EASYCONNECT®
BASKET TRAY

DATA CENTRES

Basket cable trays and accessories for Data Centres

Security is a must in Data Centers. These are critical infrastructures, where each risk must be detailed, evaluated, and controlled to guarantee its operativity.

As a result of our deep knowledge and commitment to innovation, VALDINOX offers the best wire mesh cable tray which provides a **patented self-assembling system** that eliminates fixing accessories between tray sections, thus reducing cost and time.

EASYCONNECT is resistance and safety in just 1 click

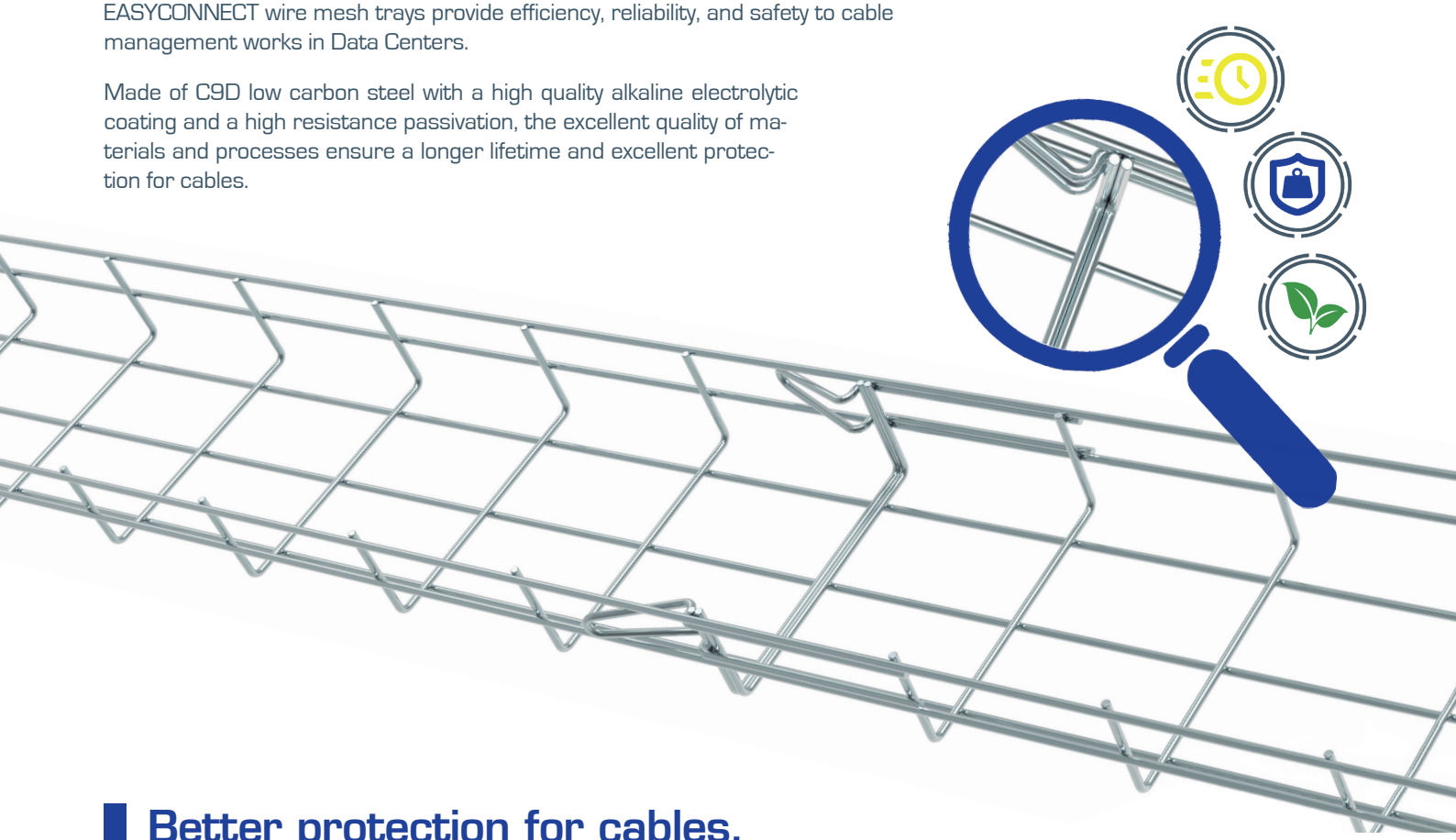
Always attentive to the needs of our clients, we bring our extensive experience, **highly specialized technical knowledge and one of the largest production capacities in Europe**, to exceed our clients' expectations by offering the appropriate solutions and the shortest delivery delays.

