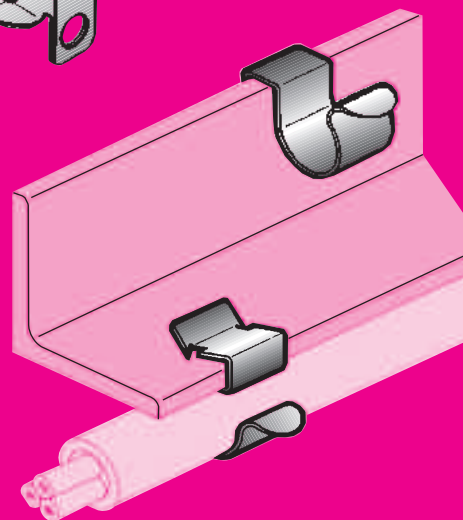
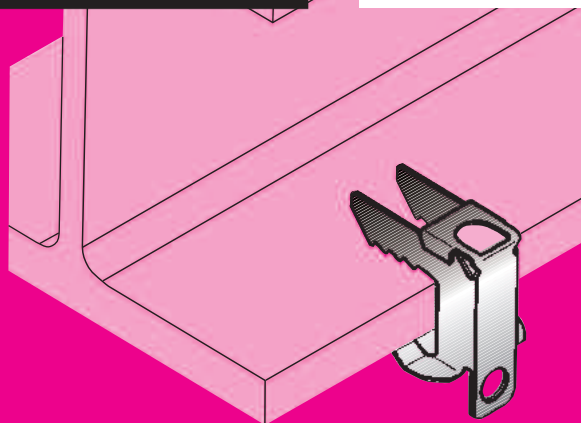
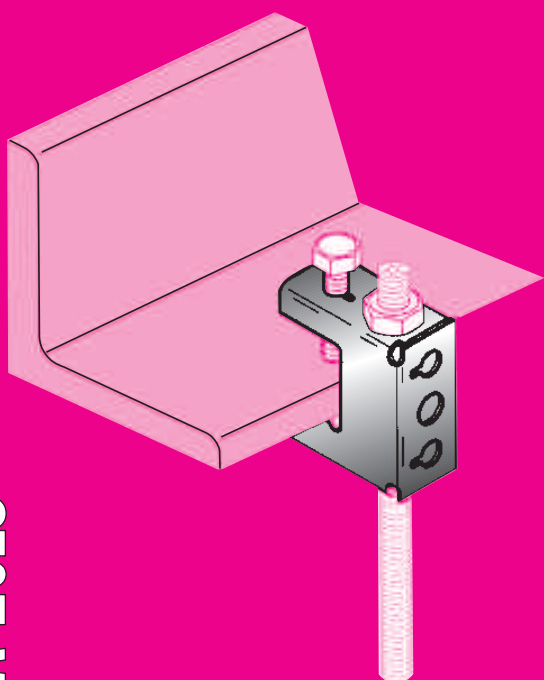


SOCIEDAD ANONIMA



Elementos de fijación rápida
Elements de fixation rapide
Quick attachment devices
Schnellen befestigungselemente



A-2018

Elementos de fijación rápida

Los elementos de fijación rápida SINARD constituyen la solución ideal para la unión de estructuras metálicas o de hormigón con otros elementos: Cables, tubos, bandejas, abrazaderas, falsos techos, etc.

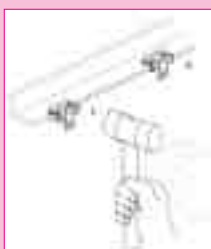
Se caracterizan por las siguientes ventajas:

RAPIDEZ: El montaje comporta un auténtico ahorro de tiempo y dinero para los instaladores.

AMPLIA GAMA: Piezas combinadas para adaptarse a cualquier necesidad.

SEGURIDAD Y COMODIDAD: No es preciso taladrar la estructura metálica.

ACABADOS: Todos los elementos de fijación SINARD disponen de una capa anticorrosiva.



MODO DE EMPLEO

La colocación de los elementos de fijación es fácil y rápida, en la mayoría de los casos basta con un simple golpe de martillo.

CARGAS DE APLICACIÓN

Los elementos de fijación SINARD se ensayan y comprueban, aplicándose un

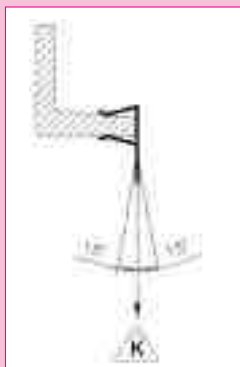
coeficiente de seguridad de 3.

Ej: Ensayos Sinard Positivos a 150 Kg = 50 Kg Catálogo

Los valores de carga expresadas se entienden como límites para cargas estáticas aplicadas verticalmente a la estructura o instalación.

Cuando las fijaciones se combinan entre sí, el valor de carga lo determina el elemento de menor capacidad.

Si la estructura a la que se cuelga la fijación tiene un valor de carga menor que la fijación, ésta determinará el valor de carga máxima a aplicar.



MATERIAL UTILIZADO

Acero al carbono para muelles según Norma DIN 17222(UNE-EN10132-4). Acero que después de un temple y revenido adquiere una dureza HRc 43÷50

PROTECCIÓN CONTRA LA CORROSIÓN

Color Negro

Para interiores y ambientes no corrosivos

Acabado Sinard

Para interiores, exteriores, ambientes húmedos o ligeramente corrosivos

- Recubrimiento no electrolítico, compuesto de láminas de cinc y de aluminio fijándose mediante reacción química sobre la superficie del acero.
- Recubrimiento no hidrogenante (sin electrólisis ni decapados ácidos)
- Conductividad eléctrica. Alta resistencia a la temperatura.
- Libre de cromo VI y cromo III. Valores de fricción reducidos.
- Alta protección contra la corrosión Protección catódica.
- Óptica: Gris - Plata

RESISTENCIA a la corrosión en cámara de niebla salina de hasta 480 h (DIN 50021).

NOTA

Debido a las mejoras industriales, S.A. SINARD se reserva el derecho a modificar el diseño de las fijaciones ilustradas respetando la característica de carga estática.

Elements de fixation rapide

Les éléments de fixation rapide SINARD constituent la solution idéale pour l'union de structures métalliques ou en béton avec d'autres éléments: Câbles, tubes, plateaux, colliers, plafonds suspendus, etc.

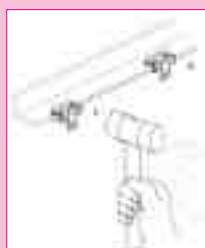
Ils se caractérisent par les avantages suivants :

RAPIDITÉ: Le montage représente une authentique économie de temps et d'argent pour les installateurs.

VASTE GAMME: Pièces combinées pour qu'elles s'adaptent à tout besoin.

SÉCURITÉ ET COMMODITÉ: Il n'est pas nécessaire de trouver la structure métallique.

FINITIONS: Tous les éléments de fixation SINARD sont recouverts d'une couche anticorrosive.



MODE D'EMPLOI

La pose des éléments de fixation est facile et rapide. Dans la majorité des cas, un simple coup de marteau suffit.

CHARGES D'APPLICATION

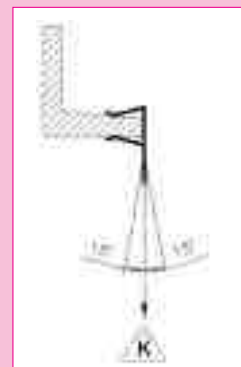
Les éléments de fixation SINARD sont testés et contrôlés, un coefficient de sécurité 3 étant appliqué.

Ex. : Tests Sinard Positifs à 150 Kg = 50 Kg Catalogue

Les valeurs de charge exprimées sont à interpréter comme limites pour des charges statiques appliquées verticalement à la structure ou à l'installation.

Quand les fixations sont combinées entre elles, la valeur de charge est déterminée par l'élément dont la capacité est la moins élevée.

Si la structure à laquelle est posée la fixation a une valeur de charge inférieure à celle de la fixation, celle-ci déterminera la valeur de charge maximale à appliquer.



MATÉRIAU UTILISÉ

Acier au carbone pour les ressorts selon la Norme DIN 17222(UNE-EN10132-4). Acier qui, après un trempage et un revenu, acquiert une dureté HRc 43÷50

PROTECTION ANTI CORROSIVE

Couleur Noire

Pour intérieurs et ambiances non corrosives.

Finition Sinard

Pour intérieur, extérieur, ambiances humides ou légèrement corrosives

- Revêtement non électrolytique, composé de feuilles de zinc et d'aluminium fixées au moyen d'une réaction chimique sur la surface de l'acier.
- Revêtement non hydrogénant (sans électrolyse ni décapages acides)
- Conductivité électrique. Haute résistance à la température.
- Sans chrome VI ni chrome III. Valeurs de friction réduites.
- Haute protection contre la corrosion. Protection cathodique.
- Optique : Gris - Argent

RÉSISTENCE à la corrosion en chambre de brouillard salin atteignant 480 h (DIN 50021).

NOTE

Grâce aux améliorations industrielles, S.A. SINARD se réserve le droit de modifier le dessin des fixations illustrées en respectant la caractéristique de charge statique.



Quick attachment devices

SINARD quick attachment devices are the ideal solution for joining metal or concrete structures with other elements: Cables, pipes, trays, clamps, false ceilings, etc.

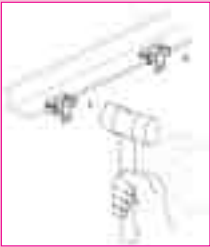
They are characterised by the following advantages:

SPEED: Assembly means real savings in time and money for installers.

WIDE RANGE: Parts combined to adapt to any requirement.

SAFETY AND COMFORT: It is not necessary to drill the metal structure.

FINISHES: All SINARD fixing elements have a rustproof layer.



INSTRUCTIONS FOR USE

It is easy and quick to fit the fixing elements, in most cases by simply using a hammer.

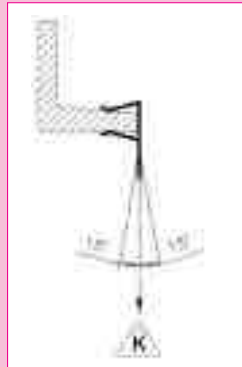
APPLICATION LOADS

SINARD fixing elements are tested and checked by applying a safety coefficient of 3.

E.g.: Sinard Positive tests at 150 Kg = 50 Kg Catalogue
The loads presented are understood as limits for static loads applied vertically to the structure or installation.

When the fixtures are combined, the load value is determined by the element with least capacity.

If the structure upon which the fixture is hung has a smaller load value than the fixture, it will be the structure that will determine the maximum load to be applied.



MATERIAL USED

Carbon steel for springs according to DIN 17222 (UNE-EN10132-4). Steel that after tempering and shrinking acquires a hardness of HRC 43÷50

ANTI- RUST SURFACE FINISH

Black colour

For interiors and non corrosive environments.

Sinard finishing

For interiors, exteriors, damp or slightly corrosive environments

- Non electrolytic coating comprising zinc and aluminium layers fixed to the surface of the steel by chemical reaction.
 - Non hydrogenating coating (without electrolysis or acid scaling)
 - Electrical conductivity. High resistance to temperature.
 - Free of chrome VI and chrome III. Low friction values.
- High protection against cathodic corrosion.
- View: Silver grey

RESISTANCE to corrosion in saline mist for up to 480 hours (DIN 50021).

NOTE

Due to industrial improvements, S.A. SINARD reserves the right to modify the design of the illustrated fixtures while respecting the static load characteristic.

Schnellen befestigungselemente



Die schnellen Befestigungselemente von SINARD sind die perfekte Lösung für die Verbindung von Metall- oder Betonstrukturen mit anderen Elementen: Kabel, Rohre, Platten, Schellen, falsche Decken, etc.

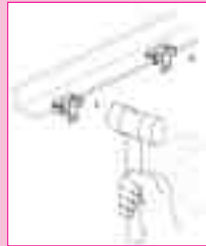
Sie bieten folgende Vorteile:

SCHNELLIGKEIT: Installateure sparen Zeit und Geld bei der Montage.

GROÙE VIELFALT: Kombinierte Teile, die sich jedem Bedarf anpassen.

SICHERHEIT UND BEQUEMLICHKEIT: Die Metallstruktur braucht nicht gebohrt zu werden.

ENDVERARBEITUNGEN: Alle SINARD Fixierelemente werden mit einer korrosionsschützenden Beschichtung versehen.



ANWENDUNG

Die Anbringung der Fixierelemente erfolgt schnell und einfach. In den meisten Fällen genügt ein einfacher Hammerschlag.

GELTENDE BELASTUNGSWERTE

SINARD Fixierelemente werden mit dem Sicherheitskoeffizient 3 getestet und geprüft.

Beispiel: Positive Sinard Prüfungen bei 150 Kg = 50 Kg im Katalog.

Die angegebenen Belastungswerte sind Grenzwerte für statische Lasten, die senkrecht auf die Struktur oder Anlage einwirken.

Wenn Fixierelemente miteinander kombiniert werden, wird der Belastungswert von dem Element mit geringerer Kapazität bestimmt. Wenn die Struktur an der das Fixierelement angebracht wird einen geringeren Belastungswert als das Fixierelement hat, ist die Struktur für die Angabe des Belastungshöchstwertes maßgebend.



EINGESETZTES MATERIAL

Kohlenstoff-Federstahl nach DIN 17222 (UNE-EN10132-4). Gehärtet und angelassen auf HRC 43÷50

KORROSIONSSCHUTZ

Schwarze Farbe

Für Innenbereiche und nicht korrodierenden Umgebungen.

Sinard Endverarbeitung

Für Innen- und Außenbereiche, feuchte oder leicht korrodierenden Umgebungen

- Nicht-elektrolytische Beschichtung aus Zink- und Aluminiumlamellen, die durch chemische Reaktion auf die Stahlfläche haften.
- Nicht hydrierende Beschichtung (weder durch Elektrolyse noch durch Beizen mit Säure)
- Elektrische Leitfähigkeit. Hohe Temperaturfestigkeit.
- Kein Chrom-VI und Chrom-III Gehalt. Geringe Reibungswerte.
- Hoher Korrosionsschutz. Kathodischer Schutz.
- Aussehen: Grau - Silber

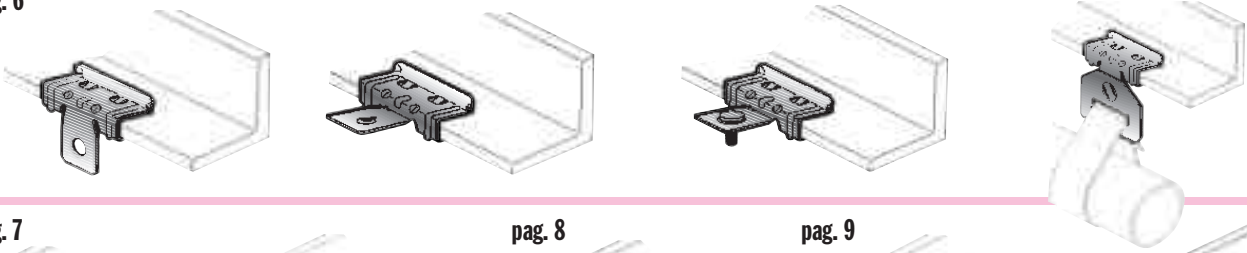
KORROSIONSFEST in einer Salznebelkammer bis zu 480 h (DIN 50021).

ANMERKUNG

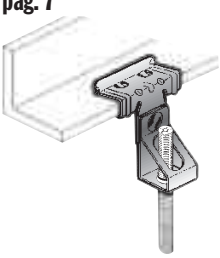
Angesichts der ständigen Verbesserungen im Industriebereich, behält sich S.A. SINARD das Recht vor, das Design der hier gezeigten Fixierelemente zu ändern, jedoch unter Beibehaltung der Eigenschaften in Bezug zu der statischen Last.



