



ULTRA GALVA BY TRAYCO®

ULTRA PROTECTION
AGAINST CORROSION



ECONOMIC



LONGER LIFE SPAN



ECOLOGIC



SMOOTH AND
STRAIGHT FINISHING



More information on
www.trayco.eu

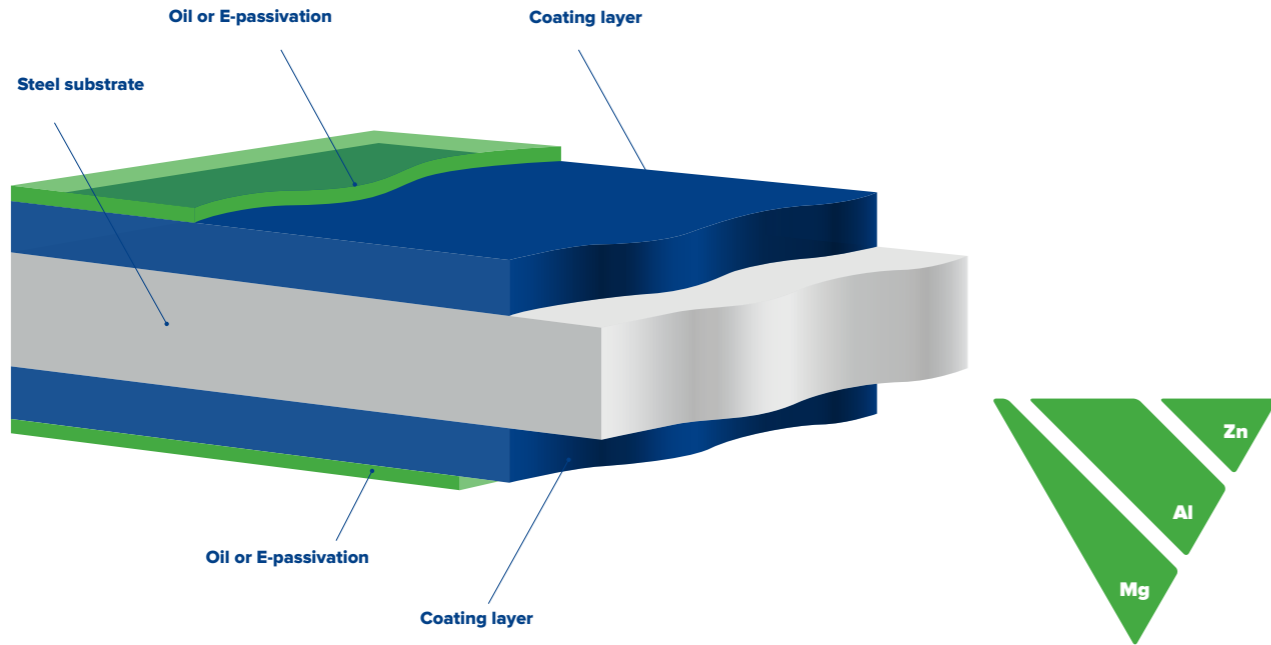
Trayco®
MASTERS IN
CABLE MANAGEMENT

WHAT IS ULTRA GALVA

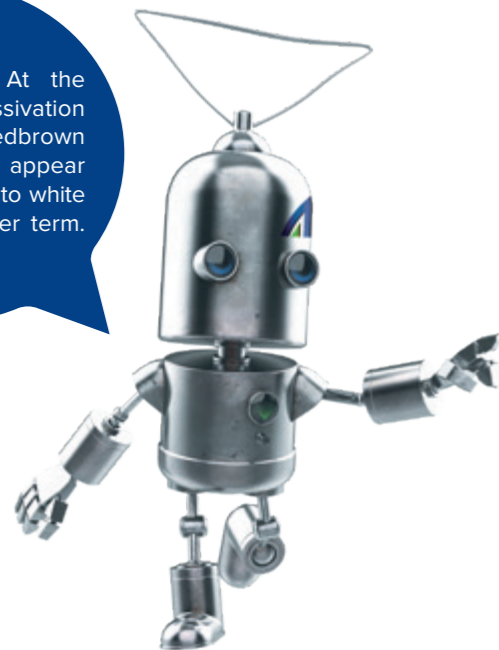
ULTRA GALVA is a high-performant metallic coating which offers an optimum surface protection in a wide variety of aggressive and demanding environments, indoor as well as outdoor.

