Valdinox

THE CABLE TRAY COMPANY

Technical Datasheet

EC60 EASYCONNECT

Wire Mesh Cable Tray

EASYCONNECT®

BASKET TRAY

Contents

1. General Characteristics

Product references: **EC60.060; EC60.100; EC60.150; EC60.200; EC60.300; EC60.400; EC60.500; EC60.600**

Definition: **Wire mesh basket cable tray made of welded steel wire mesh**

Materials:

Steel C9D UNE-EN ISO 16120-2

- Tensile Strength: 79,4 Kg/ mm²
- Yield Strength: 71,4 Kg/ mm²

Stainless Steel AISI 304 and 316L

- Tensile Strength: 79,3 Kg/ mm²
- Yield Strength: 71,3 Kg/ mm²

EASY installation: No fittings or accessories needed to assemble tray sections.

SAFE manipulation: Rounded wire ends.

Length of section: 3.000 mm

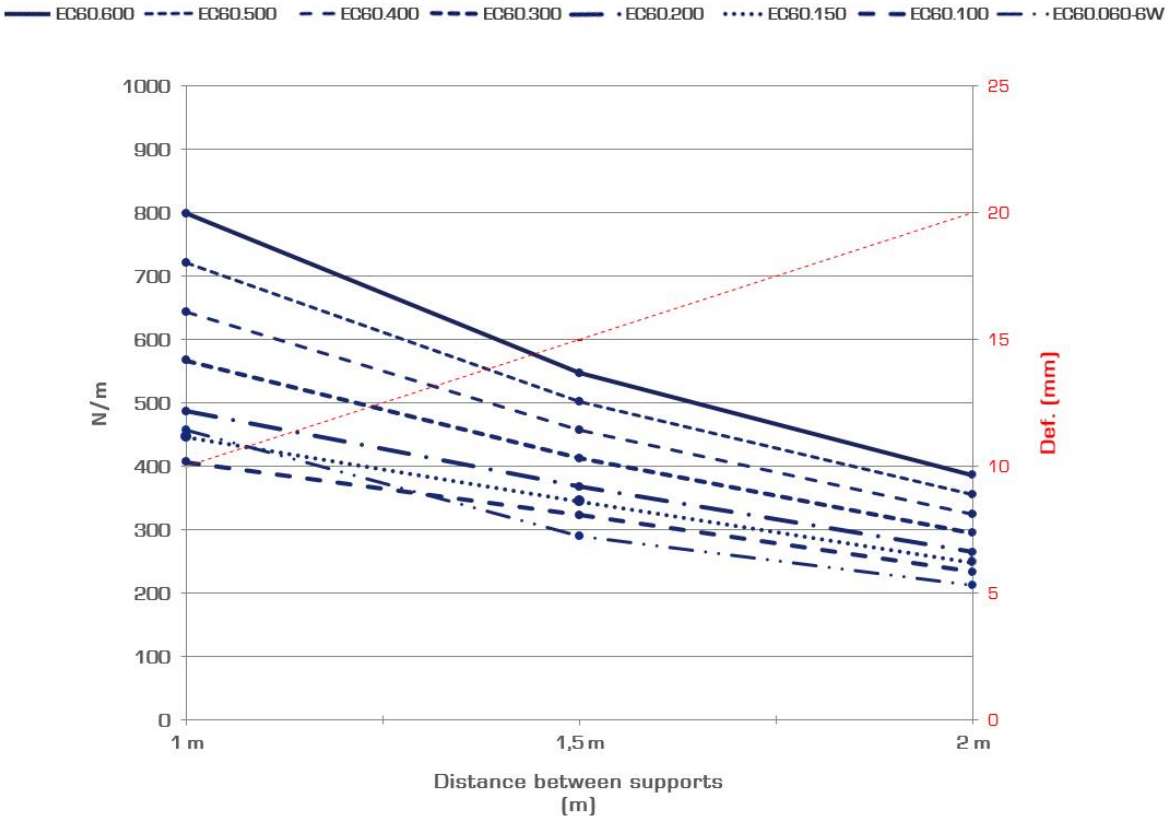
Packaging: Pallets are plastic wrapped, sides are protected with cardboard sheets marked VALDINOX and strapped.