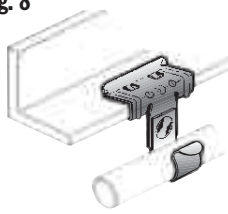
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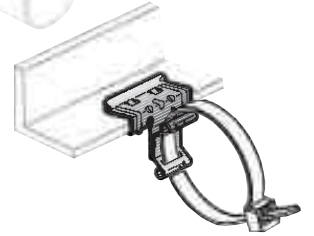
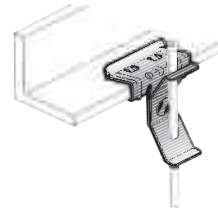
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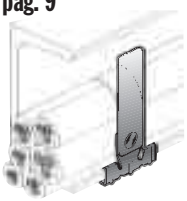
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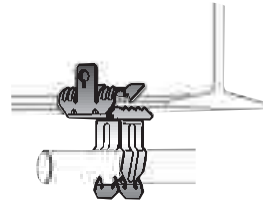
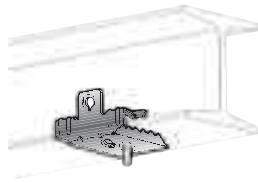
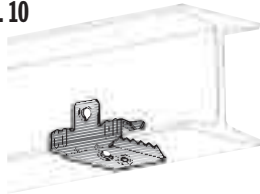
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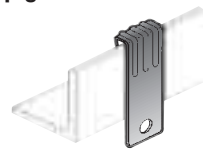
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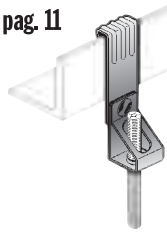
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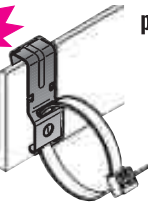
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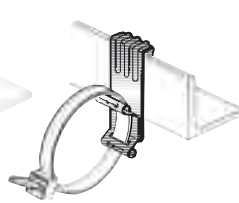
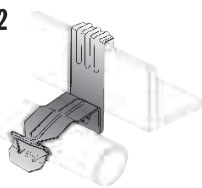
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NEW



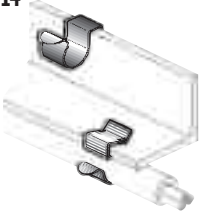
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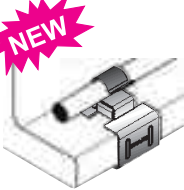
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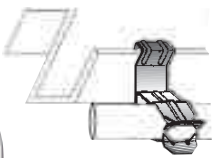
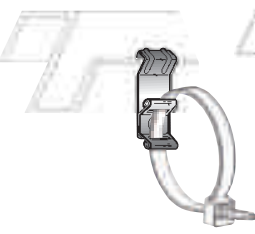
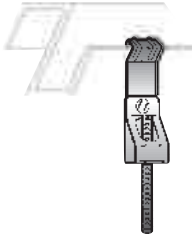
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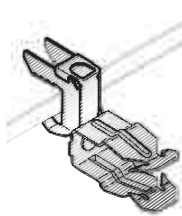
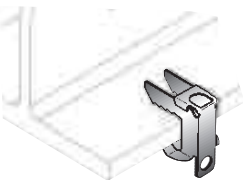
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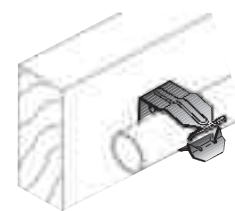
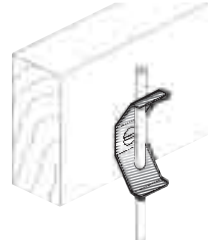
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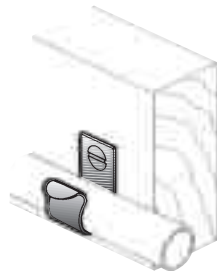
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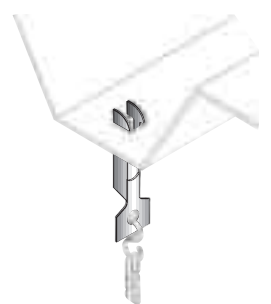
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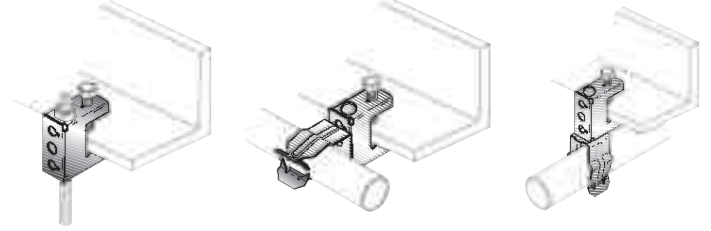




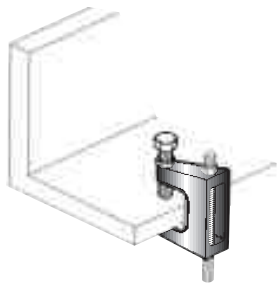
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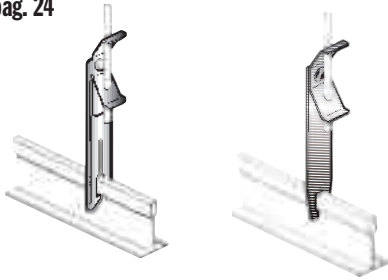
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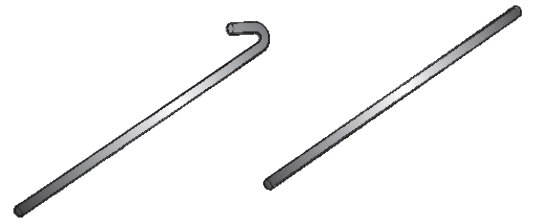
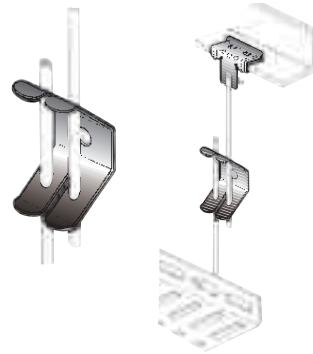
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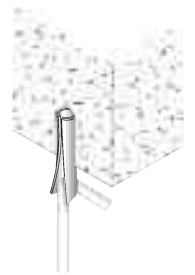
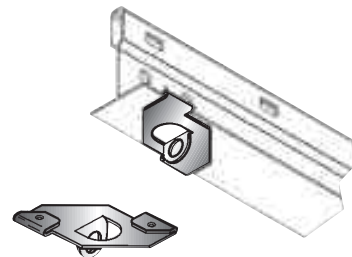
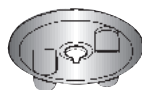
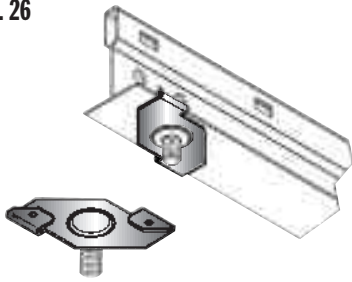
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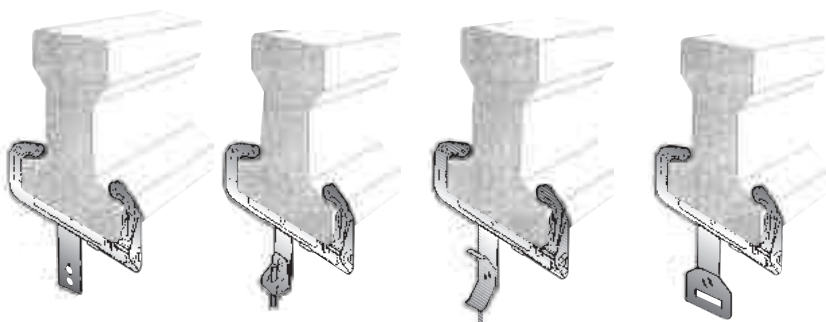
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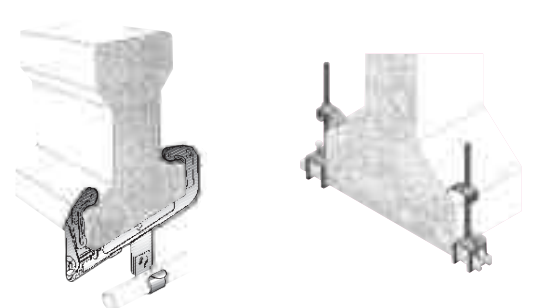
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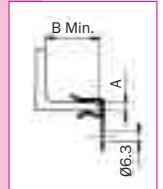
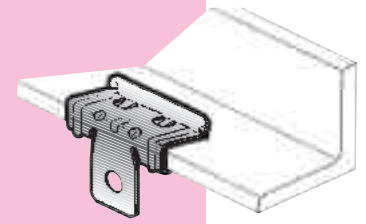


Elementos de fijación rápida
Elements de fixation rapide

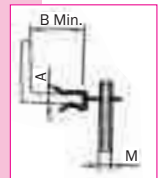
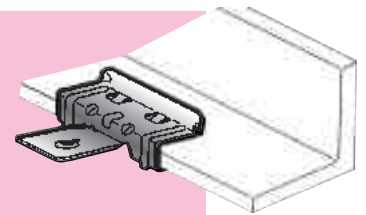
Quick attachment devices
Schnellen befestigungselemente



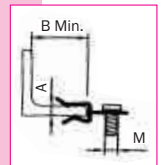
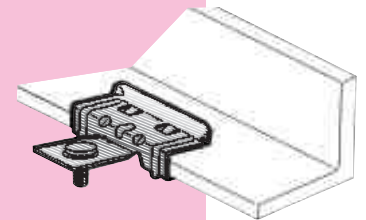
A mm.	B mm.	Kg.		Negro / Noire / Black / Schwarze		
				Cód.	Ref.	€/100
1,5 - 4	18	70	100	10013001	FH4 (100)	27,30
4 - 10	25	90	100	10013002	FH10 (101)	38,40
10 - 15	25	90	100	10013003	FH15 (102)	42,50
15 - 20	25	90	100	10013004	FH20 (103)	46,30
Acabado / Finition / Finishing / Endverarbeitung: SINARD						
1,5 - 4	18	70	100	1001300150	FH4 DT (100 DT)	35,50
4 - 10	25	90	100	1001300250	FH10 DT (101 DT)	49,90
10 - 15	25	90	100	1001300350	FH15 DT (102 DT)	55,30
15 - 20	25	90	100	1001300450	FH20 DT (103 DT)	60,30



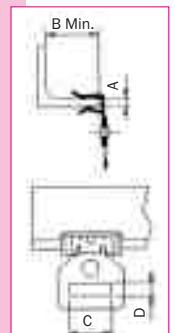
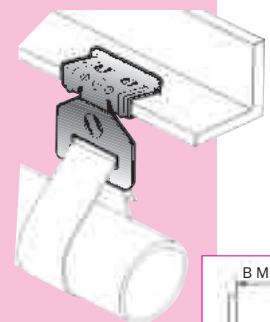
A mm.	B mm.	M	Kg.		Negro / Noire / Black / Schwarze		
					Cód.	Ref.	€/100
4 - 10	18	M6	20	100	10013190	FH10 AP-R (101 AP-R)	65,30
10 - 15	25	M6	20	100	10013191	FH15 AP-R (102 AP-R)	70,80
Acabado / Finition / Finishing / Endverarbeitung: SINARD							
4 - 10	18	M6	20	100	1001319050	FH10 AP-R DT (101 AP-R DT)	85,10
10 - 15	25	M6	20	100	1001319150	FH15 AP-R DT (102 AP-R DT)	92,10



A mm.	B mm.	M	Kg.		Negro / Noire / Black / Schwarze		
					Cód.	Ref.	€/100
4 - 10	18	M6x9	20	100	10013195	FH10 AP-T (101 AP-T)	87,60
10 - 15	25	M6x9	20	100	10013196	FH15 AP-T (102 AP-T)	96,70
Acabado / Finition / Finishing / Endverarbeitung: SINARD							
4 - 10	18	M6x9	20	100	1001319550	FH10 AP-T DT (101 AP-T DT)	117,30
10 - 15	25	M6x9	20	100	1001319650	FH15 AP-T DT (102 AP-T DT)	125,80



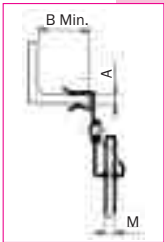
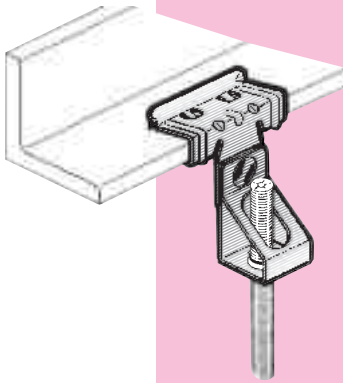
A mm.	B mm.	CxD	Kg.		Negro / Noire / Black / Schwarze		
					Cód.	Ref.	€/100
1,5 - 4	18	28 x 6,5	45	100	10013054	FH4-SH (100-230)	41,60
4 - 10	25	28 x 6,5	45	100	10013069	FH10-SH (101-230)	58,80
10 - 15	25	28 x 6,5	45	100	10013084	FH15-SH (102-230)	65,70
15 - 20	25	28 x 6,5	45	100	10013099	FH20-SH (103-230)	73,40
Acabado / Finition / Finishing / Endverarbeitung: SINARD							
1,5 - 4	18	28 x 6,5	45	100	1001305450	FH4-SH DT (100-230 DT)	54,10
4 - 10	25	28 x 6,5	45	100	1001306950	FH10-SH DT (101-230 DT)	76,30
10 - 15	25	28 x 6,5	45	100	1001308450	FH15-SH DT (102-230 DT)	85,80
15 - 20	25	28 x 6,5	45	100	1001309950	FH20-SH DT (103-230 DT)	95,90





Elementos de fijación rápida
Elements de fixation rapide

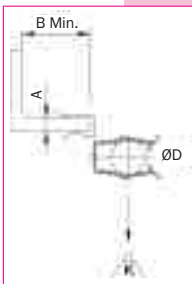
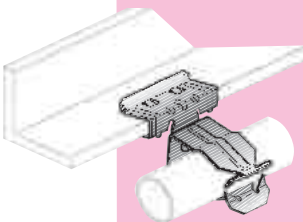
Quick attachment devices
Schnellen befestigungselemente



A mm.	B mm.	M	Kg.		Negro / Noire / Black / Schwarze Cód.	Ref.	€/100
1,5 - 4	18	M6	70	100	10013049	FH4-ICA6 (100-210)	71,20
1,5 - 4	18	M8	70	100	10013050	FH4-ICA8 (100-211)	71,20
1,5 - 4	18	M10	70	100	10013051	FH4-ICA10 (100-212)	71,20
4 - 10	25	M6	70	100	10013064	FH10-ICA6 (101-210)	88,20
4 - 10	25	M8	70	100	10013065	FH10-ICA8 (101-211)	88,20
4 - 10	25	M10	70	100	10013066	FH10-ICA10 (101-212)	88,20
10 - 15	25	M6	70	100	10013079	FH15-ICA6 (102-210)	92,40
10 - 15	25	M8	70	100	10013080	FH15-ICA8 (102-211)	92,40
10 - 15	25	M10	70	100	10013081	FH15-ICA10 (102-212)	92,40
15 - 20	25	M6	70	100	10013094	FH20-ICA6 (103-210)	107,30
15 - 20	25	M8	70	100	10013095	FH20-ICA8 (103-211)	107,30
15 - 20	25	M10	70	100	10013096	FH20-ICA10 (103-212)	107,30

Acabado / Finition / Finishing / Endverarbeitung: SINARD

1,5 - 4	18	M6	70	100	1001304950	FH4-ICA6 DT (100-210 DT)	92,50
1,5 - 4	18	M8	70	100	1001305050	FH4-ICA8 DT (100-211 DT)	92,50
1,5 - 4	18	M10	70	100	1001305150	FH4-ICA10 DT (100-212 DT)	92,50
4 - 10	25	M6	70	100	1001306450	FH10-ICA6 DT (101-210 DT)	114,80
4 - 10	25	M8	70	100	1001306550	FH10-ICA8 DT (101-211 DT)	114,80
4 - 10	25	M10	70	100	1001306650	FH10-ICA10 DT (101-212 DT)	114,80
10 - 15	25	M6	70	100	1001307950	FH15-ICA6 DT (102-210 DT)	120,00
10 - 15	25	M8	70	100	1001308050	FH15-ICA8 DT (102-211 DT)	120,00
10 - 15	25	M10	70	100	1001308150	FH15-ICA10 DT (102-212 DT)	120,00
15 - 20	25	M6	70	100	1001309450	FH20-ICA6 DT (103-210 DT)	139,40
15 - 20	25	M8	70	100	1001309550	FH20-ICA8 DT (103-211 DT)	139,40
15 - 20	25	M10	70	100	1001309650	FH20-ICA10 DT (103-212 DT)	139,40



A mm.	B mm.	ØD mm.	Kg.		Cód.	Ref.	€/100
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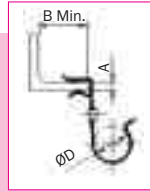
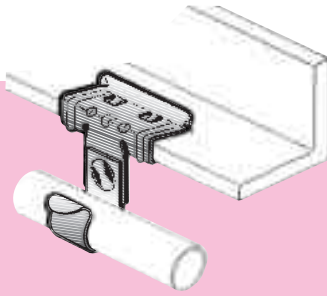
Acabado / Finition / Finishing / Endverarbeitung: SINARD

1,5 - 4	18	18-22	7	100	1001354350	FH4-IC22 DT (100-280 DT)	85,90
1,5 - 4	18	22-30	7	100	1001354450	FH4-IC30 DT (100-281 DT)	90,10
1,5 - 4	18	30-35	7	100	1001354550	FH4-IC35 DT (100-282 DT)	94,90
4 - 10	25	18-22	7	100	1001354650	FH10-IC22 DT (101-280 DT)	101,60
4 - 10	25	22-30	7	100	1001354750	FH10-IC30 DT (101-281 DT)	105,80
4 - 10	25	30-35	7	100	1001354850	FH10-IC35 DT (101-282 DT)	110,90
10 - 15	25	18-22	7	100	1001354950	FH15-IC22 DT (102-280 DT)	107,50
10 - 15	25	22-30	7	100	1001355050	FH15-IC30 DT (102-281 DT)	111,70
10 - 15	25	30-35	7	100	1001355150	FH15-IC35 DT (102-282 DT)	116,60
15 - 20	25	18-22	7	100	1001355250	FH20-IC22 DT (103-280 DT)	112,90
15 - 20	25	22-30	7	100	1001355350	FH20-IC30 DT (103-281 DT)	117,10
15 - 20	25	30-35	7	100	1001355450	FH20-IC35 DT (103-282 DT)	122,10



Elementos de fijación rápida
Elements de fixation rapide

Quick attachment devices
Schnellen befestigungselemente

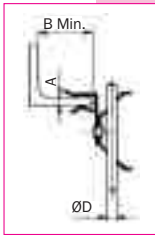
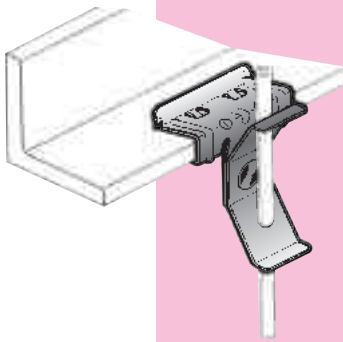


