



**COLOR COATING OF COILS &  
FABRICATORS OF PRE-ENGINEERED  
STEEL BUILDINGS**



**ANIL ABDULKARIM JAFFER**  
Founder



## DIRECTOR'S MESSAGE



**ALLY ANIL JAFFER**  
Managing Director

Welcome to Rhino Steel Industries and Coating LLC (“Rhino Steel”), a RME Group Company. We are delighted that you are interested in associating with Rhino Steel. RME group of Companies was established in the year 1978 in East Africa by Mr. Anil Abdulkarim Jaffer, a legend of his own time for his uncommon vision. Rhino steel is the latest addition to the RME group and Rhino Steel is successfully taking forward the group’s legacy to the next level. Our group’s success stems on the trust our customers have bestowed on us.

We started Roofings Middle East in Hamriyah Free Zone, Sharjah in 2004 and expanded our fabrication unit and started state of the art color coating facility in DIC, Dubai. We have been consistently and diligently manufacturing products exceeding the expectation of customers.

We foresee enormous demand for color coated coils in GCC as well as African markets. So, our prime focus is to cater the demand of GCC as well as African markets.

This has successfully reduced the turnaround time of our clients in UAE. We are aiming to become a steel manufacturing conglomerate.

We have a strong belief – “The future belongs to those who believe in their dreams.”

We would like to express our gratitude to all the stakeholders who have invested their precious time, energy and resources towards achieving our Group’s success.



## ABOUT US

Rhino Steel is part of thriving industry engaged in the field of Colour (Coil) Coating and Pre-Engineered Steel Buildings. We have set up state-of-the-art facility at Dubai Industrial City (DIC) for Continuous Colour Coating on Galvanized Iron (GI), Galvalume (Aluzinc), Aluminium and Aluminized Steel Coil. Our annual capacity is 60,000 tons of Pre-Coated Steel Coils. Our experts have mastered the paint coating systems such as Poly-Vinylidene DiFluoride (PVDF), High Durable Polyester (HDP), Polyester, Plastisol, Polyester Polyamides and Polyurethane Polyamides (PUPA).

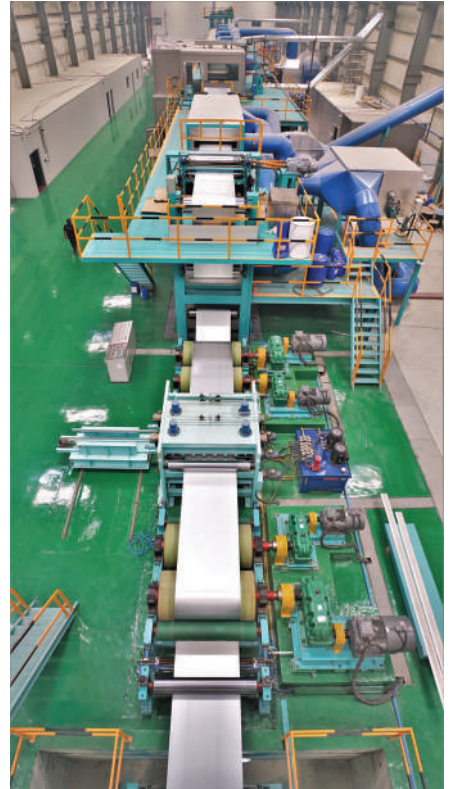
We are also into Pre-Engineered Steel Building (PEB) Design and Fabrication. We have a team of dedicated Structural Designers and Detailers. We can Design, Fabricate, Supply and Erect any kind of steel buildings like warehouses, hangers, sports complexes, shopping complexes etc.

Additionally, our team conducts Technical Evaluations of your coated coils, leveraging our advanced and sophisticated laboratory equipment in tandem with contemporary testing methods that adhere to international standards.

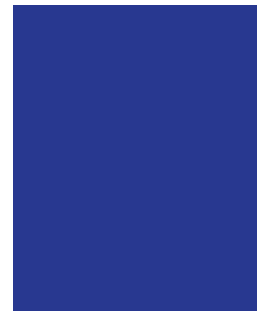
Our coil coating plant is highly distinguished for better performance, safety and high quality. We serve a diverse array of industries right from manufacturing to construction. Rhino Steel truly understands customer requirements, striving towards meeting every expectation at all stages of the client relationship.



