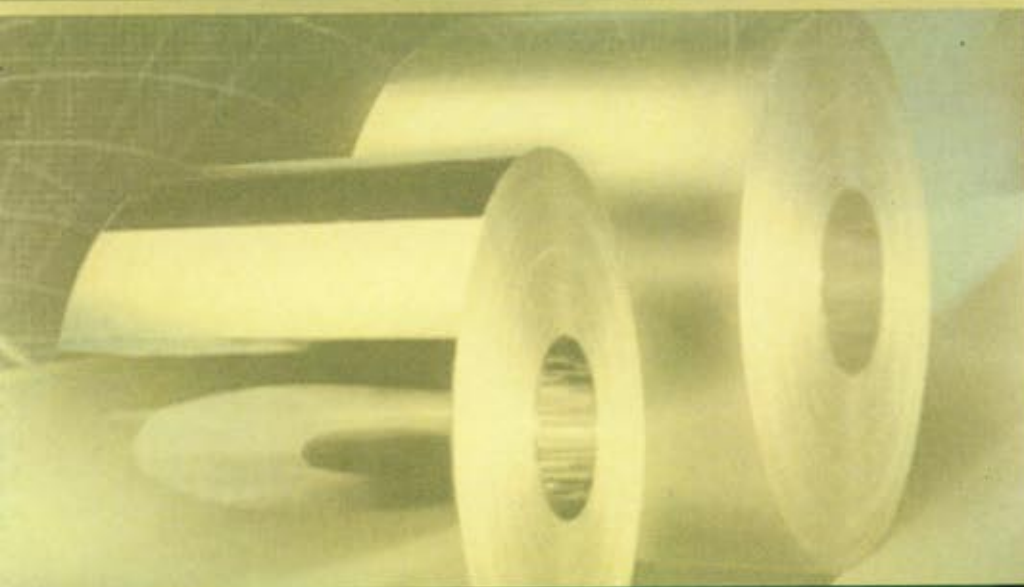




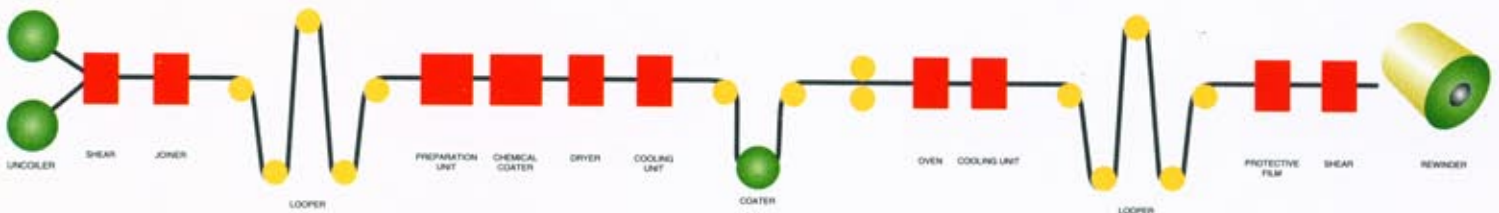
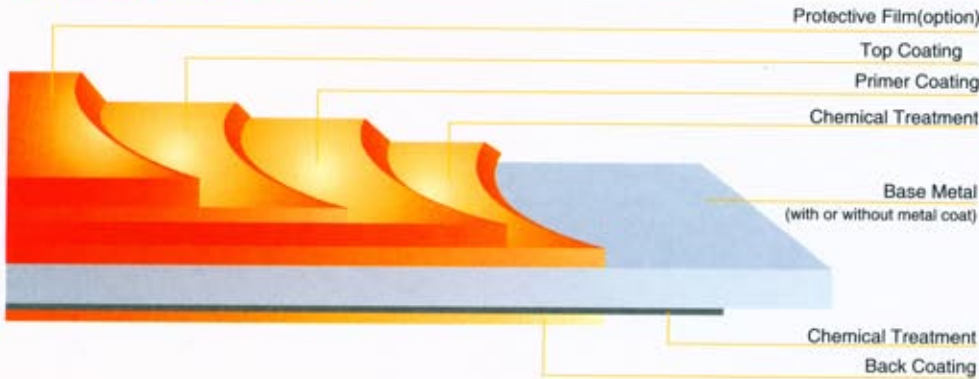
 **Manaksia  
Limited**



