



TRUSTRENGTH

PERFORMANCE STEEL

TruSTRENGTH

CMC'S HIGH STRENGTH PERFORMANCE STEEL

Manufacturers are on a continuous journey to reduce weight while improving the performance of your products, without sacrificing integrity - TruSTRENGTH steel is the solution. Our high-strength steel provides the strength, weldability and durability to take your products to the next level in performance.

Melted and manufactured in the USA, our high-strength flat bar, plate and structural products are delivered with uncompromising quality and expertise.



As an industry leader in the high-performance steel market, our TruSTRENGTH steel products provide customers with excellent quality they can rely on.

- » **Strength** – TruSTRENGTH's superior strength-to-weight properties allow you to manufacture your products with less steel, meaning your equipment can carry a greater payload while still withstanding the most stringent loading conditions. Lighter equipment also means lower fuel consumption and improved operating performance.
- » **Formability and Weldability** – The refined chemical composition, along with the heat-treating, quench and tempering processes used to create TruSTRENGTH, creates a high-strength steel with the ductility that is necessary for ease of formability and fabrication in the manufacturing process. Manufacturers and fabricators can use conventional, manual or automated welding processes when working with TruSTRENGTH products due to the steel's advanced chemical composition.

SUPPORT

CMC Impact Metals is committed to ensuring that you have the support you need at every step in the process. As a TruSTRENGTH customer, you'll have a dedicated sales team, backed by the expertise of our technical staff, working with you to provide solutions for any project application.

As an industry leader, we are confident your business will benefit from your alliance with CMC Impact Metals - receiving the highest levels of quality with TruStrength steel, and relying on our industry expertise and personalized customer service that you expect from a trusted partner.

TruSTRENGTH Hot Rolled Flat Bar Products

TruSTRENGTH flat bar is mill-rolled with a smooth edge that ensures uniformity, straightness and safer handling. Products are available in custom length orders, and we offer a flat bar stocking program to ensure you have the right products on demand and on schedule.

	Yield Strength	Thicknesses (inches)	Widths (inches)	Lengths (feet)	Tensile Strength	Elongation	Reduction of Area	Charpy Impacts @ -40°F (-40°C)
TruSTRENGTH 980QT Flat Bar	80 ksi (552 MPa)	1/4" - 2"	3" - 12"	Up to 56'	95 ksi (655 MPa)	14%	60%	20 ft-lbs (27.1 J)
TruSTRENGTH 100 Flat Bar	100 ksi (689 MPa)	1/4" - 2"	3" - 12"	Up to 56'	110-135 ksi (758-931 MPa)	18%	40%	20 ft-lbs (27.1 J)
TruSTRENGTH 130 Flat Bar	130 ksi (896 MPa)	1/4" - 2"	3" - 12"	Up to 56'	140-165 ksi (965-1138 MPa)	15%	35%	15 ft-lbs (20.3 J)
TruSTRENGTH 150 Flat Bar	150 ksi (1034 MPa)	1/4" - 2"	3" - 12"	Up to 56'	155-175 ksi (1069-1207 MPa)	13%	35%	15 ft-lbs (20.3 J)

TruSTRENGTH Hot Rolled Plate Products

Flatness – Our flatness guarantee ensures that TruSTRENGTH plate performs in downstream fabrication processes. Our heat treating, quenching and tempering process reduces and relieves the stresses induced during manufacturing, ensuring the parts remain flat when cut into smaller pieces. CMC is proud to offer our cutting-edge TruFLAT technology for most plate products .300" and thinner, with a flatness of ¼ ASTM A6 standards and significantly exceeding typical standards for flatness.

Surface Quality – TruSTRENGTH plate products have a superior surface quality that produces a smooth finish ready for exposed or painted applications.

	Yield Strength	Thicknesses (inches)	Widths (inches)	Lengths (inches)	Tensile Strength	Elongation	Reduction of Area	Charpy Impacts (typical) @ -40°F (-40°C)
TruSTRENGTH 110 Plate	110 ksi (758 MPa)	Up to 0.500"	Up to 60"	Up to 288"	120 ksi (827 MPa)	17%	55%	40 ft-lbs (54.2 J)
TruSTRENGTH 130 Plate	130 ksi (896 MPa)	Up to 0.500"	Up to 60"	Up to 288"	140 ksi (965 MPa)	12%	45%	30 ft-lbs (40.7 J)
TruSTRENGTH 140 Plate	140 ksi (965 MPa)	Up to 0.500"	Up to 60"	Up to 288"	150 ksi (1034 MPa)	11%	40%	25 ft-lbs (33.9 J)

TruSTRENGTH Structural Angles

Call for additional details and to inquire about any other product offerings not included here.

	Yield Strength	Thicknesses (inches)	Lengths (feet)	Tensile Strength	Elongation	Reduction of Area	Charpy Impacts @ -40°F (-40°C)
TruSTRENGTH Angles	100 ksi (689 MPa)	3/16" - 3/4"	20' - 55'	110 - 135 ksi (758-931 MPa)	18%	40%	20 ft-lbs (27.1 J)

All charts show minimum values unless otherwise noted.

TRUSTRENGTH APPLICATIONS

Our high-strength flat bar, plate and structural steel is an integral part of products in industries requiring performance steel. TruSTRENGTH meets the most stringent requirements and specifications for chemical and mechanical properties.

Our TruSTRENGTH steel products have various uses, but primarily lend their strength in applications for the transportation, DOT and construction fields, with flat bar and plate products integral to strengthening:

- » Flatbed trailers
- » Oilfield rigs
- » Forestry trucks and harvesters
- » Rail cars
- » Jet bridges
- » Heavy transport trucks
- » Mobile cranes
- » Lift trucks
- » Snow plows
- » Construction cranes



TruSTRENGTH

A CENTURY OF INDUSTRY EXPERIENCE Founded in 1915, Commercial Metals Company and its subsidiaries recycle, manufacture and fabricate steel, metal products and related materials through a network of facilities throughout the United States and around the globe. As a publicly traded company (NYSE: CMC) on the Fortune 1000 list, our long-standing professionalism and exceptional level of service have been recognized among the best in our industry. We set the standard for being an environmentally responsible, efficient, high quality, and low cost metal recycler, steel manufacturer and fabricator.



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