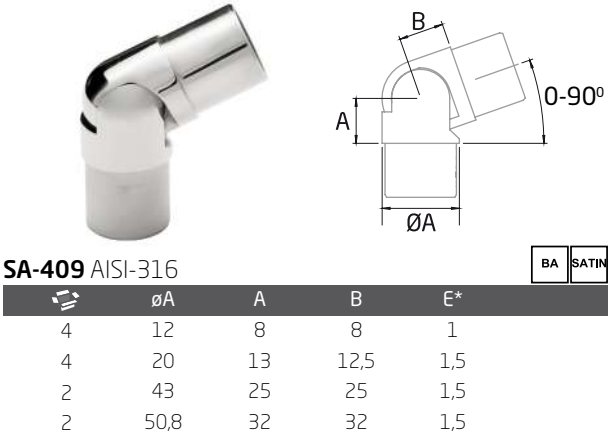
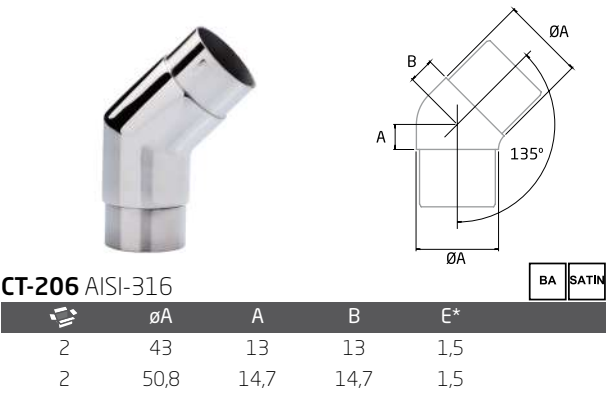
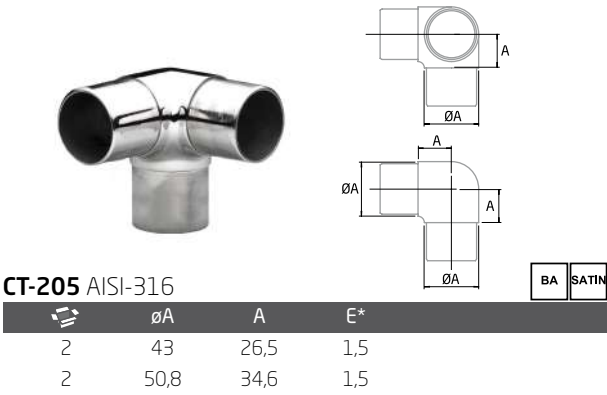
ST-312



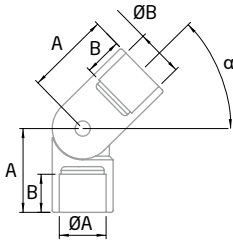


Instalación / Installation / Installation









SA-486 AISI-316

BA

SATIN

	øA	øB	A	B	α
4	12	12	22	10	0-90







TF-502 AISI-316				BA	SATIN
	øA	A	E*		
4	12	2	1		
4	15	2	1,5		
4	16	2	1,5		
4	18	2	1,5		
4	20	2	1,5		
4	25	2	1,5		
2	30	2	1,5		
2	33	2	1,5		
2	38,1	2	1,5		
2	40	2	1,5		
2	43	2	1,5		
2	50,8	2	1,5		
2	63,5	2	1,5		



TF-507 AISI-316				BA	SATIN
	øA	A	E*		
2	43	4	1,5		
2	50,8	4	1,5		



TF-501 AISI-316				BA	SATIN
	øA	A	E*		
2	43	21,5	1,5		
2	50,8	25	1,5		



TF-505 AISI-316				BA	SATIN
	øA	A	E*		
2	43	9,5	1,5		
2	50,8	12	1,5		

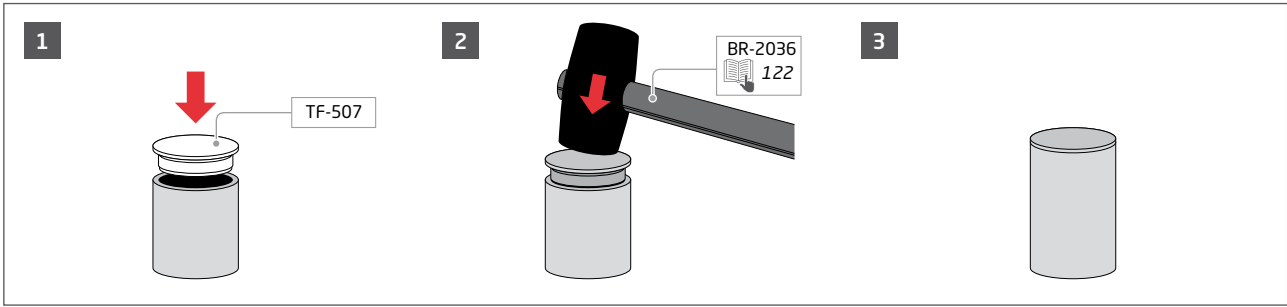


TF-503 AISI-316				BA	SATIN
	øA	A	E*		
2	43	8,4	1,5		
2	50,8	8,4	1,5		



TF-504 AISI-316		BA	SATIN
	øA		
2	50		
2	70		

Instalación / Installation / Installation

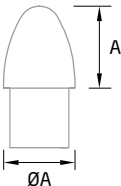


TF-507



TF-506 AISI-316					BA	SATIN
	øA	A	B	E*		
2	50,8	83	80	1,5		





TF-508

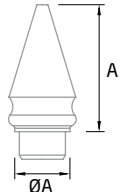
AISI-316

BA

SATIN

	øA	A	E*
4	12	14	1





TF-509

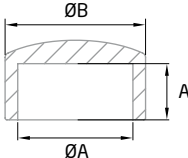
AISI-316

BA

SATIN

	øA	A	E*
4	20	46	1,5





TF-510

AISI-316

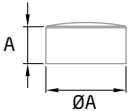
BA

SATIN

	øA	øB	A
4	12	15	6

Tapa para varilla
End cap for rods
Bouchon pour tige





TF-590

AISI-316

BA

SATIN

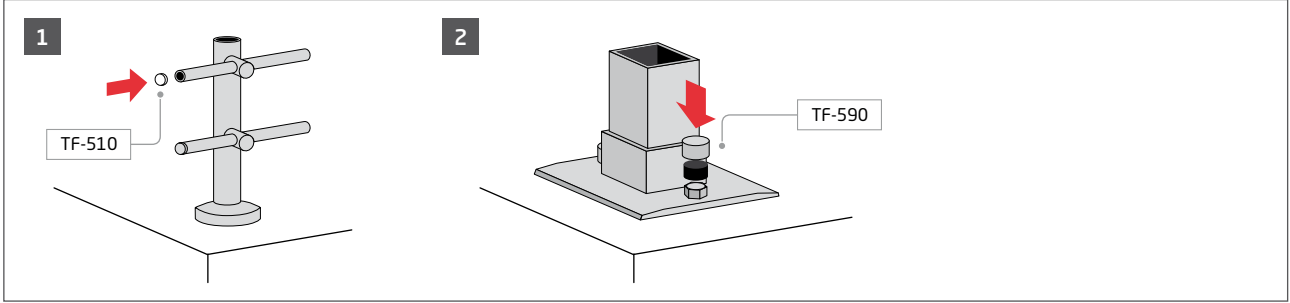
	øA	A	M
4	18	11	M8
4	22,5	13	M10

Tapa para cabeza de tornillo
End cap for screw head
Bouchon pour vis



Instalación / Installation / Installation

TF-510 / TF-590



Posibilidades de anclaje

Anchoring possibilities

Possibilités d'ancrage

- * Consultar idoneidad de usos según parámetros de instalación
Consult adequacy of uses according to installation parameters
Vérifier la pertinence de l'utilisations par rapport au paramètres d'installation
- ** Calidad recomendada de hormigón comprimido y traccionado C25/30
Recommended quality for uncracked/cracked concrete C25/30
Qualité recommandé du béton comprimé et en traction C25/30

MINIMAL

HORMIGÓN COMPRIMIDO / UNCRACKED / BETÓN COMPRIMÉ

	Taco químico / Chemical anchor / Ancrage chimique	Anclaje metálico / Anchor bolt / Cheville metallique
	FIS VS 300T	FBN II
	M-10*	M-10
BS-20  11	●	●

* DIN-975 + DIN-934 + DIN-125 (Brico 110)
** DIN-933 + DIN-125 (Brico 106 + 110)

HORMIGÓN COMPRIMIDO - HORMIGÓN TRACCIONADO / CRACKED - UNCRACKED / BÉTON COMPRIMÉ - BÉTON EN TRACTION

	Taco químico / Chemical anchor / Ancrage chimique	Anclaje metálico / Anchor bolt / Cheville metallique
	FIS VS 300T	FAZ II
	M-10*	M-10
BS-20  11	●	●

* DIN-975 + DIN-934 + DIN-125 (Brico 110)
** Anclaje metálico sin taco químico. / Anchor bolt. / Ancrage métallique.

SQUARE IT

HORMIGÓN COMPRIMIDO / UNCRACKED / BETÓN COMPRIMÉ

	Taco químico / Taco químico / Ancrage chimique		Anclaje metálico / Anchor bolt / Cheville metallique
	FIS VS		FBN II
	M-10*	M-12*	M-12
BS-10  15	●		
SL-1111  16	●		●
SL-1110  17	●	●	●
SL-1130**  18	●		

* DIN-975 + DIN-934 + DIN-125 (Brico 110)
** DIN-975 + DIN-934 + DIN-125 (Incluido en el embalaje / Included in the packaging / Inclus dand l'emballage)

HORMIGÓN COMPRIMIDO - HORMIGÓN TRACCIONADO / CRACKED - UNCRACKED / BÉTON COMPRIMÉ - BÉTON EN TRACTION

	Taco químico / Chemical anchor / Ancrage chimique		Anclaje metálico / Anchor bolt / Cheville metallique	
	FIS VS		FAZ II	
	M-10*	M-12*	M-10	M-12
BS-10  15	●		●	
SL-1111  16	●			●
SL-1110  17	●	●		●
SL-1130**  18	●			

* DIN-975 + DIN-934 + DIN-125 (Brico 110)
** DIN-975 + DIN-934 + DIN-125 (Incluido en el embalaje / Included in the packaging / Inclus dand l'emballage)

R-CONCEPT

HORMIGÓN COMPRIMIDO / UNCRACKED / BETÓN COMPRIMÉ

	Taco químico / Chemical anchor / Ancrage chimique			Anclaje metálico / Anchor bolt / Cheville metallique	
	FIS VS			FBN II	
	M-8*	M-10*	M-12*	M-10	M-12
BS-00  39	●		●		
SA-451  40			●		
SL-1120**  41		●			
SL-1101  42		●		●	
SL-1100  43			●		●

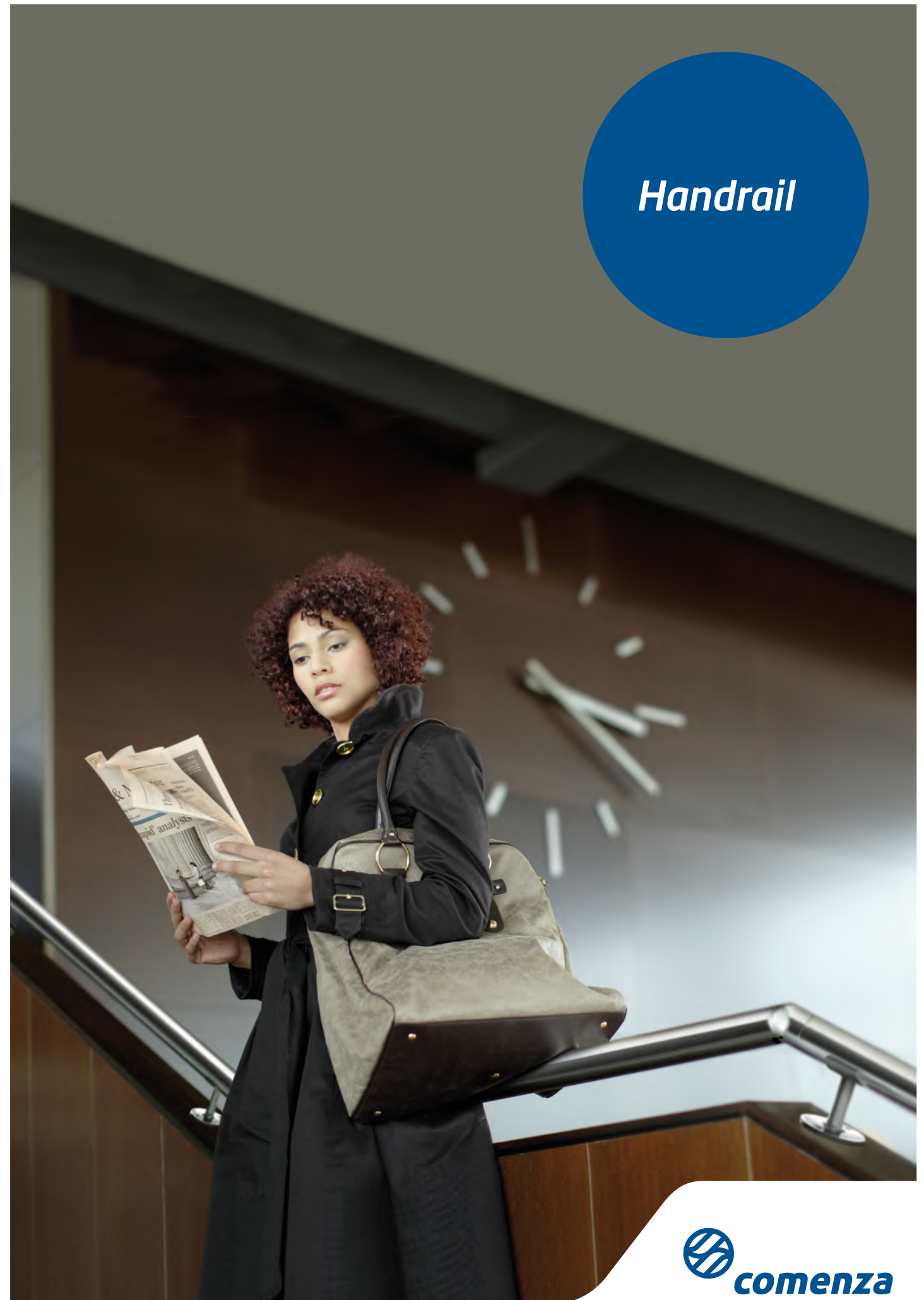
* DIN-975 + DIN-934 + DIN-125 (Brico 110)
** DIN-975 + DIN-934 + DIN-125 (Incluido en el embalaje / Included in the packaging / Inclus dand l'emballage)

HORMIGÓN COMPRIMIDO - HORMIGÓN TRACCIONADO / CRACKED - UNCRACKED / BÉTON COMPRIMÉ - BÉTON EN TRACTION

	Taco químico / Chemical anchor / Ancrage chimique			Anclaje metálico / Anchor bolt / Cheville metallique	
	FIS VS			FAZ II	
	M-8*	M-10*	M-12*	M-10	M-12
BS-00  39	●		●		
SA-451  40			●		
SL-1120 **  41		●			
SL-1101  42		●		●	
SL-1100  43			●		●

* DIN-975 + DIN-934 + DIN-125 (Brico 110)
** DIN-975 + DIN-934 + DIN-125 (Incluido en el embalaje / Included in the packaging / Inclus dand l'emballage)

Handrail





[esp]
Pasamanos de diseño japonés

A pesar de los casi 10.600 km que nos separan de la tierra del Sol Naciente, desde Comenza nos hemos propuesto fusionar la cultura gallega y la japonesa con la idea de desarrollar nuestra gama de pasamanos más especial. De este afán por buscar un punto de encuentro con el estilo nipón, nace **Sekkei Handrail**, diseñada en exclusiva por el conocido diseñador japonés **Ryosuke Fukusada** con la colaboración de Comenza.

