



# COLOURS OF ELEGANCE, WORLD OF STRENGTH

Jindal (India) Limited – Sheets Division





## OUR VISION

**"To uphold our glorious legacy and create new industry benchmarks with excellence in quality and dedication towards building a stronger tomorrow"**

## OUR MISSION

**"Constantly update our production capacity and upgrade our product quality to become leaders in the industries we serve"**



## ***Shri B.C. Jindal***

**Founder, Jindal (India) Limited**



*The journey of Jindal (India) Limited derives its strength from the vision of the Late Shri Bhavi Chand Jindal, a leader, and visionary who immediately after India's independence, started the journey of Jindal India.*

*He wanted the company to play a pivotal role in making India a market leader in the steel industry while making Jindal India self-reliant in its capabilities. His vision and philosophy have always been the guiding light that has paved the path for Jindal India's journey toward excellence.*

*As we continue building our product portfolio with a team of qualified and expert professionals, we strive to carry forward Shri B.C. Jindal's vision of taking Jindal India to unparalleled heights and contributing towards the growth of the nation .*



# CORPORATE PROFILE

As one of India's leading conglomerates, Jindal (India) Limited is engaged in a diverse portfolio of businesses which have achieved rapid growth over the years. The group was founded in 1952 by Shri B.C. Jindal, and back then the company began its operations as a manufacturer of Steel Pipes and Pipe Fittings.

Since then, the group has diversified into the manufacturing of concentric diversification of Packaging Films, Power Generation, Cold Rolled Steel Strips, GPGC Sheets, Jindalume (Aluminium-Zinc Coated) Coils and Sheets, Pre-painted Color Coated Coils and Sheets (Sabrang & NeuColor+), Metal Crash Barriers, Aluminium Foils, API Coated Pipes, and more.

When we claim to be part of growth story of Indian Steel Industry from the very beginning, we claim it with a solid foundation of 70 years in this industry.

As a renowned producer of Galvanized Plain & Corrugated Sheets, Galvalume and Colour Coated Coils & Sheets, we have earned the trust of our customers across the globe, from Latin America to countries in the Far East.

With a wide product range starting from ½" and going up to 20", Jindal India has become a significant player in the ERW Galvanized & Black Pipe segments, successfully serving some of the biggest players in the Oil & Gas industries with supplies of pipes up to APIx70 grade.

Another highlight from our product portfolio is the Aluminium Foil. We have the backing of being the only manufacturer in the country to produce foils with 5 micron thickness, and are soon going to be the only producers of 4 micron thickness foils, making us one of the pioneers of the Aluminium Foil industry in India.

We have made an effort to employ the best technology ensuring the widest product range with the finest quality. With our constantly developing product portfolio, and consistent up-gradation we strive to win the confidence of our customers all over again, all while upholding our illustrious legacy.

# EMPLOYING THE FINEST TECHNOLOGY

## COLD ROLLING MILLS

**We have four state-of-the-art cold rolling mills with capacities as below:**

Thickness Range: 0.25 mm Lowest  
Width: 900-1460 mm  
Input Coil Weight: 24 MT Max  
Mill Speed: 800 MPM  
Production Capacity: 15,000 MT/Month  
Make: Esmech

Thickness Range: 0.10 mm Lowest  
Width: 900-1050 mm  
Input Coil Weight: 22MT  
Mill Speed: 1200 MPM  
Production Capacity: 9,000MT/Month  
Make: Flat Products

Thickness Range: 0.10 mm Lowest  
Width: 900-1050 mm  
Input Coil Weight: 20 MT Max  
Mill Speed: 1200 MPM  
Production Capacity: 9,000 MT/Month  
Make: Flat Product

Thickness Range: 0.25 mm Lowest  
Width: 700-1600 mm  
Input Coil Weight: 35MT  
Mill Speed: 1400MPM  
Production Capacity: 22,000MT/Month  
Specialty: Auto Shape, Auto Gauge, Auto Flow Control  
Make: Jhon Cockrail



# GALVANIZED PLAIN & GALVANIZED CORRUGATED (GPGC)

## COILS AND SHEETS

Jindal (India) Limited produces hot dipped galvanized coils in accordance with international standards, JIS G3302 (Grade SGCH, SGCC), ASTM A653, and IS 277. The products have excellent corrosion resistance and workability.

