

Summary

Test Reference K0028
Test Agency MIRA Ltd, Watling Street, Nuneaton,
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Product

Manufacturer Marshalls Mono Ltd
Birkby Grange
Birkby Hall Road
Huddersfield
HD2 2YA

Designation Rhino Guard 75/30 Seat Frame
Brief Description Steel box section frame 855mm above ground, with three main uprights linked by cross members. Steel reinforced foundation 2.4x1.0m 380mm deep. Impact in opposite direction to MIRA Test Ref K0005.

Drawings Supplied 31st May 2013
Installation of Foundation (Date) 18th March 2011
Installation of Product (Date) 18th March 2011

Test Vehicle

Make/Type Leyland DAF 45 Box-body
VIN XLRAE45BFOL230284
Kerb Weight (kg) 4000
GVW (kg) 7500

Impact Specification

	Target	Achieved
Mass (kg)	7500	7460
Speed (km/h)	48	47.4
Angle (deg)	90	89.4
Energy (kJ)	667	644

Test Result description Vehicle halted and disabled with no clear gap left. All cross members of seat frame detached, and centre upright bent over backwards.

Penetration

Dynamic Vehicle Penetration (m) -0.37
Static Vehicle Penetration (m) -0.64
Dispersion of Debris (m) No Debris

Performance Classification – Vehicle impact Test

Performance Classification: V/7500(N2)/48/90:0.0/0.0

Note: not given for Vehicle Penetration > 25m

Product Type	Seat Frame
Test Mass (kg)	7460
Test Speed (km/h)	47.4
Vehicle Penetration (m)	0.0
Dispersion of Debris (m)	0.0
Engine Running post test	No
Vehicle Driveable Post test	No
Follow-on vehicle could pass barrier	No