A mm.	B mm.	ØD mm.	Negro / Noire / Black / Schwarze			Acabado / Finition / Finishing / Endverarbeitung: SINARD		
			Cód.	Ref.	€/100	Cód.	Ref.	€/100
1,5-4	18	12-14	10013056	FH4-SC14 (100-310.1)	50,20	1001305650	FH4-SC14 DT (100-310.1 DT)	65,30
1,5-4	18	15-18	10013057	FH4-SC18 (100-312.1)	53,90	1001305750	FH4-SC18 DT (100-312.1 DT)	70,60
1,5-4	18	19-24	10013058	FH4-SC24 (100-314.1)	57,20	1001305850	FH4-SC24 DT (100-314.1 DT)	74,40
1,5-4	18	25-30	10013059	FH4-SC30 (100-316.1)	59,60	1001305950	FH4-SC30 DT (100-316.1 DT)	77,50
1,5-4	18	31-35	10013060	FH4-SC35 (100-317.1)	62,40	1001306050	FH4-SC35 DT (100-317.1 DT)	81,10
1,5-4	18	36-40	10013061	FH4-SC40 (100-318.1)	70,80	1001306150	FH4-SC40 DT (100-318.1 DT)	92,10
1,5-4	18	41-45	10013062	FH4-SC45 (100-319.1)	73,30	1001306250	FH4-SC45 DT (100-319.1 DT)	95,20
1,5-4	18	46-50	10013063	FH4-SC50 (100-320.1)	75,80	1001306350	FH4-SC50 DT (100-320.1 DT)	98,60
4-10	25	12-14	10013071	FH10-SC14 (101-310.1)	68,60	1001307150	FH10-SC14 DT (101-310.1 DT)	89,30
4-10	25	15-18	10013072	FH10-SC18 (101-312.1)	72,10	1001307250	FH10-SC18 DT (101-312.1 DT)	93,80
4-10	25	19-24	10013073	FH10-SC24 (101-314.1)	75,60	1001307350	FH10-SC24 DT (101-314.1 DT)	98,30
4-10	25	25-30	10013074	FH10-SC30 (101-316.1)	78,00	1001307450	FH10-SC30 DT (101-316.1 DT)	101,30
4-10	25	31-35	10013075	FH10-SC35 (101-317.1)	80,70	1001307550	FH10-SC35 DT (101-317.1 DT)	104,80
4-10	25	36-40	10013076	FH10-SC40 (101-318.1)	89,10	1001307650	FH10-SC40 DT (101-318.1 DT)	115,70
4-10	25	41-45	10013077	FH10-SC45 (101-319.1)	91,60	1001307750	FH10-SC45 DT (101-319.1 DT)	119,10
4-10	25	46-50	10013078	FH10-SC50 (101-320.1)	94,10	1001307850	FH10-SC50 DT (101-320.1 DT)	122,50
10-15	25	12-14	10013086	FH15-SC14 (102-310.1)	72,90	1001308650	FH15-SC14 DT (102-310.1 DT)	94,50
10-15	25	15-18	10013087	FH15-SC18 (102-312.1)	76,40	1001308750	FH15-SC18 DT (102-312.1 DT)	99,40
10-15	25	19-24	10013088	FH15-SC24 (102-314.1)	79,80	1001308850	FH15-SC24 DT (102-314.1 DT)	103,70
10-15	25	25-30	10013089	FH15-SC30 (102-316.1)	82,20	1001308950	FH15-SC30 DT (102-316.1 DT)	107,00
10-15	25	31-35	10013090	FH15-SC35 (102-317.1)	84,90	1001309050	FH15-SC35 DT (102-317.1 DT)	110,40
10-15	25	36-40	10013091	FH15-SC40 (102-318.1)	93,30	1001309150	FH15-SC40 DT (102-318.1 DT)	121,30
10-15	25	41-45	10013092	FH15-SC45 (102-319.1)	95,90	1001309250	FH15-SC45 DT (102-319.1 DT)	124,60
10-15	25	46-50	10013093	FH15-SC50 (102-320.1)	98,40	1001309350	FH15-SC50 DT (102-320.1 DT)	128,00
15-20	25	12-14	10013101	FH20-SC14 (103-310.1)	81,60	1001310150	FH20-SC14 DT (103-310.1 DT)	105,70
15-20	25	15-18	10013102	FH20-SC18 (103-312.1)	85,90	1001310250	FH20-SC18 DT (103-312.1 DT)	111,80
15-20	25	19-24	10013103	FH20-SC24 (103-314.1)	90,00	1001310350	FH20-SC24 DT (103-314.1 DT)	117,10
15-20	25	25-30	10013104	FH20-SC30 (103-316.1)	92,90	1001310450	FH20-SC30 DT (103-316.1 DT)	120,60
15-20	25	31-35	10013105	FH20-SC35 (103-317.1)	96,20	1001310550	FH20-SC35 DT (103-317.1 DT)	125,00
15-20	25	36-40	10013106	FH20-SC40 (103-318.1)	106,20	1001310650	FH20-SC40 DT (103-318.1 DT)	138,10
15-20	25	41-45	10013107	FH20-SC45 (103-319.1)	109,20	1001310750	FH20-SC45 DT (103-319.1 DT)	142,00
15-20	25	46-50	10013108	FH20-SC50 (103-320.1)	112,40	1001310850	FH20-SC50 DT (103-320.1 DT)	146,20



Elementos de fijación rápida
Elements de fixation rapide

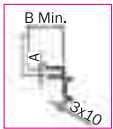
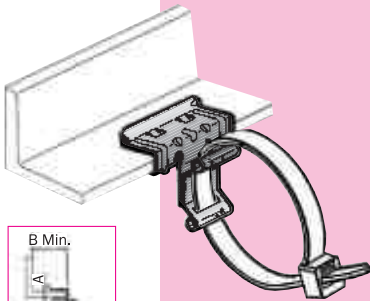
Quick attachment devices
Schnellen befestigungselemente



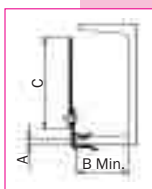
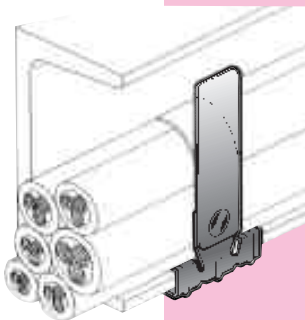
A mm.	B mm.	D \varnothing mm.	Kg.		Negro / Noire / Black / Schwarze		€/100
					Cód.	Ref.	
1,5 - 4	18	4	60	100	10013052	FH4-TR4 (100-220)	51,70
1,5 - 4	18	6	60	100	10013053	FH4-TR6 (100-221)	51,70
4 - 10	25	4	60	100	10013067	FH10-TR4 (101-220)	68,70
4 - 10	25	6	60	100	10013068	FH10-TR6 (101-221)	68,70
10 - 15	25	4	60	100	10013082	FH15-TR4 (102-220)	72,80
10 - 15	25	6	60	100	10013083	FH15-TR6 (102-221)	72,80
15 - 20	25	4	60	100	10013097	FH20-TR4 (103-220)	83,90
15 - 20	25	6	60	100	10013098	FH20-TR6 (103-221)	83,90

Acabado / Finition / Finishing / Endverarbeitung: **SINARD**

1,5 - 4	18	4	60	100	1001305250	FH4-TR4 DT (100-220 DT)	67,10
1,5 - 4	18	6	60	100	1001305350	FH4-TR6 DT (100-221 DT)	67,10
4 - 10	25	4	60	100	1001306750	FH10-TR4 DT (101-220 DT)	89,40
4 - 10	25	6	60	100	1001306850	FH10-TR6 DT (101-221 DT)	89,40
10 - 15	25	4	60	100	1001308250	FH15-TR4 DT (102-220 DT)	94,60
10 - 15	25	6	60	100	1001308350	FH15-TR6 DT (102-221 DT)	94,60
15 - 20	25	4	60	100	1001309750	FH20-TR4 DT (103-220 DT)	109,00
15 - 20	25	6	60	100	1001309850	FH20-TR6 DT (103-221 DT)	109,00



A mm.	B mm.	Kg.		Cód.	Ref.	€/100
Acabado / Finition / Finishing / Endverarbeitung: SINARD						
1,5 - 4	18	15	100	1001317150	FH4-BR DT (100-250 DT)	58,80
4 - 10	25	15	100	1001317250	FH10-BR DT (101-250 DT)	73,70
10 - 15	25	15	100	1001317350	FH15-BR DT (102-250 DT)	76,10
15 - 20	25	15	100	1001317450	FH20-BR DT (103-250 DT)	88,60



A mm.	B mm.	C mm.		Negro / Noire / Black / Schwarze		€/100
				Cód.	Ref.	
1,5 - 4	18	75	100	10013055	FH4-PD (100-231)	67,20
4 - 10	25	75	100	10013070	FH10-PD (101-231)	70,50
10 - 15	25	75	100	10013085	FH15-PD (102-231)	74,40
15 - 20	25	75	100	10013100	FH20-PD (103-231)	78,40

Acabado / Finition / Finishing / Endverarbeitung: **SINARD**

1,5 - 4	18	75	100	1001305550	FH4-PD DT (100-231 DT)	87,30
4 - 10	25	75	100	1001307050	FH10-PD DT (101-231 DT)	91,60
10 - 15	25	75	100	1001308550	FH15-PD DT (102-231 DT)	96,80
15 - 20	25	75	100	1001310050	FH20-PD DT (103-231 DT)	101,90

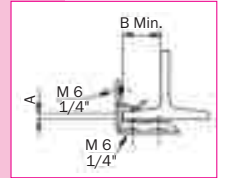
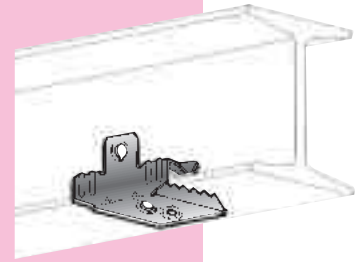


Elementos de fijación rápida
Elements de fixation rapide

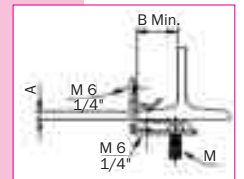
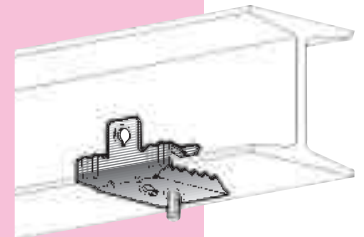
Quick attachment devices
Schnellen befestigungselemente



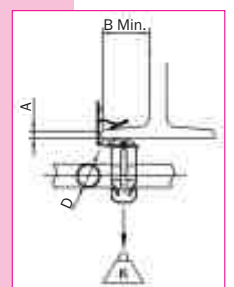
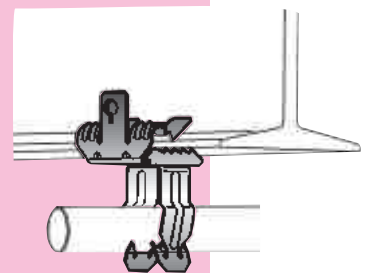
A mm.	B mm.	Kg.		Negro / Noire / Black / Schwarze Cód.	Ref.	€/100
3 - 7	25	45	100	10013005	FU7 (104)	61,50
7 - 13	35	45	100	10013007	FU12'5 (105)	67,50
14 - 20	35	45	100	10013009	FU20 (106)	80,40
Acabado / Finition / Finishing / Endverarbeitung: SINARD						
3 - 7	25	45	100	1001300550	FU7 DT (104 DT)	79,90
7 - 13	35	45	100	1001300750	FU12'5 DT (105 DT)	87,70
14 - 20	35	45	100	1001300950	FU20 DT (106 DT)	96,60



A mm.	B mm.	M	Kg.		Negro / Noire / Black / Schwarze Cód.	Ref.	€/100
3 - 7	25	M6x9	45-33	100	10013006	FU7 T-M6 (104-T M6)	81,60
7 - 13	35	M6x9	45-33	100	10013008	FU12'5 T-M6 (105-T M6)	89,40
14 - 20	35	M6x9	45-33	100	10013010	FU20 T-M6 (106-T M6)	103,30
3 - 7	25	M8x9	45-33	100	10013206	FU7 T-M8 (104-T M8)	85,70
7 - 13	35	M8x9	45-33	100	10013208	FU12'5 T-M8 (105-T M8)	93,80
14 - 20	35	M8x9	45-33	100	10013210	FU20 T-M8 (106-T M8)	103,30
Acabado / Finition / Finishing / Endverarbeitung: SINARD							
3 - 7	25	M6x9	45-33	100	1001300650	FU7 T-M6 DT (104-T M6 DT)	106,10
7 - 13	35	M6x9	45-33	100	1001300850	FU12'5 T-M6 DT (105-T M6 DT)	116,20
14 - 20	35	M6x9	45-33	100	1001301050	FU20 T-M6 DT (106-T M6 DT)	127,80
3 - 7	25	M8x9	45-33	100	1001320650	FU7 T-M8 DT (104-T M8 DT)	111,40
7 - 13	35	M8x9	45-33	100	1001320850	FU12'5 T-M8 DT (105-T M8 DT)	122,00
14 - 20	35	M8x9	45-33	100	1001321050	FU20 T-M8 DT (106-T M8 DT)	134,20



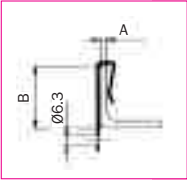
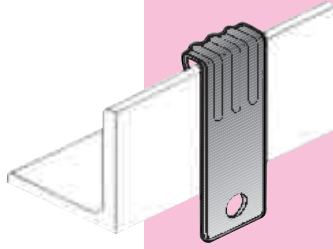
A mm.	B mm.	∅D mm.	Kg.		Cód.	Ref.	€/100
Acabado / Finition / Finishing / Endverarbeitung: SINARD							
3 - 7	25	18-22	11	100	1001355550	FU7-IC22 DT (104-280 DT)	134,30
3 - 7	25	22-30	11	100	1001355650	FU7-IC30 DT (104-281 DT)	138,50
3 - 7	25	30-35	11	100	1001355750	FU7-IC35 DT (104-282 DT)	143,40
7 - 13	35	18-22	11	50	1001355850	FU12'5-IC22 DT (105-280 DT)	142,80
7 - 13	35	22-30	11	50	1001355950	FU12'5-IC30 DT (105-281 DT)	147,10
7 - 13	35	30-35	11	50	1001356050	FU12'5-IC35 DT (105-282 DT)	152,00
14 - 20	35	18-22	11	50	1001356150	FU20-IC22 DT (106-280 DT)	152,60
14 - 20	35	22-30	11	50	1001356250	FU20-IC30 DT (106-281 DT)	156,70
14 - 20	35	30-35	11	50	1001356350	FU20-IC35 DT (106-282 DT)	161,50





Elementos de fijación rápida
Elements de fixation rapide

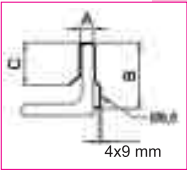
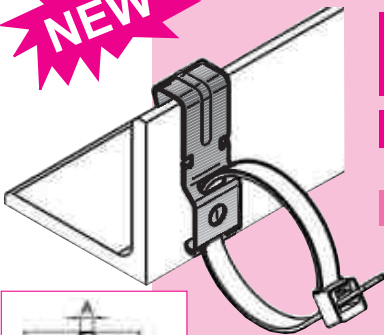
Quick attachment devices
Schnellen befestigungselemente



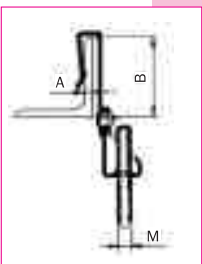
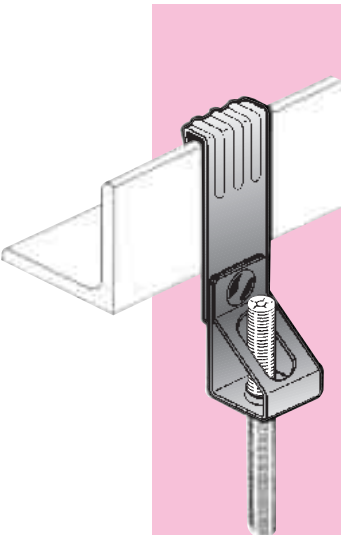
A mm.	B mm.	Kg.		Negro / Noire / Black / Schwarze		€/100
				Cód.	Ref.	
1,5 - 5	30	70	100	10013011	PHV5 (110)	24,70
5 - 7	30	70	100	10013012	PHV7 (111)	24,70
4 - 10	60	70	100	10013014	PHV10 (113)	54,50

Acabado / Finition / Finishing / Endverarbeitung: **SINARD**

1,5 - 5	30	70	100	1001301150	PHV5 DT (110 DT)	32,10
5 - 7	30	70	100	1001301250	PHV7 DT (111 DT)	32,10
4 - 10	60	70	100	1001301450	PHV10 DT (113 DT)	70,90



A mm.	B mm.	C mm.		Cód.	Ref.	€/100
Acabado / Finition / Finishing / Endverarbeitung: SINARD						
3 - 10	52	35	100	1001301550	PCM10 DT	39,40
10 - 18	52	35	100	1001301650	PCM18 DT	39,40



A mm.	B mm.	M	Kg.		Negro / Noire / Black / Schwarze		€/100
					Cód.	Ref.	
1,5 - 5	30	M6	70	100	10013109	PHV5-ICA6 (110-210)	74,30
1,5 - 5	30	M8	70	100	10013110	PHV5-ICA8 (110-211)	77,90
1,5 - 5	30	M10	70	100	10013111	PHV5-ICA10 (110-212)	77,90
5 - 7	30	M6	70	100	10013123	PHV7-ICA6 (111-210)	77,90
5 - 7	30	M8	70	100	10013124	PHV7-ICA8 (111-211)	77,90
5 - 7	30	M10	70	100	10013125	PHV7-ICA10 (111-212)	77,90
4 - 10	60	M6	70	100	10013151	PHV10-ICA6 (113-210)	105,90
4 - 10	60	M8	70	100	10013152	PHV10-ICA8 (113-211)	105,90
4 - 10	60	M10	70	100	10013153	PHV10-ICA10 (113-212)	105,90

Acabado / Finition / Finishing / Endverarbeitung: **SINARD**

1,5 - 5	30	M6	70	100	1001310950	PHV5-ICA6 DT (110-210 DT)	96,60
1,5 - 5	30	M8	70	100	1001311050	PHV5-ICA8 DT (110-211 DT)	101,20
1,5 - 5	30	M10	70	100	1001311150	PHV5-ICA10 DT (110-212 DT)	101,20
5 - 7	30	M6	70	100	1001312350	PHV7-ICA6 DT (111-210 DT)	101,20
5 - 7	30	M8	70	100	1001312450	PHV7-ICA8 DT (111-211 DT)	101,20
5 - 7	30	M10	70	100	1001312550	PHV7-ICA10 DT (111-212 DT)	101,20
4 - 10	60	M6	70	100	1001315150	PHV10-ICA6 DT (113-210 DT)	137,70
4 - 10	60	M8	70	100	1001315250	PHV10-ICA8 DT (113-211 DT)	137,70
4 - 10	60	M10	70	100	1001315350	PHV10-ICA10 DT (113-212 DT)	137,70

