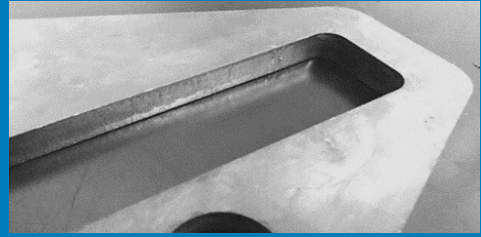


AlgoLaser

Laser quality plate designed to meet the demanding requirements of automated thermal cutting.



AlgoLaser is advanced structural steel plate engineered for laser cutting. It is designed to improve yield, general productivity, and overall product quality leading to consistent cutting at optimum speed.

Dimensions

The Algoma Steel Plate Mill is highly automated, assuring consistency across the entire product range. Using continuously cast steel slabs, the Plate Mill rolls both carbon and high-strength low alloy (HSLA) plate up to 154" (3,912 mm) wide, the widest steel plate in Canada.

Specifications

AlgoLaser is available in specifications:

- ASTM A36/CSA G40.21 38W/CSA G40.21 44W with CAT 3 impacts.
- ASTM A572 Gr.50/CSA G40.21 50W with CAT 4 impacts.

Advantages

- Basic oxygen steelmaking operations assure excellent steel cleanliness
- Tight chemistry control
- Dimensional tolerances that exceed standard tolerances
- Improved Charpy impact toughness
- Superior surface quality compared to standard structural steel
- Excellent for cold forming

Conditions

AlgoLaser is delivered in the as-rolled condition.

Technical Characteristics

AlgoLaser guarantees:

- Low silicon content: Si ≤ 0.04%
- Low phosphorus content: P ≤ 0.025%
- Low sulphur content: S ≤ 0.007%

This chemistry makes our product ideal for hot dip galvanizing.

Welding

The carbon equivalency of AlgoLaser is low allowing for easy welding with standard welding techniques and consumables.

Specifications

The table below outlines specifications currently available from Algoma Steel. For specifications not listed, please contact our Sales Department.

Specifications	Gauge		C	Mn	P	S	Mo ¹	Si	Al	V+Nb+Ti
	Minimum	Maximum								
ASTM A36/CSA G40.21 38W/CSA G40.21 44W	0.375" (9.5mm)	1.250" (31.8mm)	0.20	1.40	0.03	0.02	0.10	0.10	0.070	0.10
ASTM A572 Gr.50/CSA G40.21 50W	0.375" (9.5mm)	1.250" (31.8mm)	0.15	1.50	0.03	0.02	0.10	0.10	0.070	0.15

Note: ¹ This residual element is not an intentional addition in the steelmaking process.

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