



ROAD BLOCKER BARRIERS

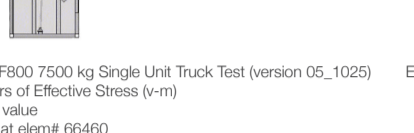
GSR-X Series

GateSet GSR3100-X Series **High Impact Rated** Hydraulic Road Blockers are designed to meet ASTM M50 / IWA14-1 / PAS68 level impact resistance. The product has already proven its durability and stopping power through computer aided element analysis tests and has already passed the simulation stage of Crash Test Certification. In cooperation with an accredited crash test laboratory, the product is in process to be tested against IWA14-1:2013 standards and expected to be awarded in accordance with computer analysis. The newest member of trusted GSR Series Road Blockers provide maximum protection in areas that require high-level security through its ideal design, high-quality components and top grade material.

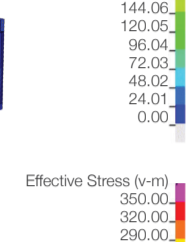
GSR-X Datasheet v.2.0

Crash Analysis Screens *

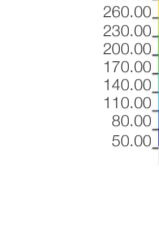
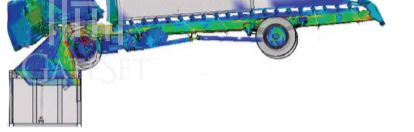
NCAC-F800 7500 kg Single Unit Truck Test (version 05_1025)
Contours of Effective Stress (v-m)
max IP value
min=0, at elem# 11656
max=0, at elem# 11656



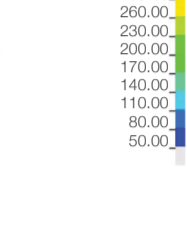
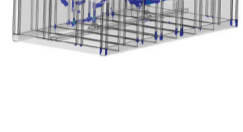
NCAC-F800 7500 kg Single Unit Truck Test (version 05_1025)
Contours of Resultant Displacement
min=0 at node# 70465
max=238.688, at node# 318887



NCAC-F800 7500 kg Single Unit Truck Test (version 05_1025)
Contours of Effective Stress (v-m)
max IP value
min=0, at elem# 66460
max=1563.1, at elem# 893353



NCAC-F800 7500 kg Single Unit Truck Test (version 05_1025)
Contours of Effective Stress (v-m)
max IP value
min=0, at elem# 66460
max=710.934, at elem# 292752



