



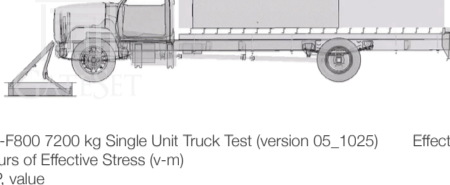
ROAD BLOCKER BARRIERS GSR-SL Series

GateSet's new release GSR-SL Series High Impact Rated Hydraulic Shallow Mount Road Blockers are designed to protect sensitive areas that require high level of security. The product has already proven its durability and stopping power through computer aided element analysis tests, providing compliance to IWA14-1:2013 / PAS68 / ASTM M40 standards at P1 level with N2B vehicle. With its powerful hydraulic unit, GateSet GSR-SL Series Shallow Mount Road Blockers provide reliable solutions for securing sensitive areas against ram attacks. Suitable for high frequency heavy duty operation, GSR-SL Series Road Blockers also provide easy and fast installation for projects with construction limits and time constraints.

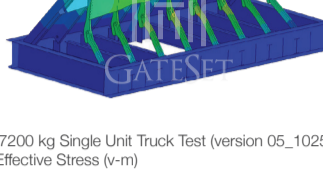
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Crash Analysis Screens*

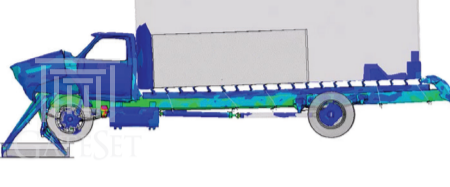
NCAC-F800 7200 kg Single Unit Truck Test (version 05_1025)
Contours of Effective Stress (v-m)
max IP value
min=0, at elem# 2001040
max=0, at elem# 2001040



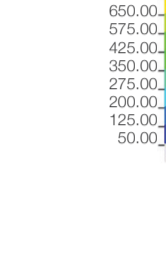
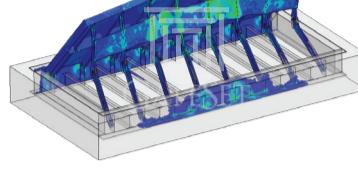
NCAC-F800 7200 kg Single Unit Truck Test (version 05_1025)
Contours of Resultant Displacement
min=0.0153723, at node# 2073544
max=239.176, at node# 3119517



NCAC-F800 7200 kg Single Unit Truck Test (version 05_1025)
Effective Stress (v-m)
max IP value
min=0, at elem# 2000171
max=1812.61, at elem# 2020452



NCAC-F800 7200 kg Single Unit Truck Test (version 05_1025)
Contours of Effective Stress (v-m)
max IP value
min=0.020215002, at elem# 3048204
max=647.26, at elem# 2288397



* Detailed report of Computer Aided Finite Elements Crash Analysis is available on demand

