

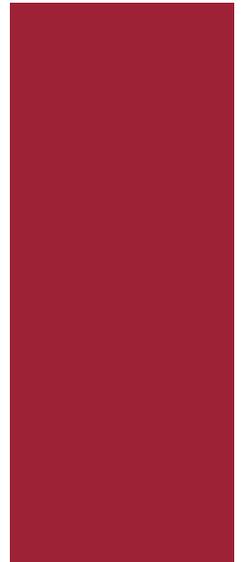


Marshalls

Landscape Protection

Active Travel Solutions

helping you commute safely



About Marshalls

Marshalls operate in many realms of the hard landscaping industry.

From back gardens to train stations, we've been **Creating Better Spaces** for over 130 years.

In the public sector and commercial market, Marshalls work with a diverse commercial customer base, including local authorities, commercial architects, specifiers, contractors and house builders, by offering them unrivalled technical expertise, manufacturing capability and an enviable product range.

Operating in **the most ethical way** is a commitment we make to our people and communities.

Landscape Protection

Marshalls Landscape Protection offer an innovative, design-led range of protective and non-protective street furniture solutions, designed to blend seamlessly into urban landscape spaces.

With an extensive collection of everything from bollards, planters, seating and more, the Landscape Protection portfolio presents the opportunity to develop urban areas and promote safety of shared public spaces, **keeping people safe...not scared®**.



Active travelling made safe and easy

From segregation solutions, traffic bollards and traffic calming systems to cycle stands and storage, Marshalls Landscape Protection can help to transform towns and cities into safe environments for people to enjoy.

Many cycling-related developments, such as cycle lane segregation, junction modifications and road quality improvements bring benefits to the longevity of a scheme and also create conditions which can promote a reduction in road casualties and air and noise pollution.

By offering a broad range of Active Travel solutions we enable people to travel safely and encourage a more active approach to commuting.

Installing infrastructure and products that support these methods of travel will not only have a positive impact on health and wellbeing, but will also reduce emissions and be a transformative step towards a more sustainable future for generations to come.

Our approach to sustainability

We help to build safe, sustainable and beautiful spaces for everyone.

Our approach to sustainability is underpinned by our belief in doing the hard work in areas that are material to our business and our stakeholders, by working with leading organisations and by getting external validation.



ISO50001, which we achieved and maintained since 2015, enables organisations to establish the systems and processes necessary to continually improve energy performance

SBTi targets to **reduce Scope 1 and 2 greenhouse gas emissions** 40% per tonne of production by 2030



100% of our employees are paid at, or above, **the Living Wage Foundation level**



All our production plants now use **100% renewable energy**

We achieved, and have since maintained, **ISO14001 Environmental Management** since 2000. The intentions of **ISO14001** is to achieve a balance between the environment, society and the economy is considered essential to meet the needs of the present without compromising the ability of future generations.

This international standard provides organisations with a framework to **protect the environment** and respond to changing environmental conditions in balance with socio-economic needs.



We launched the highly regarded **Power of Logistics** programme to tackle Modern Slavery and led the sector in tackling the issue in the UK

We have eradicated child labour from Tier 1 of our Indian Sandstone supply chain – this is really important to us and our commitment to respecting **human rights** is central to our business



All our Marshalls branded Landscape Protection and Street Furniture products are **made in mainland Britain**



We are proud to have been **FSC®-certified** since 2017. All Marshalls manufactured RhinoGuard® products that include wood elements are produced using only FSC®-certified (FSC-C133609) hardwood and softwood timber from **well managed forests** and other controlled sources.



100% of concrete and natural stone products are **fully recyclable**

We're proud to pay our fair share of tax – we've kept the **Fair Tax Mark** since 2015



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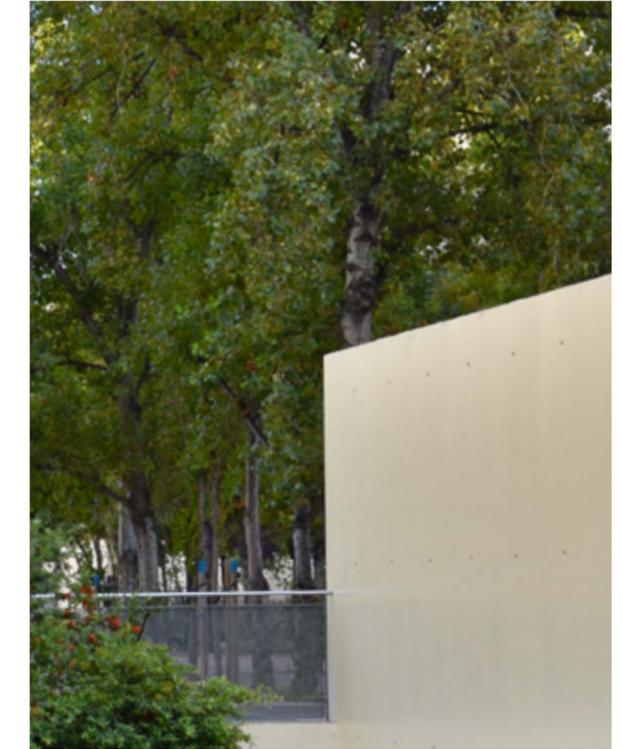
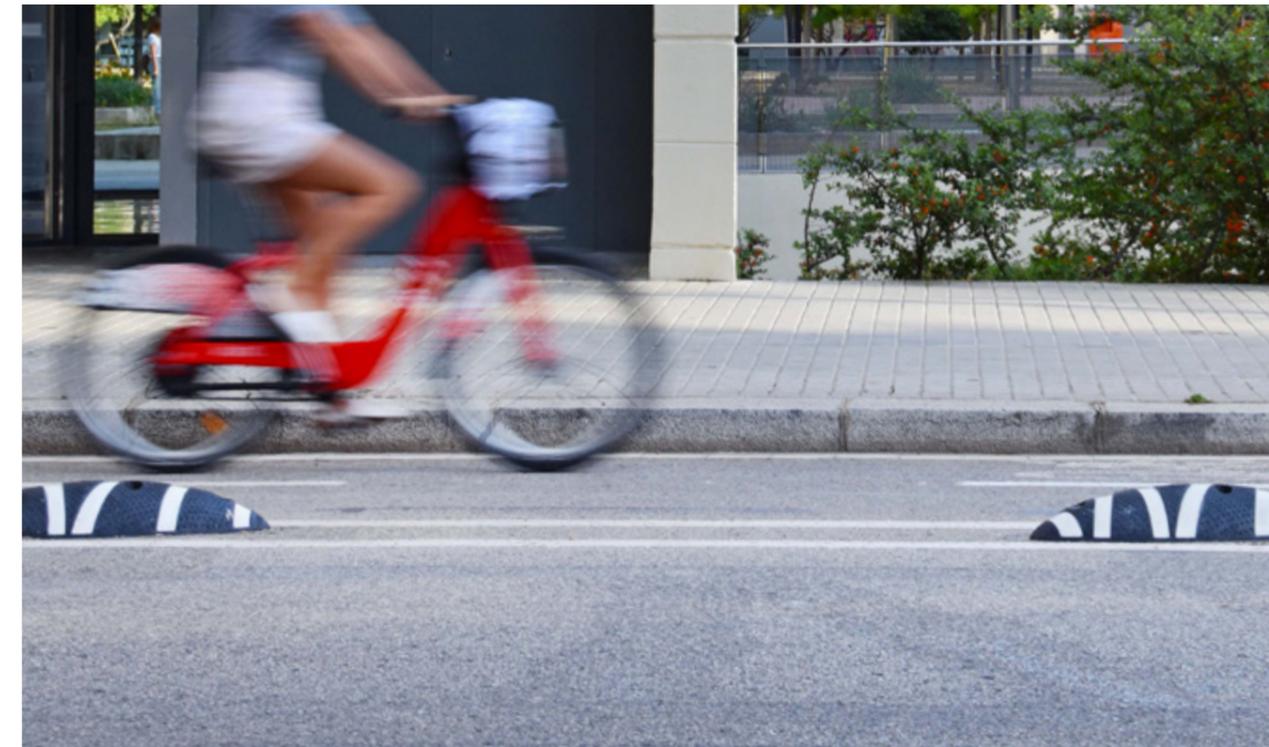
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We believe in the importance of creating **safe** and **inviting environments**.



**Cycle
Segregation
Solutions**



Why choose **cycling**?

Cycling plays an important role in protecting our environment and improving general health and wellbeing, providing the public with physical activity and thereby saving funds from public health budgets.

Encouraging more people to cycle is being seen as a vital part of any local authority plan to:

- Tackle congestion on public transport systems
- Improve air quality in urban areas and reduce carbon footprint
- Promote physical activity, health and wellbeing
- Improve accessibility for all, minimising time, distance and effort

Concrete Cycle Segregation Unit

Manufactured in Britain, our versatile concrete kerb unit is designed to act as a demarcation tool to safely segregate cyclists from trafficked areas.

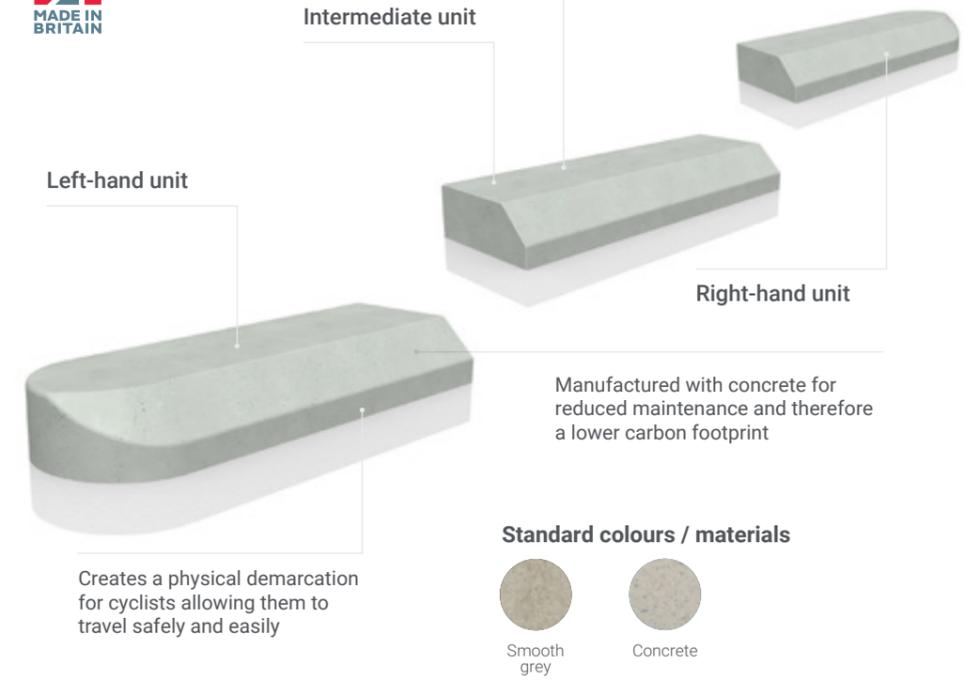
Its 45 degree splayed kerb profile on the cycleway side provides a soft transition between the carriageway and the cycle lane. This means that cyclists of all abilities can use the cycleway without the fear of colliding with a steep kerb or catching a pedal.

The outside kerb offers a bullnose profile designed to stop vehicles mounting the unit and potentially endangering the cyclist.

Designed to be installed in new or existing schemes where the highway requires a redesign, the Cycle Segregation Unit ensures that cyclists feel safe and at ease when commuting, and consequently encouraging an increase in this mode of transport.

Standards / Specifications

MEETS THE REQUIREMENTS OF
BS EN 1340



	Left-hand and right-hand unit	Intermediate unit
Overall height (mm)	255	255
Height above ground (mm)	125	125
Length (mm)	1000	1000
Width (mm)	300	300
Weight (kg)	171	179
Radius end (mm)	150	N/A
Fixing method	Root fixed	Root fixed
Root depth (mm)	130	130
Carbon footprint (CO ₂ /kg)	20	21

Please note that carbon footprint figures are estimates based on full 'cradle to grave' footprints for similar products, calculated by the Carbon Trust.

Swing Wand Bollards

Used as a protective barrier to prevent vehicles on the road from invading the cycle lane, the Swing Wand bollards are highly visible and can be used to clearly indicate where a cycle lane is to other users or to highlight traffic islands and junctions.

The elements are surface mounted, requiring anchorage only, making them quick and easy to install with limited disruption.

The flexible and lightweight design means that vehicle damage is avoided on impact and the initial shape is retained, limiting the requirement of replacing in the event of a crash.

Key features



RECYCLABLE MATERIAL



EASY TO CLEAN SURFACE



INCLUDES REFLECTIVE PANELS

Standards / Specifications

MEETS THE REQUIREMENTS OF BS EN 13422

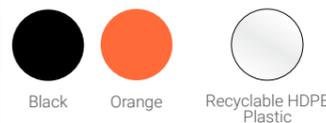


Black Swing Wand 1000 Bollard

Orange Swing Wand 750 Bollard

Allows body to reform after impact
Flexible hinge point
Manufactured with recycled plastic

Standard colours / materials



	Black Swing Wand 1000 Bollard	Orange Swing Wand 750 Bollard
Overall height (mm)	1055	805
Diameter (mm)	103	103
Fixing method	Root fixed into concrete foundation	
Weight (kg)	2.32	2.1

Impact Recovery Bollard

The Impact Recovery bollard is available in three heights and has been designed to provide high visibility separation between cycle and traffic lanes whilst allowing semi-segregated protection that cyclists can easily exit in an emergency.

The reflex material will withstand multiple impacts and return to an upright position without damage, thereby saving on expensive replacement costs.

The bollards can also be combined with traffic calming islands should these be required. Please get in touch for more information.

Key features



EASY TO CLEAN SURFACE



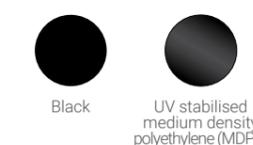
INCLUDES REFLECTIVE PANELS

Standards / Specifications

MEETS THE REQUIREMENTS OF BS EN 12767:2007 70 NE4



Standard colours / materials



Overall height (mm)	1030	1000	800
Max. width (mm)	110		
Max. depth (mm)	71		
Base width x depth (mm)	320 x 320		
Fixing method	Shield anchor	Asphalt anchor	Concrete in anchor
Weight (kg)	2.5	2.5	2.3

Zicla® Zebra® Zero®

The Zicla® Zebra® Zero® is an effective cycle segregation product which is used as a protective barrier to prevent vehicles on the road from invading the cycle lane.

The solution assists in making any vehicle in contact rebound and deflect back into the highway, ensuring the safety of cyclists and pedestrians.

The elements are surface mounted with 4 anchorage points, making them quick and easy to install, with limited disruption.

The segregation system is completely modular allowing the construction of multiple configurations.

Key features



RECYCLABLE MATERIAL



INCLUDES REFLECTIVE PANELS



Standard colours / materials



	Zicla® Zebra® 13 Zero	Zicla® Zebra® 9 Zero
Overall height (mm)	130	90
Max. length (mm)	820	775
Max. width (mm)	210	164
Fixing method	Surface mounted with 4 anchorage points	
Weight (kg)	6.1	3.4

Zicla® Zipper® Zero®

The Zicla® Zipper® Zero system is an effective cycle segregation product which is used as a protective barrier to prevent vehicles on the road from invading the cycle lane.

The solution assists in making any vehicle in contact rebound and deflect back into the highway, ensuring the safety of cyclists and pedestrians.

The elements are surface mounted, requiring anchorage only, making them quick and easy to install with limited disruption.

The Zipper® system can also be used to create roundabouts, making transformation of urban spaces easy, with minimal effort required.

The segregation system is completely modular allowing the construction of multiple configurations.

Key features



RECYCLABLE MATERIAL



INCLUDES REFLECTIVE PANELS



Standard colours / materials



	Zicla® Zipper® Zero System A (Middle, straight module)	Zicla® Zipper® Zero System B (End, curved module)
Overall height (mm)	125	
Max. length (mm)	280	
Max. width (mm)	280	
Fixing method	Surface mounted with 4 anchorage points	Surface mounted with 3 anchorage points
Weight (kg)	3.86	2.48

Zicla® Zipper® Zebra® Planter

The Zicla® Zebra® Planter is an effective and aesthetically pleasing cycle segregation product which is used as a protective barrier to prevent vehicles on the road from invading the cycle lane.