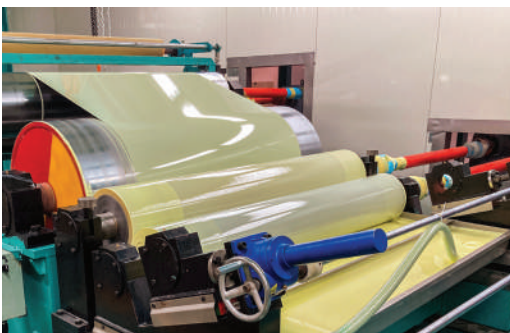
# MANUFACTURING FACILITY



**MODERN &  
STATE-OF-THE-ART  
COATING LINE**



**EFFICIENT,  
SUPERIOR &  
HIGH-TECH  
EQUIPMENT**



# OUR VISION

Is to optimize performance and move to the next level by providing innovative and world-class products and to achieve sustainable growth and maximizing the returns to the stakeholders.

# OUR MISSION

- › To provide innovative and world-class products, and to achieve sustainable growth and maximize the returns to the stakeholders.
- › To build a long-term relationship with our clients by providing quality products and services which exceed their expectations.
- › To become leading supplier Company in Gulf region for Pre-Painted Steel & Aluminum Coils and Fabricator of Pre-Engineered Steel Buildings.

## OUR MAIN OBJECTIVES ARE



To offer high-quality products and services to all our customers.



To create an engaging workplace for employees, ensuring high safety standards, regular training, performance rewards, and more.



To always adhere to quality management requirements and continuously improve our systems and product quality.

# COATING SPECIFICATIONS

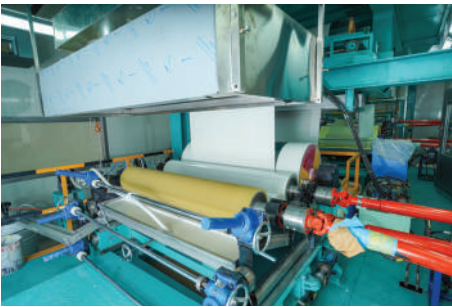
<b>RhinoShield RMP</b>	Regular Modified Polyester 5μ Primer + 20μ Top Coat
<b>RhinoShield HDP</b>	High Durable Polyester 5μ Primer + 20μ Top Coat
<b>RhinoShield SMP</b>	Silicone Modified Polyester 5μ Primer + 20μ Top Coat
<b>RhinoShield PVDF</b>	PolyVinylidene DiFluoride 5μ Primer + 20μ Top Coat
<b>RhinoShield Super PVDF</b>	PolyVinylidene DiFluoride 5μ Primer + 20μ Top Coat + 15μ Clear Coat
<b>RhinoShield Ultra PVDF**</b>	PolyVinylidene DiFluoride 5μ Primer + 20μ Barrier Coat + 20μ Top Coat + 15μ Clear Coat
<b>RhinoShield Plasti Smooth</b>	Plastisol (PVC) Smooth 5μ Primer + 100-200μ Top Coat * as required
<b>RhinoShield Plasti Leather</b>	Plastisol (PVC) Leather Finish 5μ Primer + 100-200μ Top Coat *as required
<b>RhinoShield PUPA</b>	PolyUrethane PolyAmide 30μ Primer + 30μ Top Coat
<b>RhinoShield PEPA</b>	Polyester PolyAmide 5μ Primer + 20μ Top Coat
<b>RhinoShield Decor</b>	Wood Finish 10-12μ Primer + 2-4μ Texture (INK) + 10-12μ Clear Coat
<b>RhinoShield TEX</b>	Texture / Wrinkle Finish 5μ Primer + 22-40μ Top Coat
<b>RhinoShield Thermo</b>	High SRI Values (Light colours) 5μ Primer + 20μ Top Coat
<b>RhinoShield F-Safe</b>	Food Safe / Anti-bacterial 5μ Primer + 20μ Top Coat
<b>RhinoShield Organic</b>	Thin Organic Coating 5-8μ Organic Coating
<b>RhinoShield Acrylic</b>	Acrylic Coating / Clear Coating 10-15μ Clear Coat

- Other type of coatings and coating thicknesses can be given as per customer requirement.
- RhinoShield Ultra PVDF \*\* upto 80microns can be given as per customer requirement.
- Coating thickness tolerance +/- 10%