HOW IT WORKS?

The unique alloy of small amounts of magnesium and / or aluminum in the zinc bath provides ULTRA protection with a self-healing effect. Whilst zinc is essential for cathodic protection, magnesium prevents red rust. The passivation layer that comes on top, creates a seal that slows down the first traces of white rust. *



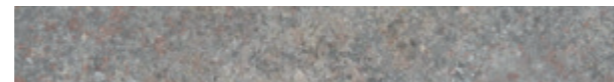
*** Important:** At the start of the passivation process, a redbrown rust colour may appear which will turn into white rust at the longer term.



Initial exposure period (up to several weeks)
The exposed cut end of the substrate is oxidised and forms red rust.



Subjected to rain and condensation (beyond several weeks)
The zinc-based film containing magnesium on the coating layer migrates over the cut end.



Long exposure period (after more than a year)
Disappearing of red rust and increasing of white rust.



CORROSION PERFORMANCE

Harsh environments such as heavy industry and infrastructure demand a highly performant solution. ULTRA GALVA is the answer, it is a valuable alternative to the traditional stainless steel and hot dip finishing.

1 Up to class 5 corrosion*

ULTRA GALVA provides one of the highest levels of corrosion protection, this is in line with the guidelines of EN 10143 and EN ISO 12944.

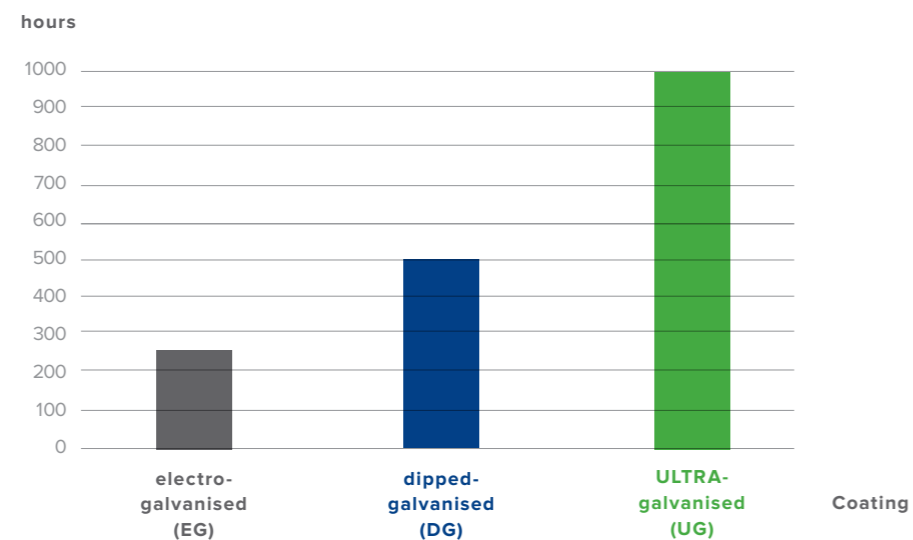
Corrosion-Class /	Atmospheric Corrosion /	Indoor Environment /	Outdoor Environment /	Surface treatments /
C1	< 0,1µm	Heated buildings with neutral atmospheres: offices, shops, schools, hotels.		Electro-galvanised (EG) EN ISO 2081
C2	0,1 - 0,7µm	Unheated buildings where condensation may occur: sports halls, warehouses, shops.	Rural areas. Atmosphere with low impurities.	Pre-galvanised (PG) EN 10327 – EN 10143
C3	0,7 - 2µm	Production facilities with high moisture levels and some air impurities due to industrial processes: production plants.	City and industrial atmosphere, some impurities, coastal areas with low salt loads.	Dipped-galvanised (DG) ULTRA GALVA EN ISO 1461
C4	2 - 4µm	Production facilities with high moisture levels and high air impurities due to industrial processes: swimming pools, Chemical industry.	Industrial areas and coastal areas with low salt load.	Dipped-galvanised (DG) ULTRA GALVA EN ISO 1461 Polyester coating (CO) EN ISO 12944
C5-I	4 - 8µm	Polyester coating (CO)	Industrial areas with high moisture level and aggressive atmosphere.	Duplex (DU) (Dipped galvanised + Polyester coating) ULTRA GALVA Stainless steel AISI 316L
C5-M	4 - 8µm	EN ISO 12944	Coastal or offshore areas with salt load.	Duplex (DU) (Dipped galvanised + Polyester coating) ULTRA GALVA