The planter is surface mounted with 4 anchorage points, making installation quick and easy, with limited disruptions.

The planter is stackable and manufactured with 100% recycled plastic, so the environmental footprint is minimal.

Key features



RECYCLABLE MATERIAL



INCLUDES REFLECTIVE PANELS



Highly visible with 40% of the surface being retro-reflective

Stackable

Can be adapted and anchored to any road surface, with limited disruption during installation

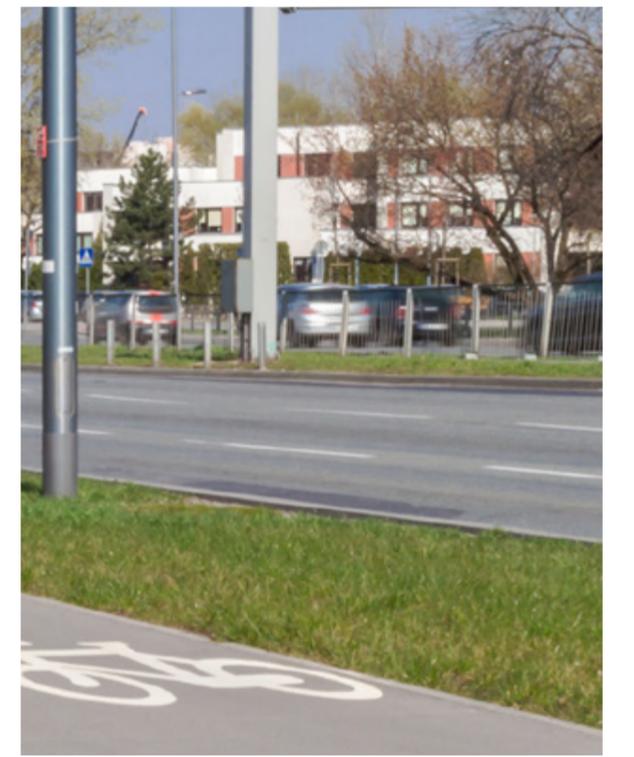
Weather resistant

Standard colours / materials

- Black
RAL 9005
- Yellow Green
RAL 6018
- Signal Yellow
RAL 1003
- Pure White
RAL 9010
- Traffic Red
RAL 3020
- Blue
RAL 5017
- 100% recycled plastic

Bespoke colours options available on request

	Zicla® Zebra® Double Planter	Zicla® Zebra® Individual Planter
Overall height (mm)	700	400
Max. length (mm)	1000	
Max. width (mm)	300	
Fixing method	Surface mounted with 4 anchorage points	
Weight (kg)	16	8



Lane Delineation Solutions

Box Planter

The Box rectangular planter has a modular design and can be arranged in a variety of layouts to form pedestrian walkways or cycle lanes. Manufactured with an environmentally friendly moulded concrete material, the Box planter comes in a range of colour options and will add an aesthetically pleasing whilst functional feature to any urban landscape.

Key features



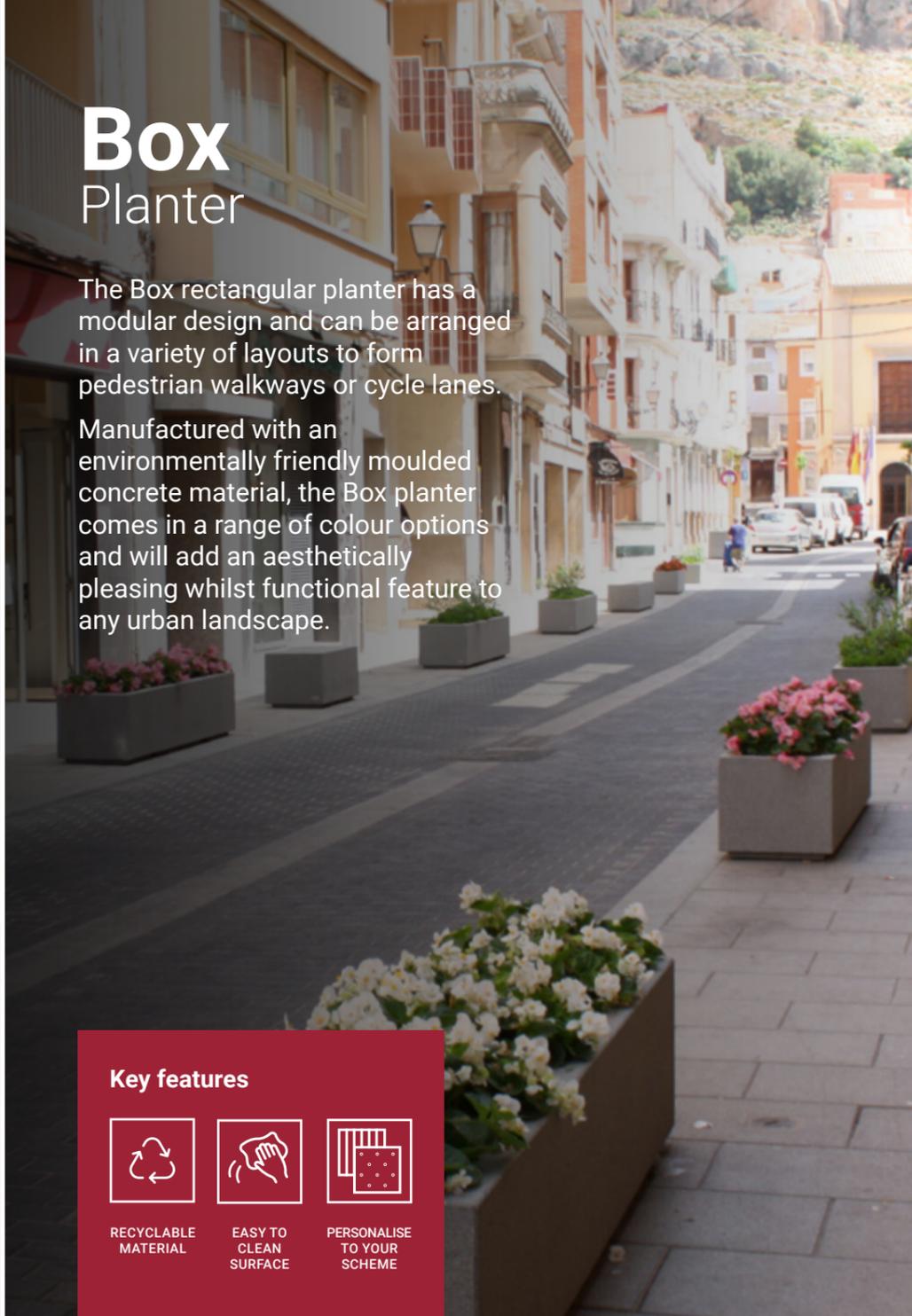
RECYCLABLE MATERIAL



EASY TO CLEAN SURFACE



PERSONALISE TO YOUR SCHEME



Environmentally sustainable material



External natural stone finish

Etched and waterproofed

Standard colours / materials



Overall height (mm)	450
Length (mm)	2000
Width (mm)	500
Capacity (L)	220
Fixing method	Surface mounted and secured with pins
Weight (kg)	534

The Box is available in other sizes. Please get in touch for more information.

Test-e Planter

Designed to be both decorative and functional, the Test-e planter is offered in two lengths and can be installed in an aligned arrangement to act as a vegetated boundary between roads and pavements, eliminating the need for bollards or pivots.

Its striking oval shape and linear diagonal grooves, with the addition of planting, enhance its surrounding environment whilst reducing the overall weight of the product.

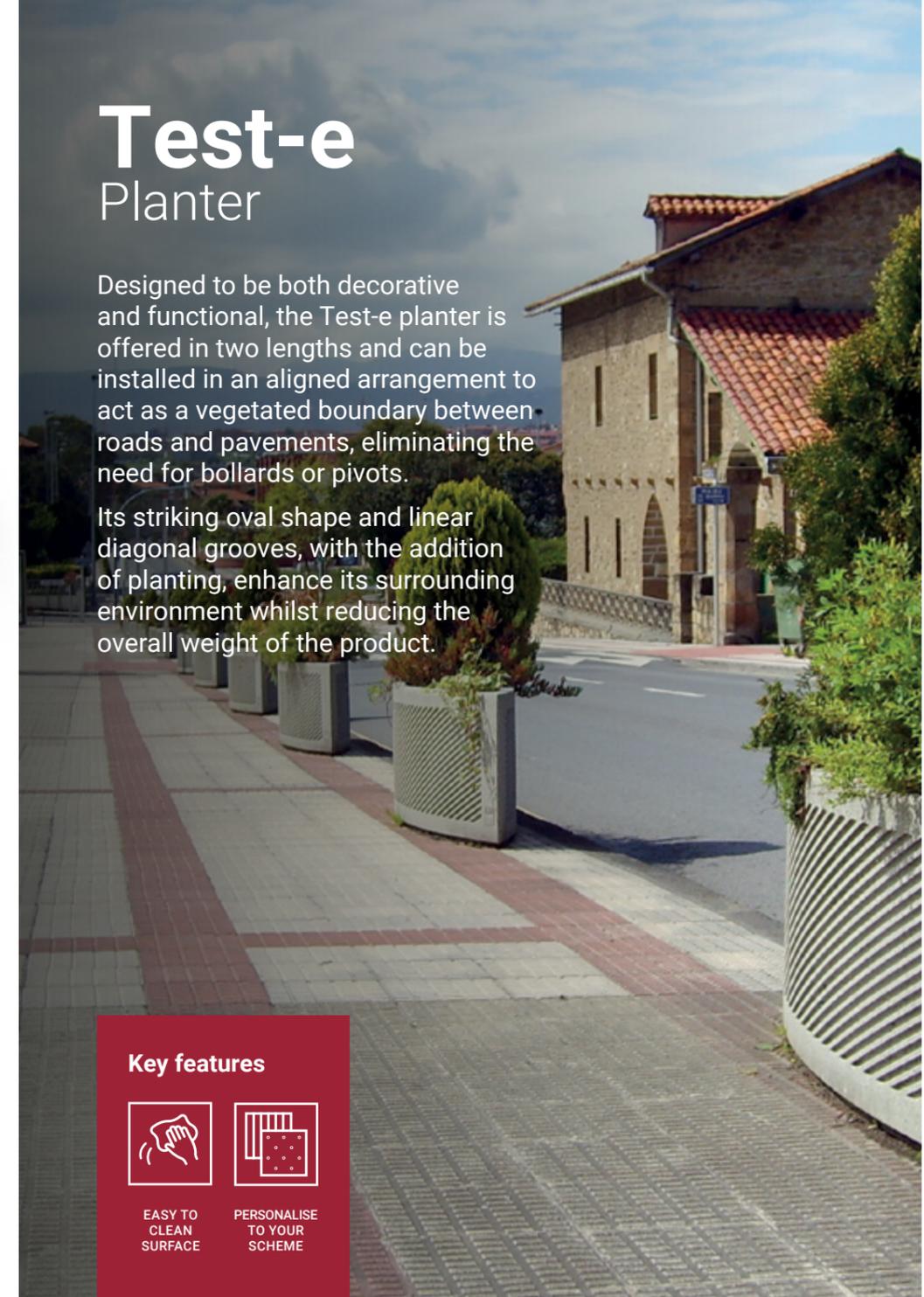
Key features



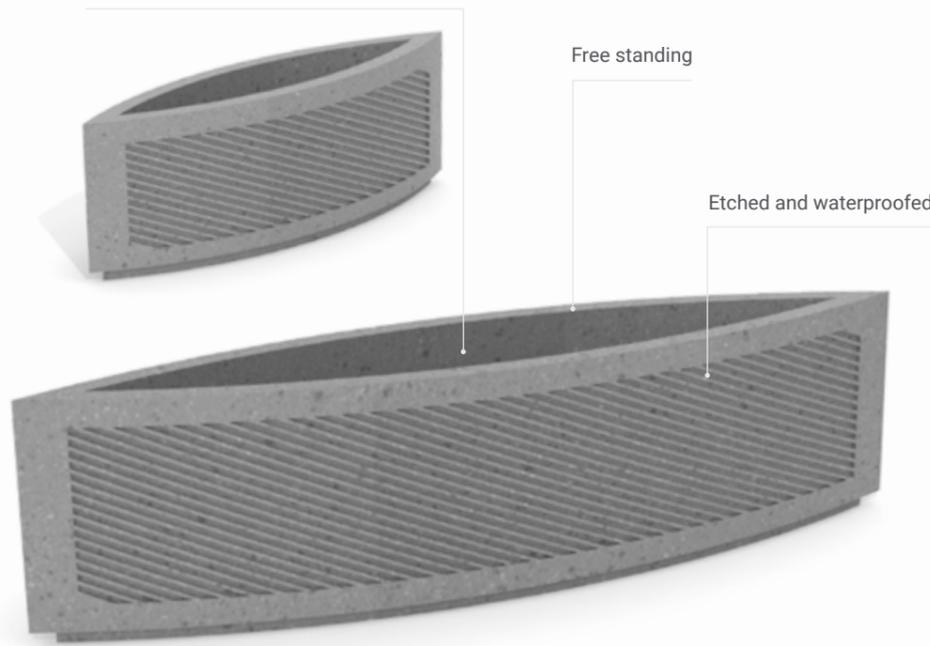
EASY TO CLEAN SURFACE



PERSONALISE TO YOUR SCHEME



Two sizes available



Standard colours / materials



	Test-e 35L	Test-e 113L
Overall height (mm)	420	530
Length (mm)	1200	2000
Width (mm)	320	400
Capacity (L)	35	113
Fixing method	Surface mounted	
Weight (kg)	174	370

Urbe Planter

The Urbe planter comes with a rigid stainless steel structure and pallet-like base, allowing for changes in location, even when laden with soil and plants. Their external panelling with wooden slats give a warm and timeless appearance.

FSC®-certified tropical wooden slat panelling

Rigid body manufactured with zinc-plated steel



Standard colours / materials



	Urbe 140L (Square)	Urbe 342L (Rectangle)
Overall height (mm)	500	
Length (mm)	700	2000
Width (mm)	700	450
Capacity (L)	140	324
Fixing method	Surface mounted	
Weight (kg)	101	152

The Urbe is available in other sizes. Please get in touch for more information.

Key features



EASY TO CLEAN SURFACE



PERSONALISE TO YOUR SCHEME

Small Giove Planter

Manufactured with a mix of concrete and fine Italian marble, the small Giove planter can be aligned to create boundaries or delineation whilst acting as an elegant alternative to steel bollards which would typically be used in this environment.

The small Giove can also be provided with protective RhinoGuard® technology, providing protection against vehicular attack.

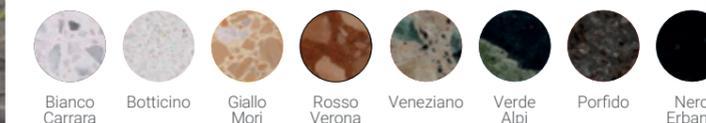
Protective RhinoGuard® technology can also be incorporated

All visible surfaces are covered with a transparent anti-decay coating and upon request an anti-graffiti coating is also available



Standard colours / materials

Precious stone



Concrete



Key features



EASY TO CLEAN SURFACE



PERSONALISE TO YOUR SCHEME

Standards / Specifications

THE ADDITION OF INTEGRATED RHINO GUARD® TECHNOLOGY ENSURES PROTECTION AGAINST VARIOUS IMPACT SPEEDS AND WEIGHTS WITH THE STRONGEST SPECIFICATION CAPABLE OF WITHSTANDING A 7.2 TONNE VEHICLE TRAVELLING AT 40MPH

Overall height (mm)	735
Diameter (mm)	1500
Capacity (L)	501
Fixing method	Surface mounted
Weight (kg)	1500

Please note that selected specification details will change for the RhinoGuard® alternative. The Giove is also available in a larger size. Please get in touch for more information.

Juanola Bench

Juanola is a moulded concrete bench used to separate pedestrian and traffic areas whilst also offering the option for people to sit and relax.

The two dimensional shape provides a contemporary and attractive alternative to bollards which would typically be used in this scenario.

