








GENERAL DESCRIPTION	SUBSTRATE				
MOLAWAN THERMOCOOL pre-painted steel developed to provide durable material for exterior applications with High Thermal reflectivity, weatherability & good formability.	Galvanized steel, minimum G30(90 GSM). Grade : CS Type A&B, FS Type A&B, SS33, SS40 & SS50				
TYPICAL USES	DIMENSIONS:				
Roofing and Walling , Sandwich Panels, Cold Rooms etc.	<table border="1"> <tr> <td>THICKNESS* (MM)</td> <td>WIDTH** (MM)</td> </tr> <tr> <td>0.30 to 1.20</td> <td>From 50 to 1320</td> </tr> </table>	THICKNESS* (MM)	WIDTH** (MM)	0.30 to 1.20	From 50 to 1320
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STANDARDS					
Substrate : ASTM A653/A653M Paint coating : ASTM A755/755M	*For grade SS50, minimum thickness is 0.50 mm **For width less than 1000 mm are supplied with slit edge For specific dimensions please contact Sales and Marketing Dept.				

PRETREATMENT	Corrosion resistance proprietary conversion coating each side
PRIMER COAT	Universal Corrosion inhibitive Primer Nominal thickness- 5microns each side
FINISH COAT	Custom formulated system with Solar Reflective Pigments Nominal thickness-15 microns on the top or weather side.
BACKING COAT	Polyester based custom formulated off white. Nominal thickness – 5microns. Foam compatible backing coat is available on request. Back coat can be in the same top coat 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	F or harder
	Adhesion -T bend	ASTM D 4145	T-bend	3T or less
	Flexibility	ASTM D 4145	T-bend	3T 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 - 35

EXPECTED PRODUCT SERVICE PERFORMANCE


	PROPERTY	TEST METHOD	DESCRIPTION	RESULTS
	Total Solar Reflectance *	ASTM G159	Solar Reflectance	TSR values for different colors: RAL 3009 - 23 % RAL 8017 - 24 % RAL 7024 - 25 % RAL 6003 - 27 % RAL 9005 - 33 % Arabian Beige - 49 % RAL 1015 - 51 % RAL 7035 - 60 %

* For Other Colors, Please Contact Unicoil Sales Representative


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  colors.

If it is intended to use  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 colour. Material which becomes wet while in stacks or bundles must be separated and dried.

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

