

प्रस्तुत छ. नेपालमै नविन प्रविधिद्वारा उत्पादित ग्याल्भालुम तथा रंगीन जस्तापाता

जगदम्बा® सुपर शाइन

प्रिमियम रङ्गिन Al-Zn सिट एण्ड कोइल्स

जीवनभरको मरोसा





Jagdamba Steels Limited is the conception of that prominent business family which has been in steel production and distribution for a long time. Endowed with Pollution Control Devices and awarded with the recognition of ISO 9001: 2015 (Quality Management System, India) and ISO 14001: 2015 (Environment Management System, India), the company has been manufacturing environment-friendly and quality products.

This Veteran company has made history by manufacturing structural steel for the first time in Nepal. The initiation of this innovation has decreased the imports of structural steel from abroad. It has given a whole new dimension and speed to the infrastructural development of the nation. In a short time since its establishment, this company has already earned name and fame through quality production and expresses its commitment towards continuous quality productions in the future too.

The company began in Simara in Bara District, Nepal in the year 1994 with a setup of cross-country mill producing CRT Bars with a capacity of 50 M/T per day. Till date over the period of 25 years, the company has grown over to become the only integrated and the largest steel company in Nepal with a daily production capacity of 3000 MT Rolling Mill TMT.

The company offers a wide range of steel products that includes Steel TMT Rebars, MS Structural, MS Angle, MS Channel, H-Beam, Flat, GI Wire, Barbed Wire, Gabion Box, HR and CR Sheets, Torkari, Wire Rods, Plain Round & Square Rods, Cut & Bend Products etc. The products are manufactured at state-of-the-art modern plants with a prime focus on maintaining the highest standards in quality and make.

The products, Steel Rebars in grades Fe 500 and Fe 500 D are certified by Nepal Bureau of Standards and Metrology by NS :191 Certification and Bureau of Indian Standards (BIS) by ISI Certification IS:1786:2008. GI Wires are certified by NS :161, NS :163/ 2058 Certifications.

Our commitment to offering qualitative wider range of new products has strongly connected us to the lives of people and the nation. It inspires us to achieve excellence in every step we take and contribute to the growth of the steel industry and the nation.

With the same commitment and belief to offer quality and new advanced product to our customer we are pleased to introduce premium Aluminum –Zinc color coated sheets and coils - Jagdamba Supershine and normal Aluminum – Zinc coated sheets and coils, Jagdamba Galva+. It is Nepal's first fully automated new advanced Galvalume line technology product.

Our latest products Jagdamba Supershine and Jagdamba Galva+ production line is standardized with:

- IS 513, Part 1st- cold reduced carbon steel sheet and strip & sheet IS 15961, Hot dip aluminum-zinc alloy metallic coated steel strip & sheet (Plain)
- IS 15965, Prepainted aluminum-zinc alloy metallic coated steel strip & sheet (Plain)
- IS 1161, Steel tubes for structural purpose.

JAGDAMBA[®] SUPER SHINE

PREMIUM Al-Zn SHEET & COILS

Jagdamba Super Shine is a premium Aluminium-zinc color coated Sheet that is elegant and beautiful with same features as of Galva+ coated with superior paint technology that provides additional protection for longer life.



- 
New Advanced Galvalume Line Technology
- 
Durable and Corrosion Resistance
- 
All Weather Protection
- 
Strength
- 
Superior Paint Technology
- 
Stringent Quality Test
- 
Guard Film Coating



1. Nepal's First Fully automated New Advance Galvalume Line Technology with Electrolytic Cleaning, NOF (Non-Ox) Furnace, in-line tension levelling equipment and skin pass mill Process

Jagdamba Steels is the first new Aluminum-zinc coated product manufacturer of Nepal's first fully automated advance Galvalume line manufacturing process. The manufacturing of Jagdamba Galva+ Sheets includes latest global technology and the best machinery process. Electrolytic Cleaning, NOF (Non-Ox) Furnace, in-line tension levelling equipment and skin pass mill to name a few to ensure the highest level of safety, long life and beauty for your home.

Jagdamba Galva+ PROCESS Galvalume Line

The line offered is supplied with an ECL (Electrolytic Cleaning) section which uses alkali solution to clean the strips or any oil residue coming from the cold rolling mill.

The next section is NOF (Non-Ox) Furnace to produce the complete range of soft, semi-hard and full hard coated steel. The furnaces have a direct fired section using LPG burners to bring the strip temperature up to 800 degrees Celsius. The furnace also has an electrically heated holding section required to anneal the strip. The strip passes into the hot-dip induction pot which contains the molten aluminum and zinc alloy.

The aluminum and zinc pre-alloy is made in the pre melt induction pot and is poured through a launder into the main induction pot where the strip is coated. The coating weight is controlled by the accurate air knife system.

The line is equipped with in-line tension levelling equipment and skin pass mill to maintain absolutely flat strip surface and uniform finish before color coat operation.

The line also features chemical coater to coat the strip with organic coating to prevent the strip against white rust.



2. Durable and Corrosion Resistance

The primary benefit of Jagdamba Galva+ is corrosion resistance. Jagdamba Galva+ comes with Anti – Corrosion Technology which is the results of ACRYLIC COATING done in Galva+ that prevents early corrosion of steel and substantially increases the life of the roof. The addition of aluminum increases the coating's corrosion resistance by a factor of two. If the steel panel is in an area where heavy salt-spray and high humidity predominate, Galva+ provides the most robust protection.



3. Aluminium-Zinc Coating

Aluminum-zinc coated Jagdamba Galva+ products offer superior corrosion resistance compared to other coating technologies making your roof last longer even in the harshest of weather conditions.