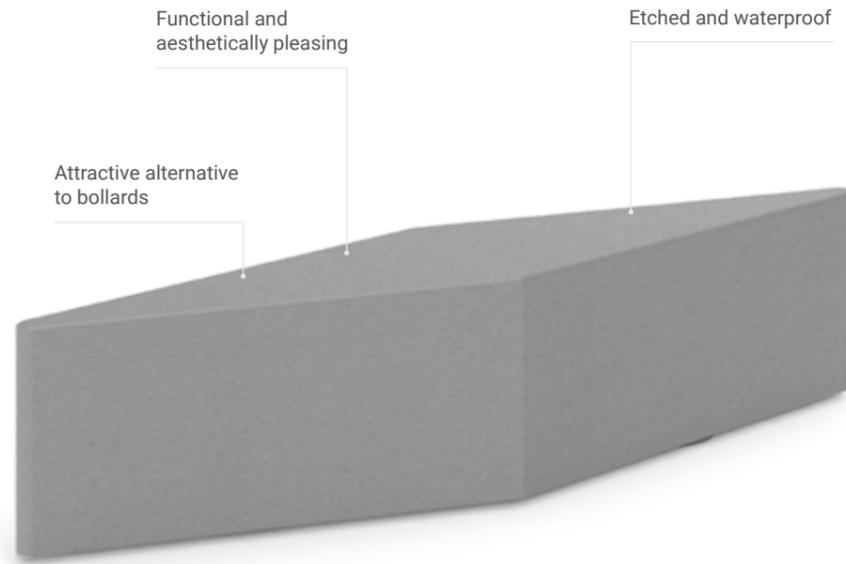
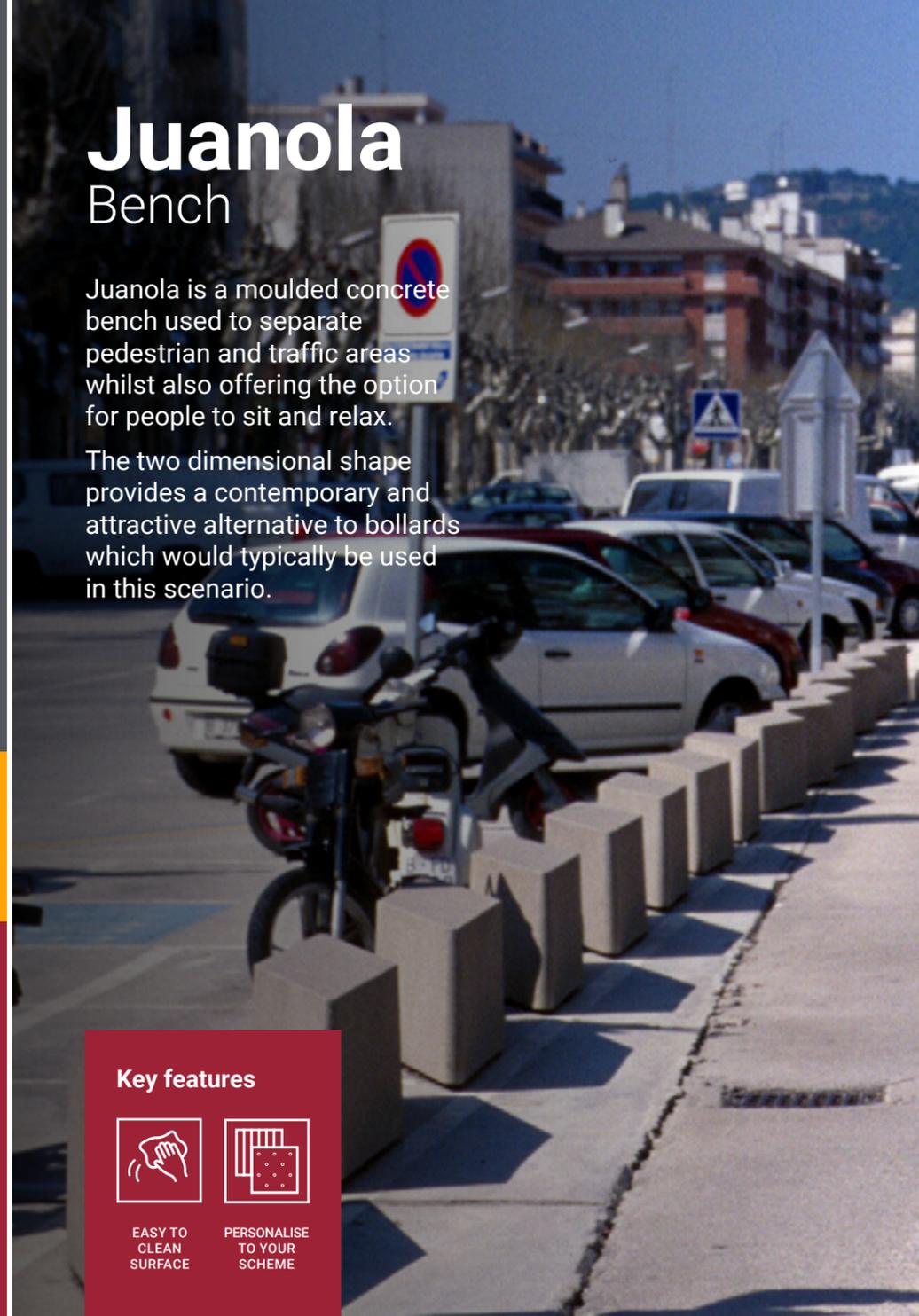
Key features



EASY TO CLEAN SURFACE



PERSONALISE TO YOUR SCHEME



Standard colours / materials

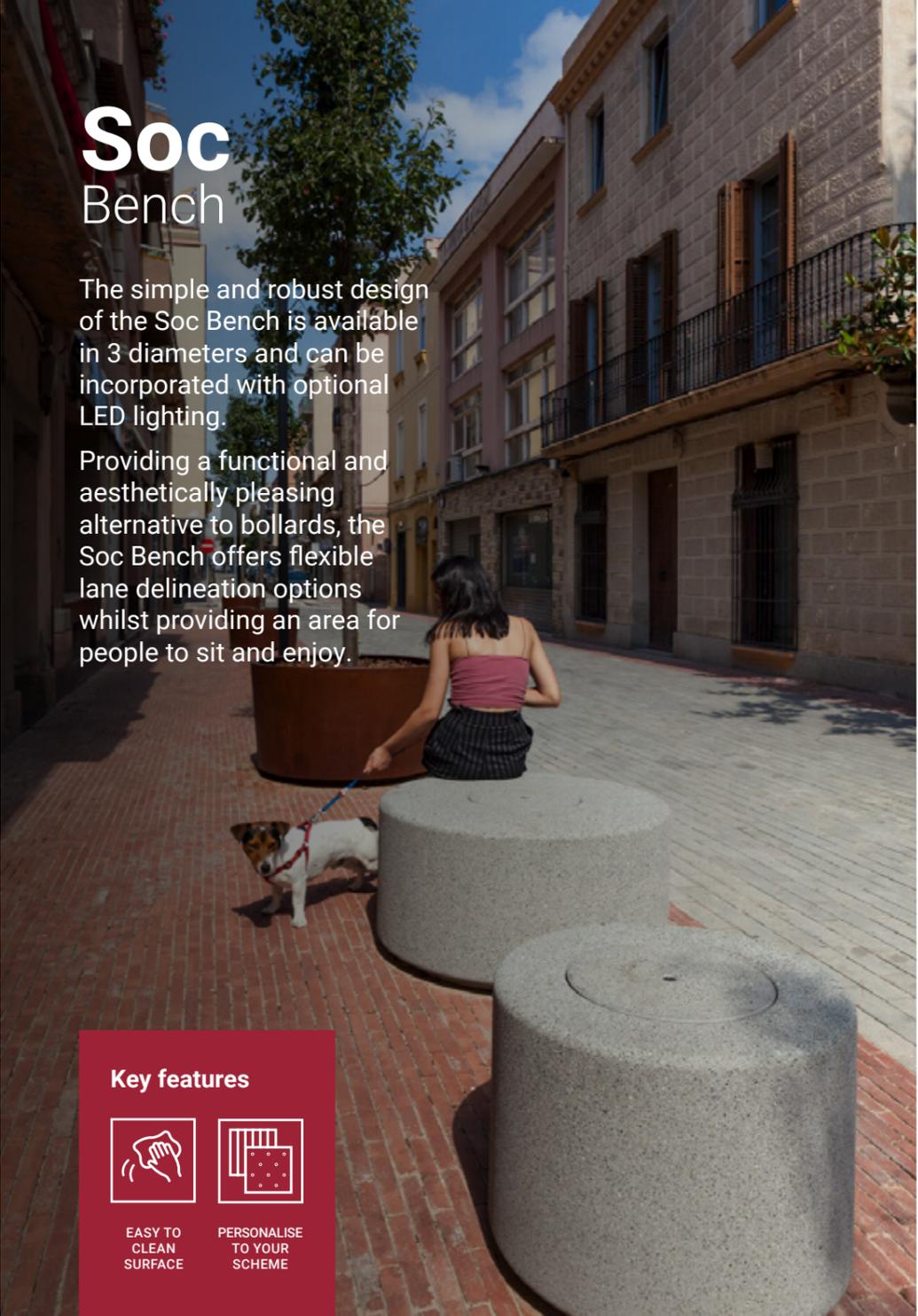


Overall height (mm)	470
Max. length (mm)	1750
Max. width (mm)	400
Fixing method	Surface mounted
Weight (kg)	370

Soc Bench

The simple and robust design of the Soc Bench is available in 3 diameters and can be incorporated with optional LED lighting.

Providing a functional and aesthetically pleasing alternative to bollards, the Soc Bench offers flexible lane delineation options whilst providing an area for people to sit and enjoy.



Available with optional LED lighting



Functional and aesthetically pleasing



Etched and waterproof

Standard colours / materials



	Soc 60	Soc 90	Soc 120
Overall height (mm)	450		
Diameter (mm)	600	900	1200
Fixing method	Surface mounted and secured with pins		
Weight (kg)	224	550	1081

Key features



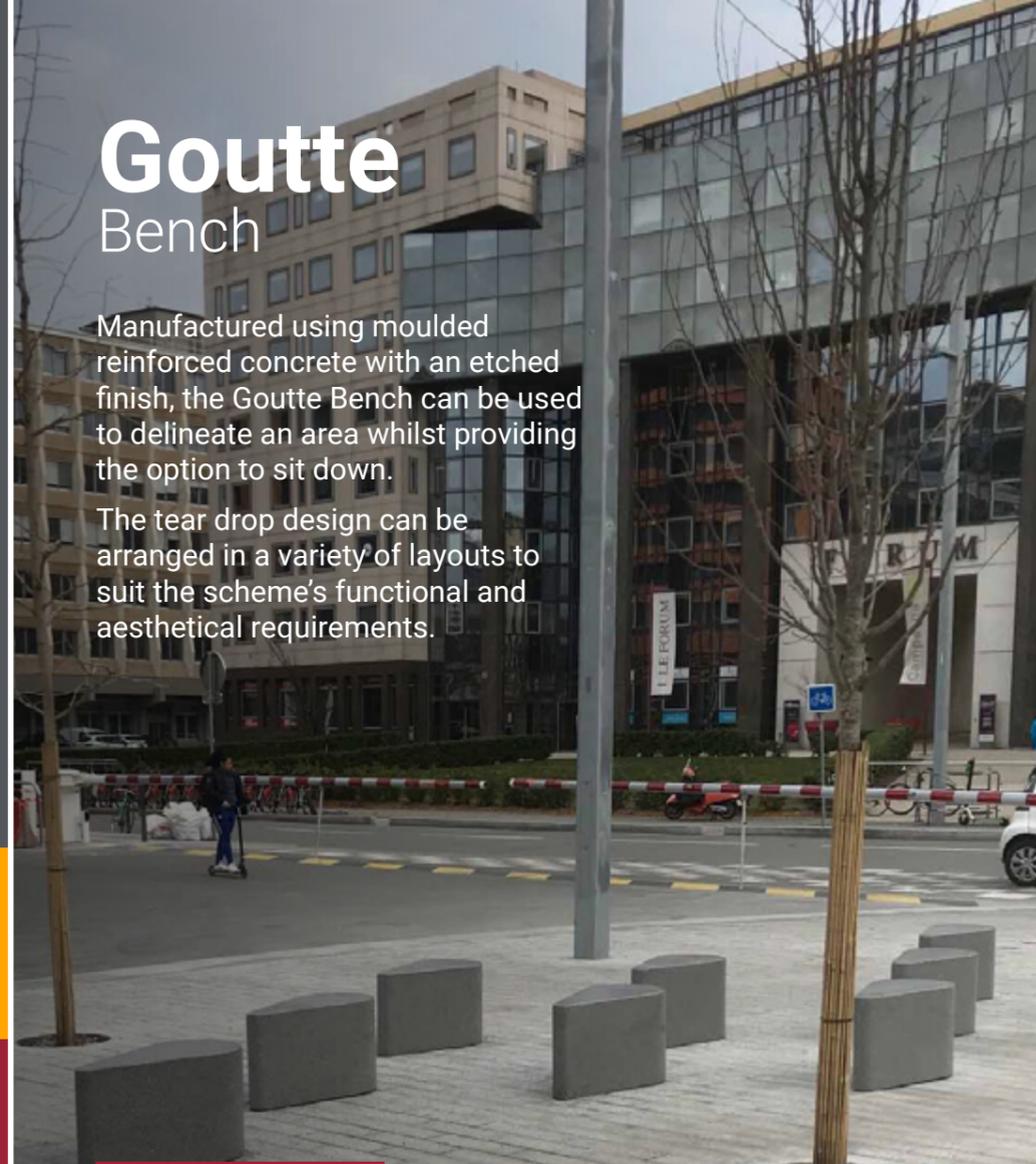
EASY TO CLEAN SURFACE



PERSONALISE TO YOUR SCHEME

Goutte Bench

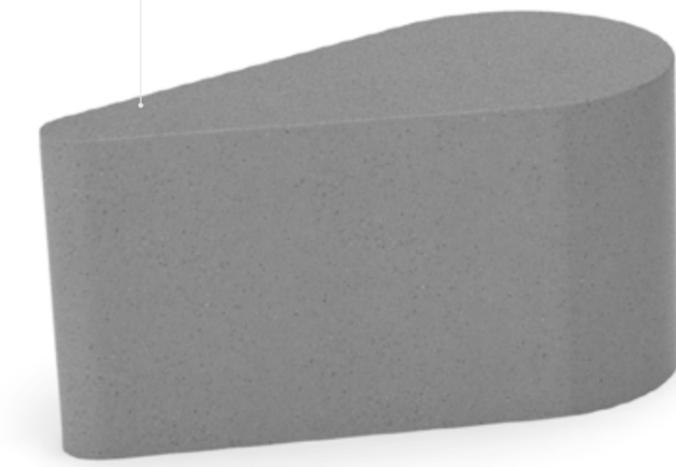
Manufactured using moulded reinforced concrete with an etched finish, the Goutte Bench can be used to delineate an area whilst providing the option to sit down. The tear drop design can be arranged in a variety of layouts to suit the scheme's functional and aesthetical requirements.



Key features

- EASY TO CLEAN SURFACE
- PERSONALISE TO YOUR SCHEME

Functional and aesthetically pleasing



Standard colours / materials

- CA Grey
- Grey
- White
- Beige
- Concrete

Overall height (mm)	450
Max. length (mm)	800
Max. width (mm)	400
Fixing method	Surface mounted and secured with pins
Weight (kg)	225

Tenplo Street Furniture

Encapsulating a linear style combined with a solid form and angular geometry, the Tenplo Street Furniture modules can be placed together to create a configuration or can be used as standalone elements. Tenplo offers huge design flexibility and a decorative whilst functional approach to segregating areas or providing lane delineation, not only acting as a barrier but also providing an area for people to sit and relax.



Key features

- EASY TO CLEAN SURFACE
- PERSONALISE TO YOUR SCHEME



Standard colours / materials

- Silver grey
- Anthracite
- Concrete

	Hollow L & R Blok	Square Blok	Cycle Blok	Hollow Bench	Planter Blok	Transition Blok
Overall height (mm)	440					
Max. length (mm)	600	600	600	1200	1200	1193
Max. width (mm)	600	600	600	600	600	799
Fixing method	Surface mounted					
Weight (kg)	258	380	340	280	258	776

Additional products are also available in the Tenplo range. Please get in touch for more information.

