

**EASYCONNECT**®  
**BASKET TRAY**

## Resistance and Safety in 1 Click!



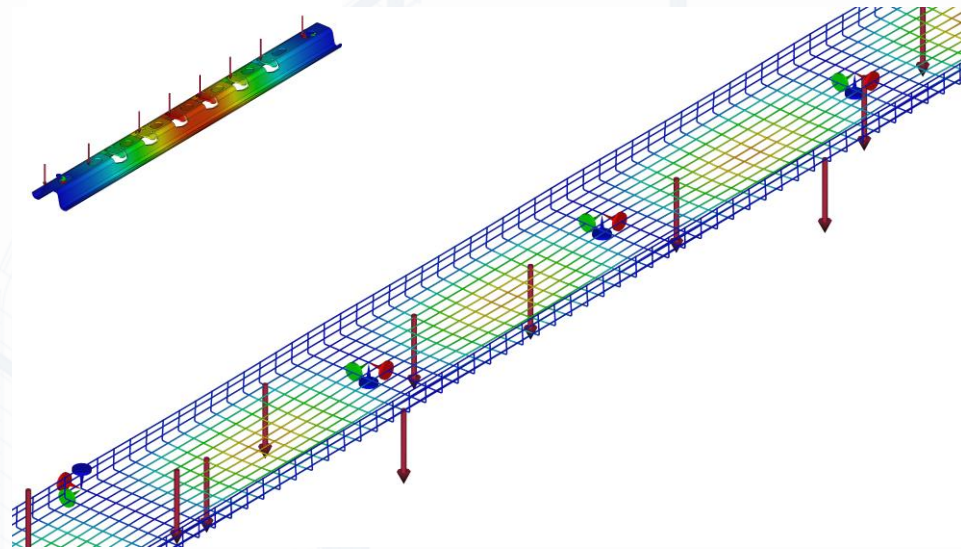
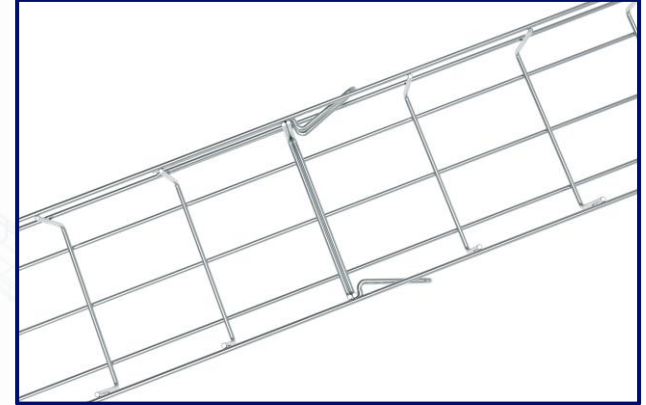
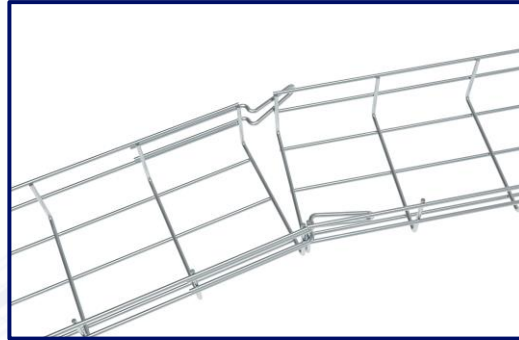
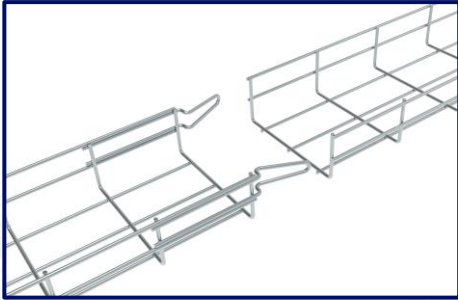
Patented integrated  
fixation system,

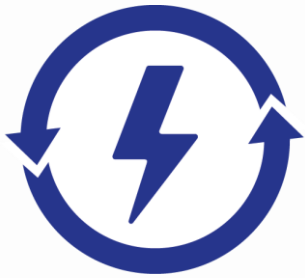
Reduce costs and time  
of installation,

Increase safety and  
lifespan.