Ref. Code	H (mm)	W (mm)	Wire Ø (mm)	S_m (mm²)	S_u (cm²)	Weight (Kg/m)	SWL(*) (N/m)
EC60.060EZ	55	66	3,9	47,78	25,75	0,560	290
EC60.100EZ	60	102	3,9	71,67	48,47	0,770	323
EC60.150EZ	60	152	3,9	83,62	76,52	0,935	345
EC60.200EZ	60	202	3,9	95,57	104,57	1,070	368
EC60.300EZ	60	302	4,3	145,22	158,63	1,640	413
EC60.400EZ	60	402	4,3/4,8	174,26	211,86	2,200	457
EC60.500EZ	60	502	4,6/4,8	232,67	266,73	2,800	502
EC60.600EZ	60	602	4,6/4,8	265,90	321,93	3,200	547
EC60.060HDG	55	66	3,9	47,78	25,75	0,600	290
EC60.100HDG	60	102	3,9	71,67	48,47	0,860	323
EC60.150HDG	60	152	3,9	83,62	76,52	1,020	345
EC60.200HDG	60	202	3,9	95,57	104,57	1,200	368
EC60.300HDG	60	302	4,3	145,22	158,63	1,820	413
EC60.400HDG	60	402	4,3/4,8	174,26	211,86	2,380	457
EC60.500HDG	60	502	4,6/4,8	232,67	266,73	3,080	502
EC60.600HDG	60	602	4,6/4,8	265,90	321,93	3,560	547
EC60.060IN	55	66	4	50,28	25,50	0,640	290
EC60.100IN	60	102	4	75,42	48,16	0,840	323
EC60.150IN	60	152	4	87,99	76,16	0,970	345
EC60.200IN	60	202	4	100,56	104,16	1,140	368
EC60.300IN	60	302	4,4	152,05	158,13	1,740	413
EC60.400IN	60	402	4,4/4,8	182,46	211,75	2,100	457
EC60.500IN	60	502	4,4/4,8	212,87	266,95	2,460	502
EC60.600IN	60	602	4,4/4,8	243,28	322,15	2,830	547

H (mm): External height
W (mm): External width.
L (m): Length of tray section.
Wire Ø (mm): Diameter of wires
SM (mm2): Cross-sectional area of metal = (n x long. wires) x (π x (Ø/2)2)
SU (cm2): Cross Section = ((H - wire Ø) x (W - wires Ø)) / 100
SWL: Safe Working Load according to test method IEC 61537. Span 1,5 m. **(*)** See chapter 2.

Symbol	Coating Type
	**EZ: ZINC PLATED STEEL** ELECTRO ZINC plating according to ISO 2081 standard followed by passivation with trivalent chrome salts (Cr3+) according to UNE 112050 and ISO 4520 standards. According to European Directives 2002/95/CE (RoHS) and posterior modifications. Thickness of Zinc coating: minimum 8µ. Average. 11µ Classified 2 according to IEC 61537 - UNE-EN ISO 9227:2012 Salt spray test
	**HDG: HOT DIP GALVANIZED** Hot Dip Galvanized coating according to ISO 1461. Anticorrosive coating obtained by dipping into cast zinc at 450°, roll forming and chromating for polishing. Thickness of Zinc coating: Min. 85µ - Av. 100µ Classified 8 according to IEC 61537
 	**IN: STAINLESS STEEL AISI 304L & 316L** Austenitic Stainless Steel, chromium, nickel and molybdenum alloy. Type L-ACX 240 Low carbon. Passivated steel: Chemical removal of all particles and contaminants that may have been stuck in the manufacturing process. This process is carried out giving highest protection against corrosion. Classification 9D according IEC 61537

2. Safe Working Load Capacity (SWL)



Load uniformly distributed along the tray.

