TESCON Hydraulic Retractable Bollard
TC-RB 300

Areas of Application:

- Government Buildings
- Palaces
- Military Facilities
- Embassies
- Banks
- Airports
- Power Stations & Critical Infrastructure
- Refineries
- Industrial Areas

<u>Technical Data Sheet for Bollard:</u> Type TC-RB 300

Technical Specification / Datasheet	**TC-RB 300**
Manufacturer	TESCON Sicherheitssysteme AG
Country of Manufacturing/ Origin	Germany
Hydraulic power pack:	**Below ground inbuilt 4 kW heavy duty power pack. Normal operation time for raise: approx.. 6 secs.** **and lower:3-4 secs.** **EFO raising with inbuilt accumulator system: approx.. 3 secs.** **Operation in case of power failure:** **Min. 2-3 cycles with accumulator battery**
Controller:	**Siemens** PLC controller. capable of interfacing with a variety of remote-control devices, security access systems and key card readers

Corrosion Protection:	Galvanized and plastic coated according to TESCON 4-S (Zinc based multi-layer plastic coating/as per OEM certified as per ISO EN7253/ISO 9227 from third party lab for minimum 2000 hrs in salt water testing of the products)
Blocking height from finished road surface:	**1100 mm**
Technical Specifications/ Datasheet	**TC-RB 300**
Bollards Diameter:	**355 mm, 30 mm wall thickness**
Steel grade:	**High tensile steel**
Crash Rating:	**PAS68 7,5 to/ 80 km/ h**
Kinetic energy of Impact:	➢ **1852 kJ**
Vehicle Penetration:	**P2 (bollard fully operational after impact)**
Further test results:	**Bollard fully operational after the testing. Any type of vehicle will be stopped and destroyed.**
LED Warning Lights, Red	**Red LED ring, protected by top cover plate**
Control cabling:	Control cabling from control panel to the bollards units and power cabling from the nearest distribution box tothe bollards control units are in the scope of system integrator.
Warning Signs	**Red reflective tape**
Control Unit:	PLC in control box for installation inside a building, control voltage 24 V. distance between bollard and control unit : min. 50 m
Hydraulic fluid:	**Mineral oil HLP 22**
Safety Loop detectors	**Double loop detector included in control system.**
Dainage system:	**Sump pumps can be connected**

Contact for automatic activation of EFO	**Input contacts from Boom barriers are included**
Operating time/ Raising:	**approx. 6 seconds**
Operating time/ Lowering:	**approx. 3-4 seconds**
Emergency operations:	Bollard remains in the raised position during power failure and can be lowered manually. Bollard can be raised multiple times with accumulator battery.
System Integration:	Bollards can take signal from boom barrier (boom missing contact). Bollard will be activated by boom missing contact. Bollard control is capable for integration with over all architecture of surveillance and access control system.
Hydraulic motor:	**Comply, 4 kW, 3 phase, 415 volt, 50/60 hz**
Wheel load:	**100 kN, 10 tons**
Temperature range:	-20 to 65 Degree
Optional:-	**heating for up to -40 degree C**
Operation of bollards	Bollards can be operated in parallel or individually