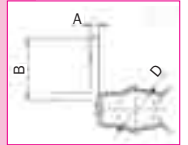
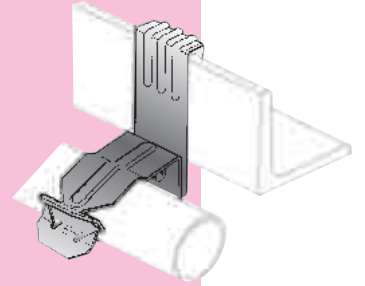


Elementos de fijación rápida
Elements de fixation rapide

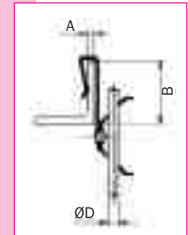
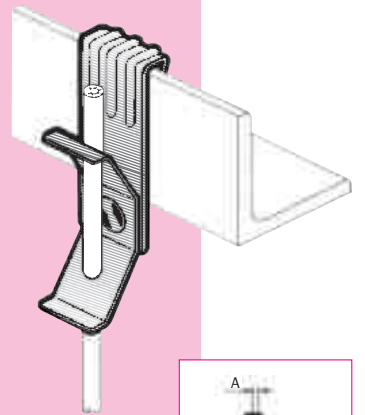
Quick attachment devices
Schnellen befestigungselemente



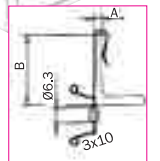
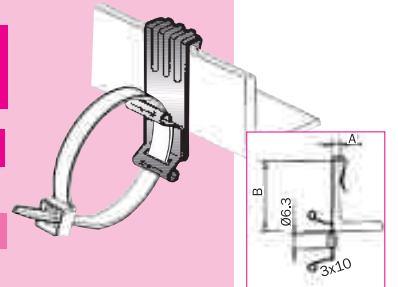
A mm.	B mm.	∅D mm.	Kg.		Cód.	Ref.	€/100
Acabado / Finition / Finishing / Endverarbeitung: SINARD							
1,5 - 5	30	18 - 22	7	100	1001356450	PHV5-IC22 DT (110-280 DT)	82,10
1,5 - 5	30	22 - 30	7	100	1001356550	PHV5-IC30 DT (110-281 DT)	86,40
1,5 - 5	30	30 - 35	7	100	1001356650	PHV5-IC35 DT (110-282 DT)	91,10
5 - 7	30	18 - 22	7	100	1001356750	PHV7-IC22 DT (111-280 DT)	82,10
5 - 7	30	22 - 30	7	100	1001356850	PHV7-IC30 DT (111-281 DT)	86,40
5 - 7	30	30 - 35	7	100	1001356950	PHV7-IC35 DT (111-282 DT)	91,10
4 - 10	60	18 - 22	7	100	1001357350	PHV10-IC22 DT (113-280 DT)	124,40
4 - 10	60	22 - 30	7	100	1001357450	PHV10-IC30 DT (113-281 DT)	128,50
4 - 10	60	30 - 35	7	100	1001357550	PHV10-IC35 DT (113-282 DT)	133,60



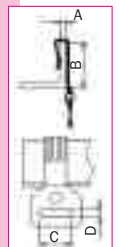
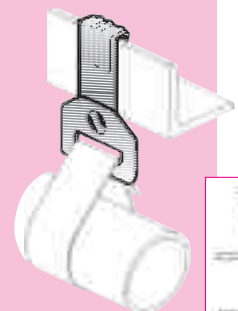
A mm.	B mm.	∅D mm.	Kg.		Negro / Noire / Black / Schwarze		€/100
					Cód.	Ref.	
1,5 - 5	30	4	60	100	10013112	PHV5-TR4 (110-220)	56,90
1,5 - 5	30	6	60	100	10013113	PHV5-TR6 (110-221)	56,90
5 - 7	30	4	60	100	10013126	PHV7-TR4 (111-220)	56,90
5 - 7	30	6	60	100	10013127	PHV7-TR6 (111-221)	56,90
4 - 10	60	4	60	100	10013154	PHV10-TR4 (113-220)	86,40
4 - 10	60	6	60	100	10013155	PHV10-TR6 (113-221)	86,40
Acabado / Finition / Finishing / Endverarbeitung: SINARD							
1,5 - 5	30	4	60	100	1001311250	PHV5-TR4 DT (110-220 DT)	74,00
1,5 - 5	30	6	60	100	1001311350	PHV5-TR6 DT (110-221 DT)	74,00
5 - 7	30	4	60	100	1001312650	PHV7-TR4 DT (111-220 DT)	74,00
5 - 7	30	6	60	100	1001312750	PHV7-TR6 DT (111-221 DT)	74,00
4 - 10	60	4	60	100	1001315450	PHV10-TR4 DT (113-220 DT)	112,40
4 - 10	60	6	60	100	1001315550	PHV10-TR6 DT (113-221 DT)	112,40



A mm.	B mm.	Kg.		Cód.	Ref.	€/100
Acabado / Finition / Finishing / Endverarbeitung: SINARD						
1,5 - 5	30	15	100	1001317550	PHV5- BR DT (110-250 DT)	58,80
5 - 7	30	15	100	1001317650	PHV7- BR DT (111-250 DT)	73,70
4 - 10	60	15	100	1001317850	PH10-BR DT (113-250 DT)	88,60



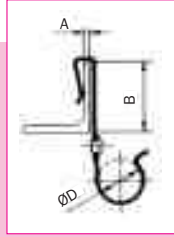
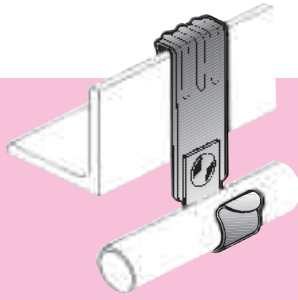
A mm.	B mm.	CxD	Kg.		Negro / Noire / Black / Schwarze		€/100
					Cód.	Ref.	
1,5 - 5	30	28 x 6,5	45	100	10013114	PHV5-SH (110-230)	46,20
5 - 7	30	28 x 6,5	45	100	10013128	PHV7-SH (111-230)	46,20
4 - 10	60	28 x 6,5	45	100	10013156	PHV10-SH (113-230)	77,60
Acabado / Finition / Finishing / Endverarbeitung: SINARD							
1,5 - 5	30	28 x 6,5	45	100	1001311450	PHV5-SH DT (110-230 DT)	60,10
5 - 7	30	28 x 6,5	45	100	1001312850	PHV7-SH DT (111-230 DT)	60,10
4 - 10	60	28 x 6,5	45	100	1001315650	PHV10-SH DT (113-230 DT)	98,20





Elementos de fijación rápida
Elements de fixation rapide

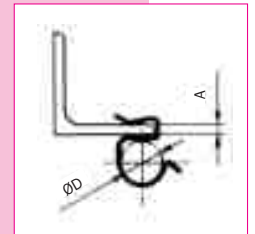
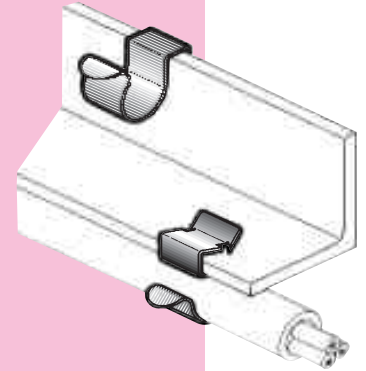
Quick attachment devices
Schnellen befestigungselemente



A mm.	B mm.	ØD mm.	Negro / Noire / Black / Schwarze			Acabado / Finition / Finishing / Endverarbeitung: SINARD		
			Cód.	Ref.	€/100	Cód.	Ref.	€/100
1,5-5	30	12-14	10013115	PHV5-SC14 (110-310.1)	52,10	1001311550	PHV5-SC14 DT (110-310.1 DT)	65,30
1,5-5	30	15-18	10013116	PHV5-SC18 (110-312.1)	55,70	1001311650	PHV5-SC18 DT (110-312.1 DT)	72,50
1,5-5	30	19-24	10013117	PHV5-SC24 (110-314.1)	59,20	1001311750	PHV5-SC24 DT (110-314.1 DT)	76,50
1,5-5	30	25-30	10013118	PHV5-SC30 (110-316.1)	61,30	1001311850	PHV5-SC30 DT (110-316.1 DT)	77,50
1,5-5	30	31-35	10013119	PHV5-SC35 (110-317.1)	64,30	1001311950	PHV5-SC35 DT (110-317.1 DT)	83,50
1,5-5	30	36-40	10013120	PHV5-SC40 (110-318.1)	72,60	1001312050	PHV5-SC40 DT (110-318.1 DT)	92,10
1,5-5	30	41-45	10013121	PHV5-SC45 (110-319.1)	75,20	1001312150	PHV5-SC45 DT (110-319.1 DT)	97,70
1,5-5	30	46-50	10013122	PHV5-SC50 (110-320.1)	77,70	1001312250	PHV5-SC50 DT (110-320.1 DT)	101,00
5-7	30	12-14	10013129	PHV7-SC14 (111-310.1)	65,30	1001312950	PHV7-SC14 DT (111-310.1 DT)	85,00
5-7	30	15-18	10013130	PHV7-SC18 (111-312.1)	68,70	1001313050	PHV7-SC18 DT (111-312.1 DT)	89,30
5-7	30	19-24	10013131	PHV7-SC24 (111-314.1)	72,00	1001313150	PHV7-SC24 DT (111-314.1 DT)	93,60
5-7	30	25-30	10013132	PHV7-SC30 (111-316.1)	74,30	1001313250	PHV7-SC30 DT (111-316.1 DT)	96,50
5-7	30	31-35	10013133	PHV7-SC35 (111-317.1)	76,90	1001313350	PHV7-SC35 DT (111-317.1 DT)	99,80
5-7	30	36-40	10013134	PHV7-SC40 (111-318.1)	84,90	1001313450	PHV7-SC40 DT (111-318.1 DT)	110,20
5-7	30	41-45	10013135	PHV7-SC45 (111-319.1)	87,20	1001313550	PHV7-SC45 DT (111-319.1 DT)	113,40
5-7	30	46-50	10013136	PHV7-SC50 (111-320.1)	89,60	1001313650	PHV7-SC50 DT (111-320.1 DT)	116,70
4-10	60	12-14	10013157	PHV10-SC14 (113-310.1)	85,70	1001315750	PHV10-SC14 DT (113-310.1 DT)	105,70
4-10	60	15-18	10013158	PHV10-SC18 (113-312.1)	89,40	1001315850	PHV10-SC18 DT (113-312.1 DT)	116,10
4-10	60	19-24	10013159	PHV10-SC24 (113-314.1)	92,60	1001315950	PHV10-SC24 DT (113-314.1 DT)	120,30
4-10	60	25-30	10013160	PHV10-SC30 (113-316.1)	95,00	1001316050	PHV10-SC30 DT (113-316.1 DT)	123,50
4-10	60	31-35	10013161	PHV10-SC35 (113-317.1)	97,80	1001316150	PHV10-SC35 DT (113-317.1 DT)	127,10
4-10	60	36-40	10013162	PHV10-SC40 (113-318.1)	106,20	1001316250	PHV10-SC40 DT (113-318.1 DT)	138,10
4-10	60	41-45	10013163	PHV10-SC45 (113-319.1)	108,70	1001316350	PHV10-SC45 DT (113-319.1 DT)	143,30
4-10	60	46-50	10013164	PHV10-SC50 (113-320.1)	111,30	1001316450	PHV10-SC50 DT (113-320.1 DT)	144,70



∅D mm.	A mm.		Negro / Noire / Black / Schwarze		
			Cód.	Ref.	€/100
6 - 7	1 - 4	100	10013690	CD 4-7 (304)	10,00
6 - 7	4 - 7,5	100	10013691	CD 7'5-7 (305)	10,00
6 - 7	7,5 - 12	100	10013692	CD 12-7 (305.2)	10,00
8 - 9	1 - 4	100	10013027	CD 4-9 (306)	10,80
8 - 9	4 - 7,5	100	10013028	CD 7'5-9 (307)	10,80
8 - 9	7,5 - 12	100	10013258	CD 12-9 (307.2)	10,80
10 - 11	1 - 4	100	10013029	CD 4-11 (308)	12,60
10 - 11	4 - 7,5	100	10013030	CD 7'5-11 (309)	12,60
10 - 11	7,5 - 12	100	10013259	CD 12-11 (309.2)	12,60
12 - 14	1 - 4	100	10013031	CD 4-14 (310)	15,30
12 - 14	4 - 7,5	100	10013033	CD 7'5-14 (311)	15,30
12 - 14	7,5 - 12	100	10013260	CD 12-14 (311.2)	15,30
15 - 18	1 - 4	100	10013034	CD 4-18 (312)	18,30
15 - 18	4 - 7,5	100	10013036	CD 7'5-18 (313)	18,30
15 - 18	7,5 - 12	100	10013261	CD 12-18 (313.2)	18,30
19 - 24	1 - 4	100	10013037	CD 4-24 (314)	21,10
19 - 24	4 - 7,5	100	10013039	CD 7'5-24 (315)	21,10
19 - 24	7,5 - 12	100	10013262	CD 12-24 (315.2)	21,10
25 - 30	1 - 4	100	10013040	CD 4-30 (316)	24,80
25 - 30	4 - 7,5	100	10013042	CD 7'5-30 (317)	24,80
25 - 30	7,5 - 12	100	10013263	CD 12-30 (317.2)	24,80

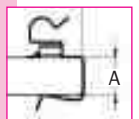
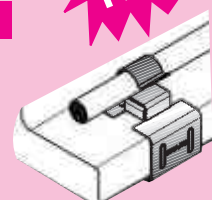


Acabado / Finition / Finishing / Endverarbeitung: SINARD

6 - 7	1 - 4	100	1001369050	CD 4-7 DT (304 DT)	12,70
6 - 7	4 - 7,5	100	1001369150	CD 7'5-7 DT (305 DT)	12,70
6 - 7	7,5 - 12	100	1001369250	CD 12-7 DT (305.2 DT)	12,70
8 - 9	1 - 4	100	1001302750	CD 4-9 DT (306 DT)	14,00
8 - 9	4 - 7,5	100	1001302850	CD 7'5-9 DT (307 DT)	14,00
8 - 9	7,5 - 12	100	1001325850	CD 12-9 DT (307.2 DT)	14,00
10 - 11	1 - 4	100	1001302950	CD 4-11 DT (308 DT)	16,50
10 - 11	4 - 7,5	100	1001303050	CD 7'5-11 DT (309 DT)	16,50
10 - 11	7,5 - 12	100	1001325950	CD 12-11 DT (309.2 DT)	16,50
12 - 14	1 - 4	100	1001303150	CD 4-14 DT (310 DT)	19,80
12 - 14	4 - 7,5	100	1001303350	CD 7'5-14 DT (311 DT)	19,80
12 - 14	7,5 - 12	100	1001326050	CD 12-14 DT (311.2 DT)	19,80
15 - 18	1 - 4	100	1001303450	CD 4-18 DT (312 DT)	23,70
15 - 18	4 - 7,5	100	1001303650	CD 7'5-18 DT (313 DT)	23,70
15 - 18	7,5 - 12	100	1001326150	CD 12-18 DT (313.2 DT)	23,70
19 - 24	1 - 4	100	1001303750	CD 4-24 DT (314 DT)	27,30
19 - 24	4 - 7,5	100	1001303950	CD 7'5-24 DT (315 DT)	27,30
19 - 24	7,5 - 12	100	1001326250	CD 12-24 DT (315.2 DT)	27,30
25 - 30	1 - 4	100	1001304050	CD 4-30 DT (316 DT)	32,40
25 - 30	4 - 7,5	100	1001304250	CD 7'5-30 DT (317 DT)	32,40
25 - 30	7,5 - 12	100	1001326350	CD 12-30 DT (317.2 DT)	32,40

Adaptador / Adaptateur / Adapter / Adapter

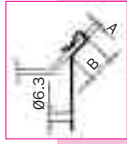
-	12 - 15	100	1001369850	325 DT	40,00
-	16 - 20	100	1001369950	326 DT	40,00





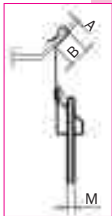
Elementos de fijación rápida
Elements de fixation rapide

Quick attachment devices
Schnellen befestigungselemente



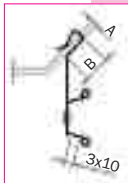
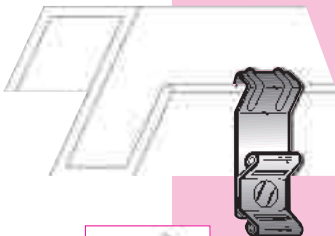
A mm.	B mm.	Kg.		Negro / Noire / Black / Schwarze		€/100
				Cód.	Ref.	
1,5 - 5	20	45	100	10013170	PHZ (120)	23,00

Acabado / Finition / Finishing / Endverarbeitung: SINARD						
1,5 - 5	20	45	100	1001317050	PHZ DT (120 DT)	30,00



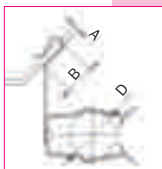
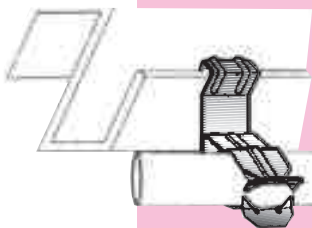
A mm.	B mm.	M	Kg.		Negro / Noire / Black / Schwarze		€/100
				Cód.	Ref.		
1,5 - 5	20	M6	45	100	10013850	PHZ-ICA6 (120-210)	92,20
1,5 - 5	20	M8	45	100	10013851	PHZ-ICA8 (120-211)	92,20
1,5 - 5	20	M10	45	100	10013852	PHZ-ICA10 (120-212)	92,20

Acabado / Finition / Finishing / Endverarbeitung: SINARD							
1,5 - 5	20	M6	45	100	1001385050	PHZ-ICA6 DT (120-210 DT)	120,90
1,5 - 5	20	M8	45	100	1001385150	PHZ-ICA8 DT (120-211 DT)	120,90
1,5 - 5	20	M10	45	100	1001385250	PHZ-ICA10 DT (120-212 DT)	120,90



A mm.	B mm.	Kg.		Cód.	Ref.	€/100
1,5 - 5	20	15	100	1001317950	PHZ-BR DT (120-250 DT)	58,80

