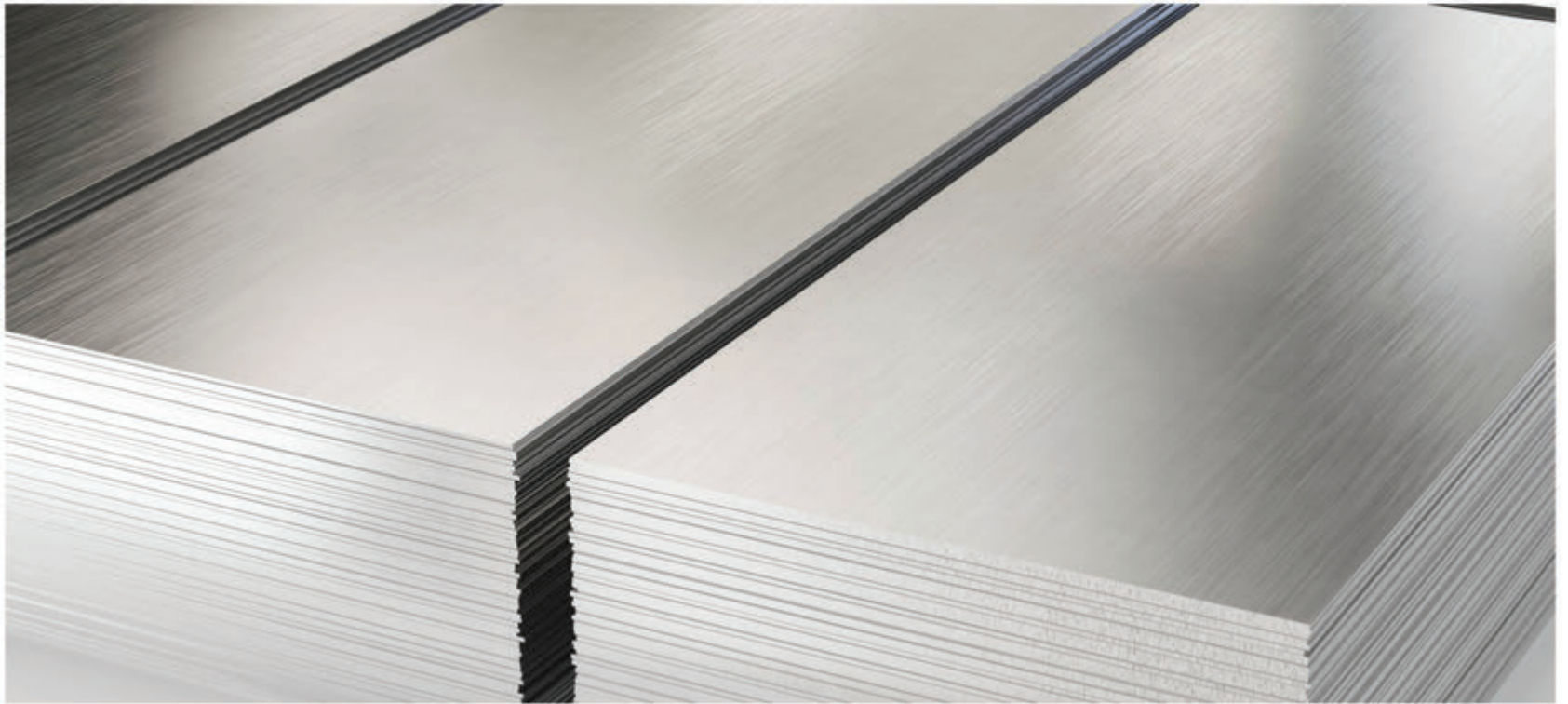


ALFAHD STEEL
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Stainless Steel Sheet Coil, Strip & Plate



Specifications

ASTM A240M. Chromium and chromium-nickel stainless steel plate, sheet and strip for pressure vessels and for general applications.

ASTM 480M. General requirements for flat rolled stainless and heat-resisting steel plate, sheet and strip.

The internationally recognized crossover thickness between what is referred to as sheet and plate is 5.0mm. This is specified in ASTM A480M.

Therefore, **sheet** is thickness less than 5.0mm and **plate** is 5.0mm and over.