IEC IECEE CERTIFIED SAFETY CE GlobalEPD A VERIFIED ENVIRONMENTAL DECLARATION

EASYCONNECT, Resistance and Safety in 1 click

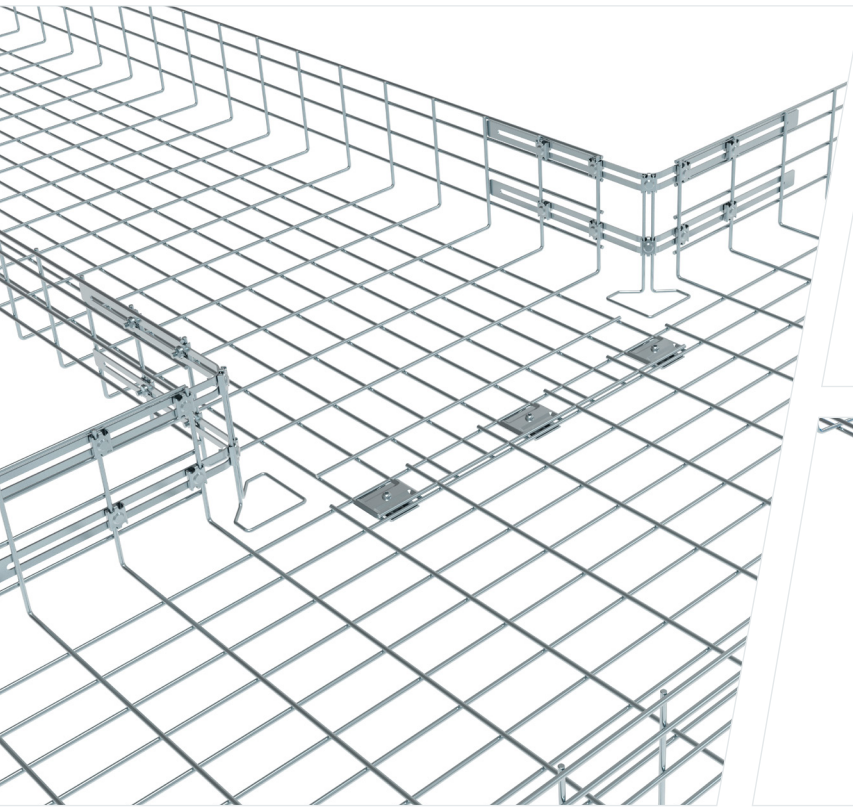
EASYCONNECT wire mesh trays provide efficiency, reliability, and safety to cable management works in Data Centers.

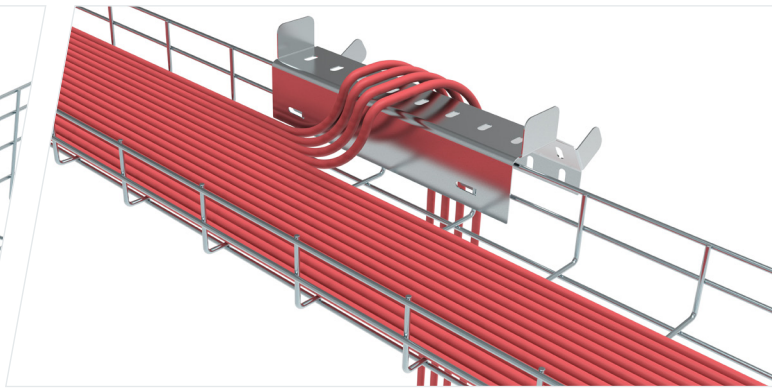
Made of C9D low carbon steel with a high quality alkaline electrolytic coating and a high resistance passivation, the excellent quality of materials and processes ensure a longer lifetime and excellent protection for cables.

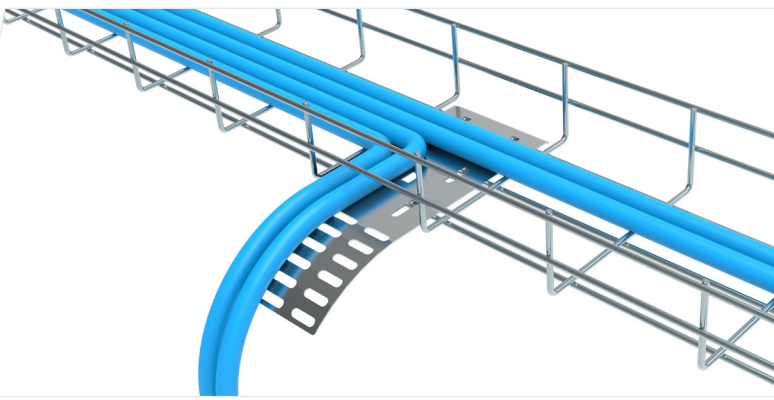


Better protection for cables. Improve energy efficiency

The EASYCONNECT basket trays also favors a better ventilation for cables, making it easier to keep its temperature within the limits indicated by the manufacturer, for the optimal operation and more efficient energy consumption.