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

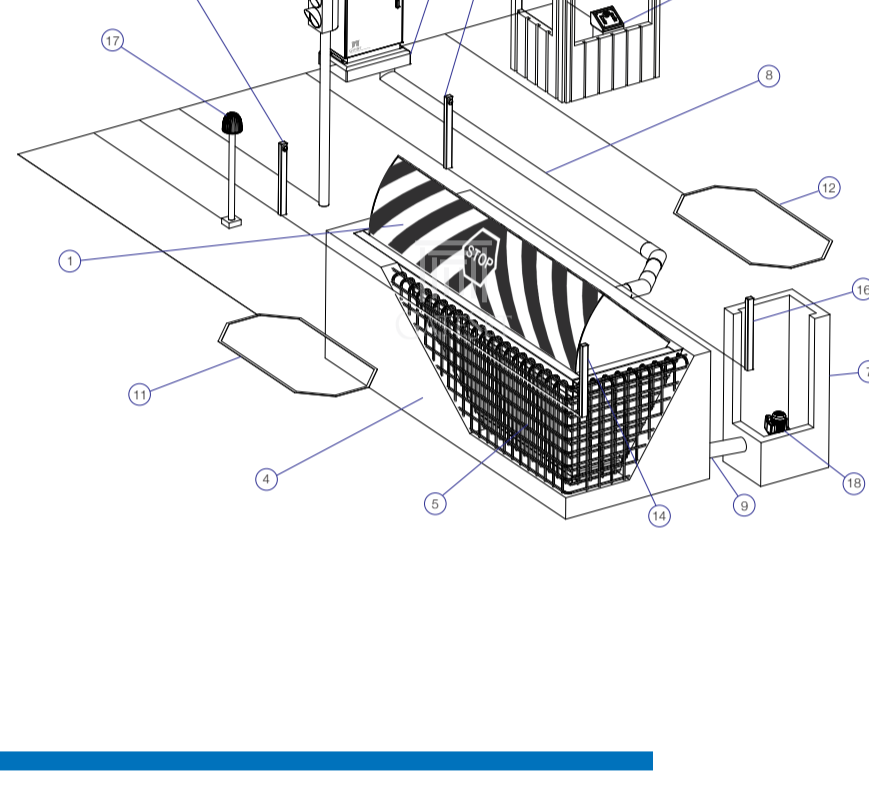
Usage Areas

- 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 has a top frame made of 200 NPU Steel. Inside the blocking wedge there are 6 sets of 3-up hinge bars, constructed from 40x100 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-X Series are capable to complete up or down movement in 3-4 seconds without any limitation of daily usage.
- Speed Control & Position Sensing** GSR-X 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-X 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-X 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.

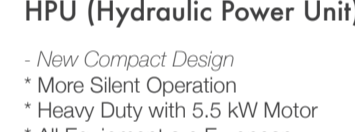
System Components and Accessories



- Main Components**
 - Road Blocker Component
 - Control Cabinet
 - Control Keyboard
- Foundational Components**
 - Foundation Concrete
 - Reinforced Steel Bars
 - Control Cabinet Mounting Plate
 - Drainage Pit Concrete
 - Hoses and Electrical Cables at PVC Underground Pipe
 - Drainage Under Pipe
- Optional Accessories**
 - Traffic Lights
 - Front Loop Detector
 - Rear Loop Detector
 - Front Photocell Transmitter
 - Front Photocell Receiver
 - Rear Photocell Transmitter
 - Rear Photocell Receiver
 - Flashing Warning Light
 - Drainage Pump
- Additional Accessories**
 - Siren
 - Remote Control
 - RFID - LR Card Reader
- HPU Options**
 - Emergency Operation Kit
 - 24 V DC Operation with Batteries

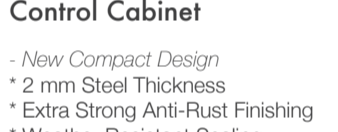
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Control Cabinet



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

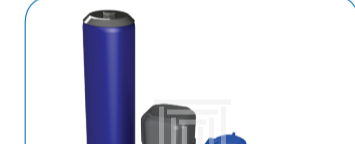
- New Compact Design
- * 2 mm Steel Thickness
- * Extra Strong Anti-Rust Finishing
- * Weather Resistant Sealing
- * Dust Filtered Air Cooler
- * Operation Testing Panel on Cover
- * Ease of Access - Single Cover
- * Ease of Installation - Mounting Base