Metrolinia

Street Furniture

Available in concrete and natural stone, Metrolinia supports the desire to create sociable spaces, where people can relax and spend time. The modules also offer the ability to create a linear or curved configuration to delineate an area and is a more aesthetical option to using bollards or barriers.



Standard colours / materials



Key features



EASY TO CLEAN SURFACE



PERSONALISE TO YOUR SCHEME

	Block 600	Block 1200	Radius Corner Block	Corner Block	X Block	T Block	Bench 600	Bench 1200	Planter	Radius End
Overall height (mm)	456									
Max. length (mm)	600	1200	1200	600	600	600	600	600	600	600
Max. width (mm)	600	600	1200	600	600	600	600	600	600	600
Fixing method	Surface mounted and secured with pins									
Weight (kg)*	382-450	760-900	904-1070	382-450	386-450	383-450	310-340	615-880	234-280	370-450

*Additional products are also available in the Metrolinia range. Please get in touch for more information.
* Weight dependent on material selection.*

PiPencil

Bollard

The distinctive pencil shape of the PiPencil bollard provides a clear and effective form of pedestrian and vehicle demarcation for a wide range of landscapes, particularly outside school premises.

Manufactured out of Ferrocast® and cast around an internal steel core, the PiPencil bollard is extremely robust and designed to perform in the toughest of environments.

The PiPencil bollard is available in a range of colour options to aid creativity in a variety of projects.

Key features



EASY TO CLEAN SURFACE



PERSONALISE TO YOUR SCHEME



INCLUDES REFLECTIVE PANELS (OPTIONAL)



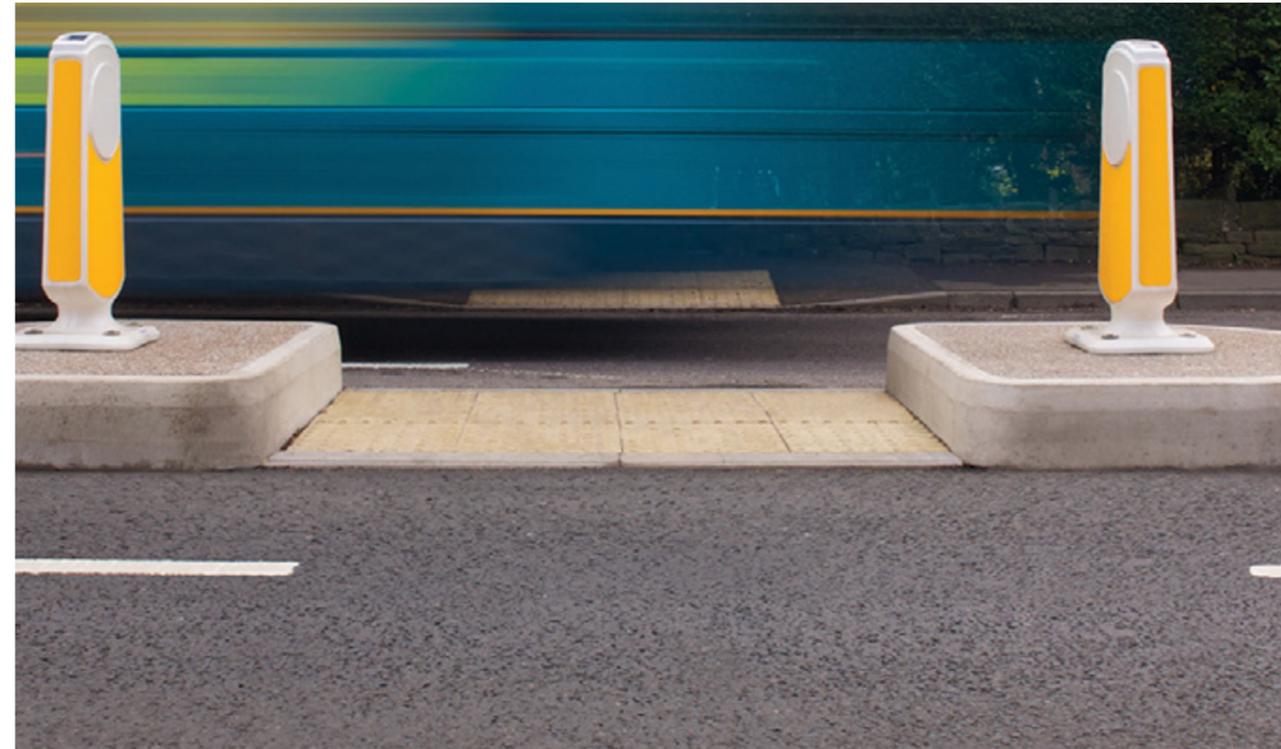
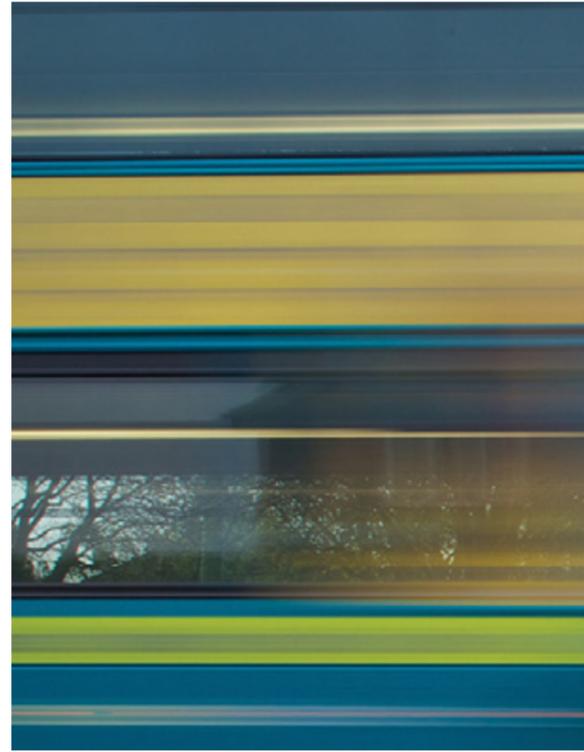
Non-ferrous exterior reduces the need for maintenance

Available in a range of colours with customisable options

Standard colours / materials



Height above ground (mm)	1000
Height inc. root (mm)	1300 (if root fixed)
Diameter (mm)	120
Fixing method	Root fixed, removable or surface mounted
Weight (kg)	19.6-20kg depending on fixing

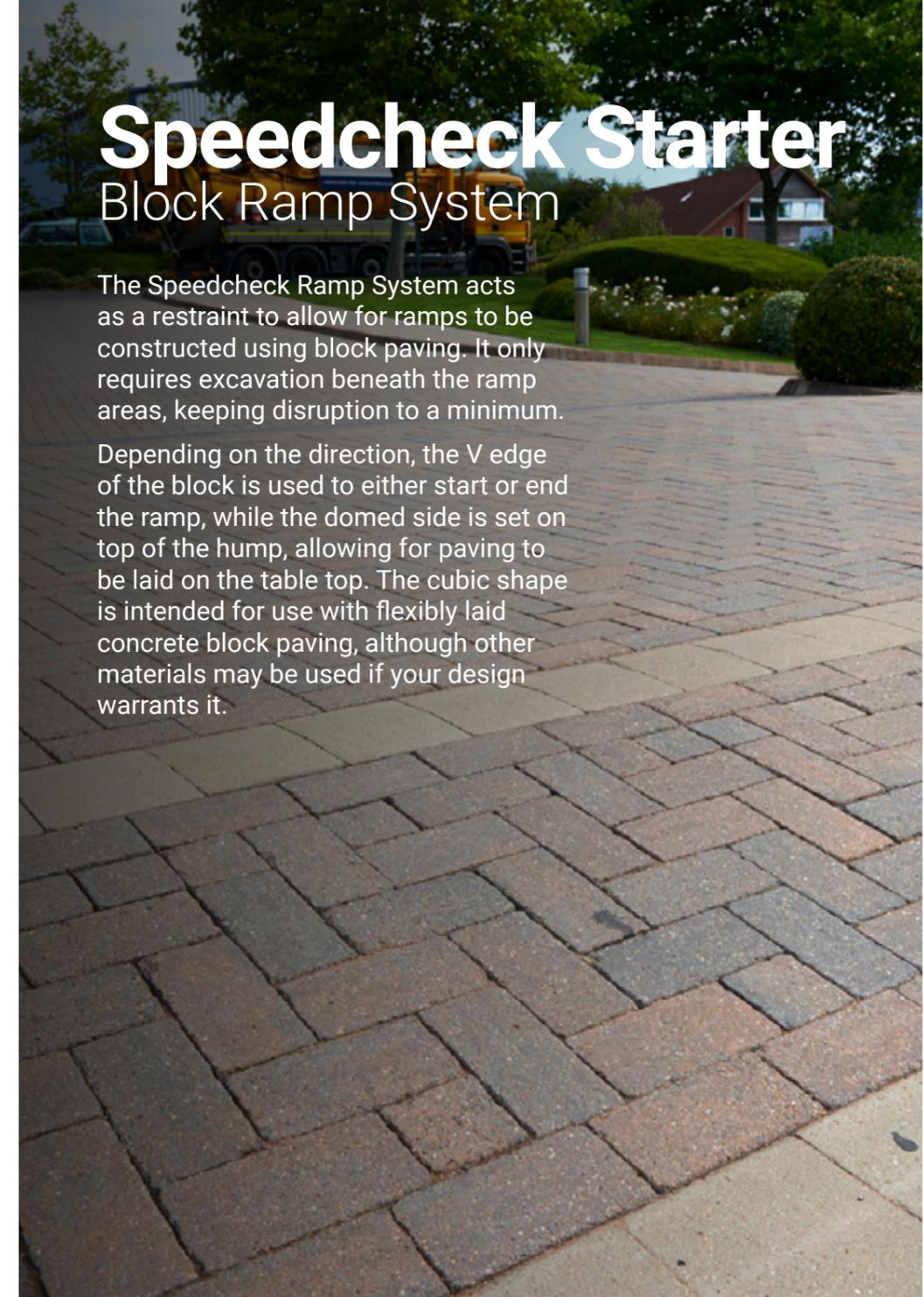


Traffic Calming Solutions

Speedcheck Starter Block Ramp System

The Speedcheck Ramp System acts as a restraint to allow for ramps to be constructed using block paving. It only requires excavation beneath the ramp areas, keeping disruption to a minimum.

Depending on the direction, the V edge of the block is used to either start or end the ramp, while the domed side is set on top of the hump, allowing for paving to be laid on the table top. The cubic shape is intended for use with flexibly laid concrete block paving, although other materials may be used if your design warrants it.



Installation causes minimum disruption to carriageway as excavation is only required beneath the ramp areas



Units can be easily cut on site

Standard colours / materials

Textured surface



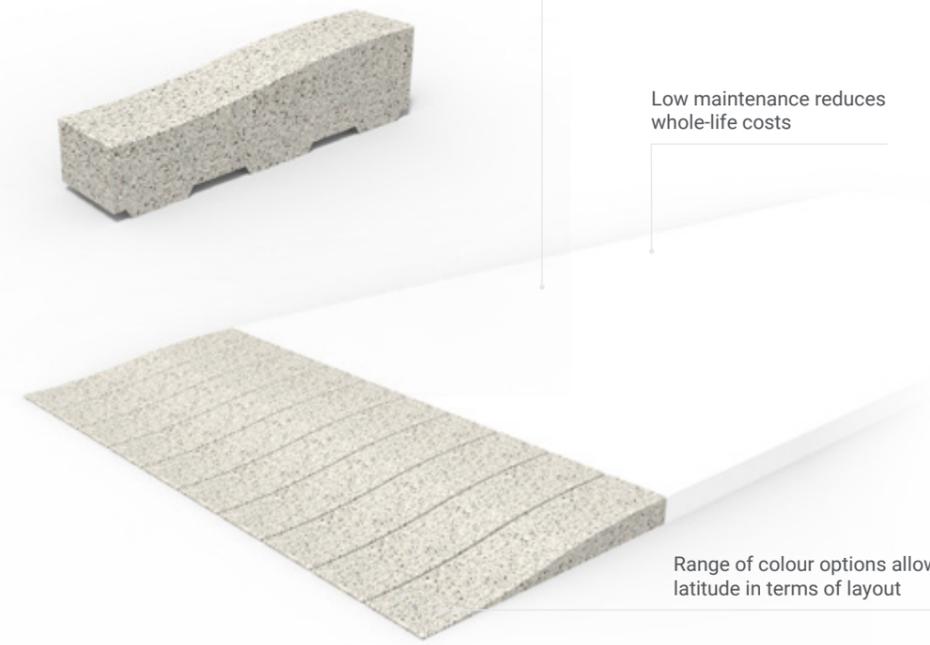
Overall height (mm)	200-220
Length (mm)	200
Width (mm)	200
Weight (kg)	193

Please get in touch if you require information on application, slip resistance or anything else.

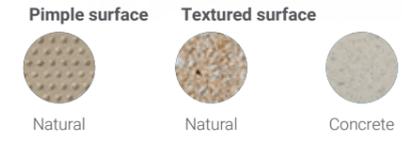
S Ramp System

The S Ramp System is a durable and low maintenance segmental concrete ramp system ideal for traffic calming and speed reduction. With proven efficacy at Manchester Piccadilly Station, the pre-formed sinusoidal profile provides a transition from carriageway to road hump table-top that reduces speed. The profile has excellent ride-over quality not just for cars, but also emergency vehicles and buses.

Standard pieces can be laid kerb-to-kerb, perfect for pedestrian crossings, while you can also achieve a free-standing hump by utilising corner and side pieces.



Standard colours / materials



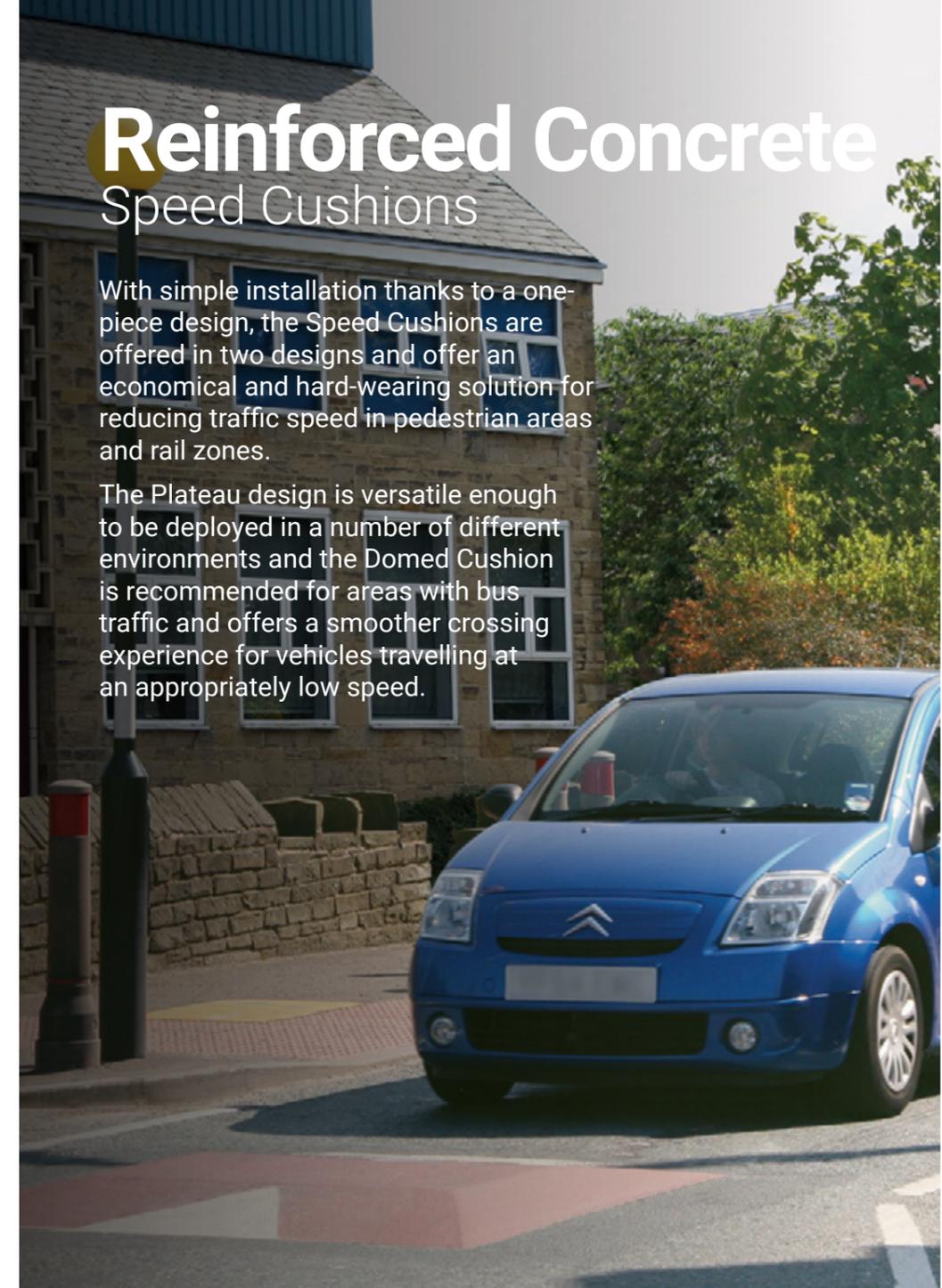
Overall height (mm)	180-255
Length (mm)	914
Width (mm)	200
Weight (kg)	79-105

Please get in touch if you require information on application, slip resistance or anything else.