Acabado / Finition / Finishing / Endverarbeitung: SINARD						
-----------------------------------------------------------------	--	--	--	--	--	--



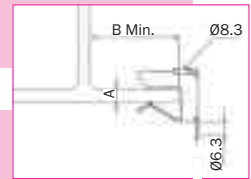
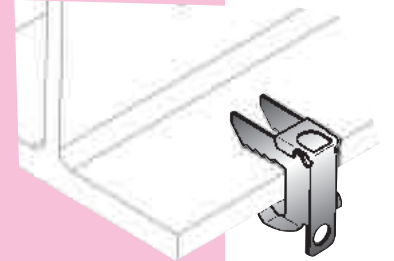
A mm.	B mm.	∅D mm.	Kg.		Cód.	Ref.	€/100
1,5-5	20	18-22	7	100	1001357650	PHZ-IC22DT (120-280 DT)	79,90
1,5-5	20	22-30	7	100	1001357750	PHZ-IC30DT (120-281 DT)	84,50
1,5-5	20	30-35	7	100	1001357850	PHZ-IC35DT (120-282 DT)	89,00

Acabado / Finition / Finishing / Endverarbeitung: SINARD						
-----------------------------------------------------------------	--	--	--	--	--	--

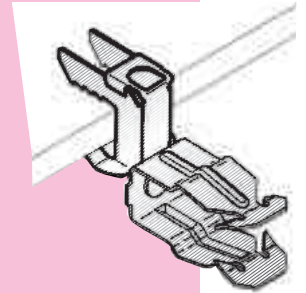


**FIJACIÓN UNIVERSAL - FIXATION UNIVERSELLE
UNIVERSAL FIXING - UNIVERSELLE BEFESTIGUNG**

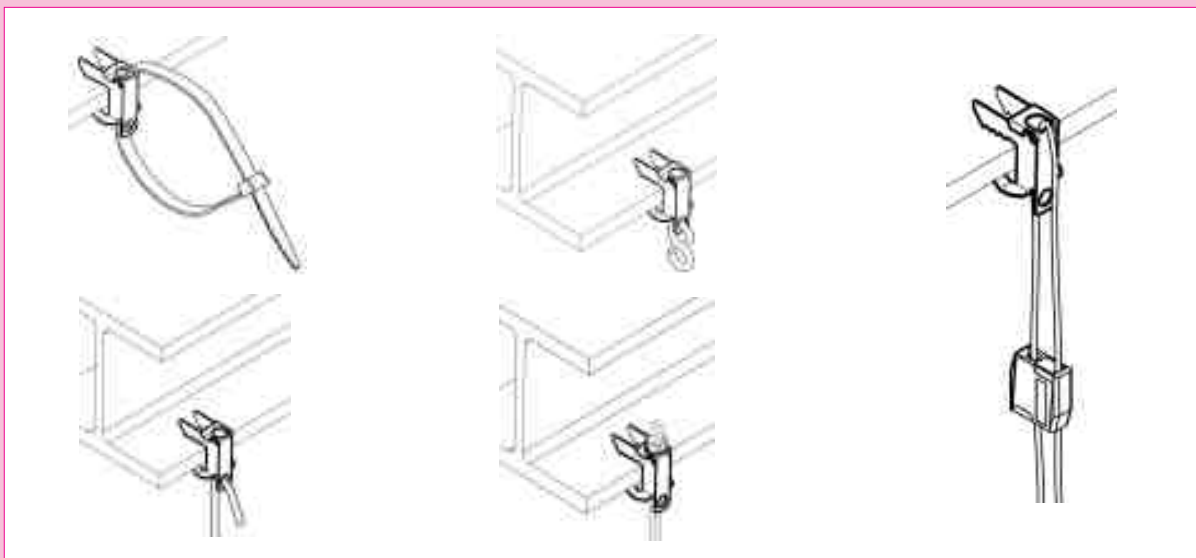
A mm.	B mm.	Kg.		Cód.	Ref.	€/100
Acabado / Finition / Finishing / Endverarbeitung: SINARD						
3 - 8	25	120	100	1001380050	UF8 DT (160 DT)	47,30
8 - 14	25	120	100	1001380150	UF14 DT (161 DT)	57,30
14 - 20	25	120	100	1001380250	UF20 DT (162 DT)	70,90



A mm.	B mm.	∅ D mm.		Cód.	Ref.	€/100
Acabado / Finition / Finishing / Endverarbeitung: SINARD						
3 - 8	25	18 - 22	100	1001380350	UF8-ICC22 DT (160-280 DT)	97,90
3 - 8	25	22 - 30	100	1001380450	UF8-ICC30 DT (160-281 DT)	103,50
3 - 8	25	30 - 35	100	1001380550	UF8-ICC35 DT (160-282 DT)	109,10
8 - 14	25	18 - 22	100	1001380650	UF14-ICC22 DT (161-280 DT)	108,00
8 - 14	25	22 - 30	100	1001380750	UF14-ICC30 DT (161-281 DT)	113,60
8 - 14	25	30 - 35	100	1001380850	UF14-ICC35 DT (161-282 DT)	128,80
14 - 20	25	18 - 22	50	1001380950	UF20-ICC22 DT (162-280 DT)	121,30
14 - 20	25	22 - 30	50	1001381050	UF20-ICC30 DT (162-281 DT)	128,20
14 - 20	25	30 - 35	50	1001381150	UF20-ICC35 DT (162-282 DT)	134,90



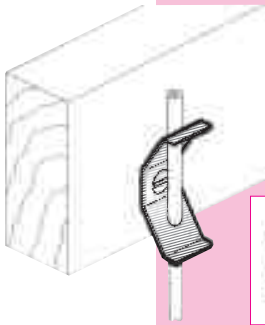
**EJEMPLOS DE APLICACIÓN - EXEMPLES DE MONTAGE
EXEMPLES OF INSTALLATION - ANWENDUNG BEISPIEL**



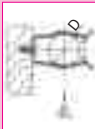
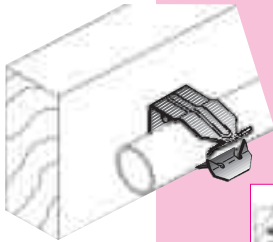


Elementos de fijación rápida
Elements de fixation rapide

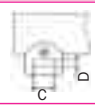
Quick attachment devices
Schnellen befestigungselemente



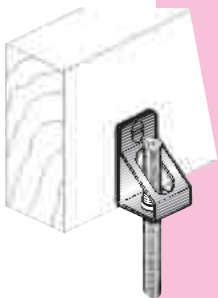
ØD mm.	Kg.		Negro / Noire / Black / Schwarze		€/100
			Cód.	Ref.	
4	60	100	10013023	TR4 (220)	23,50
6	60	100	10013024	TR6 (221)	23,50
Acabado / Finition / Finishing / Endverarbeitung: SINARD					
4	60	100	1001302350	TR4 DT (220 DT)	30,50
6	60	100	1001302450	TR6 DT (221 DT)	30,50



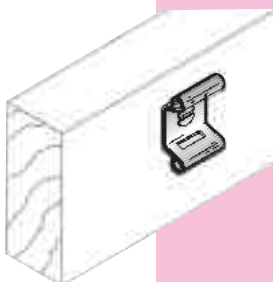
ØD mm.	Kg.		Cód.	Ref.	€/100
Acabado / Finition / Finishing / Endverarbeitung: SINARD					
18 - 22	7	100	1001354050	IC22 DT (280 DT)	35,00
22 - 30	7	100	1001354150	IC30 DT (281 DT)	39,10
30 - 35	7	100	1001354250	IC35 DT (282 DT)	44,00



CxD	Kg.		Negro / Noire / Black / Schwarze		€/100
			Cód.	Ref.	
28 x 6,5	45	100	10013025	SH (230)	16,40
Acabado / Finition / Finishing / Endverarbeitung: SINARD					
28 x 6,5	45	100	1001302550	SH DT (230 DT)	21,40




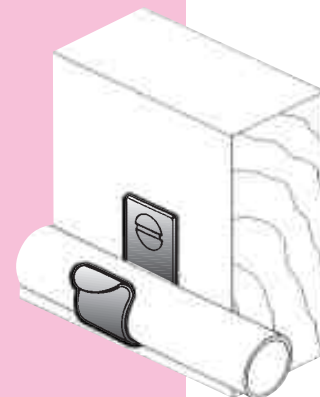
M	Kg.		Negro / Noire / Black / Schwarze		€/100
			Cód.	Ref.	
M6	70	100	10013020	ICA6 (210)	42,90
M8	70	100	10013021	ICA8 (211)	42,90
M10	70	100	10013022	ICA10 (212)	42,90
Acabado / Finition / Finishing / Endverarbeitung: SINARD					
M6	70	100	1001302050	ICA6 DT (210 DT)	55,90
M8	70	100	1001302150	ICA8 DT (211 DT)	55,90
M10	70	100	1001302250	ICA10 DT (212 DT)	55,90



C x D	Kg.		Cód.	Ref.	€/100
Acabado / Finition / Finishing / Endverarbeitung: SINARD					
3 x 10	15	100	1001301850	BR DT (250 DT)	21,70

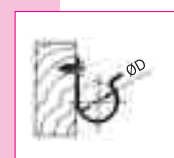


∅D mm.		Negro / Noire / Black / Schwarze		
		Cód.	Ref.	€/100
12 - 14	100	10013032	SC 14 (310.1)	17,60
15 - 18	100	10013035	SC 18 (312.1)	21,20
19 - 24	100	10013038	SC 24 (314.1)	24,30
25 - 30	100	10013041	SC 30 (316.1)	26,60
31 - 35	100	10013043	SC 35 (317.1)	29,20
36 - 40	100	10013044	SC 40 (318.1)	37,20
41 - 45	100	10013045	SC 45 (319.1)	39,70
46 - 50	100	10013046	SC 50 (320.1)	42,00



Acabado / Finition / Finishing / Endverarbeitung: SINARD

12 - 14	100	1001303250	SC 14 DT (310.1 DT)	22,90
15 - 18	100	1001303550	SC 18 DT (312.1 DT)	27,40
19 - 24	100	1001303850	SC 24 DT (314.1 DT)	31,60
25 - 30	100	1001304150	SC 30 DT (316.1 DT)	34,50
31 - 35	100	1001304350	SC 35 DT (317.1 DT)	37,90
36 - 40	100	1001304450	SC 40 DT (318.1 DT)	48,30
41 - 45	100	1001304550	SC 45 DT (319.1 DT)	51,50
46 - 50	100	1001304650	SC 50 DT (320.1 DT)	54,70



UN MUNDO DE COMBINACIONES A SU ALCANCE

Este catálogo presenta una muestra de las múltiples combinaciones posibles y más usuales de los clips de fijación. Si no encuentra respuesta a sus problemas de fijación, contáctenos y le ayudaremos a encontrar la solución más adecuada.

UN MONDE DE COMBINAISONS À VOTRE PORTÉE

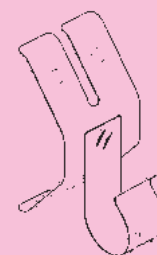
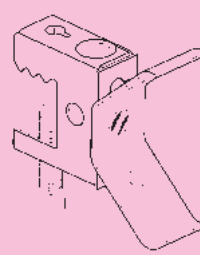
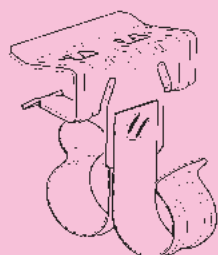
Ce catalogue présente un échantillon des multiples combinaisons possibles des clips de fixation. Si vous ne trouvez pas de réponse à vos problèmes de fixation, contactez-nous et nous vous aiderons à trouver la solution plus adéquate.

A WORLD OF COMBINATIONS WITHIN YOUR REACH

This catalogue presents a sample of the many possible combinations of the fixing clips. If you do not find a reply to your fixing problems, contact us and we will help to find the right solution.

EINE VIELFALT AN KOMBINATIONEN ZU IHRER VERFÜGUNG

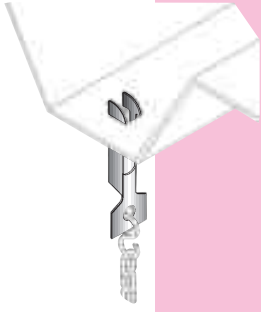
Dieser Katalog ist nur eine Auswahl der zahlreichen Kombinationsmöglichkeiten unserer Fixierklammern. Wenn Sie keine Lösung für Ihre Befestigungswünsche hier finden, rufen Sie uns an, und wir werden Ihnen gerne helfen die passende Lösung zu finden.





Elementos de fijación rápida
Elements de fixation rapide

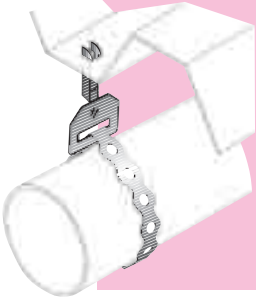
Quick attachment devices
Schnellen befestigungselemente



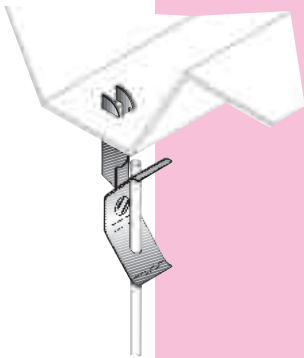
B mm.	∅ D	Kg. ⁽¹⁾		Cód.	Ref.	€/100
Acabado / Finition / Finishing / Endverarbeitung: SINARD						
0'8 - 3	7 - 8	-	100	1001368050	RD DT (150 DT)	24,60



B mm.	∅ D	M	Kg. ⁽¹⁾		Cód.	Ref.	€/100
Acabado / Finition / Finishing / Endverarbeitung: SINARD							
0'8 - 3	7 - 8	M6	-	100	1001368150	RD-ICA6 DT (150-210 DT)	75,50
0'8 - 3	7 - 8	M8	-	100	1001368250	RD-ICA8 DT (150-211 DT)	75,50
0'8 - 3	7 - 8	M10	-	100	1001368350	RD-ICA10 DT (150-212 DT)	75,50

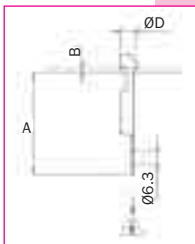


B mm.	∅ D	C x D	Kg. ⁽¹⁾		Cód.	Ref.	€/100
Acabado / Finition / Finishing / Endverarbeitung: SINARD							
0'8 - 3	7 - 8	28 x 6'5	-	100	1001368450	RD-SH DT (150-230 DT)	45,70

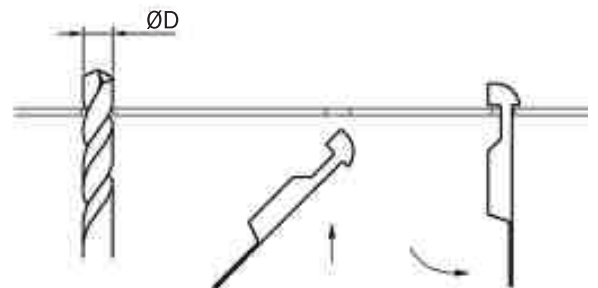


B mm.	∅ D	∅ varilla / rod	Kg. ⁽¹⁾		Cód.	Ref.	€/100
Acabado / Finition / Finishing / Endverarbeitung: SINARD							
0'8 - 3	7 - 8	4	-	100	1001368550	RD-TR4 DT (150-220 DT)	56,20
0'8 - 3	7 - 8	6	-	100	1001368650	RD-TR6 DT (150-221 DT)	56,20

(1) Cargas según el espesor de la base de anclaje.
(1) Loads according to the thickness of the sheet.