The Degreasing Section helps with the removal of oil and dirt by a cascaded process of hot alkaline degreasing, cold rising, hot rising, and hot air drying. This is followed by annealing which is done in an electrically heated horizontal furnace operated under a protective atmosphere with a calibrated ratio of nitrogen and hydrogen generated in a state-of-the-art automated Protective Gas Plant using ammonia and air as primary raw materials.

Hot dip galvanizing of the strip is carried out by immersing it in a zinc bath maintained at 4600 centigrade. The chemistry of the bath is carefully controlled to ensure proper adhesion and formability of the applied zinc together with bright blemish-free uniform spangles. The galvanized coils are chromated to improve its resistance to white rust. The chromating parameters are continually monitored and sheets are regularly tested through salt-spray tests to ensure the performance of this process. We can also provide galvanized plain and corrugated sheets with the required length. Galvanized corrugated sheet can be produced with closed tolerance of standard depth, pitch and width.



**Galvanized Corrugated Sheets**

# GALVANIZED STEEL

## Coils & Plain/Corrugated Sheets Specifications

<b>Thickness Range</b>	0.15 mm to 0.60 mm
<b>Width Range</b>	750 mm to 1000 mm
<b>Coating Thickness</b>	Upto Z - 180
<b>Tension Leveller</b>	Yes /as per customer requirement
<b>Strength</b>	250 MPa to 550 MPa as per requirement
<b>Production Capacity</b>	1,00,000 MT per annum

<b>Product Tolerances</b>	<b>Grades</b>
<b>JIS G 3302</b>	SGCC-RCX, SGCH-RCX, SGC570
<b>*ASTM A 653/ A653 M</b>	CS A, CS B
<b>*DIN EN 10346</b>	DX51D, DX52D, S350GD, S550GD
<b>AS1397</b>	G250, G300, G350, G550
<b>IS277</b>	GP, GPH, GC, GPL, GPD

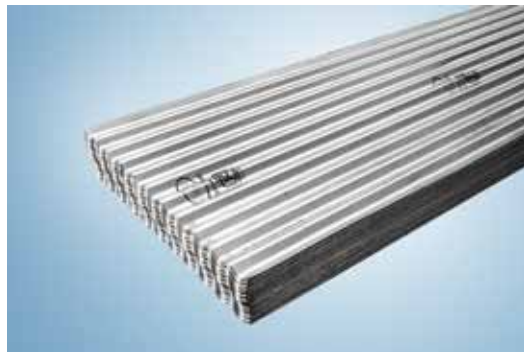
# GALVANIZED STEEL

## Applications



# JINDALUME

## Aluminium-zinc Coated Coils & Sheets



Jindalume, a range of Aluminium Zinc Coated Coils and Sheets, as produced by Jindal India Ltd, is a product being developed to enhance the corrosion resistance property of Steel Sheets for outdoor applications. The cold rolled steel with required mechanical properties as per our customer's needs, will be passed through a degreasing section and heated up to 650 degrees in a continuous furnace before being dipped into a molten bath with chemistry of 43.5% Zinc and 55% Aluminium. While Zinc will ensure adequate sacrificial property to retard corrosion through any contact with foreign elements, Aluminium will resist atmospheric corrosion by forming a barrier.

The combination of Aluminium and Zinc (along with 1.5% Silicon) drastically improves the overall corrosion resistance of the material, thus safeguarding steel for a very long time. Studies have shown that Aluminium Zinc Coating (represented by AZ) of AZ150 can provide 4 times more corrosion resistance than Galvanised (Represented by G) coating of Z275. The product range of Jindalume will cover an entire gamut of requirements. This will probably be one of the very few lines in the world which can produce Alu-Zinc coated steel with width up to 1500 mm.



