

CRASH RATED BOOM BARRIER - GAJRAJ 4

Swaraj Secutech presents India's first indigenously designed and manufactured Crash Rated Boom Barrier. The barrier has been physically crash tested by Horiba MIRA, U.K. wherein barrier stopped a 7.2 ton truck @ 48 km/h with only 0.5 meter penetration.

The crash beam incorporates a design protected high tensile carbon steel which on collision transmits the kinetic energy through the crash beam to the reinforced foundation. All parts of the barriers are manufactured keeping in mind the corrosive nature of the tropical Indian Climate and are corrosion proof.

The barrier can be operated manually in times of power failure or automatically by using an optional accumulator.



TO WHOM THIS MAY CONCERN

17th January 2019

To whom it may concern,

This is to confirm that a Swaraj Secutech PVT LTD Gajraj 4 rising arm gate was impact tested at HORIBA MIRA Ltd on 11th January 2019 under Test number W0004.

The Impact test was carried out in accordance with **IWA14-1:2013 Impact test Specification** for Vehicle Security Barriers with the target impact point being the midpoint of the clear opening gap of the gate and the test item was given a performance classification of:

IWA 14-1:2013 Gate V/7200[N2A]/48/90:0.5

The Vehicle Penetration was 0.5metres.

For more details, including the classification of the product, please refer to HORIBA MIRA test report when available No: 1218434-009.

Yours Sincerely,
For and on Behalf of HORIBA MIRA LTD



Dave Johnstone
Consultant - HSP1



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SAFETY AGAINST ACCIDENT:

Safety during operation has been most important to us and we provide dual safety mechanism when the barrier is operated automatically.

1. Safety against vehicle: loop detector
2. Safety against human traffic: photo sensor

SPECIFICATION

MODEL NO.	GAJRAJ 4
RATING	K4/IWA 14-1:2013 Gate V/7200[N2A]/48/90:0.5 (7.2-ton truck impacted @ 48 kmph)
IMPACT LOAD	656 KILO JOULES
BARRIER TYPE	CRASH BOOM BARRIER
MECHANISM	ELECTR-HYDRAULIC / MANUAL
DIMENSIONS	LENGTH : 3-7 METERS
POWER SUPPLY (AUTOMATIC)	420 V (AC), 50 Hz (3 PHASE)
OPERATING PRESSURE (AUTOMATIC)	PRESSURE IN THE OIL PUMP CAN BE ADJUSTED BETWEEN 30 TO 120 BARS
SPEED	6-8 SECONDS
EMERGENCY FAST OPERATION	2 SEC.(OPTIONAL & CUSTOMISABLE)
OPERATIVE OPTIONS	PUSH BUTTON / REMOTE CONTROL / MANUAL
PROTECTION CLASS	IP 66 (CUSTOMISABLE)
MTBF	5 MILLION CYCLES
IN CASE OF POWER FAILURE	MANUAL OPERATION POSSIBLY BY HAND PUMP / BYPASS VALVE
MATERIAL OF CONSTRUCTION	HIGH TENSILE CARBON STEEL
DUTY CYCLE	100%
SAFETY MECHANISM	SENSORS FOR HUMAN AND VEHICULAR SAFETY IS PROVIDED AS A STANDARD ACCESSORY ALONG WITH VISUAL AND AUDIBLE WARNING LAMP
ACTIVATED WARNING LIGHTS (OPTIONAL)	ACTIVATED WARNING LIGHTS WHILE BARRIER IS IN OPERATION
ADDITIONAL FEATURES	<ul style="list-style-type: none"> • THE HYDRAULIC POWER-PACK CAN BE INSTALLED WITHIN THE MAIN BARRIER BODY OR CAN BE SEPARATELY INSTALLED IN CASE OF SPACE CONSTRAINT • PAIR OF PHOTO SENSORS AND LOOP DETECTOR WILL BE PROVIDED AS STANDARD ACCESSORIES FOR SAFETY AGAINST HUMAN TRAFFIC AND VEHICLES



“PROUDLY MADE IN INDIA”