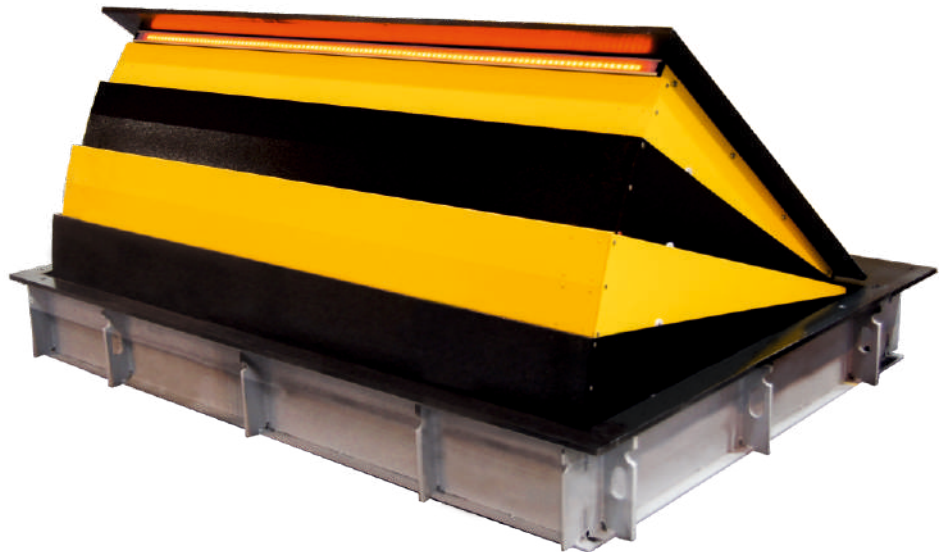


HIGH SECURITY ROAD BLOCKER M50 (K12) ANTI-RAM CLASS

ASTM F2656-07, M50, P1 (-2,4m)

Crash-tested
according to



RELIABLE, PRACTICAL AND COST-EFFECTIVE SOLUTION TO
PROVIDE 100% SECURITY OF YOUR TERRITORY

High security road blocker intends to prevent unauthorized access of vehicles to a secured perimeter and provide highest anti-terror protection. TiSO road blocker has successfully passed crash test and certified according to ASTM F2656-07, M50, P1 (-2,4m) standard. Being developed by engineers with extensive background in appropriate field, TiSO anti-ram road blocker is featured by installation and civil works simplicity, reliability, durability, and functionality. All these features together, make this TiSO road-blocker an ultimate solution for a vehicle access control establishment.

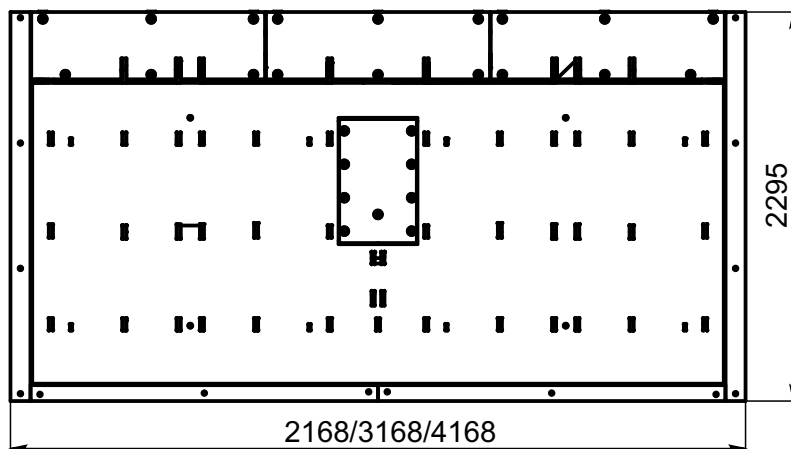
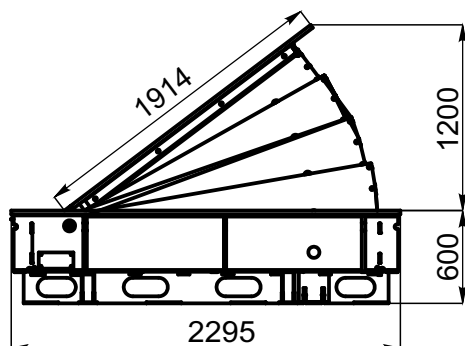
Installation areas

