PREMIER STAINLESS STEEL LLC

STAINLESS STEEL

FOR INDUSTRY, INFRASTRUCTURE AND SPECIAL PROJECTS

Stainless steel solutions for industry, infrastructure and special projects.

Tubes • Custom-sized sheets • Coils
Solid bars • Angle bars • Beams



CATALOG 2026

USA + BRAZIL

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COMPANY PROFILE

Precision that supports your project.

Application-oriented commercial service, with a corporate presence in the USA and commercial relationships in Brazil.

Premier Stainless Steel LLC supplies stainless steel for industrial applications, fabrication, assembly and maintenance. Our goal is to simplify specification and make commercial consultation more objective.



Our portfolio serves industries, integrators, metalworking companies and businesses that use stainless steel in production processes, structures, utilities and special projects.

Agility

- Objective commercial response.
- Focus on what must be defined.

Application

- Material explained by real use.
- Practical reading of the requirement.

Flexibility

- Dimensions and finishes on request.
- Projects of different scales.

International positioning

- Corporate base in the United States and commercial relationships in Brazil.
- Service aimed at industrial buyers, engineering, procurement and integrators.
- Portfolio presented by application, grade, format and supply condition.

PORTFOLIO

Main product families for industrial supply.

Formats widely used in fabrication, process, machining and structures.



Tubes

Processes, structures and equipment.



Custom-sized sheets

Cutting, bending and fabrication.



Coils

Transformation and serial production.



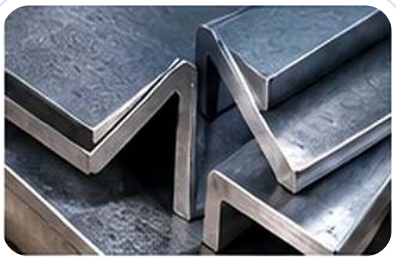
Solid bars

Machining, shafts and components.



Angle bars

Reinforcements, supports and frames.



Beams

Bases and metal structures.

Supply logic

Format + application + grade + finish + quantity + lead time = a more precise commercial consultation.

GRADES AND FINISHES

AISI grades to guide selection.

Final selection depends on the application, environment, temperature, fabrication process and technical project requirements.

AISI 201

- General applications.
- Less aggressive environments.

AISI 304

- Broad industrial use.
- Equipment and structures.

AISI 316

- Higher corrosion resistance.
- Chemical and humid environments.

AISI 310

- Performance at elevated temperature.
- Specific thermal applications.

400 Series

- Family of grades for specific requirements.
- Consultation according to application.

Finishes

- 2B and BA.
- Brushed / No. 4.
- Polished / mirror.

Technical note

- Grade, thickness, finish, tolerance and certification must be confirmed according to the environment, process, drawing and technical supply requirements.

FORMATS

From transformation to industrial execution.

Sheets, coils, tubes, profiles and bars organized by use and supply logic.

Custom-sized sheets

- Bases, panels, tanks and cut components.
- Thickness, dimensions and finish on request.

Coils

- Transformation, profiling and serial production.
- Grade, thickness and width on request.

Tubes

- Round, square and rectangular.
- Lines and structures.

Profiles

- Angle bars and beams.
- Bases and reinforcements.

Bars

- Machining and components.
- Shafts, pins and technical parts.

Quotation checklist

Application • drawing • dimension • thickness • finish • standard • quantity • lead time

PREMIUM INDUSTRIAL SUPPLY

Commercial clarity for technical materials, project routines and industrial supply decisions.

APPLICATIONS

Stainless steel where it creates value.

Examples of sectors where cleanliness, durability and performance are part of the decision.



Food and beverage

Equipment and technical lines focused on cleanliness and durability.



Pharmaceutical

Controlled environments, utilities and technical structures.



Chemical and process

Industrial systems and process support components.



Machinery and manufacturing

Bases, frames, components and production assemblies.

Critical factors

Hygiene and cleaning • corrosion resistance • durability • finish • maintenance • process performance

TECHNICAL DATA

Reference standards and how to specify.

A clear checklist to align procurement, engineering, maintenance and supplier.