Manaksia Limited (formerly Hindustan Seals Ltd., incorporated in 1972) is a multi-division and multi-location industrial house, headquartered in Kolkata, possessing multiple manufacturing plants in India, Nepal & Africa, and sales and service offices all over the country and abroad. The company specialises in the manufacture of packaging products (packaging products include crowns caps, roll-on pilfer-proof closures, expanded polyethylene liners as well as push-open and other metal containers), Ferrous and non-ferrous metal products (Sponge iron, MS alloy ingots and long products, Aluminum alloys, Aluminum rolled products, Pre-coated Sheets, etc.), household insecticides (Mosquito repellent coils), and special purpose machinery among others.

Manaksia's product range include Color coated sheets (Pre-Painted Sheets of various substrate material like Cold Rolled steel sheets, Zinc coated CR, Al-Zn coated CR, Aluminum Sheets, etc) with an annual production capacity of approx. 60000 MT. These Pre-coated sheets are available in various attractive colors, Gloss or matt finishes, different thickness of substrate and coating, and various pretreatment as per the desire of the customer. These sheets offer a much higher durability and aesthetic appeal as compared to conventional zinc coated CR sheets.

## Section of the Product



## Typical Process of pre-painted Zinc-Coated Coil

This is typically produced using a Two Coat - Two Bake process consisting of two steps of coating and baking following a pretreatment.

- > The first step is coating and Baking a primer coat,
- > The second step is coating and baking top and back coat.

Using the most advanced technology in the world, Manaksia brings you a product that is versatile, durable, colourful and competes with the best of its kind globally.

## Excellent Workability, Beautiful Color & Long Life

A very thorough processing and coating technique ensures that the coating adheres firmly to the base metal and does not peel off during Roll forming, bending or any other processing at the same time providing a uniform coating thickness and extra smooth surfaces, with availability in various attractive colors.

This special processing over the base metal ensures a higher durability even in tough weathering conditions and provides the customer a long lasting value on their investment as compared to any conventional products.

## Accessories

All profiles are available in standard dimensions and can be made in any of the standard thicknesses.

Standard tolerances apply




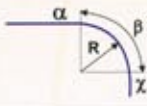

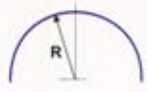
Accessories are made on order

Accessories can be made in metal and color of your choice.




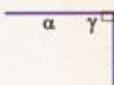

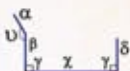
Kindly contact our marketing offices for details and placing of your valuable order.



### Profiled Accessories (Coated Steel/Aluminum)

		RIDGE
		NORTH LIGHT CURVATURE
		CURVATURE

### Plain Accessories (Coated Steel/Aluminum)

		PLAIN RIDGE
		BARGE BOARD
		END EAVE GUTTER

### FOR YOUR ENQUIRY PLEASE CONTACT

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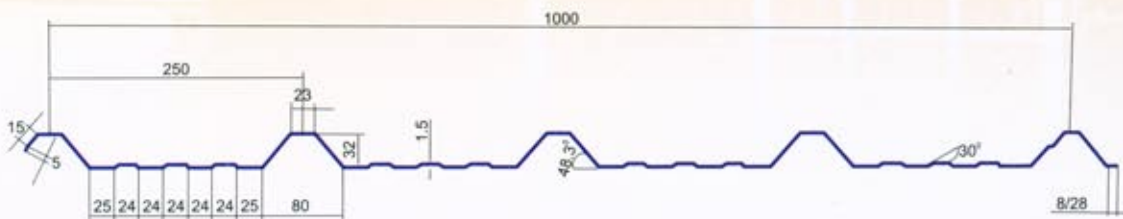
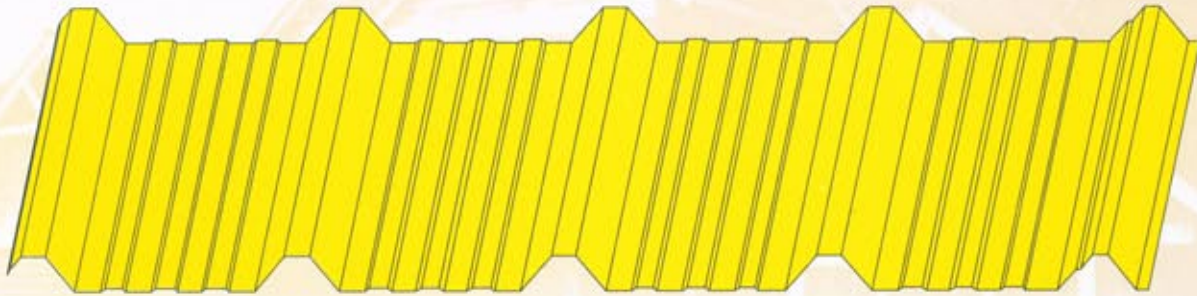
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# Manaksia Profile 1000 (Coated Steel/Aluminum)



