WHEELING-NIPPON STEEL
WHEELING-NIPPON STEEL gained this reputation by being the only steel coating facility in the United States to produce all major hot-dip coated products under one roof. We have now expanded this product universe with the addition of the next generation of coated products ---- ZAM®. This newest product offering raises the bar by setting a new standard for corrosion resistance and positions WHEELING-NIPPON STEEL as the industry leader for the 21st century.

Over the years WHEELING-NIPPON STEEL has taken advantage of the flexibility provided by two fully-computerized coating lines with a broad product base and the capability of reacting to market trends. The AGL has been operating successfully since 1988 and the CGL since 1993. Both multi-product lines have a long standing reputation for producing high quality, cost effective corrosion resistant sheet product.

WHEELING-NIPPON STEEL’s mission is to encourage a concept of continuous improvement among our dedicated employees that translates into providing a superior product to a diverse customer base. A customer base that will expand even more with the introduction of ZAM®.
WHEELING-NIPPON STEEL's hot dipped galvanized sheet boasts superior flatness, a spangle free surface, and excellent drawability. In addition, due to WHEELING-NIPPON STEEL's dual coating lines we have the capability to produce a wide range of sizes and steel grades.

Our galvanized product proves useful in a variety of applications including automotive, roofing, cladding, building panels, doors, door frames, partitions, oil pans, garbage cans, domestic appliances, HVAC, etc.

**THE RUN DOWN**

- **MATERIAL THICKNESS**: 0.008” through 0.130”
- **MATERIAL WIDTH**: 24” through 61”
- **ASTM SPECIFICATION**: ASTM A653
- **STEEL GRADES**: Commercial Steel, Extra Deep Drawing Steel, HSLA Steel Grades, Deep Drawing Steel, Forming Steel, Structural Steel Grades
- **COATING WEIGHT**: G30, G40, G100, G115, G60, G90, G140, G185

(UL and Other Coating Weights Available, Please Inquire)

- **COIL WEIGHT**: 10,000 lbs. maximum through 55,000 lbs. maximum
- **COIL ID**: 20” and 24”
- **AFTER TREATMENT** (UPON REQUEST):
  - Chemical Treatment (RoHS Compliant Available)
  - Oiling
  - Acrylic (RoHS Compliant, Please Inquire)
  - Stenciling

**SIZE CHART**

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**ACTUAL MATERIAL**
GALVALUME®
55% ALUMINUM-ZINC ALLOY COATED SHEET (GALVALUME® PLUS AVAILABLE)

A high level of corrosion resistance, superior flatness, and an excellent surface suitable for painting are a few attributes that characterize WHEELING-NIPPO STEEL's Galvalume® coated product.

This product can be used in a wide variety of applications including roofing, building panels—both painted and bare, wall panels, computer cases, furnace parts, drain pans, microwave oven frames, duct work, etc.

THE RUN DOWN

MATERIAL THICKNESS ▶ 0.008" through 0.068"
MATERIAL WIDTH ▶ 24" through 50"
ASTM SPECIFICATION ▶ ASTM A792
STEEL GRADES ▶ Commercial Steel ▶ Drawing Steel ▶ Structural Steel Grades
COATING WEIGHT ▶ AZ30 ▶ AZ35 ▶ AZ40 ▶ AZ50 ▶ AZ55 ▶ AZ60
(UL Coating Weights Available, Please Inquire)
(AZ50, AZ55, AZ60 Galvalume®)

COIL WEIGHT ▶ 10,000 lbs. maximum through 55,000 lbs. maximum
COIL ID ▶ 20" and 24"
AFTER TREATMENT (UPON REQUEST) ▶ Chemical Treatment (RoHS Compliant Available) ▶ Oiling ▶ Acrylic (RoHS Compliant, Please Inquire) ▶ Stenciling

SIZE CHART

Galvalume® is a registered trademark of BIEC International, Inc.
Coils are continuously fed into the line after any off-gauge sheet is cropped off. A gamma-ray thickness gauge provides the capability to measure and datalog the entire coil's sheet thickness.

