

BARRIER LIFT SYSTEM

CERTIFIED TO

PAS 68 CRASH-TESTED

Ezi Security Systems

SERIOUS SECURITY IS EZI

BARRIER LIFT SYSTEM

The crash rated elkosta Barrier Lift System (BLS) offers maximum security for highly sensitive entry or exit points against unauthorised vehicles attempting to break through as it complete destroys their chassis. Every heavy vehicles travelling at high speeds are stopped reliably. It can be utilised individually or in combination with other elkosta products to achieve a sluice arrangement forming a secure vehicle check point.

Typical areas of application are banks, detention centres, power stations, industrial or military premises, airports and other high security zones. The elkosta BLS performs to the highest safety level. Its high-quality material and the proven elkosta TRI-PROTECT long-term corrosion protection, means installation in all climate zones is possible. Furthermore, it only requires minimal excavation across the roadway.

"SECURED ENTRIES EVEN FOR THE HEAVIEST VEHICLES"

The crash beam of the BLS raises very quickly to the upper position and blocks the road. Due to the warning colour, the elkosta BLS is clearly visible. In the lowered position the elkosta BLS is completely unobtrusive and flush with the road surface. It corresponds to bridge class SLW 60, so the heaviest vehicles can use the secured entry.

ADVANTAGES OF THE BARRIER LIFT SYSTEM

- Vehicle crash-tested to internationally accepted standards
- Robust construction with heavy gauge material and high tensile steel
- Reliable operation and low maintenance
- Short operating time, protection starts immediately
- Traversable in lowered position according to bridge class SLW 60
- Installation in all climate zones possible
- Crash beam in optional warning colour
- Manual hand pump facility
- Optional accumulator for emergency operation during power failure
- Emergency function by a hand pump or an accumulator (option)
- Certified to US DOS SD-STD-02.01 Rev. A from March 2003
  - K12 up to 6 m/10 m
  - K4 up to 9 m
- Certified to PAS 68:2007