Sekkei significa diseño en japonés y es que cada uno de los sistemas de pasamanos que pertenecen a esta gama se caracteriza por su **diseño único** y su estética vanguardista. Además, todos los sistemas de pasamanos Sekkei Handrail cumplen con los requisitos normativos de **seguridad** exigidos por el CTE y son de **fácil montaje** gracias a la distribución de los orificios de la base y al mecanismo que sostiene el embellecedor.

[eng]
Japanese-designed handrails

Despite the almost 6,600 miles between us and the Land of the Rising Sun, at Comenza, we have set out to create a fusion between Galician and Japanese culture by developing our most special line of handrails yet. In our quest to find common ground with Japanese style, the **Sekkei Handrail** was born, exclusively designed by renowned Japanese designer **Ryosuke Fukusada** in collaboration with Comenza.

Sekkei means "design" in Japanese, and each handrail system in this line is characterized by a **unique design** and avant-garde aesthetic. Furthermore, all Sekkei Handrail systems meet the CTE's regulatory **safety** requirements and are **easy to assemble** thanks to the distribution of holes in the base and the mechanism that supports the trim.

[fra]
Mains courantes au design japonais

Bien que près de 10 600 km séparent la Galice du pays du Soleil Levant, chez Comenza, nous avons décidé de fusionner les cultures galicienne et japonaise dans le but de développer notre gamme de mains courantes la plus singulière. La main courante **Sekkei Handrail**, née de cette volonté de trouver un point de convergence avec le style japonais, a été conçue en exclusivité par le célèbre designer japonais **Ryosuke Fukusada**, en collaboration avec Comenza.

Sekkei signifie design en japonais, un concept à l'origine du **design unique** et de l'esthétique avant-gardiste de chacun des systèmes de main courante de cette gamme. En outre, tous les systèmes de main courante Sekkei Handrail répondent aux normes de **sécurité** du Code Technique de la Construction espagnol (CTE - Código Técnico de la Edificación) et sont **faciles à installer** grâce à la répartition des trous dans la base ainsi qu'au mécanisme qui maintient le cache.



El proceso de diseño

The design process

Processus de conception

[esp]
Para desarrollar Sekkei Handrail, Ryosuke busca transmitir las sensaciones que le evoca el equilibrio entre la suavidad y la dureza. Así, decide crear diferentes iteraciones de diseño mediante la técnica de modelado 3D para, más allá de centrarse únicamente en una idea concreta, producir diferentes modelos realistas.

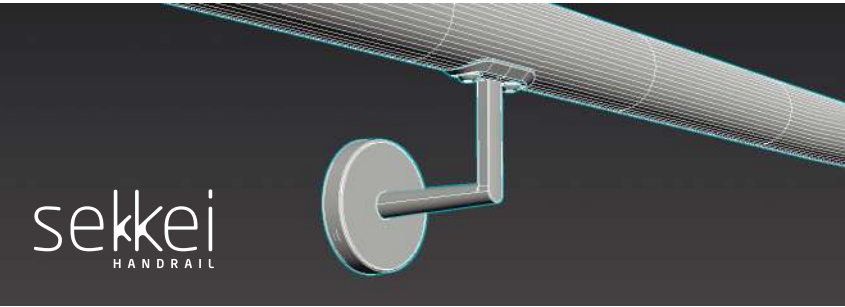
Los soportes de pasamanos Sekkei Handrail combinan suavidad con robustez y destacan por su estética minimalista y duradera. El resultado es un soporte de pasamanos moderno, original pero sencillo, que se adapta a cualquier entorno.

[eng]
In developing the Sekkei Handrail, Ryosuke focused on conveying the sensations evoked by the balance between softness and hardness. Thus, he decided to create different design iterations using 3D modeling, going beyond a specific idea to produce several realistic models.

Sekkei Handrail brackets combine softness with robustness and feature a durable, minimalist aesthetic. The result is a modern handrail bracket, original but simple, capable of adapting to any setting.

[fra]
Lors du développement de Sekkei Handrail, Ryosuke a cherché à transmettre les sensations que procure un équilibre entre douceur et dureté. Il a décidé ainsi de réaliser différentes variantes du design en utilisant la technique de modélisation 3D, dans le but de produire plusieurs modèles réalistes plutôt que de se concentrer sur une idée spécifique.

Les supports de main courante Sekkei Handrail allient douceur et robustesse et se distinguent par leur esthétique minimaliste et pérenne. Le résultat est un support de main courante moderne, original dans sa simplicité, qui trouve sa place dans n'importe quel environnement.



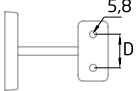
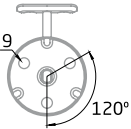
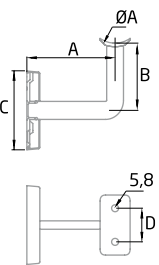
Ryo Fukusada

[esp]
Ryosuke Fukusada es un diseñador de producto japonés nacido en Osaka en el año 1979 y graduado por la Universidad de Arte y Diseño de Kanazawa. Ha trabajado para Sharp Corporation como diseñador de bienes electrónicos de consumo y para Patricia Urquiola en Studio Urquiola de Milán, donde ha participado en el desarrollo de proyectos de diseño en colaboración de los más prestigiosos diseñadores y fabricantes italianos. En el año 2012 crea Fukusada Studio en Kyoto y comienza a trabajar con una gran cantidad de clientes nacionales e internacionales. En la actualidad, Fukusada ofrece una amplia variedad de diseños para mobiliario, iluminación y artículos de hogar que han sido galardonados con prestigiosos premios internacionales como el Chicago Athenaeum Good Design Award o el APDC*IDA Design Awards, entre otros.

[eng]
Born in Osaka in 1979, Ryosuke Fukusada is a Japanese product designer and graduate of the Kanazawa College of Art. He has worked for Sharp Corporation as a consumer electronics designer and for Patricia Urquiola at Studio Urquiola in Milan, where he has participated in the development of design projects in collaboration with the most prestigious Italian designers and manufacturers. In 2012, he created Fukusada Studio in Kyoto and began working with numerous national and international clients. Fukusada currently offers a wide variety of designs for furniture, lighting, and household items, many of which have received prestigious international awards such as the Chicago Athenaeum Good Design Award or the APDC*IDA Design Awards, among others.

[fra]
Ryosuke Fukusada est un designer de produits japonais, né à Osaka en 1979 et diplômé de l'université des beaux-arts de Kanazawa. Il a travaillé pour Sharp Corporation en tant que concepteur de produits électroniques grand public. Dans le studio de Patricia Urquiola, à Milan, il a participé à des projets de design en collaboration avec les designers et fabricants italiens les plus prestigieux. En 2012, il a créé à Kyoto son propre studio, le Fukusada Studio, et a commencé à travailler pour un grand nombre de clients nationaux et internationaux. Aujourd'hui, Fukusada propose une grande variété de designs pour le mobilier, l'éclairage et les articles pour la maison, qui ont remporté des prix internationaux prestigieux tels que le Chicago Athenaeum Good Design Award ou les APDC*IDA Design Awards, pour ne mentionner que ceux-là.





ST-354 BA AISI-316

BA

SATIN

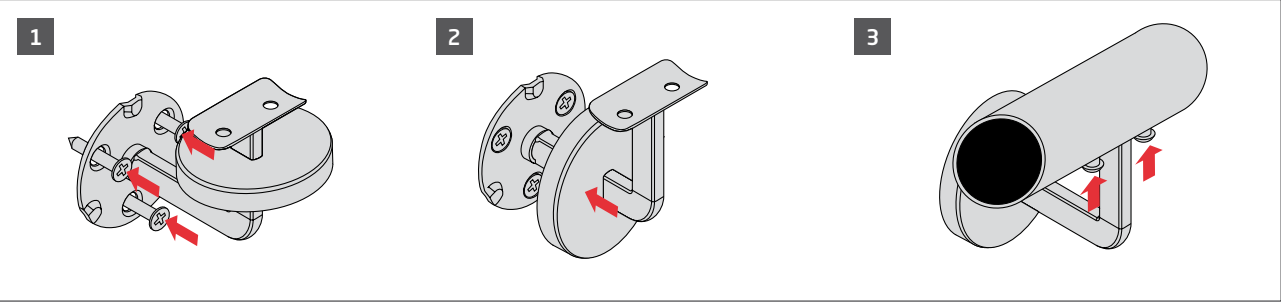
	ØA	A	B	C	D
2	43	73,5	56	65,6	28

BR-2012 (Brico Pag. 120)

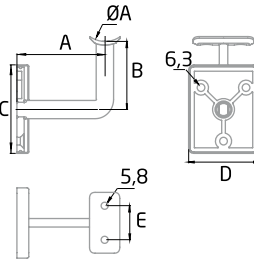
BR-2087 (Brico Pag. 120)



Instalación / Installation / Installation





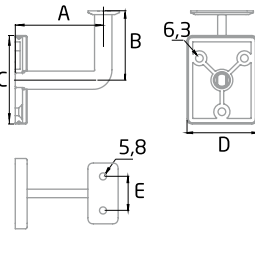


ST-356 BA AISI-316

	øA	A	B	C	D	E
2	43	72,5	56	72,8	57,8	28

BR-2087 (Brico Pag. 120)



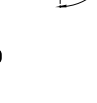
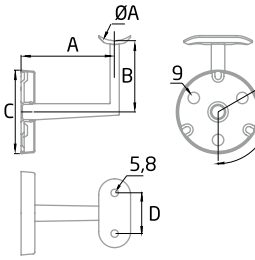


ST-356 FLAT BA AISI-316

	A	B	C	D	E
2	70	56	72,8	57,8	28

BR-2087 (Brico Pag. 120)





ST-358 BA AISI-316

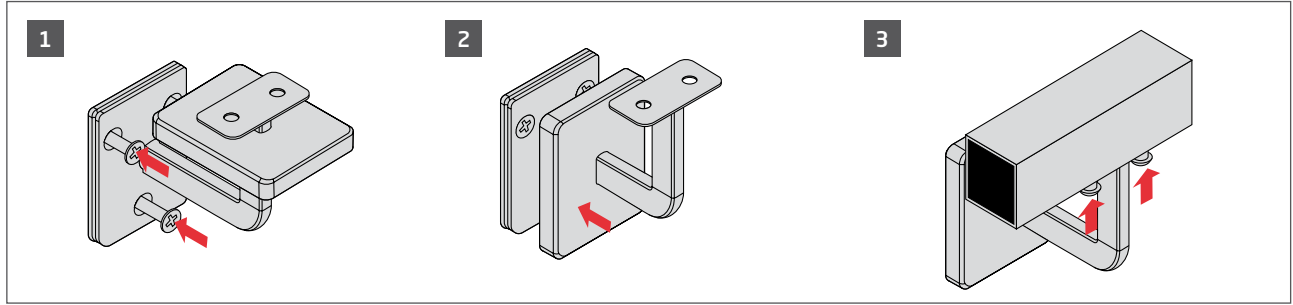
	øA	A	B	C	D
2	43	73,5	56	65,6	32

BR-2012 (Brico Pag. 120)
BR-2087 (Brico Pag. 120)



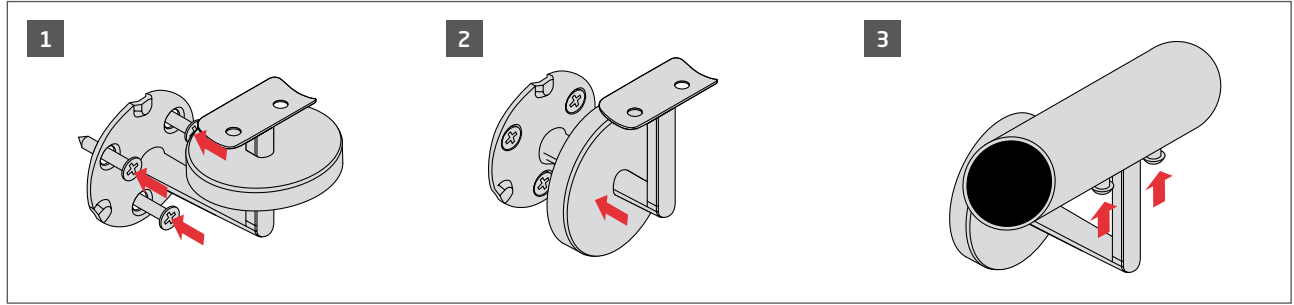
Instalación / Installation / Installation

ST-356 / ST-356 FLAT



Instalación / Installation / Installation

ST-358





DecoLed



Sistema / System / Système
Handrail DecoLed
ST-346

Handrail DecoLed

[esp]

Iluminación y diseño.

Presentamos nuestra gama de sistemas de pasamanos Decoled que permiten repartir de manera uniforme la iluminación de una zona de paso gracias a que incorporan una tira LED a través de su tubo ranurado.

Estos sistemas de pasamanos han sido diseñados para iluminar de manera continua y crear un ambiente cálido y cercano en el lugar en el que se instalen.

Los pasamanos Decoled son compatibles con tiras LED de distintas intensidades y colores de luz, todas ellas de bajo consumo. Adicionalmente, gracias a que los soportes se fabrican en acero inoxidable (AISI 316), son aptos para entornos interiores o exteriores.