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



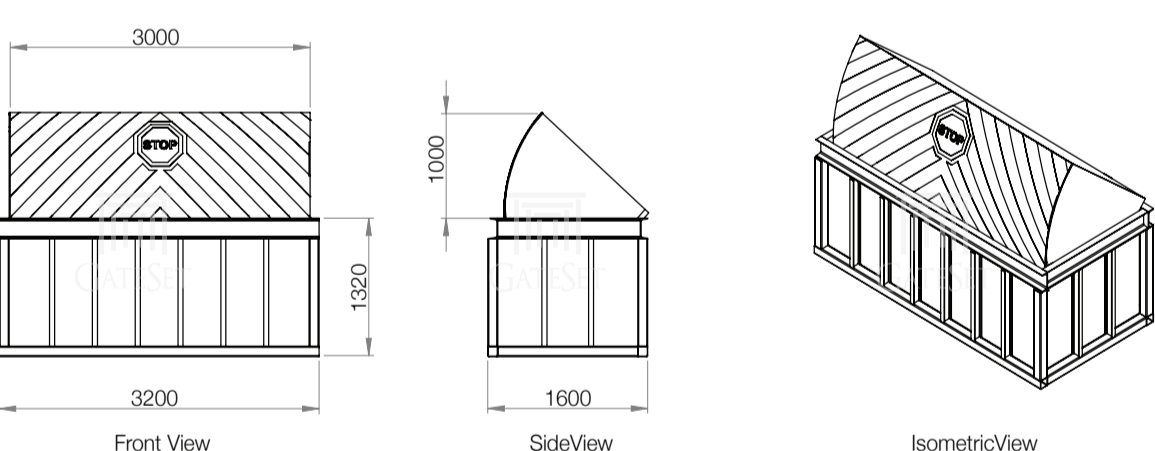
HPU 2400 KIT

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

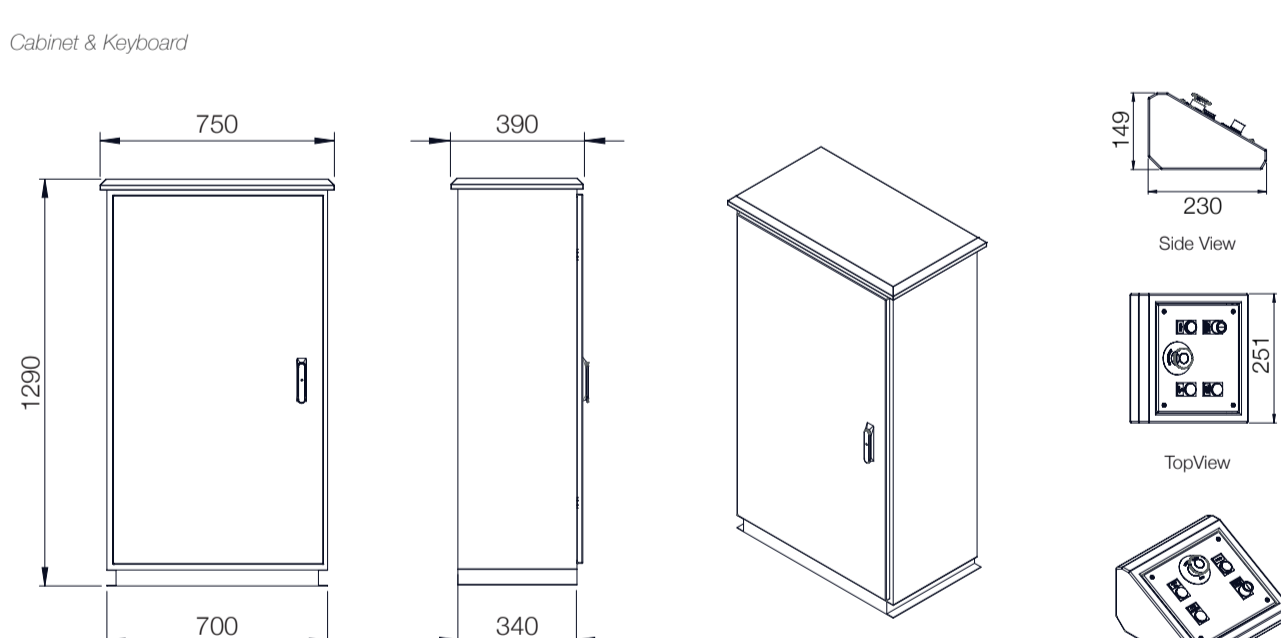
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Drawings and Dimensions *

Blocker



Cabinet & Keyboard



* Dimensions are given for 3000 mm Blocking Width, 1000 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	1000 mm (standard)				
CASE DIMENSIONS	3200 x 1600 x 1320 mm (for GSR3100-X)				
BLOCKER UNDERGROUND CASE	Heavy Gauge 200 mm NPU Steel Profile Top Frame, Supported by vertical 100 mm NPI Steel Profiles placed all along the perimeter of the case within intervals less than 500 mm				
BLOCKING WEDGE	Heavy Gauge 160 mm NPU Steel, Supported by Vertical and Diagonal 100 mm NPI Steel Profiles. Steel Top Plate Thickness is 12 mm. 6 sets of 3-up hinge bars, constructed from 40x100 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				
RIISING / 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 1.5 Seconds (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 PIPES 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 9001:2008, CE				
WARRANTY	2 Years				