\*STANDARD TOLERANCES APPLY

- MATERIAL** : Prepainted (Zn/Zn-Al coated) Steel & Aluminum Profiled Sheets
- COATING** : Conforming to JIS 3312
- COLOURS** : As per RAL Colour Chart / Our Std. colour chart
- APPLICATIONS** : Industrial Roofing, Cladding, Farm/domestic Houses, Airport Hangars, Factory Sheds, Warehouse, etc.,

## SECTIONAL PROPERTIES (STEEL - Zn/Zn-Al COATED)

Thickness mm	Area (mm <sup>2</sup> )	I <sub>xx</sub> (mm <sup>4</sup> )	Z <sub>top</sub> (mm <sup>3</sup> )	Z <sub>bottom</sub> (mm <sup>3</sup> )	Span for Deflection w/m <sup>2</sup> =70kg		UDL (kg/m <sup>2</sup> ) for Span		
					L/100 (cm)	L/200 (cm)	1 meter	1.4 meter	2 meter
0.30	337.32	42115.5	1740.59	5405.01	211.03	167.49	314.86	114.74	39.35
0.40	449.75	56156.14	2320.88	7206.95	232.27	184.35	373.08	135.96	46.63
0.45	505.97	63177.11	2611.05	8108.01	241.57	191.73	419.74	152.96	52.46
0.50	562.19	70198.60	2901.24	9009.13	250.21	198.59	466.38	169.96	58.29
0.55	618.41	77220.66	3191.46	9910.33	258.29	205.00	513.02	186.96	64.12
0.60	674.63	84243.36	3481.7	10811.60	265.89	211.04	559.66	203.95	69.95
0.70	787.07	98290.86	4062.27	12614.43	279.92	222.17	652.94	237.95	81.61
0.80	899.51	112341.56	4642.97	14417.66	292.66	232.29	746.24	271.95	93.28
0.90	1011.95	126395.93	5223.82	16221.37	304.39	241.60	839.51	305.94	104.93
1.00	1124.39	140454.41	5804.85	18025.60	315.28	250.24	932.77	339.93	116.59
1.20	1349.26	168585.57	6967.48	21635.89	335.07	265.94	1119.30	407.90	139.91

Above Table for Steel is for Substrate of 340mpa. Substrate such as Aluminum, Al-Zn coated Steel or Substrate with higher yield strength CR (upto 550mpa.) Sheet can also be offered in thickness 0.30 & above up to 1.20 mm. Test result as derived under test conditions at JNTU, Hyderabad.

## Standard Specification

(Pre-Painted & Zinc Coated Steel Sheet using Modified Regular polyester)

Zinc coating	120 gm/Sq.m (or as desired by the customer)
Primer	5-7 Microns
Back coat	5-7 Microns
Top coat	Upto 25 Microns (Coating thickness may vary as required by customer).
Guard film	Optional
Coil ID	508 mm
Coil weight	2-5 metric tones (to vary as per customer)
Sheet Length	3 m - 12 m (can vary as per customer's need)
Standard coil width	1220 mm (range 700 mm - 1250 mm)
Substrate Thickness	0.16 mm - 1.20 mm
Substrate as Aluminum, Al-Zn coated Steel or Substrate with higher yield strength CR Sheet can also be offered in thickness 0.30 & above up to 1.20 mm.	