Surface Finishes – Coil and Sheet

Product	Production Process
2B	The general-purpose, cold rolled, smooth finish obtained as a result of a final light pass through polished rolls at the mill. A semi-matt finish with very good corrosion resistance.
BA	Bright Annealed finish is a bright, cold rolled, reflective finish retained by final annealing in a controlled atmosphere furnace. The finish has large application in the appliance and automotive industry and as a decorative finish in architecture. The brightness and reflectivity is a function of thickness and grade. Consultation is recommended prior to specification in architectural applications. BA finish is usually supplied with a PE or PVC coating as a surface protection.
No.4	Produced from 2B finish often by a service centre rather than the production mill. It is a general-purpose ground polished finish used widely for kitchen equipment and applications requiring a decorative finished finish. No.4 finish is usually supplied with a PE coating as a surface protection.
No.8	Highly reflective 'mirror' finish. Produced from BA finish by polishing with successive finer abrasives followed by extensive buffing. Mainly used in architectural applications.
HRAP (No 1)	Hot Rolled Annealed and Pickled finish is usual for most plate. This dull finish is also supplied on some heavier coil and CR12 coil and sheet.
Customer-specific	A service centre with polishing equipment can produce special finishes for specific applications.

Protective Coating

PI	Paper Interleave is a layer of paper intended to prevent scoring or galling between sheets or coil wraps during storage and delivery.
PE	Polyethylene coating protects the prime steel surface from handling damage during storage, transport, fabrication and installation.
LF	This is a PE film optimized to avoid bubbling and separation from the metal surface during laser cutting.
PVC	Polyvinyl Chloride film is a specialised plastic optimized for deep drawing applications.
FLV	This is a Fiber Optic Laser Film optimized to avoid bubbling & separation from the metal surface during Fiber Optic Laser Cutting.

Plastic Film Precautions

All plastic films and more particularly the adhesives that hold them to the steel have limited life. It is recommended that all plastic films be removed within three months. Exposure to sunlight (UV) should be avoided.

Stainless Steel Sheet, Coil and Strip 0.45mm to less than 5mm thick – ASTM A240M

Coil and strip					Sheet	
Grade	Thickness (mm)	Coil width (mm)	Finish	Coating Fiber Optic	Length (mm)	
					Imperial	Metric
304	0.45	914	2B	PE/LF	1829	1800
316	0.55	1219	No.4		2438	2400
	0.70	1500	BA		3048	3000
	0.90				3658	6000
304	1.20	914	2B	PE/LF		
316	1.50	1219	No.4			
	1.60	1500	BA			
	2.00					
304	2.50	914	2B	PE/LF		
316	3.00	1219	No.4			
		1500				
		2000				
304/304L	4.00	1219	2B	PE/LF		
316/316L		1500	No.1			
		2000				
430	0.70	914	2B	PE/LF		
	0.90	1219	BA			
			No.4			
Atlas3CR12	1.20	1250	No.1			
Atlas3CR12Ti	1.60	1500				
	2.00					
	3.00					
	4.00					

Other grades and widths available, but not usually ex-stock.

Grades: 301L, 301LN, 310, 321, 2205, 253MA, 444

Widths (mm): 600, 750, 900, 1050, 1200, 1524

Stainless Steel Coil Plate - ASTM A240M

The most efficient route for a stainless steel production mill to produce plate (5mm and over) is in coil form. The coil is then further downstream processed by the mill or through a service centre with equipment to flatten (often called 'levelling') and cut to length.

The maximum plate width produced by mills from coil is 2000mm and the maximum thickness is 13mm for hot rolled and 8mm for cold rolled.

Grade	Thickness (mm)	Coil width (mm)	Finish
304/304L	5.0	1500	2B, 2D, 2E
316/316L	6.0	2000	No.1
304/304L	8.0	1500	No.1
316/316L	10.0	2000	
	12.0		
AtlasCR12	5.0	1219	No.1
AtlasCR12Ti	6.0	1500	

Other grades available, but not always ex-stock

Grades: 310, 321, 2205, 253MA, 2507

Coil plate is commonly stocked in dual certified grade, i.e. 304/304L and 316/316L.

Stainless Steel Quarto Plate Products – ASTM A240M

Another method of producing stainless steel plate within and beyond the thickness range of coil production is from a slab of steel that is rolled in the flat condition to a specified length, width and thickness. The product of this process is commonly referred to as quarto plate and is available from mills in thickness from 5mm and above and widths to 4000mm in some thicknesses.

