

**GENERAL DESCRIPTION**

Molawan was Developed for Cost-Effective Applications Including Roofing and Cladding. Molawan is a Paint system comprising hot-dip galvanized steel sheet with a minimum Zinc coating mass of 90 gsm that is painted on and oven cured with regular polyester in combination with a custom-formulated primer. This produces a nominal paint dry film thickness of 20 microns on the top surface (inclusive of primer) and 10 microns on the bottom (inclusive of primer). Molawan was developed for cost-effective applications including roofing and cladding.

**SUBSTRATE**

Galvanized steel, minimum G30(90 GSM).

**TYPICAL USES**

Roofing and Walling, False Ceiling, Appliances

**DIMENSIONS: (For normal supply products)**

THICKNESS*(MM)(TCT-P)	WIDTH(MM)**	Zinc coating (GSM)***
0.22 to 1.50	700 to 1,300	90 (G30) minimum

\*For grade S550, minimum thickness is 0.46 mm.

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

\*\*\* Less than 90 GSM zinc coating is available for standards other than SASO ASTM For specific dimensions please contact Sales and Marketing Dept.

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

**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, SS33, SS37, SS40, SS50, SS55, SS60 & SS80
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	
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,S-GC340, 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

<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. (Regular Modified Polyester) Nominal thickness: 15µm on the top or weather side. The finish coat can be applied to both sides to provide double sided product, if required.
<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

	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
	Gloss 60° (%)	ASTM D 523	Gloss	30-70±5%

\* Minimum PPGI thickness for 40 GSM will be available for 0.35mm and above.

# NOTE

1. For most products, the metallurgical ageing 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 standard **MOLAWAN** colors.

If it is intended to use **MOLAWAN** pre painted metal 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. **MOLAWAN** prepainted metal has good resistance to accidental spillage of solvents such as methylated spirits, white spirits, mineral turpentine, toluene, 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.