

## NOTICE OF ADDENDUM TO SOLICITATION

Solicitation Number: 0000085984

Opening Date: 10-28-25

Solicitation responses should be submitted incorporating the information detailed below:

Adding more in-depth specs for the requested item. See the next two pages.

Buyer: \_\_\_\_\_

Approved: \_\_\_\_\_

The acknowledgement below should be signed and returned with your response.

### ACKNOWLEDGEMENT

Receipt of Notice of Addendum for solicitation: 0000085984

Bidder: \_\_\_\_\_

Signed: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

## SPECS FOR AERIAL PLATFORM STEEL TARGET

6 sided 3-dimensional steel target for aerial shooting. Panels are 1' wide by 3' tall. Require 1/4" – 3/8" thick AR500 or above armored steel. H stand with tubular steel overall height of 5.5'

The target allows the shooter to engage with rifle fire from a moving helicopter every angle possible to include 360 degrees. The impact plates are constructed of 1/4" - 3/8" AR500 and can withstand .223 to .308 WIN. The target is manufactured in a clamshell design allowing for two-piece 180 degree separation. Both sections can be placed on stands to make 1 target or 2 targets.

AR500 steel specs typically include a hardness of **470-540 BHN** (Brinell Hardness Number), high tensile and yield strength (around 260,000 psi and 150,000 psi, respectively), and excellent resistance to abrasion and impact. Provide details on chemical composition, mechanical properties, and applications. Ballistic-grade AR500 independently tested to meet NIJ standards for defeating specific threats.

- **Hardness:** Between 470 and 540 BHN (Brinell Hardness Number).
- **Tensile Strength:** Approximately 260,000 psi (1792 MPa).
- **Yield Strength:** Approximately 150,000 psi (1034 MPa).
- **Elongation:** Approximately 13% at room temperature.
- **Material:** A high-carbon, high-hardness steel that is quenched and tempered.
- **Machinability:** Less machinable than standard mild or HSLA steel due to its hardness.
- **Heat Treatment:** The properties are achieved through quenching and tempering, and it is not recommended for further heat treatment.

### Applications

- **Ballistic:** Body armor plates and target plates for shooting ranges.

### Important considerations

- **Ballistic performance:** For armor applications, verify that the specific product is certified to NIJ standards for threat protection, as performance depends on thickness, coating, and manufacturing.
- **Cutting:** Use plasma or flame cutting without preheating for thicknesses up to 20 mm if the ambient temperature is above 0°C.
- **Cooling:** Allow cut parts to cool gradually to prevent cracking.
- **Mill Test Reports (MTR):** MTR from the supplier for chemical and mechanical property verification.

### Additional Requirements

- Requires a tube laser or water jet.
- Supply a sample to ISP for ballistic testing.
- Tolerance for cut sizes would be  $\pm 0.005$ . This would require higher end equipment.