

Resource Guide

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Site Furniture X-Last Bollards



Large standard range • Custom work is welcomed



www.x-last.com

RIGID RECOVERABLE BOLLARDS

AFTER SEVERAL YEARS OF RESEARCH SABACAUCHO & MOODIE INTRODUCE A NEW CONCEPT IN BOLLARDS.

THE X-LAST*BOLLARD. The Safest And Most Durable Bollard. Our vision is to make our streets safer with X-LAST*BOLLARDS while providing a modern, attractive design and reducing maintenance and replacement costs.

Made of a new polymer providing a safer than ridge metal or concrete bollards.

X-Last Bollard is strong enough to prevent vehicles entering prohibited areas but their flexibility makes them virtually unbreakable. Most importantly they recover to their original position and form after being knocked down!

X-LAST*BOLLARDS are safer than rigid metal bollards as rigid bollards "on impact", can cause serious harm to people and serious damage to vehicles.

X-Last Bollards -

- cannot be broken or dented, are not affected by rust and are UV-resistant.
- available in many attractive designs and can be customize with LookArt® options to suit your particular street-scape.
- guaranteed to last a lifetime.

DESIGN

We offer a wide range of designs and can customize the bollards with your city's coat of arms or logo. We can even produce your uniquely designed bollard.

FASTENINGS

Removable form work base or directly bolted to the ground with fasteners or adhesive.

COLOURS

All colours from the RAL spectrum. Reflective or metallic tapes are available,



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Bikeway - Divider in action



Bikeway - illuminated

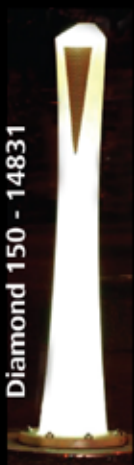


Bikeway - LumArt

NEW FOR MAY 2014 - LUMART RANGE EXPANDS TO INCLUDE ALL D100 BOLLARDS

LUMART

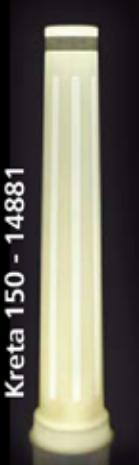
- Safe, illuminated, allways on guard
- "tested to recover in excess of 200 times"
- Light is concealed in the base



Diamond 150 - 14831



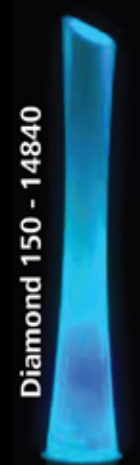
Class 150 - 14921



Kreta 150 - 14881



Gola 150 - 14811



Diamond 150 - 14840



Base 150
LUMART



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	<p>NEW FOR 2014 - THE MANUAL RETRACTABLE BOLLARD</p> <p>X-LAST®BOLLARDS are proud to bring you their latest development, the Manual Retractable Bollard.</p> <p>The design provides auto-eject functionality powered by a gas strut. To lower the bollard simply push it back into position using your body weight and it will automatically lock into place.</p> <p>Key lockable for security purposes. The bollard is manufactured from the unique polymers that provide a rigid design which is fully recoverable if impact does occur.</p>	 <p>D80 - 137080</p>  <p>D100 - 137100</p>  <p>D150 - 137110</p>	<p>MAKE YOUR BOLLARD FULLY REMOVABLE</p> <p>X-LAST®BOLLARDS have been designed with ease of installation as a key consideration.</p> <p>Each bollard design can be mounted in one of 3 ways:</p> <ul style="list-style-type: none"> • In-ground Mount • Baseplate Mount • Removable Base Mount <p>To have a key lockable and removable bollard simply select the base mount suitable for the diameter of the chosen bollard.</p>
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EMERGENCY VEHICLE ACCESS

X-LAST®BOLLARDS do not have to be removed to allow access for emergency vehicles.

Fire trucks, ambulances and other emergency vehicles can drive straight over the X-LAST®BOLLARDS and there is no need to replace them after being driven over. They will revert to their original form and shape!

This feature reduces the respond time of the emergency teams to gain access to an emergency and eliminates all costs to replace or repair the bollards!



X-LAST®BOLLARDS THE GREEN OPTION

A life cycle analysis of X-LAST®BOLLARDS compared to conventional bollards by the European Union funded INASMET TECNALIA has shown that X-LAST®BOLLARDS have 50% less environmental impact than conventional bollards.

TECHNOLOGY

Sabacauchio invests in R&D to develop innovative solutions. Since 1979 we have solved problems relating to flexibility, strength, abrasion and longevity, developing products with superior tear, breakage, abrasion and impact resistance as well as resistance to ageing, high temperatures, hydrocarbons and other factors reducing the life cycle of products. As a result of our R&D, we have developed an exclusive polymer X-LAST® a polymer composite which includes reinforcing nano particles, giving X-LAST®BOLLARDS their unique properties.

ACCESSIBILITY

X-LAST®BOLLARDS comply with the accessibility requirements for public roads and places. The X-Last design and colour options increase their visibility. Braille and tactile signage can be incorporated.

TECHNOLOGY

X-LAST®BOLLARDS save lives. The Applied Research Center for Automotive Technology, IDIADA, has conducted impact tests with X-LAST®BOLLARDS and rigid metal bollards.



Tests were conducted using the HIC (Head Injury Criteria) to evaluate injuries to the head after impact at a speed of 40 km/h, which is the average speed in congested city centers. The maximum international limit for the HIC value is 1000. Exceeding this value would cause irreversible head injuries. The HIC value obtained after impact with a metal bollard was 4600. This is nearly 5 times above the international limit.

The same test with X-LAST®BOLLARDS showed a result of 460! This is less than half the international limit and 10 times less than the result shown for metal bollards!

CERTIFICATION

X-Last® bollards officially have the CE mark number: 0370-CPD-1395. X-Last® have been certified as the only bollards in the world that apply UNE-EN 12899 norm ("Fixed, vertical road traffic sign") in its Part 3 ("Delineator posts and auto-reflectors")

To be certified with CE mark for UNE-EN 12899 it has to be issued by an international authorised company. Only overcoming tests and a demanding audit, CE mark is awarded. Official number of certification has to appear in CE mark. We are pleased to inform you that all over the world, Sabacauchio is the unique manufacturer company with the CE mark for fixed, vertical road signs in its part of delineator posts and auto reflectors with the following number of certificate: 0370-CPD-1395.