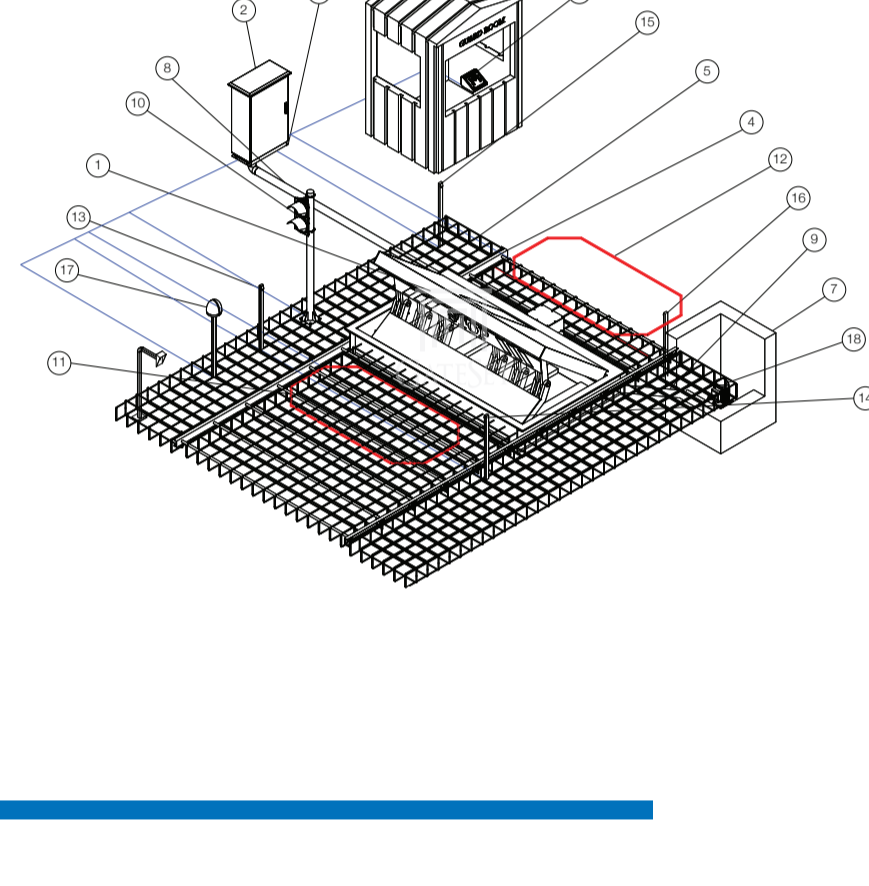
Usage Areas

- Access Control
- Military Sites
- Government Offices
- Police Headquarters
- Research Centers
- Embassies
- Airports
- Industrial Areas

Featured Characteristics

- Heavy Gauge Structure** Road Blocker Structure is made out of heavy gauge material. Underground case is 300 NPU Steel. Inside the blocking wedge there are 8 sets of 3-up hinge bars, constructed from 25x36 mm axle and 12 mm Steel Plates, which support the structure against impact.
- Heavy Duty Operation** Designed for intense industrial usage with 100% Duty Cycle, by powerful HPU, strong wedge and durable hydraulic lift piston. With its 5.5 kW powerful motor GSR-SL Series are capable to complete up or down movement in 3-4 seconds without any limitation of daily usage.
- Ease of Installation** Shallow mount design allows installation within a substantially shallow pit when compared to conventional road blockers. This provides a huge advantage for projects with construction constraints.
- Speed Control & Position Sensing** GSR-SL Series possess two advanced features which extend the usage life of the system: Position Detection with weather proof proximity limit sensors which immediately stops the motor operation at limit points. Descending Speed at Closing and Opening Points which provides a silent operation.
- High Impact Resistance** GSR-SL Series Blockers are designed by using the cutting-edge manufacturing computer technology to meet K8 level of DOS SD-STD-02.01 standards. Computer aided element tests have proved that GSR-SL Series withstands an impact force of 7,500 kg @ 65 km/h.
- Flexible and Reliable** Ease of integration with all access control equipment through its Schneider SR2 A201BD PLC unit which possesses 12 Inputs and 8 Outputs. All electronic equipment are Schneider branded with the highest reliability available in the market.

System Components and Accessories



Main Components

- Road Blocker Component
- Control Cabinet
- Control Keyboard

Foundational Components

- Reinforced Steel Profiles
- Reinforced Steel Bars
- Control Cabinet Mounting Plate
- Drainage Pit Concrete
- Hoses and Electrical Cables at PVC Underground Pipe
- Drainage Pipe

Optional Accessories

- Traffic Lights
- Front Loop Detector
- Rear Loop Detector
- Front Photocell Transmitter
- Rear Photocell Transmitter
- Front Photocell Receiver
- Rear Photocell Receiver
- Flashing Warning Light
- Drainage Pump

Additional Accessories

- Siren
- Remote Control
- RFID - LRF Card Reader

HPU Options

- Emergency Operation Kit
- 24 V DC Operation with Batteries

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Control Cabinet



HPU (Hydraulic Power Unit)

- New Compact Design
- * More Silent Operation
- * Heavy Duty with 5.5 kW Motor
- * All Equipment are European and Turkish Made
- * Galtech Hydraulic Pump (Italian)
- * PZB Manual Pump (Italian)
- * Ease of Access to All Equipment



Control Cabinet

- New Compact Design
- * 2 mm Steel Thickness
- * Extra Strong Anti-Rust Finishing
- * Weather Resistant Sealing
- * Dust Filtered Air Cooler
- * Operation Testing Panel on Cover
- * Ease of Access - Single Cover
- * Ease of Installation - Mounting Base



ECU (Electronic Control Unit)

- New Compact Design
- * Operation Control with Schneider PLC
- * All Equipment are European Made
- * Electrical Safety
- * Multilevel Overcurrent Protection
- * Operation Testing Panel on Cover
- * Ease of Access - High Positioning