4. All Weather Protection

Jagdamba Galva+ withstands all kinds of weather be it heavy rains, humid coastal areas, cold snow areas or heat. Jagdamba Galva+ Steel coated with Aluminum-zinc also has superior reflectance in the sunlight. High reflectance reduces heat absorption through the roof panels. With the addition of re-emissive pigments, you will have both energy efficiency and protection from corrosion. With appropriate insulation under the roof, you will reduce cooling costs in the summer and heating costs in the winter. Galva+ is also **RESISTANT TO HIGH TEMPERATURES.**

JAGDAMBA SUPERSHINE

5. STRENGTH

Jagdamba Galva+ does not add significant weight to the steel, retaining the metal's high STRENGTH-to-weight ratio. The coating is every bit as strong and durable as the steel itself. The coating is flexible and will not crack or flake as the sheet metal is bent or formed.

6. Superior Paint Technology

Jagdamba Super Shine, premium color coated sheets, uses a superior paint technology known as REVERSE & FORWARD COATING METHOD and GFG Coates in Jagdamba Galva+ that provides additional protection for longer life. The superior paint technology resists cracking and peeling even of paint. Ordinary paint starts fading very fast and in 1-2 years the roof starts looking dull and old. It ensures that the roof looks new for many years providing additional beauty to your house.

7. Stringent Quality Test

Jagdamba Galva+ and Jagdamba Super Shine goes through more than 10+ and 15+ respective stringent quality tests. PHYSICAL and CHEMICAL test, 180° DEGREE BENDING test, Adhesion test, ANTI FINGER COATING test and ONLINE QUALITY INSPECTIONS to name a few to ensure best quality product is supplied to our valued customers.

9. Eco Friendly Material and Manufacturing Process

Jagdamba Galva+, Premium Aluminum-zinc Sheet and Coils, is made out of 55% aluminum, 43.5% zinc and 1.5% silicon by weight. This means that the composition creates a durable and reusable rooftop providing you with robust protection from humidity or any kind of harsh weather and corrosion. This product passes through salt spray test and archive more than 800 hours, however in case of Galvanizing it is only 72 hours.

9. Guard Film Coated

The Jagdamba Supershine features 8 Layers of protection. The top and bottom are layered with 4 layers each to ensure longevity. The layers have been carefully crafted to ensure the best quality available in Nepal. A Protective Guard Film is applied to Jagdamba Supershine's top coat layer to prevent possible damage during handling and storage.

10. Proper Corrugation Overlapping

The Jagdamba Galva+ and Jagdamba Supershine's proper groove finishing makes it easier during installation and prevents the roof from leaking.

11. Proper Packet Packaging

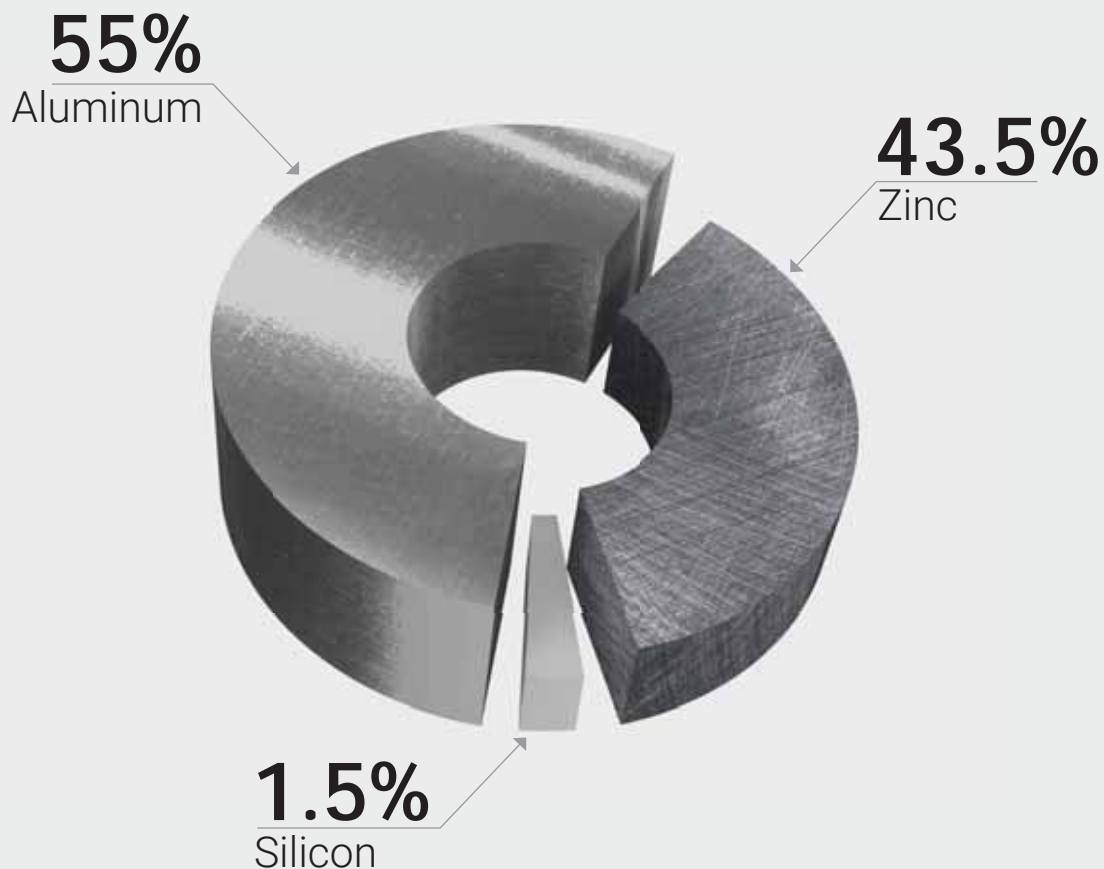
To ensure that our product reaches our consumers in a well-packed condition from our retail outlets, Jagdamba Galva+ and Jagdamba Supershine are well-packaged so as not to suffer any physical damage during delivery.