Coating weight is precisely controlled by a closed loop computerized control system.

Five remote-controlled cranes hoist the coils with parallel linkage coil lifters and load them in one of our six truck bays.

Reverse roll coating ensures precise coverage of numerous chemicals including RoHS compliant options.

After passing the degreaser, the strip is rapidly heated in the NOF (non-oxygen furnace) and then annealed to specification in the RTS (radiant tube section) all in a reducing gas atmosphere.

Product coils are packed in our logo paper and then stored in our climate-controlled warehouse which is equipped with a KLP® Rollblock System.

Degreaser
Raw material is thoroughly cleaned of contaminants before annealing. This ensures optimal coating adhesion.

Steel strip is dipped into the zinc or zinc-aluminium alloy pot which can be interchanged in a short period of time according to our schedule.

Screwed and Galvalume® Pots
A stainless steel raceway is employed in the equipment to provide a dust-exclusion area according to our schedule.

Continuous and Galvannealed Pots
Screwed and a deposit raceway is employed in the equipment to provide a dust-exclusion area according to our schedule.

Remote Controlled Cranes
Five remote-controlled cranes hoist the coils with parallel linkage coil lifters and load them in one of our six truck bays.

Continuous Annealing Furnace
The degreaser removes the impurities in the strip rapidly based on the HDG process range for steel and then converted into galvaneal in the RTS (radiant tube section) all in a non-oxygen atmosphere.

Carousel Tension Reel
This unique take-up coiler system is efficient and automatically winds the strip without damage or interruption.

Skinpass Mill & Tension Leveler
The 4-High Skinpass Mill provides excellent sheet surface smoothness, texture, and mechanical properties. The Tension Leveler provides optimal sheet flatness. These units are linked and operated by a closed-loop computer control.

Twenty-four hour visual inspection of all coated products ensures consistent high quality.

Metallic Coaters
Fine remote-controlled motors have the coils non-parallel bending and positioning on our wide range.

In addition to coil handling equipment, the interior of the line is equipped with state-of-the-art equipment to ensure best quality and highest efficiency.

Spray Off Reel
Spray-off reel prevents any trace of galvanizing from being baked on.

Air Wiping
Air wiping is provided by high-velocity blowers and automatic dampers to prevent any dust or impurities from being baked on.

Remote Control Console
The remote control console ensures smooth operation.

Electrical Coaters
Electrical coaters provide an even spread of chemical to avoid any leaks and ensure a consistent quality.

Continuous Galvanizing Line
The CGL is designed to produce light-gauge Galvanized and Galvalume® products. Production capacity is about 300,000 tons per year.

Warehouse
Product coils are packed in our logo paper and then stored in our climate-controlled warehouse which is equipped with a KLP® Rollblock System.

Inspection Table
Twenty-four hour visual inspection of all coated products ensures best quality and highest efficiency.

Degreaser
Raw material is thoroughly cleaned of contaminants before annealing. This ensures optimal coating adhesion.

Continuous Annealing Furnace
The degreaser removes the impurities of the strip rapidly based on the HDG process range for steel and then converted into galvananeal in the RTS (radiant tube section) all in a non-oxygen atmosphere.

Continuous and Galvannealled Pots
Screwed and a deposit raceway is employed in the equipment to provide a dust-exclusion area according to our schedule.

Aluminizing and Galvanizing Line
The AGL is a fully computerized multiproduct line by employing the AGL produces Minimum Spangle Galvanized, Galvannealed Type 1 & Type 2, and ZAM®. Production capacity is about 400,000 tons per year.

Continuous Galvanizing Line
The CGL is designed to produce light-gauge Galvanized and Galvalume® products. Production capacity is about 300,000 tons per year.
When paintability is of primary concern, WHEELING-NIPPON STEEL’s galvannealed sheet may be the perfect fit. Our galvannealed material provides a consistent alloy surface ideal for painting in addition to excellent formability, weldability, galvanic protection, and flatness.