**Metal substrate**  
(steel or aluminium) is delivered in coil from the mills



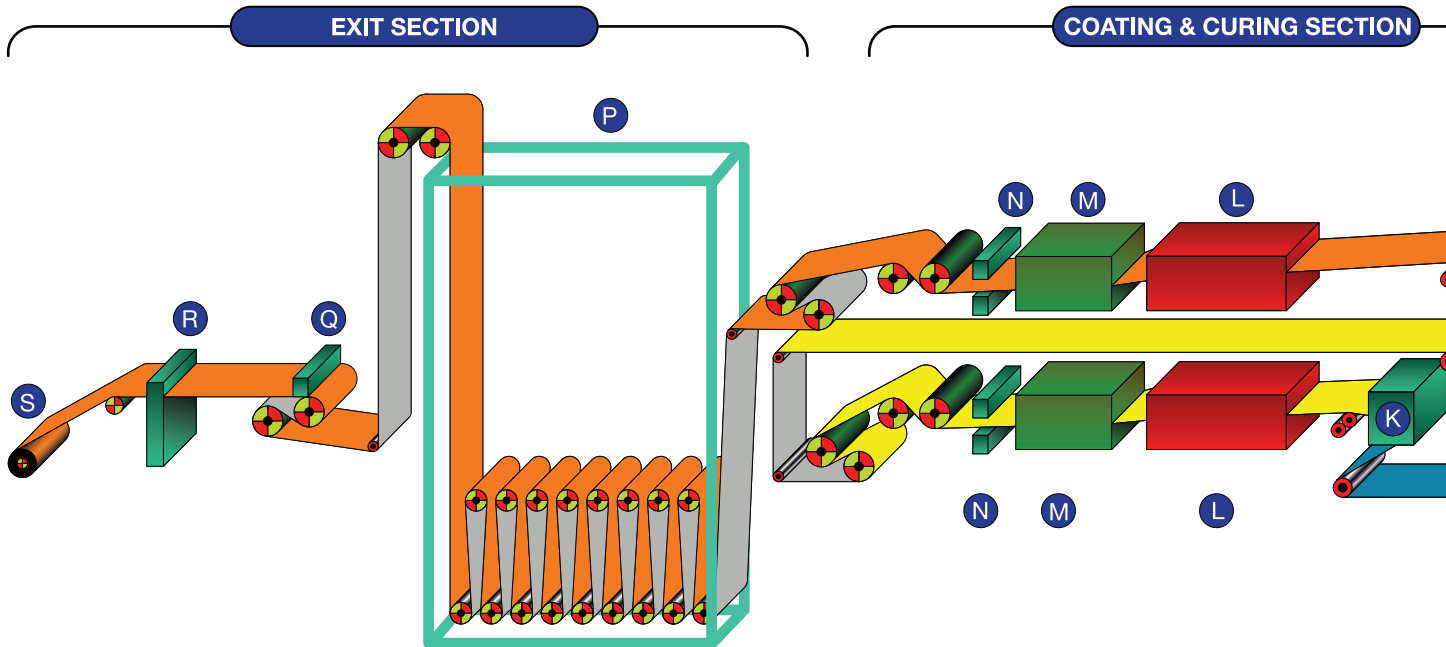
Surface treatment and coating processes before being recoiled