** EZI MASTER MANUAL BARRIER LIFT SYSTEM ARE ALSO AVAILABLE

STANDARD TECHNICAL SPECIFICATION

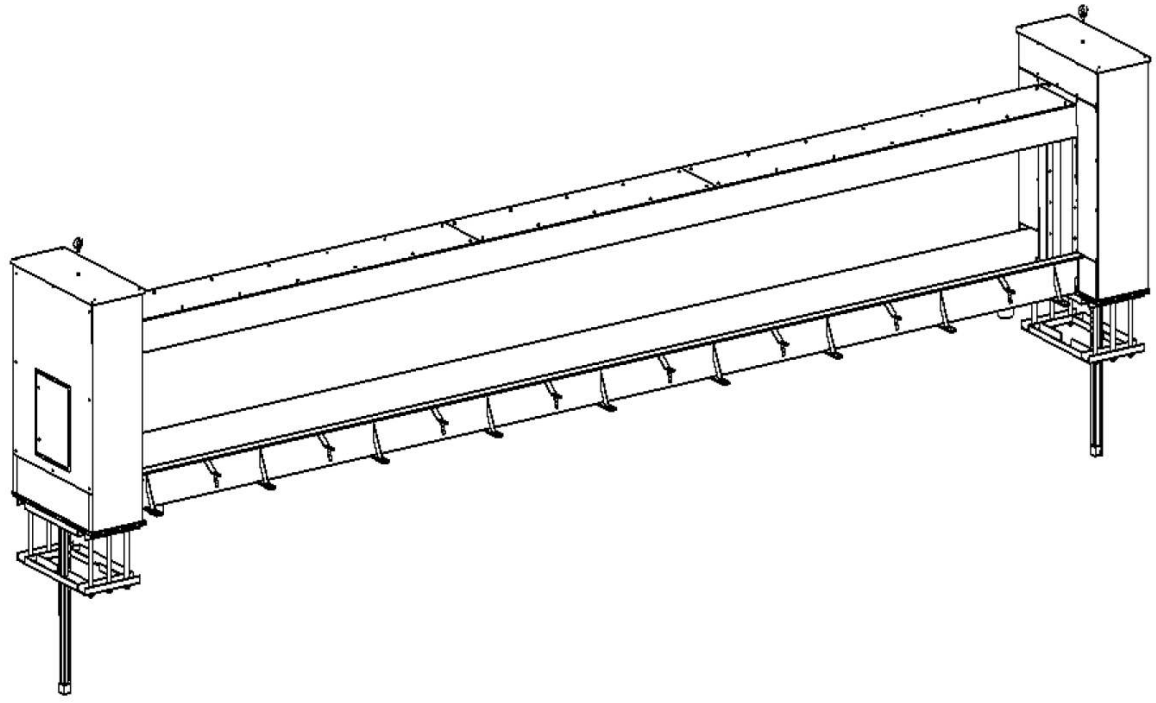
BARRIER LIFT SYSTEM K4

Design	Barrier Lift System with electro-hydraulic drive in separate drive cabinet, guide posts, anchor baskets, horizontal crash beam and ground frame for installation in roadway.
Impact Load	612 kJ (6.8 t @ 48 km/h) Crash test certified according to DOS SD-STD-02.01 Rev. A 03/2003 K4/L3
Clear Width of Opening	3.0 to 9.0 m in 500 mm increments (CWO)
Blocking Height	1100 mm
Crash Beam	Rectangular hollow section profile RHS 450x250 with cover plate
Guide Posts	H x W x D: 1753 mm x 1030 mm x 450 mm (height without hydraulic cylinder),
Ground Frame	L x W x H: (CWO - 6 mm) x 820 mm x 310 mm (width without anchors, height without 150 mm high drainage sleeves) Total width approx. 953 mm
Anchor Baskets	H x W x D: 580 mm x 860 mm x 460 mm
Drive Cabinet	H x W x D: 1400 mm x 1200 mm x 400 mm incl. 200 mm high base (standard/RO1)
Emergency Operation	Via hand pump (standard) Accumulator incl. Rechargeable batteries for one movement (RO1) (optional)
Operating Speed	Raising: approx. 0.17 m/sec Lowering: approx. 0.20 m/sec

Wheel Load	100 kN according to SLW60 – DIN 1072
Drive	4.0 kW, 400 / 230 V (three-phase), 50 Hz
Control Unit	PLC in control box installed in drive cabinet (standard), PLC in separate control box for wall mounting inside a building (optional), control voltage 24 V
Weight	Approx. 500 – 1370 kg (crash beam) Approx. 1500 kg (guide posts and anchor baskets) Approx. 300 – 820 kg (ground frame) Approx. 280 – 400 kg (drive cabinet)
Colour (Standard)	Crash beam RAL 9010 pure white Cover plate crash beam RAL 9010 pure white Guide posts RAL 9010 pure white Ground frame RAL 9010 pure white Anchor baskets galvanised finish Drive cabinet RAL 7035 light grey
Colour (Optional)	Crash beam striped RAL 3000 flame red RAL 9010 pure white RAL 3000 flame red or other RAL colours or DB colours Cover plate crash beam other RAL colours or DB colours Guide posts other RAL colours or DB colours Ground frame other RAL colours or DB colours
Temperature Range	-20°C – 60°C

