

## HRR



## GENERAL DESCRIPTION

Optima HRR-Secure Actual Crash Tested Shallow Mount Road Blockers are designed especially for entrance points that have a threat of vehicle attack or for the ones that have high-security requirements. The drive unit is electro-hydraulic, but in case of power failure, road blocker can be lowered or lifted manually with the help of a hand pump. Typical raise/lower time is 3-5 seconds, in case of emergency, raise/lower time can be as low as 1.5 seconds if hydraulic accumulator added to the system (optional).

Optima HRR-Secure Actual Crash Tested Shallow Mount Road Blockers are suitable solutions for the places in which deep foundation is not possible. The crash test conducted according to IWA 14-1 V/7200[N3C]/80/90:7.3 standard.

## STEEL STRUCTURE

The road blocker withstands a minimum of 50 tons of load per axle. Cushioned cylinders power the road blocker up as they pivot on multi-sealed bearings. The steel structure is sandblasted or can be hot-dip galvanized as an option. The standard color is RAL1028 yellow / RAL9005 black.



## HYDRAULIC POWER UNIT AND CONTROL ELECTRONICS

Normal operating pressure is around 80-120 bars. Coolers or heaters are can be integrated to the hydraulic power unit as an option. Control electronics utilized in hydraulic road blocker is Optima PLC controller. Two keyboards with emergency stop are standard; one desktop, other being integrated into the hydraulic power unit.

## ENVIRONMENTAL CONDITIONS AND POWER REQUIREMENT

Between -15°C and +65°C, 95% non-condensing humidity; 380V, three phase, 50-60Hz (or 220V/440V/etc., three phase, 50-60 Hz, optional by transformer).

## OPTIONAL ACCESSORIES

- ⇒ Red/green traffic lights with a steel pole.
- ⇒ Flashing lights in front of the road blocker.
- ⇒ Dual vehicle safety loop detector.
- ⇒ Protective construction(tubular) around drive unit.
- ⇒ Hydraulic accumulator.
- ⇒ Transformer to convert the power.
- ⇒ Uninterrupted power supply (UPS).
- ⇒ DC motor and pump with dry batteries.
- ⇒ It is possible to operate the system by using solar panel with DC motor.
- ⇒ Coolers or heaters.
- ⇒ Submersible drainage pump.
- ⇒ Wrong way alarm.
- ⇒ High-speed alarm.
- ⇒ Different colors.
- ⇒ Hot dip galvanizing.
- ⇒ SCADA or any control system: It is possible to change and check the position of road blocker with touch screen control panel, mobile devices (ios-android), computer, etc.



## MODELS

- ⇒ Raised height :1250mm.
- ⇒ Width : 2000mm-6000mm.
- ⇒ Length : 2220mm.
- ⇒ Blocker depth : 305mm.
- ⇒ Foundation depth : 350mm.

## MAIN BODY MEASUREMENTS AND FOUNDATION