Los pasamanos con iluminación LED de bajo consumo de la gama Decoled son la solución cuando se busca dar luz a un ambiente de forma homogénea y eficiente.

[eng]

Lighting technology and design.

We present our range of Decoled handrail systems that include lighting technology. This is enabled by a LED strip included in the handrail slotted tube.

These handrail systems have been designed to illuminate continuously and create a warm and close atmosphere.

Decoled handrails are compatible with LED strips of different intensities and colors of light, and low energy consumption. Additionally, thanks to the fact that the handrail brackets are made of stainless steel (AISI 316), they are suitable for indoor or outdoor environments.

The handrails of the Decoled range are the solution when you wish to illuminate an environment in a homogeneous and efficient way.

[fra]

Conception et technologie d'éclairage.

Nous présentons notre gamme de systèmes de mains courantes Decoled qui incluent la technologie d'éclairage, ceci est activé par une bande LED incluse dans le tube fendu de la main courante.

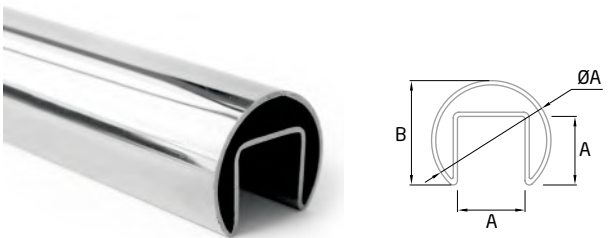
Ces systèmes de main courante ont été conçus pour éclairer en continu et créer une ambiance chaleureuse et intime.

Les mains courantes Décoled sont compatibles avec des bandes LED de différentes intensités et couleurs de lumière, et à faible consommation d'énergie. De plus, grâce au fait que les supports de main courante sont en acier inoxydable (AISI 316), ils conviennent aux environnements intérieurs ou extérieurs.

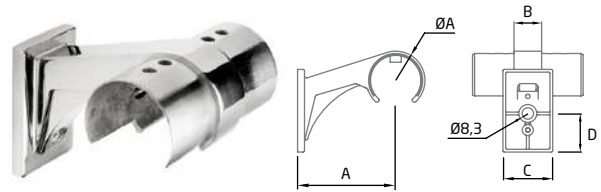
Les mains courantes de la gamme Decoled sont la solution lorsque vous souhaitez éclairer un environnement de manière homogène et efficace.



comenza
Railing Passion

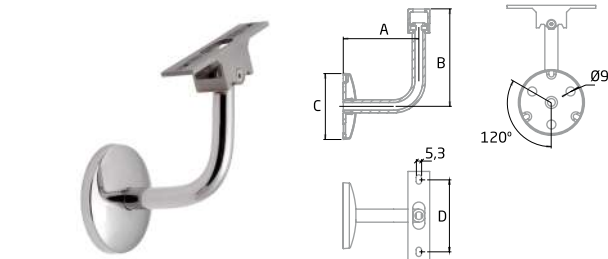


RP-1400 AISI-316						BA	SATIN
LG	øA	A	B	E*			
5000	42,4	24	37	1,5			



ST-345 AISI-316							BA	SATIN
2	øA	A	B	C	D			
2	42,4	71	20	36	28			

BR-2012 (Brico Pag. 120)



ST-346 AISI-316					BA	SATIN
2	A	B	C	D		
2	75	97	66	72		

BR-2012 (Brico Pag. 120)

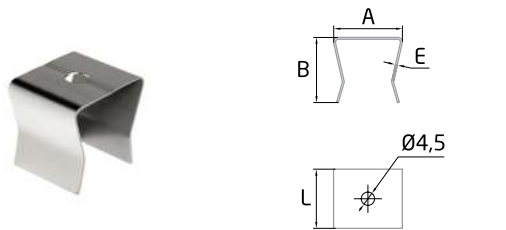


TF-512 AISI-316				BA	SATIN
2	øA	A	E*		
2	42,4	3	1,5		



AL-01					SATIN
LG	A	B	C		
2000	12	16	24		

QLTY: Aluminio / Aluminium / Aluminium

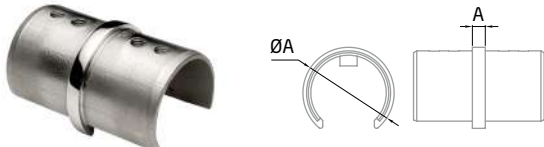


AL-00 AISI-304				
10	A	B	L	E*
10	23,2	22	20	0,6

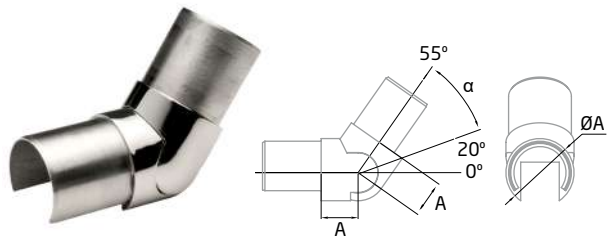
DIN-912 M-4 L-6 (Brico Pag. 114)



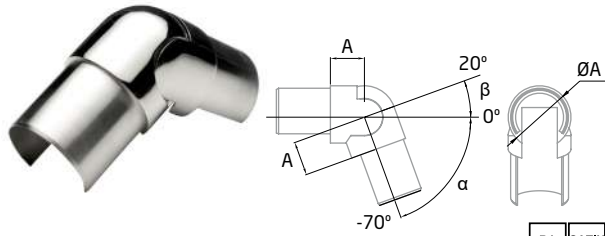
CT-211 AISI-316				BA	SATIN
2	øA	A	E*		
2	42,4	50	1,5		



CT-212 AISI-316				BA	SATIN
2	øA	A	E*		
2	42,4	4	1,5		



SA-416 AISI-316					BA	SATIN
2	øA	A	E*	α		
2	42,4	23	1,5	20-55°		

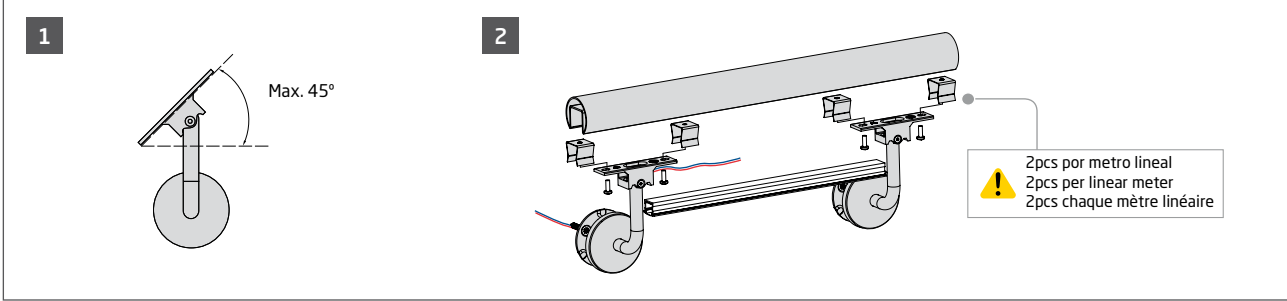


SA-417 AISI-316						BA	SATIN
2	øA	A	E*	α	β		
2	42,4	23	1,5	0-70°	0-20°		



Instalación / Installation / Installation

ST-346





LED STRIP 24V - 3000K

	m/box	V	W/m	Lm/m	Protection
1	5	24	12	1150	IP-65

Diodo emisor de luz. Color: Luz amarilla
Light-emitting diode. Colour: Yellow light
Diode électroluminescente. Couleur: Jaune chaud



LED STRIP 24V - 4000K

	m/box	V	W/m	Lm/m	Protection
1	5	24	12	1150	IP-65

Diodo emisor de luz. Color: Luz blanca
Light-emitting diode. Colour: White light
Diode électroluminescente. Couleur: Blanc froid



LED STRIP 230V - 3000K

	m/box	V	W/m	Lm/m	Protection
1	30	230	18	1850	IP-65

Diodo emisor de luz. Color: Luz amarilla
Light-emitting diode. Colour: Yellow light
Diode électroluminescente. Couleur: Jaune chaud



LED STRIP 230V - 4000K

	m/box	V	W/m	Lm/m	Protection
1	30	230	18	1875	IP-65

Diodo emisor de luz. Color: Luz blanca
Light-emitting diode. Colour: White light
Diode électroluminescente. Couleur: Blanc froid



LED COB STRIP 230V - 3000K

	m/box	V	W/m	Lm/m	Protection
1	30	230	15	1080	IP-65

Diodo emisor de luz. Color: Luz amarilla
Light-emitting diode. Colour: Yellow light
Diode électroluminescente. Couleur: Jaune chaud



LED COB STRIP 230V - 4000K

	m/box	V	W/m	Lm/m	Protection
1	30	230	15	1230	IP-65

Diodo emisor de luz. Color: Luz blanca
Light-emitting diode. Colour: White light
Diode électroluminescente. Couleur: Blanc froid



START LED STRIP 24V CONNECTOR

	V	Protection
1	24	IP-65

Conector inicial LED 24V
Initial connector LED 24V
Connecteur initial ruban LED 24V



MIDDLE LED STRIP 24V CONNECTOR

	V	Protection
1	24	IP-65

Conector intermedio LED 24V
Intermediate connector LED 24V
Connecteur intermédiaire ruban LED 24V



START LED STRIP 230V CONNECTOR

	V	Protection
1	230	IP-65

Conector inicial LED 230V
Initial connector LED 230V
Connecteur initial ruban LED 230V



MIDDLE LED STRIP 230V CONNECTOR

	V	Protection
1	230	IP-65

Conector intermedio LED 230V
Intermediate connector LED 230V
Connecteur intermédiaire ruban LED 230V



START LED COB STRIP 230V CONNECTOR

	V	Protection
1	230	IP-65

Conector inicial LED COB 230V
LED COB Initial connector 230V
Connecteur initial ruban LED COB 230V



MIDDLE LED COB STRIP 230V CONNECTOR

	V	Protection
1	230	IP-65

Conector intermedio LED COB 230V
Intermediate connector LED COB 230V
Connecteur intermédiaire ruban LED COB 230V



LED POWER DRIVER

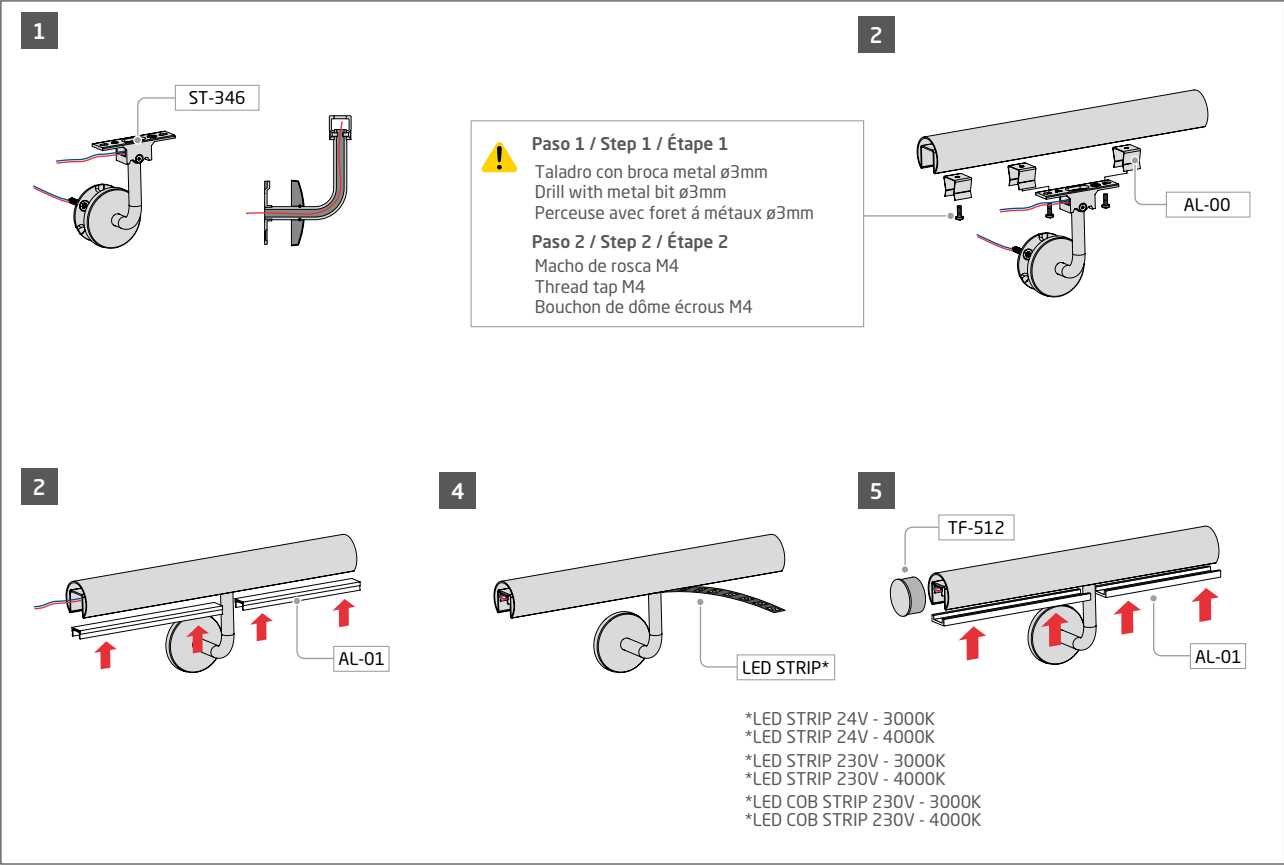
	V (in)	V (out)	W	Protection
1	230	24	200	IP-67

Fuente alimentación para tiras LED
Power supply for LED strips
Alimentation pour ruban LED