# JINDALUME

## Coils & Sheets Specifications

<b>Thickness Range</b>	0.15 mm to 0.80 mm
<b>Width Range</b>	750 mm to 1440 mm
<b>Coating Thickness</b>	Upto AZ - 150
<b>Skin Pass</b>	Yes /as per customer requirement
<b>Tension Leveller</b>	Yes /as per customer requirement
<b>Anti Finger Coating</b>	Yes /as per customer requirement
<b>Strength</b>	250 MPa to 550 MPa as per requirement
<b>Production Capacity</b>	4,50,000 MT per annum

<b>Product Tolerances</b>	<b>Grades</b>
<b>JISG 3321</b>	SGLCC, SGLC570
<b>* ASTM A 792/A 792 M</b>	CS A, CS B, SS 55, SS 80 – Class
<b>*DIN EN 10346</b>	DX51D, S550GD
<b>AS1397</b>	G550
<b>IS277</b>	GP, GPH, GC, GPL

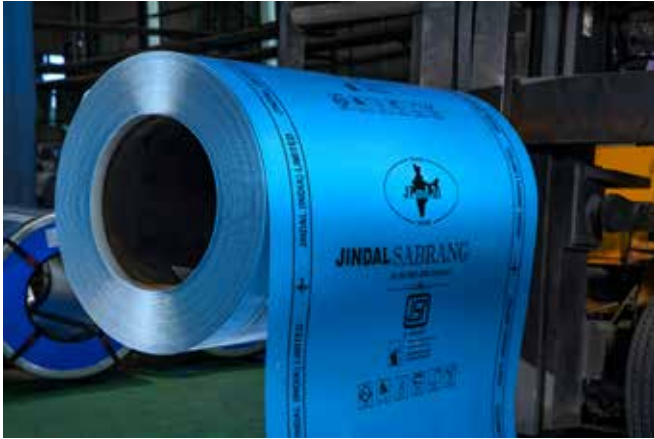
# JINDALUME

## Applications



# SABRANG

## Colour Coated Coils & Sheets



Steel has often been associated with strength and durability when it comes to the business of construction and fabrication. However, steel has never been linked to colourfulness. With Jindal Sabrang, we are about to change that! This latest offering from Jindal India is an attempt to add the colours of elegance to the monotonous world of steel. Sabrang is a Sanskrit word which means a 'rainbow of colours'. Jindal Sabrang will not only make the look of the product more appealing and pleasing but it will also increase the life of the roof as aluminium adds an additional layer for protection from corrosion over zinc-coated steel.

In the process of colour coating, Alu-Zinc coated steel sheet is first treated with a chemical to remove all impurities from the surface. It is later coated with chromate solution which enhances the surface quality and prepares it for the next operation. After chromate coating, the sheet is coated with a primer which acts as a bond between the steel surface and the final colour layer, and also helps in a uniform covering of the steel surface.