HPU and ECU Options



EOK (Emergency Operation Kit)

- Optional Feature
- * High Pressured Accumulator at HPU
- * Panic Button at Remote Keyboard
- * 1.5 Second Raising Time in Case of Emergency



Control Cabinet

- Optional Features
- * HPU 2400
- * EOK
- * HPU2400 + EOK



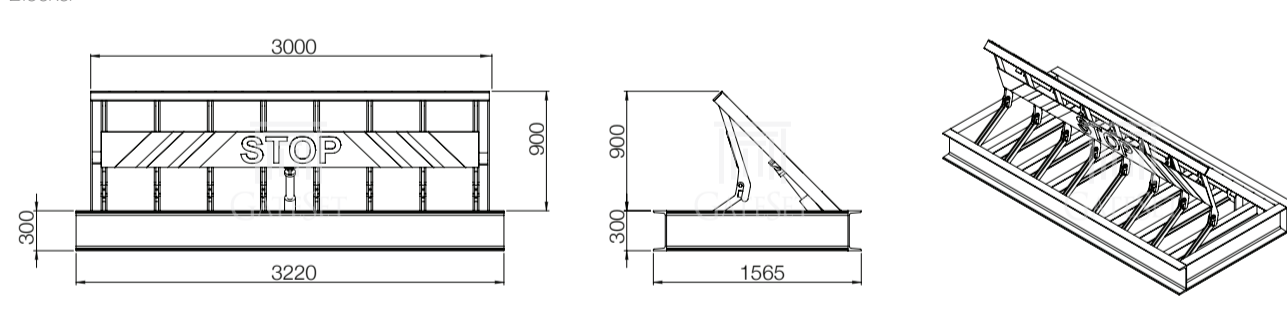
HPU 2400 KIT

- Optional Feature
- * Spare 24 V DC Motor and Pump at HPU
- * 2x 12 V 50 mAh Batteries at ECU
- * Meanwall (Canadian) Battery Charger Circuit at ECU
- * 10 Complete Cycles without Electricity
- * Seamless Auto Switch between AC and DC Power

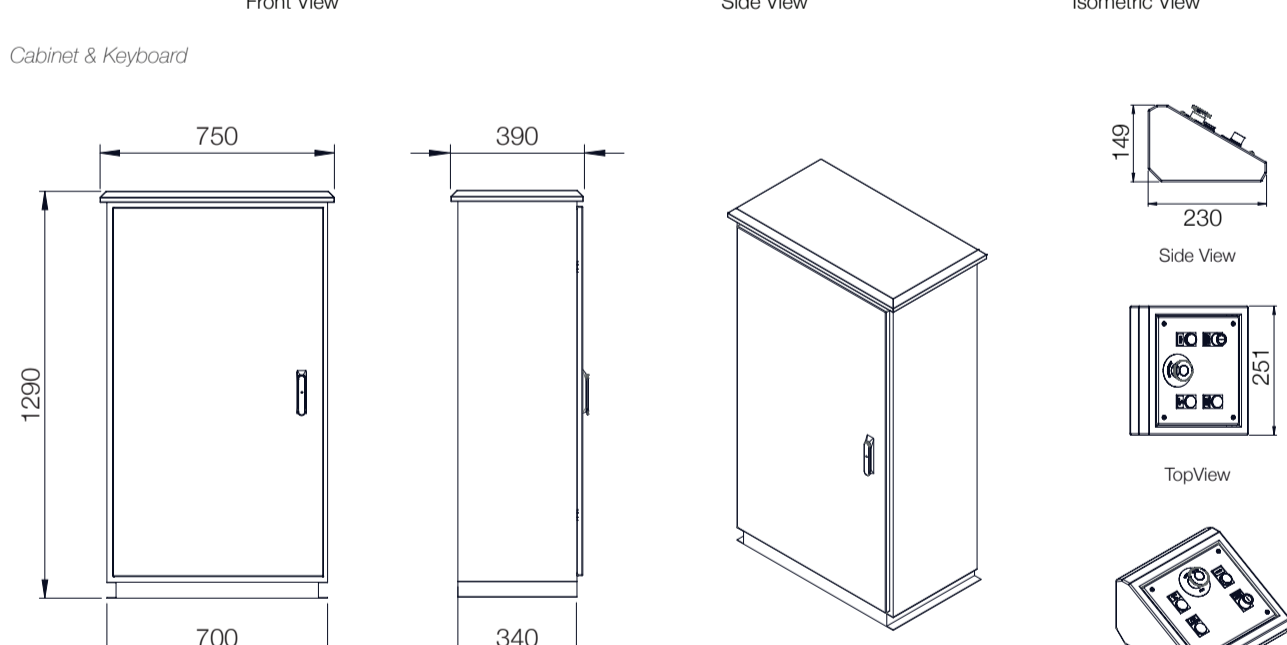
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Drawings and Dimensions*