Reinforced Concrete Speed Cushions

With simple installation thanks to a one-piece design, the Speed Cushions are offered in two designs and offer an economical and hard-wearing solution for reducing traffic speed in pedestrian areas and rail zones.

The Plateau design is versatile enough to be deployed in a number of different environments and the Domed Cushion is recommended for areas with bus traffic and offers a smoother crossing experience for vehicles travelling at an appropriately low speed.



Standard colours / materials



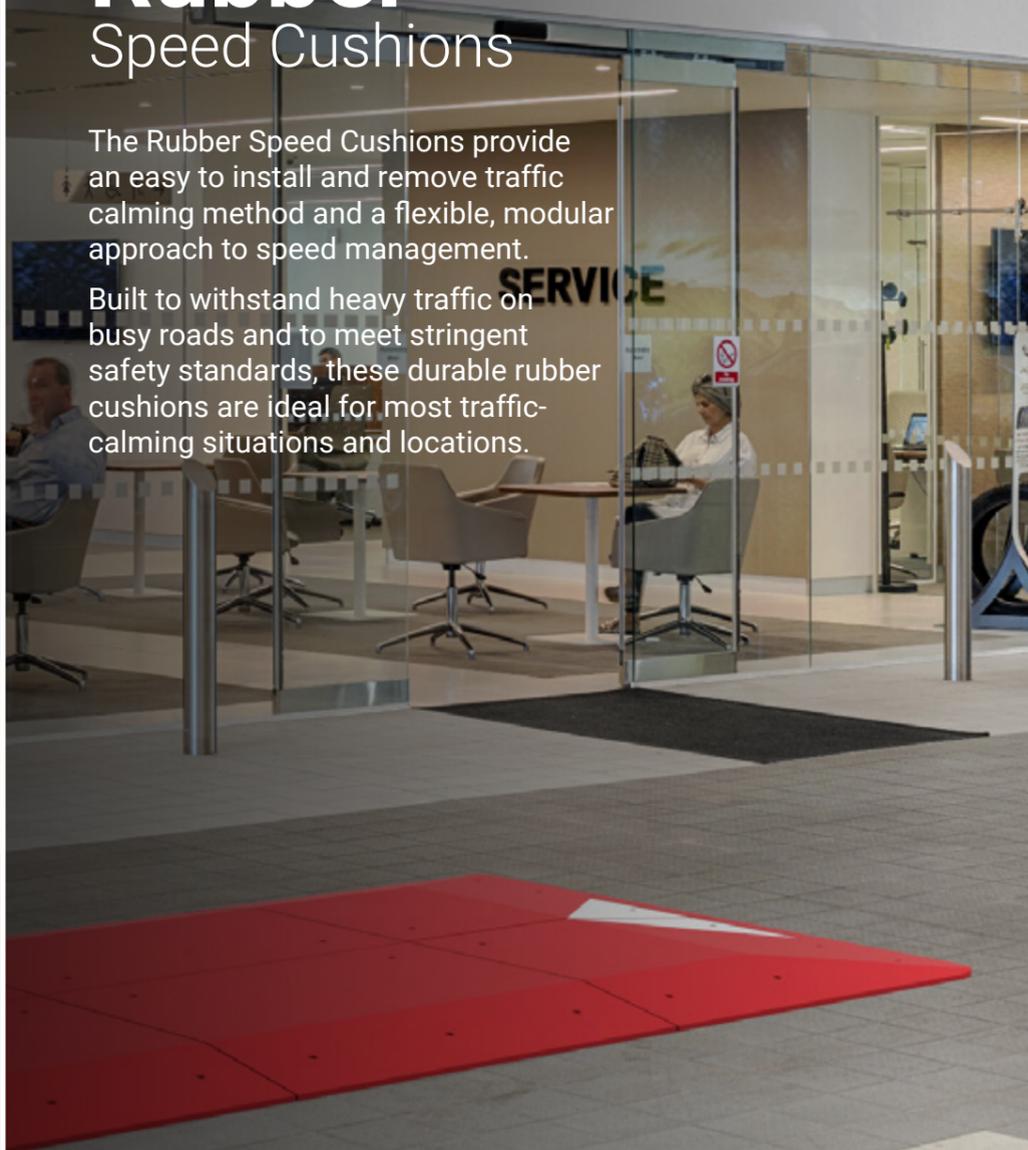
	SP1 Plateau	SP2 Plateau	SP3 Plateau	SP1 Domed
Overall height (mm)	205	205	205	200
Length (mm)	1900			
Width (mm)	1900	1600	1750	1900
Weight (kg)	1450	1245	1365	1470

Please get in touch if you require information on application, slip resistance or anything else.

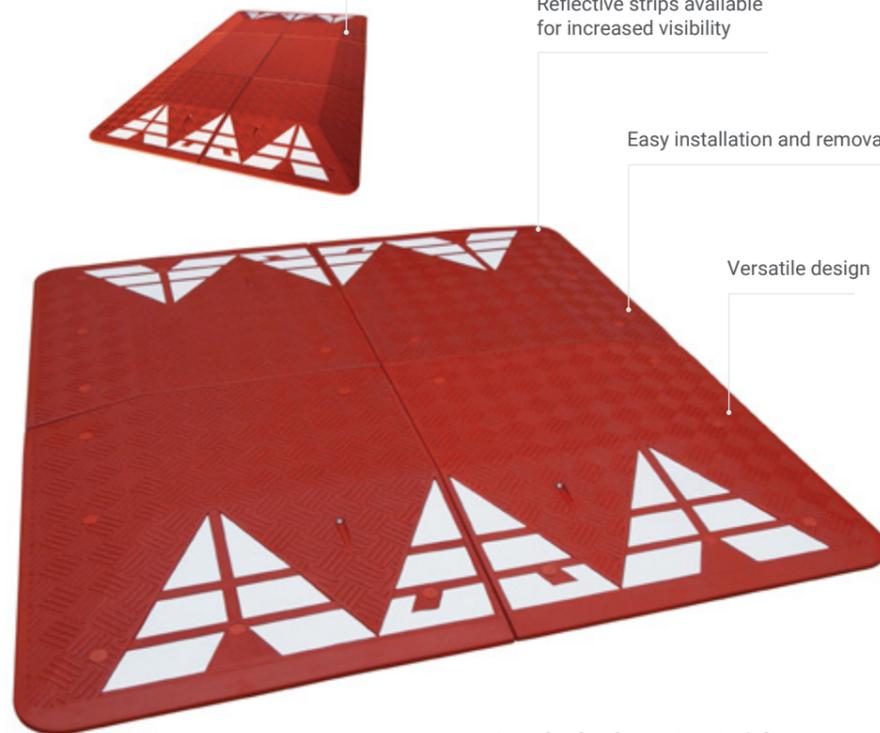
Rubber Speed Cushions

The Rubber Speed Cushions provide an easy to install and remove traffic calming method and a flexible, modular approach to speed management.

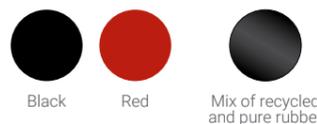
Built to withstand heavy traffic on busy roads and to meet stringent safety standards, these durable rubber cushions are ideal for most traffic-calming situations and locations.



6 part speed cushions also available



Standard colours / materials

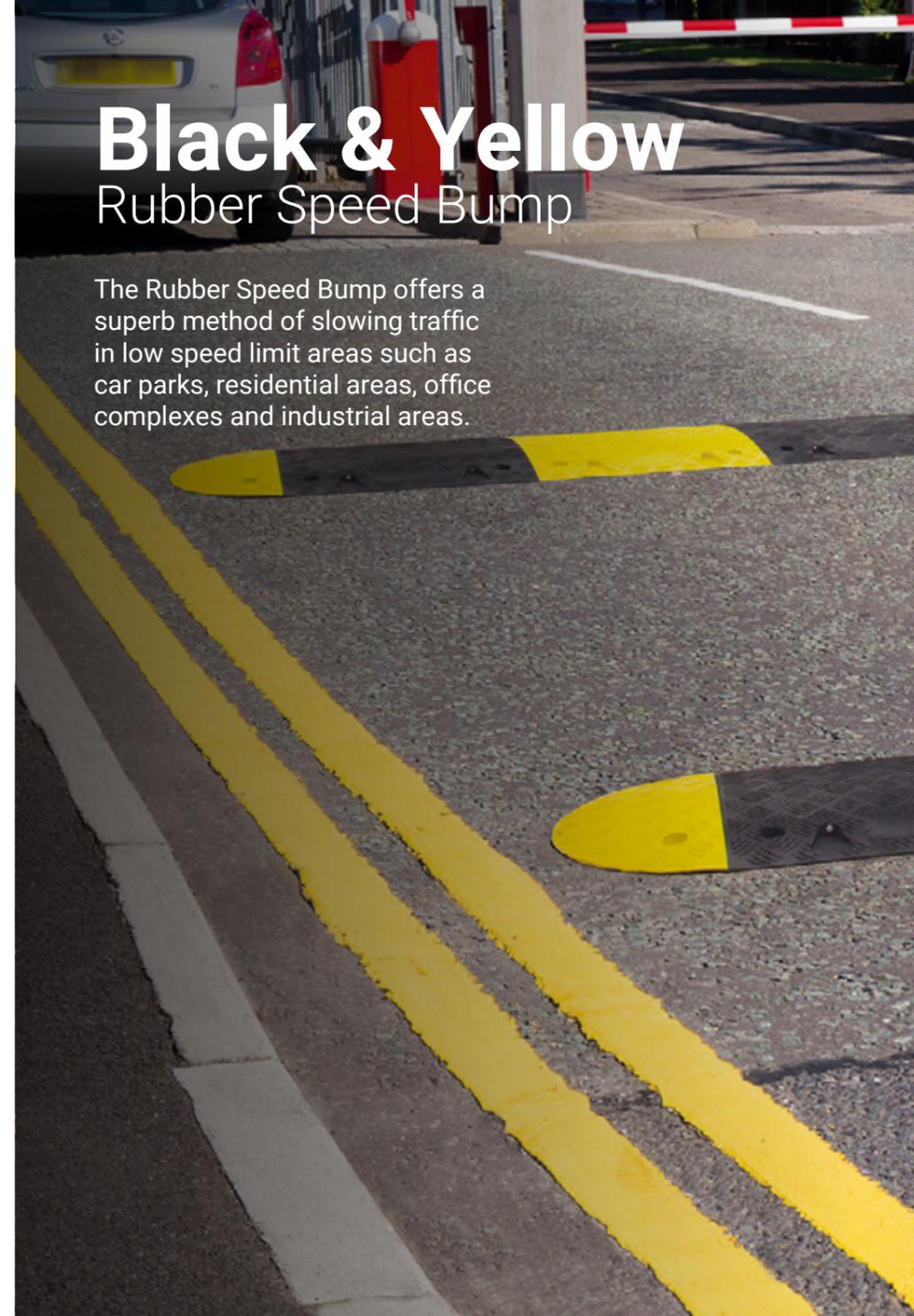


	4 piece	6 piece
Overall height (mm)	65	
Length (mm)	2000	3000
Width (mm)	1800	
Fixing method	Surface mounted and secured with pins	
Weight (kg)	150	250

Please get in touch if you require information on application, slip resistance or anything else.

Black & Yellow Rubber Speed Bump

The Rubber Speed Bump offers a superb method of slowing traffic in low speed limit areas such as car parks, residential areas, office complexes and industrial areas.



Intermediate

Come with 4 cat eyes for better and solid application



Rubber speed bump

Quick and easy to install

Radius end



	Radius end	Intermediate module
Overall height (mm)	45	
Length (mm)	250	500
Width (mm)	350	
Fixing method	Surface mounted and secured with pins	
Weight (kg)	14	

Please get in touch if you require information on application, slip resistance or anything else.

Traffic Islands

Designed to be both discrete and effective, the Concrete Traffic Islands include both permanent and demountable options. While the former is fixed into the ground, the latter can be relocated after disassembly, ideal if you need a temporary island or flexibility within your project.

For narrow roads with high traffic, consider the slim Satellite configuration. It comes with a half-battered kerb profile. In wider roads, the Refuge island can provide part of a useful crossing point for pedestrians and can come with additional illuminated 'Keep Left' bollards (see pages 47-51 for more information).



Satellite version also available



Flexible sizing to suit project's requirements

Refuge Island

Permanent and demountable options available



One piece construction

Standard colours / materials

Textured surface



Natural



Concrete

	Refuge Island			Satellite
	Overall height (mm)	260		
Length (mm)	1200	1800		1500
Width (mm)	1200	1500	1800	610
Weight (kg)	663	959	1587	670

Please get in touch if you require information on application, slip resistance or anything else.

Interlocking Traffic Blocks

The Interlocking Traffic Blocks are designed to aid in the creation of temporary traffic islands and diversions.

The blocks are attached to each other with a simple galvanised bar and bolt system offering an affordable solution with maximum flexibility.



No excavation required

Circular concrete blocks connected by means of galvanised bar attached to a central bolt

Flexible and versatile to allow any size or shape of traffic island to be constructed

Units can be reused ensuring cost effectiveness



Easy installation and removal

Standard colours / materials



Black



Grey



Yellow



White



Self-compacting concrete

Overall height (mm)	150
Length (mm)	225
Width (mm)	300
Fixing method	Surface mounted and secured with pins
Weight (kg)	21.5



Pop-up Parklets

Designed and manufactured in the UK, our bespoke Pop-up Parklet systems provide businesses with an area of additional seating, offering a simple way of creating safe and socially distant dining experiences or spaces to relax.

In addition to the bespoke platform base, our Pop-up Parklets are offered with a range of surface mounted street furniture products and can be fully protected with our temporary Hostile Vehicle Mitigation solutions, if required.

Tailored to your specific design and specification requirements, our Parklets are offered in a range of materials and colour combinations to suit the needs of your project.

Key features



EASY TO CLEAN SURFACE



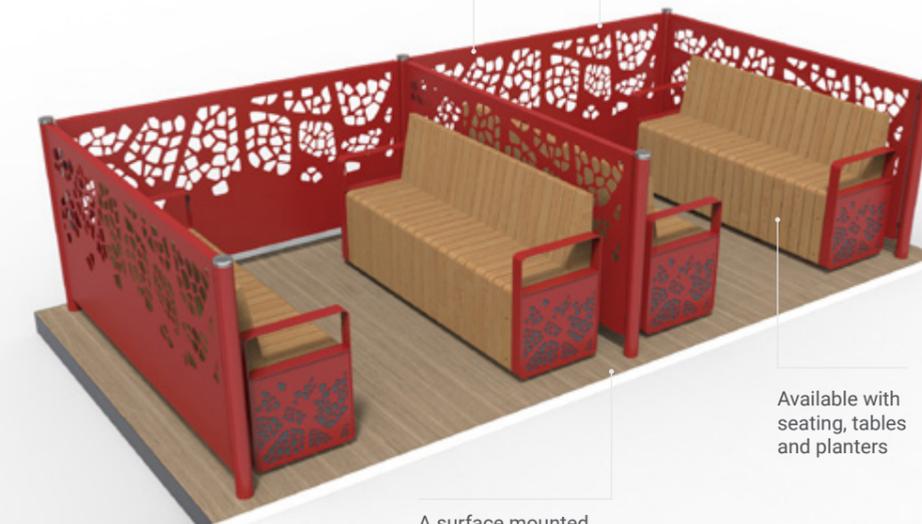
PERSONALISE TO YOUR SCHEME



Can be incorporated with protective RhinoGuard® technology

Bespoke solution

Can be tailored to specific design and specification requirements



Available with seating, tables and planters

A surface mounted or temporary solution

Standard colours / materials



Bespoke colours options available on request

Bespoke specifications to suit your project's requirements. Please get in touch if you require information.