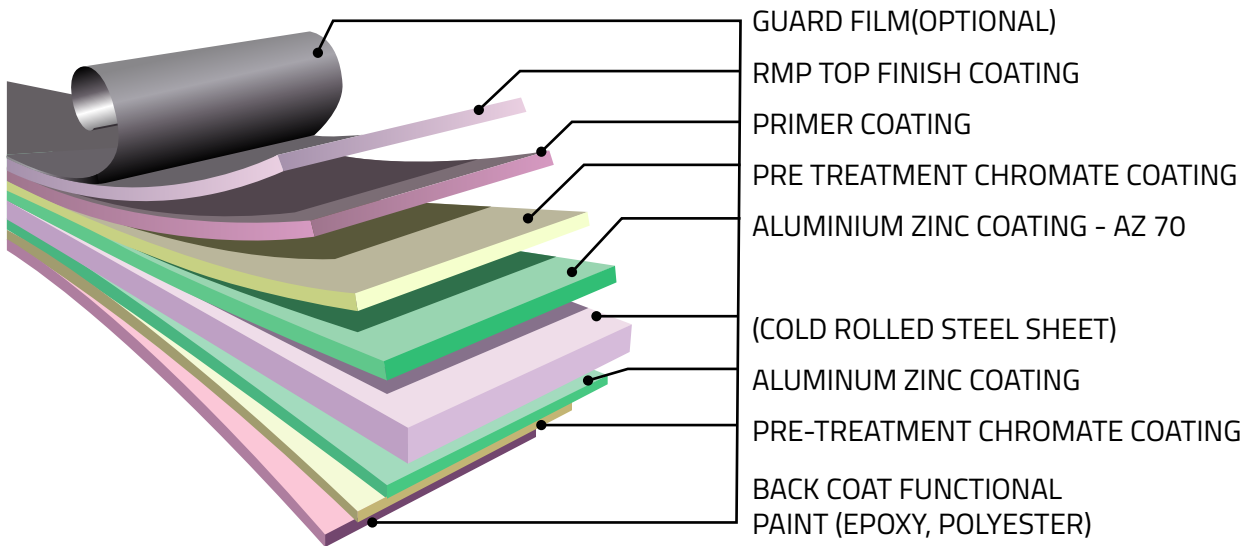


**JINDAL SABRANG**



# SABRANG COLOUR COATED COILS & SHEETS

## Technical Specifications



<b>Thickness Range</b>	0.20 mm – 0.90 mm
<b>Width Range</b>	900 mm to 1440 mm
<b>Coating</b>	AZ 70
<b>Base Substrate</b>	Alu Zinc coated Steel
<b>Primer</b>	5 microns top , 3 microns back side
<b>Top Coat</b>	15 microns
<b>Back Coat</b>	5 microns
<b>Colors</b>	Top Coat - All colors as per customers requirement Back Coat – Jindal Grey ( RAL 7035)
<b>Paint System</b>	RMP

**NEW  
LAUNCH**



**NEUCOLOR+**

**now with 15 years warranty  
\*with SMP paint system**

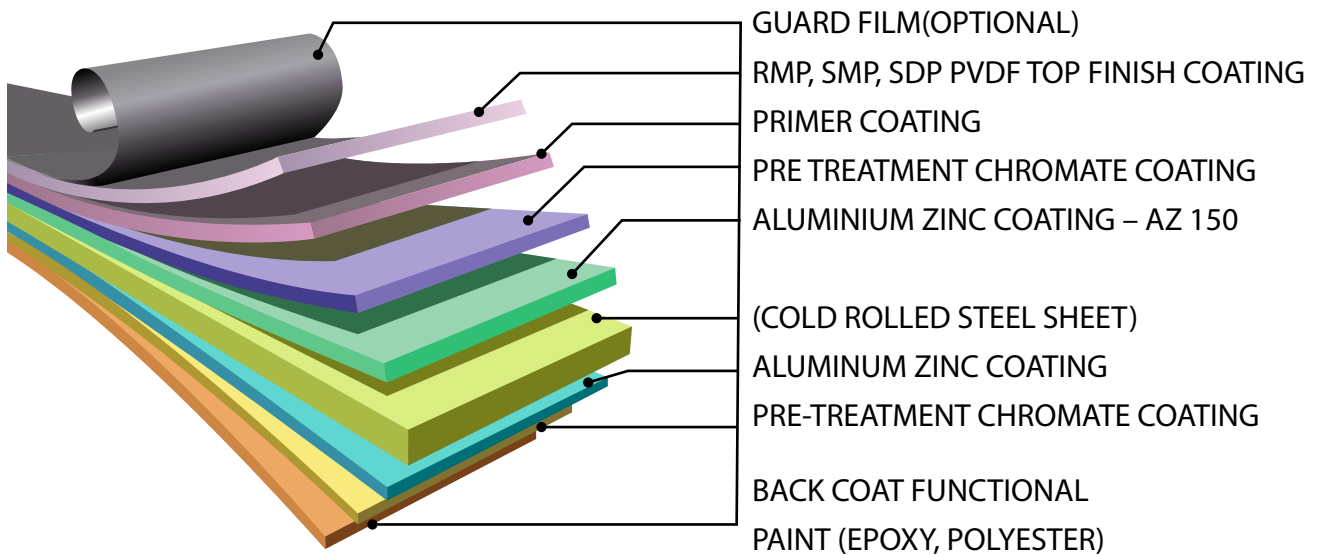
Jindal NeuColor+ is an advanced technology-enabled color steel sheet for the building and construction industry best suited for applications that demand high durability.

It has been designed to provide the legendary strength of Jindal steel combined with better aesthetics for that awesome visual appeal.