Suitable end uses for galvanneal include automotive, highway signage, electrical equipment, doors, door frames, garage doors, molding, trailers, cabinets, etc.

### THE RUN DOWN

**MATERIAL THICKNESS**  
- 0.014” through 0.130”

**MATERIAL WIDTH**  
- 24” through 61”

**ASTM SPECIFICATION**  
- ASTM A653

**STEEL GRADES**  
- Commercial Steel
- Deep Drawing Steel
- Extra Deep Drawing Steel
- Forming Steel
- HSLA Steel Grades
- Structural Steel Grades
- Extra Deep Drawing Steel
- Forming Steel
- HSLA Steel Grades
- Structural Steel Grades

**COATING WEIGHT**  
- A25
- A40
- A60
  
  *(UL Coating Weights Available, Please Inquire)*

**COIL WEIGHT**  
- 10,000 lbs. maximum through 55,000 lbs. maximum

**COIL ID**  
- 20” and 24”

**AFTER TREATMENT (UPON REQUEST)**
- Chemical Treatment *(RoHS Compliant Available)*
- Oiling
- Acrylic *(RoHS Compliant Available, Please Inquire)*
- Stenciling
WHEELING-NIPPON STEEL’s aluminized sheet is recommended for applications requiring severe heat and corrosion resistance. This product also has outstanding flatness and drawability properties.

Example applications include heat exchangers, commercial roof top HVAC units, automotive mufflers, heat shields, ovens, water heaters, baking pans, pipe wrap, culvert, etc.

THE RUN DOWN

MATERIAL THICKNESS ▶ 0.014” through 0.130”
MATERIAL WIDTH ▶ 24” through 61”
ASTM SPECIFICATION ▶ ASTM A463
STEEL GRADES ▶ Commercial Steel ▶ Deep Drawing Steel
▶ Extra Deep Drawing Steel ▶ Forming Steel
▶ HSLA Steel Grades
COATING WEIGHT ▶ T1-13 ▶ T1-25 ▶ T1-40
(Type 2 and UL Coating Weights Available. Please Inquire)
COIL WEIGHT ▶ 10,000 lbs. maximum through 55,000 lbs. maximum
COIL ID ▶ 20” and 24”
AFTER TREATMENT
(Upon Request)
▶ Chemical Treatment (RoHS Compliant Available)
▶ Oiling
▶ Acrylic (RoHS Compliant, Please Inquire)
▶ Stenciling

SIZE CHART
ZAM® is a highly corrosion-resistant hot-dip Zinc-Aluminum-Magnesium alloy coated steel sheet, and WHEELING-NIPPON STEEL is the first company in the United States to produce a zinc-aluminum-magnesium coated product. This amazing product lasts longer in the most severe environments, provides built in cut edge rust protection, and promotes cost savings through less maintenance. ZAM® serves as a self healing, ecologically friendly, alternative to post dip galvanizing.

Suitable applications for ZAM® include architectural building panels, perforated panels, metal facades, roofing, agricultural applications (animal confinement), green house structures, industrial HVAC, solar racking systems, school bus plating, swimming pool, coastal environments, cable trays, steel decking, highway and rail safety equipment, automotive, etc.

**THE RUN DOWN**

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**SIZE CHART**

![Size Chart Image]

Patents have been registered for the product and its manufacturer. ZAM® is a registered trademark of NIPPON STEEL CORPORATION.
WHEELING-NIPPON STEEL is a certified ISO-9001:2008 company assuring continuous improvement, structured operating guidelines, superior quality control, and the highest possible level of customer service.

WHEELING-NIPPON STEEL has also earned the “SHARP” certification from OSHA; this is an achievement of status that singles us out among our business peers as a model for worksite safety and health. WHEELING-NIPPON STEEL’s goal has always been to produce the best possible quality product while protecting the safety, health, and environment of our employees & the surrounding communities.

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