Optimal management of fiber optic cables

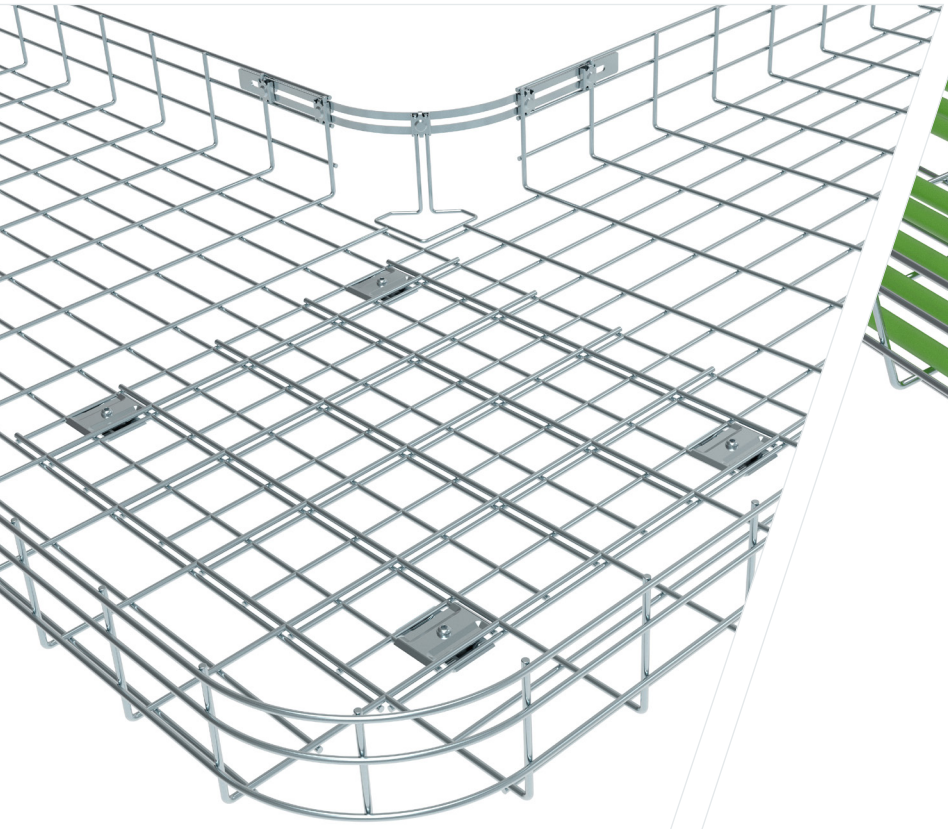
Characteristics of fiber optic cables require that cable layout is carefully designed, considering the limits for the bending radius to **avoid attenuation of transmission capacity and ensure a reliable and uninterrupted signal quality**.

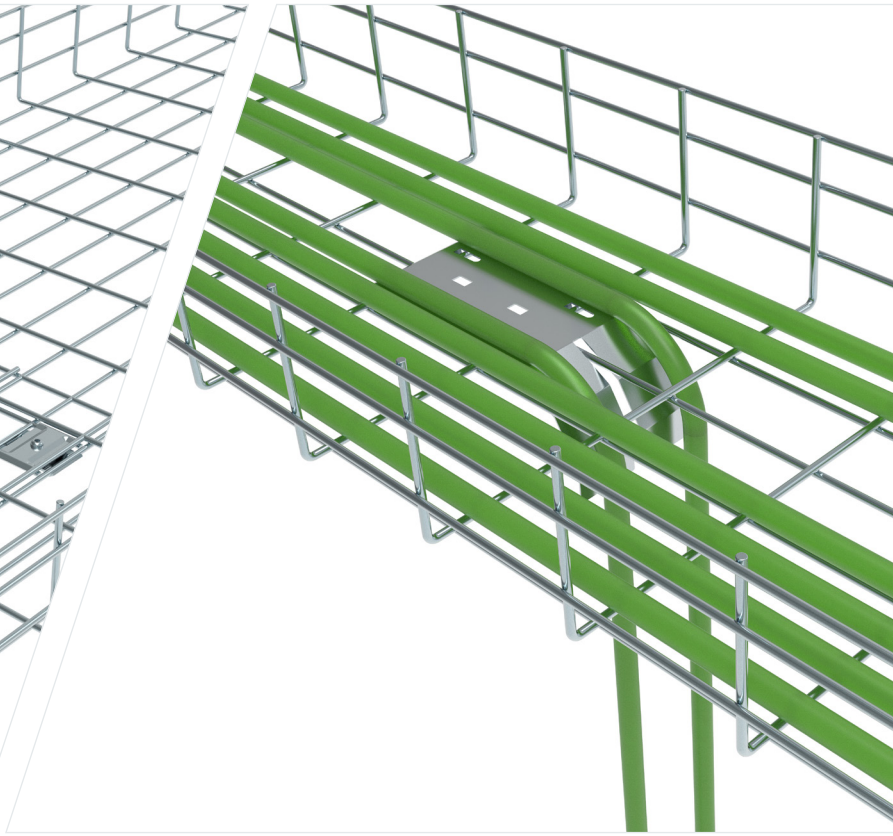
Attenuation can be minimized by reducing the number of bends and by increasing the bend radius. Each fiber optic cable manufacturer specifies the minimum bend radius. This parameter must be respected to guarantee the properties and transmission capacity of the cables.

TIP: Take the dimension of the external diameter of the Cable and multiply it by 20, in order to obtain an approximate reference value of the minimum bend radius (Rc). That is, Rc = 20 x Dc (where Dc is the outer diameter of the cable jacket).

VALDINOX cable trays and accessories for Data Centers have been designed considering the characteristics of fiber optic cables

- **PATENTED DESIGN**
  The patented design of EASYCONNECT fixing system, not only provides a faster and safer installation, but it also eliminates fixing accessories, bolts and screws that might constitute a risk to the integrity of the cables due to their angular shapes.
- **CABLE DROP-OUT PLATES**
  Cable drop-out plates comply with the bending radius of fiber optic cable allowing optimal performance and transmission capabilities
- **CFK ACCESSORIES**
  CFK accessories provide additional protection for cables at bends and crossings.
- **QUICK FIXING SYSTEM**
  All accessories provide quick fixing systems, no-screws required.





High quality coating
The zink whiskers phenomenon

This phenomenon, little studied to date, has regained interest in recent years due to the increasing miniaturization of electronic components and the proliferation of data processing centers..