**MONTAJE - MONTAGE -
INSTALLATION - MONTAGE:**

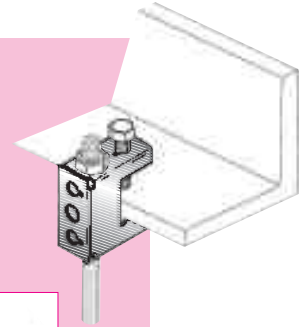
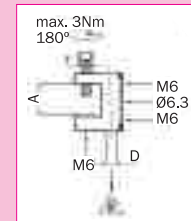




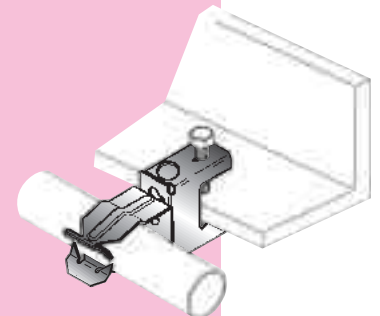
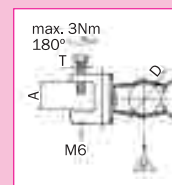
MORDAZAS - CRAMPONS - BEAM CLAMP - TRÄGERKLAMMER

- Elija la mordaza más adecuada a sus necesidades de instalación:
- Choisissez la crampon le plus adéquat à vos besoins d'installation:
- Choose the best clamp for your installation requirements:
- Wählen Sie die Trägerklammer, die sich am Besten an thren Installationsbedarf anpassen:

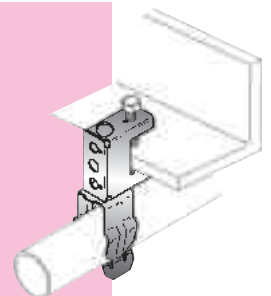
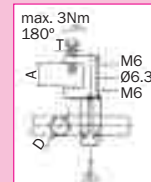
D	T	A mm.	Kg.		Cód.	Ref.	€/100
Acabado / Finition / Finishing / Endverarbeitung: SINARD							
10'7	M6	<16	45	100	1001365050	SB17 11 DT (130 DT)	115,40

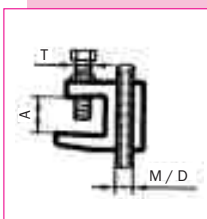
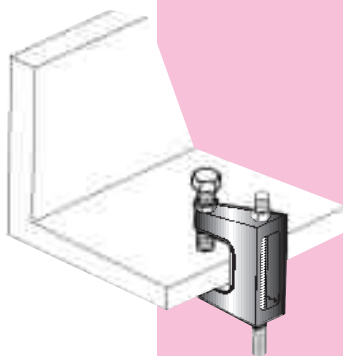


T	A mm	∅D mm.	Kg.		Cód.	Ref.	€/100
Acabado / Finition / Finishing / Endverarbeitung: SINARD							
M6	<16	18 - 22	7	50	1001357950	SB17-IC22 H DT (131-280 H DT)	144,90
M6	<16	22 - 30	7	50	1001358050	SB17-IC30 H DT (131-281 H DT)	148,70
M6	<16	30 - 35	7	50	1001358150	SB17-IC35 H DT (131-282 H DT)	153,20



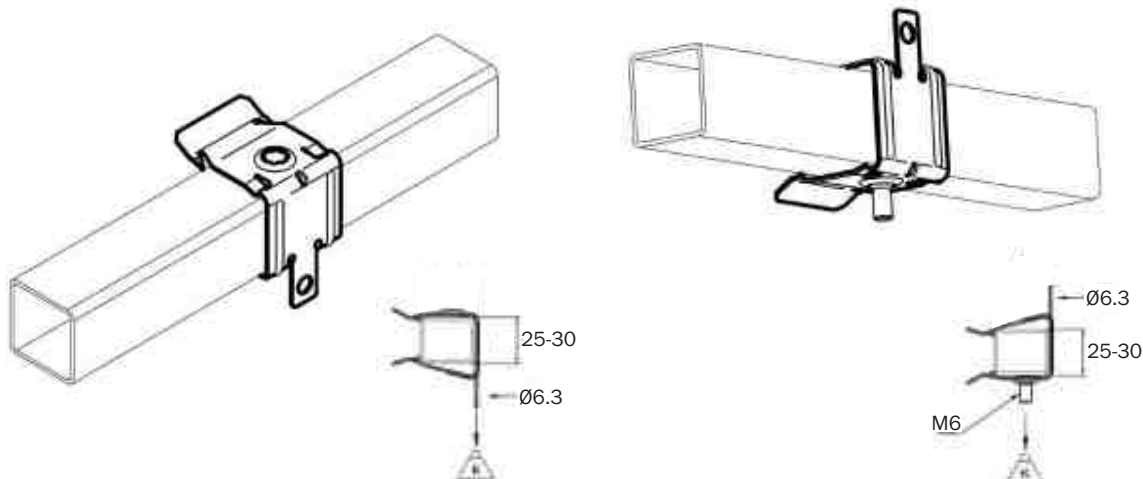
T	A mm	∅D mm.	Kg.		Cód.	Ref.	€/100
Acabado / Finition / Finishing / Endverarbeitung: SINARD							
M6	<16	18 - 22	7	50	1001358250	SB17-IC22 V DT (131-280 V DT)	144,90
M6	<16	22 - 30	7	50	1001358350	SB17-IC30 V DT (131-281 V DT)	148,70
M6	<16	30 - 35	7	50	1001358450	SB17-IC35 V DT (131-282 V DT)	153,20





M / D	T	A mm.	Kg.		Cód.	Ref.	€/100
M6	M8	<18	120	50	10013600	M6 T8	311,90
D7	M8	<18	120	50	10013601	D7 T8	311,90
M6	M10	<23	250	50	10013602	M6 T10	339,80
D7	M10	<23	250	50	10013603	D7 T10	339,80
M8	M8	<18	120	50	10013180	M8 T8	311,90
D9	M8	<18	120	50	10013181	D9 T8	311,90
M8	M10	<23	250	50	10013182	M8 T10	339,80
D9	M10	<23	250	50	10013183	D9 T10	339,80
M10	M10	<20	250	50	10013184	M10 T10	339,80
D11	M10	<20	250	50	10013185	D11 T10	339,80
M12	M10	<26	350	50	10013186	M12 T10	456,80
D13	M10	<26	350	50	10013187	D13 T10	456,80
M16	M12	<28	550	50	10013604	M16 T12	913,50
D17	M12	<28	550	50	10013605	D17 T12	913,50

Fijación para estructuras metálicas de mayor espesor
Fixation pour structures métalliques de majeure épaisseur
Fixation for metal structures of bigger thickness
Befestigungselemente für Metallstrukturen mit grösserem Durchmesser



Disponible próximamente - Disponible prochainement
Coming soon - Erhältlich nächstens



SUSPENSIÓN CON CABLE - SUSPENSION AVEC CÂBLE
SUSPENSION WITH CABLE - FEDERUNGS MIT KABEL

Ø Cable mm.	Longitud cable m.	Kg.	Contenido bolsa	Cód.	Ref.	€/bolsa ⁽¹⁾
1'5	2	50	10	10013701	MX2 L - 1'5 - 2	55,00
1'5	3	50	10	10013702	MX2 L - 1'5 - 3	58,00
1'5	5	50	10	10013703	MX2 L - 1'5 - 5	63,00
2'5	2	100	10	10013704	MX2 L - 2'5 - 2	67,00
2'5	3	100	10	10013705	MX2 L - 2'5 - 3	71,00
2'5	5	100	10	10013706	MX2 L - 2'5 - 5	78,00



Ø Cable mm.	Longitud cable m.	Kg.	Contenido bolsa	Cód.	Ref.	€/bolsa ⁽¹⁾
1'5	2	50	10	10013707	MX2 V - 1'5 - 2	64,00
1'5	3	50	10	10013708	MX2 V - 1'5 - 3	66,00
1'5	5	50	10	10013709	MX2 V - 1'5 - 5	70,00
2'5	2	100	10	10013710	MX2 V - 2'5 - 2	80,00
2'5	3	100	10	10013711	MX2 V - 2'5 - 3	83,00
2'5	5	100	10	10013712	MX2 V - 2'5 - 5	91,00



Ø Cable mm.	Longitud cable m.	M	Kg.	Contenido bolsa	Cód.	Ref.	€/bolsa ⁽¹⁾
1'5	2	M6	50	10	10013713	MX2 R - 1'5 - 2	76,00
1'5	3	M6	50	10	10013714	MX2 R - 1'5 - 3	79,00
1'5	5	M6	50	10	10013715	MX2 R - 1'5 - 5	84,00
2'5	2	M6	100	10	10013716	MX2 R - 2'5 - 2	90,00
2'5	3	M6	100	10	10013717	MX2 R - 2'5 - 3	95,00
2'5	5	M6	100	10	10013718	MX2 R - 2'5 - 5	102,00

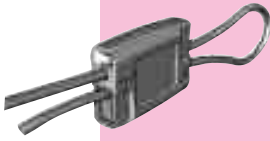


⁽¹⁾ Cada bolsa contiene 10 conjuntos (alambres + tensores) y una llave destensadora.

Cargas especificadas en carga vertical, con un coeficiente de seguridad 3:1, con los cables suministrados en el conjunto. Otras longitudes de cable, disponibles bajo demanda.

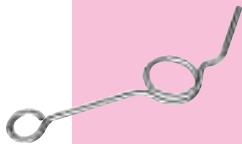


Tensor



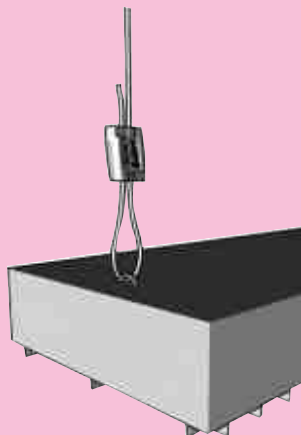
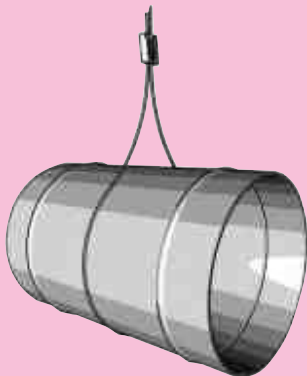
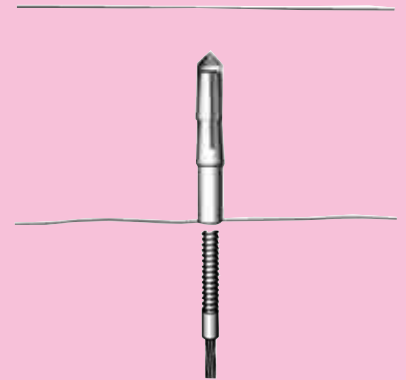
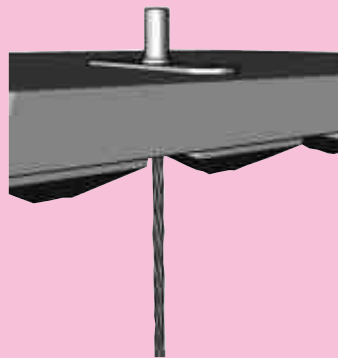
∅Cable mm.	Longitud cable m.	Kg.		Cód.	Ref.	€/100
-	-	-	100	10013719	MX2 T	202,00

Llave destensadora



∅Cable mm.	Longitud cable m.	Kg.		Cód.	Ref.	€/100
-	-	-	10	10013720	MX2 LL	110,00


MONTAJE - MONTAGE - INSTALLATION - MONTAGE:

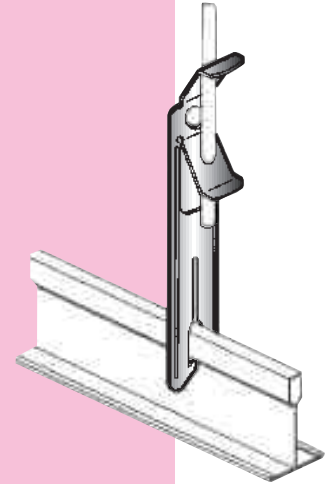




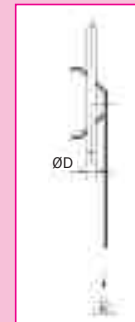
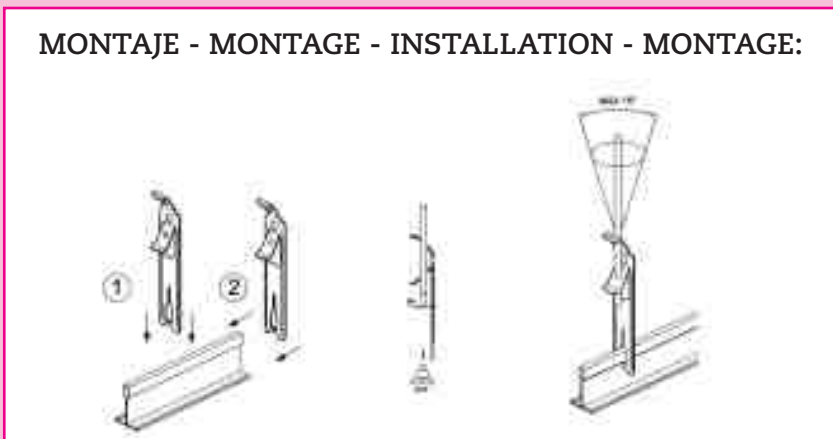
FIJACIONES PARA PERFILES DE FALSOS TECHOS
FIXATION POUR FAUX-PLAFONDS - FIXATION FOR CEILINGS
FIXIERUNG FÜR ZWISCHENDECKENPROFILE

CARGAS LIGERAS - CHARGES LÈGERES - LIGHT DUTY - LEICHTE LASTEN


∅D mm.	Kg.		Cód.	Ref.	€/100
Acabado / Finition / Finishing / Endverarbeitung: SINARD					
4	15	100	1001323050	260 DT	42,00

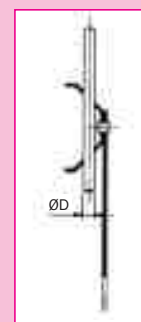
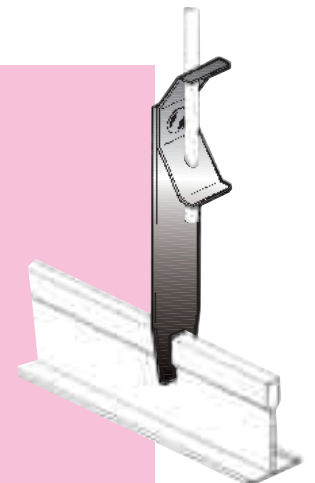


MONTAJE - MONTAGE - INSTALLATION - MONTAGE:



CARGAS PESADAS - CHARGES LOURDES - HEAVY DUTY - SCHWERE LASTEN

∅D mm.	Kg.		Negro / Noire / Black / Schwarze Cód.	Ref.	€/100
4	45	100	10013256	1122-220	81,70
6	45	100	10013257	1122-221	81,70
Acabado / Finition / Finishing / Endverarbeitung: SINARD					
4	45	100	1001325650	1122-220 DT	108,30
6	45	100	1001325750	1122-221 DT	108,30



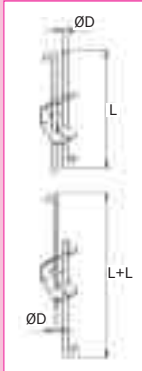
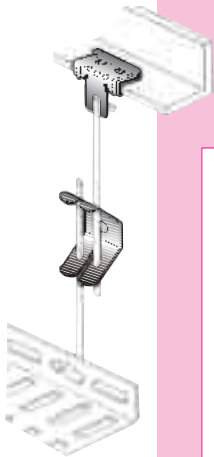


Elementos de fijación rápida
Elements de fixation rapide

Quick attachment devices
Schnellen befestigungselemente

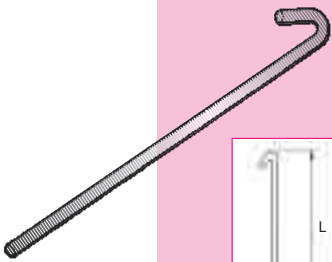


ØD mm.	Kg.		Cód.	Ref.	€/100
Acabado / Finition / Finishing / Endverarbeitung: SINARD					
4	30	100	1001326450	240 DT	24,60
6	30	100	1001326550	241 DT	24,60



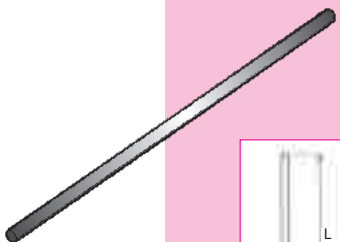
ØD mm.	L mm.	L + L mm.	Kg.		Cód.	Ref.	€/100
4	180	150-300	30	100	10013451	240 DT - 640	40,00
4	330	300-600	30	100	10013454	240 DT - 643	45,00
4	630	600-1200	30	100	10013460	240 DT - 649	70,00
4	830	800-1500	30	100	10013464	240 DT - 653	90,00
4	1030	1000-2000	30	100	10013468	240 DT - 657	110,00

Conjunto premontado - Ensemble prémonté - Preeassembled set - Vormontierter Satz.



ØD mm.	L mm.		Cód.	Ref.	€/100
4	180	100	10013433	640	17,50
4	330	100	10013436	643	24,60
4	630	100	10013442	649	45,70
4	830	100	10013446	653	55,00
4	1030	100	10013450	657	65,40

Consultar otras medidas.
Other length under request.



ØD mm.	L mm.		Cód.	Ref.	€/100
4	1000	100	10013430	630	34,00
6	1000	100	10013431	631	65,80

Acero galvanizado.
Galvanized steel.

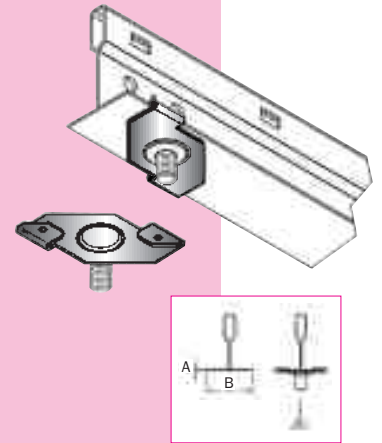


Elementos de fijación rápida
Elements de fixation rapide

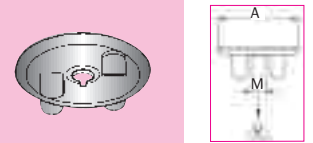
Quick attachment devices
Schnellen befestigungselemente



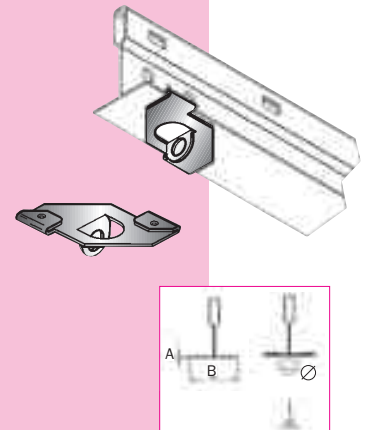
B mm.	A mm.	M6xL	Kg.		Cód.	Ref.	€/100
Acabado / Finition / Finishing / Endverarbeitung: CINCADO							
25	1'5	M6 x 9	20	100	1001367150	ACC25 M6x9 ZN (140 T-9 ZN)	56,50
25	1'5	M6 x 16	20	100	1001367250	ACC25 M6x16 ZN (140 T-16 ZN)	63,80
25	1'5	M6 x 25	20	100	1001367350	ACC25 M6x25 ZN (140 T-25 ZN)	78,60
Lacado blanco - Laqué blanc - White lacquer - Weisslackiert (1)							
25	1'5	M6 x 9	20	100	1001367190	ACC25 M6x9 L (140 T-9 L)	91,50
25	1'5	M6 x 16	20	100	1001367290	ACC25 M6x16 L (140 T-16 L)	95,00
25	1'5	M6 x 25	20	100	1001367390	ACC25 M6x25 L (140 T-25 L)	105,00



M	Kg.		Cód.	Ref.	€/100
Acabado / Finition / Finishing / Endverarbeitung: CINCADO					
M6	20	100	1001367450	ACN ZN (290 ZN)	31,80

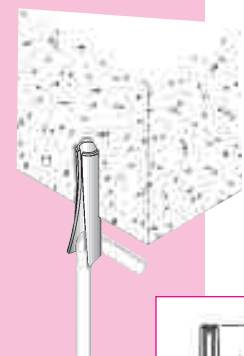


B mm.	A mm.	∅	Kg.		Cód.	Ref.	€/100
Acabado / Finition / Finishing / Endverarbeitung: CINCADO							
25	1'5	5'4	20	100	1001367550	ACT ZN (141 ZN)	30,70
Lacado blanco - Laqué blanc - White lacquer - Weisslackiert (1)							
25	1'5	5'4	20	100	1001367590	ACT L (141 L)	82,00

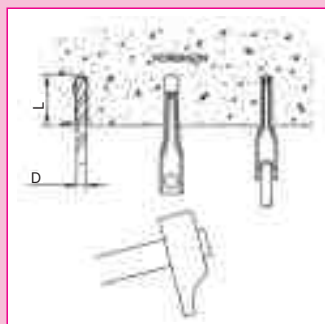


(1) Disponible en otros colores / (1) Disponible en autres couleurs
(1) Available in other colors / (1) In anderen Farben erhältlich

∅V mm.	Prof. min. anclaje "L" mm.	∅D mm.	Kg.		Cód.	Ref.	€/100
4	20	8	40	100	10013530	270	14,80

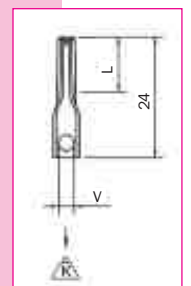


**MONTAJE - MONTAGE -
INSTALLATION - MONTAGE:**



ATENCIÓN:

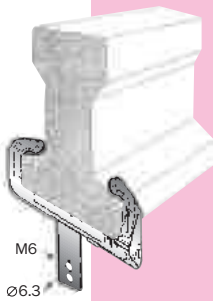
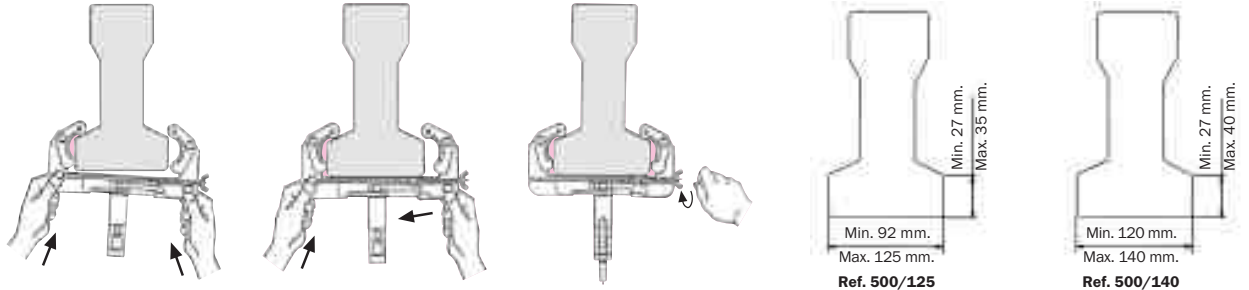
Usar sólo en **hormigón no fisurado**.
Use only on **non-cracked concrete**.