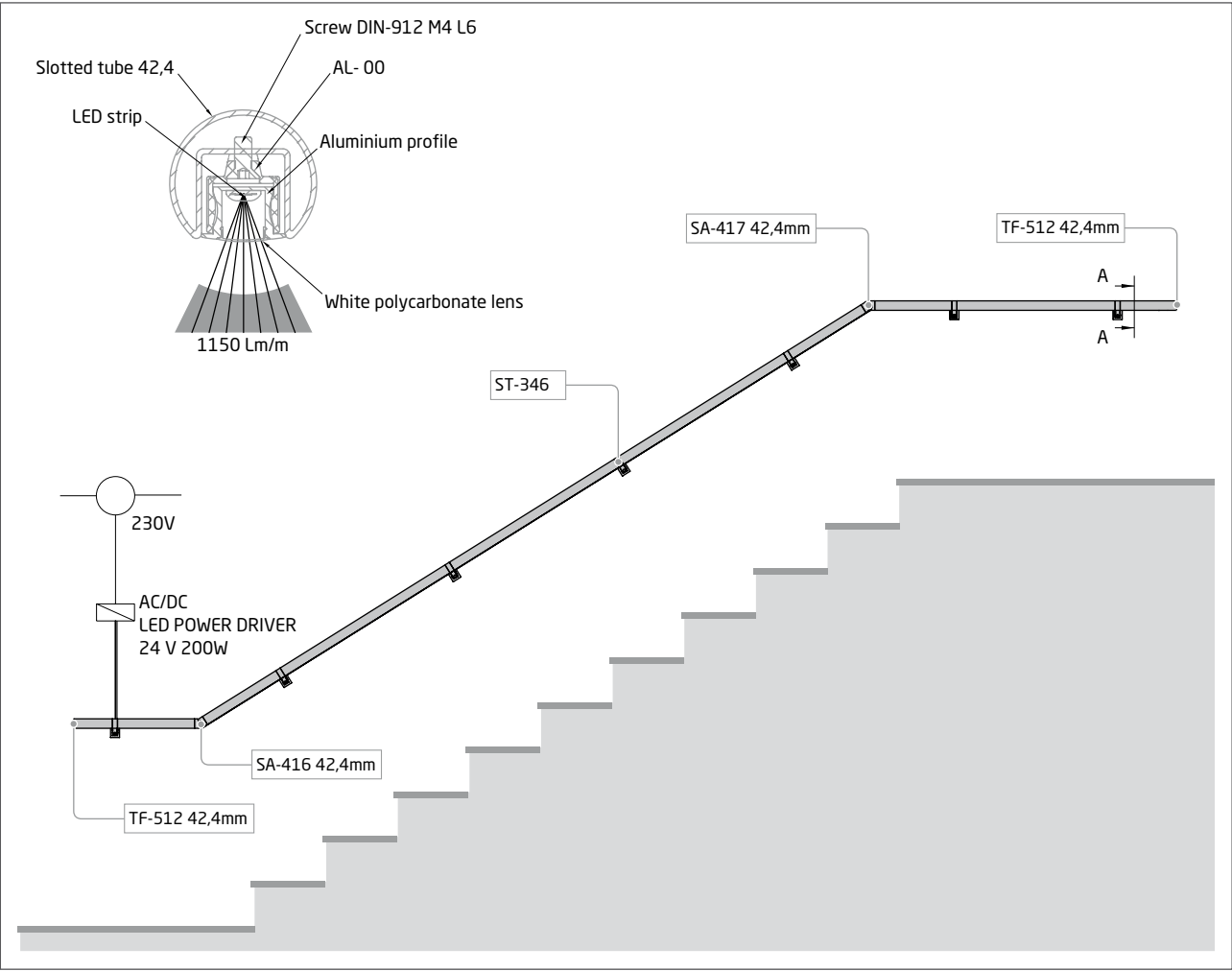
Esquema de conexionado
Wiring diagram
85 Schéma de câblage

Instalación / Installation / Installation

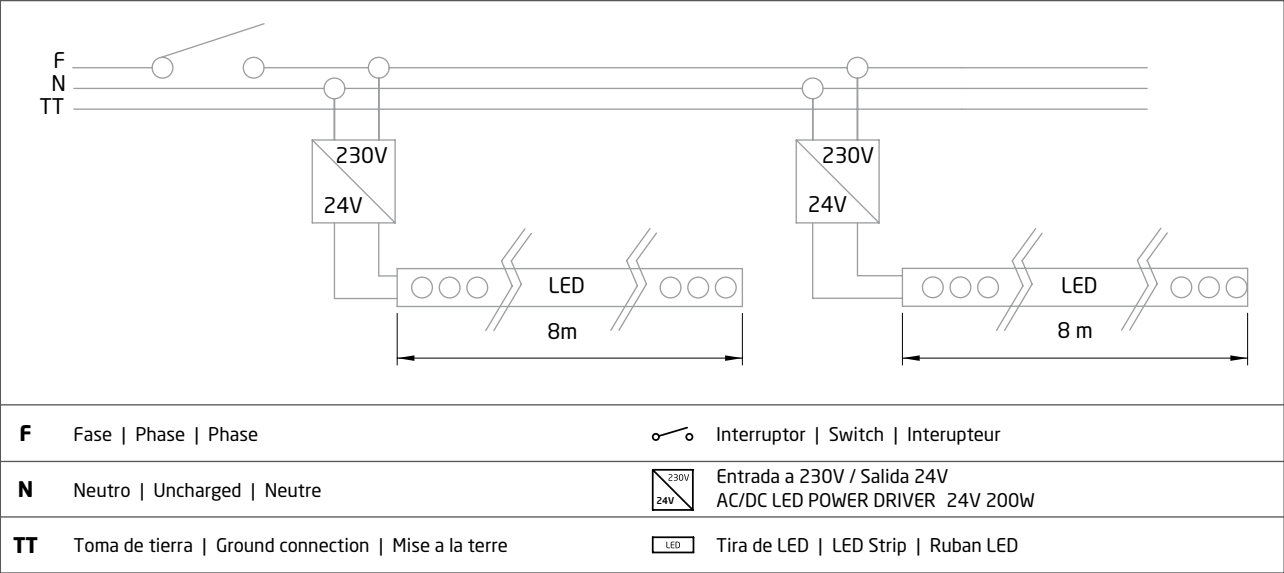
DecoLed



Ver vídeo de instalación en / Watch installation video at / Voir video d'installation sur www.comenza.com



Esquema de conexionado / Wiring diagram / Schéma de câblage



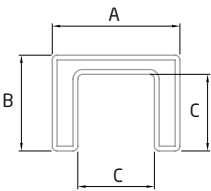
*NOTA: La longitud y cantidad máxima de tiras LED a instalar para cada transformador, debe ser calculada por un técnico electricista cualificado en función de las condiciones particulares de cada instalación (esquema de conexión, longitud y sección de cables utilizado, etc).

* NOTE: The length and maximum number of LED strips to be installed for each transformer must be calculated by a qualified electrician based on the particular conditions of each installation (connection diagram, length and section of cables used, etc.)

REMARQUE : La longueur et le nombre maximum de bandes LED à installer pour chaque transformateur doivent être calculés par un électricien qualifié en fonction des conditions particulières de chaque installation (schéma de connexion, longueur et section des câbles utilisés, etc.).

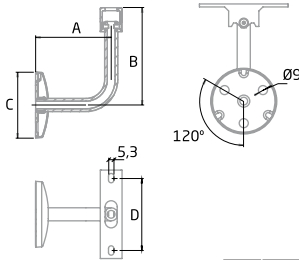


comenza
Railing Passion



RP-1410 AISI-316 BA SATIN

LG	øA	A	B	E*
5000	40	30	24	1,5

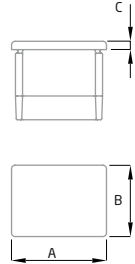


ST-346 AISI-316 BA SATIN

2	A	B	C	D
2	75	97	66	72

BR-2012 (Brico Pag. 120)

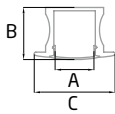




TF-514 AISI-316 BA SATIN

2	A	B	C	E*
2	40	30	4	1,5

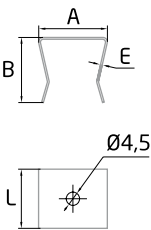




AL-01 SATIN

LG	A	B	C
2000	12	16	24

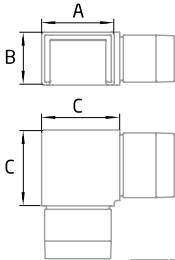
QLTY: Aluminio / Aluminium / Aluminium



AL-00 AISI-304

10	A	B	L	E*
10	23,2	22	20	0,6

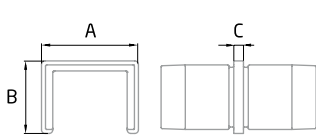
DIN-912 M-4 L-6 (Brico Pag. 114)



CT-240 AISI-316 BA SATIN

2	A	B	C	E*
2	40	30	43	1,5



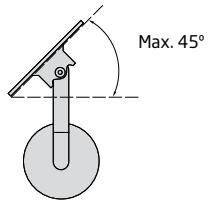


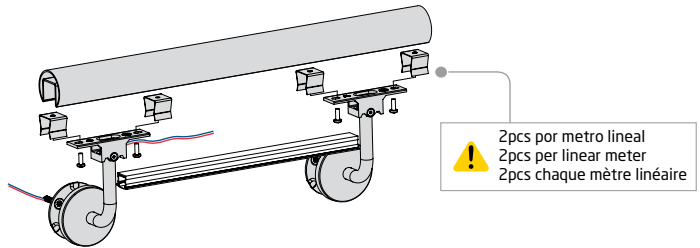
CT-241 AISI-316 BA SATIN

2	A	B	C	E*
2	40	30	4	1,5



Instalación / Installation / Installation

1

2

ST-346



LED STRIP 24V - 3000K

	m/box	V	W/m	Lm/m	Protection
1	5	24	12	1150	IP-65

Diodo emisor de luz. Color: Luz amarilla
Light-emitting diode. Colour: Yellow light
Diode électroluminescente. Couleur: Jaune chaud



LED STRIP 24V - 4000K

	m/box	V	W/m	Lm/m	Protection
1	5	24	12	1150	IP-65

Diodo emisor de luz. Color: Luz blanca
Light-emitting diode. Colour: White light
Diode électroluminescente. Couleur: Blanc froid



LED STRIP 230V - 3000K

	m/box	V	W/m	Lm/m	Protection
1	30	230	18	1850	IP-65

Diodo emisor de luz. Color: Luz amarilla
Light-emitting diode: Yellow light
Diode électroluminescente. Couleur: Jaune chaud



LED STRIP 230V - 4000K

	m/box	V	W/m	Lm/m	Protection
1	30	230	18	1875	IP-65

Diodo emisor de luz. Color: Luz blanca
Light-emitting diode. Colour: White light
Diode électroluminescente. Couleur: Blanc froid



LED COB STRIP 230V - 3000K

	m/box	V	W/m	Lm/m	Protection
1	30	230	15	1080	IP-65

Diodo emisor de luz. Color: Luz amarilla
Light-emitting diode. Colour: Yellow light
Diode électroluminescente. Couleur: Jaune chaud



LED COB STRIP 230V - 4000K

	m/box	V	W/m	Lm/m	Protection
1	30	230	15	1230	IP-65

Diodo emisor de luz. Color: Luz blanca
Light-emitting diode. Colour: White light
Diode électroluminescente. Couleur: Blanc froid



START LED STRIP 24V CONNECTOR

	V	Protection
1	24	IP-65

Conector inicial LED 24V
Initial connector LED 24V
Connecteur initial ruban LED 24V



MIDDLE LED STRIP 24V CONNECTOR

	V	Protection
1	24	IP-65

Conector intermedio LED 24V
Intermediate connector LED 24V
Connecteur intermédiaire ruban LED 24V



START LED STRIP 230V CONNECTOR

	V	Protection
1	230	IP-65

Conector inicial LED 230V
Initial connector LED 230V
Connecteur initial ruban LED 230V



MIDDLE LED STRIP 230V CONNECTOR

	V	Protection
1	230	IP-65

Conector intermedio LED 230V
Intermediate connector LED 230V
Connecteur intermédiaire ruban LED 230V



START LED COB STRIP 230V CONNECTOR

	V	Protection
1	230	IP-65

Conector inicial LED COB 230V
LED COB Initial connector 230V
Connecteur initial ruban LED COB 230V



MIDDLE LED COB STRIP 230V CONNECTOR

	V	Protection
1	230	IP-65

Conector intermedio LED COB 230V
Intermediate connector LED COB 230V
Connecteur intermédiaire ruban LED COB 230V



LED POWER DRIVER

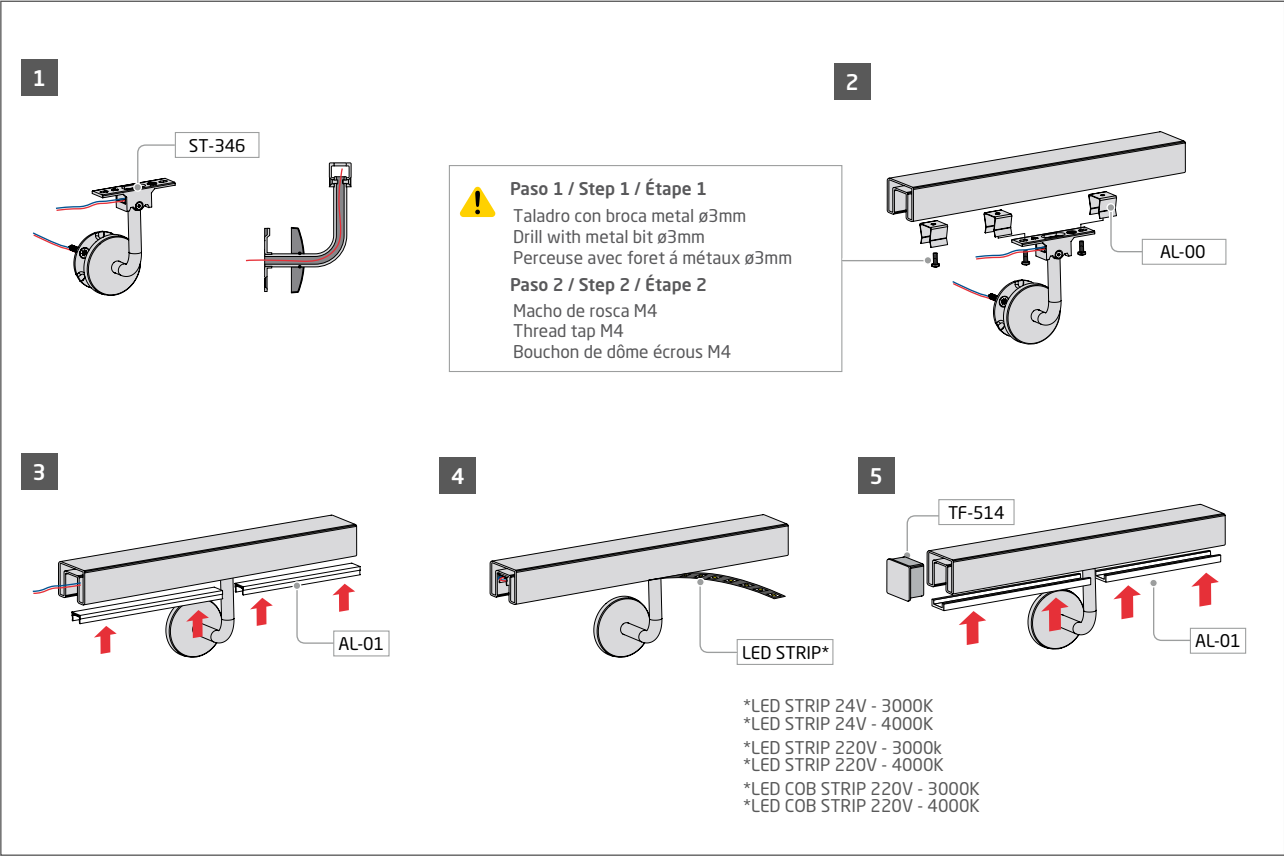
	V (in)	V (out)	W	Protection
1	230	24	200	IP-67