- TOP COAT
- PRIMER COAT
- ZINC COATING
- BASE METAL
- PRE-TREATMENT(CHROMATING)
- SERVICE COAT



# COIL COAT



## ENTRY SECTION

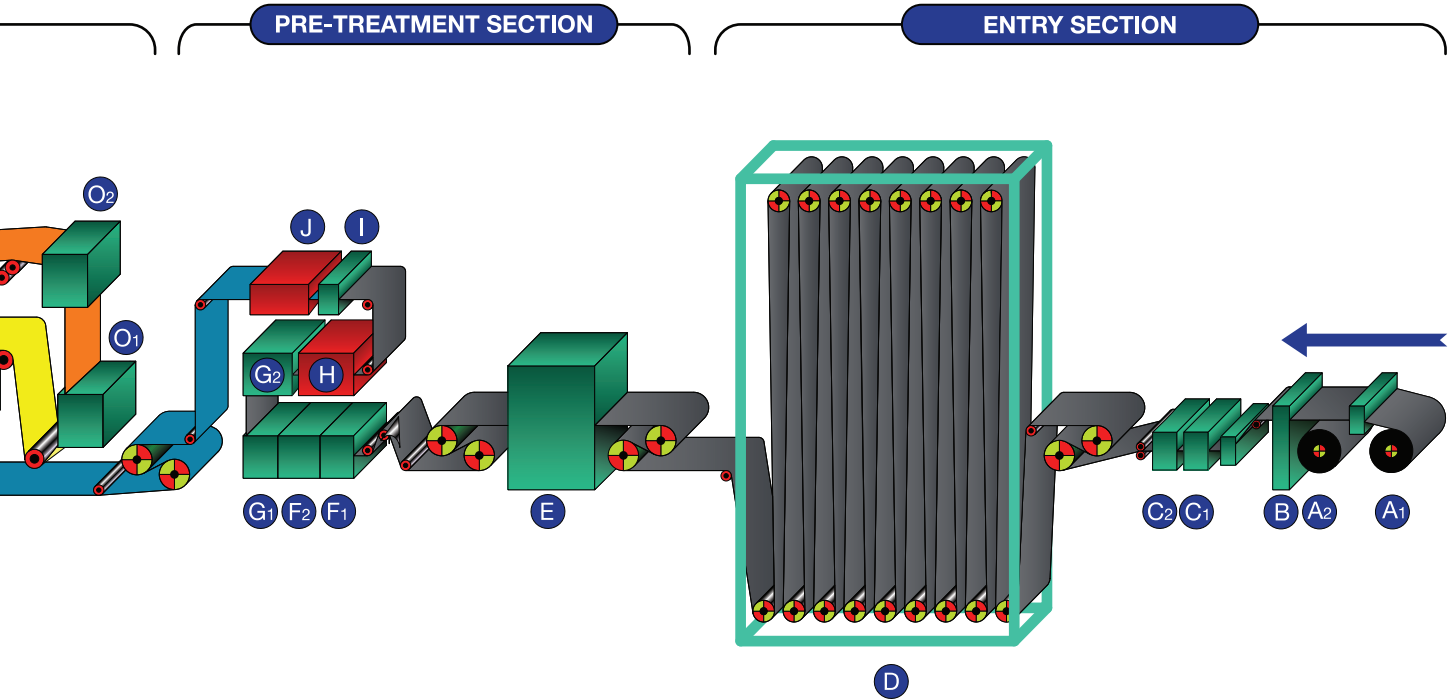
- A<sub>1</sub> DECOILER 1
- A<sub>2</sub> DECOILER 2
- B SHEAR
- C<sub>1</sub> STITCHER 1
- C<sub>2</sub> STITCHER 2
- D ENTRY ACCUMULATOR

## PRE-TREATMENT SECTION

- E TENSION LEVELER
- F<sub>1</sub> DEGREASING 1
- F<sub>2</sub> DEGREASING 2
- G<sub>1</sub> RINSING 1
- G<sub>2</sub> RINSING 2
- H DRYING OVEN
- I CHEMICAL COATER
- J DRYING OVEN



# TING LINE



## COATING & CURING SECTION

- K PRIMER COATER
- L CURING OVEN
- M WATER COOLING
- N AIR DRYING
- O<sub>1</sub> TOP COATER 1
- O<sub>2</sub> TOP COATER 2

## EXIT SECTION

- P EXIT ACCUMULATOR
- Q LAMINATION
- R SHEAR
- S RECOILER

# PRODUCT STANDARD TEST RESULTS

All our coated products meet international quality requirements. Each and every product is tested as per required international standards.

## FINISHED PRODUCT STANDARD TEST RESULTS

TEST TYPE	RMP	HDP	PVDF (PVF <sub>2</sub> )	TEST STANDARDS
Colour Matching	Delta E ≤ 1	Delta E ≤ 1	Delta E ≤ 1	ASTM D2244
Gloss at 60°	10-90%	12-90%	25-35%	ASTM G523
T Bend (Without Crack)	2T	2T	2T	ASTM D4145
Impact	60 inch - LBS(8J)	60 inch - LBS(8J)	60 inch - LBS(8J)	ASTM D2794
Cross Hatch	100% Pass	100% Pass	100% Pass	ASTM D3359
Pencil Hardness	H	H	HB	ASTM D3363
MEK Resistance (No. of Rubs)	100 DR	100 DR	100 DR	ASTM D4752
Cupping	6mm	6mm	6mm	ASTM D643
UV Resistance Delta E Hunter	Delta E < 5 (1000Hrs)	Delta E < 2 (1000Hrs)	Delta E < 3 (2000Hrs)	ASTM G154
UV Resistance Gloss Retention	G.R.> 25% (1000Hrs)	G.R.> 50% (1000Hrs)	G.R.> 90% (2000Hrs)	ASTM G154
Humidity Resistance	1000 Hrs-M	1000 Hrs-M	1500 Hrs-M	ASTM D2247
Corrosion Resistance Salt Spray	750 Hrs-M	750 Hrs-M	1000 Hrs-M	ASTM B117

# IN-HOUSE TESTING FACILITY

We have modern in house laboratory to conduct all necessary tests on coated products. We do tests on all our incoming materials and finished products.



