

# HIGH-SECURITY AUTOMATIC BOLLARDS



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This is to certify that

O&O's bollards item BO27580001  
model OAK 800 4



Has been successfully tested with a dynamic simulation using test conditions as specified per PASS 68:2010, as per MIRA's project 1203119, as a

**SINGLE UNIT SYSTEM**

stopping a 7500kg N2 truck, travelling at 48 km/h

Signed

Stefano Valzania  
Managing Director, O&O Srl



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This is to certify that

O&O's bollards item BO330120001  
model OAK 1200 12



Has been successfully crash tested in accordance with the IWA 14-1:2013 specification, as a

**SINGLE UNIT SYSTEM**

stopping a 7200kg N3C truck travelling at 80 km/h (50 mph), as per test report nr. 1202164-008-001

Signed

Stefano Valzania  
Managing Director, O&O Srl

Anti-terrorism bollards tested and certified by an independent body, according to standards IWA14-1:2013 V/7200[N3C]/80/90 (crash tested) and PAS 68:2010 7500[N2]/50 (crash simulated) (formerly K12 and K4, DoS ASTM 2656, single bollard).

Anti-terrorism protection even guaranteed with just a single bollard.

Independent lateral hydraulic pump for each bollard: should any control unit fail, the other bollards keep protecting the access while maintenance operations are under way.