Fuente alimentación para tiras LED
Power supply for LED strips
Alimentation pour ruban LED

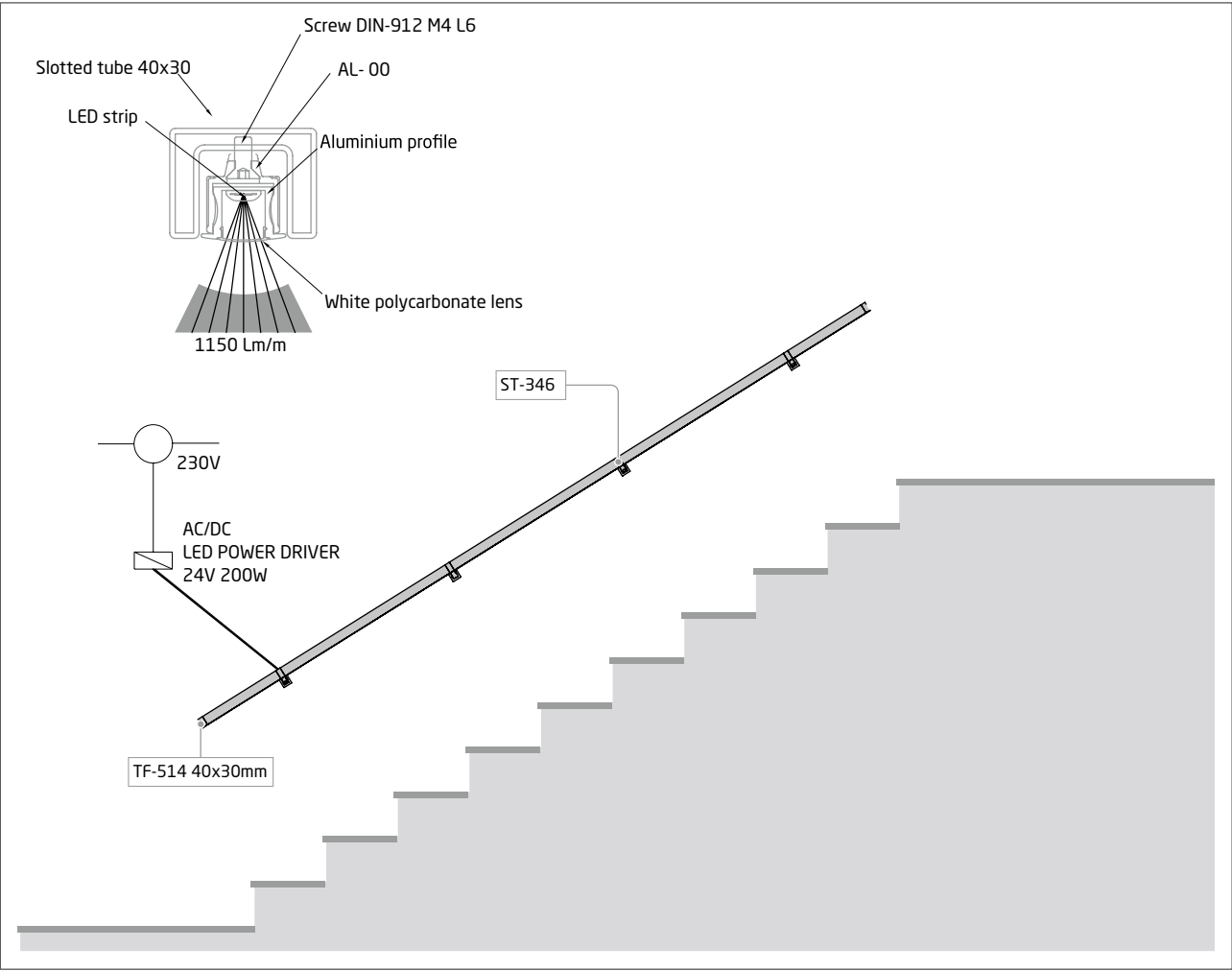
Esquema de conexionado
Wiring diagram
91 Schéma de câblage

Instalación / Installation / Installation

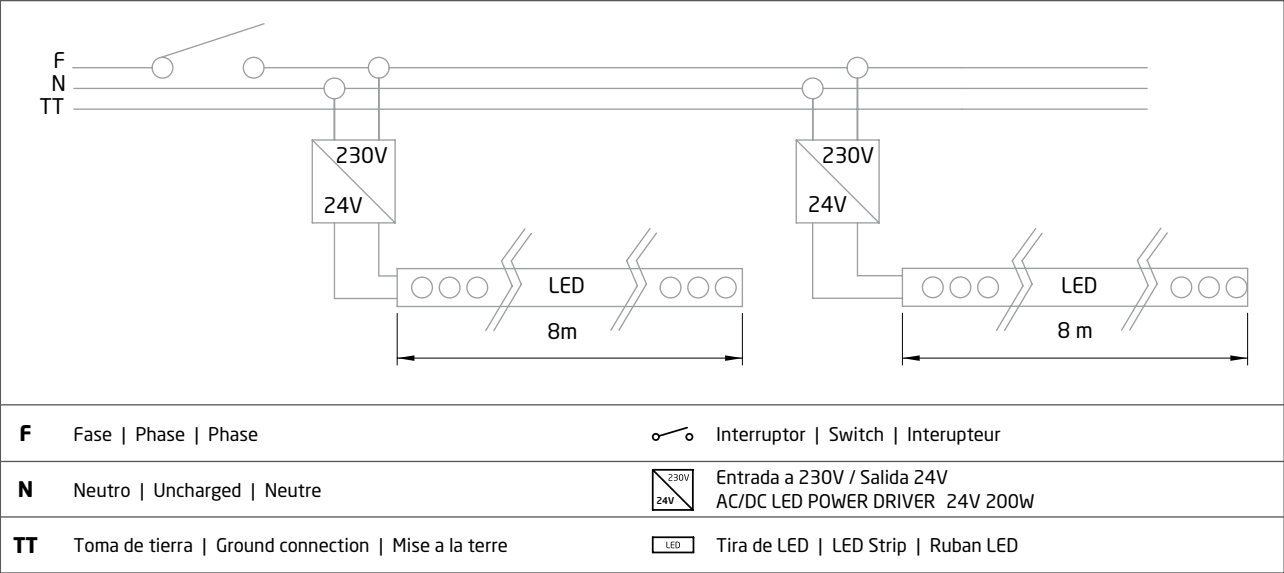
DecoLed



Ver vídeo de instalación en / Watch installation video at / Voir video d'installation sur www.comenza.com



Esquema de conexionado / Wiring diagram / Schéma de câblage



*NOTA: La longitud y cantidad máxima de tiras LED a instalar para cada transformador, debe ser calculada por un técnico electricista cualificado en función de las condiciones particulares de cada instalación (esquema de conexión, longitud y sección de cables utilizado, etc).

* NOTE: The length and maximum number of LED strips to be installed for each transformer must be calculated by a qualified electrician based on the particular conditions of each installation (connection diagram, length and section of cables used, etc.)

REMARQUE : La longueur et le nombre maximum de bandes LED à installer pour chaque transformateur doivent être calculés par un électricien qualifié en fonction des conditions particulières de chaque installation (schéma de connexion, longueur et section des câbles utilisés, etc.).



Flex-Height



Sistema / System / Système
Handrail Flex-Height
SA-490

Handrail Flex-Height

[esp]

Adaptabilidad a desniveles.

La principal característica de nuestra gama de sistemas de pasamanos Flex-Height para murete es su mecanismo de regulación de altura, gracias al cual se pueden adaptar a una superficie irregular salvando posibles desniveles.

Los sistemas Flex-Height permiten, además, múltiples combinaciones de montaje con otros soportes de pasamanos para diferentes tubos (redondos, cuadrados, etc.), tanto en zonas rectas como en esquina y posibilitan de esta manera su instalación en tramos horizontales o inclinados, así como su uso como reposapiés o protectores en zonas de carros de compra autoservicio para supermercados, aeropuertos, etc.

La gama Flex-Height es versatilidad, adaptabilidad y diseño: su estilo moderno y minimalista aportará una estética contemporánea y cuidada a cualquier estancia. Además, al ser fabricados en acero inoxidable (AISI 316), ofrecen una gran resistencia y estabilidad tanto en exteriores como en interiores.

Los sistemas de pasamanos de la gama Flex-Height, son una solución sencilla para salvar irregularidades de nivel sin descuidar la apariencia.

[eng]

Adaptability to irregular surfaces.

The main characteristic of the Flex-Height range, is their height adjustment mechanism, thanks to which they can be adapted to an irregular surface, avoiding possible unevenness.

The Flex-Height systems for low walls also allow multiple mounting combinations with different tubes (round, square, etc.), both in straight areas and in corners, thus enabling their installation in horizontal or inclined sections, as well as its use as footrests or protectors in self-service shopping cart areas for supermarkets or airports.

The Flex-Height range is versatility, adaptability and design: its modern and minimalist style will bring a contemporary and careful aesthetic to any room. In addition, being made of stainless steel (AISI 316), they offer great resistance and stability both outdoors and indoors.

The handrail systems of the Flex-Height range are a simple solution to solve level irregularities without neglecting appearance.

[fra]

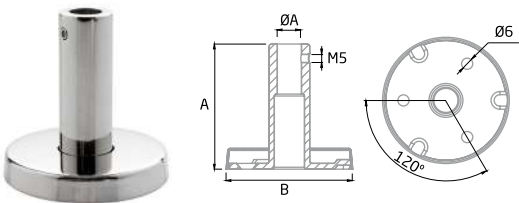
Adaptabilité aux surfaces irrégulières.

La principale caractéristique de la gamme Flex-Height est leur mécanisme de réglage en hauteur, grâce auquel ils peuvent être adaptés à une surface irrégulière.

Les systèmes Flex-Height pour murets permettent également de multiples combinaisons de montage avec différents tubes (ronds, carrés, etc.), aussi bien dans sections horizontales ou inclinées, ainsi que son utilisation comme repose-pieds ou des protecteurs dans les zones de chariot libre-service pour les supermarchés ou les aéroports.

La gamme Flex-Height est polyvalence, adaptabilité et design : son style moderne et minimaliste apportera une esthétique contemporaine et soignée. De plus, étant en acier inoxydable (AISI 316), ils offrent une grande résistance et stabilité aussi bien à l'extérieur qu'à l'intérieur.

Les systèmes de mains courantes de la gamme Flex-Height sont une solution simple pour résoudre les irrégularités de niveau sans négliger l'apparence.



SA-490 BA AISI-316

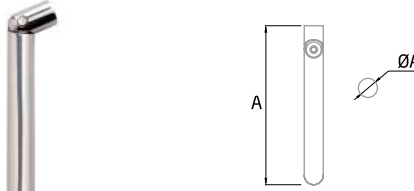
BA

SATIN

	ØA	A	B
2	12,5	65	66

BR-2087 (Brico Pag. 120)





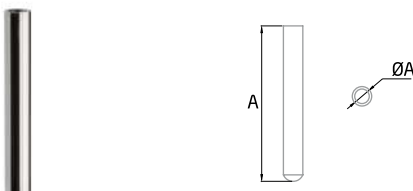
BG-00 AISI-316

BA

SATIN

	ØA	A
2	12	100





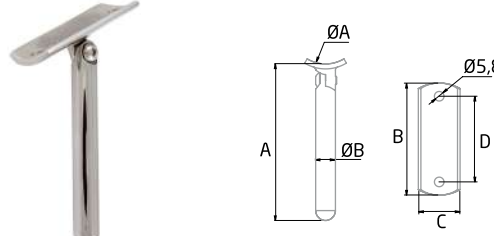
BF-00 AISI-316

BA

SATIN

	ØA	A
2	12	96





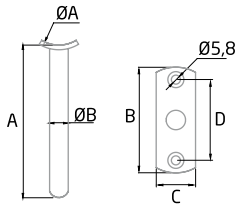
BG-R AISI-316

BA

SATIN

	ØA	ØB	A	B	C	D
2	43	12	95	68	25	52
2	50,8	12	95	68	25	52





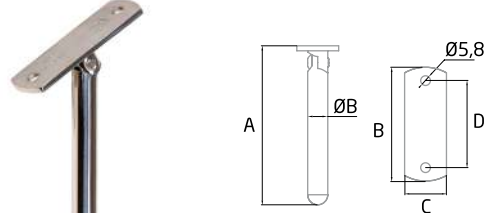
BF-R AISI-316

BA

SATIN

	ØA	ØB	A	B	C	D
2	43	12	98	68	25	52
2	50,8	12	98	68	25	52





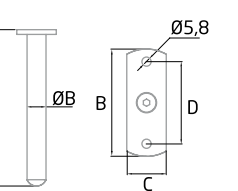
BG-FLAT AISI-316

BA

SATIN

	ØB	A	B	C	D
2	12	95	68	25	52





BF-FLAT AISI-316

BA

SATIN

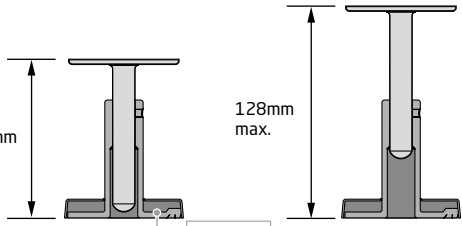
	ØB	A	B	C	D
2	12	99	68	25	52



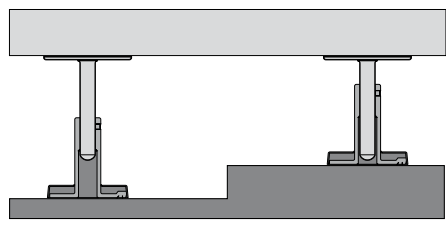
Instalación / Installation / Installation

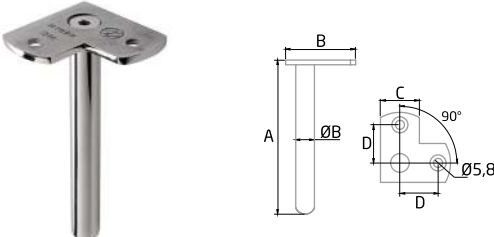
SA-490

1



2





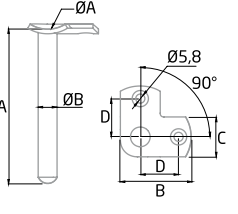
BF-C FLAT 90 AISI-316

BA

SATIN

	ØB	A	B	C	D
2	12	99	45	25	24,5





BF-C R 90 AISI-316

BA

SATIN

	ØA	ØB	A	B	C	D
2	43	12	98	45	25	24
2	50,8	12	98	45	25,5	24





Handrail Stand-Rail

[esp]

Una apuesta clásica y resistente.