STANDARD TECHNICAL DRAWING

BARRIER LIFT SYSTEM K4



STANDARD TECHNICAL SPECIFICATION

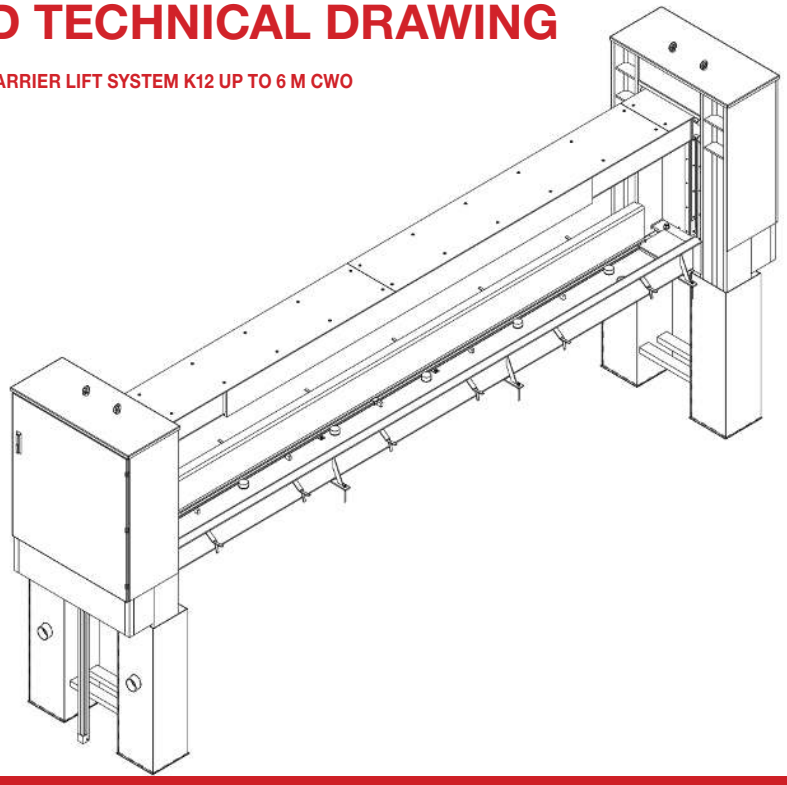
BARRIER LIFT SYSTEM K12 UP TO 6 M CWO

Design	Barrier Lift System with electro-hydraulic drive in separate drive cabinet, guide stands, ground sleeves, horizontal crash beam and ground frame for installation in roadway.
Impact Load	1852 kJ (7.5 t @ 80 km/h) Crash test certified according to PAS 68 V/7500[N3]/80/90:0.0/31.0 and DOS SD-STD-02.01 Rev. A 03/2003 K12/L3
Clear Width of Opening (CWO)	3.0 m, 3.5 m, 4.0 m, 4.5 m, 5.0 m, 5.5m and 6.0 m
Blocking Height	1100 mm
Crash Beam	Rectangular hollow section profile RHS 450x250 with cover plate
Guide Stands	H x W x D: 2913 mm x 1293 mm x 571 mm (height without hydraulic cylinder), height above foundation: 1713 mm
Ground Frame	L x W x H: (CWO + 24 mm) x 880 mm x 310 mm (width without anchors, height without 150 mm high drainage sleeves) Total width approx. 1013 mm
Ground Sleeves	H x W x D: 1354 mm x 1370 mm x 400 mm (height without fastening bolts, depth without sleeve for hollow pipe connection)
Drive Cabinet	H x W x D: 1400 mm x 1200 mm x 400 mm incl. 200 mm high base (standard/RO1)
Emergency Operation	Via hand pump (standard) Accumulator incl. Rechargeable batteries for 1 movement (RO1) (optional)
Operating Speed	Raising: approx. 0.17 m/sec Lowering: approx. 0.20 m/sec

Wheel Load	100 kN according to SLW60 – DIN 1072
Drive	4.0 kW, 400 V (three-phase), 50 Hz
Hydraulic Fluid	Mineral oil HLP 22 or biodegradable oil Plantohyd 22 S – NWG, water hazard class 1
Control Unit	PLC in control box installed in drive cabinet (standard), PLC in separate control box for wall mounting inside a building (optional), control voltage 24 V
Weight	Approx. 1230 – 1610 kg (crash beam) Approx. 3150 kg (guide stands and ground sleeves) Approx. 430 – 650 kg (ground frame) Approx. 280 – 400 kg (drive cabinet)
Colour (Standard)	Crash beam RAL 9010 pure white Cover plate crash beam RAL 9010 pure white Guide stands RAL 9010 pure white Ground frame RAL 9010 pure white Ground sleeves primed (dark grey) Drive cabinet RAL 7035 light grey
Colour (Optional)	Crash beam Striped RAL 3000 flame red / RAL 9010 pure white RAL 3000 flame red or other RAL colours or DB colours Cover plate crash beam other RAL colours or DB colours Guide posts other RAL colours or DB colours Ground frame other RAL colours or DB colours
Temperature Range	-20°C – 60°C