JAGDAMBA GALVA+

Jagdamba Galva+, Al - Zinc Coated Sheet also known as **GALVALUME**, is a steel sheet with a coating consisting of 55% aluminum, 43.5% zinc and 1.5% silicon over the base metal to protect it from the elements. This coating has superior corrosion resistance which gives it two to four times the life span over traditional galvanized metal. Jagdamba Galva+ is a new benchmark/ quality standard in the advanced roofing industry in Nepal created to protect metal (primarily steel) from oxidation using Aluminum-zinc Coating. Therefore, aluminum is what differentiates Jagdamba Galva+ from normal Galvanized steel available in Nepalese market.



Proper Installation and Handling



Groove Installation

The groove part must be placed inside so that the air gap on the left won't allow water to travel upward via the capillary system.



Clean surface after installation

Construction waste like metal dust from sawing, drilling, and other construction processes will form red rust on the surface which will stain and discolor the surface of colored sheets.



Use Soft Shoes

Shoes with solid soles or spikes will damage the sheets, so it's crucial that workers assigned for installation should wear soft shoes.



Clean regularly

Proper cleaning is required for sheets to maintain and increase their durability. Dirt accumulation on the sheets will degrade their quality and lifespan.



Improper Groove Installation

The Groove part shouldn't be placed outside because this wrong fit might result in water leakage.



Avoid contact with cement

Color coated sheets will face rapid corrosion if placed in direct contact with cement due to the lime present in it.



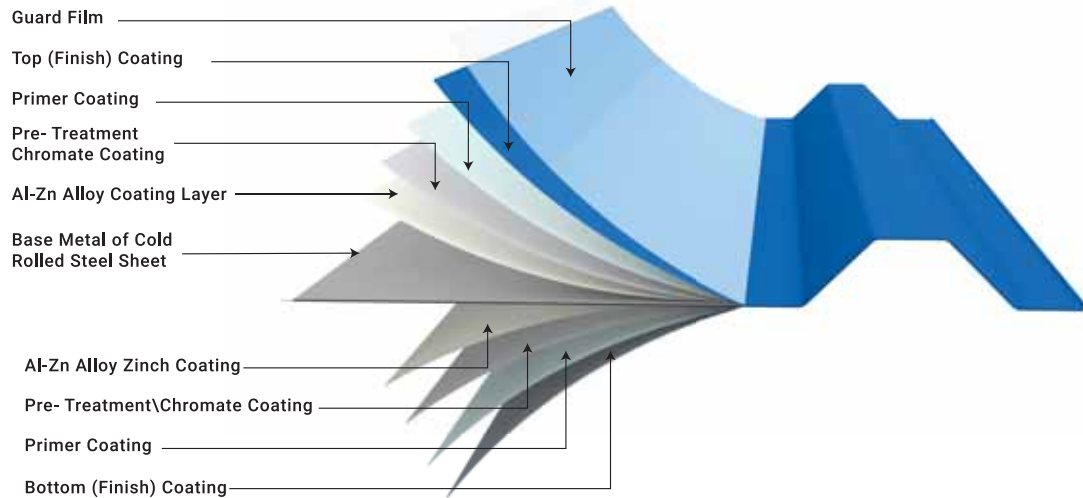
Avoid installation in rain

Avoid installation during rain or rainy season because water makes sheets get wet and slippery which might result in accidents or sheet damage.



Material Structure

Our Color Coated Jagdamba Super Shine Corrugated Sheets are manufactured using Prepainted Aluminum-zinc color coated sheets as the raw material, combined with a high quality, suitable and economical paint. With imported production lines, we are able to produce adequate amount of steel corrugated sheets as aesthetics, good quality and economical light weight, high strength product to satisfy large scale market demands as well as to model your dream structure. Our Trapezoidal Profile is excellent for Roofing and Cladding.



APPLICATION



Roofing and Siding Applications



Unexposed Automotive Parts



Appliances



Furniture



Outdoor Cabinetry



Computer Cases



Gutters

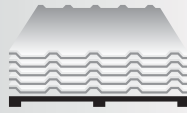


Pipes

Handling Procedure for Storage



When storing sheets outside, keep them dry by covering them with water-resistant materials.



Materials that won't be used right away should be kept one foot off the ground to preserve them from dust, moisture, and sunlight.



Store with excellent water drainage and a sloping surface.



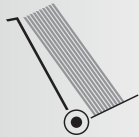
Regularly check the storage items; if any dust, moisture, etc. are on the sheet, remove them right away.



As soon as a product that is stacked or wrapped in a bundle gets wet, separate it. Clean it off with a soft cloth, then stack it to completely dry.



To prevent damage, the sheet needs to be handled gently.



While unloading the sheets, use a protective tool to prevent scratches.



Wear safety gear such as hand gloves and shoes while lifting.

