

TECHNICAL DATA SHEET

GENERAL DESCRIPTION

Molawan Abrasion Resist is a Cost-Effective, Polyester Polyamide Pre-Painted Galvanized Steel Developed for Applications Under Frequent Abrasion. The paint is a Polyester Polyamide system, applied on a Galvanized substrate of Minimum 90 GSM zinc coating, with paint film thickness of 20 microns on both sides for better performance with close color match on top and bottom.

SUBSTRATE

Galvanized steel, minimum G30(90 GSM).

TYPICAL USES

Garage doors, Rolling Shutter and other applications subjected to frequent abrasion.

DIMENSIONS: (For normal supply products)

THICKNESS*(MM)(TCT-P)	WIDTH**(MM)	ZINC COATING (GSM)
0.25 to 1.20	700 to 1,300	90 (G30) minimum

*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)

ADVANTAGES:

Pre-painted Galvanized Steel for Applications Under Frequent Abrasion

Standards & Grades







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




Paint System

Pretreatment	Corrosion resistance proprietary conversion coating each side
Primer Coat	Universal Corrosion inhibitive Primer Nominal Thickness: 5 µm each side
Finish Coat	Custom formulated Polyester and Polyamide paint system. (PEPA) Nominal thickness minimum 15 µm on the top or weather side. The finish coat is available on RAL standard colors and other colors may be available on request
Backing Coat	Custom formulated Polyester and Polyamide paint system. (PEPA). Nominal thickness of minimum 10 µm microns. Back coat is in the same topcoat colour and DFT as required
Gloss (60°)	Medium Gloss. Other gloss levels may be available on request

GUARANTEED PAINT PROPERTIES


	TEST	TEST METHOD	DESCRIPTION	RESULTS
	Hardness (Pencil)	ASTM D 3363	Pencil	H-2H
	Adhesion -T bend	ASTM D 4145	T-bend	3T or less
	Flexibility	ASTM D 4145	T-bend	2T or less (no cracking)
	Adhesion - Reverse impact	ASTM D 2794	Reverse impact	>10 Joules
	Cross hatch	ASTM D 3359	Cross hatch	> No paint removal
	Gloss 60° (%)	ASTM D 523	Gloss	30±5%


Expected Product Service Performance


	Test	Test Method	Description	Results
	Resistance to Abrasion	ASTM D4060	Taber abraser 1000g CS10 wheels	≤100mg per 1000 cycles

NOTE

1. For most products, the metallurgical process which is inherent in the paint stoving cycle will result in some loss of ductility compared with unpainted product. However, minimum strength levels designated by relevant standards will still be applicable.

2. Values quoted are for  colors under normal well washed conditions of exposure.

If it is intended to use  in an exterior application within 1 km of salt marine location, or severe industrial or abnormally corrosive environment, or in areas not washed by rain or in applications where it will be wholly or partially buried in the ground, please contact UNICOIL for advice. Improper storage or use of non approved roll forming lubricants may adversely affect color. Material which becomes wet while in stacks or bundles must be separated and dried.

3.  metal has good resistance to accidental spillage of solvents such as methylated spirits, white spirits, mineral turpentine, trichloroethylene and diluted mineral acids & alkalis. However, all spillages should be immediately removed by water washing and drying.

4. Properties Guaranteed on G30 (90gsm) minimum zinc coating mass.