*** CORROSION CLASSES:** Depending on the atmospheric conditions in which our systems are installed, the expected wear life can be determined. The correct definition of the corrosion characteristics of this environment is therefore of great importance as the basis for determining the appropriate surface pre-treatment. To that end, several different corrosion classes were formulated as per BSK99. A list of the different corrosion classes can be found in the table above. Also mentioned, next to each class, is the surface pre-treatment recommended by Trayco.

2 Neutral salt spray test

ULTRA GALVA can outperform the traditional sendzimir galvanisation by approximately three to four times, avoiding the commonly known hot-dip disadvantages.

Time until red rust in salt spray



Dipped-galvanised tray after 1.000 hours salt spray test (DG)



ULTRA GALVA mesh after 1.000 hours (UG)

BENEFITS

ULTRA GALVA is the ultimate innovative surface finishing, offering a number of advantages compared to the traditional hot dip finishing.



ULTRA technical

The passivation layer offers a superior protection level. Hence, ULTRA GALVA, being cathodical, is self-healing in case of scratches, edges or perforations. Compared to hot dip, the products remain very straight, no deflections appear nor flux or dull spots/ashes.



ULTRA economical

Thanks to the longer life span, ULTRA GALVA does not require ongoing maintenance nor post painting actions. The short lead times are on top key to meet up with construction deadlines.



ULTRA safe

ULTRA GALVA can conveniently be cold-processed without any risk on flakes because of the perfect adhesion of the coating to the metal. No zink pins appear which enables one to install cables in a fast way avoiding any risk on damages to cables nor injuries of workers.



ULTRA environmental

Three times less zinc is being applied compared to hot dip finishing. There is hence a lower impact on natural resources as well as less pollution. On top, its production process generates less CO2 emission and ULTRA GALVA is 100% recyclable. A very valuable environmentally friendly alternative !




ULTRA GALVA is offering a severe protection in harsh and aggressive circumstances such as **desert environments**, the **chloridic and acid environment of stables**, **continuous tropical humidity** in greenhouses, **salty maritime applications** and high levels of **CO2 emissions**.




 **SOLAR**



 **AGRICULTURE**



 **CONSTRUCTION/INFRASTRUCTURE**



 **MARITIME**




 **INDUSTRY**

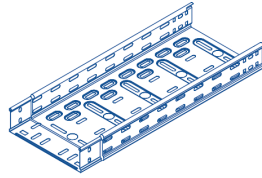


 **HORTICULTURE**

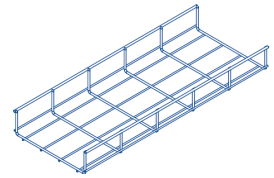


 **HVAC/AIRCO**

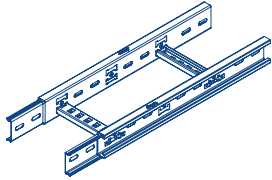
Trayco[®] product range



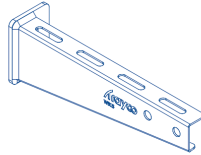
CT • CABLE TRAYS



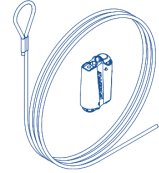
MT • MESH TRAYS



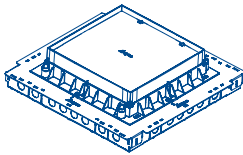
CL • CABLE LADDERS



MS • MOUNTING SYSTEMS



WM • WIRE MOUNTING



FS • FLOOR SYSTEMS



FR • FIRE RESISTANT



TAILOR MADE

Finishing

PG PRE GALVANIZED

DC HOT DIP

EG ELECTRO GALVANIZED

UG ULTRA GALVA

DU DUPLEX

SS STAINLESS STEEL

CO POLYESTER COATING



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