



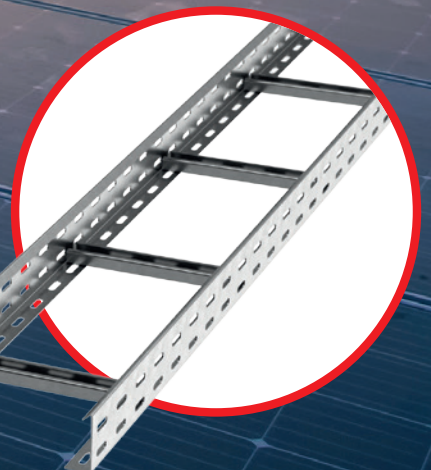
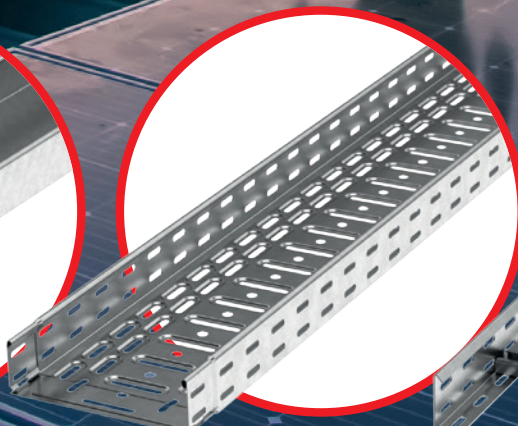
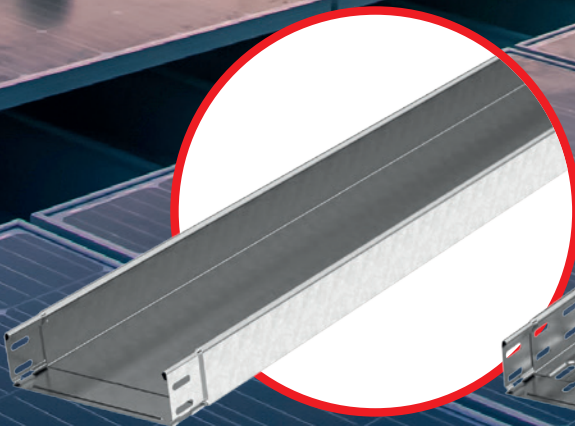
KOPOS

SMART SURFACE PROTECTION OF CABLE SUPPORTING SYSTEMS

ZN

AL

MG



WHAT ARE THE PRODUCTS MADE OF?

The products are made of sheet metal with a protective treatment composed of zinc, magnesium and aluminium. Protective layer is applied to the cold-rolled sheet in a continuous hot-dip galvanizing process. Compared to conventional galvanizing, the molten zinc bath is supplemented with magnesium and aluminium and this composition causes an exceptional surface treatment. The material used for the products is with a protective thickness of layer of 18-31 µm (ZM310 according to EN 10346). This layer, according to all tests and experience demonstrates higher protection of the material even than the products subsequently hot-dip galvanized with a thickness of 85 µm zinc.



SUITABLE FOR?

Products with ZM surface treatment can be used in environments with corrosion aggressiveness C1-C4. According to the standard ISO 12944-2, the treatment meets the requirements for use in C5 environments. Excellent use of the products is for cable routing around solar installations, where this material is already widely used for the structural elements of the solar systems.

The advantages of the surface treatment have long been used for e.g. the production of metal roofs, and road safety barriers. Thanks to its excellent resistance in high chloride environments and ammonia, the treatment has found its use in agriculture, e.g. for vine columns, greenhouses, silos or structures in animal houses...



WHAT ABOUT THE CUTS AND HOLES?

The surface treatment has the so-called self-repairing ability, where apart from the usual cathodic protection against corrosion, also magnesium and zinc create a protective film on the cutting edge. Duration of the protection is influenced by the external environment, red rust may appear on the cutting edge, but the protection process has been activated and the cutting point will be coated with a protective layer over time, the protective treatment will be applied and any red rust will gradually disappear.



