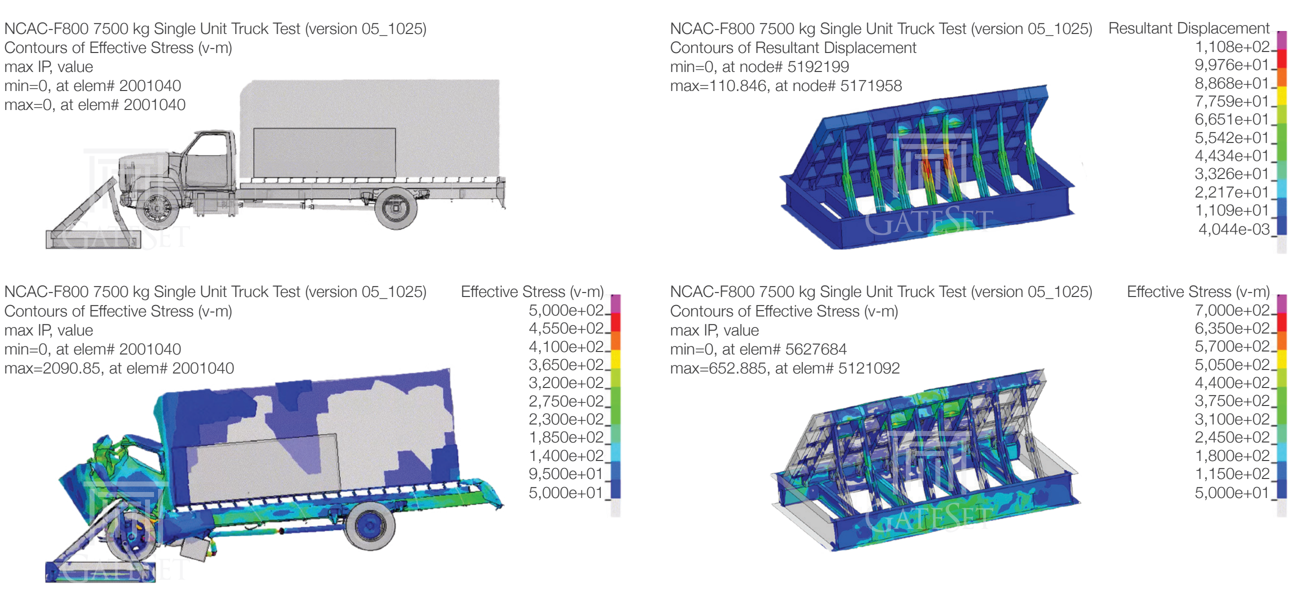
GATESET

VEHICLE
ACCESS
CONTROL

ROAD BLOCKER
BARRIERS
GSR-SXSeries

GateSet's new release GSR-SX 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 M50 standards at P1 level with N3C vehicle. With its powerful hydraulic unit, GateSet GSR-SX Series Shallow Mount Road Blockers provide reliable solutions for securing sensitive areas against ram attacks. Suitable for high frequency heavy duty operation, GSR-SX Series Road Blockers also provide easy and fast installation for projects with construction limits and time constraints.

