



REVROY

Solutions For Controlled Access

MODEL – RR-AHB-CR12-P1

## ANTI-TERROR HYDRAULIC BOLLARD

The deployment of an anti-terror crash rated bollard requires careful consideration & Planning and deep understanding of its impact on traffic movement due to enhanced security for facilities with perceived threats. These are dictated by the location, type of facility secured etc.

Therefore, it is today a common practice for hotels, govt. buildings, data centers defence establishments etc., for conducting a detailed Risk-Analysis to study the vulnerability & evaluate the threat. A threat analysis report is prepared for setting in place a security plan for any building. It is from this- that a decision to deploy a crash rated bollard system is taken.

Bollards are designed to protect high-target buildings from concerted vehicular attacks.

**REVROY** presents the strongest crash tested bollard, impacted by a fully laden 7.2-ton truck impacting it at 80 km/h in accordance with **IWA 14-1:2013** standard at **HORIBA MIRA, UK**. The test demonstrated dead-end stop with 0 penetration 0.8 meter dynamic penetration complying to **Highest Standard P1**.

Testing the Bollard immediately post impact for its subsequent trouble-free operation demonstrated the success of the test with its flawless functioning.

**RR-AHB-CR12-P1** bollard has been manufactured keeping in mind the corrosive nature of tropical climates. All parts of the bollard are galvanised to protect from & prevent corrosion for long trouble-free operation even when submerged in water. To give a fine balance between aesthetics and security, all bollards optionally come with an aesthetically pleasing stainless steel sleeve and LED top plate that easily merges with the environment.



## SALIENT FEATURES

- 0 Meter Static Penetration in physical crash test and 0.8m dynamic penetration
- Test carried out on singular bollard
- Galvanized and Epoxy coated for anti-corrosion
- Provision for Bollard Actuation in case of power sabotage
- 1.2m above the ground
- Can be easily integrated with all Access Control devices
- 100% Duty Cycle

## CONTROL UNIT

The Program Logic Controller Unit designed can be tailored to address our client's requirement and customized for integration to varied access control systems and logics that may need to be built for effective and efficient operation of the Bollard System.

## SAFETY

Safety is paramount for all the products manufactured by REVROY & the **RR-AHB-CR8-P1** Bollardis no different. Elaborate care has been taken in designing and providing safety by building a Dual-Safety mechanism. Following Sensors are integrated for vehicular & Human Safety:

- Ground Loop Detector for vehicle detection.
- Human Safety is ensured by Infrared Photo Beam Sensors.



Post-Impact Frontal View



<b>CRASH RATED BOLLARD MODEL - RR-AHB-CR12-P1</b>	
<b>DESCRIPTION</b>	<b>PARTICULAR</b>
Make	<b>REVROY</b>
MODEL NO.	<b>RR-AHB-CR12-P1</b>
DRIVE UNIT	HYDRAULIC
RATED DIAMETER	355 MM, 360 MM (WITH SS COVER)
RATED LENGTH	1200 MM
CYLINDER MATERIAL	HIGH TENSILE CARBON STEEL
PRODUCT RATING (SINGULAR BOLLARD)	IWA 14:2013 BOLLARD V/7200 [N2A] 80/90:0.8
IMPACT LOAD	7.2 TON @ 80 KMPH WITH 0 M STATIC PENETRATION & 0.8 M DYNAMIC PENETRATION (P1)
RATED IMPACT ENERGY	1756 KJ
RAISING & LOWERING TIME	6-8 SEC. (CUSTOMISABLE)
EMERGENCY FAST OPERATION (EFO)	2 SEC. (OPTIONAL)
POWER SUPPLY	415 V (AC), 50 Hz
PROTECTION CLASS	IP 68
DUTY CYCLE	100%
OPERATING TEMPERATURE	-20 DEG. CELSIUS TO +70 DEG. CELSIUS
ILLUMINATION	RED LED/REFLECTIVE STRIPS
FINISH	RAL PAINTED OR SS 304/316 COVER
MCBF	50,00,000
MANUAL LOWERING OPERATION	AVAILABLE
SAFETY AGAINST VEHICLE	LOOP DETECTOR
SAFETY AGAINST HUMAN TRAFFIC	PHOTO SENSOR
CONTROL UNIT	PLC BASED CONTROL UNIT WITH TAILOR MADE INTEGRATION WITH ALL ACCESS CONTROL DEVICES





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“Finest from the very best from around the world”



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