FOR THOSE WHO THINK ABOUT OUR PLANET

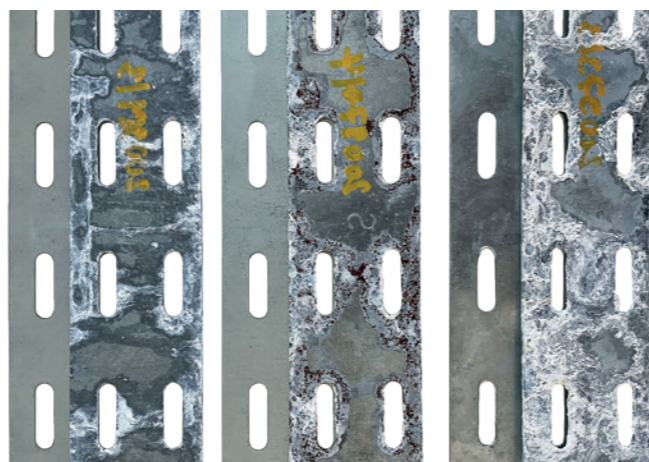
Compared to products subsequently hot-dip galvanised, ZM surface treatment is more environmentally friendly. The production process is free from transporting the product to and from the hot-dip galvanizing plant, because the products are made of the sheet metal with a finished surface treatment. And another environmental advantage is less, slower loss of the protective layer, compared to the thicker layer on products subsequently hot-dip galvanised, thus reducing the leakage of zinc into the soil.

WHO DO NOT BELIEVE, CAN CHECK IT OUT

The finish has already been through a lot of tests in corrosion chambers or long-term exposure to various weathering conditions, everywhere it has demonstrated incredible durability compared to other metallic coatings. Nevertheless, we have made our products with different bends, cuts and perforations, we had them tested in a salt chamber with the NSS neutral salt spray test according to EN ISO 9227:2023.

After 720 hours with no sign of surface change, we terminated the test, the material is really durable and can be used to replace products subsequently hot-dip galvanized. For products subsequently hot-dip galvanized, corrosion occurs between 300-600 hours for the same type of test.

product samples before the test and during the salt spray test



ZM - Continuous galvanizing with magnesium and aluminum admixture S - Pre-Galvanized F - Hot Dip Galvanized



ASSORTMENT OVERVIEW

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CABLE TRAY COVER

- V 50_ZM
- V 100_ZM
- V 200_ZM
- V 300_ZM
- V 400_ZM
- V 500_ZM

LOW ELBOW 90° COVER

- VKO 90X60X50_ZM
- VKO 90X60X100_ZM
- VKO 90X60X200_ZM
- VKO 90X60X300_ZM

RISING ELBOW 90°

- SO 90X60X50_ZM
- SO 90X60X100_ZM
- SO 90X60X200_ZM
- SO 90X60X300_ZM

RISING ELBOW 90° COVER

- VSO 90X50_ZM
- VSO 90X100_ZM
- VSO 90X200_ZM
- VSO 90X300_ZM

HORIZONTAL BRANCH COVER

- VOH 50_ZM
- VOH 100_ZM
- VOH 200_ZM
- VOH 300_ZM

CABLE TRAY WITH INTEGRATED COUPLING

- KZI 60X50X0.75_ZM
- KZI 60X100X0.75_ZM
- KZI 60X200X0.75_ZM
- KZI 60X300X0.75_ZM
- KZI 60X400X1.00_ZM
- KZI 60X500X1.00_ZM

ELBOW 90°

- O 90X60X50_ZM
- O 90X60X100_ZM
- O 90X60X200_ZM
- O 90X60X300_ZM
- O 90X60X400_ZM

COUPLING

- S 60X200_ZM
- S 110X200_ZM

ELBOW COVER 90°

- VO 90X50_ZM
- VO 90X100_ZM
- VO 90X200_ZM
- VO 90X300_ZM
- VO 90X400_ZM

CABLE TRAY WITH INTEGRATED COUPLING - NON-PERFORATED

- KZIN 60X50X0.75_ZM
- KZIN 60X100X0.75_ZM
- KZIN 60X200X0.75_ZM
- KZIN 60X300X0.75_ZM
- KZIN 60X400X1.00_ZM
- KZIN 60X500X1.00_ZM

REDUCTION PIECE

- SU 60_ZM

LOW ELBOW 90°

- KO 90X60X50_ZM
- KO 90X60X100_ZM
- KO 90X60X200_ZM
- KO 90X60X300_ZM

ANGLE COUPLING

- SSU 60_ZM
- SSU 110_ZM

HINGED JOINT

- SK 60_ZM
- SK 110_ZM

HORIZONTAL SIDE COUPLING

- BSKH 60 D_ZM
- BSKH 60 K_ZM
- BSKH 110 D_ZM
- BSKH 110 K_ZM

CABLE LADDER

- | | |
|--------------|---------------|
| KL 60X200_ZM | KL 110X200_ZM |
| KL 60X300_ZM | KL 110X300_ZM |
| KL 60X400_ZM | KL 110X400_ZM |
| KL 60X500_ZM | KL 110X500_ZM |
| KL 60X600_ZM | KL 110X600_ZM |



MORE INFORMATION
AND THE WHOLE RANGE



PERFECTLY
HIDDEN ENERGY

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