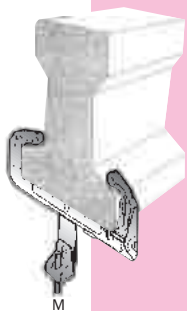


**SOPORTE PARA VIGAS DE HORMIGÓN - SUPPORT POUR POUTRE EN BETÓN
CONCRETE BEAM SUPPORT - STÜTZE FÜR BETONBALKEN**

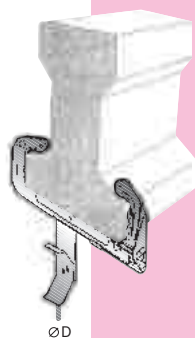
MONTAJE - MONTAGE - INSTALLATION - MONTAGE:



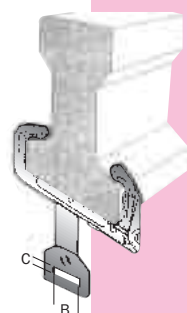
Kg.		Cód.	Ref.	€/100
90	50	10013267	500/125	426,90
90	50	10013282	500/140	426,90



M	Kg.		Cód.	Ref.	€/100
M6	70	50	10013268	500-210/125	538,10
M6	70	50	10013283	500-210/140	538,10
M8	70	50	10013269	500-211/125	538,10
M8	70	50	10013284	500-211/140	538,10
M10	70	50	10013270	500-212/125	538,10
M10	70	50	10013285	500-212/140	538,10




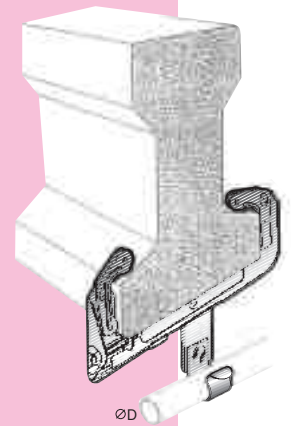
ØD mm.	Kg.		Cód.	Ref.	€/100
4	60	50	10013271	500-220/125	514,70
4	60	50	10013286	500-220/140	514,70
6	60	50	10013272	500-221/125	514,70
6	60	50	10013287	500-221/140	514,70




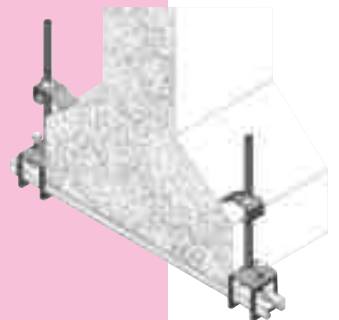
B x C	Kg.		Cód.	Ref.	€/100
28 x 6'5	45	50	10013273	500-230/125	503,00
28 x 6'5	45	50	10013288	500-230/140	503,00



∅D mm.		Cód.	Ref.	€/100
12-14	50	10013274	500-310.1/125	508,80
12-14	50	10013289	500-310.1/140	508,80
15-18	50	10013275	500-312.1/125	514,70
15-18	50	10013290	500-312.1/140	514,70
19-24	50	10013276	500-314.1/125	526,40
19-24	50	10013291	500-314.1/140	526,40
25-30	50	10013277	500-316.1/125	529,80
25-30	50	10013292	500-316.1/140	529,80
31-35	50	10013278	500-317.1/125	532,20
31-35	50	10013293	500-317.1/140	532,20
36-40	50	10013279	500-318.1/125	534,70
36-40	50	10013294	500-318.1/140	534,70
41-45	50	10013280	500-319.1/125	538,10
41-45	50	10013295	500-319.1/140	538,10
46-50	50	10013281	500-320.1/125	541,50
46-50	50	10013296	500-320.1/140	541,50

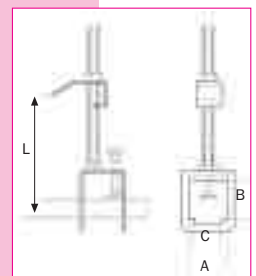


L mm. (*)		A x B / C	Kg.		Cód.	Ref.	€/100
min.	max.	mm.					
30	150	43x23/28	75	20	10013480	510	678,50
30	150	43x43/28	75	20	10013481	520	678,50

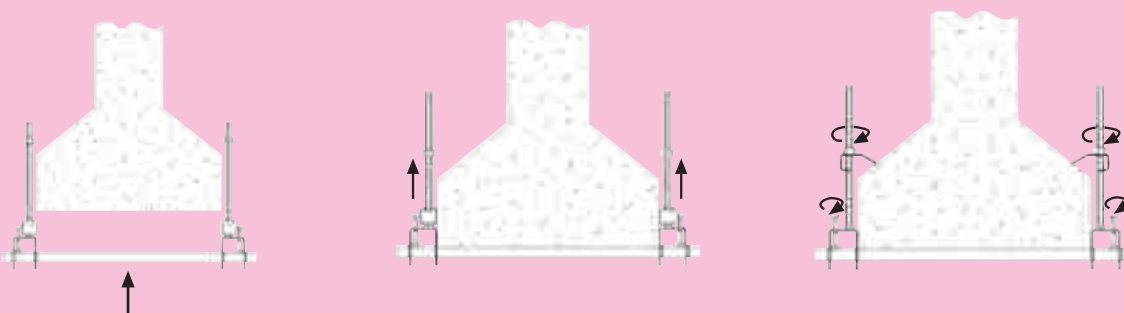


(*) Consultar para otras longitudes / Other lengths on request.

- | | |
|--------------------------------------|------------------------------------|
| - Fácil y cómoda instalación | - Easy and simple installation |
| - Sin necesidad de taladrar la viga | - No drilling required |
| - Alta capacidad de agarre | - High application loads |
| - Altura de vidias: de 30 a 160 mm. | - Beams from 30 to 160 mm. high |
| - Se adapta a la mayoría de perfiles | - Suitable to most common profiles |
| - No incluye el perfil | - Profile not included |



MONTAJE - MONTAGE - INSTALLATION - MONTAGE:



Cód.	Ref.	Pág.	Cód.	Ref.	Pág.	Cód.	Ref.	Pág.	Cód.	Ref.	Pág.	Cód.	Ref.	Pág.
10013001	100	6	10013058	100-314.1	8	1001310750	103-319.1 DT	8	10013183	D9 T10	21	1001355650	104-281 DT	10
1001300150	100 DT	6	1001305850	100-314.1 DT	8	10013108	103-320.1	8	10013184	M10 T10	21	1001355750	104-282 DT	10
10013002	101	6	10013059	100-316.1	8	1001310850	103-320.1 DT	8	10013185	D11 T10	21	1001355850	105-280 DT	10
1001300250	101 DT	6	1001305950	100-316.1 DT	8	100131109	100-310	11	10013186	M12 T10	21	1001355950	105-281 DT	10
10013003	102	6	10013060	100-317.1	8	1001310950	110-210 DT	11	10013187	D13 T10	21	1001356050	105-282 DT	10
1001300350	102 DT	6	1001306050	100-317.1 DT	8	100131110	110-211	11	10013190	101 AP-R	6	1001356150	106-280 DT	10
10013004	103	6	10013061	100-318.1	8	1001311050	110-211 DT	11	1001319050	101 AP-R DT	6	1001356250	106-281 DT	10
1001300450	103 DT	6	1001306150	100-318.1 DT	8	100131111	110-212	11	10013191	102 AP-R	6	1001356350	106-282 DT	10
10013005	104	10	10013062	100-319.1	8	1001311150	110-212 DT	11	1001319150	102 AP-R DT	6	1001356450	110-280 DT	12
1001300550	104 DT	10	1001306250	100-319.1 DT	8	100131112	110-220	12	10013195	101 AP-T	6	1001356550	110-281 DT	12
10013006	104 T-M6	10	10013063	100-320.1	8	1001311250	110-220 DT	12	1001319550	101 AP-T DT	6	1001356650	110-282 DT	12
1001300650	104 T-M6 DT	10	1001306350	100-320.1 DT	8	10013113	110-221	12	10013196	102 AP-T	6	1001356750	111-280 DT	12
10013007	105	10	10013064	101-210	7	1001311350	110-221 DT	12	1001319650	102 AP-T DT	6	1001356850	111-281 DT	12
1001300750	105 DT	10	1001306450	101-210 DT	7	10013114	110-230	12	10013206	104 T-M8	10	1001356950	111-282 DT	12
10013008	105 T-M6	10	10013065	101-211	7	1001311450	110-230 DT	12	1001320650	104 T-M8 DT	10	1001357350	113-280 DT	12
1001300850	105 T-M6 DT	10	1001306550	101-211 DT	7	10013115	110-310.1	13	10013208	105 T-M8	10	1001357450	113-281 DT	12
10013009	106	10	10013066	101-212	7	1001311550	110-310.1 DT	13	1001320850	105 T-M8 DT	10	1001357550	113-282 DT	12
1001300950	106 DT	10	1001306650	101-212 DT	7	10013116	110-312.1	13	10013210	106 T-M8	10	1001357650	120-280 DT	15
10013010	106 T-M6	10	10013067	101-220	9	1001311650	110-312.1 DT	13	1001321050	106 T-M8 DT	10	1001357750	120-281 DT	15
1001301050	106 T-M6 DT	10	1001306750	101-220 DT	9	10013117	110-314.1	13	1001323050	260 DT	24	1001357850	120-282 DT	15
10013011	110	11	10013068	101-221	9	1001311750	110-314.1 DT	13	10013256	1122-220	24	1001357950	131-280 H DT	20
1001301150	110 DT	11	1001306850	101-221 DT	9	10013118	110-316.1	13	1001325650	1122-220 DT	24	1001358050	131-281 H DT	20
10013012	111	11	10013069	101-230	6	1001311850	110-316.1 DT	13	10013257	1122-221	24	1001358150	131-282 H DT	20
1001301250	111 DT	11	1001306950	101-230 DT	6	10013119	110-317.1	13	1001325750	1122-221 DT	24	1001358250	131-280 V DT	20
10013014	113	11	10013070	101-231	9	1001311950	110-317.1 DT	13	10013258	307.2	14	1001358350	131-281 V DT	20
1001301450	113 DT	11	1001307050	101-231 DT	9	10013120	110-318.1	13	1001325850	307.2 DT	14	1001358450	131-282 V DT	20
1001301550	PCM10 DT	11	10013071	101-310.1	8	1001312050	110-318.1 DT	13	10013259	309.2	14	10013600	M6 T8	21
1001301650	PCM18 DT	11	1001307150	101-310.1 DT	8	10013121	110-319.1	13	1001325950	309.2 DT	14	10013601	M6 T10	21
1001301850	250 DT	17	10013072	101-312.1	8	1001312150	110-319.1 DT	13	10013260	311.2	14	10013602	D7 T8	21
10013020	210	17	1001307250	101-312.1 DT	8	10013122	110-320.1	13	1001326050	311.2 DT	14	10013603	D7 T10	21
1001302050	210 DT	17	10013073	101-314.1	8	1001312250	110-320.1 DT	13	10013261	313.2	14	10013604	M16 T12	21
10013021	211	17	1001307350	101-314.1 DT	8	10013123	111-210	11	1001326150	313.2 DT	14	10013605	D17 T12	21
1001302150	211 DT	17	10013074	101-316.1	8	1001312350	111-210 DT	11	10013262	315.2	14	100136050	130 DT	20
10013022	212	17	1001307450	101-316.1 DT	8	10013124	111-211	11	1001326250	315.2 DT	14	1001361750	140 T-9 ZN	26
1001302250	212 DT	17	10013075	101-317.1	8	1001312450	111-211 DT	11	10013263	317.2	14	1001367250	140 T-16 ZN	26
10013023	220	17	1001307550	101-317.1 DT	8	10013125	111-212	11	1001326350	317.2 DT	14	1001367350	140 T-25 ZN	26
1001302350	220 DT	17	10013076	101-318.1	8	1001312550	111-212 DT	11	1001326450	240 DT	25	1001367190	140 T-9 L	26
10013024	221	17	1001307650	101-318.1 DT	8	10013126	111-220	12	1001326550	241 DT	25	1001367290	140 T-16 L	26
1001302450	221 DT	17	10013077	101-319.1	8	1001312650	111-220 DT	12	10013267	500/125	27	1001367390	140 T-25 L	26
10013025	230	17	1001307750	101-319.1 DT	8	10013127	111-221	12	10013268	500-210/125	27	1001367450	290 ZN	26
1001302550	230 DT	17	10013078	101-320.1	8	1001312750	111-221 DT	12	10013269	500-211/125	27	1001367550	141 ZN	26
10013027	306	14	1001307850	101-320.1 DT	8	10013128	111-230	12	10013270	500-212/125	27	1001367650	141 L	26
1001302750	306 DT	14	10013079	102-210	7	1001312850	111-230 DT	12	10013271	500-220/125	27	1001368050	150 DT	19
10013028	307	14	1001307950	102-210 DT	7	10013129	111-310.1	13	10013272	500-221/125	27	1001368150	150-210 DT	19
1001302850	307 DT	14	10013080	102-211	7	1001312950	111-310.1 DT	13	10013273	500-230/125	27	1001368250	150-211 DT	19
10013029	308	14	1001308050	102-211 DT	7	10013130	111-312.1	13	10013274	500-310.1/125	28	1001368350	150-212 DT	19
1001302950	308 DT	14	10013081	102-212	7	1001313050	111-312.1 DT	13	10013275	500-312.1/125	28	1001368450	150-230 DT	19
10013030	309	14	1001308150	102-212 DT	7	10013131	111-314.1	13	10013276	500-314.1/125	28	1001368550	150-220 DT	19
1001303050	309 DT	14	10013082	102-220	9	1001313150	111-314.1 DT	13	10013277	500-316.1/125	28	1001368650	150-221 DT	19
10013031	310	14	1001308250	102-220 DT	9	10013132	111-316.1	13	10013278	500-317.1/125	28	10013690	304	14
1001303150	310 DT	14	10013083	102-221	9	1001313250	111-316.1 DT	13	10013279	500-318.1/125	28	1001369050	304 DT	14
10013032	310.1	18	1001308350	102-221 DT	9	10013133	111-317.1	13	10013280	500-319.1/125	28	10013691	305	14
1001303250	310.1 DT	18	10013084	102-230	6	1001313350	111-317.1 DT	13	10013281	500-320.1/125	28	1001369150	305 DT	14
10013033	311	14	1001308450	102-230 DT	6	10013134	111-318.1	13	10013282	500/140	27	10013692	305.2	14
1001303350	311 DT	14	10013085	102-231	9	1001313450	111-318.1 DT	13	10013283	500-210/140	27	1001369250	305.2 DT	14
10013034	312	14	1001308550	102-231 DT	9	10013135	111-319.1	13	10013284	500-211/140	27	1001369850	325 DT	14
1001303450	312 DT	14	10013086	102-310.1	8	1001313550	111-319.1 DT	13	10013285	500-212/140	27	1001369950	326 DT	14
10013035	312.1	18	1001308650	102-310.1 DT	8	10013136	111-320.1	13	10013286	500-220/140	27	10013701	MX2L-15-2	22
1001303550	312.1 DT	18	10013087	102-312.1	8	1001313650	111-320.1 DT	13	10013287	500-221/140	27	10013702	MX2L-15-3	22
10013036	313	14	1001308750	102-312.1 DT	8	100131351	113-210	11	10013288	500-230/140	27	10013703	MX2L-15-5	22
1001303650	313 DT	14	10013088	102-314.1	8	10013135150	113-210 DT	11	10013289	500-310.1/140	28	10013704	MX2L-75-2	22
10013037	314	14	1001308850	102-314.1 DT	8	100131352	113-211	11	10013290	500-312.1/140	28	10013705	MX2L-75-3	22
1001303750	314 DT	14	10013089	102-316.1	8	10013135250	113-211 DT	11	10013291	500-314.1/140	28	10013706	MX2L-75-5	22
10013038	314.1	18	1001308950	102-316.1 DT	8	100131353	113-212	11	10013292	500-316.1/140	28	10013707	MX2V-15-2	22
1001303850	314.1 DT	18	10013090	102-317.1	8	10013135350	113-212 DT	11	10013293	500-317.1/140	28	10013708	MX2V-15-3	22
10013039	319.1	14	1001309050	102-317.1 DT	8	100131354	113-220	12	10013294	500-318.1/140	28	10013709	MX2V-15-5	22
1001303950	315 DT	14	10013091	102-318.1	8	10013135450	113-220 DT	12	10013295	500-319.1/140	28	10013710	MX2V-75-2	22
10013040	316	14	1001309150	102-318.1 DT	8	100131355	113-221	12	10013296	500-320.1/140	28	10013711	MX2V-75-3	22
1001304050	316 DT	14	10013092	102-319.1	8	10013135550	113-221 DT	12	10013430	630	25	10013712	MX2V-75-5	22
10013041	316.1	18	1001309250	102-319.1 DT	8	100131356	113-230	12	10013431	631	25	10013713	MX2R-15-2	22
1001304150	316.1 DT	18	10013093	102-320.1	8	10013135650	113-230 DT	12	10013433	640	25	10013714	MX2R-15-3	22
10013042	317	14	1001309350											