Nuestra gama de sistemas de pasamanos para pared Stand-Rail está compuesta por una variedad de soportes en forma de "L" que, combinados con las diferentes opciones de tubos cuadrados, rectangulares o redondos, aportan elegancia y sencillez a cada uno de los lugares en los que son instalados.

Los sistemas de pasamanos de la gama Stand-Rail demuestran que un diseño simple y clásico no está reñido con un acabado elegante y cuidado. Además, todos nuestros soportes están fabricados en acero inoxidable (AISI 316), lo que permite su colocación en exteriores e interiores ofreciendo en cualquiera de los casos una alta resistencia y seguridad.

Stand-Rail es una gama de sistemas de pasamanos con diseños clásicos, robustos y sencillos.

[eng]

A classic and resistant design.

Our range of Stand-Rail wall handrail systems is made up of a variety of "L"-shaped brackets that, combined with the different options of square, rectangular or round tubes, bring elegance and simplicity to every space where they are installed.

The handrail systems of the Stand Rail range demonstrate that a simple and classic design is not at odds with an elegant and careful finish. In addition, all our supports are made of stainless steel (AISI 316), which allows them to be placed outdoors and indoors, offering high resistance and safety in any case.

Stand Rail is a range of handrail systems with classic, robust and simple design.

[fra]

Un design classique et résistant.

Notre gamme de systèmes de mains courantes murales Stand Rail est composée d'une variété de supports en forme de "L" qui, combinés aux différentes options de tubes carrés, rectangulaires ou ronds, apportent élégance et simplicité à chaque espace où ils sont installés.

Les systèmes de mains courantes de la gamme Stand Rail démontrent qu'un design simple et classique n'est pas en contradiction avec une finition élégante et soignée. De plus, tous nos supports sont en acier inoxydable (AISI 316), ce qui leur permet d'être placés à l'extérieur et à l'intérieur, offrant une haute résistance et sécurité dans tous les cas.

Stand Rail est une gamme de systèmes de mains courantes au design classique, robuste et simple.



Sistema / System / Système
Handrail Stand-Rail
ST-303



Sistema / System / Système
Handrail Stand-Rail
ST-340



Sistema / System / Système
Handrail Stand-Rail
ST-353

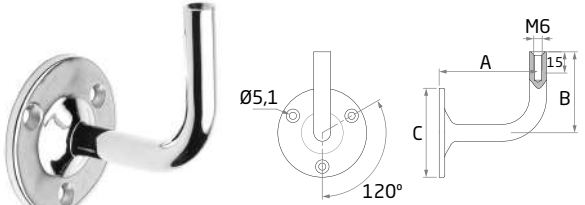


Sistema / System / Système
Handrail Stand-Rail
ST-335



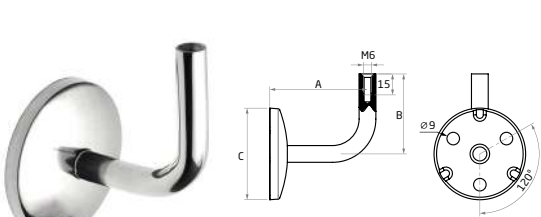
ST-303 AISI-316						BA	SATIN
	ØA	A	B	C	D		
2	43	70	60	63	32		
2	50,8	70	60	63	32		

BR-2011 (Brico Pag. 115)
BR-2087 (Brico Pag. 120)



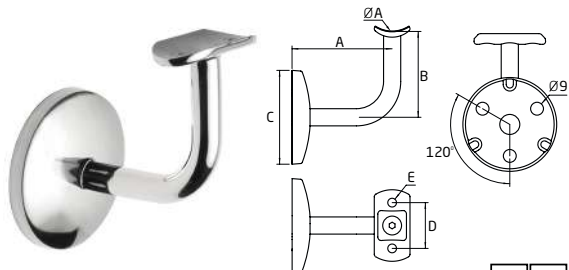
ST-303 W AISI-316				BA	SATIN
	A	B	C		
2	70	57,3	63		

BR-2087 (Brico Pag. 120)



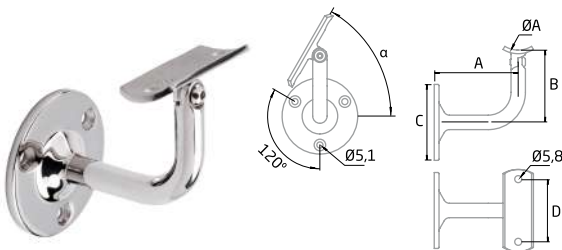
ST-353 W AISI-316				BA	SATIN
	A	B	C		
2	69	57,3	66		

BR-2012 (Brico Pag. 120)
BR-2087 (Brico Pag. 120)



ST-353 AISI-316							BA	SATIN
	ØA	A	B	C	D	E		
2	43	70	60	66	32	6,1		
2	50,8	70	60	66	32	6,1		

BR-2012 (Brico Pag. 120)
BR-2087 (Brico Pag. 120)



ST-303 A AISI-316							BA	SATIN
	ØA	A	B	C	D	α		
2	43	70	60	63	52	-60°/+60°		
2	50,8	70	60	63	52	-60°/+60°		

BR-2087 (Brico Pag. 120)



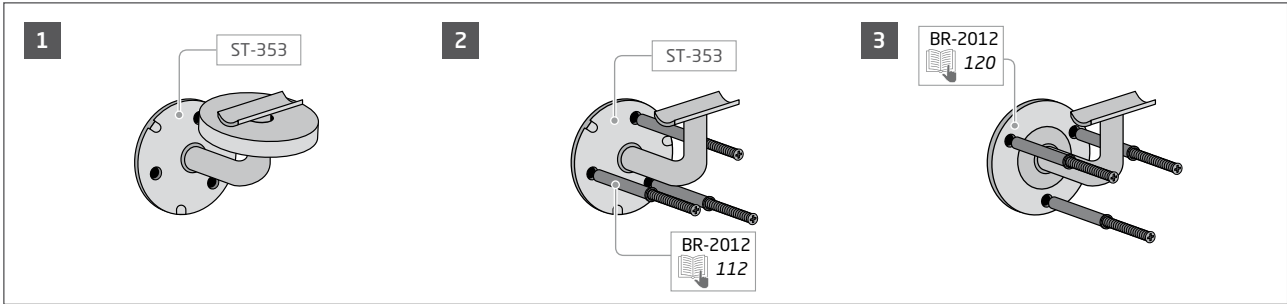
ST-303 FLAT AISI-316					BA	SATIN
	A	B	C	D		
2	70	59,5	63	32		

BR-2087 (Brico Pag. 253)



Instalación / Installation / Installation

ST-353



El soporte está diseñado para posibilitar su fijación en un solo tiempo usando tacos premontados. Una vez finalizado el montaje y asegurado el soporte sobre la superficie de apoyo, se fija el embellecedor ejerciendo una pequeña presión sobre la base, quedando la goma oculta en su interior. [1]

Pasos de instalación con : ST-353

1. Taladrar la pared
2. Colocación de pieza
3. Fijar el soporte a la pared con el taco premontado [2]

Pasos de instalación en soportes convencionales:

1. Taladrado de la pared
2. Colocación del tirafondo
3. Colocación de la pieza
4. Fijar el soporte [3]

This product has been designed to enable its fixing at once using nylon hammer drive anchor. Once the assembly is finished and the support is fastened on the support surface, the cover is placed pressing slightly on the base, and the rubber rests hidden inside. [1]

Installation steps with : ST-353

1. Drill the wall.
2. Place the ST-353.
3. Fix the support to the wall with the preassembled anchor. [2]

Installation steps with traditional supports:

1. Drill the wall.
2. Place the lag bolt.
3. Fix the piece.
4. Fix the support. [3]

Ce support a été conçu pour faire possible la fixation d'un coup d'ancrages pré-assemblés du type de cheville en plastique. Quand le montage est fini et le support bien fixé à la surface d'appui, on fixe l'enjoliveur en exerçant une petite pression sur la base, en restant la caoutchouc torique cache dans l'intérieur. [1]

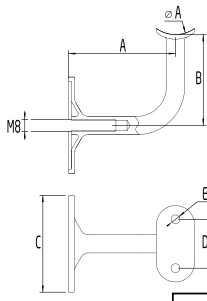
Installation avec le support : ST-353

1. On perce le mur.
2. On place la ST-353
3. On fixe le support au mur avec l'ancrage pré-assemblé. [2]

Installation avec un support traditionnel:

1. On perce le mur.
2. On place la vis tire-fond.
3. On place la pièce.
4. On fixe le support. [3]





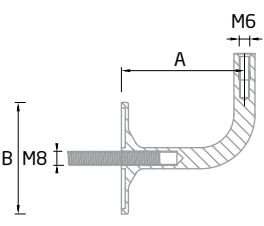
ST-340 AISI-316

BA

SATIN

	ØA	A	B	C	D	E
2	43	70	59,5	63	32	5,8
2	50,8	70	59,5	63	32	4,5





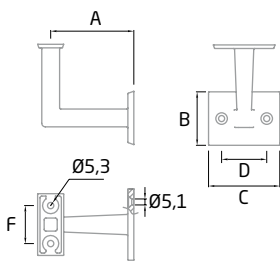
ST-340 W AISI-316

BA

SATIN

	A	B
2	70	63





ST-335 FLAT AISI-316

BA

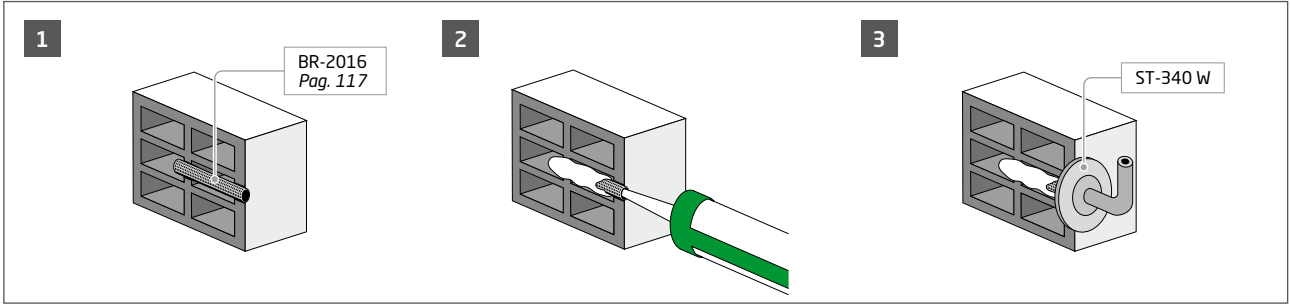
SATIN

	A	B	C	D	F
2	70	45	60	38	32

BR-2087 (Brico Pag. 120)



Instalación / Installation / Installation





Sistema / System / Système
Handrail Oval
ST-304



Sistema / System / Système
Handrail Oval
ST-306

Handrail Oval

[esp]

La armonía del círculo.

En la gama de sistemas de pasamanos para murete Oval hemos querido transmitir la armonía de las líneas curvas desarrollando soportes cuyo diseño circular sea el protagonista.

Los soportes de la gama Oval son combinables con tubos de diferentes diámetros y cuentan con piezas de remate finales que dotan al pasamanos de una estética elegante y cuidada. Todos ellos son fabricados en acero inoxidable (AISI 316) lo que permite su instalación en interiores y exteriores.

Además, gracias a su diseño que envuelve el tubo de pasamanos, ofrecen una gran resistencia y versatilidad, convirtiéndose en complementos indispensables a la hora de dar gran estabilidad y seguridad como agarre sobre muretes, reposapiés o protectores en zonas de carros de compra autoservicio para supermercados, aeropuertos, etc.

Si buscas un sistema versátil y resistente, la gama Oval te ofrece la solución.

[eng]

Harmony of the circle.

Oval i sour range of handrail systems for low walls, we wanted to transmit the harmony of curved lines by developing handrail systems where the circular design is the main feature.

The handrail brackets of Oval can be combined with tubes of different diameters and have final finishing pieces that give the handrail an elegant and careful aesthetic.

All of them are made of stainless steel (AISI 316) which allows them to be installed indoors and outdoors.

In addition, thanks to their design that surrounds the handrail tube, they offer great resistance and versatility, becoming an essential accessory when it comes to providing great stability and safety as a grip on walls, footrests or protectors in self-service shopping cart areas for supermarkets, or airports.

If you are looking for a versatile and resistant system, the Oval range offers you the solution.

[fra]

Harmonie du cercle.

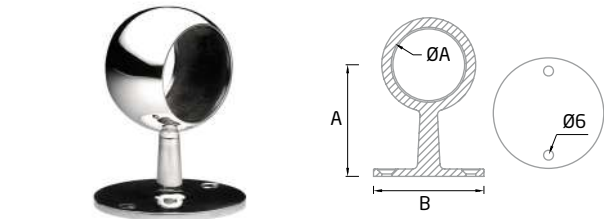
Oval est notre gamme de systèmes de garde-corps pour murets, nous avons voulu transmettre l'harmonie des lignes courbes en développant des systèmes de garde-corps où le design circulaire est la caractéristique principale.

Les supports de main courante d'Oval peuvent être combinés avec des tubes de différents diamètres et avoir des pièces de finition finales qui donnent à la main courante une esthétique élégante et soignée.

Tous sont fabriqués en acier inoxydable (AISI 316) ce qui leur permet d'être installés à l'intérieur comme à l'extérieur.