- Governmental Institutions
- Military Bases
- Nuclear Power Plants
- Production sites (Industrial Plants)
- Commercial areas
- Financial institutions
- Airport Premises
- Business (Office) Center
- Hotels
- Sport Complexes
- Recreation areas
- Urban areas
- Education Institutions



www.tiso.global
+380 (44) 291-21-11
e-mail: sales@tiso.global

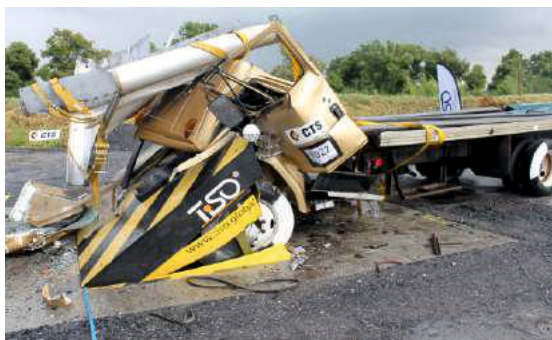




TECHNICAL SPECS:

| Model | RB332 | RB333 | RB334 |
|----------------------------|--|-------|-------|
| Installation type | Shallow mounted | | |
| Drive | Hydraulic (HPU) | | |
| Width, mm | 2000 | 3000 | 4000 |
| Height, mm | 1200 | | |
| Impact resistance, J | 1 843 500 | | |
| Axle load, t | 15 (standard) 30/50 (optional) | | |
| Rising time, s | 3,5 (1,5 with EFO) | | |
| Lowering time, s | 3,5 | | |
| Operating temperatures, °C | -10 / +40 (standard) -40 / +65 (optional) | | |
| Power supply | 3 phase 400 V, 50/60 Hz | | |
| Protection level | For road blocker: IP 67 For control box: IP 54 (standard); IP 65 (optional) | | |
| Material | Structural steel C22 (powder coated) | | |





Contracting Client:
Tiso Blockers, LLC
72, Yamska str.
03150 Kyiv
Ukraine

Certificate

of passed Barrier Testing Programm

ASTM F 2656-07, M50, 14 July 2015

| | |
|------------------------|-------------------------------|
| Type of product: | „AUIA – 333 Automatic“ |
| Vehicle penetration: | -2.4 m (dynamic) |
| Mass [Target]: | 6800 kg (±140 kg) |
| Mass [Test]: | 6855 kg |
| Impact speed [Target]: | 80.0 km/h (75.1 km/h – above) |
| Impact speed [Test]: | 83.5 km/h |
| Angle: | 90 ° |
| Major debris: | n/a (≥ 25 kg) |

Observations

| | |
|--|-----|
| Vehicle restrained: | yes |
| Vehicle immobilized: | yes |
| Road Blocker still functions after impact: | yes |

| | |
|---------------------|------------|
| Penetration Rating: | P1 (-2.4m) |
|---------------------|------------|



Sincerely,


Dipl.-Ing. Peter Schimmelpfennig
(Managing Partner)

Amelunxenstraße 30, 48167 Münster, Germany

www.crashtest-service.com

Advantages

- Shallow mounting installation type
- Reliability and durability
- Low operating & maintenance cost
- Service simplicity
- High intensity operation mode

Additional options

- Hydraulic hose extension
- Wireless control units
- Traffic light
- Heating device (for climates with bellow 0°C)
- Induction loop one channel detector
- Sound alarm
- EFO (Emergency Fast Rising Operator)
- Manual Pump unit;
- Others upon request



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