Zinc-based electrolytic coatings generate microfilaments of zinc of about 10 µm in size that, transported by air, could cause short circuits in electronic components. However, this risk is negligible as well as being quite difficult to verify since these microfilaments would vaporize without leaving evidence of their existence the moment the short circuit is produced.

VALDINOX has conducted a pioneer study to evaluate different types of electrolytic coatings, including different passivation layers and sealants, both metallic and organic and mixed, concluding that there is no zinc-based coating or any type of sealant or subsequent passivation that prevents the generation of Zink Whiskers.

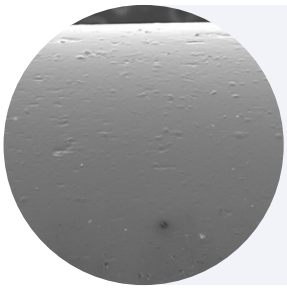
The results of the study confirm the theory that the surface tension is a determining parameter in the appearance of zinc microfilaments.

This research has been published by the prestigious MDPI Scientific Open Access Journal in a special issue dedicated to corrosion and protection of metallic materials in extreme environments.

There are plenty of electro-plated zinc components in addition to cable trays, such as screws, mounting profiles, frames, doorknobs, etc., within a Data Center, however their design is constantly improving, incorporating advanced cooling systems that include air filters capable of block the dispersion of particles smaller than 0.3 µm.

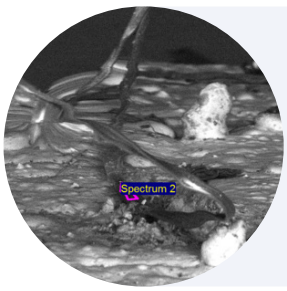
WWW

The full report is available here: https://www.mdpi.com/2075-4701/11/2/325

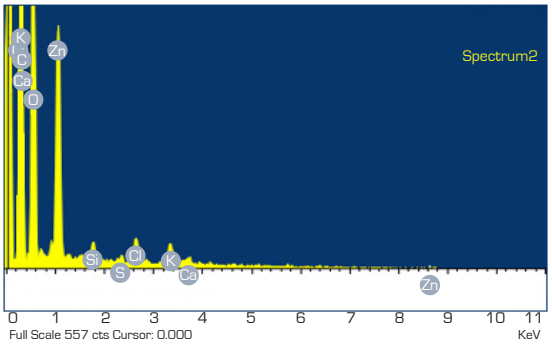


Scanning Electron Microscope (SEM) image of the surface of an EZ-coated steel wire, without zinc filaments

Zinc whisker: Scanning electron microscope (SEM) image of zinc whiskers on the surface of EZ-coated steel wire

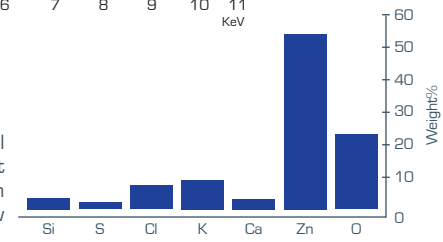


Magnified image of the filament and selection of the surface under analysis (spectrum 2)



Result of the molecular composition of the surface of a filament according to electromagnetic spectrum analysis

Bar graph detailing chemical composition of a filament considering the data contained in the first column of the table below



Element	Weight%	Atomic%	Compd%	Formula
Si K	3.36	4.12	7.18	SiO2
S K	1.83	1.97	4.57	SO3
Cl K	7.00	6.81	0.00	
K K	8.46	7.46	10.19	K2O
Ca K	2.97	2.55	4.15	CaO
Zn L	53.75	28.34	66.90	ZnO
O	22.63	48.76		
Totals	100.00			

Table detailing chemical analysis of a filament (traces of other molecules and elements are detected due to exogenous contamination over the surface)

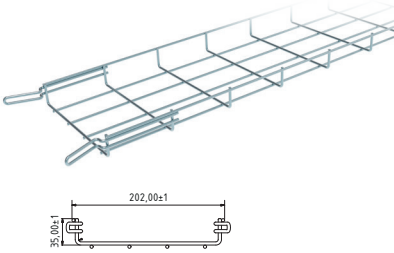
Easyconnect basket cable trays and accessories

EASYCONNECT® BASKET TRAY

EZ	HDG	IN 304 / IN 316L	H (mm)	W (mm)	Su* (cm²)	SWL (N/m)
EC30.060EZ	EC30.060HDG	EC30.060IN	35	70	16,92	172
EC30.100EZ	EC30.100HDG	EC30.100IN	35	102	26,87	178
EC30.150EZ	EC30.150HDG	EC30.150IN	35	152	42,42	188
EC30.200EZ	EC30.200HDG	EC30.200IN	35	202	57,97	199
EC30.300EZ	EC30.300HDG	EC30.300IN	35	302	87,43	221

Length: 3 m

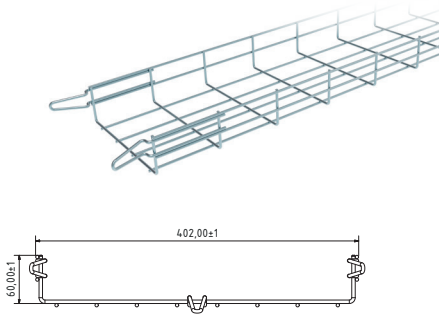
* Sección transversal / Cross Section / Section transversale