De plus, grâce à leur conception qui entoure le tube de la main courante, ils offrent une grande résistance et polyvalence, devenant un accessoire indispensable lorsqu'il s'agit d'offrir une grande stabilité et sécurité comme prise sur les murs, repose-pieds ou protecteurs dans les zones de chariot libre-service pour supermarchés ou aéroports.

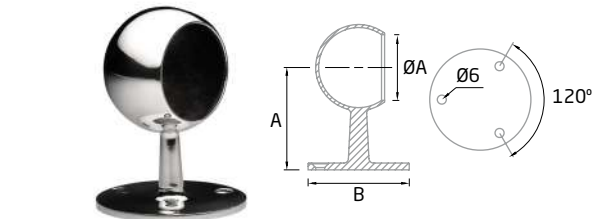
Si vous recherchez un système polyvalent et résistant, la gamme Oval vous offre la solution.



ST-304 AISI-316					BA	SATIN
	ØA	A	B			
2	43	68	67			

BR-2087 (Brico Pag. 120)

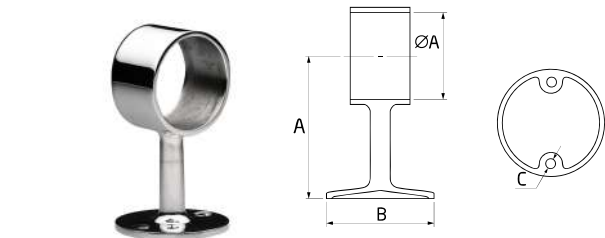




ST-304 END AISI-316					BA	SATIN
	ØA	A	B			
2	43	68	67			

BR-2087 (Brico Pag. 120)

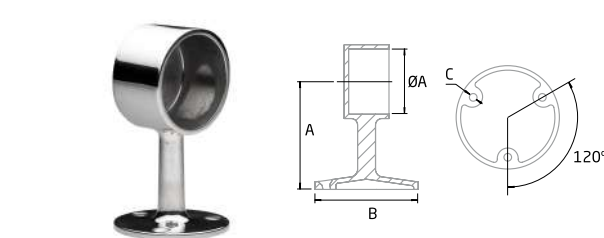




ST-306 AISI-316					BA	SATIN
	ØA	A	B	B		
2	43	72	69	5,1		
2	50,8	84	63	5,8		

BR-2087 (Brico Pag. 120)

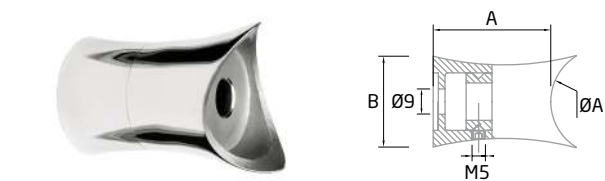




ST-306 END AISI-316					BA	SATIN
	ØA	A	B	C		
2	43	72	69	5,1		
2	50,8	84	63	5,8		

BR-2087 (Brico Pag. 120)



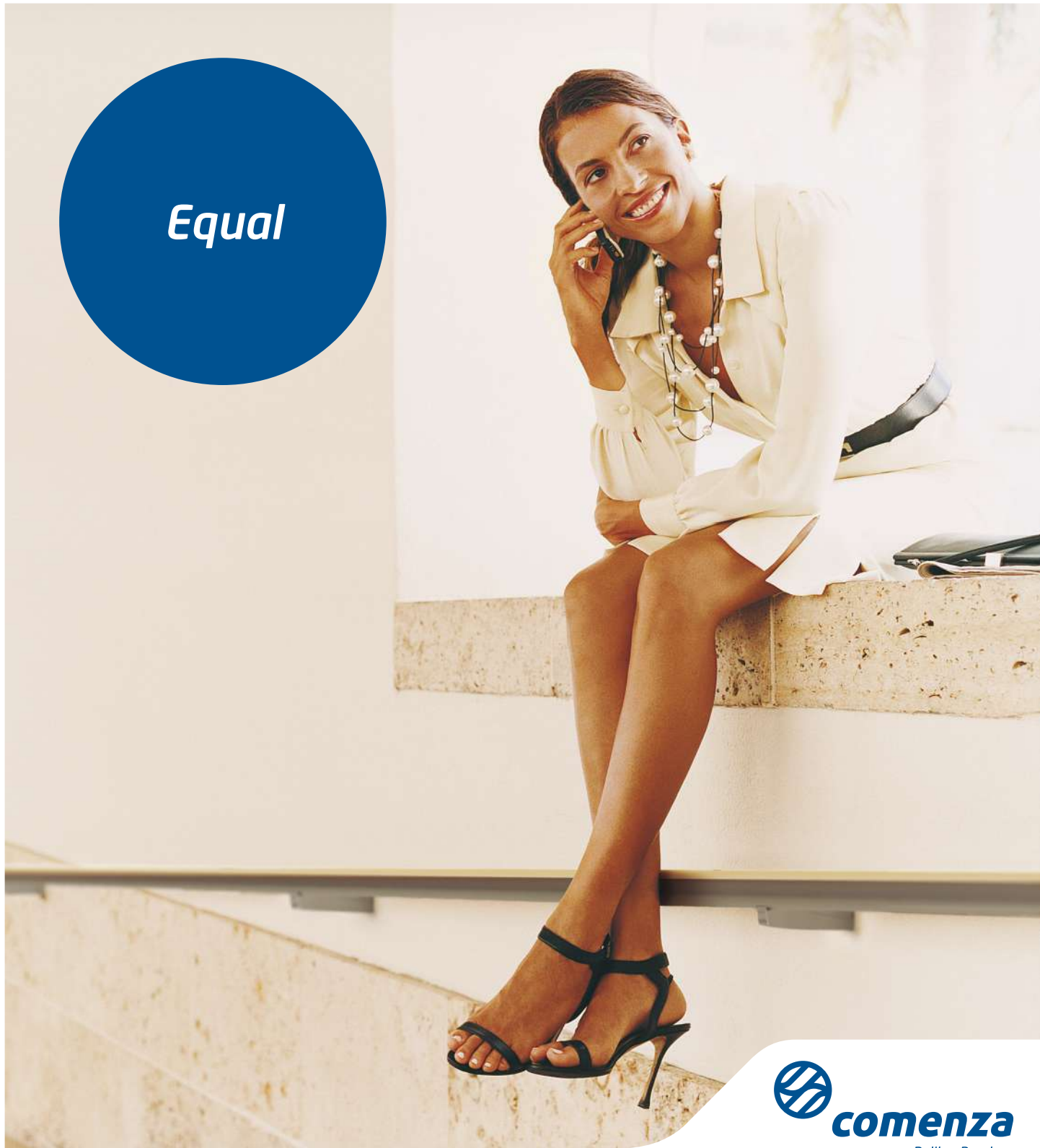


ST-313 AISI-316				BA	SATIN
	ØA	A	B		
2	40	44	34		

DIN-912 M-8 L-20 (Brico Pag. 114)

BR-2011 M-8 (Brico Pag. 115)





Sistema / System / Système
Handrail Equal
ST-334

Handrail Equal

[esp]

Diseño compacto.

Nuestra gama de sistemas de pasamanos para pared Equal, se distingue por su forma cuadrada de reducidas dimensiones en la que predominan las líneas rectas. Este aspecto geométrico aporta un toque diferenciador dentro de los estilos que suelen ser más habituales.

Junto con un diseño contemporáneo y minimalista, destaca por proporcionar la misma seguridad, agarre y sujeción que cualquier soporte de apariencia más tradicional. Apuesta por el equilibrio entre lo práctico y funcional combinado con una estética innovadora y un impacto visual mínimo.

Equal aporta elegancia y resistencia. Además, al estar fabricado en acero inoxidable (AISI 316) es perfecto tanto para ambientes interiores como exteriores.

Si buscas la combinación ideal entre belleza, resistencia y seguridad, estos sistemas de pasamanos serán la elección más acertada.

[eng]

Compact design.

Equal, our range of handrail systems is defined by its small square shape in which straight lines predominate. This geometric aspect provides a differentiating touch for styles that are usually more common.

Along with a contemporary and minimalist design, it stands out for providing the same security, grip and support as any traditional looking handrail. Equal is a bet on practical and functional desing combined with innovative aesthetics and minimal visual impact.

Equal provides elegance and resistance. It is made of stainless steel (AISI 316), and it's perfect for both indoor and outdoor environments.

If you are looking for the ideal combination of beauty, strength and safety, these handrail systems will be the best choice.

[fra]

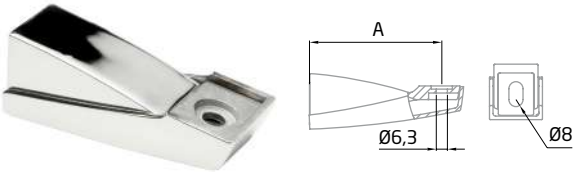
Design compact.

Equal, notre gamme de systèmes de mains courantes se définit par sa petite forme carrée dans laquelle prédominent les lignes droites. Cet aspect géométrique apporte une touche différenciante pour des styles généralement plus courants.

En plus d'un design contemporain et minimaliste, il se distingue par la même sécurité, la même adhérence et le même soutien que une main courante d'aspect traditionnel. Equal est un pari sur un design pratique et fonctionnel combiné à une esthétique innovante et un impact visuel minimal.

Equal apporte élégance et résistance. Il est fabriqué en acier inoxydable (AISI 316) et est parfait pour les environnements intérieurs et extérieurs.

Si vous recherchez la combinaison idéale de beauté, de résistance et de sécurité, ces systèmes de main courante seront le meilleur choix.



ST-334 FLAT AISI-316			BA	SATIN
	A	E*		
2	75	1,5		

BR-2012 (Brico Pag. 120)

DIN-7984 M-6 L-20 (Brico Pag. 114)

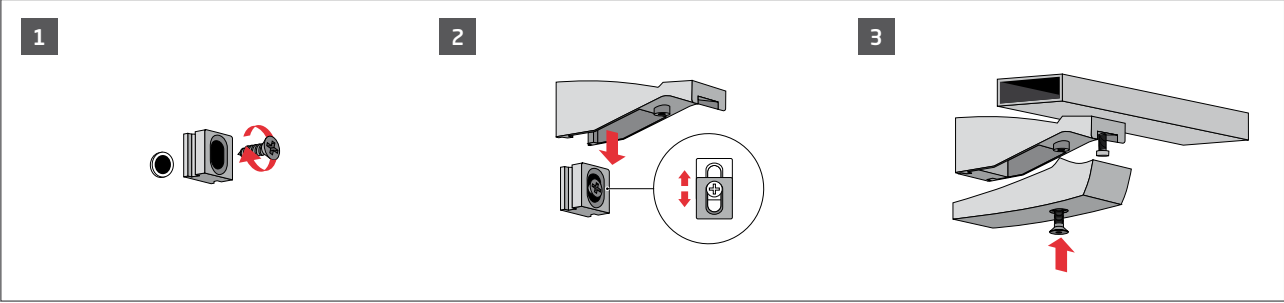
BR-2011 M-6 (Brico Pag. 115)

BR-2087 (Brico Pag. 120)



Instalación / Installation / Installation

ST-334 FLAT



Brico



FAST FIX GLUE (A-B 100ML)



1 kit

Duración aproximada / Estimated duration / Duration aproximative				
ø50,8	ø43	ø38,1	ø20	ø12
40	50	60	120	150

Características FAST FIX GLUE

- Envase bicomponente A+B
- Tiempo de manipulación: 1 - 3 minutos.
- Resistencia funcional: 30 - 60 minutos.
- Resistencia final: 24 horas.
- Holgura (mm): mín. 0,05 - máx.0,50 (recomendada 0,10 - 0,30).
- Guardar en el recipiente original bien cerrado y a temperaturas entre 5°C y 25°C.

FAST-FIX GLUE characteristics:

- A+B Bi-component packaging
- Handling time: 1-3 minutes
- Functional resistance: 30-60 minutes
- Final resistance: 24 hours
- Clearance (mm): min. 0.05 - max. 0.50 (recommended: 0.10-0.30)
- Store in the original pack, tightly sealed and at the temperature between 5°C and 25°C

Caractéristiques FAST-FIX GLUE

- Flacon bicomposant A+B.
- Temps de manipulation : 1-3 minutes
- Résistance fonctionnelle : 30-60 minutes
- Résistance finale : 24 heures
- Espace (mm) : min. 0,05 - max. 0,50 (recommandé : 0,10 - 0,30)
- Conserver dans le récipient original, bien fermé et à températures entre 5°C et 25°C.



FIS MS PRO



1

Serie	Ref.
RP	RP-1400, RP-1410

Sellante-adhesivo
Sealant-adhesive
Scellement-adhésif

BLACK



[esp]

El acero inoxidable aun siendo uno de los materiales más resistentes del mercado necesita de cuidados y mantenimientos que prolonguen su vida útil y para ello es importante utilizar los productos adecuados.

Desde Comenza ponemos a tu disposición dos productos que utilizados de manera correcta permitirán que tus barandillas de acero inoxidable luzcan en perfecto estado.

- **Clean+:** para limpieza rutinaria, mantenimiento periódico y eliminación de huellas.
- **Stain Zero:** para limpieza de manchas difíciles y marcas de oxidación.

[eng]

Even though stainless steel is one of the most resistant materials in the market, it needs care and maintenance, so its service life can be extended. For this reason, it is important to use the right products.

At Comenza we offer two products that, when used correctly, will allow your stainless steel railings to look always perfect.

- **Clean+:** for everyday cleaning, regular maintenance and fingerprints removal.
- **Stain Zero:** for the removal of difficult stain and rust marks.

[fra]

Bien que l'acier inoxydable soit un des matériaux les plus résistants du marché, il a besoin des soins et de l'entretien pour que sa vie utile soit plus longue. Pour cette fin, c'est important d'utiliser les produits adéquats.

Chez Comenza, nous offrons deux produits qui, employés correctement, permettront que votre garde-corps brille comme le premier jour.

- **Clean+:** pour le nettoyage habituel, l'entretien régulier et l'élimination d'empreintes.
- **Stain Zero:** pour l'élimination de taches difficiles et de marques d'oxydation.



