

TECHNICAL DATA

CERTIFIED TO



M30 BOLLARD - FIXED

Design	Blocking bollard(s) with base supports for shallow mount installation. Bollard system can be adapted on site for corner applications.
Impact Load	612kJ (6.8 t @30 mph) Vehicle Impact Simulation M30/P1 (triple unit)
Blocking Element	Diameter: 355mm with welded on steel top plate, optional: screwed on steel top plate, in galvanised finish or coated in colour of blocking element
Wall Thickness	30mm
Blocking Height	1100mm (bollard M30-1100) or 1000mm (bollard M30-1000)
Total Height	1552mm (bollard M30-1100) or 1452mm (bollard M30-1000)
Base support construction	Total WxD = 900 x 1555mm
Design	Blocking bollard(s) with base supports for shallow mount installation. Bollard system can be adapted on-site for corner applications
Impact Load	612kJ (6.8t @ 30mph) Vehicle Impact Simulation M30/P1 (triple unit)
Blocking Element	Diameter: 355mm with welded on steel top plate, optional: screwed on steel top plate, in galvanised finish or coated in colour of blocking element
Wall Thickness	30mm
Blocking Height	1100mm (bollard M30-1100) or 1000mm (bollard M30-1000)
Total Height	1552mm (bollard M30-1100) or 1452mm (bollard M30-1000)
Base support construction	Total WxD = 900 x 1555mm
Foundation Size	4500 x 1750 x 400mm (triple unit)
Foundation Top Edge	100mm below finished floor level
Weight	Approx. 620kg (bollard M30-1100) or approx. 590kg (bollard M30-1000)
Options	Bollard top lighting, Ufo-shape, red, white or yellow stainless steel sleeve with screwed on or welded on stainless steel top plate
Colour (Standard)	RAL 6005 moss green, RAL 7016 anthracite grey RAL 7030 stone grey RAL 7035 light grey or RAL 9010 pure white
Colour (Optional)	Other RAL colours or DB colours

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M30 BOLLARD - MOVABLE (HYDRAULIC)

Design	High security bollard in compact style with integrated hydraulic aggregate and separate control unit for up to five bollard units.												
Impact Load	667kJ (7.5 t @ 48km/h) Crash test certified according to PAS 68:2013 V/7500[N2]/48/90:0.0/0.0 IWA 14-1:2013 V/7200[N2A]/48/90:0.4												
Blocking Element	Diameter: 355mm, 16mm wall thickness with screwed on top plate												
Blocking Height	1000mm above finished floor level												
Emergency Operation	Bollard remains in the raised position during power failure and can be lowered manually Accumulator and rechargeable battery pack for one raising movement (RO1) with charged accumulator (optional)												
Operating Times	Raising: approx. 5-6 seconds - Lowering: approx. 3-4 seconds Emergency fast operation (EFO): approx. 2-3 seconds raising (with optional accumulator)												
Wheel Load	100kN according to SLW60 – DIN 1072												
Drive	1.4kW nominal power, 400 Volt AC, 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 for wall installation inside a building, control voltage 24V max. Distance between bollard Control unit: 50m												
Supply voltage	230/400V AC, 50Hz												
Lighting (Optional)	Bollard top lighting, Ufo-shape, LED red, white or yellow												
Tamper resistance	Reed contact for cover plate												
Control Box	<p>Control unit configuration Standard:</p> <ul style="list-style-type: none"> · HxWxD = 400x400x200mm, IP 66 (for single bollard unit) · HxWxD = 600x400x200mm, IP 66 (for double up to penta bollard unit) <p>Control unit configuration Plus:</p> <ul style="list-style-type: none"> · HxWxD = 400x400x200mm, IP 66 (for single bollard unit) · HxWxD = 600x400x200mm, IP 66 (for double up to penta bollard unit) <p>Control unit configuration Vario:</p> <ul style="list-style-type: none"> · HxWxD = 600x400x200mm, IP 66 (for single and double bollard unit) · HxWxD = 600x600x200mm, IP 66 (for triple up to penta bollard unit) <p>Control unit configuration Vario RO1:</p> <ul style="list-style-type: none"> · HxWxD = 800x400x300mm, IP 66 (for single up to triple bollard unit) · HxWxD = 800x600x200mm, IP 66 (for quadruple and penta bollard unit) 												
Control Cabinet (Optional)	Control box installed in outdoor control cabinet complete with rain cover, hygostat, thermostat, heater and outdoor coating · HxWxD = 1000x800x400mm + 200mm socket (for control unit configuration Vario) · HxWxD = 1200x1200x400mm + 200mm socket (for control unit configuration Vario RO1)												
Weight	Approx. 870 kg incl. Metal housing												
Colour (Standard)	<table border="0"> <tr> <td>Blocking element</td> <td>RAL 6005, 7016, 7030, 7035 or 9010</td> </tr> <tr> <td>Bollard top plate</td> <td>galvanised finish</td> </tr> <tr> <td>Cover plate</td> <td>galvanised finish</td> </tr> <tr> <td>Metal housing</td> <td>galvanised finish</td> </tr> <tr> <td>Metal housing frame</td> <td>galvanised finish</td> </tr> <tr> <td>Installation frame</td> <td>galvanised finish</td> </tr> </table>	Blocking element	RAL 6005, 7016, 7030, 7035 or 9010	Bollard top plate	galvanised finish	Cover plate	galvanised finish	Metal housing	galvanised finish	Metal housing frame	galvanised finish	Installation frame	galvanised finish
Blocking element	RAL 6005, 7016, 7030, 7035 or 9010												
Bollard top plate	galvanised finish												
Cover plate	galvanised finish												
Metal housing	galvanised finish												
Metal housing frame	galvanised finish												
Installation frame	galvanised finish												
Colour (Optional)	Blocking element other RAL colour Bollard top plate in RAL colour of blocking element Cover plate in RAL colour of blocking element												
Optional Finish	Blocking element with stainless steel sleeve and stainless steel top plate												
Temperature Range	-20°C – 65°C Optional: Heating for up to -30°C												

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