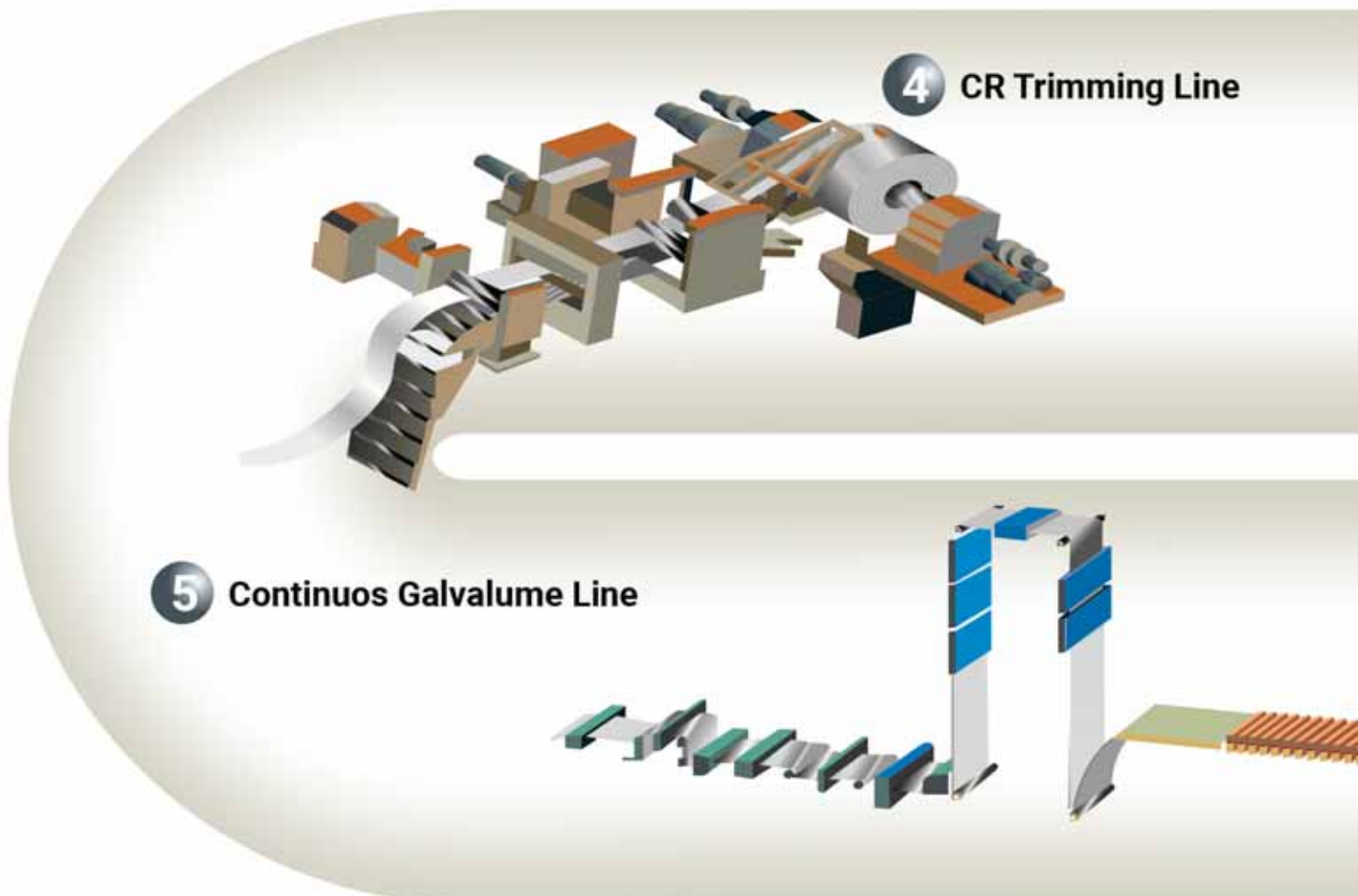
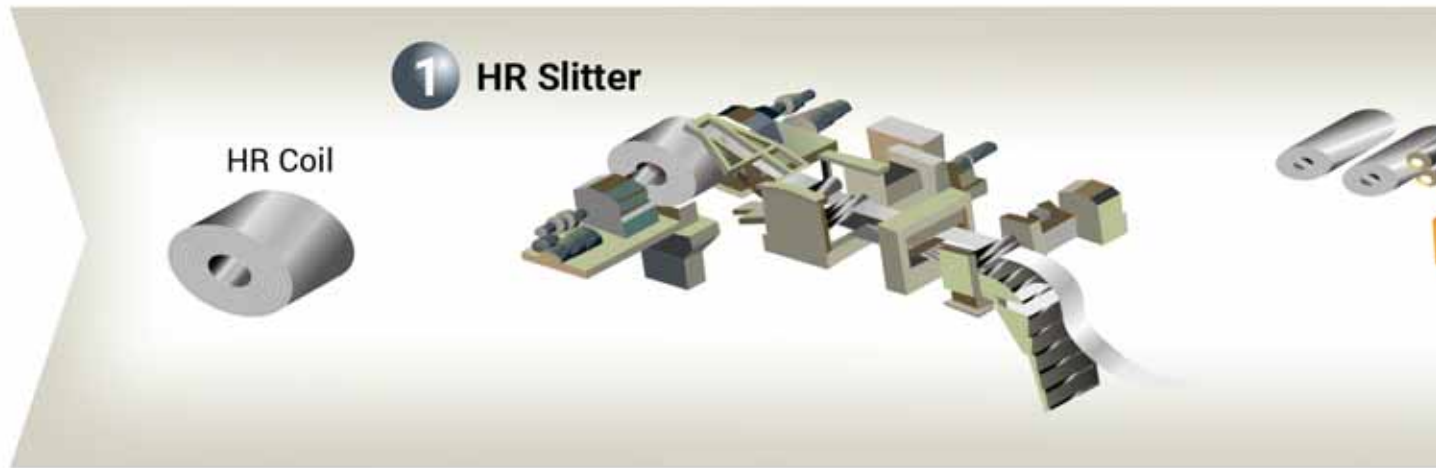