CLEAN+ (500ml)



1

* Limpiador
Cleaner
Nettoyant

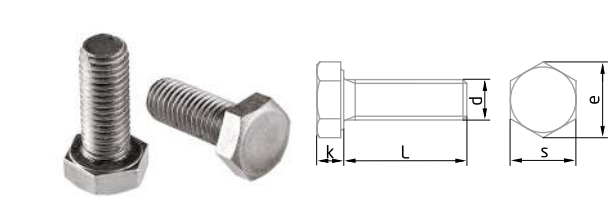


STAIN ZERO (500ml)



1

* Quitaóxido
Stain remover
Détachant

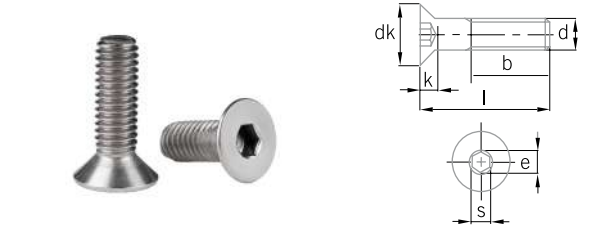


DIN-933

	Qty.		d	LG	K	e	s
100	CLASS 8.8/A2/A4	M10	30	6,4	18,9	17	
100	CLASS 8.8/A2/A4	M12	30	7,5	21,1	19	

M-10	Serie	Ref.
	SL	SL-1101,SL-1111

M-12	Serie	Ref.
	SL	SL-1100,SL-1110

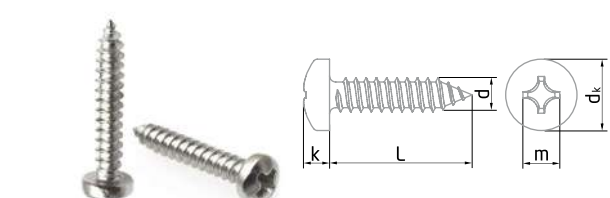


DIN-7991

	Qty.	d	LG	dK	K	e	S	B
50	A2/A4	M-6	25	12	3,3	4,7	4	18
50	A2/A4	M-6	40	12	3,3	4,7	4	18

M-6 L-25	Serie	Ref.
	ST	ST-320, ST-321, ST-322, ST-323, ST-325, ST-326, ST-328, ST-370

M-6 L-40	Serie	Ref.
	SA	SA-421



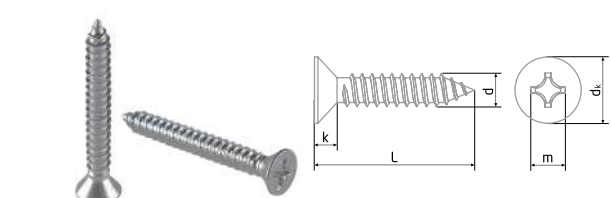
DIN-7981

	Qty.	d	LG	dK	k	m
50	A2	4,8	25	9,5	3,55	5,1
50	A2	6,3	60	12,5	4,5	7,1

D-4,8	Serie	Ref.
	BF	BFC-R 135°, BFC-R 90°, BF-R
	BG	BG-00, BG-R
	SA	SA-404, SA-449
	ST	ST-302, ST-319

D-6,3	Serie	Ref.
	AV	AV-610
	ST	ST-308, ST-333

* Uso con pasamanos de madera.
Use with wood handrail.
Utilisation avec mains-courantes en bois.



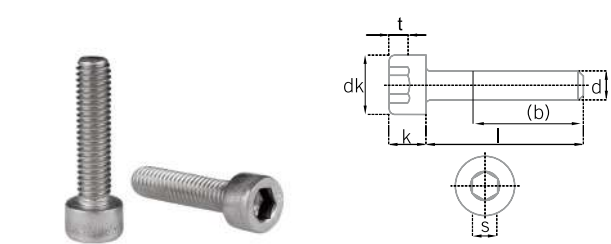
DIN-7982

	Qty.	d	LG	dk	k	m
50	A2/A4	3,9	25	7,5	2,3	4,6
50	A2/A4	6,3	60	12,4	3,8	7,1

D-3,9	Serie	Ref.
	ST	ST-303, ST-303 A, ST-303 FLAT, ST-340, , ST-391

D-6,3	Serie	Ref.
	ST	ST-334 FLAT, ST-345

* Uso con pasamanos de madera.
Use with wood handrail.
Utilisation avec mains-courantes en bois.



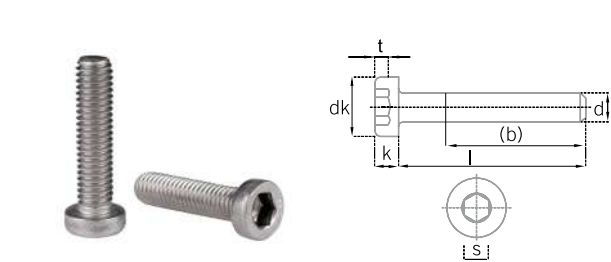
DIN-912

	Qty.	d	LG	dK	Kmax	S
50	A2	M-4	6	7	4	3
50	A2/A4	M-6	20	10	6	5
50	A2/A4	M-8	20	13	8	6

M-4	Serie	Ref.
	AL	AL-00

M-6	Serie	Ref.
	SA	SA-407
	ST	ST-309 43X20, ST-309 43X43, ST-309 50'8X20, ST-310 43X43

M-8	Serie	Ref.
	CC	CC-700, CC-701, CC-702, CC-703, CC-720, CC-721, CC-724, CC-725, CC-726, , CC-750, CC-751
	ST	ST-309 43x20, ST-309 50'8X50'8, ST-310 50'8X50'8, ST-312, ST-313



DIN-7984

	Qty.	d	LG	dK	K	S	t
50	A2/A4	M-6	20	10	4	4	3
50	A2/A4	M-8	30	13	5	5	3,8

M-6	Serie	Ref.
	ST	ST-334 FLAT



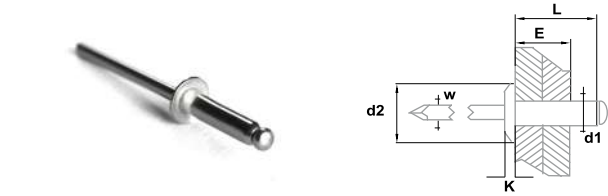
BR-2011

	Qty.	M
50	A2/A4	M-4
50	A4	M-6
50	A2/A4	M-8

M-4	Serie	Ref.
	AL	AL-00

M-6	Serie	Ref.
	SA	SA-405, SA-407
	SC	SC-800, SC-801
	ST	ST-303, ST-303 A, ST-303 FLAT, ST-308, ST-309 43X20, ST-309 43X43, ST-309 50,8X20, ST-320, ST-321, ST-322, ST-323, ST-325, ST-326, ST-328, ST-334 FLAT, ST-370

M-8	Serie	Ref.
	CC	CC-700, CC-701, CC-702, CC-703, CC-720, CC-721, CC-724, CC-725, CC-726, CC-750, CC-751, CC-768
	ST	ST-309 43x20, ST-309 50'8X50'8, ST-310 43X43, ST-310 50'8X50'8, ST-312, ST-313



BR-2015			
	Qty.	M	LG
	50	A2/A4	4
	50	A2/A4	4,8
			10
M-4	Serie	Ref.	
	ST	ST-303, ST-303 A, ST-303 FLAT, ST-340,	
M-4,8	Serie	Ref.	
	SA	SA-404, SA-449	
	BF	BFC-R 135°, BFC-R 90°, BF-R, BF-FLAT, BFC-FLAT 90, BFC-FLAT 135	
	BG	BG-R, BG-FLAT	
	ST	ST-302, ST-319, ST-335 FLAT, ST-392,	



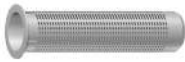
DIN-1587		
	Qty.	M
	250	A2/A4
	250	A2/A4
	250	A2/A4
		M-8
		M-10
		M-12
M-8	Serie	Ref.
	AV	AV-610
M-10	Serie	Ref.
	SL	SL-1101, SL-1111
M-12	Serie	Ref.
	SL	SL-1100, SL-1110



FIS VS	
	1
Serie	Ref.
BS	BS-00, BS-10, BS-20
SL	SL-1100, SL-1101, SL-1110, SL-1111, SL-1130, SA-451
SA	



FIS SE	
	10



BR-2016	
	10

* Tamices plásticos
Plastic anchor sleeve
Tamis plastiques



DIN-975

	Qty.	M	LG	
1	CLASS 8.8/A2/A4	M-8	1000	ø10
1	CLASS 8.8/A2/A4	M-10	1000	ø12
1	CLASS 8.8/A2/A4	M-12	1000	ø14

M-8	Serie	Ref.
	BS	BS-00

M-10	Serie	Ref.
	BS	BS-10,BS-20
	SL	SL-1101,SL-1111

M-12	Serie	Ref.
	BS	BS-00
	SL	SL-1100,SL-1110
	SA	SA-451



DIN-934

	Qty.	M	E*
250	CLASS 8/A2/A4	M-8	6,5
250	CLASS 8/A2/A4	M-10	8
250	CLASS 8/A2/A4	M-12	10

M-8	Serie	Ref.
	BS	BS-00

M-10	Serie	Ref.
	BS	BS-10,BS-20
	SL	SL-1101,SL-1111

M-12	Serie	Ref.
	BS	BS-00
	SL	SL-1100,SL-1110
	SA	SA-451



FAZ II

	Qty.	M	LG	E*	
25	STEEL / A4	M-10	105	20	ø10
20	STEEL / A4	M-12	120	20	ø12

M-10	Serie	Ref.
	BS	BS-10,BS-20
	SL	SL-1101

M-12	Serie	Ref.
	SL	SL-1100,SL-1110,SL-1111



FBN II

	Qty.	M	LG	E*	
25	STEEL/A4	M-10	95	20	ø10
20	STEEL/A4	M-12	116	20	ø12

M-10	Serie	Ref.
	BS	BS-20
	SL	SL-1101

M-12	Serie	Ref.
	SL	SL-1100,SL-1110,SL-1111



DIN-125

	Qty.	M	E*
250	STEEL /A2/A4	M-8	1,6
250	STEEL /A2/A4	M-10	2
250	STEEL /A2/A4	M-12	2,5

M-8	Serie	Ref.
	BS	BS-00

M-10	Serie	Ref.
	BS	BS-10,BS-20
	SL	SL-1101,SL-1111

M-12	Serie	Ref.
	BS	BS-00
	SL	SL-1100,SL-1110
	SA	SA-451



CH

	Qty.	M	LG	E*	
50	STEEL/A2	M-8	80	15	ø10
50	STEEL/A2	M-10	100	25	ø12



CH-PL

	Qty.	M	LG	E*	
50	STEEL/A2	M-10	100	25	ø12



MT

	Qty.	M	LG	E*	
50	STEEL/A2/A4	M-10	90	10	ø10
50	STEEL/A2/A4	M-10	150	10	ø10
50	STEEL/A2/A4	M-12	110	12	ø12



BR-2012

	Qty.	LG	E*	
50	STEEL/A4	80	10	ø8

Serie	Ref.
ST	ST-334 FLAT, ST-345, ST-346, ST-353, ST-353 W, ST-354, ST-358



BR-2018

	Qty.	LG	E*	
50	STEEL/A4	80	10	ø8

Serie	Ref.
AV	AV-610
ST	ST-308 43, ST-308 50,8, ST-333

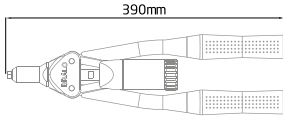


BR-2087

	Qty.	* øT	* P	
100	NYLON	4,5-6,0	50	ø8
100	NYLON	6,0-8,0	65	ø10

4,5-6,0	Serie	Ref.
	ST	ST-303, ST-303 A, ST-303 FLAT, ST-303 W, ST-304, ST-304 END, ST-306, ST-306 END, ST-335 FLAT, ST-353, ST-353 W
	CT	CT-208
	AV	AV-600, AV-601, AV-602

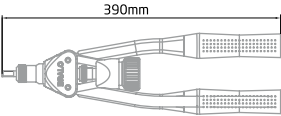
6,0-8,0	Serie	Ref.
	ST	ST-334 FLAT, ST-345, ST-333, ST-308 43, ST-308 50,8, W, ST-354, ST-356, ST-356 FLAT, ST-358
	AV	AV-610



BM-160

ø mm	Aluminio Aluminium	Acero Iron / Acier	Stainless Steel	Cobre Cooper/Cuivre
4,0	✓	✓	✓	✓
4,8	✓	✓	✓	✓

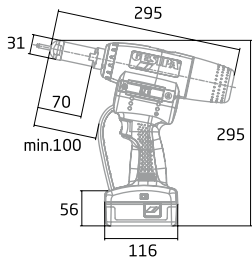
* Remachadora
Rivet gun
Riveteuse



TR-308

ø mm	Aluminio Aluminium	Acero Iron / Acier	Stainless Steel
M-4	✓	✓	✓
M-6	✓	✓	✓
M-8	✓	✓	✓

* Remachadora de tuercas remachables
Nuts rivet gun
Riveteuse d'écroux



FIREBIRD PRO

ø mm	Aluminio Aluminium	Acero Iron / Acier	Stainless Steel
M-4	✓	✓	✓
M-6	✓	✓	✓
M-8	✓	✓	✓

* Remachadora de tuercas remachables automática
Automatic rivet gun
Riveteuse automatique



BR-2060

1
Ref.
FIS VS, FIS MS PRO

* Pistola para taco químico
Chemical anchor gun
Outil pour fixation chimique



BR-2075

1

* Amoladora
Angle grinder
Meleuse



BR-2036

1

Martillo
Hammer
Marteu



BR-2037

1

Llave dinamométrica 20-100 Nm Gedore
Torque wrench 20-100 Nm Gedore
Clé dynamométrique 20-100 Nm Gedore



BR-2054

1

Multinivel
Multilevel
Multiniveau



BR-2064

1

Tenaza para cortar cable
Wire stripper
Tenaille coupe-câble



BR-2033

1

Herramienta multiusos allen cabeza hexagonal
Allen hexagonal head multi-purpose tool
Outil multifonction allen à tête hexagonale



BR-2034

1

Juego de llaves allen-bola con cabeza corta 1,5-10
Allen-ball wrench set with short head 1,5-10
Jeu de clés allen-boule à tête courte 1,5-10



BR-2051

1

Nivel medidor ángulos
Angle meter spirit level
Rapporteur d'angle niveau à bulle



BR-2035

1

Juego de llaves allen-bola 1,5-10
Ball point hex wrench set 1,5-10
Jeu de clés allen à boule 1,5-10



BR-2073

1

Juego de brocas especial inox 1-13x0,5
Stainless steel drill bit set 1-13x0,5
Jeu de méches en acier inox 1-13x0,5



BR-2070

α

10-45°

Sierra cinta portatil
Portable belt saw
Scie à ruban portable



BR-2071

Info

11440x13x0,65 (10/14)

Cinta de sierra
Band Saw
Lames de scie à ruban

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