

## VIPER Shallow Mount Wedge Barrier

### ASTM F2656-07 M50-P1



The XT-2000-W VIPER (Heald SM1000) is a K12 Roadblocker designed for use in areas where deep excavation is not possible. Manufactured from heavy duty steel plate to evenly distribute impact energy, it is shallow mounted at 14"D with a total excavation of 16"D, and offers a generous 41"H raised blocking element for a formidable defense against hostile vehicle attack. Specially designed linkage bars nest safely without gaps and ensure the hydraulics remain protected in crash situations for continuous operation.

#### Crash Testing

Tested to ASTM F2656-07, the Heald HT1-VIPER received a rating of M50-P1 Zero penetration for a truck traveling at 50mph. The VIPER has also successfully arrested an N3 vehicle type (18 tonner weighing 16,535lbs). The test resulted in zero penetration with a speed of 50mph (80kph). The blocker continued operation after impact, therefore maintaining site protection at all times.

#### Installation

Considered the most efficient, cost saving installation in the industry (of this type of product). Approximately 3 cubic yards of concrete. No precast pit required. No concrete reinforcement required. Install on Friday for traffic-readiness on Monday. And operation is quiet enough for residential areas.



## VIPER - Technical Specifications

<b>Height:</b>	41"H (1050mm) total raised height
<b>Width:</b>	9'10"W (3000mm) with alternative widths available
<b>Depth of unit:</b>	14"D
<b>Typical foundation:</b>	13'10" x 10'8" x 16"D (4215mm x 3255mm x 400mm)
<b>Composition:</b>	Steel skirt manufactured in four sections Unique design of safety skirt ensures easy removal for maintenance
<b>Cabinet:</b>	Steel sheet finished in white (alternative colors on request)
<b>Mechanism:</b>	Heavy duty motor Immersed pump Extra Heavy Duty solenoid valves (110vDC) for reliability and safety in operation Manual hand pump
<b>Interface:</b>	Can interface with most access systems
<b>Duty Cycle:</b>	100%
<b>Normal operating speed:</b>	4-6 seconds (approximate)
<b>Accumulator EFO speed:</b>	1.5 seconds (approximate) Emergency Fast Operation (EFO)
<b>Power:</b>	240v/3 ph/60 Hz/20A or 480v/3 ph/60Hz/10A for 3-phase motor control 120v/60 Hz/30A for DC-based motor system
<b>PLC Control Voltage:</b>	11vAC
<b>PLC Logic Voltage:</b>	24vDC
<b>Optional Accessories:</b>	Traffic lights, intercom, transponder, transmitter, keypad, token/coin acceptors, proximity card, push button etc.
<b>Safety/Security:</b>	Option of inductive loops and photo beam Option of security cover to prevent unauthorized access to hydraulic systems
<b>Manufacture:</b>	Galvanized finish Optional painted finish
<b>Options:</b>	Hydraulic Accumulator for Emergency Fast Operation (EFO)
<b>Installation:</b>	Requires 3 cubic yards of concrete
<b>Delivery:</b>	The Roadblocker is delivered in two elements - Blocker and cabinet
<b>Guarantee:</b>	Manufactured to withstand 16,535lbs @ 50mph (18 tonner @ 80kph) To receive the aforementioned impact and still operate
<b>Performance classification:</b>	PAS 68:2010 V/7500[N3]/80/90:0/24.6 ASTM F2656-07 M50-P1
<b>Product ID:</b>	XT-2000-W VIPER
<b>Heald Reference Number:</b>	HT1-VIPER

