

Road blocks - technical details



Lorry Crash Test recorded and supervised by German Technical Inspectorate.
Video recordings and TÜV-certificates on request.

LORRY - CRASH - TEST

- dynamic impact loads up to 2 x 2.500 kN
- crash tests and results certified by German Technical Inspectorate
- heavy vehicles at high speed are stopped reliably
- block segment fully operational after impact
- full security level retained

We have rehearsed the emergency

elkosta road blocks are designed to remain fully operational after the impact and consequently continue to guarantee the full level of security.

Besides extensive static calculations the road blocks



underwent several crash tests which are certified by the German Technical Inspectorate. The tests were carried out with an impact of a 7.5 t lorry with 80 km/h and certify the reliability and high level of security. After the crash test the **elkosta** road blocks were capable of operating without limitation.

Heavy-duty vehicles at high speed are stopped reliably.

elkosta road blocks offer highest security.



Road block type DSP 8

- dynamic impact load 2x 2,500 kN
- blocking width 6 m
- warning lights integrated in blocking segment
- high performance hydraulic equipment in separate protective housing (operating period: approx 2 secs)
- hydraulic accumulator for operation in case of power failure

Road blocks with	static impact load				dynamic impact load			
type	DSP 1	DSP 2	DSP 3	DSP 4	DSP 5	DSP 6	DSP 7	DSP 8
impact from front (kN)	600	2 x 600	600	2 x 600	1.250	2 x 1.250	2.500	2 x 2.500
impact from rear (kN)	50	50	100	100	100	100	100	100
wheel load (DIN 1072) (kN)	100	100	100	100	100	100	100	100
blocking height (mm)	650	650	650	650	650	650	650	650
blocking width (mm)	2.000 - 3.500	4.000 - 8.000	2.000 - 3.500	4.000 - 8.000	2.000 - 3.000	3.500 - 8.000	2.000 - 3.000	3.500 - 8.000
weight underground casing (kg)	1.500 - 2.300	2.700 - 3.900	1.650 - 2.450	2.850 - 4.050	3.700 - 4.500	5.100 - 7.100	5.800 - 6.800	7.900 - 10.400
weight blocking segment (kg)	600 - 900	1.000 - 1.400	600 - 900	1.000 - 1.400	1.350 - 1.750	2.000 - 3.000	2.000 - 2.600	2.900 - 4.400
hydraulic drive (kW)	4	5,5	5,5	7,5	7,5	11	11	15
raising and lowering time (standard) (sec)	5/4	5/4	5/4	5/4	5/4	5/4	5/4	5/4
raising and lowering time (option) (sec)	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2
<ul style="list-style-type: none"> tensile strength of structural steel components 490 - 630 N/mm² wall thickness of structural components 10 - 15 mm hydraulic locking of blocking segment blocking segment with conspicuous warning marks (red/white or yellow/black) and integrated warning lights hand pump for emergency operation in case of power failure hydraulic accumulator for operation in case of power failure (option) 					<ul style="list-style-type: none"> below-ground unit ready for installation separate protective housing for electro-hydraulic drive (type 3 - 8) control in separate steel casing oil tank heating and space heating additional blocking spikes to the front segment of road block (optional) warning lights in blocking segment 			

Control equipment

According to the function required the standard control or for fully automated movement the "elkosta Control" (approved design) is used.

- push button
- magnetic/digital card reader
- remote radio control
- induction loops
- sluice function
- key switch
- existing reader systems
- photo cells
- proximity card readers
- crash-pad (proximity switch at the barrier pole)

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