# NEUCOLOR+ COLOUR COATED COILS & SHEETS

## Technical Specifications



<b>Thickness Range</b>	0.20 mm – 0.90 mm
<b>Width Range</b>	900 mm to 1440 mm
<b>Coating</b>	AZ 150
<b>Base Substrate</b>	Alu Zinc coated Steel
<b>Primer</b>	5 microns top , 5 microns back side
<b>Top Coat</b>	20 microns
<b>Back Coat</b>	5 microns
<b>Colors</b>	Top Coat - All colors as per customers requirement Back Coat - Jindal Grey ( RAL 7035)
<b>Paint System</b>	RMP, SMP, SDP PVDF TOP FINISH COATING

# NEUCOLOR+ COLOUR COATED COILS & SHEETS

NEUCOLOR+ is a premium product from Jindal (India) Limited, designed to have a longer product life. The superior technology that is used for painting Neucolor+ includes SMP, SDF and PVDF in addition to RMP. This special coating makes the Neucolor+ product last for years together.

## HIGH DURABILITY

Higher corrosion resistance makes Jindal Neucolor+ suited for applications where high durability is required for both roofing and wall cladding. Its excellent all weather character makes it an ideal choice for premium projects which have to

## LESS ENERGY REQUIREMENT

The special coating on Jindal Neucolor+ helps absorb less heat resulting in keeping the space below more insulated from direct sun. This translates into lesser energy consumption. The maximum temperature of the roof also goes down

## ARCHITECT'S & USER'S DREAM

Neucolor+ is a dream product for architects, builders and owners offering a strong and aesthetically pleasing product for any type of building and conditions. Its very versatile and lightweight making it an ideal choice.

### Resistance to **Colour Change**

The unique composition of the paint includes SMP, SDF and PVDF in addition to RMP that do not break down easily even under severe UV radiation, thus preventing fading and chalking and long usage.

### Wide range of **Colour Choices**

NeuColor+ is available in a wide range of colours to match the architects, builders and owners creativity. These eye catching colors create a look that makes it stand out.

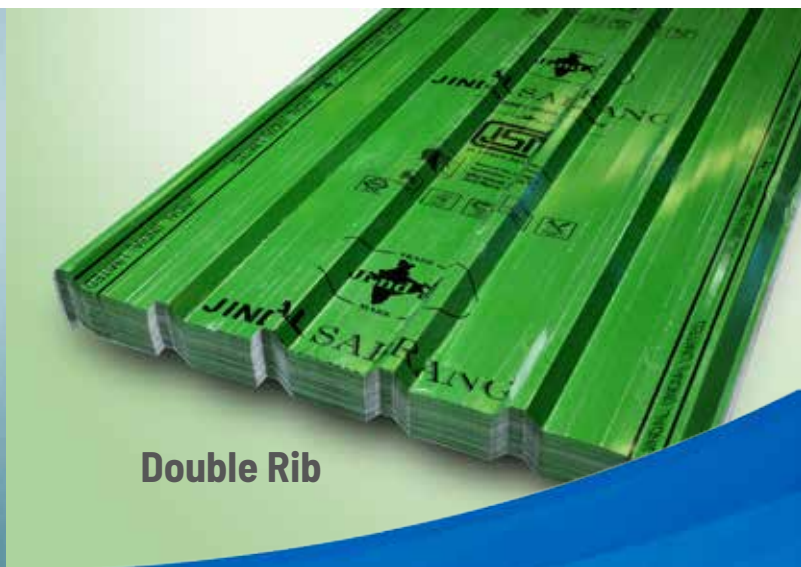
# COLOUR COATED SHEETS SPECIFICATIONS

## Trim Trap Profile & Double Rib Profile

COMMON FEATURES			
Thickness	0.3 to 0.9mm		
Surface Treatment	Guard Film, Application (optional)		
Hardness	Available in 300 MPa and 550 MPa		
Coating Type	RMP, SMP, PVDF, SDP		
TRIM TRAP PROFILE		DOUBLE RIB PROFILE	
Cover Width	1015/1218mm	Cover Width	992.5/1191mm
Total Width	1080/1283mm	Total Width	1055/1254mm
Pitch	203mm	Pitch	198.5mm
Depth	27.5mm	Depth	30mm
Number of crests	6/7	Number of crests	6/7
ADVANTAGES			
✔ Less no. of sheets required	✔ Withstands wind velocity of up to 180km/hr	✔ Reduced labour cost	✔ Improved strength and durability
✔ Advanced design for better strength	✔ Suitable for all weathers	✔ Perfect overlapping for ideal waterproofing	✔ Available in various colours and thickness
✔ High tensile strength 550 MPA+			