Social Distancing

Zicla® Vectorial® System

The Zicla® Vectorial® System is a bus-boarding platform making it possible to transform urban spaces quickly and effectively, allowing for improved accessibility and safety at bus stops.

The platform allows bus services to run efficiently, without the need of pulling in and out of traffic at bus stops, whilst giving pedestrians and cyclists more space.

The platform can also be used to create Pop-up Parklets and outdoor dining areas, allowing restaurants and bars to widen their facilities outdoors by taking over pavements and road sides to create additional space.

It is formed by modules that fit together, making it possible to construct a range of configurations to suit any given space.

Key features



RECYCLABLE MATERIAL



EASY TO CLEAN SURFACE



PERSONALISE TO YOUR SCHEME



INCLUDES REFLECTIVE PANELS

Front kerb

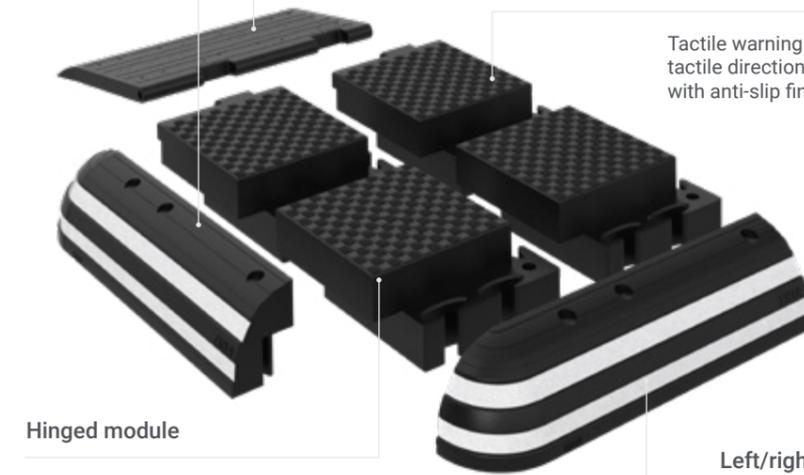
Textured surface with retro-reflecting stripes

Ramp to pavement

Directional tactile surface highly resistant to impact

Main module

Tactile warning surface or tactile directional surface with anti-slip finish



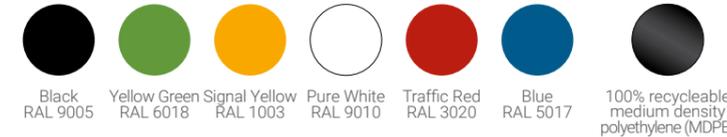
Hinged module

Tactile warning surface or tactile directional surface with anti-slip finish

Left/right kerbs

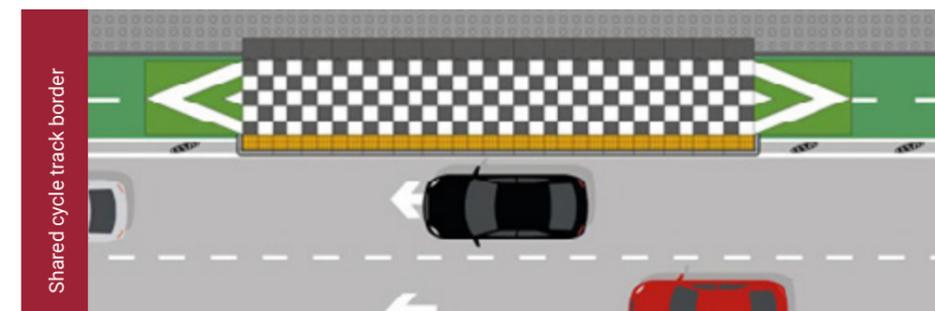
Textured surface with retro-reflecting stripes

Standard colours / materials

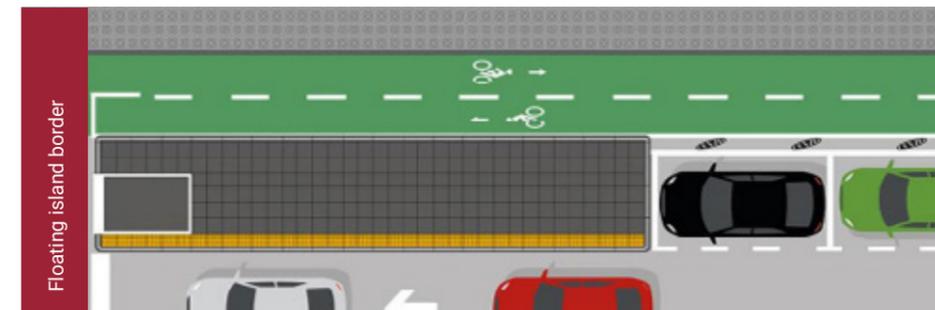


	Front kerbs	Main module	Main module (hinged)	Ramp to pavement	Left/right kerbs
Overall height (mm)	180	180	180	40	180
Max. length (mm)	700	350	367	506	839
Max. width (mm)	139	350	350	700	139
Fixing method	Surface mounted, anchored				
Weight (kg)	10.73	10.7	11.8	18.4	10

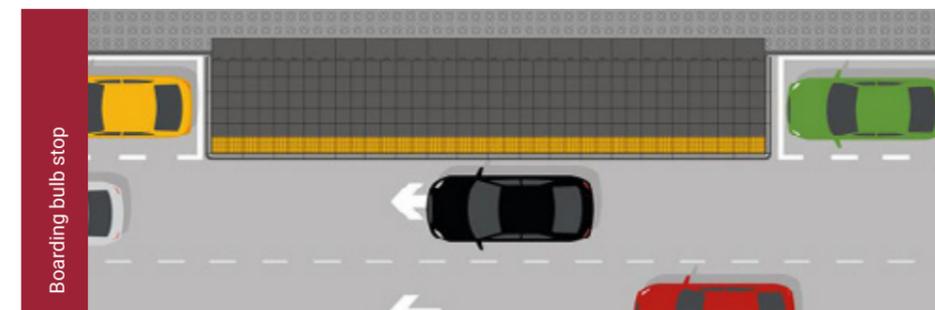
Other available variants



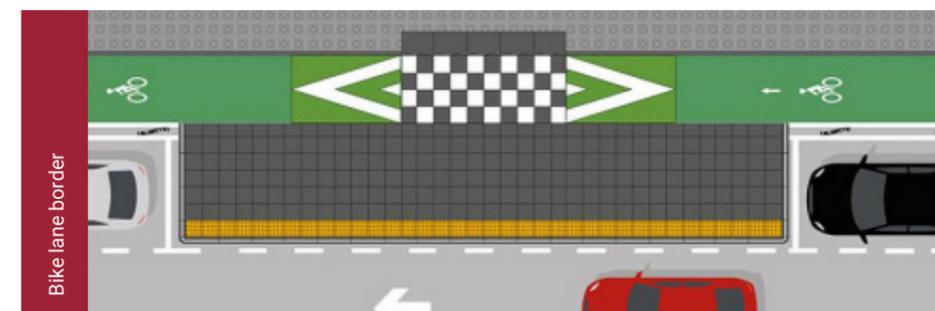
Shared cycle track border



Floating island border



Boarding bulb stop



Bike lane border





**Cycle
Parking &
Storage
Solutions**

Essentials Cycle Stand

The Essentials Cycle Stand is a functional choice of street furniture.

Offered in 304 grade stainless steel in a brushed satin finish, the cycle stand design and materiality is perfect for the demands of retail and business parks, car parks and cycle ways and can accommodate up to 2 cycles per stand.

The stand is available with a choice of fixing methods and with or without a tapping bar to provide an increased lockable area.

Key features



EASY TO CLEAN SURFACE



PERSONALISE TO YOUR SCHEME



Available with or without tapping bar

Can accommodate up to 2 cycles per stand

Standard colours / materials



Stainless steel

Height above ground (mm)	750
Height inc. root (mm)	975
Length (mm)	798
Diameter (mm)	48
Fixing method	Root fixed, sub surface mounted or surface mounted and secured with pins
Weight (kg)	4-11 (dependent on fixing)

Other size options are available. Please get in touch for more information.

Sheffield Cycle Stand

The Sheffield Cycle Stand has a classic design which can accommodate up to 2 cycles.

Offered in stainless steel or steel with the option of powder coating in any RAL colour, the hoop design is an effective storage solution for cycles, ideal for public spaces.

Key features



EASY TO CLEAN SURFACE



PERSONALISE TO YOUR SCHEME



Available with or without tapping bar

Can accommodate up to 2 cycles per stand

Standard colours / materials



Height above ground (mm)	750
Height inc. root (mm)	975
Length (mm)	798
Diameter (mm)	48
Fixing method	Root fixed, sub surface mounted or surface mounted and secured with pins
Weight (kg)	4-11 (dependent on fixing)

Please get in touch to find out about our Ferrocast® Sheffield Cycle Stand and other size options available

Red Route Cycle Stand

The Red Route Cycle Stand is a simple yet functional design which can accommodate up to 2 cycles.

It includes reflective tapes and signs and is manufactured with Ferrocast® or stainless steel, providing a highly durable finish resistant to damage from cycle chains.

Key features



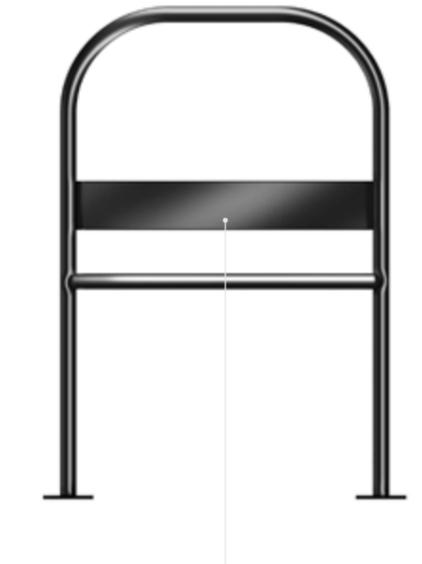
EASY TO CLEAN SURFACE



PERSONALISE TO YOUR SCHEME



Reflective tapes and signage



Tapping bar optional

Standard colours / materials



Height above ground (mm)	850
Height inc. root (mm)	1150
Length (mm)	750
Diameter (mm)	50
Fixing method	Root fixed
Weight (kg)	10

Other size options are available. Please get in touch for more information.

Raval Cycle Stand

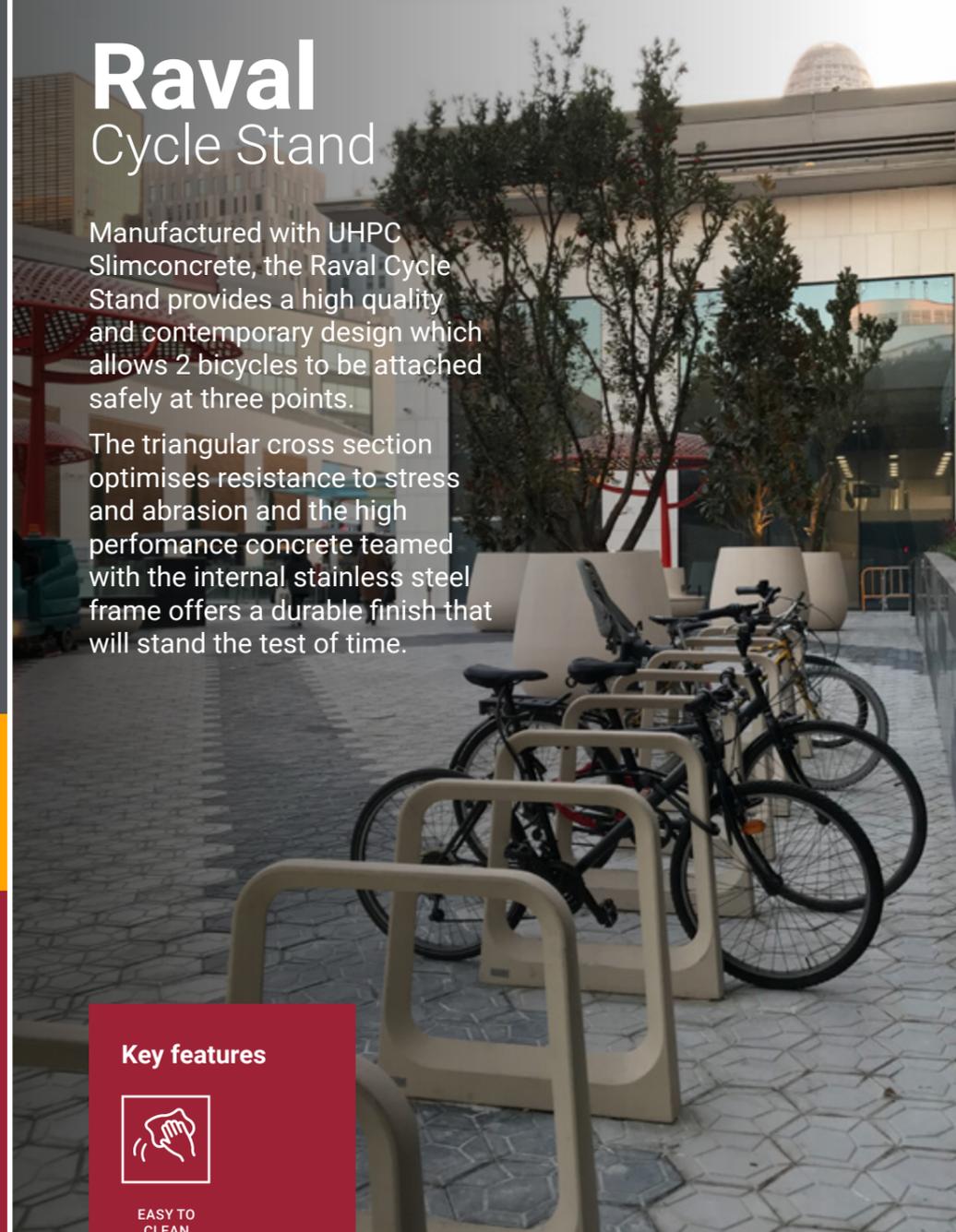
Manufactured with UHPC Slimconcrete, the Raval Cycle Stand provides a high quality and contemporary design which allows 2 bicycles to be attached safely at three points.

The triangular cross section optimises resistance to stress and abrasion and the high performance concrete teamed with the internal stainless steel frame offers a durable finish that will stand the test of time.

Key features



EASY TO CLEAN SURFACE



Sleek and contemporary design

Stainless steel core provides added strength



Standard colours / materials



Grey White Beige UHPC slim concrete reinforced with stainless steel

Height above ground (mm)	780
Height inc. root (mm)	990
Length (mm)	760
Width (mm)	120
Fixing method	Surface mounted and secured with pins
Weight (kg)	40

RCS 5 Wall-Mounted Cycle Stand

The front wheel 'clip' style of the RCS 5 Cycle Stand offers a neat solution for bike parking requirements.

Perfect where space is at a premium, the RCS 5 enables riders to leave their bikes securely and safely.