Crash Analysis Screens*



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

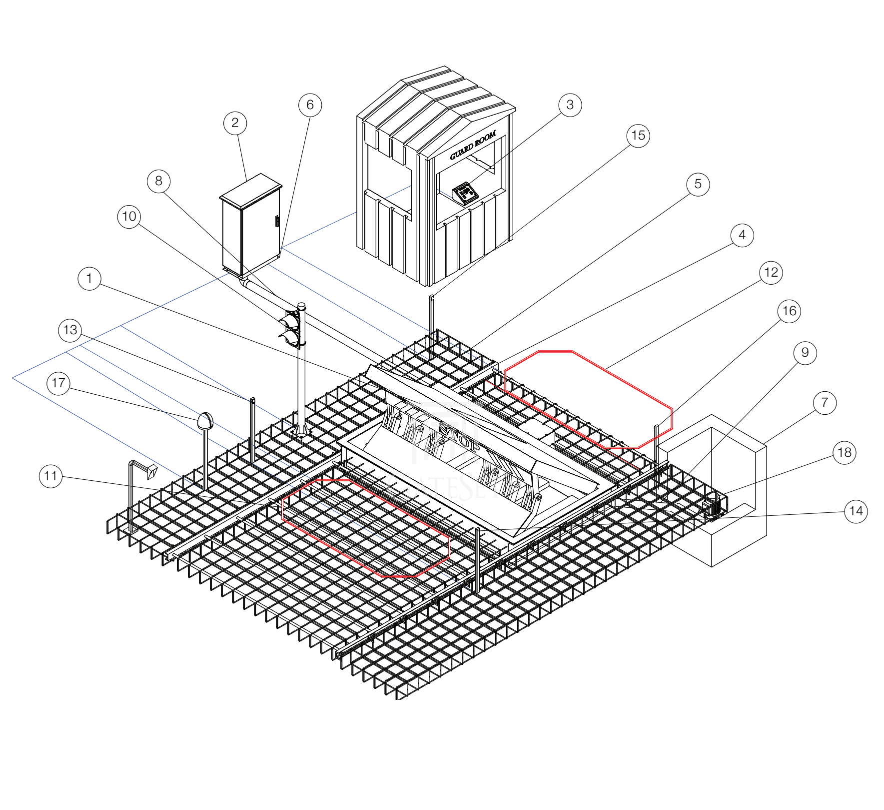
Usage Areas

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 400 NPU Steel. Inside the blocking wedge there are 8 sets of 3-up hinge bars, constructed from 40x120 mm and 20x120 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-SX 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-SX 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-SX Series Blockers are designed by using the cutting-edge manufacturing computer technology to meet K12 level of DOS SD-STD-02.01 standards. Computer aided element tests have proved that GSR-SX Series withstands an impact force of 7,500 kg @ 80 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
1- Road Blocker Component
2- Control Cabinet
3- Control Keyboard
Foundational Components
4- Reinforced Steel Profiles
5- Reinforced Steel Bars
6- Control Cabinet Mounting Plate
7- Drainage Pit Concrete
8- Hoses and Electrical Cables at PVC Underground Pipe
9- Drainage Pipe
Optional Accessories
10- Traffic Lights
11- Front Loop Detector
12- Rear Loop Detector
13- Front Photocell Transmitter
14- Front Photocell Receiver
15- Rear Photocell Transmitter
16- Rear Photocell Receiver
17- Flashing Warning Light
18- Drainage Pump
Additional Accessories
* Siren
* Remote Control
* RFID - LR Card Reader
HPU Options
* Emergency Operation Kit
* 24 V DC Operation with Batteries

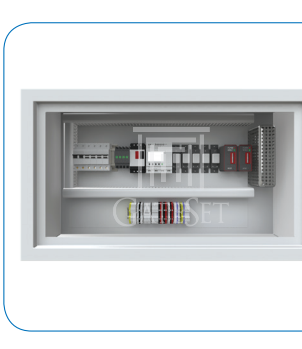
Control Cabinet

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

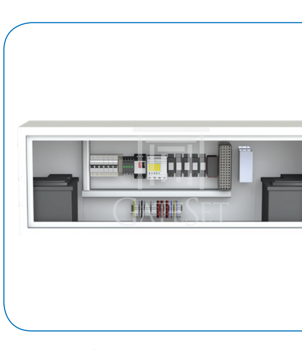
HPU and ECU Options

EOK (Emergency Operation Kit)