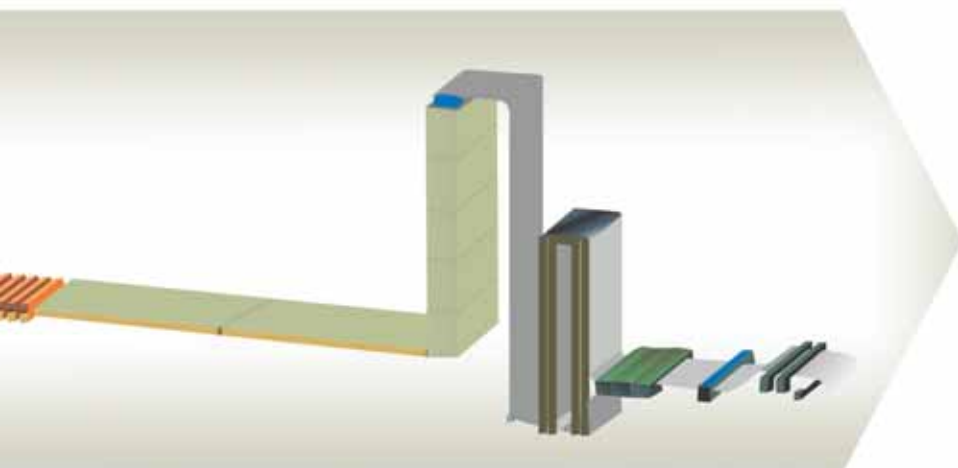
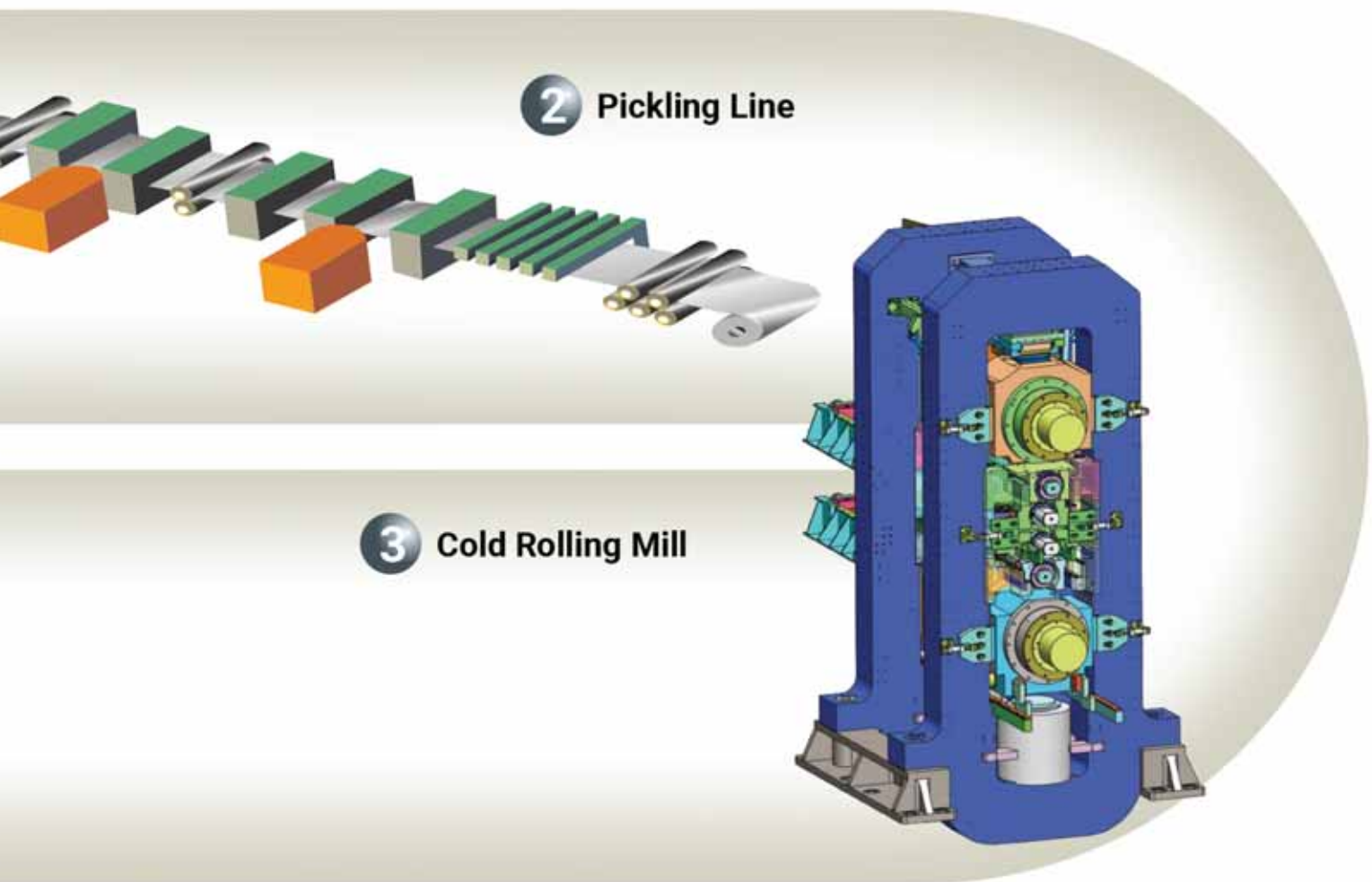
Keep the sheet away from direct soil contact.



Avoid sliding sheets over uneven surfaces.

Manufacturing Process





**Jagdamba
Galvalume Coils**



Installation Procedure

- 1 All tubes, trusses, angles, and channels should be painted before the sheet is installed.
- 2 After installation, take off the Guard Films right away.
- 3 The nails and rubber seals for the fittings should be of standard quality or appropriate for the color sheet.
- 4 Always install the sheet at a 45 or 60-degree angle.
- 5 Protect the sheet from moisture, acid or alkali fumes, and cement.
- 6 Please wash your sheets immediately if they contain debris like dust.
- 7 Do not place any scraps or sharp objects on sheets.