STANDARD TECHNICAL DRAWING

BARRIER LIFT SYSTEM K12 UP TO 6 M CWO



STANDARD TECHNICAL SPECIFICATION

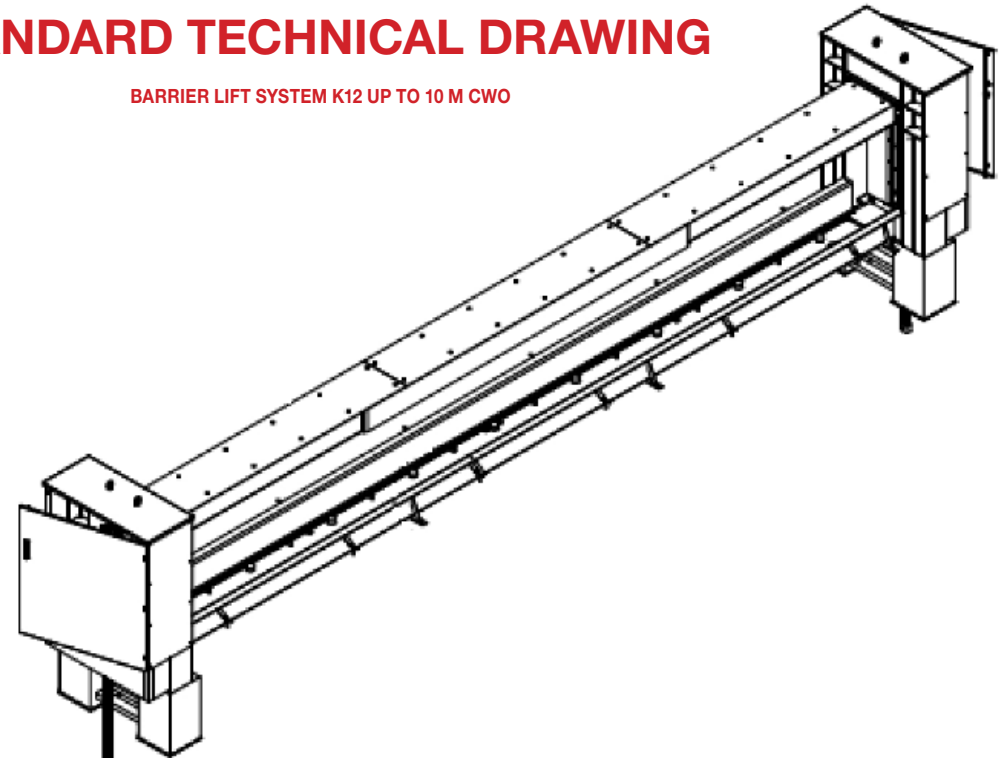
BARRIER LIFT SYSTEM K12 UP TO 10 M CWO

Design	Barrier Lift System with electro-hydraulic drive in separate drive cabinet, guide stands, ground sleeves, horizontal crash beam and ground frame for installation in roadway.
Impact Load	1699 kJ (6.8 t @ 50 mph) Crash test certified according to DOD SD-STD-02.01 Rev. A 03/2003 K12/L2
Clear Width of Opening (CWO)	6.0 m, 7.0 m, 8.0 m, 9.0 m and 10.0 m
Blocking Height	1100 mm
Crash Beam	Rectangular hollow section profile RHS 450x250 with cover plate
Guide Stands	H x W x D: 2213 mm x 1293 mm x 571 mm (height without hydraulic cylinder), height above foundation: 1713 mm
Ground Frame	L x W x H: (CWO + 24 mm) x 880 mm x 310 mm (width without anchors, height without 150 mm high drainage sleeves) Total width approx. 1013 mm
Ground Sleeves	H x W x D: 654 mm x 1370 mm x 400 mm (height without fastening bolts)
Drive Cabinet	H x W x D: 1400 mm x 1200 mm x 400 mm incl. 200 mm high base (standard/RO1)
Emergency Operation	Via hand pump (standard) Accumulator incl. Rechargeable batteries for one movement (RO1) (optional)
Operating Speed	Raising: approx. 0.17 m/sec Lowering: approx. 0.20 m/sec

Wheel Load	100 kN according to SLW60 – DIN 1072
Drive	4.0 kW, 400 V (three-phase), 50 Hz
Hydraulic Fluid	Mineral oil HLP 22 or biodegradable oil Plantohyd 22 S – NWG, water hazard class 1
Control Unit	PLC in control box installed in drive cabinet (standard), PLC in separate control box for wall mounting inside a building (optional), control voltage 24 V
Supply Voltage	400 V (3Ph + N + PE), 50 Hz
Weight	Approx. 1610 – 2130 kg (crash beam) Approx. 2560 kg (guide stands and ground sleeves) Approx. 650 – 960 kg (ground frame) Approx. 280 – 400 kg (drive cabinet)
Colour (Standard)	Crash beam RAL 9010 pure white Cover plate crash beam RAL 9010 pure white Guide stands RAL 9010 pure white Ground frame RAL 9010 pure white Ground sleeves primed (dark grey) Drive cabinet RAL 7035 light grey
Colour (Optional)	Crash beam Striped RAL 3000 flame red / RAL 9010 pure white RAL 3000 flame red or other RAL colours or DB colours Cover plate crash beam other RAL colours or DB colours Guide posts other RAL colours or DB colours Ground frame other RAL colours or DB colours
Temperature Range	-20°C – 60°C

STANDARD TECHNICAL DRAWING

BARRIER LIFT SYSTEM K12 UP TO 10 M CWO



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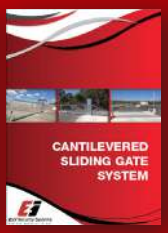
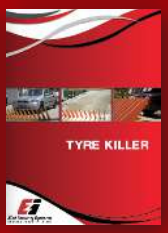
OUR PRODUCTS AVAILABLE

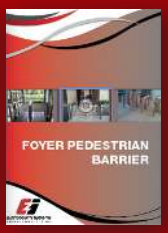
CRASH RATED RANGE

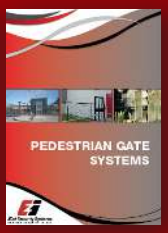
TRADITIONAL RANGE





PEDESTRIAN CONTROL RANGE





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