

Vehicle Security Barrier Test Programme

Test B4125 on 3 October 2009

APT-30-ST 219mmØ Bollard

TRL Report CPR481



Test procedure:
PAS 68:2007 TEST TYPE 7500-48
APT-30-ST 219MMØ BOLLARD

Customers:

Contact	Company/Organisation	Address
Paul Forman Roger Knight	CPNI APT Controls Ltd	PO Box 60628, London, SW1P 9HA The Power House, Chantry Place Headstone Lane, Harrow HA3 6NY

Test Date:
3 October 2009

Test Number:
B4125

Author:
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Report Issue Date:
27 October 2009

For questions relating to this test please contact the Author at TRL

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Approvals

Author



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Technical reviewer



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Summary of Results

Test Agency

TRL Ltd, Crowthorne House, Nine Mile Ride, Wokingham, Berkshire, RG40 3GA

Product

Designation: APT-30-ST 219mmØ Bollard
 Drawings supplied: N/A
 Installation Foundation: 16 June 2009
 Product: 1 July 2009

Test Vehicle

Make/Type Mercedes 815 7.5t curtain side
 VIN WDB9700252K720613
 Kerb weight 4675 kg
 GVW 7500 kg

Impact Specification

	Target	Achieved
Mass	7500 [\pm 75] kg	7500kg
Speed	48 [\pm 3] km/h	47 km/h
Angle	90 deg	90 deg
Energy	667 kJ	639 kJ

Product result

Restrained vehicle

Vehicle penetration

Dynamic 0 m
Static 0 m

Dispersion of debris

0 m

Vehicle result

Immobilised vehicle

Manufacturer [Details]

APT Controls
 The Power House, Chantry Place
 Headstone Lane, Harrow HA3 6NY

PAS 68:2007 Performance classification — vehicle impact test	
Performance classification [note: not given for penetration >25m]	Fixed bollard V/7500/48/90:0/0
Product type	Fixed bollard
Test weight [kg]	7500
Test speed [km/h]	47.0
Vehicle penetration [m] - 25 if >25m	0
Dispersion of major debris [m] - 25 if >25m	0
Engine running after impact	No
Vehicle driveable after impact	No
Follow-on vehicle could pass barrier	No