

## Surface Mount Road-blocker Speedbump

Provide road blockers to stop unauthorized vehicles trying to enter to the site by force with the result that the undercarriages, the axes and the wheel suspension are destroyed and the vehicle is no longer maneuverable. The blocking width can be unlimited by combining the blocks with 2, 3 or 4 meters width and the blocking height is not less than 350 mm.

Country of origin should be USA or European countries.

### Normal Operation

Road Blockers shall provide excellent security and positive control of normal traffic by providing an almost insurmountable obstacle to non-armored or non-tracked vehicles. The Road Blocker system shall be designed to stop a vehicle attacking from the priority direction. Upon impact, forces shall be first absorbed by the Road Blocker assembly and then transmitted to the foundation of the unit.

### Installation

Road Blocker, should be surface mounted, and attached to concrete base with anchors only. Blocker can be installed on any flat road surface without need of foundation. Installation of blocker using anchors should be done in such way, that whole blocker can be fully removed by unscrewing anchors only; relocated and re-installed without changing of any parts.

Entry/exit and side ramps shall be made of combination of steel and rubber material, and attached to road with anchors, same as blocking unit. Concrete ramps are not allowed. Ramps can be re-used same as blocking unit.

Entry and exit ramps with 500 mm or 1000 mm length, depending on type of vehicle and required slope.

### Normal Mode of Operation

Road Blocker shall be capable of being raised or lowered in 3.5 seconds when operated at a repetition rate. Road Blocker shall be instantly reversible at any point in its cycle from the control stations.

### Road Blocker Construction

Road Blocker shall be a above grade assembly containing a heavy steel weldment capable of being rotated to an above grade position. The guard position shall present a formidable obstacle to approaching vehicles. The removable portion of the roadway plate that provides access to the Road Blocker internals shall be fastened with bolts which have their heads recessed below the roadway level.

### Road Blocker Height

Height of the Road Blocker shall have 350 mm blocking height.

### Finishing

Road Blocker front and roadway plates shall have yellow/black stripes RAL 9005/1007.

Road blocker should have protective shutters along the entire length and height of the blocking element, to avoid manual cutting of oil hoses and electric communications during unauthorized access and prevent small animals and rodents from entering inside the structure

## Hydraulic Power Unit

Unit shall consist of an electrically driven hydraulic pump which shall pressurize a high pressure manifold. Electrically actuated valves shall be installed on the manifold to allow oil to be driven to the up and down side of a double acting hydraulic cylinder to raise and lower the Road Blocker. The hydraulic circuit shall include all necessary control logic devices, interconnect lines and valves.

The hydraulic power unit and accessories shall be mounted and wired on an integral steel skid. The HPU shall be mounted in weather resistant enclosure and can be equipped with manual pump, DC motor, oil level indicator, pressure manometer etc.

The length of hydraulic hoses should be max. 15 meters

## Manual Operation (optional)

- A hand pump shall be furnished to allow the road blockers to be raised and lowered manually in the event of a prolonged power interruption.
- The pump shall be located in an easily accessible location inside hydraulic enclosure.

## Electrical Control Equipment

- Locate control panels at corresponding guard posts. The panels shall have:
  1. Panel "on" light.
  2. Buttons to raise and lower Road Blocker.
  3. Blocker "up" and "down" indicator lights.

## Wheel Load

Axel load should be not less than 15 tons per axle

## Origin

Only European or USA products allowed. Origin to be confirmed by Certificate of Origin issued by Chamber of Commerce.