BOLLARD AUIA-342

M50 (K12) ANTI-RAM CLASS

ASTM F2656-07, M50, P1 (-0.6m)

Crash-tested according to





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

TisO anti-ram automatic bollards AUIA 342 being certified according to ASTM F2656-07, M50, P1 (-0.6m). They are intended to prevent unauthorized access of vehicles to a secured perimeter and provide highest level of anti-terrorist protection. Being developed by engineers with huge background in appropriate field, TisO anti-ram automatic bollards have the following features: reliability, durability, functionality, and perfect resistance to external impact. All these factors together make this bollard a universal solution for a vehicle access control establishment.

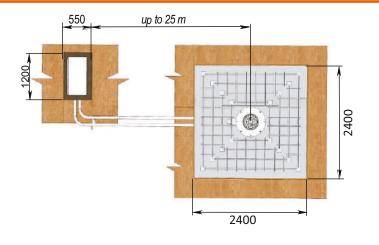
Installation areas

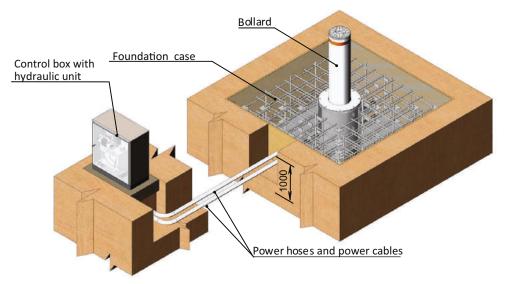
- Governmental Institutions
- Military Bases
- Nuclear Power Plants
- Production sites (Industrial Plants)
- Commercial areas
- Financial institutions
- Airport Premises
- Business (Office) Center
- Hotels
- Sport Complexes
- Recreation areas
- Urban areas
- Education Institutions

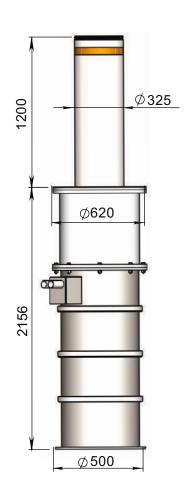












TECHNICAL SPECS:

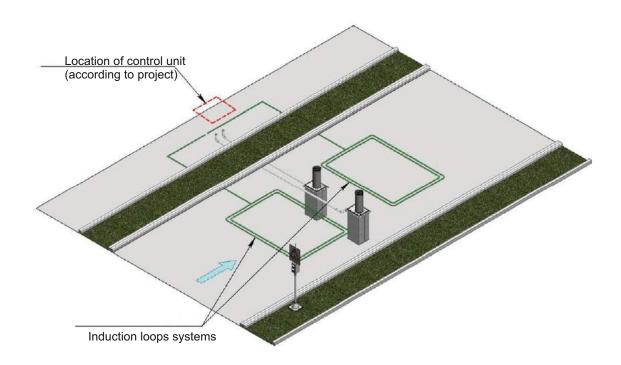
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Model	AUIA-342
Moving cylinder diameter, mm	325
Lift height, mm	1200
Drive	Hydraulic (external)
Power supply	220V / 380 V, 50/60 Hz
Power consumption, kW	3.0
Load per axle, t	20
Moving cylinder thickness, mm	20
Protection level	IP 67 for Bollard IP 55 for control box
Impact resistance, kJ	1845,8
Lowering time, s	3,0
Rising time, s	4,5
Operating temperatures, ° C	-40/+60
Moving cylinder materials	Stainless steel sleeve Painted steel sleeve (any RAL upon request) Customized steel sleeve







ADDITIONAL FEATURES



Advantages

- Reliability and durability
- Low operating and maintenance cost
- Service simplicity
- High intensity operation mode

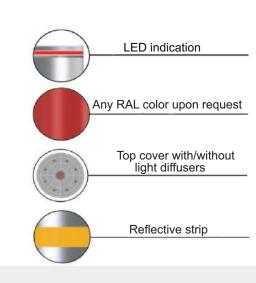
Options

- Sound signal
- Remote control panel
- Any RAL color
- Forced water discharge
- Manual pump
- Radio receiver with 2 key fobs
- Traffic lights
- Heating device
- Protective sensors (indiction loops)

Standard

- Light signals
- Bollard in assembly
- Installation casing
- Packing
- Eye-bolts M16













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

Certificate

of passed Barrier Testing Programm

ASTM F 2656-07, M50, 1st October 2015, CTS-Test No: 18236

Type of product:

Vehicle penetration:

Mass [Target]:

Mass [Test]:

Impact speed [Target]:

Impact speed [Test]:

Angle:

Major debris:

"Bollard AUIA - 342"

-0.6 m (dynamic)

6800 kg (±140 kg)

80.0 km/h (75.1 km/h - above)

6862 kg

83.5 km/h

n/a (≥ 25 kg)

Observations

yes

yes

yes

Vehicle restrained: Vehicle immobilized:

Bollard still functions after impact:

P1 (-0.6m)

Penetration Rating:





Sincerely

Dipl-Ing. Peter Schimmelpfennig

(Managing Partner)

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