EZ	HDG	IN 304 / IN 316L	H (mm)	W (mm)	Su* (cm²)	SWL (N/m)
EC60.060EZ	EC60.060HDG	EC60.060IN	55	60	22,69	290
EC60.060EZ-6W	EC60.060HDG-6W	EC60.060IN-6W**	51	66	23,74	290
EC60.100EZ	EC60.100HDG	EC60.100IN	60	102	48,47	323
EC60.150EZ	EC60.150HDG	EC60.150IN	60	152	76,52	345
EC60.200EZ	EC60.200HDG	EC60.200IN	60	202	104,57	368
EC60.300EZ	EC60.300HDG	EC60.300IN	60	302	158,63	413
EC60.400EZ	EC60.400HDG	EC60.400IN	60	402	211,86	457
EC60.500EZ	EC60.500HDG	EC60.500IN	60	502	266,73	502
EC60.600EZ	EC60.600HDG	EC60.600IN	60	602	321,93	547

Length: 3 m

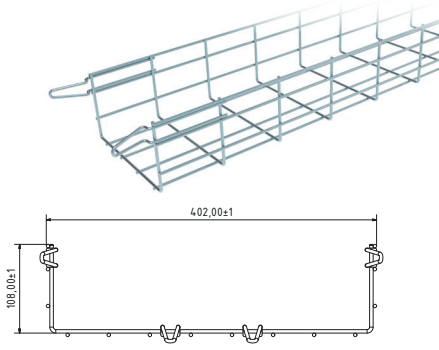
* Sección transversal / Cross Section / Section transversale
** H=55 mm; W=73 mm; Su=29,4 cm²



EZ	HDG	IN 304 / IN 316L	H (mm)	W (mm)	Su* (cm²)	SWL (N/m)
EC100.150EZ	EC100.150HDG	EC100.150IN	108	152	139,79	441
EC100.200EZ	EC100.200HDG	EC100.200IN	108	202	191,64	462
EC100.300EZ	EC100.300HDG	EC100.300IN	108	302	292,88	504
EC100.400EZ	EC100.400HDG	EC100.400IN	108	402	395,46	546
EC100.500EZ	EC100.500HDG	EC100.500IN	108	502	498,66	588
EC100.600EZ	EC100.600HDG	EC100.600IN	108	602	601,86	630

Length: 3 m

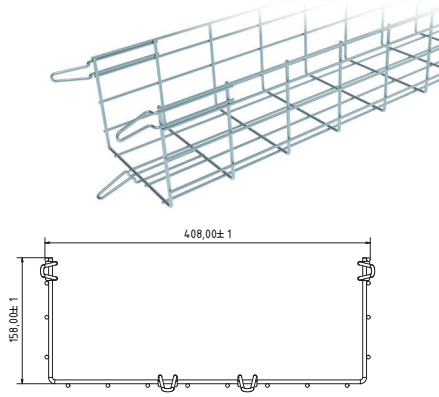
* Sección transversal / Cross Section / Section transversale



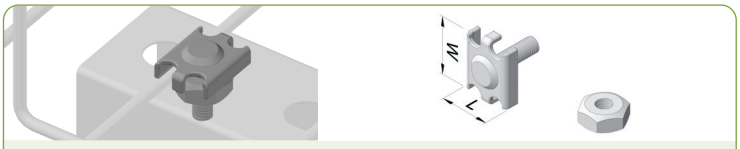
EZ	HDG	IN 304 / IN 316L	H (mm)	W (mm)	Su* (cm²)	SWL (N/m)
EC150.200EZ	EC150.200HDG	EC150.200IN	155	208	285,08	599
EC150.300EZ	EC150.300HDG	EC150.300IN	158	308	443,05	606
EC150.400EZ	EC150.400HDG	EC150.400IN	158	408	596,25	615
EC150.450EZ	EC150.450HDG	EC150.450IN	155	458	659,68	623
EC150.500EZ	EC150.500HDG	EC150.500IN	158	508	749,45	631
EC150.600EZ	EC150.600HDG	EC150.600IN	158	608	902,04	638

Length: 3 m

* Sección transversal / Cross Section / Section transversale

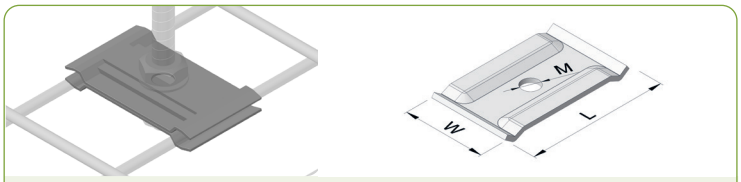


TYPE OF ACCESSORY | Fixing | Supporting | Installation

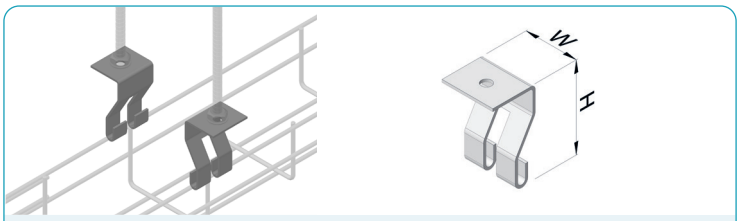


EZ	ZF	IN 304	W (mm)	L (mm)
FASEZ	FASZF	FASIN	23	20

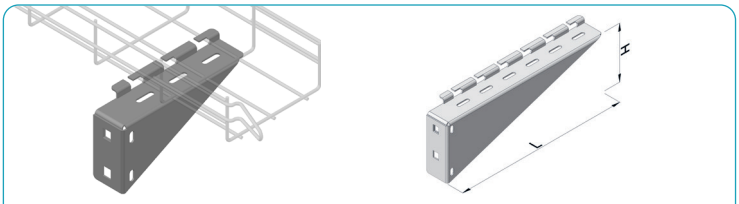
SG	EZ	HDG	IN 304	L (mm)	W (mm)
JS200SG	JS200EZ	JS200HDG	JS200IN	200	22
JS400SG	JS400EZ	JS400HDG	JS400IN	400	22
JS750SG	JS750EZ	JS750HDG	JS750IN	750	22
JS1050SG	JS1050EZ	JS1050HDG	JS1050IN	1050	22



