



## Crash Tested Fixed Bollards



### General Description

OPTIMA crash tested fixed bollards are designed for high security army, industrial, governmental and commercial buildings, sites, complexes etc.

Actual crash test is realized in 14 June 2013. Optima bollard is tested by a N3 type truck weighing 7500 kg and travelling at a speed of 82,6 km/hr.

Optima crash tested bollard destroyed the vehicle and it was still functioning after the impact. Therefore Optima crash tested bollards successfully achieved PAS68:2010 7500 N3/80/90 standard.

### CRASH TESTED FIXED BOLLARDS

1. Diameter of the bollard is min  $\varnothing 270$ mm.
2. Height is 1000mm and some part of it is embedded in concrete.
3. Hot dip galvanized.
4. Epoxy painted with black and yellow stripes.
5. Bollard meets PAS68:2010 crash rating.
6. Material: Special type of steel.