Trim Trap



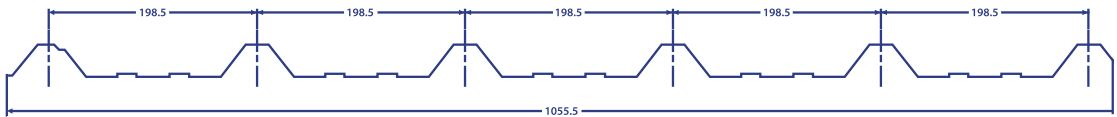
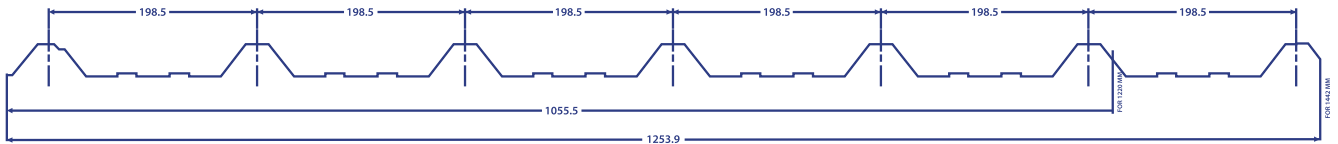
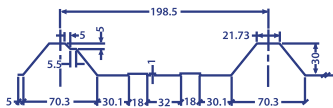
Double Rib



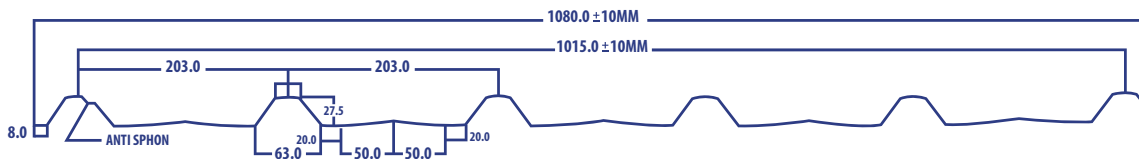
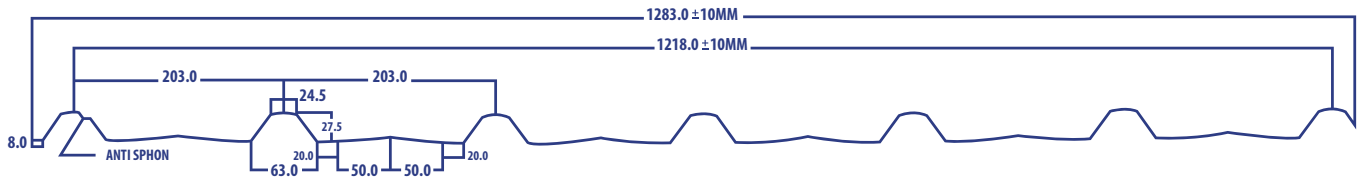
# COLOUR COATED SHEET

## Specification

Colour coated sheets are available in 2 different profiles as per below profile diagrams



