PROVIDING MILITARY ARMOR PLATE PRODUCTS FOR MORE THAN 40 YEARS
For more than two decades, Clifton Steel has served as an integral supplier of aluminum and steel armor plate to U.S. Government facilities, vehicle manufacturers, fabricators, machine shops as well as commercial vehicle and facility protection systems.

Our continued re-investment into our business and addition of processing capabilities allow us to provide preprocessed components for our customers who prefer to get semi-finished or finished parts ready for use. For our customer who process in-house, Clifton Steel can provide stock size plates as well as cut parts when preprocessing becomes a bottleneck in the production process.

Unlike most suppliers in this business, armor plate has been and continues to be a core product to Clifton Steel. Our in-house heat treat lines are specifically designed to supply light gauge armor plates to Mil DTL 46100 Rev E, Mil DTL 12560 Rev J, and Mil DTL 46177 Rev C table ready for processing. The rigid controls of our heat treat process allows us to produce some of the flattest plates in the industry.

Customers can count on the consistent high quality of our armor plate to meet their exact specifications with each and every order. All of our armor plate is provided with certification including ballistic testing certificates. Our internal stringent Quality System assures accurate certification, correct the first time. Ballistic testing is performed at Aberdeen Test Center and is in full compliance with specifications.

Because we maintain the largest inventory of armor plate in North America with over 6,000 tons of armor plate in stock your needs can be met accurately and quickly even for the unique thicknesses required.
STEEL ARMOR PLATE
Clifton Steel stocks armor plate steel in MIL-A-12560, MIL-DTL-46177 and MIL-DTL-46100 in the latest revisions. Our in-house state-of-the-art heat treat lines produce quenched and tempered armor plate steel. These lines allow for improved control of product, quicker response time to our customers, and the ability to offer special sizes that can reduce our customers’ overall cost of manufacturing. Clifton Steel’s armor plate is fully DOD approved.

MIL-A-12560 REV H AMD 4
MIL-A-12560 is designed for both good ballistic resistance as well as defending against IED (improvised explosive devices).

The grade includes four Classes:
- Class 1 - For resistance to penetration
- Class 2 - For resistance to shock
- Class 3 - For evaluation only. This Class is not used on vehicles
- Class 4 - For maximum resistance to penetration

Clifton Steel inventories Class 1, 2 and 3 in thickness ranges of:
- Class 1 - 0.25˝ - 6’
- Class 2 - 0.25˝ - 1.25”
- Class 3 - 2” - 6”

Our stock is always available at the latest revision, including the newly revised MIL-DTL-12560 Rev J in the same classes as listed above. We stock this product in sizes that allow it to be laser ready without the need to cut down from a larger plate or perform additional surface cleaning. The new specification allows us to inventory thicknesses as low as 0.100”.

MIL-DTL-46177 REV C
MIL-DTL-46177 is made to provide a higher hardness range than the MIL-A-12560 grade within the thickness range of 0.125” up to 0.250”. We also stock this product in sizes that allow it to be laser ready without the need to cut down from a larger plate or perform additional surface cleaning. This specification is now part of MIL-DTL-12560 Rev J, however we maintain inventory of product to this specification for support of past vehicle platforms that require this specification.

MIL-DTL-46100 REV E
The high hardness properties of MIL-DTL-46100 provide for excellent resistance to penetration. Clifton Steel stocks and produces some of the lightest gauges available in this product. We also stock this product in sizes that allow it to be laser ready without the need to cut down from a larger plate or perform additional surface cleaning. Our stock ranges from 0.100” to 2”. We also stock inventory to MIL-A-46100 Rev D Amd 1 to support the needs of previous vehicle platforms requiring this material.

ALUMINUM ARMOR PLATE
Clifton Steel carries a complete stocking program of aluminum armor plate in the latest revisions of MIL-DTL-46027, MIL-DTL-46063 and 5083-H32. Our vast inventory includes a variety of sizes and widths all available for rapid delivery. Clifton Steel’s armor plate is fully DOD approved.

MIL-DTL-46027 REV J OR LATEST
MIL-DTL-46027 is supplied as a 5083-H131 product. Ballistic reports are supplied for thicknesses over 0.499” per specification. Our stock range is 0.250” thru 3”. Typical stock size is 72” wide x 144” long.

MIL-DTL-46063 REV H OR LATEST
The increased strength of this 7039 grade provides for improved ballistics resistance over the MIL-DTL-46027. Ballistic reports are supplied for thicknesses over 0.499” per specification. Our stock range is 0.250” thru 3”. Typical stock size is 72” wide x 144” long.

5083-H32
5083-H32 is a commercial grade of aluminum certified to ASTM B-209 and is often used as a component in composite armor applications. Our stock range is 0.250” thru 4”. Typical stock size is 48” wide x 144” long.

SERVICES

WELDING
Our expansive capabilities encompass an entire range of manual and automated welding technologies, including TTG and MIG for manganese and other steel alloys. At Clifton Steel, pre-heating, full-edge preparation and post-weld stress relieving are standard processes.

DRILLING
Clifton Steel drills and countersinks holes from 1/4 inch to 5 inches in diameter—even through 15 inch thick plate.

MILLING
Clifton Steel mills slots, thread holes, bevel, and chamfer—even in tough, wear-resistant materials.

FORMING
At Clifton Steel, precision work is our specialty: Our experienced team forms our full line of abrasion and impact-resistant materials to meet exact customer specifications.

SAWING
Clifton Steel employs rugged band and hack saw capacity with cutting capacity up to 24 inches in diameter. Rotary carbide saw capability handles all manganese rounds up to 4 inches in diameter.

FLAME CUTTING
Clifton Steel flame-cuts plates to any desired length up to 15 inches in thickness and 120 inches in width. When necessary, we apply pre-heating and controlled post-cooling processes to assure clean cuts without stress cracking at the edges. When working with heavy plate, pre-heating and post-heating processing are standard procedure to ensure product integrity.

LASER AND WATER JET CUTTING
Clifton Steel provides high-tech laser and water jet cutting to meet the express needs of our customers. These processes deliver close tolerances with a clean-edge finish for optimum quality and performance.
Since 1971, Clifton Steel has operated as a full-service specialty steel distributor and manufacturer, specializing in abrasion-resistant, high-impact, high-strength steel fabrications. We serve our loyal customers in a host of industries, from aggregate and mining, to military and railroad, as well as a variety of other industrial applications. Clifton Steel delivers a level of seasoned experience, proven expertise and personal service that is unmatched.

PUT CLIFTON STEEL’S INNOVATION TO WORK FOR YOUR BUSINESS TODAY!

CONTACT A CLIFTON STEEL REPRESENTATIVE TODAY!

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