Grades and thickness for quarto plate are as follows:

Grades	304/304L, 316/316L, AtlasCR12, 253MA, 2205, 2507. (Indent 321, 321H etc)
Thickness (mm)	5.0, 6.0, 8.0, 10.0, 12.0, 16.0, 20.0, 25.0, 32.0, 40.0, 50.0
Width (mm)	1500, 2000, 2500
Length (mm)	6000, 7500, 8000
Finish	No.1

Non-standard grades, widths and lengths can be obtained to individual customer-specific requirements.

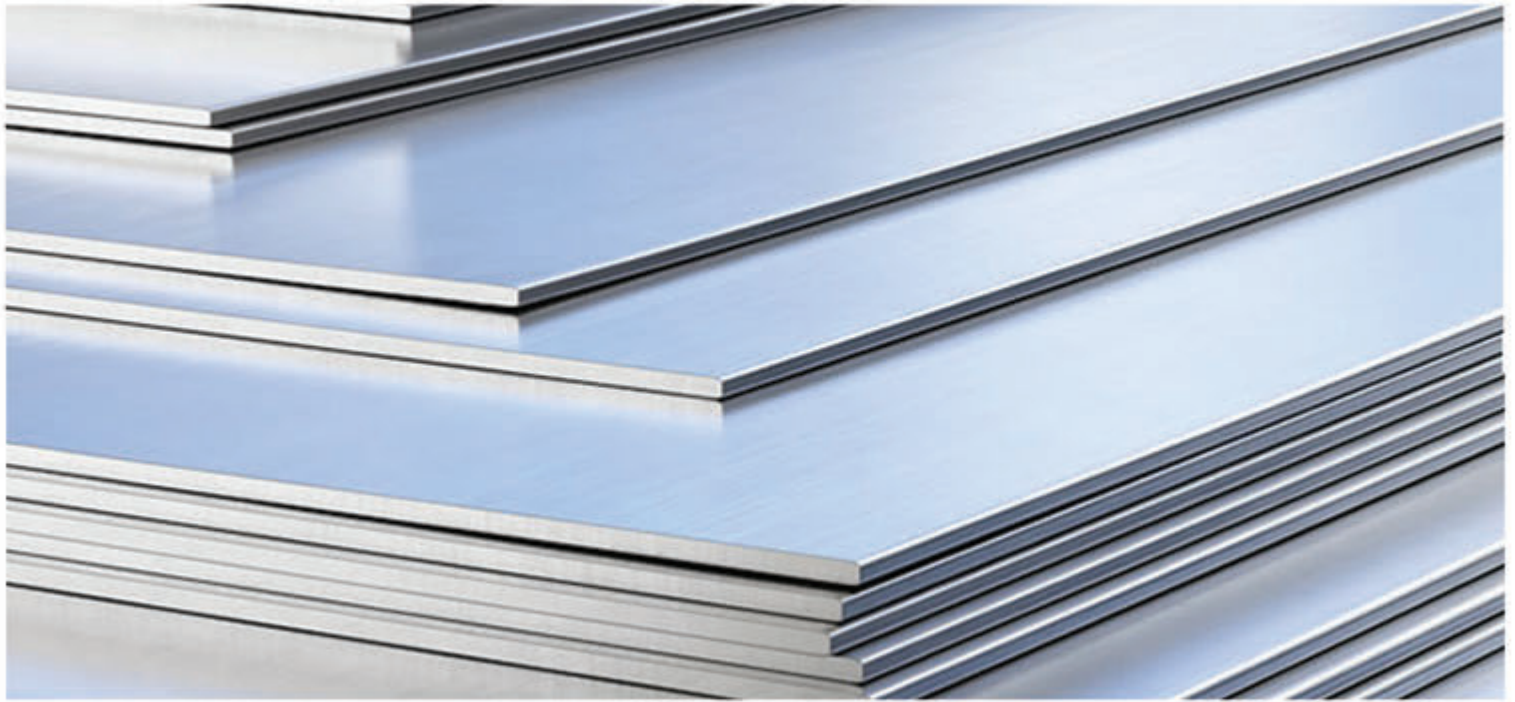
Quarto plate is commonly stocked as "dual certified" in the most common grades, 304/304L and 316/316L.

Stainless Steel Chequer (Floor) Plate

Grades	304
Thickness (mm)	3.18, 4.76, 6.00
Width (mm)	1219, 1250 (6mm only)
Length (mm)	2438, 3048, 2500 (6mm only)

Chequer plate pattern is typically as in the photograph below. There are minor differences in tread pattern depending on the manufacturing mill.





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