

BOLLARD AU1A-348

M30 (K4) ANTI-RAM CLASS

ASTM F2656-07, M30, P1 (-1.2m)

Crash-tested
according to

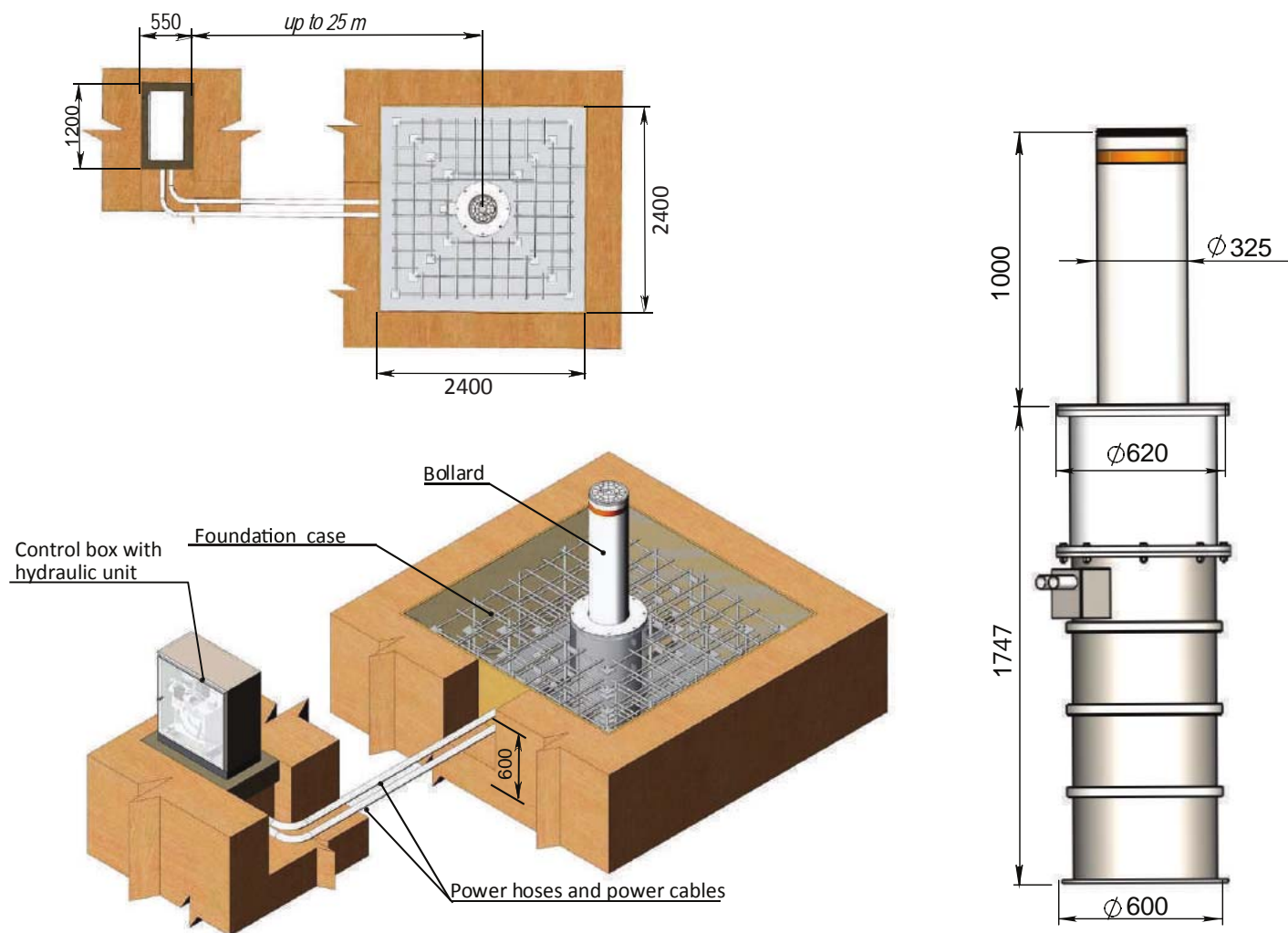


RELIABLE, PRACTICAL AND COST-EFFECTIVE SOLUTION TO
PROVIDE 100% SECURITY OF YOUR TERRITORY

Anti-ram bollards intend to prevent unauthorized access of vehicles to a secured perimeter and provide highest level of anti-terror protection, equivalent to K4 class. Customers are allowed to choose between two modifications: AU1A 348 with integrated/built-in hydraulic unit and AU1A 348 with hydraulic pump installed within outside control cabinet. As for the first one, it is advantageous for installations in severe climate conditions as well as at installation sites which require large distances between control unit and bollard itself. On the other hand, the option of outside cabinet is easier in service and enables to operate several units by one hydraulic pump, if permissible according to project. Being developed by engineers with extensive background in appropriate field, AU1A 348 is featured with reliability, durability, functionality, and outstanding impact resistance.

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 SPECIFICATIONS

Model	AUIA-348
Moving cylinder diameter, mm	325
Lift height, mm	1000
Installation depth (with foundation case), mm	600
Weight (without foundation case), kg	~711
Drive	Hydraulic (internal / external)
Power supply	3 phase 380 V, 50/60 Hz
Power consumption, kW	1,5
Load per axle, t	20
Moving cylinder thickness, mm	20
Protection level	IP 67 for Bollard IP 55 for control box
Impact resistance, kJ	679,9
Lowering time, s	2,0
Rising time, s	3,0
Operating temperatures, ° C	-35 /+50
Moving cylinder materials	Stainless steel sleeve Painted steel sleeve (any RAL upon request) Customized steel sleeve



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

Certificate

of passed Barrier Testing Programme

ASTM F 2656-07, M30, 23th October 2015, CTS Test-No: 18249

Type of product:	Bollard „AUIA – 348”
Vehicle penetration:	-1.2 m (dynamic)
Mass [Target]:	6800 kg (±140 kg)
Mass [Test]:	6868 kg
Impact speed [Target]:	50.0 km/h (45.0 km/h – 60.0 km/h)
Impact speed [Test]:	50.6 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 (-1.2m)
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Sincerely
crashtest-service.com®
Dipl.-Ing. Peter Schmitt
(Managing Partner)

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ADVANTAGES

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 (induction loops)

STANDARD

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