**SPECTROMETER**



**GLOSS LEVEL MEASUREMENT**



**CUPPING TEST**



**BEND TEST**



**COATING THICKNESS MEASUREMENT**



**SALT SPRAY TESTER**

# PRODUCT RANGE

## Pre-Painted Aluminium - as per ASTM B209M

Alloy	AA3003 H46   AA3004 H44   AA3105 H46
Thickness Range	0.30mm to 1.20mm
Width Range	26mm to 1250mm
Coil Weight	Upto 3.00MT
Coil ID	508mm

## Pre-Painted Galvanized Steel - as per ASTM A653/A653M

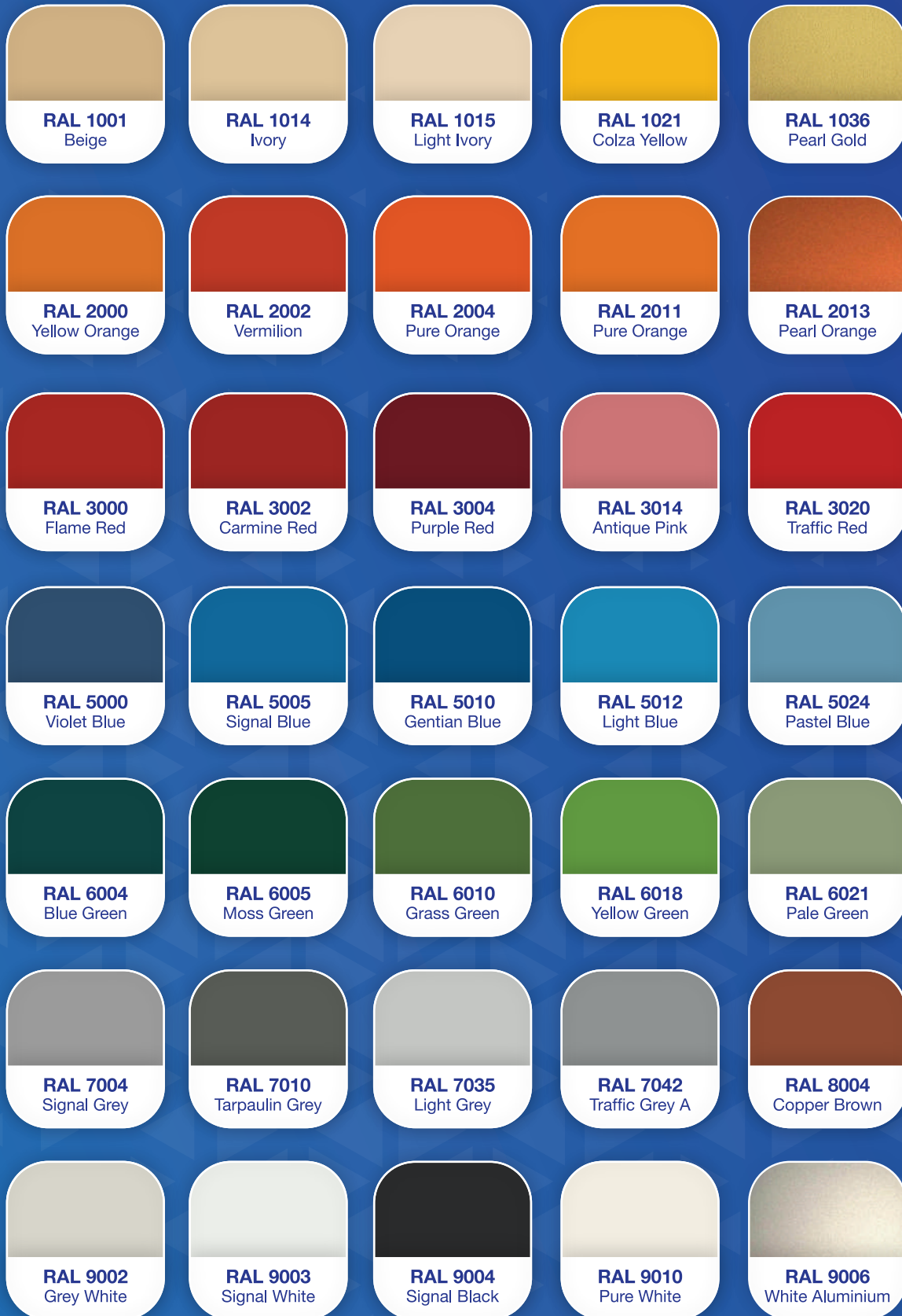
Grade	Commercial Quality (LFQ/CQ/CS) / Structural Quality (SS)
Zinc	G30(90gsm)   G40(120gsm)   G60(180gsm)   G90(275gsm)
Thickness Range	0.20mm to 1.20mm
Width Range	26mm to 1250mm
Coil Weight	Upto 6.00MT
Coil ID	508mm