Key features



EASY TO CLEAN SURFACE



PERSONALISE TO YOUR SCHEME



Space saving solution

Standard colours / materials



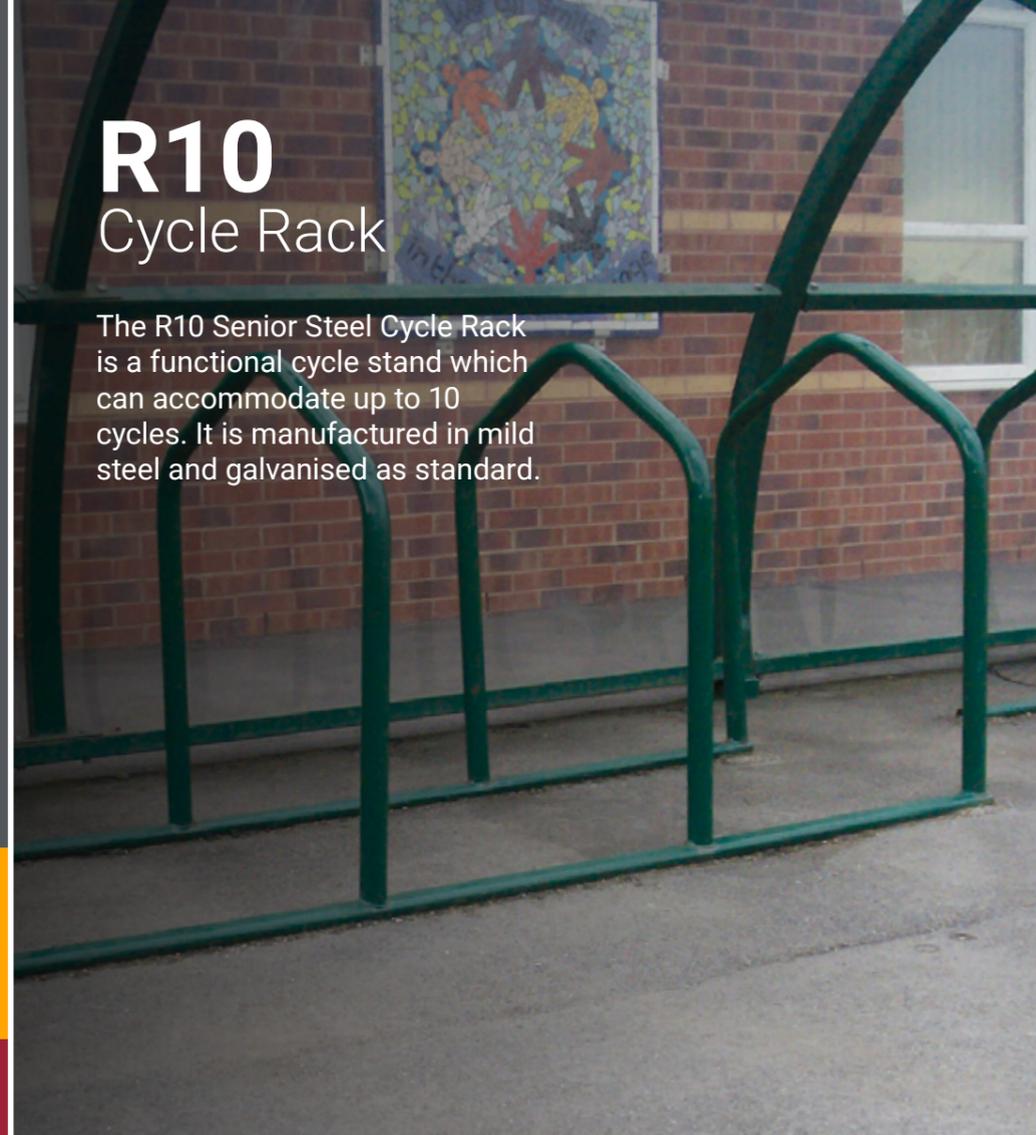
Pure White RAL 9010 Agate Grey RAL 7038 Telegrey 1 RAL 7045 Grey Aluminium RAL 9007 White Aluminium RAL 9006 Black RAL 9005 Steel with the option of powder coating in any standard RAL

Gentian Blue RAL 5010 Moss Green RAL 6005 Yellow Green RAL 6018 Traffic Yellow RAL 1023 Traffic Red RAL 3020 Sepia Brown RAL 8014

Hoop height (mm)	316
Depth (mm)	204
Fixing method	Secured to wall with pins
Weight (kg)	3

R10 Cycle Rack

The R10 Senior Steel Cycle Rack is a functional cycle stand which can accommodate up to 10 cycles. It is manufactured in mild steel and galvanised as standard.



Key features



EASY TO CLEAN SURFACE



PERSONALISE TO YOUR SCHEME



Can accommodate up to 10 cycles



Standard colours / materials



Height above ground (mm)	950
Height inc. root (mm)	1250
Length (mm)	3000
Width (mm)	760
Fixing method	Root fixed into concrete foundation
Weight (kg)	58

Two Tier Cycle Rack

The Two Tier Cycle Rack is an ideal solution for environments with limited space looking to create optimum and flexible cycle parking. Offering multiple locking points to the wheel and frame, the system can securely accommodate different styles of bicycle and gives users peace of mind.



Key features



EASY TO CLEAN SURFACE

Space saving parking



Adjustable bike spacing using sliding guard rails

Gas spring lift aid



Multiple locking points for secure parking

Standard colours / materials



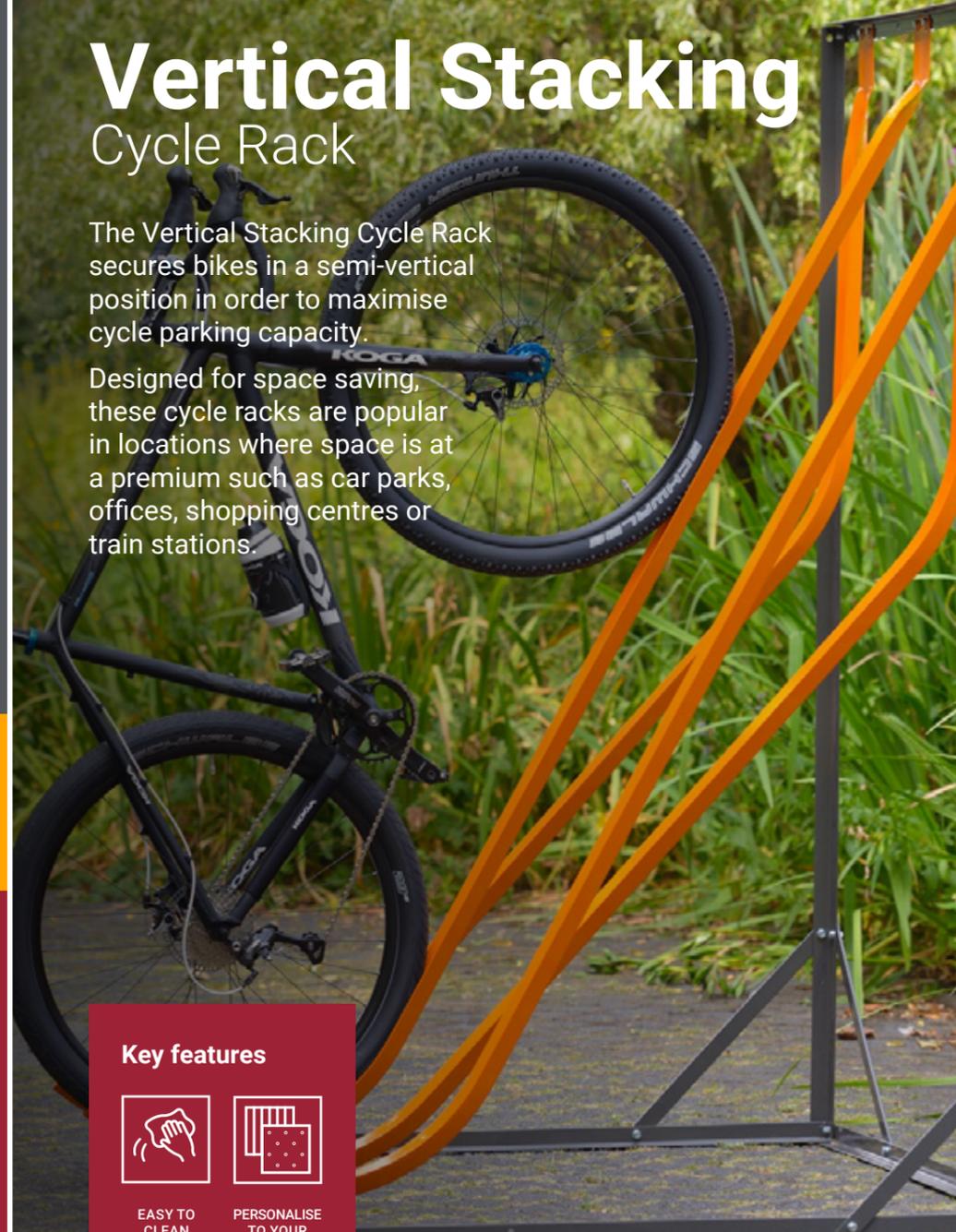
	4 Cycle Storage	6 Cycle Storage	8 Cycle Storage
Overall height (mm)	1400		
Length (mm)	1200	1700	2200
Width (mm)	2215		
Fixing method	Surface mounted and secured with pins		
Weight (kg)	180	270	360

Other size options are available. Please get in touch for more information.

Vertical Stacking Cycle Rack

The Vertical Stacking Cycle Rack secures bikes in a semi-vertical position in order to maximise cycle parking capacity.

Designed for space saving, these cycle racks are popular in locations where space is at a premium such as car parks, offices, shopping centres or train stations.



Key features

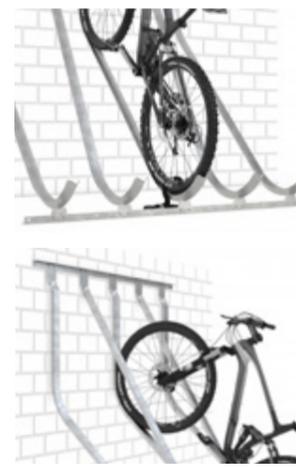


EASY TO CLEAN SURFACE



PERSONALISE TO YOUR SCHEME

Space saving design



Standard colours / materials

Pure White RAL 9010	Agate Grey RAL 7038	Telegrey 1 RAL 7045	Grey Aluminium RAL 9007	White Aluminium RAL 9006	Black RAL 9005	Steel with the option of powder coating in any standard RAL
Gentian Blue RAL 5010	Moss Green RAL 6005	Yellow Green RAL 6018	Traffic Yellow RAL 1023	Traffic Red RAL 3020	Sepia Brown RAL 8014	

	4 Cycle Storage	5 Cycle Storage	6 Cycle Storage
Overall height (mm)	2010		
Length (mm)	1400	1750	2100
Width (mm)	1467		
Fixing method	Surface mounted and wall mounted and scured with pins		
Weight (kg)	26	32	37

Scooter Rack

The Scooter Rack provides a unique and compact storage solution for scooters, ideal for primary schools or skate parks.



Key features



EASY TO CLEAN SURFACE



PERSONALISE TO YOUR SCHEME



Customisable to your scheme with a range of colour options available

Standard colours / materials

Pure White RAL 9010	Agate Grey RAL 7038	Telegrey 1 RAL 7045	Grey Aluminium RAL 9007	White Aluminium RAL 9006	Black RAL 9005	Steel with the option of powder coating in any standard RAL
Gentian Blue RAL 5010	Moss Green RAL 6005	Yellow Green RAL 6018	Traffic Yellow RAL 1023	Traffic Red RAL 3020	Sepia Brown RAL 8014	

10 Scooter Storage	
Height above ground (mm)	800
Height inc. root (mm)	1100
Length (mm)	2033
Width (mm)	500
Diameter (mm)	48.3
Fixing method	Root fixed into concrete foundation
Weight (kg)	36

Other size options are available. Please get in touch for more information.

Velozone Cycle Shelter

The Velozone Cycle Shelter is available as a single shelter or as multiple modules for storing 10 to 300 cycles. It can be configured into a double sided shelter or a secure compound.

Adjustable feet are supplied as standard to allow for fixing on uneven ground within certain tolerances.

Velozone is manufactured from structural grade mild steel which can be supplied powder coated in a range of RAL colours to suit your scheme's requirements.

Key features



EASY TO CLEAN SURFACE



PERSONALISE TO YOUR SCHEME



Standard colours / materials



Height above ground (mm)	2161
Height inc. root (mm)	2461
Length (mm)	4000
Width (mm)	1910
Fixing method	Root fixed in to a concrete foundation
Weight (kg)	300

The R10 cycle rack for securing cycles is recommended for use with Velozone. Please see page 40 for more information.
The Velozone is also available in other sizes. Please get in touch for more information.

Bykebin Cycle Lock

In locations where cycles could be exposed to the elements or a target of opportunist criminals, there is a need for a level of protection that exceeds that of a conventional cycle stand.

Perfect for use in public areas such as stations, municipal buildings, shopping centres and places of higher education, the Bykebin offers a secure and lockable solution for bikes.

Key features



RECYCLABLE MATERIAL



EASY TO CLEAN SURFACE



PERSONALISE TO YOUR SCHEME



Safe and secure lockable storage point



Standard colours / materials



Overall height (mm)	1250
Width (mm)	960
Depth (mm)	1650
Fixing method	Surface mounted and fixed with bolts to use with pre-drilled brackets on floor of bin
Bike capacity	1 x adult & 1 x child bike



Weebolflex Bollard

The Weebolflex bollard is capable of delivering resistance against impact. The flexible design and robust material allows the bollard to return to an upright position whilst reducing the likelihood of damage and the need of replacement.

Available with a number of recessed graphics and reflective banding, the Weebolflex is low maintenance and offers quick and easy installation.

Key features



RECYCLABLE MATERIAL



EASY TO CLEAN SURFACE

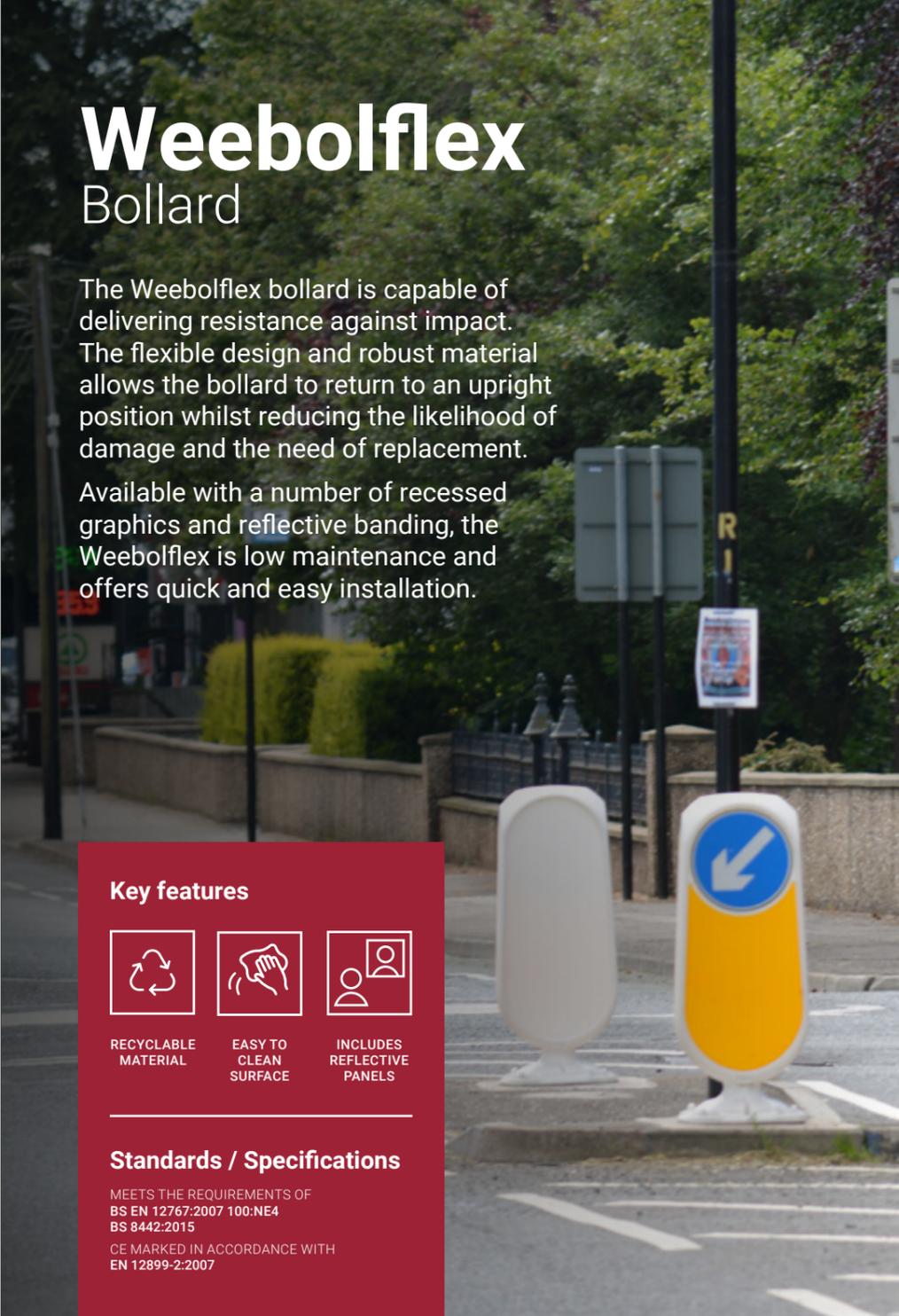


INCLUDES REFLECTIVE PANELS

Standards / Specifications

MEETS THE REQUIREMENTS OF
BS EN 12767:2007 100:NE4
BS 8442:2015

CE MARKED IN ACCORDANCE WITH
EN 12899-2:2007



Overall height (mm)	980
Max. width (mm)	399
Max. depth (mm)	126
Base width x depth (mm)	390 x 390
Fixing method	Surface mounted & fixed with bolts (Other fixing options also available)
Weight (kg)	8
Signage options	Keep left traffic sign supplied as standard but other options available on request
Signage diameter (mm)	300

Supplied by Simmonsigns Ltd and distributed by Marshalls Plc

Traffic Management Solutions

Contour Bollard

The Contour bollard is low maintenance, easy to fit and proves to be an industry choice, particularly on roads where high visibility is key.