**PRODUCTS PROFILE : DOUBLE RIB**

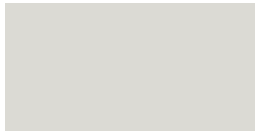


**SHEET THICKNESS 0.30mm to 0.70 mm**

**SHEET WIDTH 1220 to 1442 mm**

**PRODUCT PROFILE : TRIM TRAP**

# COLOUR CHART



Off White



Turquoise Blue



Sky Blue



Royal Blue



Pepsi Blue



Mist Green



Turquoise Green



Hulas green



Environment Green



Caulifield Green



Brick Red



Seco Red



Wine Red



Chocolate Brown



Pencil Grey

## COLOUR COATED LINE

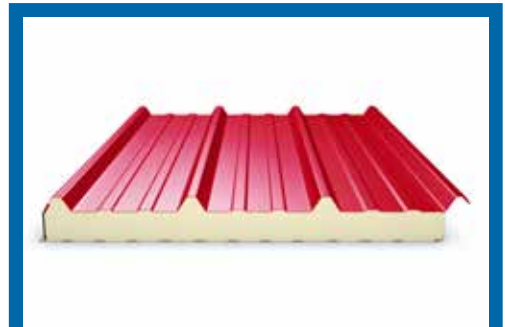
### Applications



Roofing & Cladding



Consumer Goods



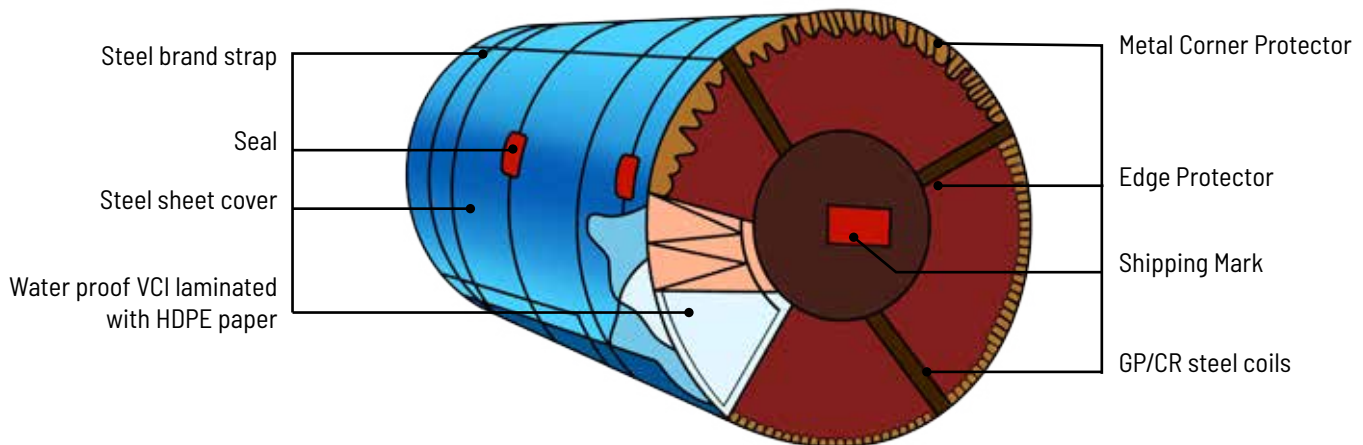
Sandwich Panels

# PACKAGING & MATERIAL HANDLING

Coils are wrapped with VCI / HDPE packed with galvanized iron sheets on OD (outer diameter) and side of the coils with high tensile steel strapping with a metallic seal. Eye to sky coils are kept on wooden skids.

Sheets are stacked on wooden crates wrapped with VCI / HDPE material packed with galvanized iron sheets and tightened with high-tensile steel strap with a metallic seal. Edges of sheets are protected with edge protectors. Identification tags are placed on packed bundles.

Export Packing: Steel coil in vertical form (eye to sky), horizontal coil form (eye horizontal) and sheet form are sent in containers as cargo from the plant (please see below). These containers are loaded, lashed, and choked in the plant based on the recommendations of the Shipping Line, under the guidance and strict supervision of our personnel. In accordance with Quarantine Laws, wood, such as dunnage and crates are fumigated under the ISPM - 15 Standards with Methyl Bromide and/or is Heat Treated before being used. Special care is exercised to ensure that the entire weight of the cargo is equally distributed on the floor of the container. This is then lashed and choked properly to withstand both road and sea transportation.



# QUALITY CONTROL & TESTING

Our utmost dedication to quality shows in every department, process and product we manufacture. We ensure that nothing but the best gets delivered to our consumers. From research and development to production and delivery, stringent checks ensure that there is never a compromise on quality.