—First support (L) = 1,5m

—Distance between supports = 1,5m

—Distance between tray connection and support = 500mm

—Longitudinal Deflection (1% of L) = 0,015 m

(*) The SWL (Safe Working Load) detailed on this document are certified by the IECEE CB Scheme Certificate nº CBES1947-A1.
The working loads are the result of performing the tests without using any accessory (i.e. covers) that detract deflection and as a result will throw higher work loads.

3. Classification according to IEC 61537

Material: **Metallic**

Resistance to Flame propagation: **Non-Flame propagation**

Electrical Continuity: **With electrical continuity**

Electrical conductivity: **With electrical conductivity characteristics**

Resistance Against Corrosion: **EZ – Class 2 / HDG - Class 8 / IN – Class 9D**

Minimum Temperature: **-50ºC** / Maximum Temperature: **+150ºC**

Perforation in the base Area: **Class D >30%**

Impact Resistance: **up to 50J**

4. Test Results

IEC 61537 Electrical Continuity	Result
Measured between 2 points placed at 500 mm on one tray section. Limit allowed: < 5 mΩ/m	4,49 mΩ/m
Measured between 2 points placed at 50mm distance of the joint point of 2 tray sections Limit allowed: < 50 mΩ	4,91mΩ
IEC 61537 Safe Working Load	**Result**
According to IEC 61537-test method. Distance between supports 1,5 m.	See Chapter 1
DIN 4102-12 Fire Resistance	**Result**
90 minutes at 1.000ºC.	E90
IEC 61914 Shortcut Circuit	**Result**
Test performed on normal ambient conditions. Installation of trays following IEC 61537 standard for SWL Type 2 tests. Peak Current (kA)	104,96 kA

5. EU Directives

VALDINOX complies with the following directives:

- **Directive 2014/35/UE LVD (Low voltage Directive)**
- **Directive 2004/108CE EMC (Electromagnetic compatibility)**

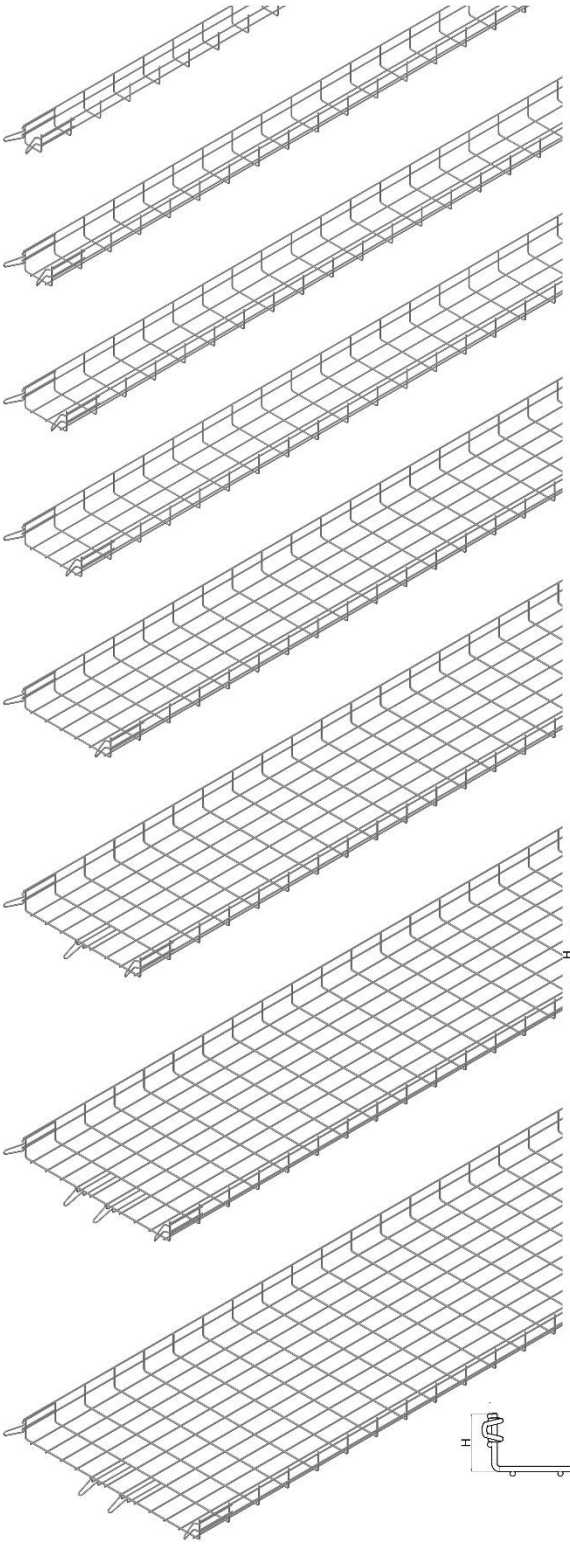
The cable trays are passive products, in normal use with respect to electromagnetic influences the emission and immunity.

