

HIGH SECURITY AUTOMATIC BOLLARD M50 (K12) ANTI-RAM CLASS

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

Crash-tested
according to

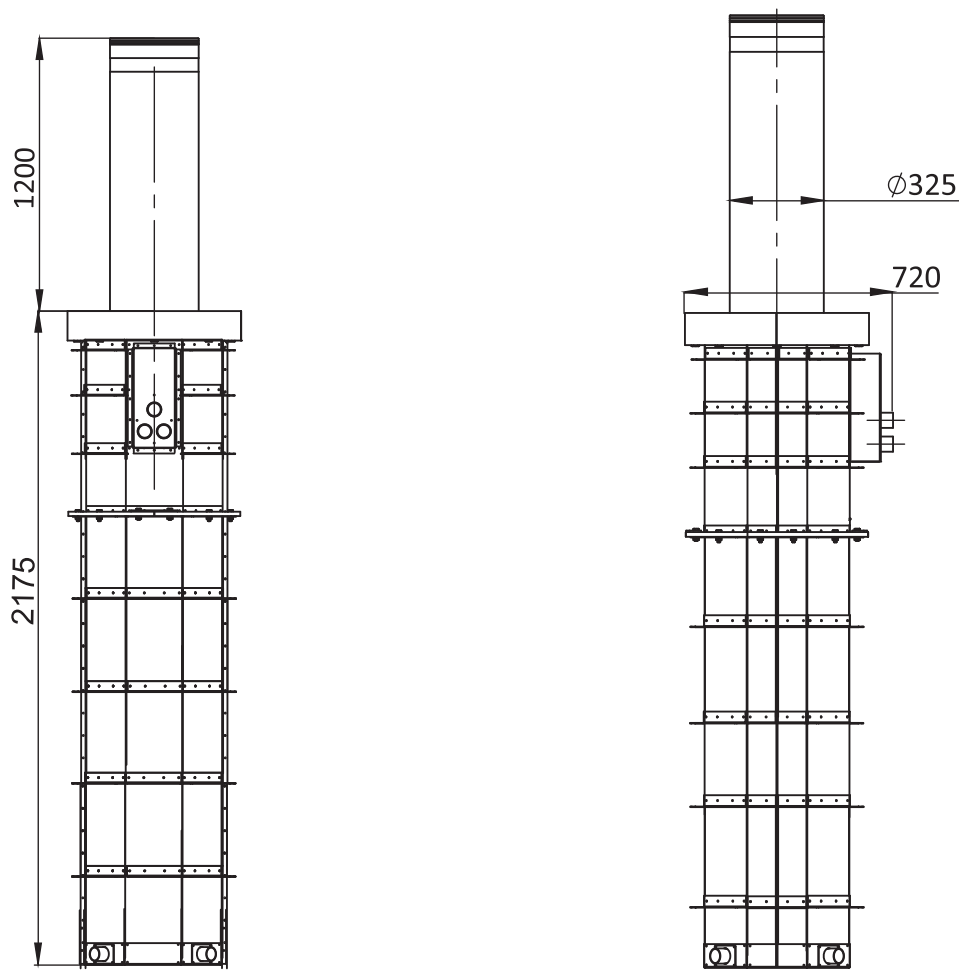


RELIABLE, PRACTICAL AND COST-EFFECTIVE SOLUTION TO
PROVIDE 100% SECURITY OF YOUR TERRITORY

CartPoland automatic high security bollards intend to prevent vehicles unauthorized access to secured areas and keep the highest level of antiterrorism protection. Mostly this type of equipment demanded for installation sites with high risk of heavy vehicle attack: public places (stadiums, fairgrounds), governmental institutions, or military infrastructures etc. CartPoland automatic high security bollards have been certified according to ASTM F2656 standard, including M30 P1 (-1,2m) and M50 (-0,6m). Literally regular set consists of blocking segment with installation case, outside control box with HPU and PLC in it, connection cable and hydraulic/oil hoses, and push button control unit. Wide range of accessories enables trouble less operation under severe environment conditions. Herewith this type of equipment can be easily integrated and interconnected with ACS and other vehicle access control equipment (arm barriers etc.).

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:

Model	Rb342
Drive	Hydraulic (external)
Tube diameter, mm	325
Tube height, mm	1200
Wall thickness, mm	30
Impact resistance, kJ	1845,0
Load per axle, t	15
Rising speed, cm/sec	~35
Lowering speed, cm/sec	~38
Operating temperatures*, ° C	-40 /+60
Power supply	3 phase 400 V, 50/60 Hz
Protection level	IP 67 for Bollard IP 55 for control box
Tube materials	Galvanized and powder coated tube (any RAL up on request) Stainless steel sleeve / casing up on request

* for temperatures lower than -10° C use the heating device
for temperatures higher than +40° C use the cooler device



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:	„Bollard AUIA – 342“
Vehicle penetration:	-0.6 m (dynamic)
Mass [Target]:	6800 kg (±140 kg)
Mass [Test]:	6862 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
Bollard still functions after impact:	yes
Penetration Rating:	P1 (-0.6m)
pre-test	post-test
	

Sincerely,


Dipl.-Ing. Peter Schimmelpfennig
(Managing Partner)

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www.crash-test-service.com