On-line inspections ensure adherence to quality of our processes and help deliver high quality products that meet international standards. In addition to the on-line inspection, the quality of our material is measured by the following properties:

- ✓ Hardness of the base metal
- ✓ Mechanical properties of base metal
- ✓ Zinc Coating
- ✓ 180° Bend Test
- ✓ Paint coating thickness as DFT
- ✓ Hardness & Gloss of paint
- ✓ Flexibility of paint as 'T' bend Test
- ✓ Impact Test of painted material
- ✓ Solvent Rub Test as "MEK test"
- ✓ Computerized Colour Matching

In conjunction with the above tests, long term tests are also carried out within a specified frequency.

- ✓ Salt Spray Tests
- ✓ Humidity Test
- ✓ QUV Test

Quality checks of raw materials are carried out prior to processing to ensure the integrity of the finished product.

During the colour coating process, we carry out visual inspections and laboratory tests of the sample, over and beyond strict on-line checks; once approved we issue warranty certificates for our products.

## The promise of authenticity

SABRANG JINDAL INDIA LTD 0.50MM TCT PPGL AZ--70 550MPA ISI5965:2012



**Jindal (India) Limited**  
ISO 9001:2015 company



**JINDAL SABRANG**



**NEUCOLOR+**

NEUCOLOR+ JINDAL INDIA LTD 0.50MM TCT PPGL AZ--150 550MPA ISI5965:2012

# Other Featured Products

## **ERW, API, Coated Pipes & Crash Barrier**

The modern tubes and pipes industries in India owe its origin to the grand vision of the Late Shri. B.C. Jindal. He envisioned a self-reliant tomorrow for India's steel industry and began the journey for the development of steel pipes back in 1952.

Jindal (India) Limited as a company with a volume of 6,00,000 MT per annum, with units at Jangalpur and Ranihati Works, Howrah, West Bengal produces ERW - MS, GI, and Section Pipes, API 5L & 5CT pipes from ½" to 20" diameter with thickness 1.2 mm to 14.3 mm; all conforming to National and International Standard/Specifications.

Jindal (India) Limited is expanding and building its presence across all the facets & corners of the infra business across the globe. Metal Beam Crash Barrier, Swaged Tubular Poles, Railway Mast, Square & Rectangular hollow-section, and many more products are being developed to enhance our expertise and project us as one of the leading infra solution providers across the world apart from our regular products of API Pipes, ERW Pipes.

Jindal (India) Limited has successfully supplied its range of existing products to many parts of the world with its Quality Supremacy, Technical Expertise, and Modern State-of-the-art facilities to fulfil customer requirements with utmost satisfaction, and continues to do so with plans of expansion and enhanced product capacity in the future.



**API Pipes**



**Crash Barrier**

# Other Featured Products

## Aluminium Foil

The Aluminium Foil Division of JINDAL (INDIA) LIMITED started in the year 2011 at the Jangalpur Plant premises. The Production Mills and all auxiliary equipment had been installed with electrical & controls by SIEMENS, India. Subsequently, ACHENBACH ROLLING MILL also added in its production lines to manufacture 24,000 MT per annum of varied products. It can manufacture Ultra Light Gauge (ULG) of minimum 6 microns and goes up to 50 Microns. Presently, the Foil Division is serving the demand of Pharmaceutical, House Foil, Packaging Industry, Air Ducting Industry, and various other sectors.

### Latest and brand new 2 mills from AB Germany, Mfg 2012 & 2018

Mill size - 260 & 670 x 1650mm	Max E entry Thickness 0.3mm	Min Exit thickness 2 x 0.005mm	Coil Width 1500 mm max, Coil wt 9 mt max	Mill Speed 1500m/min max	Automatic Gauge Control & Flashness Control by AB optroll 12 SFC
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### Latest AB model of foil separator machine

Max/Min Input width/ 2x 0.006 to 2x 0.040	Core 76mm & 150mm (3"x 6")	Machin Speed 800m/min max	Output reel Dia 600mm max	Min Slitting Width 200mm	Number of cuts 4 (5 upper and 5 lower)
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## **JINDAL (INDIA) LIMITED** **Sheets Division**

**For more information, or any further query, get in touch with us**

### **Registered Office & Works**

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Ph: 033-2669 6319  
9903121333

### **Ranihati Works**

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