Reference standards

- ASTM A240/A240M - sheets, strip and plate.
- ASTM A312/A312M - austenitic stainless steel pipes.
- ASTM A270/A270M - sanitary stainless steel tubing.
- ASTM A554 - welded mechanical tubing.
- ASTM A484/A484M - bars, shapes and forgings.

Before quotation

- Grade and operating environment.
- Dimensions, thickness and tolerances.
- Surface finish.
- Standard and documentation.
- Quantity and lead time.

Useful information

- Application • medium or product in contact • temperature • exposure • drawing or sketch • finish • volume • lead time

Commercial reading

- The more complete the technical context, the more precise the commercial guidance, material selection and supply definition.

Specification summary

- Material: AISI grade, format and finish.
- Dimensions: measurements, thicknesses and tolerances.
- Quality: standard, certificates and traceability when applicable.
- Logistics: volume, lead time and delivery condition.

STRATEGIC PROJECT

Grain silos and storage.

Agribusiness infrastructure connected to producing regions and logistics corridors.





100 Mt

deficit cited per crop cycle, according to the study received

14%

properties with storage structures

US$ 22.1 bn

indicative estimate from the study

Where stainless steel may fit

- Walkways, handrails and exposed components.
- Custom-sized sheets, panels and boxes.
- Bases, supports, piping and auxiliary structures.

Project context

- Study focused on grain storage and logistics.
- Regions cited in the study: MT, MS and PR.
- Historical data should be updated.

Note

The figures on this page come from the document provided by the client and are presented as project context. They should be updated and validated before financial, executive or sizing use.

STRATEGIC PROJECT

Data Centers: critical stainless steel infrastructure.

Potential applications for components, utilities and technical areas with high operational requirements.





Utilities

- Technical piping and utility systems.
- Drainage and auxiliary infrastructure.

Structures

- Bases, supports and frames.
- Secondary structures and protections.

Maintenance

- Handrails, boxes and panels.
- Technical areas and operational access.

Specification

- AISI 304 or AISI 316 according to environment.
- Standard, thickness and finish on request.

Scope under consultation

The silo document does not contain location, volumes or final specifications for the Data Center project. This page presents possible stainless steel applications; these details must be confirmed by the client before any technical or commercial proposal.

TECHNICAL DATA

Thicknesses, sheets and coils.

Dimensional references and theoretical weights for estimating. Confirm tolerances, grade and availability at quotation.

Gauge — stainless sheet

Gauge	in.	mm	kg/m²*
10	0.14062	3.571	28.32
12	0.10937	2.778	22.03
14	0.07812	1.984	15.73
16	0.0625	1.587	12.58
18	0.05	1.270	10.07
20	0.0375	0.953	7.55
22	0.03125	0.794	6.29
24	0.025	0.635	5.04

Custom sheets — calculation examples

Width × length (mm)	Thickness (mm)	Theoretical weight / sheet (kg)
1000 × 2000	1.0	15.9
1219 × 2438	1.5	35.4
1500 × 3000	2.0	71.4
1500 × 3000	3.0	107.1
2000 × 6000	4.0	380.6

Coils — theoretical weight per linear metre

Width (mm)	Thickness (mm)	kg/linear m*
1000	0.8	6.34
1000	1.0	7.93
1219	1.2	11.60
1500	1.5	17.84
1500	2.0	23.79
1500	3.0	35.69

Technical basis: ASTM A240/A240M (plate/sheet/strip), ASTM A312/A312M + ASME B36.19M (process pipe), ASTM A554 (mechanical tubing), and ASTM A276/A276M (bars/shapes). Gauge values are stainless-sheet reference thicknesses. *Theoretical weights use a reference density of 7.93 g/cm³ (AISI 304); actual weight varies by grade, tolerance and finish.

TECHNICAL DATA

Tubes: dimensions and theoretical weight.

Process pipe and mechanical tubing should be specified by standard, outside dimension, wall thickness and finish.