Different Designs

A) Normal Coil & Sheet

Jagdamba Pre-Painted Galvalume (PPGL) Coils

Jagdamba Pre-Painted Galvalume Coils also known as PPGL-Coils are processed by coating with aluminium, zinc, and silicon. More precisely, the ingredients of the galvalume steel Coils have at least 55% aluminium and 43.5% zinc, with the rest being silicon and other elements. PPGL Coils are more durable and Corrosion resistant in comparison to PPGL (Pre Painted Galvanized) Steels Coils.

A number of kitchen appliances such as Ovens, Ranges, Sinks, Kitchen Units, Shelves, Toilet Strands, and Cooker Wrapper also need PPGL Coils for manufacture. The Agriculture Industry also uses PPGL Coils for making Drying Machines, Farm Equipment, Greenhouses, Silos, Barns, and Sheds. General everyday products like Vending Machines, Display Cases, Cans, Bins, and Signboards also need PPGL Coils for preparation.



1) CR Coil



Width
750 → 1250 mm



Thickness
0.12 → 1.20 mm



Grade
Full Hard



Different Designs

2) CRCA Coil & Sheet



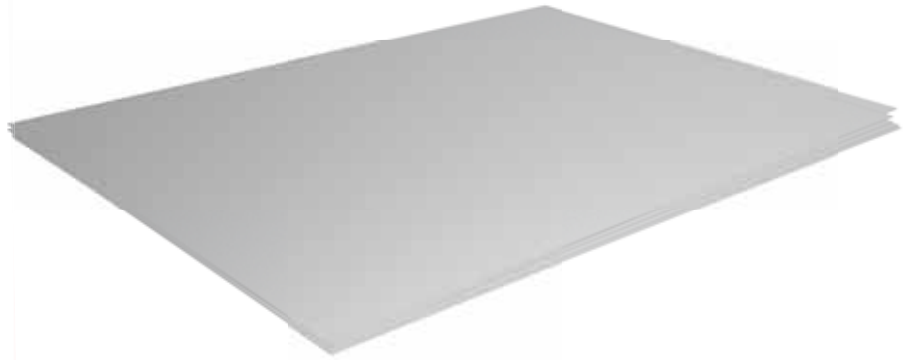
Width
750 → 1250 mm



Thickness
0.20 → 1.20 mm



Grade
Soft (50 to 60 HRB)