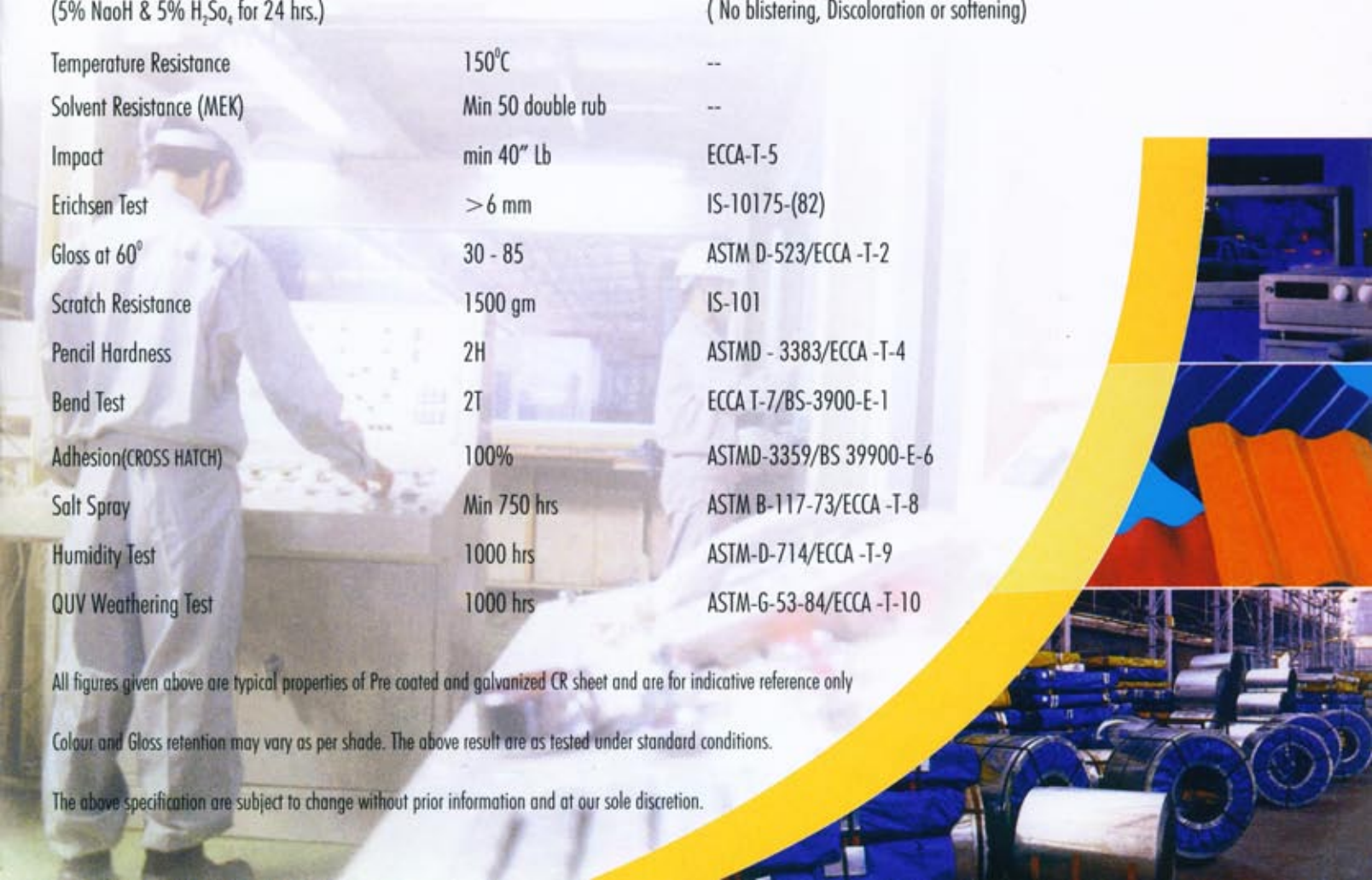
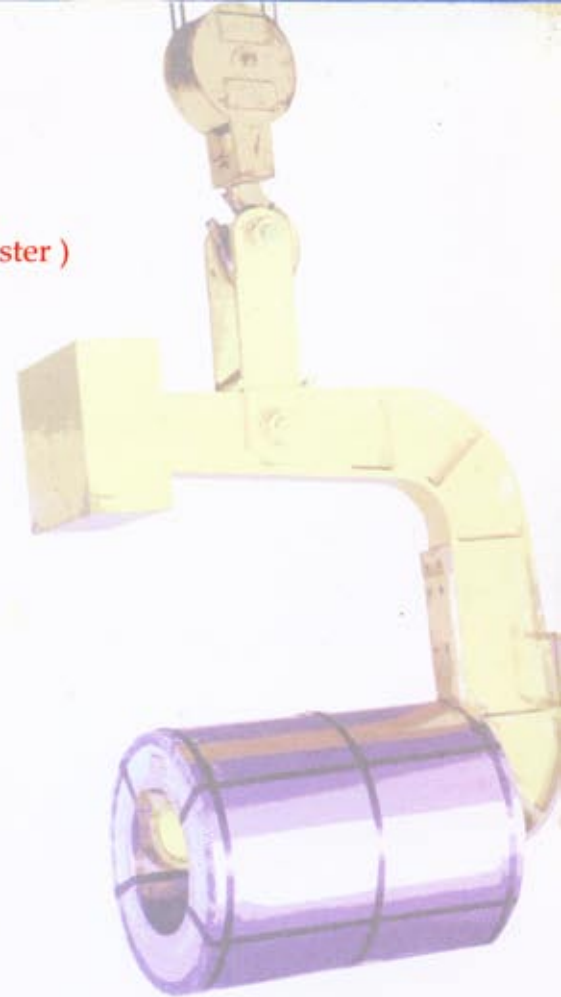
### Ref (Specifications)