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

Control Cabinet

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

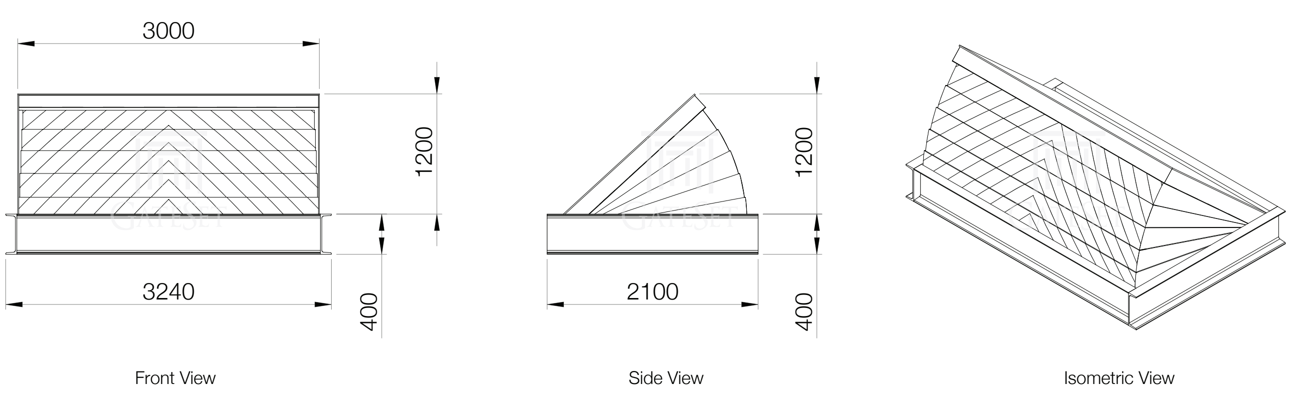


HPU 2400 KIT

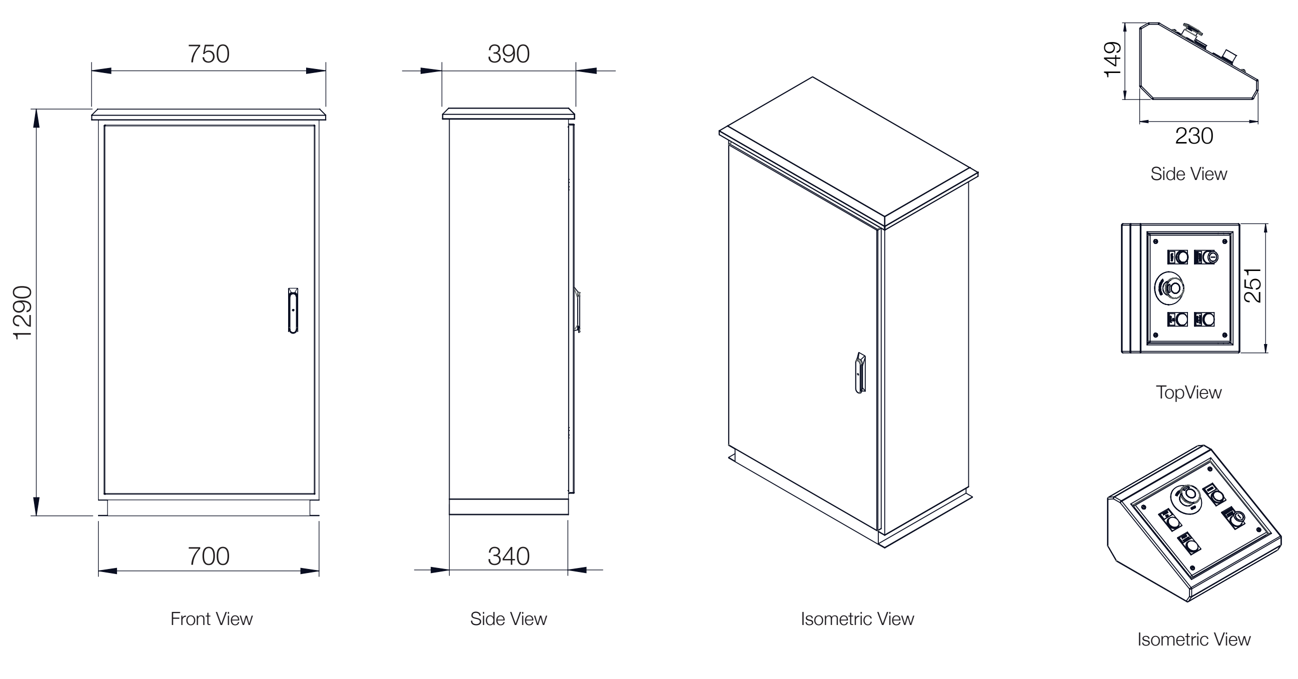
- Optional Feature
* Spare 24 V DC Motor and Pump at HPU
* 2x 12 V 50 mAh Batteries at ECU
* Meanwell (Canadian) Battery Charger Circuit at ECU
* 10 Complete Cycles without Electricity
* Seamless Auto Switch between AC and DC Power

Drawings and Dimensions*

Blocker



Cabinet & Keyboard



* Dimensions are given for 3000 mm Blocking Width,1200 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	1200 mm (standard)
CASE DIMENSIONS	3242 x 2100 x 400 mm (for GSR3120-SX)
BLOCKER UNDERGROUND CASE	Heavy Gauge 400 mm NPU Steel Profiles, Supported by horizontal 200 mm NPI Steel Profiles
BLOCKING WEDGE	Heavy Gauge 160 mm NPU Steel, Supported by Vertical 160 mm NPI Steel Profiles and 160x12 mm Steel Plates, Steel Top Plate Thickness 12 mm 8 sets of 3-up hinge bars, constructed from 40x120 mm and 20x120 mm Steel Plates
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:	390 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 80 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

VEHICLE
ACCESS
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ACCESS CONTROL SOLUTIONS
TURNSTILES ▪ BARRIERS ▪ ID SYSTEMS

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