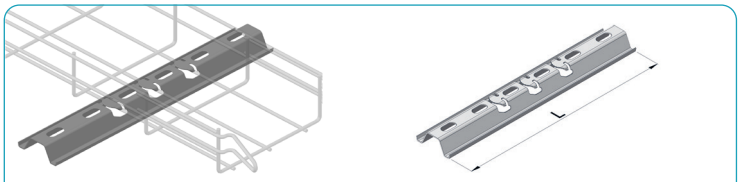
EZ	ZF	IN 304	W (mm)	L (mm)	M Ø
SC6EZ	SC6ZF	SC6IN	35	60	6
SC8EZ	SC8ZF	SC8IN	35	60	8
SC10EZ	SC10ZF	SC10IN	35	60	10



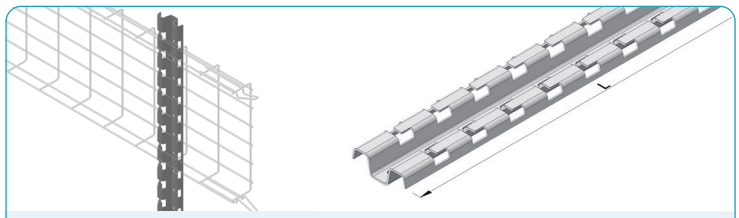
SG	ZF	IN 304	W (mm)	L (mm)
PSTSG	PSTZF	PSTIN	65	40



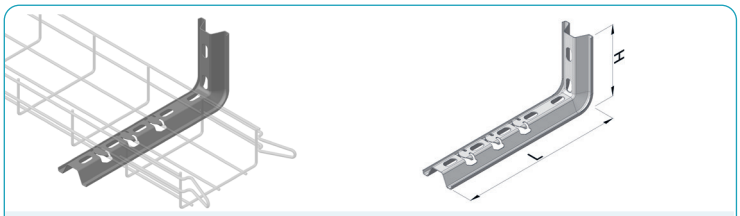
SG	HDG	IN 304	H (mm)	L (mm)
SE100SG	SE100HDG	SE100IN	86	141
SE150SG	SE150HDG	SE150IN	86	190
SE200SG	SE200HDG	SE200IN	86	241
SE300SG	SE300HDG	SE300IN	111	341
SE400SG	SE400HDG	SE400IN	121	441
SE500SG	SE500HDG	SE500IN	162	541
SE600SG	SE600HDG	SE600IN	159	641



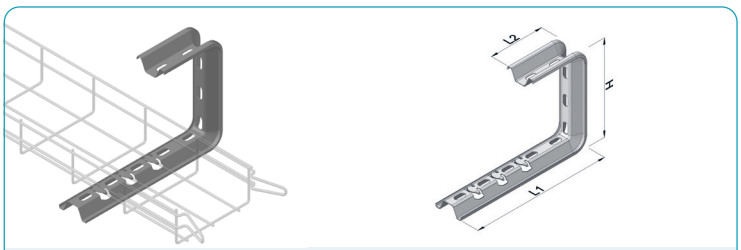
SG	HDG	IN 304	L (mm)
SOA10SG	SOA10HDG	SOA10IN	250
SOA15SG	SOA15HDG	SOA15IN	300
SOA20SG	SOA20HDG	SOA20IN	350
SOA30SG	SOA30HDG	SOA30IN	450
SOA40SG	SOA40HDG	SOA40IN	550
SOA50SG	SOA50HDG	SOA50IN	650
SOA60SG	SOA60HDG	SOA60IN	750



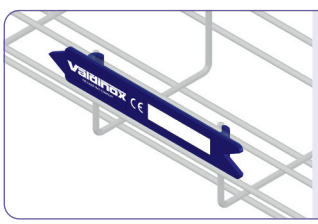
SG	HDG	IN 304	L (mm)
SOAL1SG	SOAL1HDG	SOAL1IN	1000
SOAL2SG	SOAL2HDG	SOAL2IN	2000
SOAL3SG	SOAL3HDG	SOAL3IN	2990



SG	HDG	IN 304	H (mm)	L (mm)
SOC10SG	SOC10HDG	SOC10IN	115	215
SOC15SG	SOC15HDG	SOC15IN	115	265
SOC20SG	SOC20HDG	SOC20IN	115	315
SOC30SG	SOC30HDG	SOC30IN	115	415
SOC40SG	SOC40HDG	SOC40IN	115	515