**EASYCONNECT** is the result of the knowledge accumulated through more than 30 years of experience as manufacturers, and a basket tray design and tested according to international standards





## ELECTRICAL CONTINUITY GARANTEED.

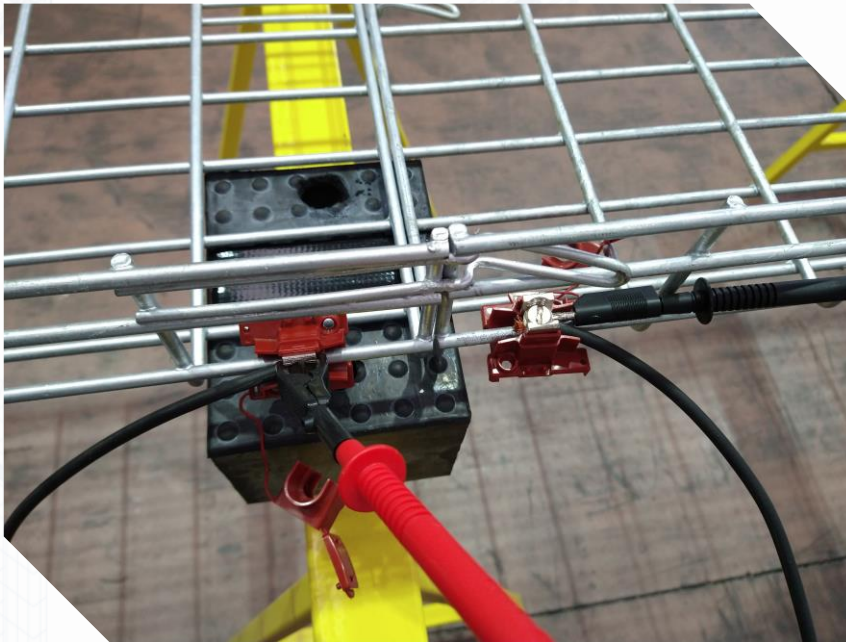
**IEC 61537**

– Tested by LABORATORIO CENTRAL DE ELECTROTECNIA AENOR

**NEMA VE 1-2017**

– Tested by DEPARTAMENTO DE INGENIERÍA ELÉCTRICA Y ENERGÉTICA

GRUPO DE TECNOLOGÍA DE LA EDIFICACIÓN, UNIVERSIDAD DE CANTABRIA



### EASYCONNECT WIRE MESH CABLE TRAYS

	EC100 range	EC60 range	EC30 range
Wire diameter $\emptyset$ (mm)	EC100.200 (4,3)	EC60.100 (3,9)	EC30.100 (3,9)
I (A)	25	25	26
V (mV)	0,058	0,084	0,08
<b>Z( mOhm)</b>	<b>2,32</b>	<b>3,36</b>	<b>3,08</b>

Impedance  $Z < 50$  mOhm through joints. System electrically conductor classified in accordance to IEC 61537.



HIGHEST RESISTANCE TO CORROSION.

Our basket trays are coated by highly specialized factories, complying with the most advanced technical and environmental safety measures.

EZ

### EZ: ELECTROLYTIC ZINC PLATING

Post coating: Passivation with trivalent chromium salts (Cr<sup>3+</sup>) Corrotr  
ATOTECH

According to standards:

- ISO 2081
- EN 112050 and ISO 4520.
- European directives 2011/65/EU (RoHS) and subsequent modifications

**Zinc coating thickness: Minimum 12µm. Average 14µm**

Classified 2 in accordance with IEC 61537

Results Salt spray tests according to UNE-EN ISO 9227: 195

HDG

### HDG: HOT DIP GALVANIZED (DISCONTINUOUS HOT

Anticorrosive coating obtained by dipping in cast zinc at 450 °, pr  
plating for polishing

According to standards:

- ISO 1461 and EN 1179.
- European directives 2011/65/EU (RoHS) and subsequent modifications

**Zinc coating thickness: Minimum 85 µm - Average 150 µm**

Classified 8 according to standard IEC 61537.