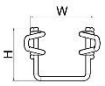
Cable management systems, are by definition a passive element, are not affected by this directive. However, properly connected to the ground network, the metal cable carrier system contributes positively to the EMC correct installation.

VALDINOX recommends grounding clamps shall be placed each 12 metres or 4 tray sections.

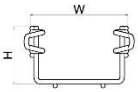
- **Directive 2002/95/CE RoHS**. Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment.
- **Directive 2002/96/CE WEEE**. Directive on waste electrical and electronic equipment.

6. Drawings

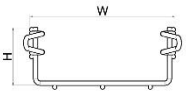




EC60.060

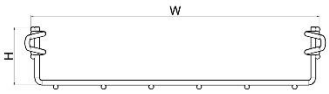


EC60.100

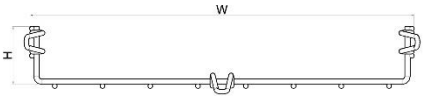


EC60.150

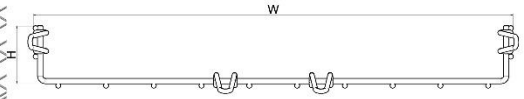
EC60.200



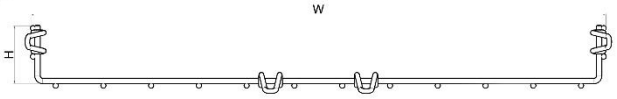
EC60.300



EC60.400



EC60.500



EC60.600

DECLARATION OF COMPLIANCE

CE

EASYCONNECT cable trays

Manufacturer: VALDINOX S.L. Bº Villanueva 12, San Mamés de Meruelo, CP 39192 Cantabria. SPAIN

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Object of the declaration: EASYCONNECT Cable trays made of electro welded steel wire mesh.

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

- **2014/35/UE (Low Voltage Directive)**

And it is suitable and safe for the intended use and it is in conformity with the following harmonised standards and technical specifications:

- UNE EN 61537:2007. Cable management - Cable tray systems and cable ladder systems.
- RoHS 2002/95/CE Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment.
- WEEE 2002/96/CE Directive on waste electrical and electronic equipment.

Additional information:

The products have been constructed in accordance with good engineering practice in safety matters in force in the Union, it does not endanger the health and safety of persons and domestic animals, or property, when properly installed and maintained and used in applications for which it is made.

This product is intended to be installed and maintained by skilled persons; ordinary persons may use it only as a replacement part, to substitute for an identical device.

Place: San Mamés de Meruelo, Cantabria España.

Signature and Position: Pedro Valdés, Technical Department.