3) HR Sheet



Width
910 → 1250 mm



Thickness
1.2 → 12.0 mm



Grade
Full Hard



4) Chequered Plate



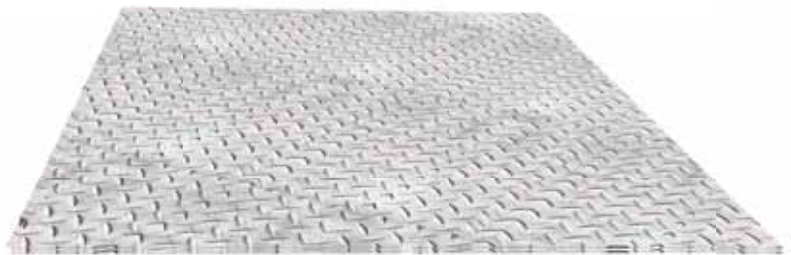
Width
1250 mm



Thickness
2.0 → 12.0 mm



Grade
-



B) Jagdamba Galva+

1) Galvalume Coil



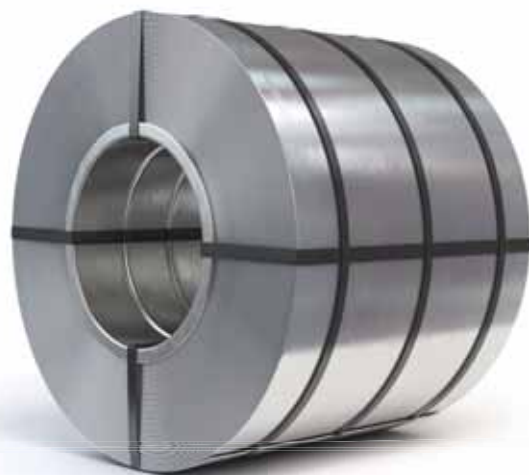
Width
750 → 1250 mm



Thickness
0.17 → 0.70 mm



Grade
Full Hard & Soft



2) Galvalume Plain Sheet



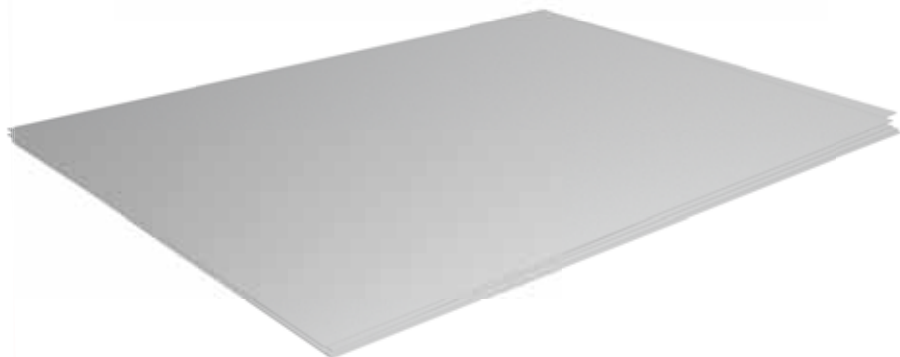
Width
750 → 1250 mm



Thickness
0.17 → 0.70 mm



Grade
Full Hard & Soft



3) Galvalume Trapezoidal (H-span) Sheet



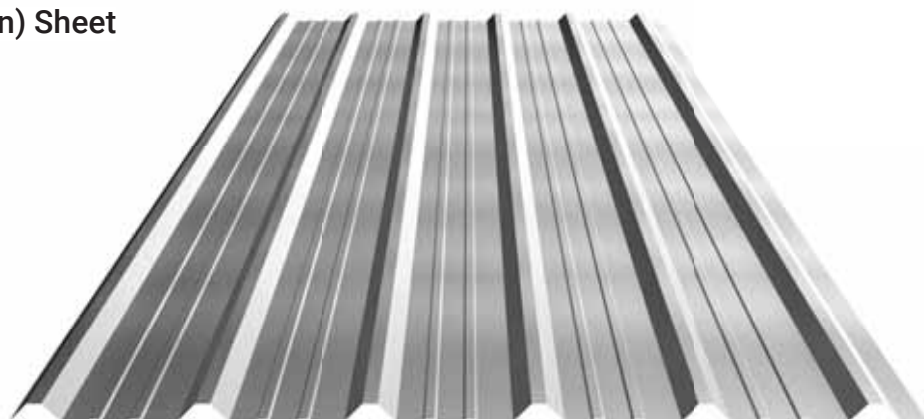
Width
1000/1220/1250 mm



Thickness
Full Hard = 0.25 → 0.60 mm
Soft = 0.40 → 0.80 mm



Grade
Full Hard & Soft



Different Designs

4) Galvalume Heritage Sheet



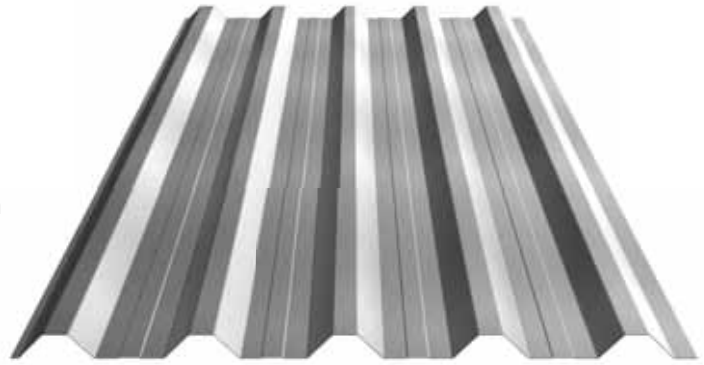
Width
Input = 1000 mm, Output = 860 ± 10 mm



Thickness
Full Hard = 0.25 → 0.60 mm
Soft = 0.30 → 0.80 mm



Grade
Full Hard & Soft



5) Galvalume Corrugated Sheet

a) Continuous Corrugation



Width
Input = 900 mm, Output = 800 ± 10 mm



Thickness
0.25 → 0.60 mm



Grade
Full Hard



b) Barrel Corrugation



Width
600–1220 mm



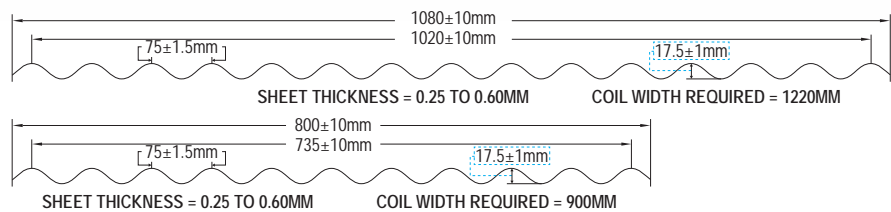
Max Sheet Length
3660 mm



Thickness
0.17 → 0.30 mm



Grade
Full Hard



6) Galvalume Pencil Coil



Size
750 → 1250 mm



Thickness
0.17 → 0.40 mm



Grade
Full Hard, Semi Hard & Soft



C) Jagdamba SuperShine

1) Color Coated Pencil Coil



Width
750 → 1250 mm



Thickness
0.17 → 0.40 mm



Grade
Full Hard, Semi Hard & Soft



2) Color Coated Coil



Width
750 → 1250 mm



Thickness
0.20 → 0.70 mm



Grade
Full Hard & Soft



3) Color Coated Plain Sheet



Width
750 → 1250 mm



Thickness
0.35 → 0.70 mm



Grade
Soft



Different Designs

4) Color Coated H-Span Sheet



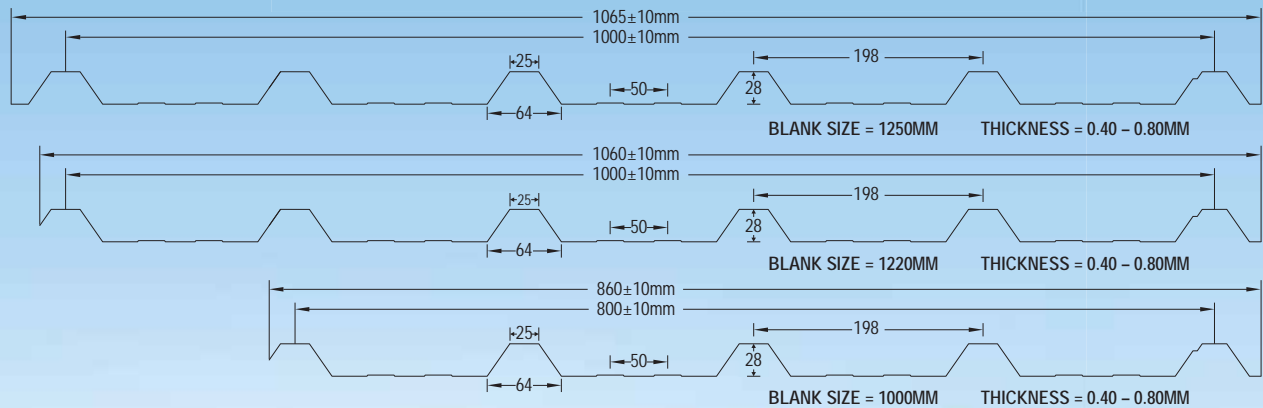
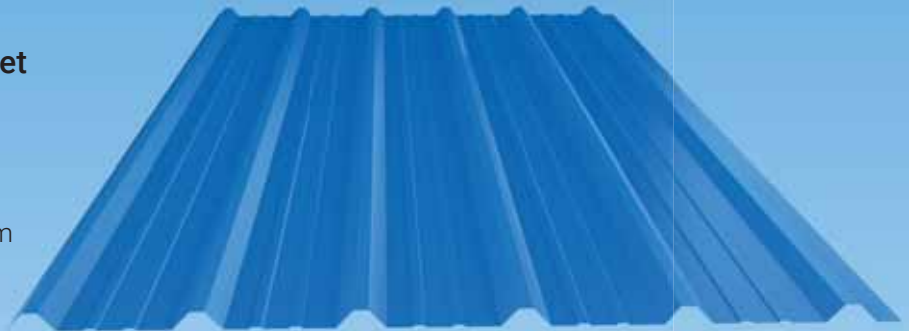
Width
1000/1220/1250 mm



