

Differentially Zinc Coated Galvanized Steel

General Description

UNICOIL Developed Differentially Zinc coated Galvanized Steel for Cost-Effective Applications

"Differentially zinc coated galvanized steel" is a specialized coated steel product with zinc layers of varied zinc coating mass on each side (top and bottom). Usually, higher zinc coating mass is given on the top side or weathering side and lower zinc coating mass on the bottom side. This product, when used correctly, offers same corrosion resistance at reduced total zinc coating mass, thus offering cost advantage, without scarifying the expected performance. For more details and for advice on applications, please contact UNICOIL sales engineer.

The differential zinc coating is represented as below, as an example

60gsm minimum on top surface and 30gsm minimum on bottom surface (90gsm total on both sides) – expected to give a performance equal to conventionally specified G40 coating (120gsm total on both sides).

Galvanized Steel Sheet Specifications

Specification No.	Description	Grades
SASO-ASTM A653/A653M	Standard Specification for Steel Sheet, Zinc Coated (Galvanized) or Zinc Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process	CS-Type A,B,C FS Type A,B, SS33, SS37, SS40, SS50, SS55, SS60 & SS80
ASTM A653/ A653M	Standard Specification for Steel Sheet, Zinc Coated (Galvanized) or Zinc Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process	
EN 10346	Continuously hot-dip coated steel flat products for cold forming – Technical delivery conditions	DX51D, DX52D, S220GD, S250GD, S280GD, S320GD, S350GD, S390GD, S420GD & S550GD
JIS G 3302	Hot-Dip Zinc-Coated steel sheet and strip	SGCC, SGCD1, SGC340, S GC400, SGC440 & SGC570
AS 1397	Continuous Hot-Dip Metallic coated steel sheet and Strip-Coatings of Zinc and Zinc alloyed with Aluminum and Magnesium	S250, S300, S350, S450, S550



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Product Range

Thickness (TCT)	0.28 – 2.00 mm
Width	700 – 1300 mm
Coil I.D.	508 / 610 mm
Zinc Coating (Total both sides)	Differential Zinc coating Top / weathering side: Higher Bottom/ non-weathering side: Lower (to be agreed during order finalization)
Surface Finish	Regular Spangle, Minimized Spangle
Surface Quality	As Coated Surface or Skin pass
Surface Treatment	Chemical Treated or Oiled

- Minimum zinc coating mass of 40 gsm available for thickness >0.30 mm thickness.
(Less than 60 gsm available for standards other than SASO ASTM)
- TCT – Total Coated Thickness (Steel thickness + Zinc coating thickness)
- Differential zinc coating will be supplied as per mutual agreement with customer and supplier



منتجات سعودية نوعية من لفائف وصفائح الحديد المطلية
SAUDI Quality Coated Steel Coils & Sheets

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Our Technical datasheets are constantly updated and adapted to the latest technology.
TDS/2026/PP13/00

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TECHNICAL DATA

Product Features

	Coils	Slit Coils	Cut Sheet
Thickness (TCT - mm)	0.28 - 2.00	0.28 - 2.00	0.30 - 2.00
Width (mm)	700 to 1,300	45 mm Min	700 - 1,300
Zinc Coating (GSM)*		Differential Zinc coating Top / weathering side: Higher Bottom/ non-weathering side: Lower (to be agreed during order finalization)	
Spangles	Regular / Minimized Spangles (Skin Passed)	Regular / Minimized Spangles (Skin Passed)	Regular / Minimized Spangles (Skin Passed)
Passivation	Chromated / Oiled	Chromated	Chromated
Oiling (mg/m ²)	200 - 1000	Not Applicable	Not Applicable
Coil ID (mm)	508 (610 optional)	508 (160, 200 & 300 for cable industry)	Not Applicable
Length (mm)	Not Applicable	Not Applicable	500 - 4,000
Coil Weight / Pallet Weight (Kgs)	3,000 - 12,000	3kg/mm to 8kg/mm of Width	3,000 Max

* Minimum zinc coating mass of 40 gsm available for thickness above 0.30 mm thickness.

Less than 60 gsm available for standards other than SASO ASTM

Differential zinc coating will be supplied as per mutual agreement with customer.

TCT - Total Coated Thickness (Steel thickness + Zinc coating thickness)



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