



Rapid Deployable Wire Barrier System

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- **Introduction**

An 80 inch tall triple strand concertina wire is an extremely good barrier to choose when there is a temporary or immediate requirement for an anti-personnel or anti-movement barrier. Examples of these requirements include additional security around Mission Essential Vulnerable Areas, riot control situations, Enemy Prisoners of War collection points, temporary holding areas and any other perimeter type security applications as identified by command.

- **Description**

The Rapid Deployable Wire Barrier System when utilized with a HMMWV vehicle, 2.5 ton truck, 5 ton truck or other commercial vehicle can accomplish this task in a minimal amount of time. Installing approximately 300 meters of triple strand concertina wire utilizing currently available single coils of wire requires about 30 man-hours of labor per the field manual. With the Rapid Deployable Wire Barrier System, this same 300 meters of wire can be deployed in about a quarter of an hour utilizing less than 1 man hour of labor.



Figure 1: Rapid Deployable Wire Barrier System



Figure 2: Wire Barrier System being deployed

The current manually deployed wire is difficult to recover and is thus usually scrapped when no longer needed. With the new Rapid Deployable Wire Barrier System, when the need no longer exists or if the asset needs to be redeployed at a new location, the 300 meters of wire can be recovered in about three quarters of an hour utilizing about 2 man hours of labor.

Utilizing this Rapid Deployable Wire Barrier System will significantly reduce both manpower and man-hours to dispense and recover the wire barriers. The Rapid Deployable Wire Barrier System will increase the units combat effectiveness and force protection capabilities by reducing the manpower requirements, time and equipment needed to erect protective wire barriers and without the need for Engineering Support.



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• Requirements

The US Army MP Combat Development Group at Fort Leonard Wood (USAMP) conducted testing and prepared an Early Users Appraisal Report on the Rapid Deployable Wire Barrier System. Their preliminary requirements for the Rapid Deployable Wire Barrier System are:

1. Wire barrier must provide equal or greater than manually erected concertina wire barriers.
2. Single section of wire is 250 meters or more in length.
3. System incorporates a vehicle-mounted device or trailer that allows for the transportation, rapid deployment, recovery and storage of the wire barrier.
4. Wire barrier system must be deployable using a light military (HMMWV) or 2.5 ton truck.
5. Wire barrier must be a minimum of 72 inches in height.
6. Wire barrier must be wide enough at the base to support the height of the barrier and resist being toppled over by wind or personnel.
7. Rigid, integrated support frames must be included in each wire increment.
8. Wire and support frames must be constructed of material resistant to crushing, bending, and environmental conditions (heat, rain, snow).
9. System must be able to be deployed/recovered multiple times without damaging or degrading the wire or support frames.
10. System must be deployable by three soldiers in less than 10 minutes and recovered in less than 20 minutes.
11. Wire cassette and magazine must be able to fit on the Air Force 463L pallet.
12. Trailer must be multi-use.
13. Trailer must have sufficient ground clearance to be deployed in all theaters over moderately rough terrain.
14. Trailer must have sling and tie down points for sling load operations and transportation by rail or truck.
15. Trailer must have US Military standard electrical cables and pigtail connector.
16. Trailer must have standard US Military lights to include black out drive.
17. Trailer must be able to be connected and disconnected to and from the vehicle by one soldier.
18. Trailer must have a standard US Military pintle hitch and safety chains.
19. Trailer must be capable of carrying loads of up to 4,500 lbs.

Upon completion of the test, USAMP determined that it wasn't physically possible to have the 250 meters of wire (requirement # 2) and still have the wire fit onto a 463L pallet (requirement #11). It was decided that the wire and magazine fitting on the 463L pallet was more important. They have revised the length of wire required in each single section of wire to a minimum of 125 meters.



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- **Rapid Deployable Wire Barrier System**

Creative Building Products has developed the Wire Deployment System that meets all of the operational requirements as specified by USAMP. The Rapid Deployable Wire Barrier System is made up of three major components (Amaze-N-Tow, Wire Magazine and Concertina Wire).

The Amaze-N-Tow is available with either standard or HMMWV tires and comes with either a pintle or ball hitch. It can be towed behind any vehicle and is used to deploy and recover the wire. The Amaze-N-Tow has a hydraulic system that is utilized to lift and lower the forks. When it is not being used with the wire system, the Tow can be utilized to haul palletized items (4500 pounds) as needed behind any vehicle.

The Wire Magazine is a special rack that fits onto the forks of the Amaze-N-Tow and is designed to deploy and recover the wire. The Wire Magazine includes all necessary components needed to deploy and recover the wire.

The triple strand concertina wire utilizes NATO short barb concertina wire, stands approximately 80 inches tall, has internal supports to maintain the height, has internal wire so that the wire can't be overstretched and comes with stakes for anchoring it the ground. The wire can be deployed and recovered numerous times. We have several units that have been deployed and retrieved (10) separate times.

Usage

We have Rapid Deployable Wire Barrier Systems that have been deployed in Iraq and Honduras. POC information is available upon request.

Availability

The product is complete and ready for delivery. Our standard lead-time is 30 days after receipt of order. Call for pricing and availability on the product.

The basic Rapid Deployable Wire Barrier System includes (1) Amaze-N-Tow, (1) Wire Magazine and (4) coils of triple strand wire. We will set up other options as requested.

The Rapid Deployable Wire Barrier System is being submitted to GSA. We expect to have it on a GSA schedule later this year.

Contact Information

For additional information and pricing, contact Gerard Muegerl, Senior Project Manager, Creative Building Products, 260-432-7158, e-mail address – gerard@soacorp.com and web page – (www.soacorp.com).