Designed to resist tearing, the bollard is capable of returning to its original form following impact. The flexible design can fold internally, minimising risk of vehicular snagging and allowing the bollard to continue serving its purpose with little to no distortion.



Key features



RECYCLABLE MATERIAL



EASY TO CLEAN SURFACE



INCLUDES REFLECTIVE PANELS

Standards / Specifications

MEETS THE REQUIREMENTS OF
BS EN 12767:2007 100:NE4
BS 8442:2015

CE MARKED IN ACCORDANCE WITH
EN 12899-2:2007



Signage

Choose from a wide range of standard traffic signs

UV stable high quality polymers resist fading

Allows body to reform after impact

Can be fitted to most industry standard base plates

Standard colours / materials



White



100% recyclable plastic

Overall height (mm)	1240
Max. width (mm)	680
Max. depth (mm)	350
Base width x depth (mm)	350 x 350
Fixing method	Surface mounted & fixed with bolts (Other fixing options also available)
Weight (kg)	9
Signage options	Keep left traffic sign supplied as standard but other options available on request
Signage diameter (mm)	600

Supplied by Simmons Signs Ltd and distributed by Marshalls Plc

Simbol Bollard

Manufactured using a bespoke, recyclable polymer, the Simbol bollard has been designed to resist tearing and reforms with little or no distortion, even after multiple impacts. The flexible design reduces the likelihood of damage or injury and the need of replacement.

The multi fixing system allows direct mounting to a flat surface and can be fitted to most industry standard bases. Its low porosity easy clean surface offers superb visibility, increasing awareness for both the motorist and cyclist even during dark or rainy weather conditions.



Signage

Choose from a wide range of standard traffic signs

One-piece moulding

Allows body to reform after impact

Standard colours / materials



White



100% recyclable plastic

Key features



RECYCLABLE MATERIAL



EASY TO CLEAN SURFACE



INCLUDES REFLECTIVE PANELS

Standards / Specifications

MEETS THE REQUIREMENTS OF
BS EN 12899:2007

CE MARKED IN ACCORDANCE WITH
EN 12899-2:2007

Overall height (mm)	920
Max. width (mm)	350
Max. depth (mm)	350
Fixing method	Surface mounted & fixed with bolts (Other fixing options also available)
Weight (kg)	7
Signage options	Keep left traffic sign supplied as standard but other options available on request
Signage diameter (mm)	270

Supplied by Simmons Signs Ltd and distributed by Marshalls Plc

Keep Left Night Owl Bollards

The Night Owl Bollards are available in illuminated and non-illuminated formats. They are easy to install and can be removed in under a minute, limiting disruption and inconvenience to road users and danger to highway contractors.

The durable and low maintenance solutions are manufactured using recyclable plastic and the reflex base material combined with the rigid polyethylene sign ensures that the bollard will withstand multiple impacts and return to an upright position without damage; thereby saving on expensive replacement costs.



Key features



RECYCLABLE MATERIAL



EASY TO CLEAN SURFACE



PERSONALISE TO YOUR SCHEME



INCLUDES REFLECTIVE PANELS

Standards / Specifications

MEETS THE REQUIREMENTS OF
BS EN 12767
BS 8442



Illuminated One-Piece Bollard



Low running cost

Up to 75% more energy efficient than conventional fluorescent illuminated systems

Single- or double-sided options available

One-piece moulding

Standard colours / materials

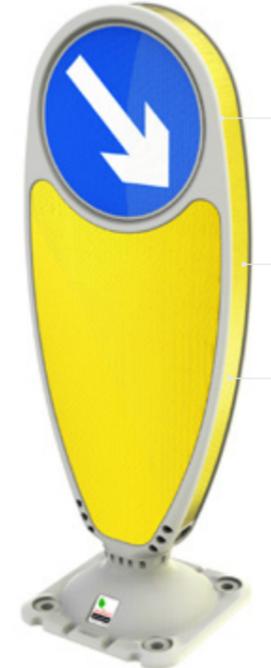


White
100% recyclable medium density polyethylene (MDPE)

Overall height (mm)	1023.5
Max. width (mm)	395
Max. depth (mm)	110
Base width x depth (mm)	320 x 320
Fixing method	Attach to in-ground duct box Retrofit to other base boxes with adaptor plates
Weight (kg)	4.6
Signage options	Keep left traffic sign supplied as standard but other options available on request
Signage diameter (mm)	300



Non-Illuminated One-Piece Bollard



Unique dome shaped base provides a reliable bounce back performance

Single- or double-sided options available

One-piece moulding

Standard colours / materials



White
Black
100% recyclable medium density polyethylene (MDPE)

Overall height (mm)	1037
Max. width (mm)	395
Max. depth (mm)	110
Base width x depth (mm)	320 x 320
Fixing method	Concrete-in; surface mount Retrofit to existing base boxes with adaptor plates
Weight (kg)	6.5
Signage options	Keep left traffic sign supplied as standard but other options available on request
Signage diameter (mm)	300



Non-Illuminated Two-Piece Bollard



Unique dome shaped base provides a reliable bounce back performance

Single- or double-sided options available

Two-piece moulding

Standard colours / materials



White
Black
100% recyclable medium density polyethylene (MDPE)



Overall height (mm)	1037
Max. width (mm)	395
Max. depth (mm)	110
Base width x depth (mm)	320 x 320
Fixing method	Concrete-in; surface mount Retrofit to existing base boxes with adaptor plates
Weight (kg)	6.5
Signage options	Keep left traffic sign supplied as standard but other options available on request
Signage diameter (mm)	300

Heritage Bollards

The traditional design of the Heritage bollards offer the perfect solution for local authorities and councils. They are DD compliant and suitable for traffic management and traffic calming schemes in busy locations or cordoning off restricted areas or one way streets.

All variations are customisable with a choice of colours, with optional reflective banding available on the Heritage 150 and Heritage 150 Visibol.

Key features



RECYCLABLE MATERIAL



EASY TO CLEAN SURFACE



PERSONALISE TO YOUR SCHEME



INCLUDES REFLECTIVE PANELS (150 & 150 VISIBOL ONLY)

Standards / Specifications

MEETS THE REQUIREMENTS OF BS 2782

ALL HERITAGE BOLLARDS CAN BE MANUFACTURED IN ADDITIONAL COLOURS TO MATCH YOUR SCHEME OR SPECIFICATIONS. GET IN TOUCH FOR MORE INFORMATION.



Heritage 150 Bollard



One groove for optional reflective panelling

100% recyclable

Standard colours / materials



Black

Other colours available on request



Moulded polyethylene (PE)

Overall height (mm)	1024
Diameter (mm)	171
Fixing method	Surface mounted & fixed with bolts (Other fixing options also available)
Weight (kg)	4
Signage options	Please see pages 56-57 for more information



Heritage 150 Visibol Bollard



Four grooves for optional reflective panelling

100% recyclable

Standard colours / materials



Black

Other colours available on request



Moulded polyethylene (PE)

Overall height (mm)	1024
Diameter (mm)	171
Fixing method	Surface mounted & fixed with bolts (Other fixing options also available)
Weight (kg)	4
Signage options	Please see pages 56-57 for more information



Heritage Decorative Bollard



100% recyclable

Standard colours / materials



Black

Other colours available on request



Moulded polyethylene (PE)

Overall height (mm)	921
Diameter (mm)	171
Fixing method	Surface mounted & fixed with bolts (Other fixing options also available)
Weight (kg)	4
Signage options	Please see pages 56-57 for more information

Sentinel Bollards

The Sentinel range offers a modern, sleek choice for demarcation of a pedestrian or parking area for urban, retail and industrial schemes.

Manufactured using polyethylene, the bollards are durable and don't rust offering a practical and maintenance free life.

All variations are DDA compliant and customisable with a choice of colours.

Key features



RECYCLABLE MATERIAL



EASY TO CLEAN SURFACE



PERSONALISE TO YOUR SCHEME



INCLUDES REFLECTIVE PANELS (150 & 150 VISIBOL ONLY)

Standards / Specifications

MEETS THE REQUIREMENTS OF BS 2782

ALL SENTINEL BOLLARDS CAN BE MANUFACTURED IN ADDITIONAL COLOURS TO MATCH YOUR SCHEME OR SPECIFICATIONS. GET IN TOUCH FOR MORE INFORMATION.



Sentinel 150 Bollard



One groove for optional reflective panelling

100% recyclable

Standard colours / materials



Black

Other colours available on request



Moulded polyethylene (PE)

Overall height (mm)	1030
Diameter (mm)	166
Fixing method	Surface mounted & fixed with bolts (Other fixing options also available)
Weight (kg)	4
Signage options	Please see pages 56-57 for more information



Sentinel 150 Visibol Bollard



Four grooves for optional reflective panelling

100% recyclable

Standard colours / materials



Black

Other colours available on request



Moulded polyethylene (PE)

Overall height (mm)	1030
Diameter (mm)	166
Fixing method	Surface mounted & fixed with bolts (Other fixing options also available)
Weight (kg)	4
Signage options	Please see pages 56-57 for more information



Sentinel Decorative Bollard



100% recyclable

Standard colours / materials



Black

Other colours available on request



Moulded polyethylene (PE)

Overall height (mm)	926
Diameter (mm)	166
Fixing method	Surface mounted & fixed with bolts (Other fixing options also available)
Weight (kg)	4
Signage options	Please see pages 56-57 for more information

Linsign Bollards

The Linsign family brings together the Heritage and Sentinel ranges with the addition of signage.

The Linsign 150 comes with an unobtrusive 150mm diameter sign face, suitable for marking cycle ways or parking spaces.

Both the Linsign 230 and 300 ranges are DDA compliant and suited for use in urban environments, or traffic calming schemes. The Linsign 230 has a rectangular sign face and the Linsign 300 has a circular 300mm diameter sign face. These make the ideal choice for demarcation of parking and pedestrian areas in urban, retail and industrial locations.

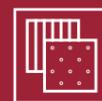
Key features



RECYCLABLE MATERIAL



EASY TO CLEAN SURFACE



PERSONALISE TO YOUR SCHEME



INCLUDES REFLECTIVE PANELS (150 & 150 VISIBOL ONLY)

Standards / Specifications

MEETS THE REQUIREMENTS OF BS 2782

SIGN FACES CE MARKED IN ACCORDANCE WITH EN 12899-2:2007



Linsign 300 Bollard

Heritage 300



Heritage 300 Visibol



Sentinel 300

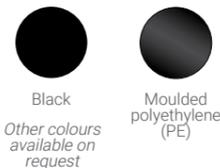


Sentinel 300 Visibol



Maintenance free and will not rust

Standard colours / materials



Black
Other colours available on request

Moulded polyethylene (PE)

	Heritage 300	Heritage 300 Visibol	Sentinel 300	Sentinel 300 Visibol
Overall height (mm)	1419			
Diameter (mm)	364			
Fixing method	Surface mounted & fixed with bolts (Other fixing options also available)			
Weight (kg)	4.75			
Signage options	Range of signage options available. Please get in touch for more information			
Signage diameter (mm)	300			



Linsign 230 Bollard

Heritage 230



Heritage 230 Visibol



Sentinel 230

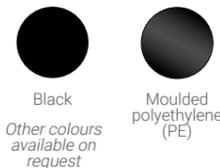


Sentinel 230 Visibol



Maintenance free and will not rust

Standard colours / materials



Black
Other colours available on request

Moulded polyethylene (PE)

	Heritage 230	Heritage 230 Visibol	Sentinel 230	Sentinel 230 Visibol
Overall height (mm)	1352			
Diameter (mm)	339			
Fixing method	Surface mounted & fixed with bolts (Other fixing options also available)			
Weight (kg)	4.75			
Signage options	Range of signage options available. Please get in touch for more information			
Signage diameter (mm)	230			



Linsign 150 Bollard

Heritage 150



Heritage 150 Visibol



Sentinel 150



Sentinel 150 Visibol

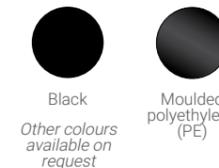


Sentinel 150 Decorative



Maintenance free and will not rust

Standard colours / materials



Black
Other colours available on request

Moulded polyethylene (PE)

	Heritage 150	Heritage 150 Visibol	Sentinel 150	Sentinel 150 Visibol	Sentinel 150 Decorative
Overall height (mm)	1098				
Diameter (mm)	195				
Fixing method	Surface mounted & fixed with bolts (Other fixing options also available)				
Weight (kg)	4				4.5
Signage options	Range of signage options available. Please get in touch for more information				
Signage diameter (mm)	150				

Rhino Supermarket Bollard

The Rhino Supermarket bollard offers excellent strength, visibility and practicality and is perfect for large car parks or for lane delineation.

The Supermarket bollard boasts resistance to chipping, corrosion and high abrasion and offers a maintenance-free life span.

Key features



RECYCLABLE MATERIAL



EASY TO CLEAN SURFACE



PERSONALISE TO YOUR SCHEME



INCLUDES REFLECTIVE PANELS



Three grooves for optional reflective panelling

Durable material

Standard colours / materials



Pure White RAL 9010 Agate Grey RAL 7038 Telegrey 1 RAL 7045 Grey Aluminium RAL 9007

Rotationally moulded plastic



White Aluminium RAL 9006 Black RAL 9005 Gentian Blue RAL 5010 Moss Green RAL 6005



Yellow Green RAL 6018 Traffic Yellow RAL 1023 Traffic Red 3020 Sepia Brown RAL 8014

Overall height (mm)	1000
Diameter (mm)	100
Fixing method	Root fixed into concrete foundation
Weight (kg)	7

Lismore Bollard

The Lismore static bollard is ideal for area demarcation.

Manufactured from Recycled Plastic Composite (RPC), the material offers a durable structure whilst requiring little maintenance. The plastic provides a non-porous finish which is not subject to rot or algae growth and therefore suitable for all weather conditions.

The inherent flexibility of the material makes this product particularly suited for car parking areas and will withstand occasional bumper collisions from low speed impacts.

Key features



RECYCLABLE MATERIAL



EASY TO CLEAN SURFACE



INCLUDES REFLECTIVE PANELS



Alternative design available with 3 reflective bands



Standard colours / materials



Black

Brown

Recycled plastic composite

Height above ground (mm)	1100	
Height inc. root (mm)	1500	
Diameter (mm)	120	150
Fixing method	Root fixed into concrete foundation	
Weight (kg)	14.58	23.56



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