Resistance to chemical corrosion (5% NaOH & 5% H <sub>2</sub> SO <sub>4</sub> for 24 hrs.)	Good	ECCA -T-18 ( No blistering, Discoloration or softening)
Temperature Resistance	150°C	--
Solvent Resistance (MEK)	Min 50 double rub	--
Impact	min 40" Lb	ECCA-T-5
Erichsen Test	> 6 mm	IS-10175-(82)
Gloss at 60°	30 - 85	ASTM D-523/ECCA -T-2
Scratch Resistance	1500 gm	IS-101
Pencil Hardness	2H	ASTMD - 3383/ECCA -T-4
Bend Test	2T	ECCA T-7/BS-3900-E-1
Adhesion(CROSS HATCH)	100%	ASTMD-3359/BS 39900-E-6
Salt Spray	Min 750 hrs	ASTM B-117-73/ECCA -T-8
Humidity Test	1000 hrs	ASTM-D-714/ECCA -T-9
QUV Weathering Test	1000 hrs	ASTM-G-53-84/ECCA -T-10

All figures given above are typical properties of Pre coated and galvanized CR sheet and are for indicative reference only

Colour and Gloss retention may vary as per shade. The above result are as tested under standard conditions.

The above specification are subject to change without prior information and at our sole discretion.



## Various Applications

The product can be supplied in Coil form or Pre-formed in our standard profile as per customer's desire. Some typical application include the following:

Trapezoidal and Sinusoidal Profiles, Roofing and Cladding / Door / Window Frame and Shutter, Sandwich Panels, Airport Hanger, Architectural Roofing and Cladding, Attractive Compound Wall, White good appliances such as Washing Machine, Refrigerator, Microwave Oven, Toaster, Steel Cupboard, Wardrobes, Shelving, Steel Trunk, Kitchen Platform, Cabinet, Table Top, False Ceiling, Pigeon Hole Rack, Filing Cabinet, Rail and Luxury Coach Interiors, Truck Cab / Locomotive Interior, Dash Board, Seat Back, Venetian Blinds, Name / Sign Board, Hoarding Board, Ventilation Louvre, Electric Meter Casing, Dials, Electrical Control Panels, Cans & Containers etc.

These highly durable Pre-coated sheets are available in a very wide range of colours and finishes. Below are only some of the standard colour options for you to choose from. Let your imagination meet our technology and bring out creations in lively colour combinations reflecting your elegant style, taste and personality. Our products are subjected to a series of tough weathering and resistance tests to ensure what reaches you meets global standards and offer you good value for your money.



Signal Red (RAL-3001)



Light Blue (RAL- 5012)



Leaf Green (RAL-6002)



Ivory (RAL-9002)



Appliance White



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