Blocker



Cabinet & Keyboard



* Dimensions are given for 3000 mm Blocking Width, 900 mm Obstacle Height and Control Cabinet with Standard Configuration. Subject to change depending on design or project needs without prior notice

Technical Specifications

BLOCKER PHYSICAL CHARACTERISTICS	
BLOCKING LENGTH	3000 mm
OBSTACLE HEIGHT	900 mm (standard)
CASE DIMENSIONS	3220 x 1565 x 300 mm (for GSR3090-SL)
BLOCKER UNDERGROUND CASE	Heavy Gauge 300 mm NPU Steel Profiles, Supported by vertical 160 mm NPI Steel Profiles
BLOCKING WEDGE	Heavy Gauge 12 mm Steel Plate, Supported by vertical 12 mm Steel Plates, 8 sets of 3-up hinge bars, with 25 mm Diameter 36 mm long axles
TREATMENT	Two Component Surface Tolerant Epoxy Mastic Coating for Corrosion Protection (Jotamastic) and Painted with Polyester Outdoor Paint, Black Finishing with Yellow Stripes on the Circular Front Steel and Top Plate
OPERATIONAL CHARACTERISTICS	
DRIVE	Heavy Duty Hydraulic
DRIVE POWER	Min 10 Bars / Max 120 Bars
RISING / FALLING TIME	3-4 Seconds (Adjustable)
SPEED CONTROL	Slowing Down at Opening and Closing Limit Points
WORKING FREQUENCY	300+ Cycles/Hour
EMERGENCY OPERATION	Rising in 1 Second (with optional EOK Kit)
POWER OUTAGE	Capable to make up to 10 Complete Cycles without Electricity (with optional HPU2400 Kit)
POSITION DETECTION	2 Weather Proof Proximity Limit Sensors
MANUAL OPERATION	Ascending and Descending with Manual Hand Pump
CONTROL CABINET PHYSICAL CHARACTERISTICS	
CONTROL CABINET	2 mm Thick Steel, Electrostatic Thermal Painting for Anti-Corrosion Resistance
CABINET DIMENSIONS	Feature: Standard +HPU2400 +EOK +HPU2400+EOK
(may vary in accordance with project specific features)	Width: 990 mm 510 mm 510 mm 510 mm
	Length: 750 mm 1250 mm 1310 mm 1310 mm
	Height: 1290 mm 1050 mm 1250 mm 1250 mm
ELECTRICAL CHARACTERISTICS	
ELECTRIC MOTOR	380 V AC / 50-60 Hz. 5.5 kW.
CONTROL PANEL	Schneider SR2 A201BD PLC, Integration with Various Systems
TEST PANEL	Integrated Test Panel on Electric Cabin Cover, Phase Indicators
RESISTANCE CHARACTERISTICS	
IMPACT RESISTANCE	7,500 kg at 65 km/h
AXLE LOAD RESISTANCE	35 Tons
PROTECTION CLASS	IP 65
OPERATING TEMPERATURE	+ 70 °C / - 15 °C
EQUIPMENT AND ACCESSORIES	
HYDRAULIC PIPES	18/1.5 Connector - 1/2 Radius, 350 Bars Max Pressure, 10 m Pipe Length (standard)
SAFETY EQUIPMENT	Emergency Stop Button (standard), Front and Rear Loop Sensor (optional)
STANDARD ACCESSORIES	Remote Control Keyboard (wired), Test Unit on ECU Panel, Oil Level and Temperature Indicator, Manometer
OPTIONAL ACCESSORIES	Traffic Lights, Flashing Light, Siren, Warning Sign, Drainage Pump, Touchscreen Control Keyboard
CERTIFICATIONS AND WARRANTY	
CERTIFICATIONS	ISO 9001:2015, CE
WARRANTY	2 Years