## Pre-Painted Alu-Zinc (Galvalume) - as per ASTM A792/A792M

Grade	Commercial Quality (LFQ/CQ/CS) / Structural Quality (SS)
Zinc	AZM70   AZM100   AZM150
Thickness Range	0.20mm to 1.20mm
Width Range	26mm to 1250mm
Coil Weight	Upto 6.00MT
Coil ID	508mm

# STANDARD COLOURS

These are the standard colours for reference



Actual colours may vary from these printed colours.

You are advised to obtain a metal colour sample for specific colour.

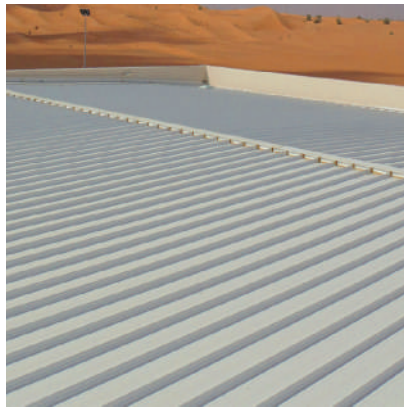
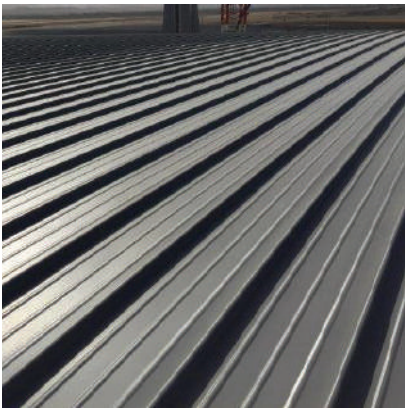
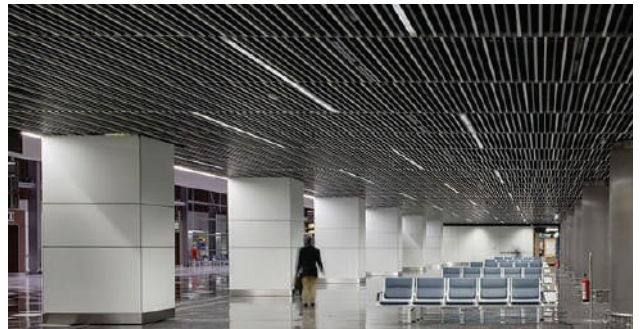
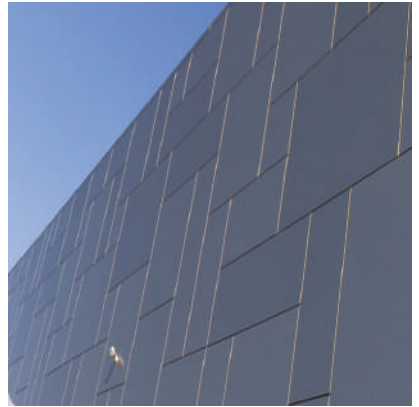
Other colour standards like Pantone and BS standards are available on request.

# APPLICATIONS

Our product applications are wide and diverse. Right from roofing and cladding to interiors and facades, our premium-quality finish ensures that your space looks top-tier. We're happy to customize the coating system for your requirements and applications.

- › Roofings
- › Claddings
- › Facades & Awnings
- › K-Span Building
- › Composite Panels
- › Architectural Cladding
- › Linear Ceiling | False Ceilings Tiles
- › Cold Storage | Food Storage
- › Interior Ceilings
- › Rolling Shutters
- › Door & Window Profiles | Panels
- › Kitchen Cabinets
- › Lift Interiors
- › Trailer | Truck | Pickup Body
- › Automobile Industries
- › Sign Boards
- › Lighting
- › White Goods

# APPLICATIONS PHOTOS



## RME GROUP OF COMPANIES



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