

# Differentially Zinc Coated Pre-Painted Galvanized Steel

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## General Description

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

"Differentially zinc coated pre-painted galvanized steel" is a specialized coated steel product with zinc layers of varied zinc coating mass on each side (top and bottom), subsequently processed in color coating line with multiple layers of Paint. 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. This product is available in all paint systems of Molawan and Colorite. For more details and for advice on applications, please contact UNICOIL sales engineer.

The differential zinc coating is represented as an example given below

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)

## Product and substrate standards

Standard	Description	Sub-Strate Standard	Grades
SASO ASTM A755/ A755M	Standard Specification for Steel Sheet, Metallic Coated by the Hot-Dip Process and Pre-painted by the Coil-Coating Process for Exterior Exposed Building Products	SASO ASTM A653/A653M	CS-Type A, B, C, FS Type A, B,
ASTM A755/ A755M	Standard Specification for Steel Sheet, Metallic Coated by the Hot-Dip Process and Pre-painted by the Coil-Coating Process for Exterior Exposed Building Products	ASTM,A653/A653M, ASTM,A792/A792M, Aluminum Flat coils	SS33, SS37, SS40, SS50, SS55, SS60 & SS80
EN10169	Continuously organic coated (coil coated) steel flat products — Technical delivery conditions	EN 10346	DX51D, DX52D, S220GD, S250GD, S280GD, S320GD, S350GD, S390GD, S420GD & S550GD
JIS G3312	Pre-Painted Hot Dip Zinc coated Steel Sheet and Strip	JIS G3302	SGCC, SGCD1, SGC340, SGC400, SGC440 & SGC570
AS 2728	Prefinished/pre-painted sheet metal products for interior/exterior building applications—Performance requirements	AS 1397	S250, S300, S350, S450, S550



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SAUDI Quality Coated Steel Coils & Sheets

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## Product Range

THICKNESS* (MM)(TCT-P)	WIDTH**(MM)	ZINC COATING (GSM)
0.28 to 1.20	700 to 1,300	Differential coating*** Top / weathering side: higher Bottom/ non-weathering side: lower (to be agreed during order finalization)

\* For grade SS50, minimum thickness is 0.46 mm

\*\* For width less than 700 mm are supplied with slit edge

For specific dimensions please contact Sales and Marketing Dept.

TCT-P – Total Coated Thickness with Paint Film (Steel thickness + Zinc coating thickness + Paint thickness)

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



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## Paint System

<b>Pretreatment</b>	Corrosion resistance proprietary conversion coating each side
<b>Primer Coat</b>	Universal Corrosion inhibitive Primer Nominal Thickness: 5 µm each side
<b>Finish Coat</b>	Polyester based custom formulated system. Nominal thickness: 15 - 20µm on the top or weather side.
<b>Backing Coat</b>	Polyester based custom formulated off white or Foam compatible epoxy backing coat. Nominal thickness: 5-7 µm.
<b>Gloss (60°)</b>	Medium Gloss. Other gloss levels may be available on request

## Guaranteed Paint Properties

GUARANTEED PAINT PROPERTIES				
	TEST	TEST METHOD	DESCRIPTION	RESULTS
	Hardness (Pencil)	ASTM D 3363	Pencil	HB or Harder
	Adhesion -T bend	ASTM D 4145	T-bend	5T or less
	Adhesion - Reverse impact	ASTM D 2794	Reverse impact	>9 Joules
	Cross hatch	ASTM D 3359	Cross hatch	No paint removal"0" Rating (NO REMOVAL)
	Gloss 60° (%)	ASTM D 523	Gloss	30-70±5%

\* Less than 90 GSM zinc coating is available for standards other than SASO ASTM.  
minimum PPGI thickness for 40 GSM will be available for 0.35mm and above.



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