Thickness
Full Hard = 0.45 → 0.55 mm
Soft = 0.40 → 0.80 mm



Grade
Full Hard, Soft



5) Color Coated Heritage Sheet



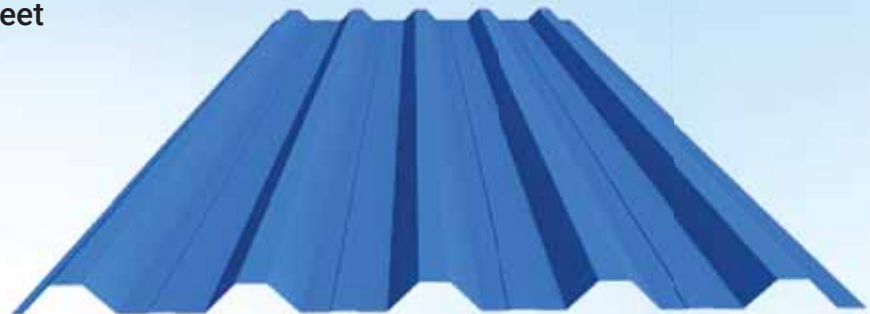
Width
1000 mm



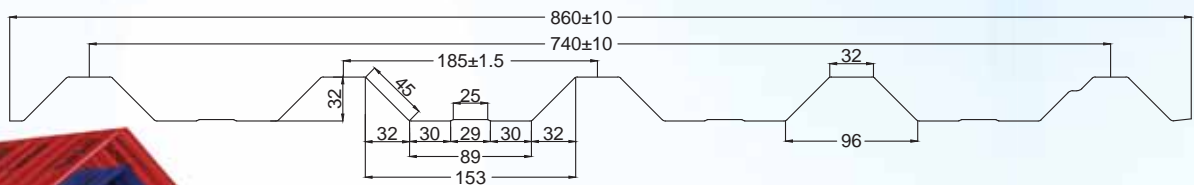
Thickness
0.25 → 0.60 mm



Grade
Full Hard



BLANK SIZE = 990 MM THICKNESS = 0.25 TO 0.80 MM



Tube Mill



Width
15NB → 100NB



Thickness
1.20 → 4.50 mm



Grade
Round/Square/Rectangular



RIDGE COVER

Ridge Cover/caps are hot-dip Galvalume metal sheets designed to cover the PPGL sheets at the top of the roof. They can have many shapes and sizes. It is recommended to use ridge Cover whose wings are 15 cm minimum, in order to ensure a good overlap of the CGI sheets.

a) Manual Ridge Machine



Length
2650 mm (max)



Throat Depth
250 mm



Open Height
335 mm

b) Rolling Shutter Profile Machine



Width
128 mm

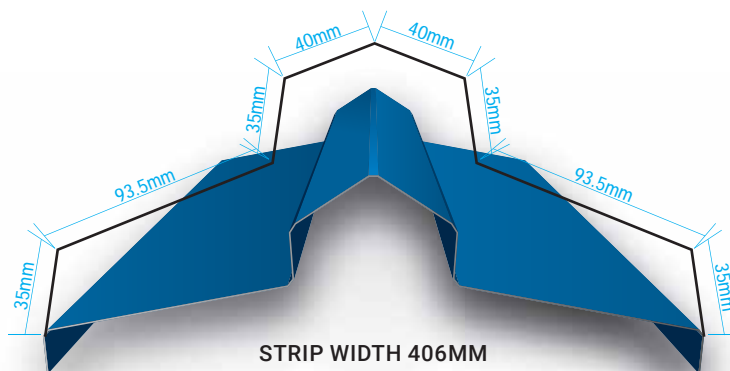


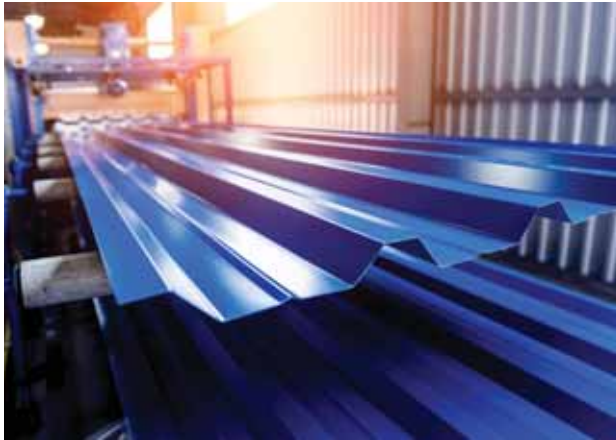
Thickness
G18 → G20 Gauge

c) Rolling Shutter Side Channel Machine ("U" Profile)



Width
185 mm





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