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100	10013001	6	102-281 DT	1001355050	7	110-282 DT	1001356650	12	120-281 DT	1001357750	15	314.1	10013038	18
100 DT	1001300150	6	102-282 DT	1001355150	7	110-310.1	10013115	13	120-282 DT	1001357850	15	314.1 DT	1001303850	18
100-210	10013049	7	102-310.1	10013086	8	110-310.1 DT	1001311500	13	130 DT	1001365050	20	315	10013039	14
100-210 DT	1001304950	7	102-310.1 DT	1001308650	8	110-312.1	10013116	13	131-280 H DT	1001357950	20	315 DT	1001303950	14
100-211	10013050	7	102-312.1	10013087	8	110-312.1 DT	1001311650	13	131-281 H DT	1001358050	20	315.2	10013262	14
100-211 DT	1001305050	7	102-312.1 DT	1001308750	8	110-314.1	10013117	13	131-282 H DT	1001358150	20	315.2 DT	1001326250	14
100-212	10013051	7	102-314.1	10013088	8	110-314.1 DT	1001311750	13	131-280 V DT	1001358250	20	316	10013040	14
100-212 DT	1001305150	7	102-314.1 DT	1001308850	8	110-316.1	10013118	13	131-281 V DT	1001358350	20	316 DT	1001304050	14
100-220	10013052	9	102-316.1	10013089	8	110-316.1 DT	1001311850	13	131-282 V DT	1001358450	20	316.1	10013041	18
100-220 DT	1001305250	9	102-316.1 DT	1001308950	8	110-317.1	10013119	13	140 T-9 DT	1001367150	26	316.1 DT	1001304150	18
100-221	10013053	9	102-317.1	10013090	8	110-317.1 DT	1001311950	13	140 T-9 L	1001367190	26	317	10013042	14
100-221 DT	1001305350	9	102-317.1 DT	1001309050	8	110-318.1	10013120	13	140 T-16 DT	1001367250	26	317 DT	1001304250	14
100-230	10013054	6	102-318.1	10013091	8	110-318.1 DT	1001312050	13	140 T-16 L	1001367290	26	317.1	10013043	18
100-230 DT	1001305450	6	102-318.1 DT	1001309150	8	110-319.1	10013121	13	140 T-25 DT	1001367350	26	317.1 DT	1001304350	18
100-231	10013055	9	102-319.1	10013092	8	110-319.1 DT	1001312150	13	140 T-25 L	1001367390	26	317.2	10013263	14
100-231 DT	1001305550	9	102-319.1 DT	1001309250	8	110-320.1	10013122	13	141 DT	1001367550	26	317.2 DT	1001326350	14
100-250 DT	1001317150	9	102-320.1	10013093	8	110-320.1 DT	1001312250	13	141 L	1001367590	26	318.1	10013044	18
100-280 DT	1001354350	7	102-320.1 DT	1001309350	8	111	10013012	11	150 DT	1001368050	19	318.1 DT	1001304450	18
100-281 DT	1001354450	7	103	10013004	6	111 DT	1001301250	11	150-210 DT	1001368150	19	319.1	10013045	18
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100-310.1	10013056	8	103-210	10013094	7	111-210 DT	1001312350	11	150-212 DT	1001368350	19	320.1	10013046	18
100-310.1 DT	1001305650	8	103-210 DT	1001309450	7	111-211	10013124	11	150-220 DT	1001368550	19	320.1 DT	1001304650	18
100-312.1	10013057	8	103-211	10013095	7	111-211 DT	1001312450	11	150-221 DT	1001368650	19	325 DT	1001369850	14
100-312.1 DT	1001305750	8	103-211 DT	1001309550	7	111-212	10013125	11	150-230 DT	1001368850	19	326 DT	1001369950	14
100-314.1	10013058	8	103-212	10013096	7	111-212 DT	1001312550	11	160 DT	1001380050	16	500/125	10013267	27
100-314.1 DT	1001305850	8	103-212 DT	1001309650	7	111-220	10013126	12	160-280 DT	1001380350	16	500/140	10013282	27
100-316.1	10013059	8	103-220	10013097	9	111-220 DT	1001312650	12	160-281 DT	1001380450	16	500-210/125	10013288	27
100-316.1 DT	1001305950	8	103-220 DT	1001309750	9	111-221	10013127	12	160-282 DT	1001380550	16	500-210/140	10013283	27
100-317.1	10013060	8	103-221	10013098	9	111-221 DT	1001312750	12	161 DT	1001380150	16	500-211/125	10013289	27
100-317.1 DT	1001306050	8	103-221 DT	1001309850	9	111-230	10013128	12	161-280 DT	1001380650	16	500-211/140	10013294	27
100-318.1	10013061	8	103-230	10013099	6	111-230 DT	1001312850	12	161-281 DT	1001380750	16	500-212/125	10013270	27
100-318.1 DT	1001306150	8	103-230 DT	1001309950	6	111-250 DT	1001317650	12	161-282 DT	1001380850	16	500-212/140	10013285	27
100-319.1	10013062	8	103-231	10013100	9	111-280 DT	1001356750	12	162 DT	1001380250	16	500-220/125	10013271	28
100-319.1 DT	1001306250	8	103-231 DT	1001310050	9	111-281 DT	1001356850	12	162-280 DT	1001380950	16	500-220/140	10013286	28
100-320.1	10013063	8	103-250 DT	1001317450	9	111-282 DT	1001356950	12	162-281 DT	1001381050	16	500-221/125	10013272	28
100-320.1 DT	1001306350	8	103-280 DT	1001355250	7	111-310.1	10013129	13	162-282 DT	1001381150	16	500-221/140	10013287	28
101	10013002	6	103-281 DT	1001355350	7	111-310.1 DT	1001312950	13	210	10013020	17	500-230/125	10013273	28
101 DT	1001300250	6	103-282 DT	1001355450	7	111-312.1	10013130	13	210 DT	1001302050	17	500-230/140	10013288	28
101 AP-R	10013190	6	103-310.1	10013101	8	111-312.1 DT	1001313050	13	211	10013021	17	500-310.1/125	10013274	28
101 AP-R DT	1001319050	6	103-310.1 DT	1001310150	8	111-314.1	10013131	13	211 DT	1001302150	17	500-310.1/140	10013289	28
101 AP-T	10013195	6	103-312.1	10013102	8	111-314.1 DT	1001313150	13	212	10013022	17	500-312.1/125	10013275	28
101 AP-T DT	1001319550	6	103-312.1 DT	1001310250	8	111-316.1	10013132	13	212 DT	1001302250	17	500-312.1/140	10013290	28
101-210	10013064	7	103-314.1	10013103	8	111-316.1 DT	1001313250	13	220	10013023	17	500-314.1/125	10013276	28
101-210 DT	1001306450	7	103-314.1 DT	1001310350	8	111-317.1	10013133	13	220 DT	1001302350	17	500-314.1/140	10013291	28
101-211	10013065	7	103-316.1	10013104	8	111-317.1 DT	1001313350	13	221	10013024	17	500-316.1/125	10013277	28
101-211 DT	1001306550	7	103-316.1 DT	1001310450	8	111-318.1	10013134	13	221 DT	1001302450	17	500-316.1/140	10013292	28
101-212	10013066	7	103-317.1	10013105	8	111-318.1 DT	1001313450	13	230	10013025	17	500-317.1/125	10013278	28
101-212 DT	1001306650	7	103-317.1 DT	1001310550	8	111-319.1	10013135	13	230 DT	1001302550	17	500-317.1/140	10013293	28
101-220	10013067	9	103-318.1	10013106	8	111-319.1 DT	1001313550	13	240 DT	1001326450	25	500-318.1/125	10013279	28
101-220 DT	1001306750	9	103-318.1 DT	1001310650	8	111-320.1	10013136	13	240 DT - 640	10013451	25	500-318.1/140	10013294	28
101-221	10013068	9	103-319.1	10013107	8	111-320.1 DT	1001313650	13	240 DT - 643	10013454	25	500-319.1/125	10013280	28
101-221 DT	1001306850	9	103-319.1 DT	1001310750	8	1122-220	10013256	24	240 DT - 649	10013460	25	500-319.1/140	10013295	28
101-230	10013069	6	103-320.1	10013108	8	1122-220 DT	1001325650	24	240 DT - 653	10013464	25	500-320.1/125	10013281	28
101-230 DT	1001306950	6	103-320.1 DT	1001310850	8	1122-221	10013257	24	240 DT - 657	10013468	25	500-320.1/140	10013296	28
101-231	10013070	9	104	10013005	10	1122-221 DT	1001325750	24	241 DT	1001326550	25	510	10013480	28
101-231 DT	1001307050	9	104 DT	1001300550	10	113	10013014	11	250 DT	1001301850	17	520	10013481	28
101-250 DT	1001317250	9	104 T-M6	10013006	10	113 DT	1001301450	11	260 DT	1001323050	24	630	10013430	25
101-280 DT	1001354650	7	104 T-M6 DT	1001300650	10	113-210	10013151	11	270	10013530	26	631	10013431	25
101-281 DT	1001354750	7	104 T-M8	10013206	10	113-210 DT	1001315150	11	280 DT	1001354050	17	640	10013433	25
101-282 DT	1001354850	7	104 T-M8 DT	1001320650	10	113-211	10013152	11	281 DT	1001354150	17	643	10013436	25
101-310.1	10013071	8	104-280 DT	1001355550	10	113-211 DT	1001315250	11	282 DT	1001354250	17	649	10013442	25
101-310.1 DT	1001307150	8	104-281 DT	1001355650	10	113-212	10013153	11	290 DT	1001367450	26	653	10013446	25
101-312.1	10013072	8	104-282 DT	1001355750	10	113-212 DT	1001315350	11	304	10013690	14	657	10013450	25
101-312.1 DT	1001307250	8	105	10013007	10	113-220	10013154	12	304 DT	1001369050	14	D11 T10	10013185	21
101-314.1	10013073	8	105 DT	1001300750	10	113-220 DT	1001315450	12	305	10013691	14	D13 T10	10013187	21
101-314.1 DT	1001307350	8	105 T-M6	10013008	10	113-221	10013155	12	305 DT	1001359150	14	D17 T12	10013605	21
101-316.1	10013074	8	105 T-M6 DT	1001300850	10	113-221 DT	1001315550	12	305.2	10013692	14	D7 T10	10013603	21
101-316.1 DT	1001307450	8	105 T-M8	10013208	10	113-230	10013156	12	305.2 DT	1001369250	14	D7 T8	10013602	21
101-317.1	10013075	8	105 T-M8 DT	1001320850	10	113-230 DT	1001315650	12	306	10013027	14	D9 T10	10013183	21
101-317.1 DT	1001307550	8	105-280 DT	1001355850	10	113-280 DT	1001357350	12	306 DT	1001302750	14	D9 T8	10013181	21
101-318.1	10013076	8	105-281 DT	1001355950	10	113-281 DT	1001357450	12	307	10013028	14	M10 T10	10013184	21
101-318.1 DT	1001307650	8	105-282 DT	1001356050	10	113-282 DT								

Especialistas en la **estampación en acero elástico con tratamiento térmico**, además de los clips de fijación rápida, S.A. SINARD es el fabricante de una amplia gama de productos:

- **Piezas normalizadas según norma:** pasadores elásticos ISO 8752 (DIN 1481), ISO 8750 (DIN 7343), ISO 8748 (DIN 7344), muelles de platillo DIN 2093, aranlocks[®], anillos y arandelas DIN 137, DIN 471, DIN 6799, DIN 6798...
- **Fabricación de piezas especiales:** S.A. SINARD ofrece una solución completa y global en la fabricación de piezas según plano: desde el diseño y la fabricación de la matriz, hasta la estampación de las piezas y su posterior tratamiento térmico.

No dude en consultarnos para mayor información.

Spécialistes dans l'**emboutissage en acier élastique avec traitement thermique**, ainsi que des Éléments de Fixation Rapide, S.A. SINARD est fabricant d'une vaste gamme de produits:

- **Pièces normalisées selon norme:** goupilles élastiques ISO 8752 (DIN 1481), ISO 8750 (DIN 7343), ISO 8748 (DIN 7344), ressorts à plateaux DIN 2093, aranlocks[®], anneaux et rondelles DIN 137, DIN 471, DIN 6799, DIN 6798...
- **Fabrication des pièces spéciales:** S.A. SINARD offre une solution globale et complète dans la fabrication des pièces selon plan, avec traitement thermique: du dessin et la fabrication de l'outillage jusqu'à l'estampage des pièces et postérieur traitement thermique.

Veillez nous consulter si vous avez besoin de plus information.

Specialists in **heat treated spring steel stamping**, as well as Quick Attachment Devices, S.A. SINARD is manufacturer of a wide range of products:

- **Standard pieces according to norm:** spring pins ISO8752 (DIN 1481), ISO 8752 (DIN 7343), ISO 8748 (DIN 7344), disc springs DIN 2093, aranlocks[®], rings and washers DIN 137, DIN 471, DIN 6799, DIN 6798...
- **Production of special pieces:** S.A. SINARD offers you a global complete solution in the manufacturing of pieces according to drawings, with heat treatment; from design and production of tools to the piece stamping and subsequent heat treatment.

Should you need further information, please do not hesitate to contact us.

Als Spezialist im **Stanzan von elastischem Stahl** mit thermischer Behandlung, verfügt S.A. Sinard zusätzlich zu den Express-Klammern, über ein breites Produktangebot:

- **Normteile:** elastische Spannstifte ISO 8752 (DIN 1481), ISO 8750 (DIN 7343), ISO 8748 (DIN 7344), Tellerfedern DIN 2093, aranlocks[®], Sicherungsringe und Scheiben DIN 137, DIN 471, DIN 6799, DIN 6798...
- **Fertigung von Sonderteilen:** S.A. SINARD bietet eine komplette Lösung durch die Fertigung von Sonderteilen nach Zeichnung, inklusive thermischer Behandlung: angefangen bei Entwurf und Herstellung der Matrize, bis zum Stanzen der Teile und anschließender thermischer Behandlung.

Gerne geben wir Ihnen ausführlichere Information.



ISO 8752 (DIN 1481)



ISO 8750 (DIN 7343)
ISO 8748 (DIN 7344)



DIN 2093



ARANLOCKS



DIN 6799



CLIP



DIN 471



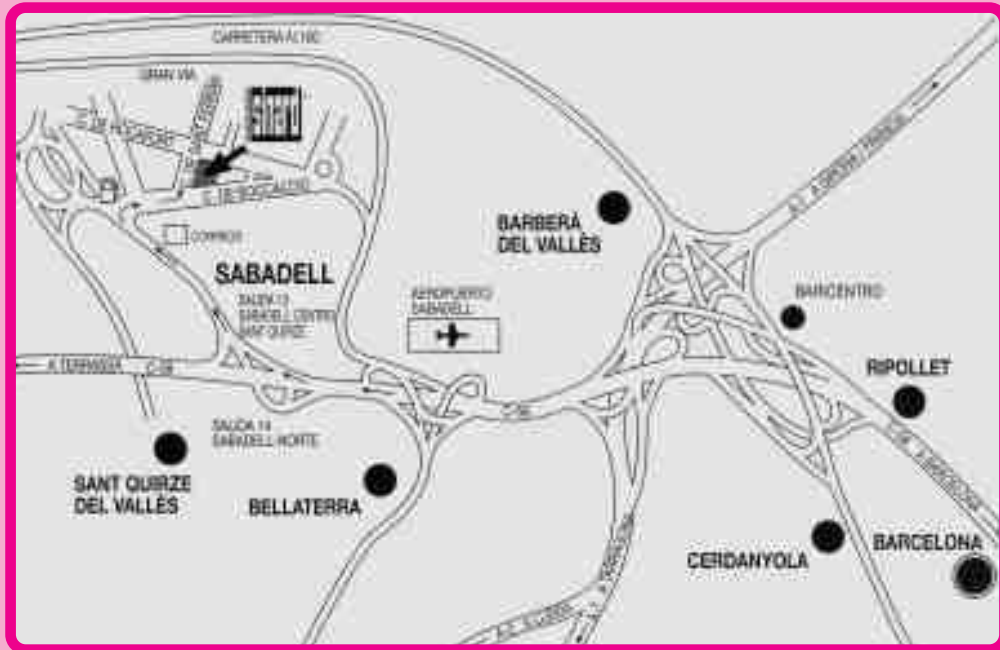
DIN 6798



DIN 137



A. RETENCION



Estampaciones en acero elástico con tratamiento térmico

Estampages en acier élastique avec traitement thermique

Heat treated spring steel stampings

Metallstanzarbeiten auf elastischem stahl mit thermischer behandlung

Rocafort, 66 - Apartado de correos 3224
08205 Sabadell
Tel. 93 710 47 00 - Fax. 93 710 47 12
comercial@sinard.es - Export: sinard@sinard.es
www.sinard.es