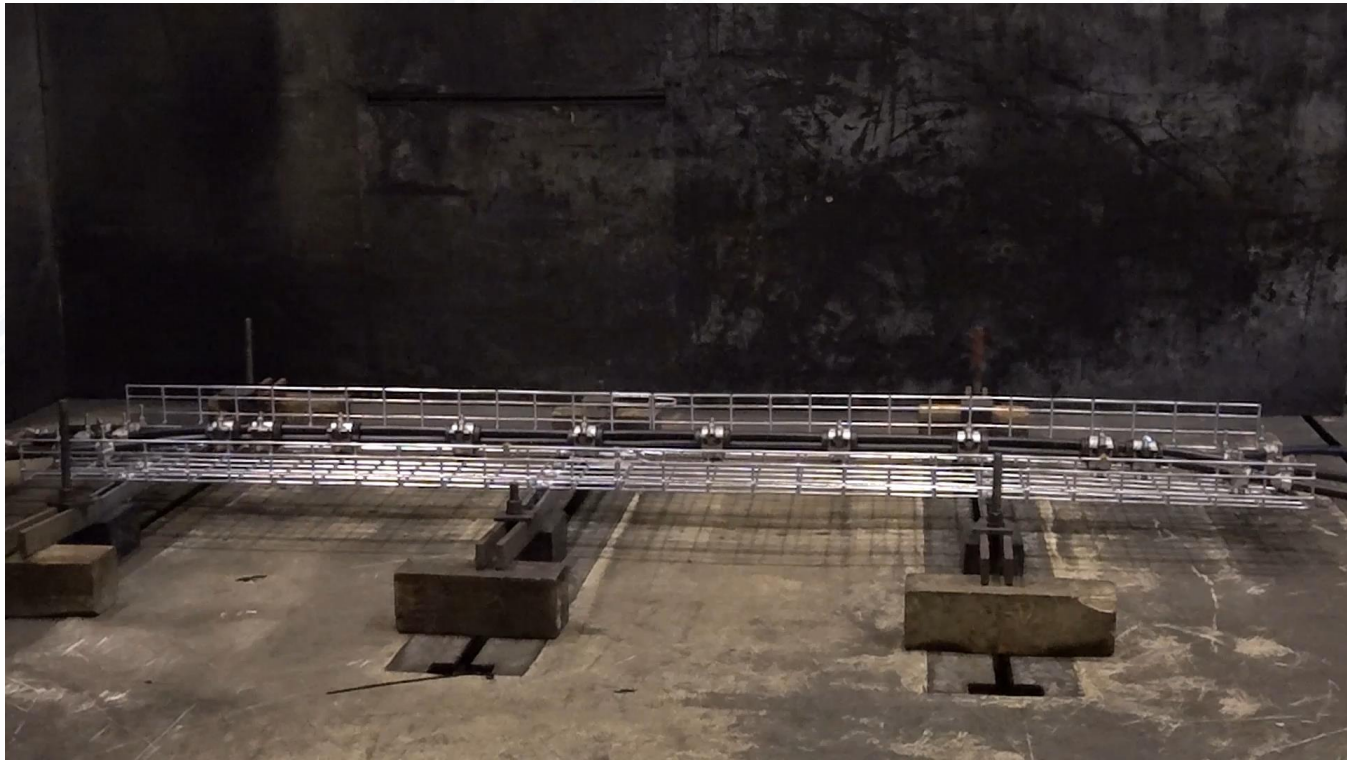
Note: The ISO 9227 salt spray test does not apply. The resistance is measured according to the thickness of the coating.





## RESISTANT TO SHORT CIRCUITS.

The only basket cable tray that has successfully passed this test according to nuclear industry standards resisting a **shortcircuit of 158 kA**





FIRE RESISTANT during 90min at 1.000°C.

Tested by TECNALIA on their own labs accredited by EGOLF - "European Group of Organisations for Fire Testing, Inspection and Certification". -  
**Standard DIN 4102-12 - Informe # 14\_07496**





## SEISMIC RESISTANCE TEST

Tested according to standard **IEC 60980: 1989 Recommended practices for seismic qualification of electrical equipment of the safety system for nuclear generating stations.**  
**Certificado nº 182737**

**Test carried out on a EASYCONNECT basket tray system loaded with 1.000 kg**

The Only fast-assembling basket trays resistant to earthquakes!