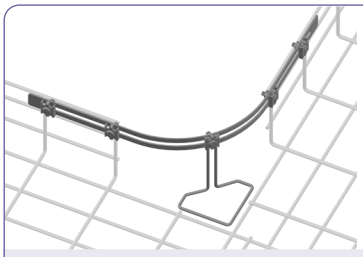


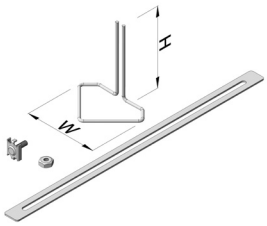
SG	HDG	IN 304	H (mm)	L1 (mm)	L2 (mm)
SOPC10SG	SOPC10HDG	SOPC10IN	180	215	115
SOPC15SG	SOPC15HDG	SOPC15IN	180	265	115
SOPC20SG	SOPC20HDG	SOPC20IN	180	315	115
SOPC30SG	SOPC30HDG	SOPC30IN	180	415	115



Ref.
PLASTIC TAG

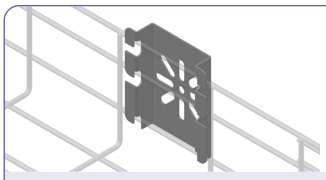
COATING | SG Pregalvanized | HDG Hot Dipped Galvanized | ZF Zink Flake coating | EZ Electroplated zinc + high resistance passivation | IN 304 Stainless Steel AISI 304

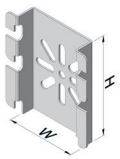




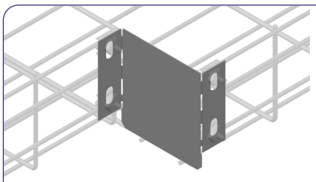
EZ	IN 304	H (mm)	W (mm)	L (mm)
Wire Base 100EZ	Wire Base 100IN	105	100	—
Wire Base 150EZ	Wire Base 150IN	150	100	—
JS500EZ	JS500IN	22	—	500
FASEZ	FASIN	—	23	20

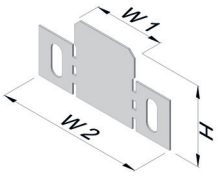
EZ	IN 304	FASEZ	JS500EZ	Wire Base
CFK100EZ	CFK100IN	5	1	1
CFK150EZ	CFK150IN	10	2	1



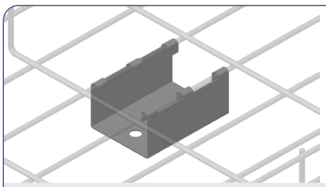


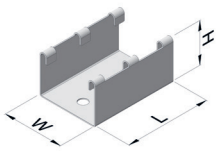
SG	ZF	IN 304	H (mm)	W (mm)
DB100SG	DB100ZF	DB100IN	95	66



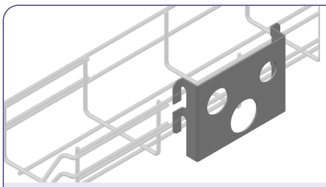


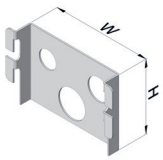
SG	ZF	IN 304	H (mm)	W1 (mm)	W2 (mm)
EP2.2.SG	EP2.2.ZF	EP2.2.IN	57,15	50,8	111,13
EP2.4.SG	EP2.4.ZF	EP2.4.IN	107,95	50,8	111,13
EP4.2.SG	EP4.2.ZF	EP4.2.IN	57,15	101,6	161,93
EP4.4.SG	EP4.4.ZF	EP4.4.IN	107,95	101,6	161,93



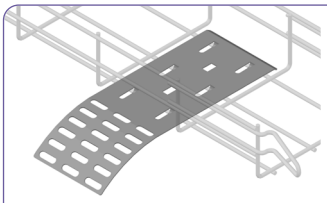


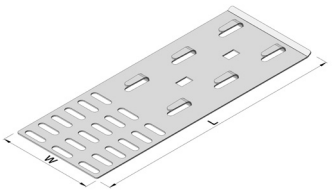
SG	ZF	IN 304	H (mm)	W (mm)	L (mm)
LFSSG	LFSZF	LFSIN	40	57	80



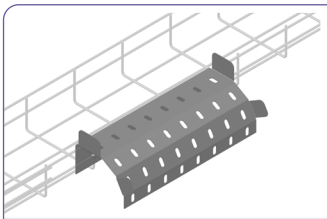


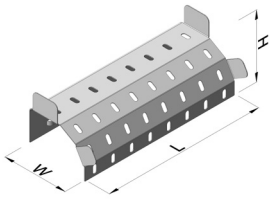
SG	ZF	IN 304	H (mm)	W (mm)
STSG	STZF	STIN	80	110



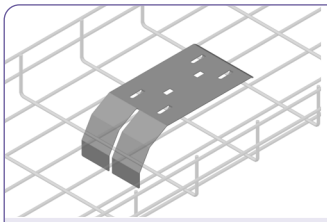


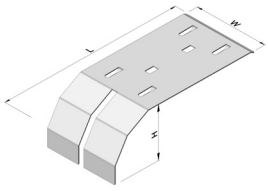
SG	EZ	ZF	IN 304	W (mm)	L (mm)
SCSG	SCEZ	SCZF	SCIN	87	230



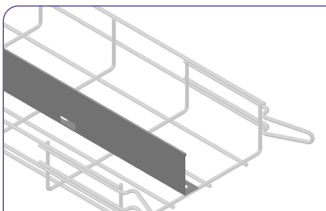


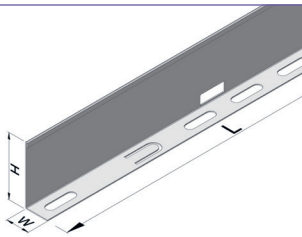
SG	IN 304	H (mm)	W (mm)	L (mm)
SCASG	SCAIN	68	102	275