Process pipe — ASME B36.19M / Sch 10S

NPS	OD (mm)	Wall (mm)	Calc. ID (mm)	kg/m*
1/2"	21.3	2.11	17.08	1.01
1"	33.4	2.77	27.86	2.11
2"	60.3	2.77	54.76	3.97
3"	88.9	3.05	82.80	6.52
4"	114.3	3.05	108.20	8.45
6"	168.3	3.40	161.50	13.97

Round mechanical tubing — calculation examples

OD (mm)	Wall (mm)	Calc. ID (mm)	kg/m*
25.4	1.5	22.4	0.89
38.1	1.5	35.1	1.37
50.8	1.5	47.8	1.84
50.8	2.0	46.8	2.43
76.2	2.0	72.2	3.70

Reference formula

Round tube weight (kg/m) = 0.006228 × (OD² − ID²), with dimensions in mm. For square/rectangular tubing, weight = metallic cross-sectional area (mm²) × 0.00793.

Technical basis: ASTM A240/A240M (plate/sheet/strip), ASTM A312/A312M + ASME B36.19M (process pipe), ASTM A554 (mechanical tubing), and ASTM A276/A276M (bars/shapes). Gauge values are stainless-sheet reference thicknesses. *Theoretical weights use a reference density of 7.93 g/cm³ (AISI 304); actual weight varies by grade, tolerance and finish.

TECHNICAL DATA

Bars, angles and beams.

Reference tables for estimating. Dimensions below do not represent available inventory.

Solid round bars

Ø (mm)	kg/m*	kg / 6 m*
10	0.62	3.7
12	0.90	5.4
16	1.59	9.6
20	2.49	14.9
25	3.89	23.4
30	5.61	33.6
40	9.97	59.8
50	15.57	93.4

Equal angles — approximate geometric calculation

A×A×t (mm)	kg/m*	kg / 6 m*
20×20×3	0.88	5.3
25×25×3	1.12	6.7
30×30×3	1.36	8.1
40×40×4	2.41	14.5
50×50×5	3.77	22.6
60×60×6	5.42	32.5
75×75×6	6.85	41.1
100×100×8	12.18	73.1

Welded I-beams — reference geometries

h×b (mm)	web/flange (mm)	kg/m*	kg / 6 m*
100×50	4/6	7.55	45.3
150×75	5/7	13.72	82.3
200×100	6/8	21.44	128.7
250×125	6/9	28.88	173.3
300×150	8/12	46.06	276.3

Technical basis: ASTM A240/A240M (plate/sheet/strip), ASTM A312/A312M + ASME B36.19M (process pipe), ASTM A554 (mechanical tubing), and ASTM A276/A276M (bars/shapes). Gauge values are stainless-sheet reference thicknesses. *Theoretical weights use a reference density of 7.93 g/cm³ (AISI 304); actual weight varies by grade, tolerance and finish.

TECHNICAL DATA

Factory and coil processing.

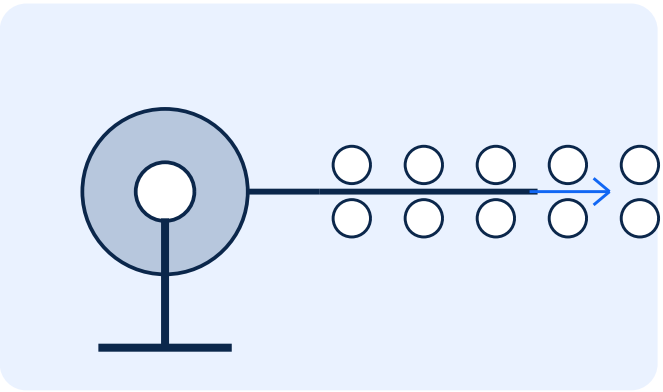
Illustrative view of an industrial operation and a typical coil-processing workflow.



Stainless-steel industrial environment — illustrative image.



Stainless-steel coil roll — illustrative image.



01	02	03	04	05	06
Coil receiving	Uncoiling	Leveling	Slitting	Cut-to-length	Inspection & packing

Real Premier factory or uncoiler photographs were not supplied for this revision. The images and schematic on this page are illustrative and do not represent installed equipment or stock availability.

PREMIER
STAINLESS STEEL LLC

LET’S TALK ABOUT YOUR PROJECT?

Tell Premier the application, required format and desired grade. Our commercial team can support technical definition and supply.

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Premier Stainless Steel LLC

Stainless steel for industry, infrastructure and special projects. Commercial service focused on application, specification and supply.

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