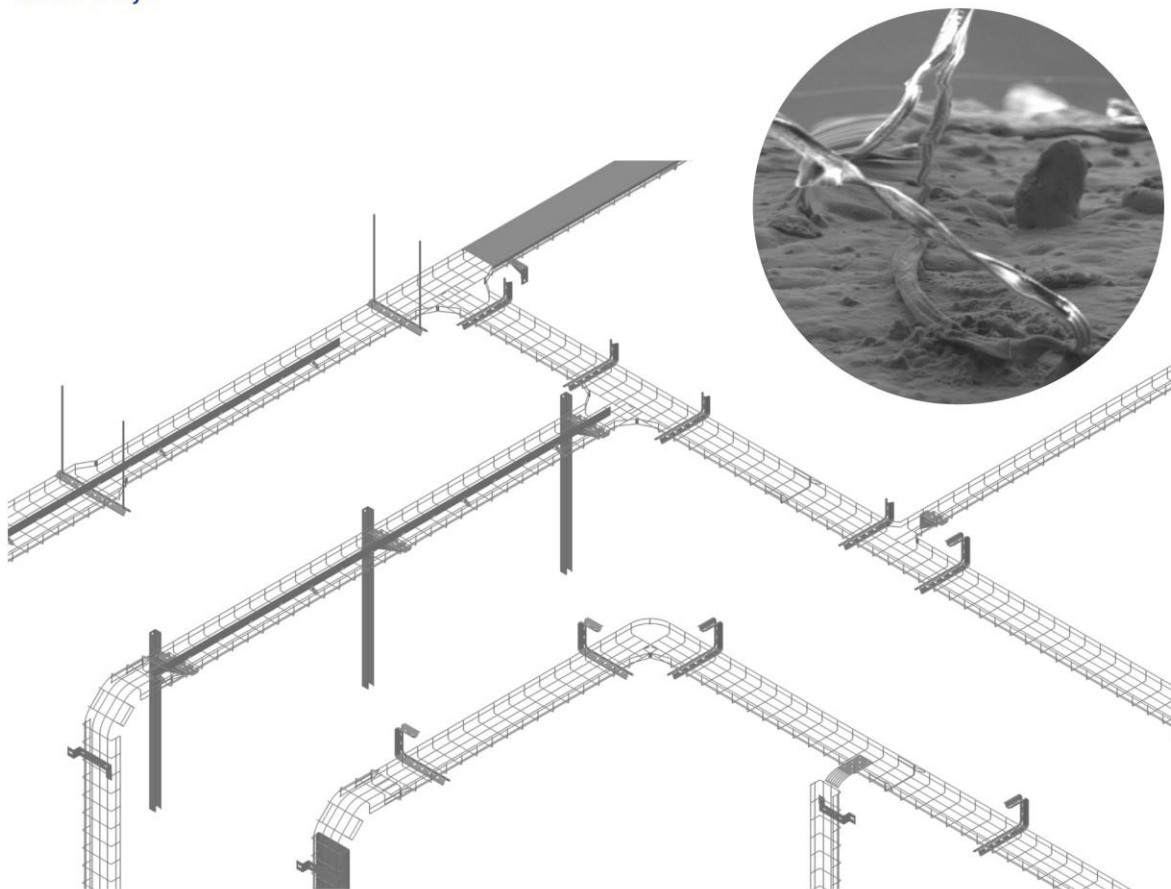




## R+D Projects

Is there any «zink whisker free» corrosion protection coating?

Latest research project lead by VALDINOX compare all types of corrosion coatings for cable trays



VALDINOX started this research in 2019 after meeting for a project regarding Data Centres. That meeting inspired us to lead this pioneer research project in the aim of giving light to a phenomenon that concerns integrity of electronic equipment and matches our goals for innovation on cable trays.

This research is particularly relevant in this moment, when highest levels of Safety are a must on Data Centres, and low-cost alternative coatings to HDG are claiming to be “whisker free” coatings.

Although this phenomenon was only described from a theoretical point of view and there was no evidence neither about the risk of electronic failure caused by a Zink whisker nor any standardized methodology to measure such risk, we decided to start a research on this real phenomenon that concerns Data Centres and every installation with an ever-increasing presence of all sort of micro-electronic equipment's.

VALDINOX lead the R&D group from the Technical School of Civil Engineers, Canals and Ports of Santander at the University of Cantabria who had previously worked on zinc coatings for structural steels. This research group is in charge of LADICIM, an accredited Laboratory of the Division of Materials Science and Engineering.

The full paper has been published as part of the Special Issue “*Corrosion and Protection of Metallic Materials in Extreme Environments*” at MDPI Scientific Open Access Journal: <https://www.mdpi.com/2075-4701/11/2/325>

[Click here to download our summary report of this Research Project.](#)

**VALDINOX** was the first Spanish manufacturer of wire mesh cable trays. Since 1982 we have manufactured for renowned European brands, until in 2012 we patented

**EASYCONNECT®**, a unique system that has proven its reliability and unbeatable advantages in critical infrastructures such as Data Centers, Nuclear Plants, Photovoltaic Plants, Scientific Facilities, Airports and Hospitals, among others.



# valdinox

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