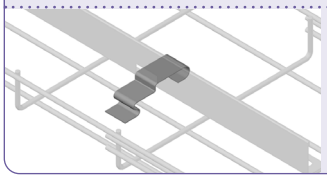


SG	IN 304	H (mm)	W (mm)	L (mm)
SCLMSG	SCLMIN	68	91	189

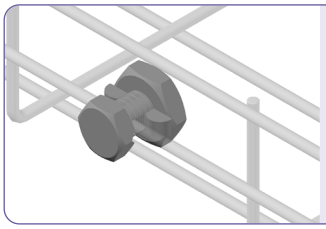




SG	HDG	IN 304	H (mm)	W (mm)	L (mm)
SEP30SG	SEP30HDG	SEP30IN	29	19	3000
SEP60SG	SEP60HDG	SEP60IN	50	19	3000
SEP100SG	SEP100HDG	SEP100IN	90	19	3000



SG	ZF	IN 304
CSEPSG	CSEPZF	CSEPIN

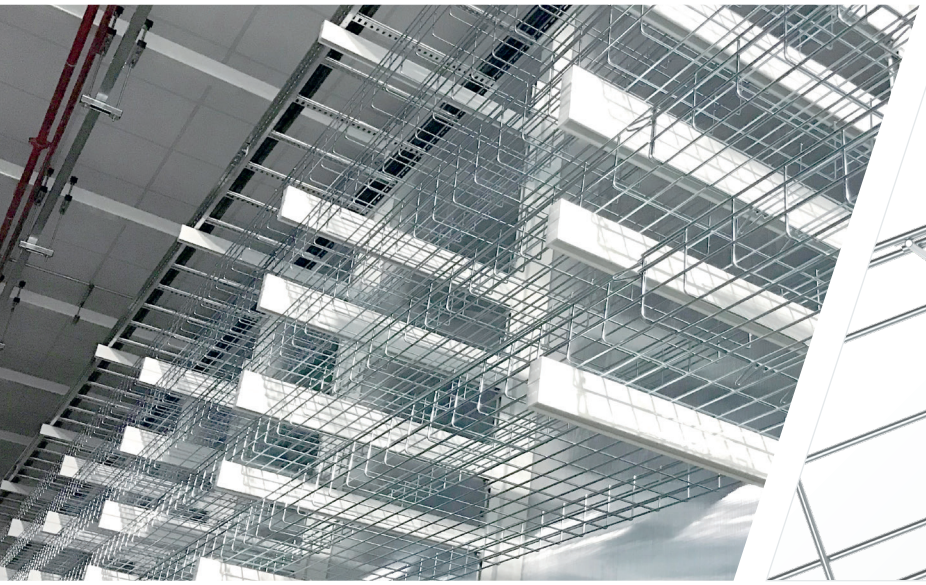


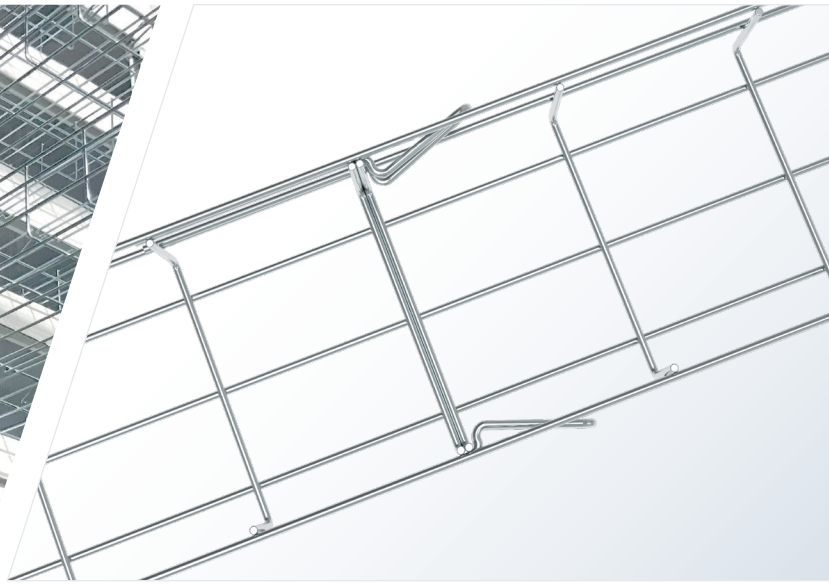
Ref.	
MAT	Brass

Diametre of earthing cable: 25mm
Available for larger cable diameters

Experience

VALDINOX supplies wire mesh trays for all types of projects around the world, guaranteeing quality and performance. We provide in-depth knowledge as a result of a 40 year industrial experience working alongside engineering firms, construction companies and installers.





Valdinox
THE CABLE TRAY COMPANY

FACTORY: Villanueva, 12 - San Mamés de Meruelo (39192) Cantabria, España
WAREHOUSE: Bº El Campo S/N - Meruelo (39192) Cantabria, España
Tel: (+34) 942 677 135 - (+34) 942 674 992
Fax: (+34) 942 637 901 - (+34) 942 677 020
Email: valdinox@valdinox.com - export@valdinox.com
www.valdinox.com